# ATLAS DINÁMICO DE ENVOLVENTES

**#**ATLAS DE COMPORTAMIENTO ENERGÉTICO EN RÉGIMEN DINÁMICO DE ENVOLVENTES CONSTRUCTIVAS

**Adec**

AGENCIA para EL DESARROLLO ECONÓMICO de LA CIUDAD de CÓRDOBA

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# I
# MARCO TEORICO

# PROYECTO DE INVESTIGACION

- ATLAS DINAMICO DE ENVOLVENTES
- ATLAS DE COMPORTAMIENTO ENERGETICO EN REGIMEN DINAMICO DE ENVOLVENTES CONSTRUCTIVAS

## INTRODUCCION

El presente trabajo se dirige a la medición y sistematización del comportamiento energético en régimen dinámico de las envolventes utilizadas en las edificaciones en el ámbito de la producción nacional.

El marco conceptual de desarrollo del trabajo incluye las siguientes etapas metodológicas:

1. Desarrollo de antecedentes y la estructuración de la Problemática
2. Justificación e Hipótesis de Trabajo
3. Objetivos Generales y particulares

## ANTECEDENTES

Del total de más de 5 millones de toneladas de Dióxido de Carbono equivalentes, el medioambiente construido tiene un porcentaje de incidencia del 51% en la producción de estos GEI en la ciudad de Córdoba, con un impacto directo en el cambio climático.

En el Gráfico Nº1 se analiza detalladamente la emisión GEI proveniente de la energía estacionaria, y en él se puede observar la incidencia de las construcciones residenciales y de la industria:

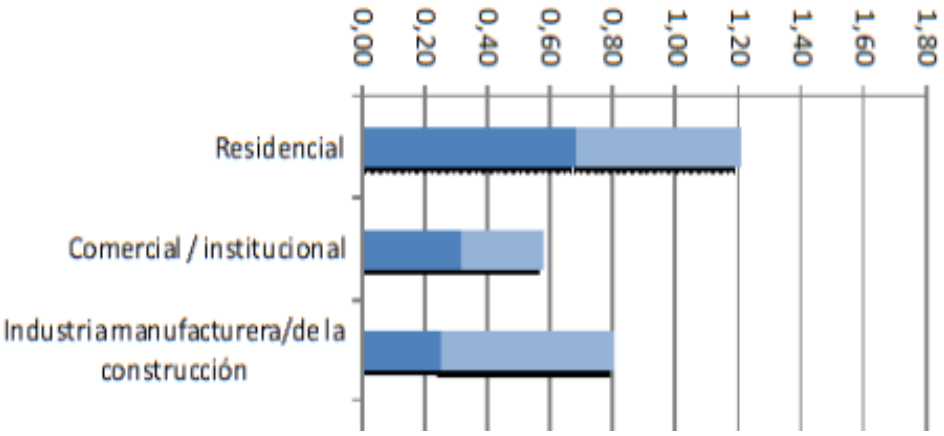



GRÁFICO Nº1. GEI ENERGÍA ESTACIONARIA - CIUDAD DE CÓRDOBA.

Al disminuir la demanda energética de las construcciones se disminuye en forma directa el requerimiento en la producción de energía, situación que tiene además cada vez mayor relevancia por el aumento de precio de las tarifas locales. **Esta lógica de disminución de demanda de los edificios, abarca a todos los sectores productivos y también a las familias.** El mejor camino a la eficiencia energética es el de la *menor demanda*, y no el *menor consumo*.

El gráfico Nº2, realizado por el Instituto de Sustentabilidad Edilicia (iSe) del Colegio de Arquitectos de Córdoba, ayuda a comprender el concepto de eficiencia energética:

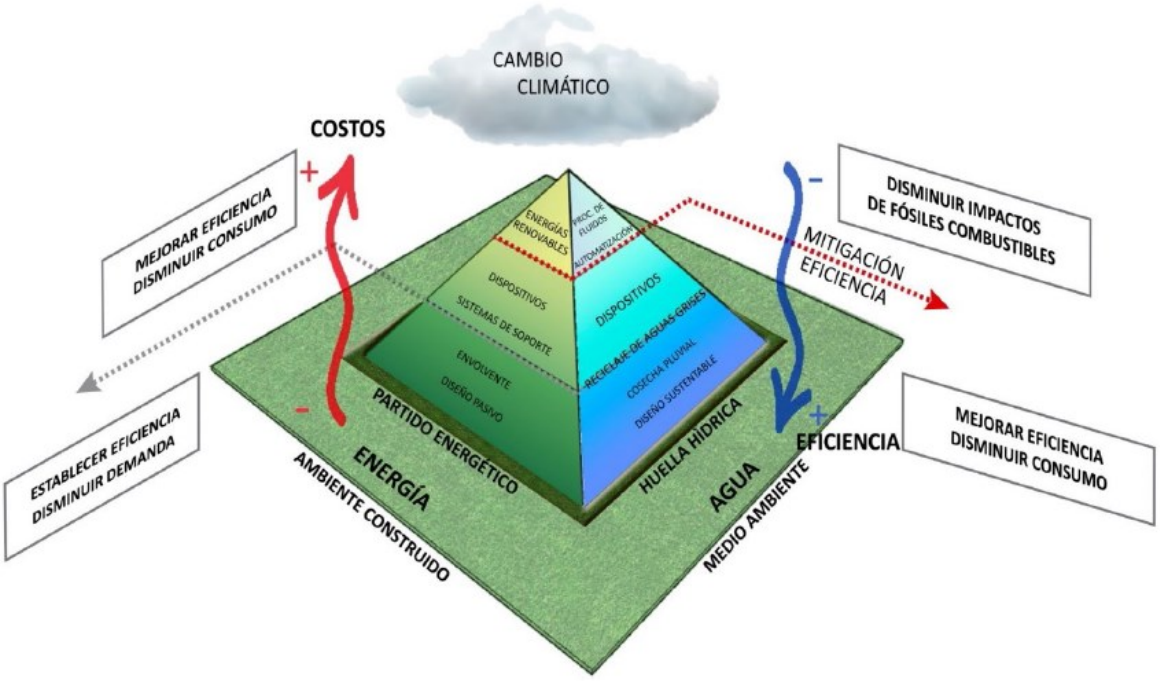



GRÁFICO Nº2. SUSTENTABILIDAD INTEGRADA.

La lista de **estrategias de control para lograr una construcción** (familiar, industrial, comercial u otras) **sustentable, eficiente y no contaminante es:**

- Estrategias de diseño bioclimático en la toma de partido inicial.
- Verificación de las propiedades energéticas de la envolvente.
- Utilización de los siguientes atributos de manera extensa:
    - Iluminación Natural
    - Ventilación Natural
    - Inercia térmica
    - Cobertura Vegetal
    - Aprovechamiento pluvial
    - Reciclaje de aguas grises

  - Reflectancia superficial de la envolvente (IRS)
- Integración de los sistemas
- Aislación selectiva
- Utilización de recursos pasivos para la climatización.
- Eficientización del consumo de agua potable.
- Disminución de los valores de emisión de GEI para la vivienda standard.
- Eficiencia en el uso de la tecnología constructiva que permita el uso flexible de la misma
- Utilización de tecnología y/o materiales que requieran bajo mantenimiento en su uso.
- Utilización de tipologías funcionales que impliquen la incorporación de espacios semicubiertos y peri-cubiertos aprovechables en los distintos ciclos estacionales.

## ESTRUCTURACION DE LA PROBLEMATICA ESPECIFICA DEL ESTUDIO DE ENVOLVENTES

El desafío ambiental que se impone a Córdoba es reducir las emisiones GEI, haciendo foco en la fuente que mayores emisiones presenta: las construcciones o espacio edificado.

Al analizar la incidencia que tiene en la ciudad el medioambiente construido en el consumo energético, uno de los elementos determinantes es la **envolvente.**

Por ello, mejorar el estado de transmitancia térmica y el riesgo de condensación de las envolventes, es condición imprescindible para **controlar la eficiencia y la demanda energética de los edificios**. El intercambio energético que se produce entre ambos ámbitos (exterior – interior) genera una amplia gama de condicionantes en el consumo energético necesario para el acondicionamiento térmico y la calidad ambiental del aire de los locales cerrados.

El método que se utiliza hoy para medir el nivel de aislación térmica de una envolvente en relación al porcentaje de energía que la atraviesa posee dos grandes inconvenientes:

1. El cálculo se realiza en base a datos que publica la Facultad de Arquitectura, Urbanismo y Diseño (FAUDI) de la UNC en el *Atlas de Envolventes.* Esta metodología es imprecisa por la condición estática del cálculo: los protocolos y métodos de diagnóstico de performance de un elemento constructivo clave como es la envolvente ya sea desde el punto de vista de su fabricación, diseño y disposición final, han sido hasta el presente llamados **de régimen estático o estacionario** (según normas IRAM 11601 y 11605);
2. Cada modelado debe elaborarse de forma prácticamente “artesanal” y el resultado no es técnicamente aceptable para cumplimentar la norma IRAM 11900 para el etiquetado energético de edificios. Si bien esta normativa no es aún de carácter obligatorio, es altamente probable que se emita alguna legislación (nacional, provincial o municipal) que obligue a su cumplimiento.

Resulta imprescindible considerar el estudio de la **demanda energética en régimen dinámico** de los espacios contenidos en distintas envolventes, midiendo la verdadera performance de dichos elementos.

**Esta es la base del diseño sostenible en la construcción e implica analizar energía, agua y emisión de CO2 en el funcionamiento de un edificio dentro del contexto de su entorno.**

## JUSTIFICACION DEL PROYECTO

El Colegio de Arquitectos se propone innovar cambiando el paradigma de la medición estática y, capitalizando la experiencia ganada en estos años, **desarrollando un sistema de simulación dinámica del comportamiento energético de envolventes utilizadas en la construcción en Córdoba**

- Análisis de la energía para carga térmica del edificio: cálculo de la demanda de energía para climatización, mediante el uso de una base de datos meteorológica, este es un estudio térmico que consiste en modelizar los ciclos de calefacción y refrigeración analizando variables como efectos de la ocupación, ganancias internas, pérdidas de calor y equipamiento., se materializa en kWh/m2 año.
- Diagnóstico del comportamiento de las temperaturas interiores y exteriores para cada caso analizado, ello se realiza para ambos ciclos térmicos y se materializa en temperaturas promedio mensuales en todo el año.
- Análisis del comportamiento del interior del edificio que refiere al disconfort higrotérmico para ambos ciclos térmicos y se materializa en grados hora mensuales para todo el año.

Siendo una demanda del momento en términos de la comunidad y en el marco de los objetivos ambientales que se incluyen de manera permanente en los objetivos del Instituto de Sustentabilidad Edilicia, este sistema permitirá a profesionales del diseño, la construcción y el desarrollo inmobiliario; la industria de la construcción; la industria de producción de materiales para la construcción y los gobiernos en sus áreas específicas, **mejorar el desempeño energético de las construcciones y traducirlo en forma directa a reducción costos tanto financieros como ambientales.**

# HIPOTESIS DE TRABAJO

PREGUNTA INICIAL

¿Cómo se modifica el comportamiento de las envolventes construidas al ser evaluadas y medidas en régimen dinámico en un prototipo de simulación, al ser incluidos en la evaluación los indicadores externos e internos de asoleamiento, ventilación, climatización interna y ocupancia?

Cuando se la considera de manera sistémica incluyendo el análisis de todas los indicadores absolutos y relativos, intervinientes en las edificaciones, la prestación de los materiales utilizados en las envolventes, registra variaciones.

Dichas variaciones impactan de manera directa en la calidad ambiental y eficiencia energética de lo construido.

IDENTIFICACIÓN DE LA ALTERNATIVA-OBJETO DE ESTUDIO

El iSe (Instituto de Sustentabilidad Edilicia del Colegio de Arquitectos de Córdoba) ha trabajado en el modelado dinámico de envolventes, para suplir los defectos de la metodología estática utilizada en la actualidad y que se ha descrito anteriormente.

Entonces se consensua por modelar el análisis de las envolventes en régimen dinámico, agregando al análisis de régimen estático que considera los materiales en sí mismos, **el análisis en situación constructiva** en las condicionantes de climáticas estacionales designadas.

Esto constituye una innovación por dos aspectos:

- Es el primer Atlas de Envolventes en régimen dinámico que se elabora en la ciudad de Córdoba, que se fundamentará específicamente en las condiciones climáticas horarias y estacionales locales.
- Será información técnica elaborada por especialistas y puesta a disposición de la comunidad profesional para su implementación y aprovechamiento directo.

Se propone tomar la base de referencia existente (atlas de envolventes estáticas) y realizar protocolos comparativos que permitan resignificar el conjunto de soluciones disponibles.

Para dotarlo de las condiciones de simulación dinámica, se propone el siguiente curso de acción:

- Revisarlo, actualizarlo y mejorar la base de envolventes de acuerdo a la industria local (diseñadores, maestros, arquitectos, empresas constructoras).
- Una vez estabilizada esa base, incorporar los requerimientos de IRAM 11625 en cuanto a condensación superficial.
- Establecer como prototipo para el estudio de factor de forma: una vivienda de interés social típica.
- Integrar resultados comparativos estadísticos: agrupar por desempeño y someter a un análisis exhaustivo sobre las performances de grupos de envolventes.

## OBJETIVOS GENERALES

- Generar un Atlas de envolventes de sistemas constructivos que sistematice y tipifique los materiales disponibles a nivel nacional, y que están siendo utilizados para envolventes en la industria local
- Poner a disposición de los sectores profesionales y productivos de la industria de la construcción, cámaras y Pymes en todos sus niveles, la información elaborada, para su implementación y aprovechamiento directo.

## OBJETIVOS PARTICULARES

- Modelar el análisis de las envolventes en **régimen dinámico**, agregando al análisis de régimen estático que considera los materiales en sí mismos, el análisis en situación constructiva con todas las condicionantes climáticas estacionales.
- Certificar en el Atlas de Envolventes los niveles de prestación, considerando los dos indicadores indispensables para la calificación de eficiencia de las mismas en **régimen estático:**
  - transmitancia térmica (IRAM 11605)
  - condensación intersticial y superficial (IRAM 11625)
- Certificar en el Atlas de Envolventes los niveles de prestación, considerando los indicadores de **régimen dinámico**.
- Modelado y simulación de demanda energética y confort higro-térmico adaptativo, se corre bajo motor de cálculo de régimen dinámico transitorio, ENERGY PLUS TM.
- La base climática adoptada es la base EPW (EnergyPlus Wheather Format) de acuerdo a la localización geográfica del emplazamiento auditado.
- Las simulaciones dinámicas (8760 horas), se llevan a cabo a partir de modelos zonificados por locales interiores (áreas térmicas)) que permiten modelar la demanda energética mensual y anual, estableciendo niveles de confort térmico estacional (de acuerdo a las normativas cotejadas localmente).

## BENEFICIARIOS/DESTINATARIOS DEL PROYECTO

Gobiernos: viviendas sociales, comercios, edificios del sector Turismo, gastos públicos, etc.

La performance energética de los materiales envolventes que son utilizados en la construcción genera una gama extensa de impactos directos en la comunidad de la construcción de la ciudad de Córdoba:

- Industria de materiales de insumo para construcciones en seco. (metalmecánica, paneles en seco, aislantes térmicos, etc.)
- Industria de materiales húmedos, particularmente en el sector de producción de los mampuestos, cementos y afines.
- Industria de fabricación de aberturas de todo tipo y material para los edificios.
- Industria metalmecánica (fabricantes de sistemas de ventilación, motores, dispositivos de climatización)
- Comunidad de profesionales del diseño de edificios (ingenieros civiles, ingenieros especialistas, MMO, Técnicos constructores, Constructores.
- Cámara de Agentes Inmobiliarios
- Cámara de la Construcción

# II
# ENCUADRE DEL DIAGNOSTICO

# MODELO DE ANALISIS DE ENVOLVENTES

Para el estudio de las diferentes envolventes, se analiza el comportamiento térmico en el desarrollo de una tipología de vivienda específica, analizadas por medio de dos sistemas de cálculo energético: PLANILLA DE CALCULO IRAM 11605 / 11625 (Copyright ISE) & ENERGYPLUS TM, el primero de régimen estático y el segundo de régimen dinámico.

Para esto, se investigaron diferentes tipos de sistemas constructivos, tradicionales y no tradicionales, con todas sus variables, se estableció un formato de agrupación de sistemas que se dio por llamar: “familias tecnológicas”, en ellas el denominador común es el tipo de tecnología o marca y /o disposición de tipo de material predominante, que varía en su espesor y algunas capas agregadas cuya función varía permanentemente.

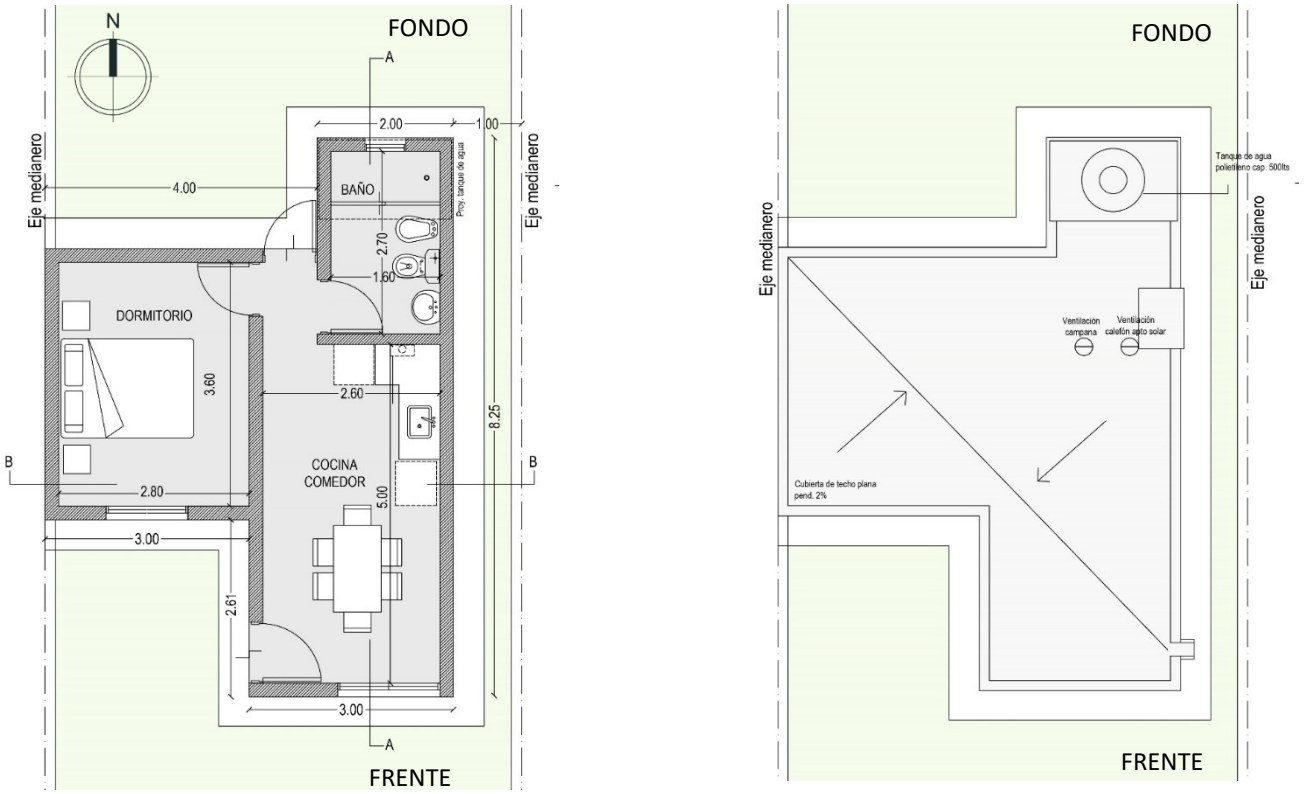
El objetivo fue diagnosticar y desarrollar criterios de optimización del desempeño energético de las diferentes envolventes aplicadas en una tipología habitable mínima, para así crear distintos parámetros de comparación y elección, de manera estable y que permitiese su diagnóstico comparativo, sobre base de performances utilizando métodos combinados.

El prototipo de vivienda adoptado se sitúa en la ciudad de Córdoba, en un lote rectangular, cuyo frente a la calle es el lado menor y de orientación sur, mientras que sus lados más extensos orientan directamente hacia el Este y Oeste. Cabe mencionar que este criterio se definió como una de las opciones más favorables y comunes de encontrar dentro del ejido de la ciudad de Córdoba.

Ante la forma rectangular del lote, la tipología habitable seleccionada, es la T35, de 35m2 cubiertos (seleccionada como una de las tipologías que cuenta con mayor cantidad de unidades a ser desarrolladas en el plan de 25.000 viviendas de interés social del Gobierno de la Provincia de Córdoba.

La tipología cuenta con: un dormitorio, un estar/comedor/cocina continuos y un baño, todo desarrollado en planta baja. El baño y la cocina están agrupados en un mismo núcleo húmedo, por lo que la mayoría de las instalaciones destinadas a agua se encuentran en un mismo muro.

El Factor de Forma de la tipología, que es un algoritmo que permite remitir la compacidad de la forma seleccionada # FF = Sup envolvente/ vol envuelto, es 1,56, lo que representa un índice aceptable para un clima cálido húmedo como el de la ciudad de Córdoba, (entre 1,2 y 1,4 es lo recomendado para esta zona bioclimática. S/ Olgyay # Design with Climate Oxford 1964.




PLANTA DE ARQUITECTURA T35

## PROCESO DE DIAGNOSTICO ENERGETICO TERMICO

El uso de estos programas de simulación ENERGYPLUS, nos permite realizar un análisis dinámico del comportamiento de las envolventes en relación a un sistema climático específico y a las condiciones habitables que se especifiquen.

Para el estudio de la diversidad de envolventes y combinaciones de materiales, se desarrolla un sistema de análisis basado en la composición de un mismo espacio habitable con diferentes sistemas constructivos de muros y cubiertas.

Es así que si tenemos en cuenta el estudio del comportamiento térmico de las diferentes envolventes verticales (muros), como punto de comparación, tomaremos sólo un tipo de “cubierta testigo”. Para el análisis de las envolventes horizontales (cubiertas de techo) se tomará como ejemplo un solo tipo de “muro testigo”. De esta forma se garantizan las correctas conclusiones y comparaciones de los diferentes sistemas y materiales disponibles.

Para realizar el análisis térmico edilicio se establecieron las siguientes variables:

- Uso del edificio: Vivienda
- Ubicación de la vivienda. Córdoba Capital
- Ocupancia definida de los espacios. Permanente.
- Tipo de actividad. Doméstica.
- Las temperaturas de diseño establecidas: interior (18°) exterior (2.60°), Humedad Relativa de los ciclos (74.40% y 90%)
- Sistemas de ventilación natural por infiltración de carpintería Categoría IRAM 11507: B.

Operativamente, el desarrollo del análisis de desarrolla de la siguiente manera:

1) Una tipología de vivienda en planta, con ocupación permanente de dos a tres personas.
2) Variaciones tipológicas de materiales, establecidos de la siguiente manera:
   - Para el análisis de Envolventes Verticales **- Muros**: Se establece una cubierta tradicional fija combinada con **196** tipologías de muros.
   - Para el análisis de Envolventes Horizontales - **Cubiertas**: Se establece un muro tradicional tipo combinado con **118** tipologías de cubiertas.
3) Identificación de los días críticos de disconfort en la base climática (invierno-verano)
4) Incorporación de la base climática de la ciudad de Córdoba, Argentina.

Estas cuatro operaciones generan como resultado 314 simulaciones dinámicas para cada estación del año (invierno-verano). (628 simulaciones en total)

La etapa preparatoria del diagnóstico dinámico, se opera desde la carga tradicional de datos en las planillas de Cálculo de transmitancia térmica, riesgo de condensación superficial y retardo térmico, utilizando el procedimiento de la norma IRAM 11605 y 11625, permitiendo tres tipos de datos comparativos de performance en el paquete estático.

INDICADORES DE RÉGIMEN ESTÁTICO

- Transmitancia Térmica - IRAM 11605
- Riesgo Condensación Superficial e Intersticial-IRAM 11625
- Retardo Térmico: s/Método McKey y Wright - s/Método Ray Chaudhury

Luego se procede al cálculo de las variables en régimen dinámico, de acuerdo al registro de envolventes arriba designado, permitiendo cuatro tipos de datos comparativos de performance en el paquete dinámico.

INDICADORES DE RÉGIMEN DINÁMICO

- Demanda Energética para climatización anual
- Disconfort Térmico
- Temperatura Interior promedio mensual
- Percentil Comparativo de Temperatura de Confort Ideal (20º)

# ESCENARIO CLIMATICO

El ESCENARIO CLIMÁTICO adoptado como modelo de referencia de cálculo: Córdoba Aeropuerto *(IRAM 11603)* ZONA III Templada Cálida. Estación Meteorológica 873440. A. Taravella. Las siguientes diez figuras representan de manera gráfica dicha base referencial.

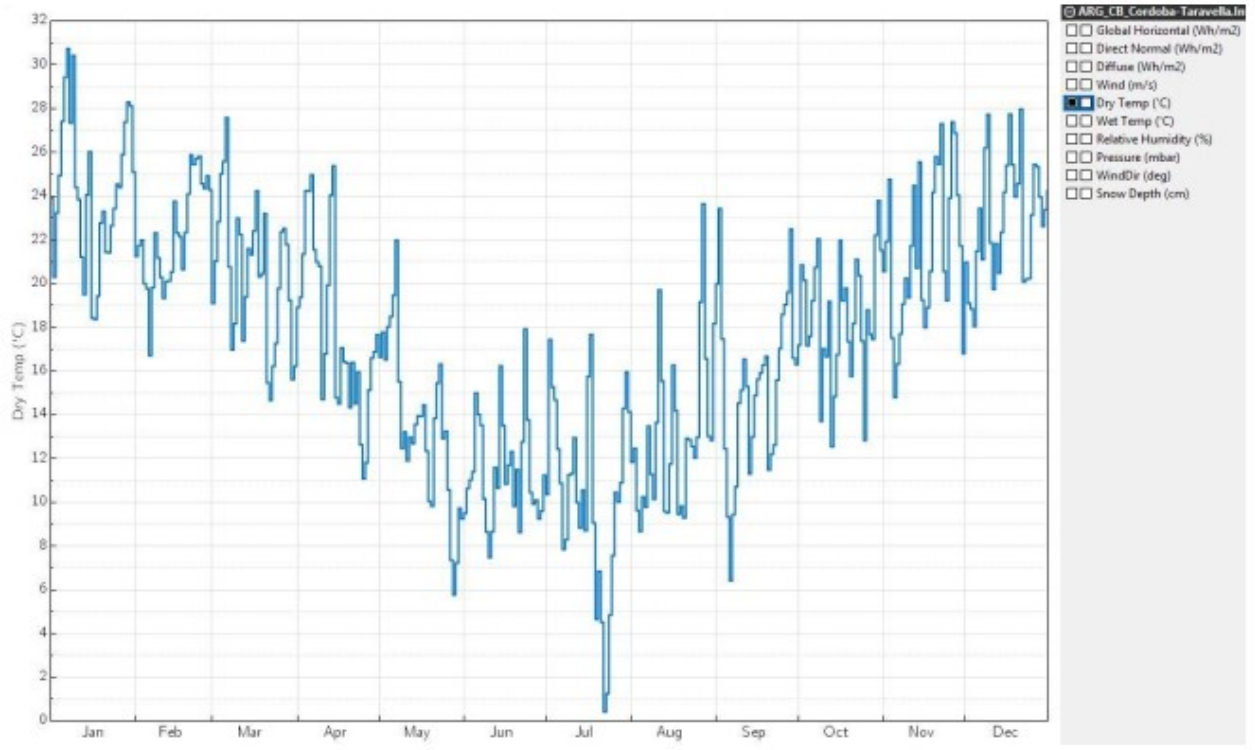



FIG 1 - TEMPERATURA DE BULBO SECO PROMEDIO - ºC -VARIACIÓN DIARIA ANUAL.

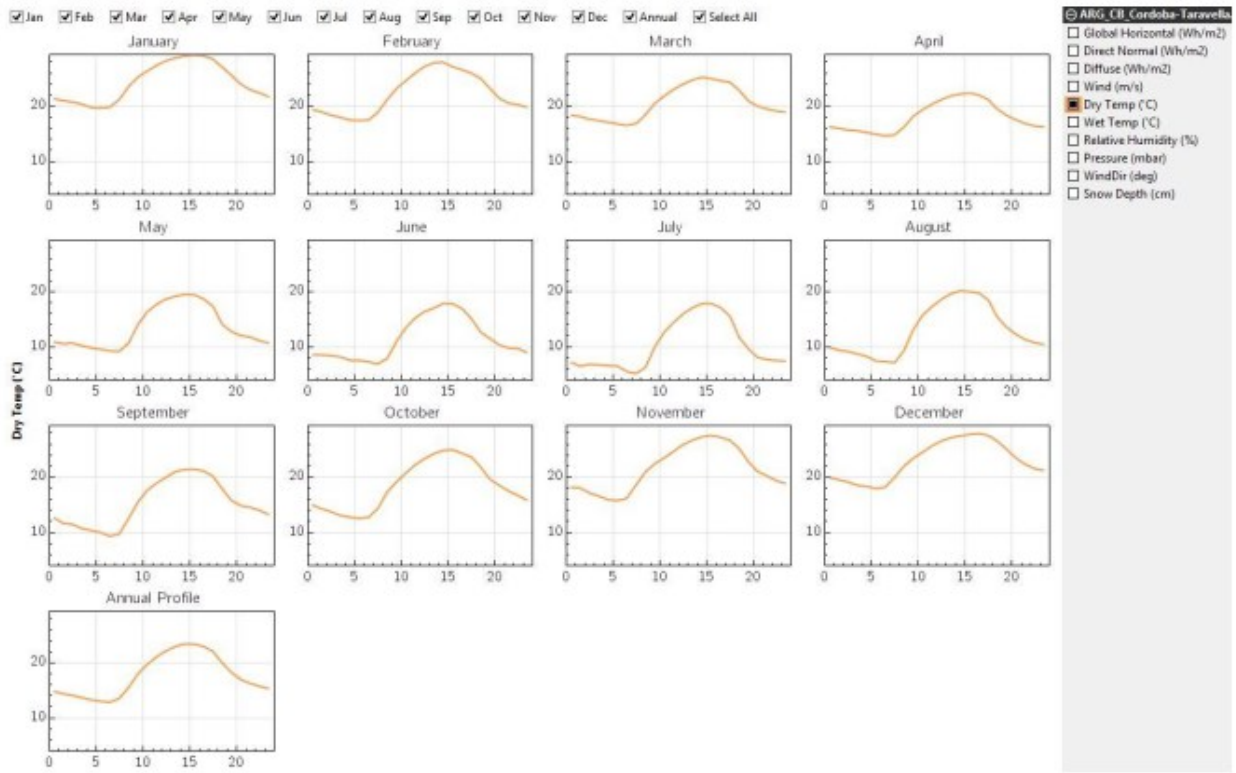



FIG 2 - TEMPERATURA DE BULBO SECO PROMEDIO - ºC - VARIACIÓN MENSUAL.




FIG 3- TEMPERATURA DE BULBO HUMEDO PROMEDIO- °C VARIACION ANUAL

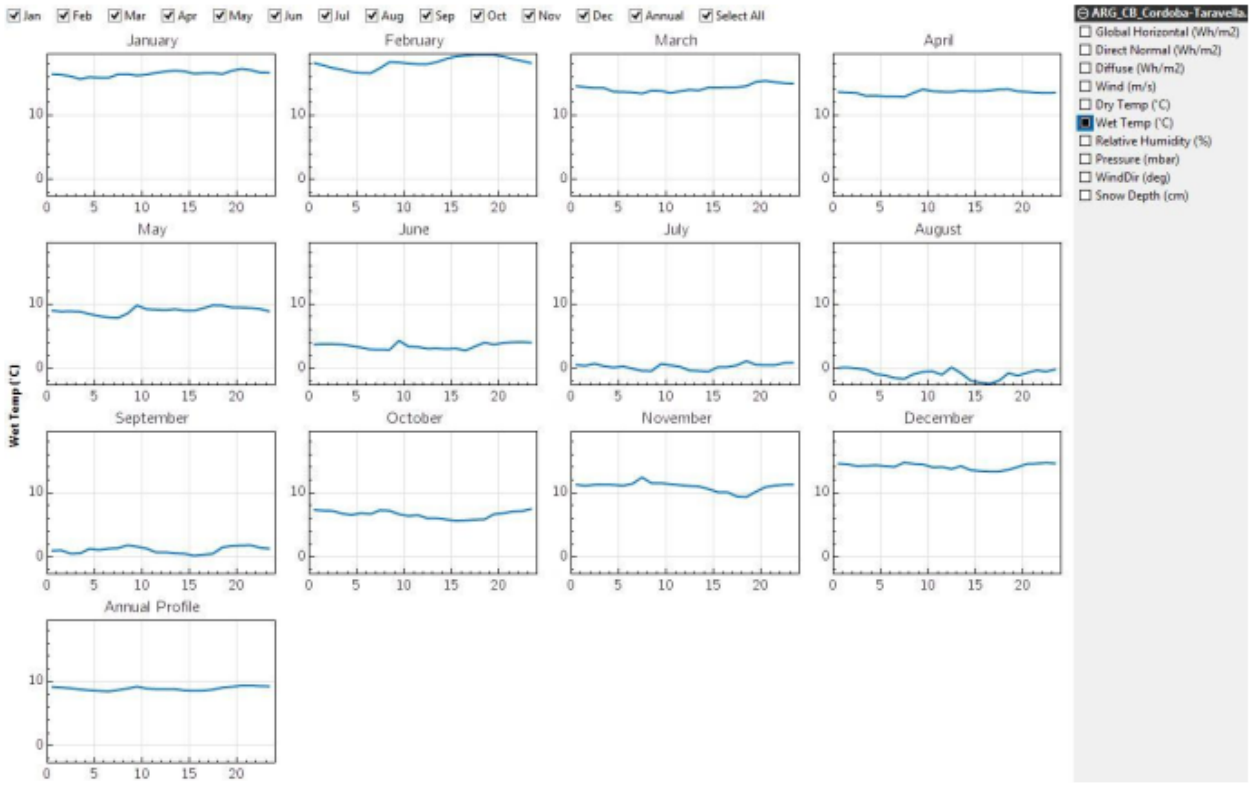



FIG 4- TEMPERATURA DE BULBO SECO PROMEDIO- °C VARIACION ANUAL

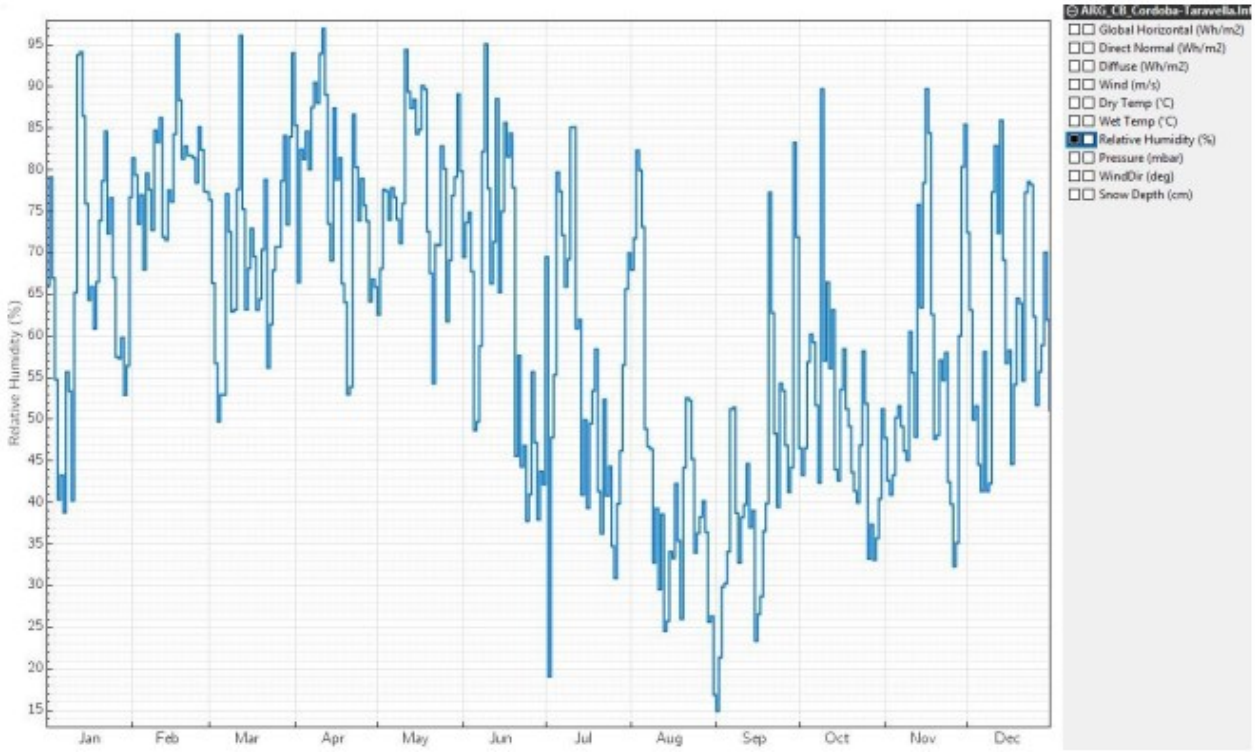



FIG 5- HUMEDAD RELATIVA DIARIA PROMEDIO -%- VARIACION DIARIA ANUAL

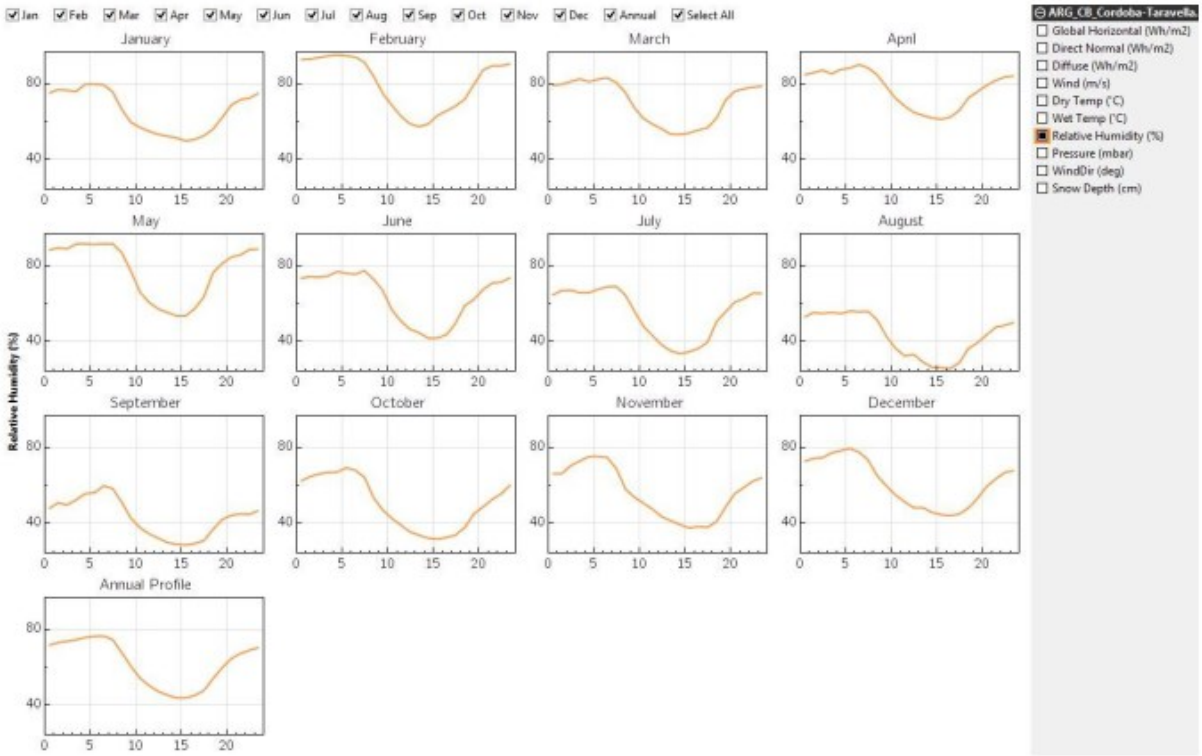



FIG 6- HUMEDAD RELATIVA DIARIA PROMEDIO -%- VARIACION ANUAL

7

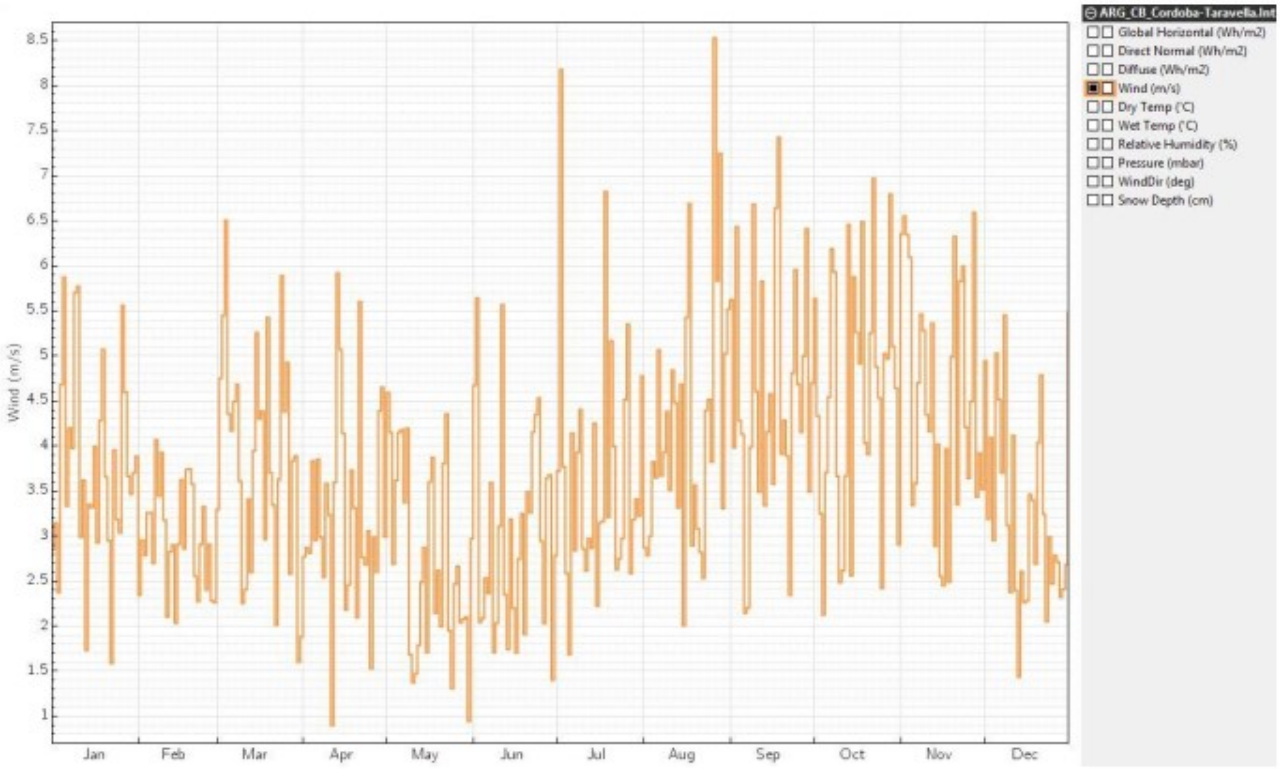



FIG 7- VELOCIDAD DEL VIENTO PROMEDIO -m/s- VARIACION DIARIA ANUAL

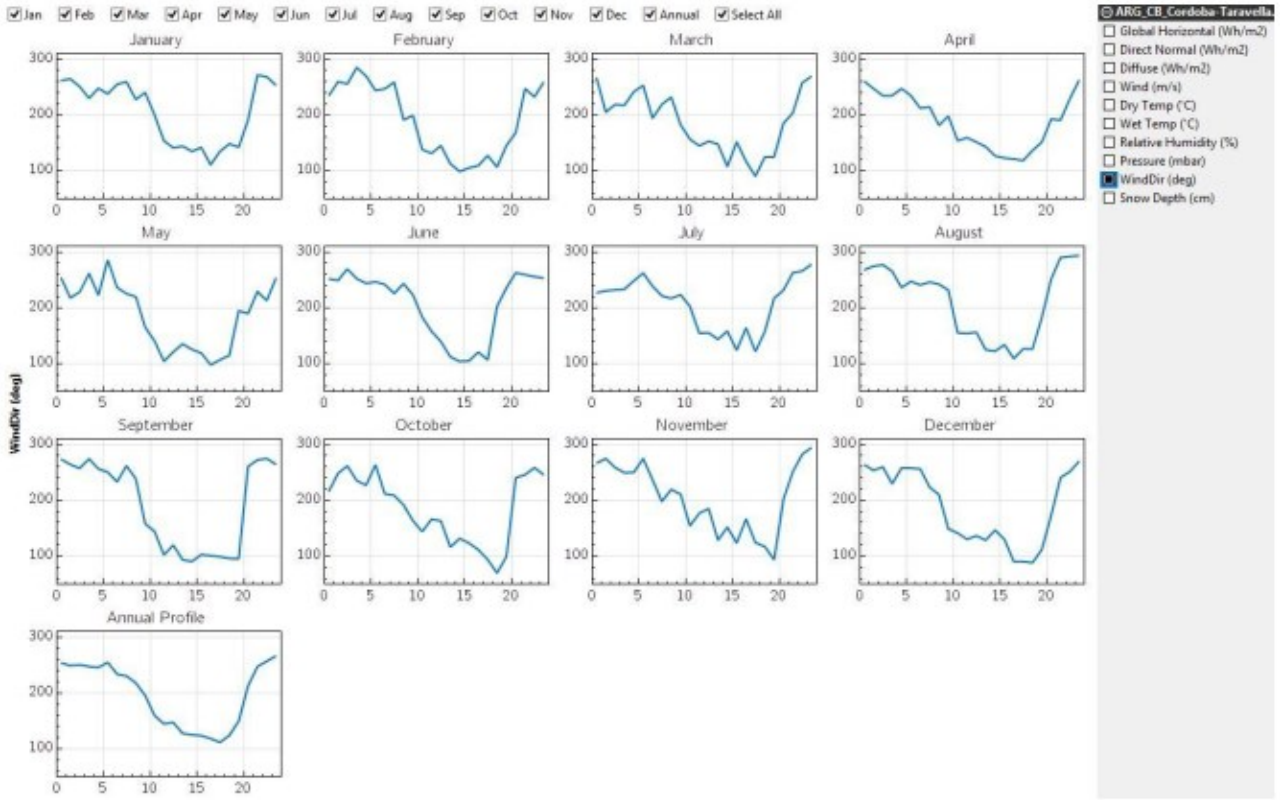



FIG 8- DIRECCION DEL VIENTO PROMEDIO -m/s- VARIACION MENSUAL

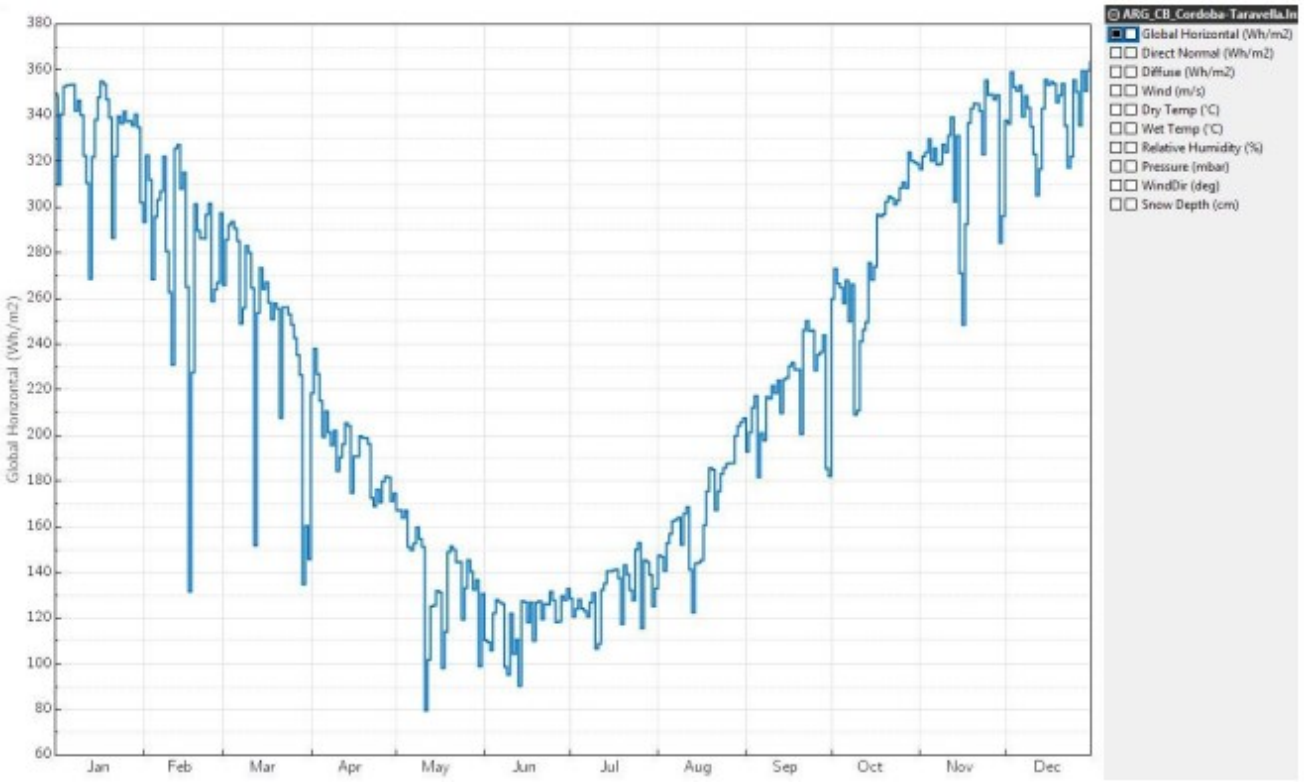



FIG 9- RADIACION GLOBAL HORIZONTAL -Wh/m2- VARIACION DIARIA ANUAL

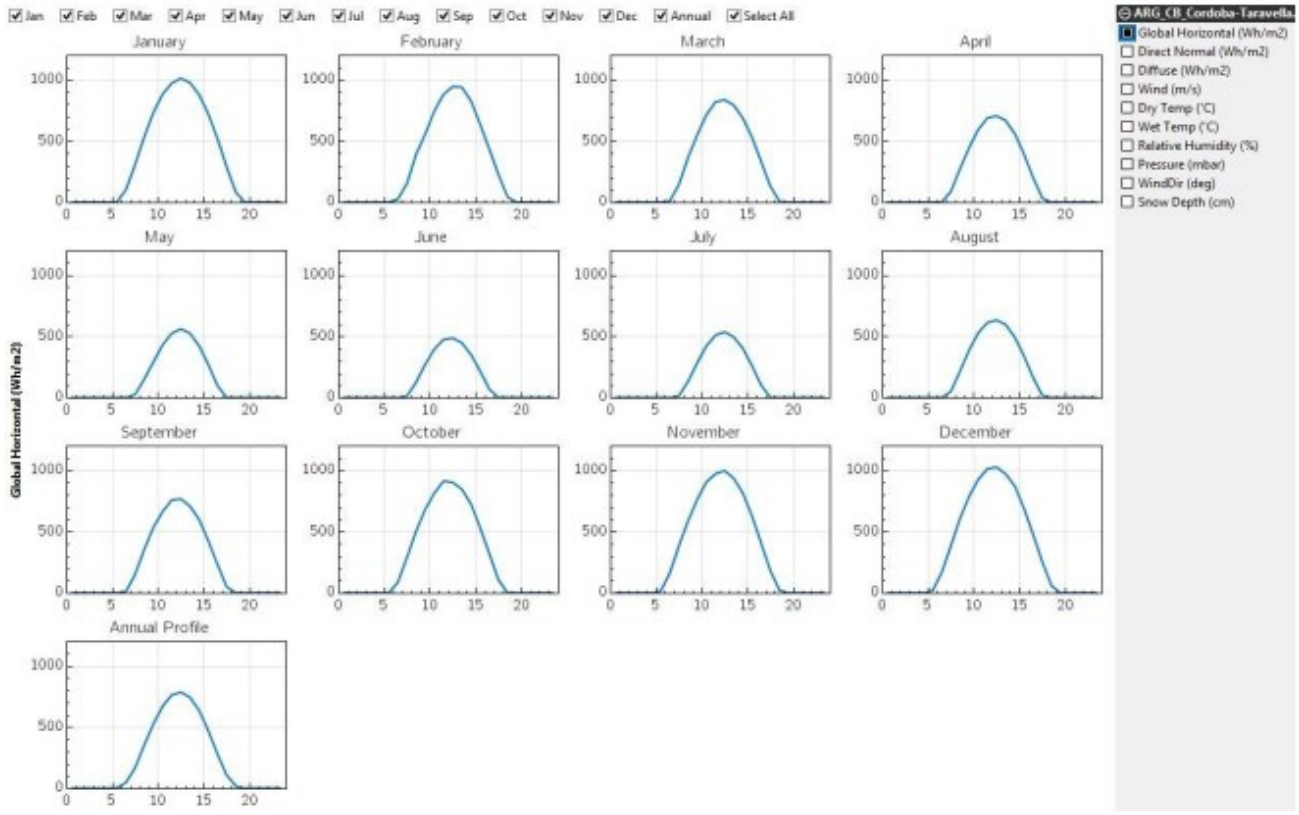



FIG 10- RADIACION GLOBAL HORIZONTAL DIARIA -Wh/m2- VARIACION MENSUAL

Utilizando la base climática precedente, se determinó la temperatura exterior del aire promedio medio mensual para los doce meses del año, y se configuró, para una temperatura ideal de 20 °C, el diferencial entre estos algoritmos, (FIGURA 11), fijando dicho resultado de derivada parcial (geometría diferencial) como referencia óptima, y así poder establecer las dispersiones características de cada uno de los resultados de temperatura obtenidos para cada unidad en un percentil estadístico relativo de base propia 0-1.

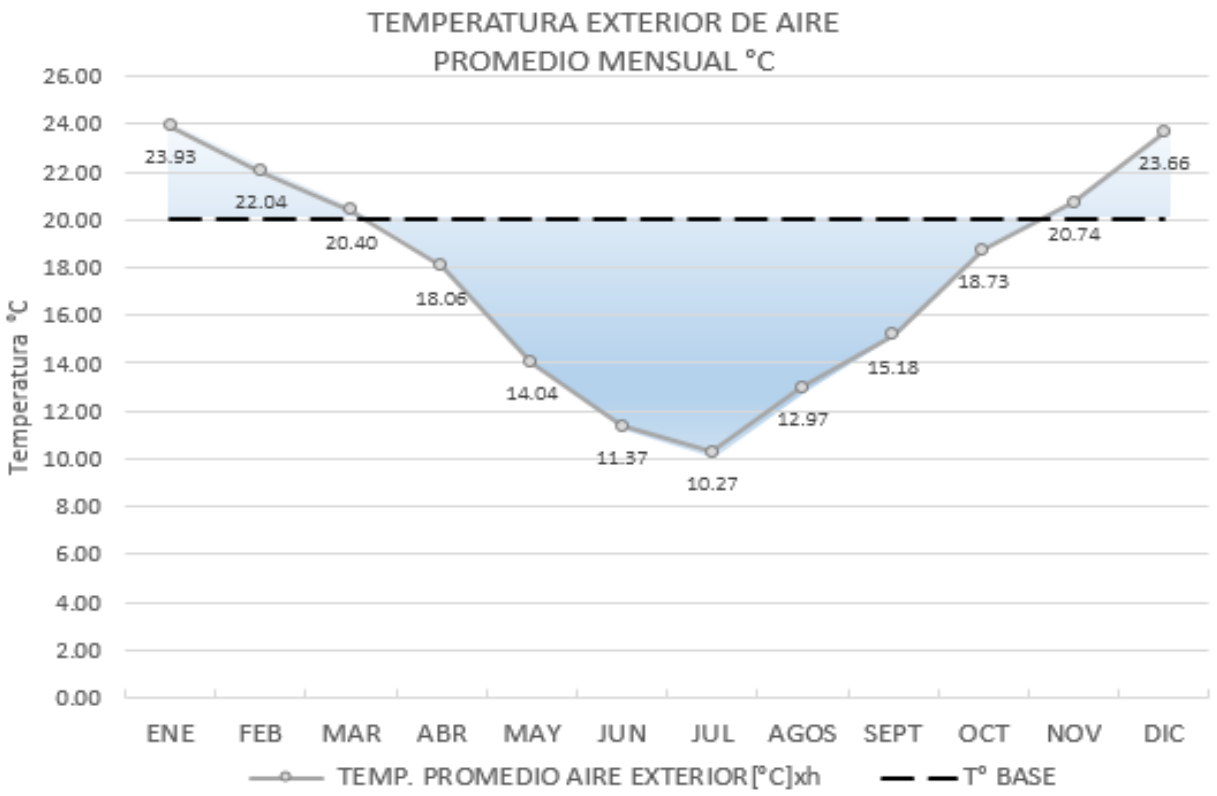



FIG 11- DIFERENCIAL TEMPERATURA EXTERIOR/ BASE 20°C CONFORT

Para el cálculo de los INDICADORES DE RÉGIMEN DINÁMICO, Transmitancia Térmica - IRAM 11605, Riesgo Condensación Superficial e Intersticial-IRAM 11625 y Retardo Térmico s/Método McKey y Wright - s/Método Ray Chaudhury, se utilizó la planilla desarrollada por el ISE, utilizada de manera oficial para el etiquetado ambiental edilicio del CAPC desde 2018.

Utilizando dicha planilla de cálculo se obtienen todos los resultados requeridos en el paquete de verificación estático, de manera sistemática y con altos niveles de verificación de error de carga de datos. FIGURA 12 Y 13.

.

## PLANILLA DE CALCULO DE PROPIEDADES TERMICAS DE ELEMENTOS CONSTRUCTIVOS

Referencias rápidas para su uso

### INGRESO DE DATOS

| | |
|---|---|
| 1 | **Designación del elemento: muro o techo** influye en el calculo de K admisible |
| 2 | **Descripción del elemento** (solo como referencia) |
| 3 | **Epoca del Año** ( Define Direccion flujo del Calor en Techos) |
| 4 | **Cantidad de Capas** (una vez definido deberá cliquear el boton "Calcular") |
| 5 | **Designación Localidad** ( elegir Provincia/departamento).A partir de este dato, de designará automaticamente y según estación metereologica a la que pertenece, la ASNM, Temperatura Exterior de diseño, Humedad Relativa, y Presion al Vapor de Agua |
| 6 | **Designar Tipo de Edificación:** según IRAM 11625. A partir de este dato, se designa automáticamente la Temperatura interior de confort. |
| 7 | **Designación de cada capa del elemento**. Desde el interior al exterior. Prisero se elige Grupo del Item, luego el Material específico.Precaución de colocar la última capa en el casillero indicado |
| 8 | **Espesor** de la capa en metros |

### DATOS AUTOMÁTICOS

| | |
|---|---|
| 1 | Designación de Zona bioambiental según IRAM 11603 se carga automáticamente según datro de Localidad |
| 2 | ASNM, Temperatura Exterior de diseño, Humedad Relativa, y Presion al Vapor de Agua |
| 3 | Conductividad térmica del material |
| 4 | Resistencia térmica: superficales int y ext , camaras de aire, y/o elementos heterogeneos como ladrillo ceramicos y bloques. |
| 5 | Densidad del material |
| 6 | Calor específico del material |
| 7 | Valores de permeabilidad o permeancia, según corresponda |

### RESULTADOS

| | |
|---|---|
| 1 | Resistencia térmica (cálculo s/IRAM 11601) |
| 2 | Transmitancia térmica "K" |
| 3 | Verificación según máximo admisible IRAM 11605 para Nivel de confort recomendado "A" |
| 4 | Retardo térmico y amortiguamiento |
| 5 | El color azul indica riesgo de condensación en la capa indicada |
| 6 | Gráfica de gradiente de temperatura real y temperatura de rocio en el elemento. La temperatura real (naranja) debe estar siempre por encima de la temperatura de rocio (azul). (cálculo de condensación s/IRAM 11625) |

FIG 12 – TUTORIAL DE PLANILLA DE VERIFICACIÓN ENERGÉTICA DE TRANSMITANCIA K + RETARDO + VERIFICACIÓN DE CONDENSACIÓN / IRAM 11605 / IRAM 11625 / # copyright ISE-CAPC

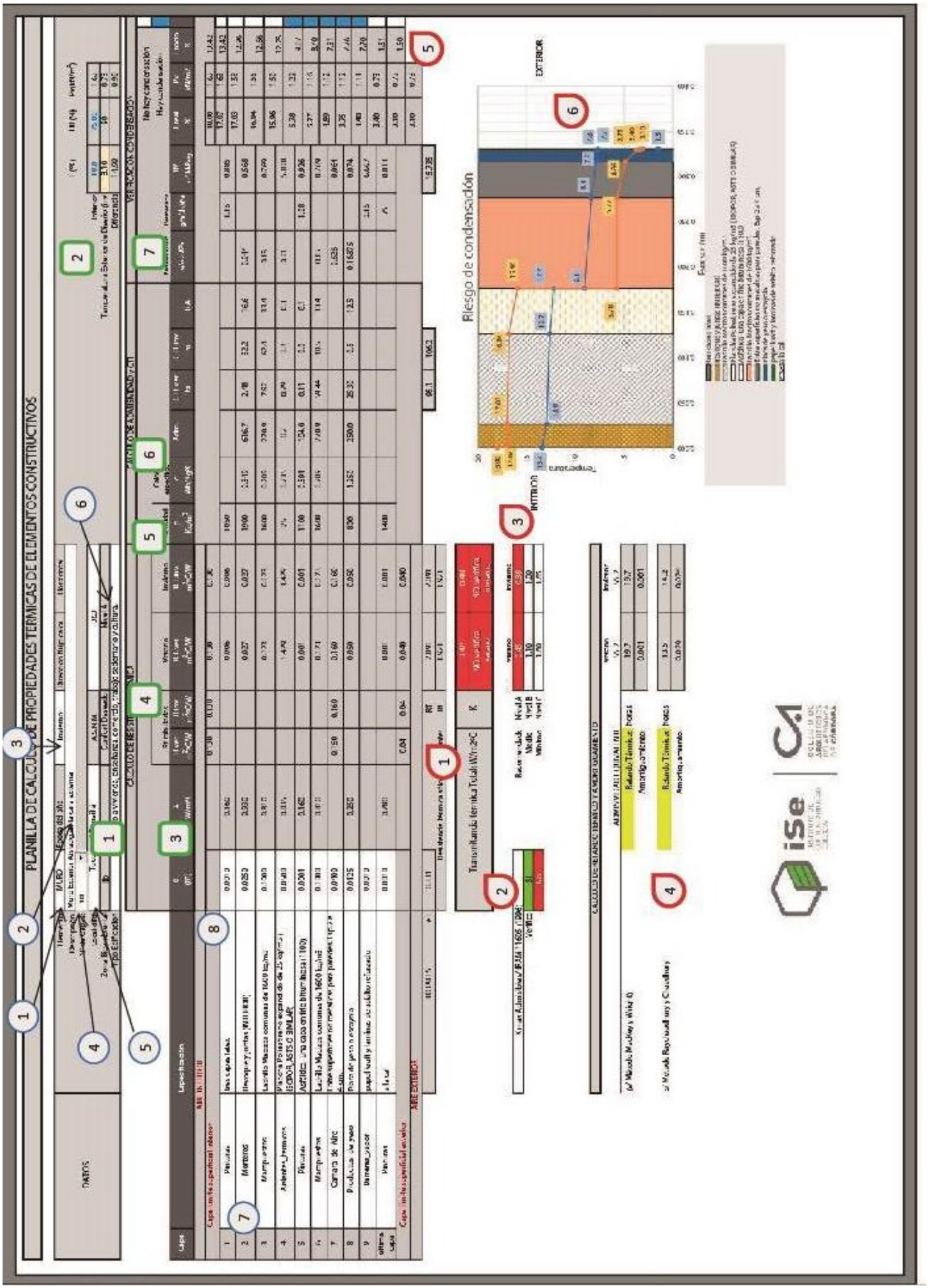



FIG 13 - PLANILLA DE VERIFICACIÓN ENERGÉTICA DE TRANSMITANCIA K + RETARDO + VERIFICACIÓN DE CONDENSACIÓN / IRAM 11605 / IRAM 11625 / # copyright ISE-CAPC.

El modelado y simulación de demanda energética y confort higro-térmico adaptativo, corrido bajo motor de cálculo de régimen dinámico transitorio, ENERGYPLUS TM

Las condiciones reales del entorno, se establecieron desde fichero climático propio, (de acuerdo a la localización geográfica del emplazamiento auditado), corregido de la base climática EPW (EnergyPlus Wheather Format).

El modelo se construye en las condiciones generales de orientación y entorno más precisas posibles, para desarrollar una evaluación bioclimática cercana a la real.

Las simulaciones dinámicas (8760 horas), se llevan a cabo a partir de modelos zonificados por locales interiores (áreas térmicas)) que permiten modelar la demanda energética mensual y anual, estableciendo niveles de confort térmico estacional (de acuerdo a las normativas cotejadas localmente).

La zona térmica (FIGURA 14) es la unidad base en el cálculo térmico, para las cuales serán calculadas las demandas.

Una zona térmica representa un único volumen de aire cerrado y homogéneo. Como tal, debe estar geométricamente cerrada, esto significa que tiene todas las superficies que encierran al volumen (sea piso, paredes, tabiques, techo, etc).

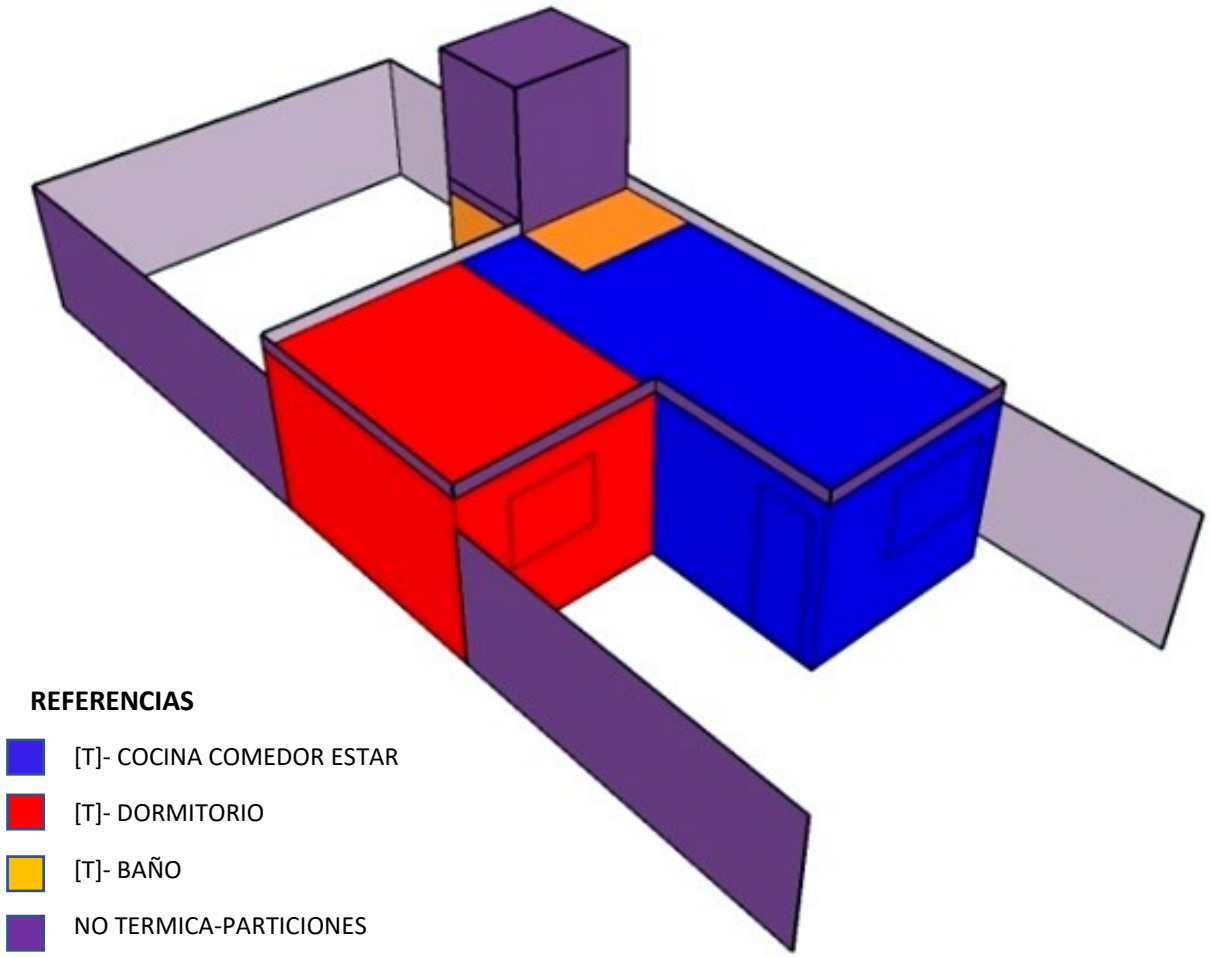



FIG 14- AXONOMETRICA CON ZONAS TERMICAS

Así mismo, las propiedades termo físicas de los sistemas constructivos de cada una de las superficies componentes (densidad, conductividad térmica y calor específico), se configuran en base a las propiedades de los materiales de construcción identificados en la norma IRAM 11601 y 11605 /2002, dichos resultados de configuración y verificación de performance estática energética se cargan como base de cálculo para cada modelo tecnológico de envolvente en el motor de cálculo dinámico ENERGYPLUS.

En el Diagnóstico que se realiza, se intenta emular las condiciones normales de infiltración y movimiento del aire, en este caso se establece como base de cálculo 0,5 ACH (Air Changes per Hour) y una velocidad de sensibilidad del aire de 0,25 m/s.

En la FIGURA 15, los resultados de la Demanda energética para Climatización mensual para ambos ciclos y con los resultados de Carga energética en kWh y de Intensidad energética o IPE /Indice3 de Prestación Energética en kWh/m2/año.

’

DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS



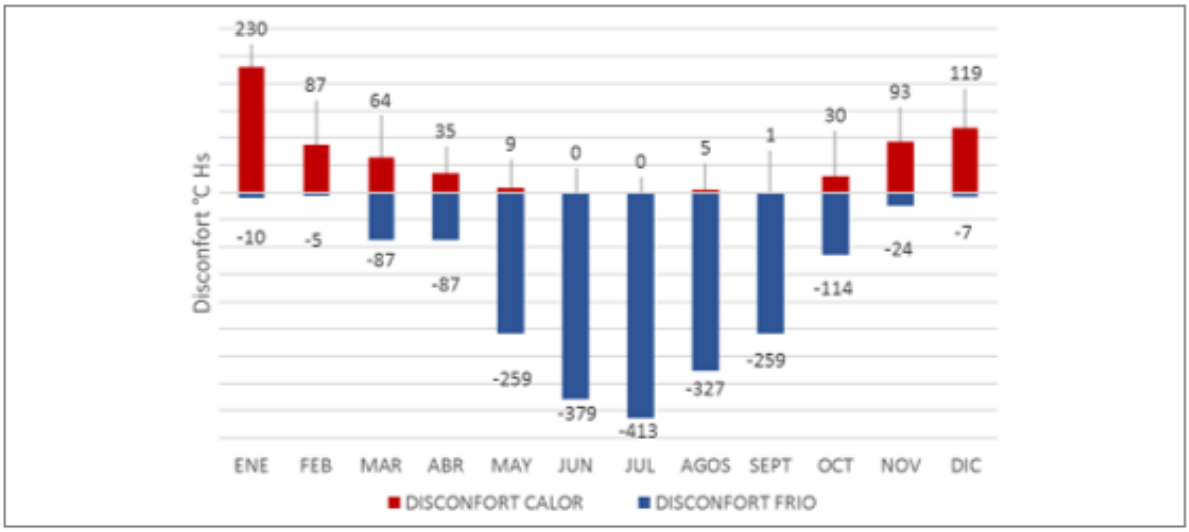

| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | 550,86 | kWh | 15,74 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | 2.540,61 | kWh | 72,59 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **3.091,47** | kWh | **88,33** | kWh/m2/año |

FIGURA 15 – DEMANDA ENERGÉTICA- REGIMEN DINÁMICO

Luego, se definen dos bandas de confort para cada ciclo térmico: 18ºC a 26ºC para el ciclo de refrigeración y 16ªC a 24 ªC para el ciclo de calefacción, como plataforma referencial para determinar los niveles de disconfort higro-térmico que propone cada solución tecnológica.

Los resultados se presentan en gráficos con frecuencia mensual, del registro de horas grado de disconfort en ciclo anual. (FIGURA 16)

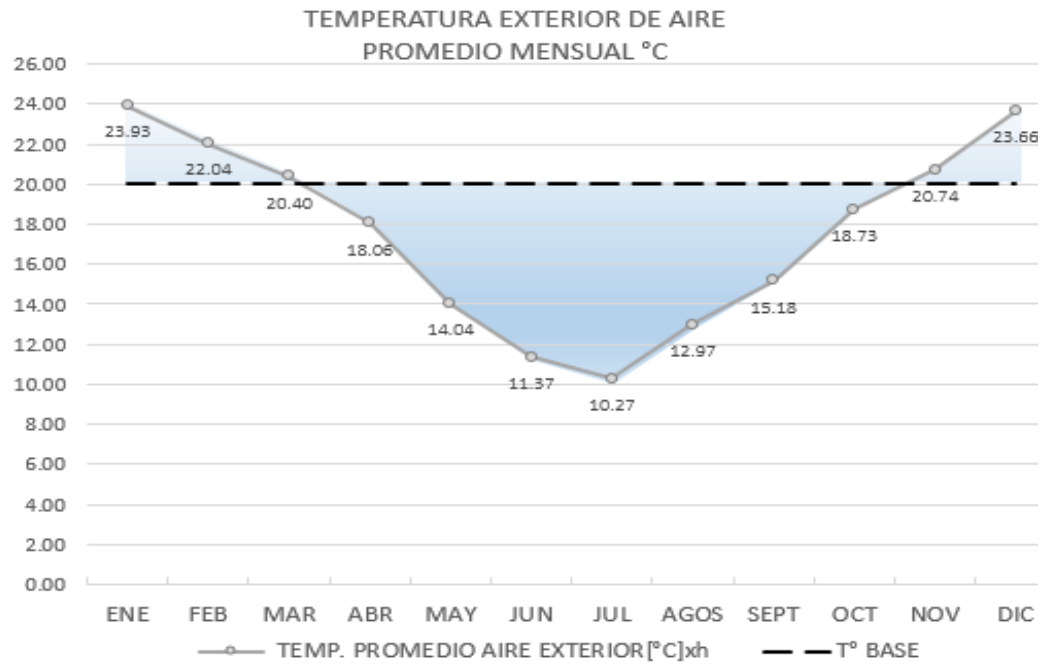
DISCONFORT HIGROTERMICO - °C h — REGIMEN DINAMICO E-PLUS /8760 HS



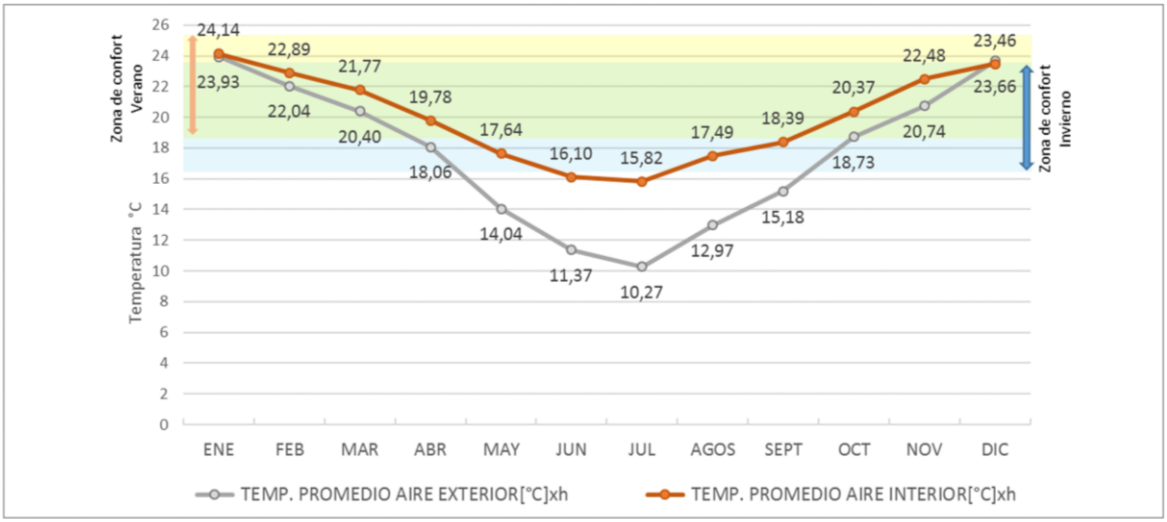

| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | 674 | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | 1.971 | °C Hs | 23% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **2.645** | **°C Hs** | **30%** |

FIGURA 16 – DISCONFORT HIGROTÉRMICO / Grados hora

Luego, se calcula la temperatura media promedio mensual proyectada para cada unidad de envolvente analizada y se determina el Percentil comparativo de Temperatura Interior, (FIGURA 17) de acuerdo al método expresado para la figura 11 y presentando una categorización de 1 a 8 (A+, A, B,C,D,E,F y G) y un percentil de 0 a 1, siendo 0 el máximo posible y 1 el mínimo.

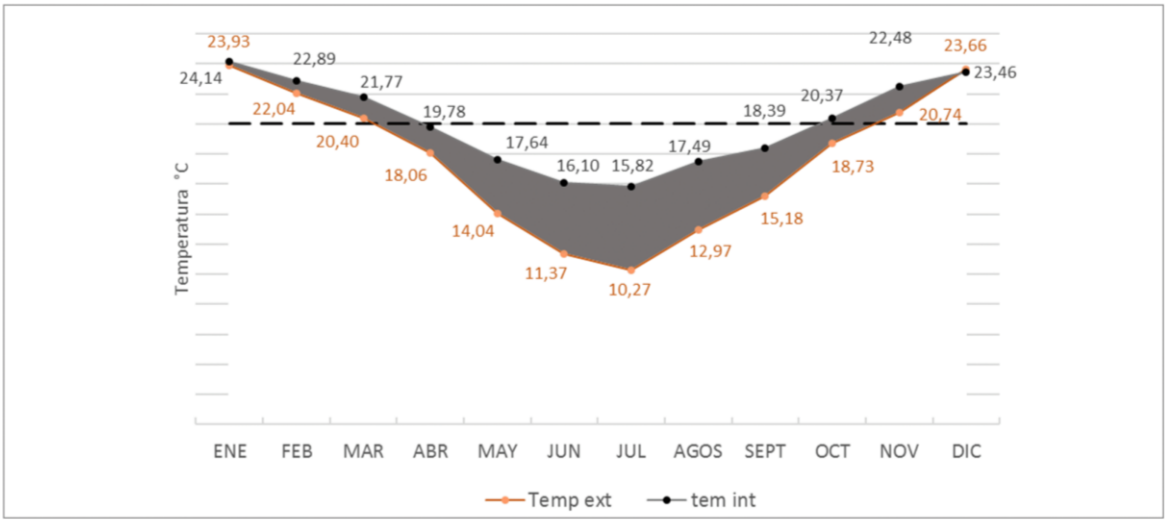


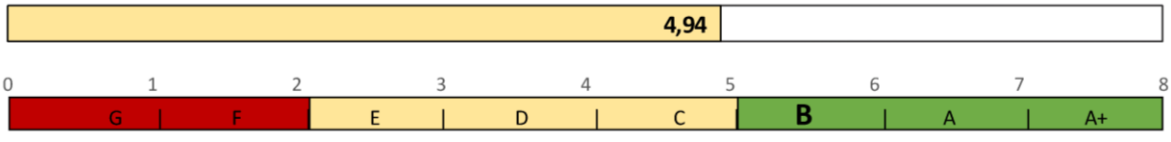
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 09/01 19:00 hs | **31,35** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **9,86** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS




4,94 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

FIGURA 17 – DIAGRAMAS DE TEMPERATURA INTERIOR – EXTERIOR / PERCENTIL DE CONFORT

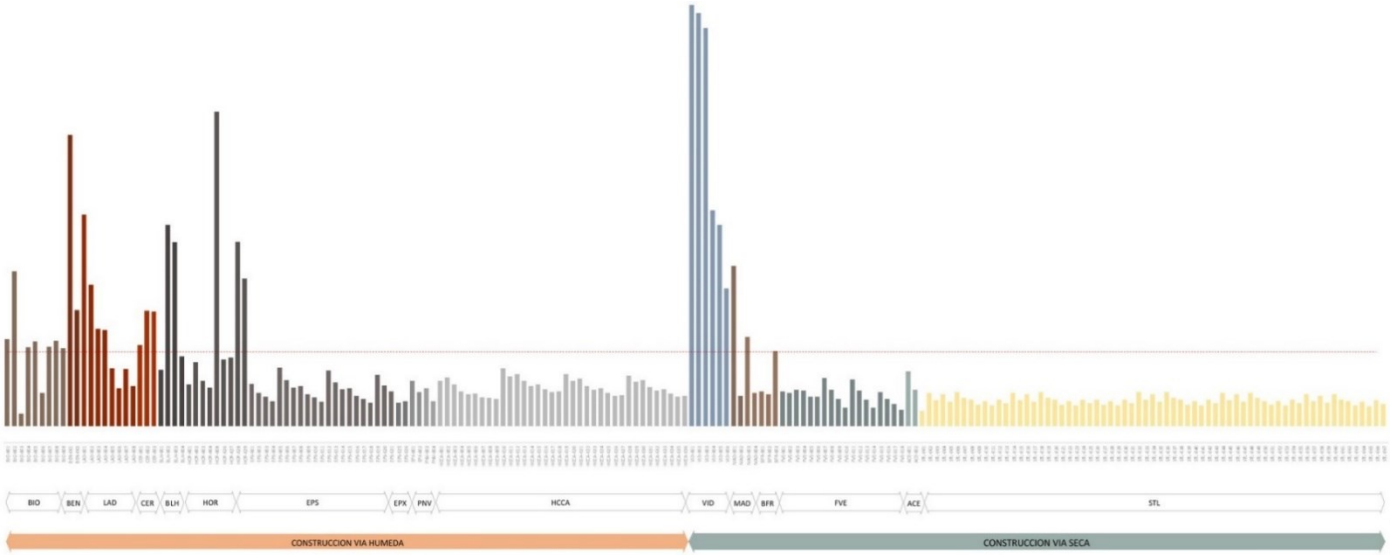
## MODELO DE CATEGORIZACION DE FAMILIAS TECNOLOGICAS

El criterio de categorización de envolventes, se construye a partir de una base de datos existente de 70 unidades, elaborada por la FAUDI UNC que resulta, a fin de cuentas, limitante y no representativa de la realidad tecnológica de la Ciudad de Córdoba. Por ello se determinó un nuevo criterio que abarcara toda la realidad constructiva existente.

Ello permitió el desarrollo de 19 familias de envolventes y 314 unidades componentes de un nuevo universo tecnológico local, que se presenta de acuerdo a dos escenarios de clasificación. (FIG 18)

- POSICIÓN TOPOLÓGICA RELATIVA: Muros y Cubiertas. (FIGURA 19)
- TECNOLOGÍA UTILIZADA: Vía Húmeda o Seca. (FIGURA 20)

ENVOLVENTES- MUROS




ENVOLVENTES- CUBIERTAS

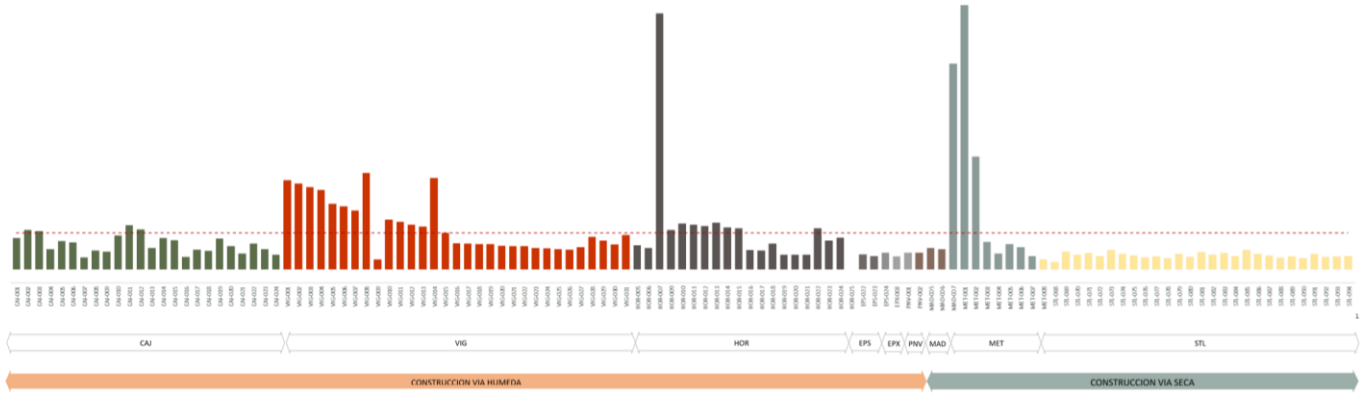



FIGURA 18 – CLASIFICACION DE ENVOLVENTES

## UNIVERSO FAMILIAS DE ENVOLVENTES SEGUN POSICION TOPOLOGICA RELATIVA

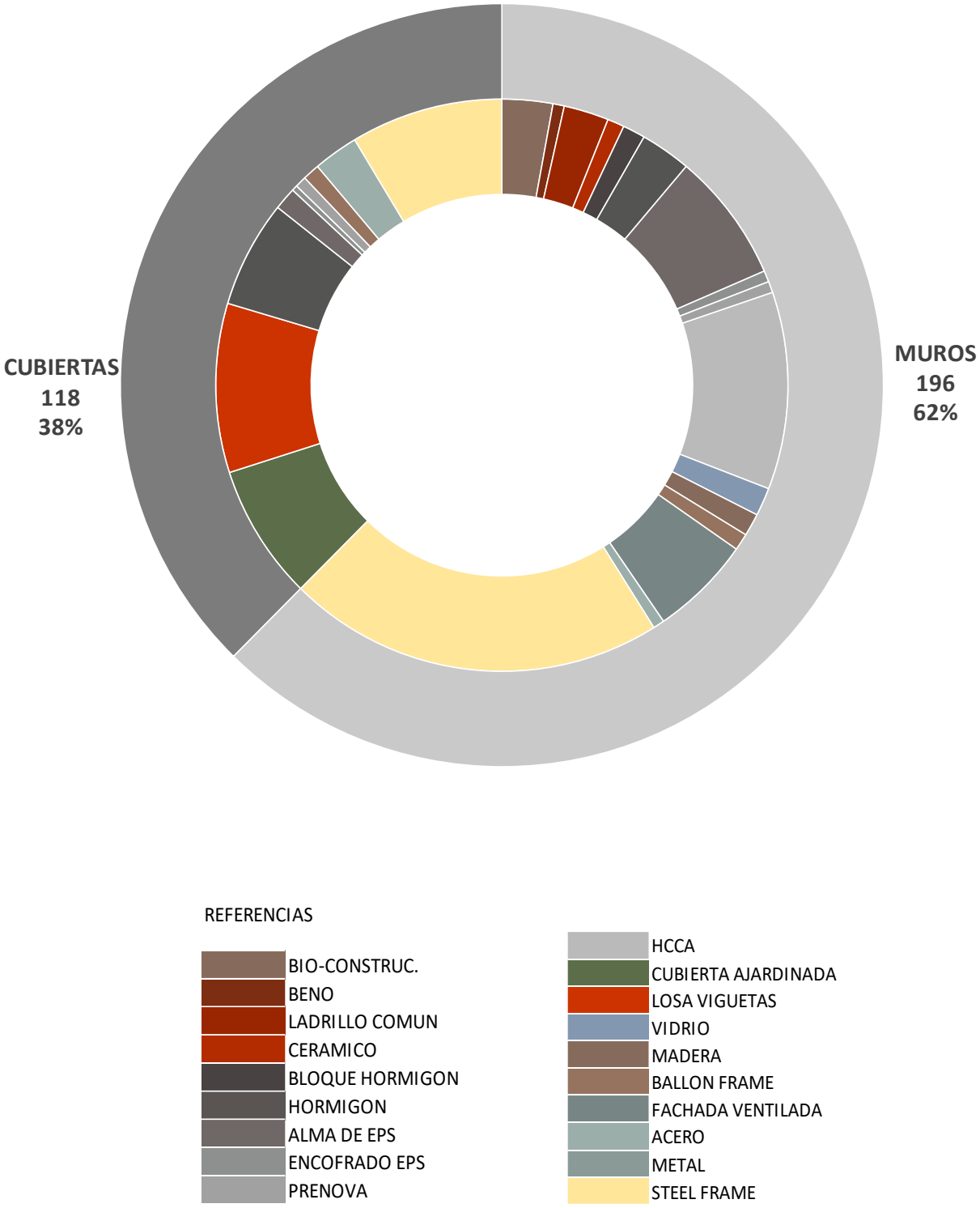



FIGURA 19 - UNIVERSO FAMILIAS DE ENVOLVENTES SEGÚN POSICIÓN TOPOLÓGICA RELATIVA

# UNIVERSO FAMILIAS DE ENVOLVENTES SEGUN POSICION TOPOLOGICA RELATIVA

| | | | |
|---|---|---|---|
| MUROS 196 | | BIOCONSTRUCCION | 9 |
| | | BENO | 2 |
| | | LADRILLO COMUN | 8 |
| | | BLOQUE CERAMICO | 3 |
| | | BLOQUE HORMIGON | 4 |
| | | HORMIGON | 9 |
| | | ALMA EPS | 23 |
| | | ENCOFRADO EPS | 2 |
| | | PRENOVA | 2 |
| | | H CELULAR | 35 |
| | | VIDRIOS | 5 |
| | | MADERA | 4 |
| | | BALLOON FRAME | 3 |
| | | FACHADA VENTILADA | 18 |
| | | ACERO | 2 |
| | | STEEL FRAME | 67 |
| CUBIERTAS 118 | | CUBIERTA AJARDINADA | 24 |
| | | LOSA VIGUETAS | 30 |
| | | HORMIGON | 19 |
| | | ALMA EPS | 4 |
| | | ENCOFRADO EPS | 1 |
| | | PRENOVA | 2 |
| | | MADERA | 3 |
| | | METAL | 8 |
| | | STEEL FRAME | 27 |
| TOTAL | | | 314 |

# FAMILIA DE ENVOLVENTES SEGUN TECNOLOGIA UTILIZADA

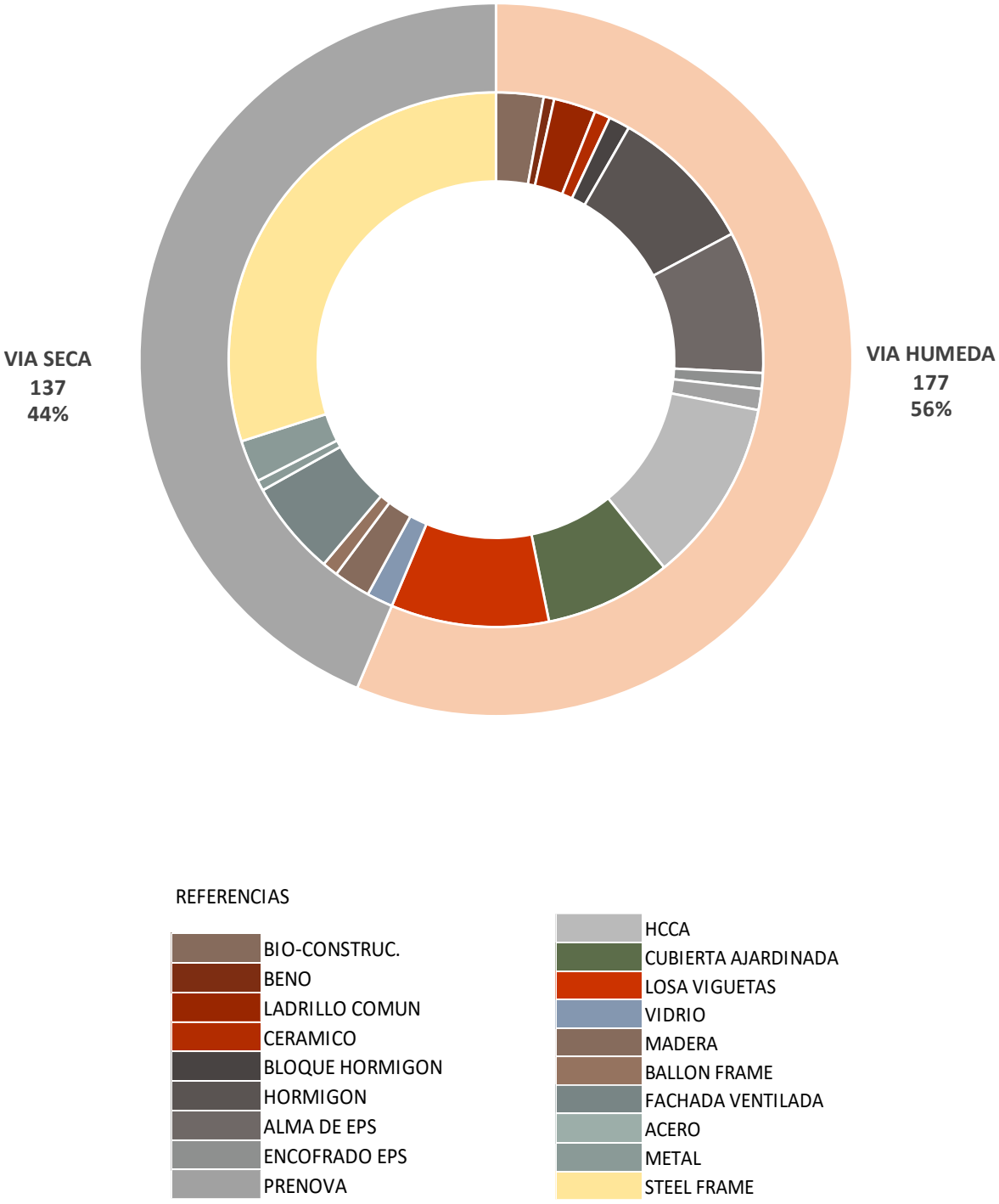
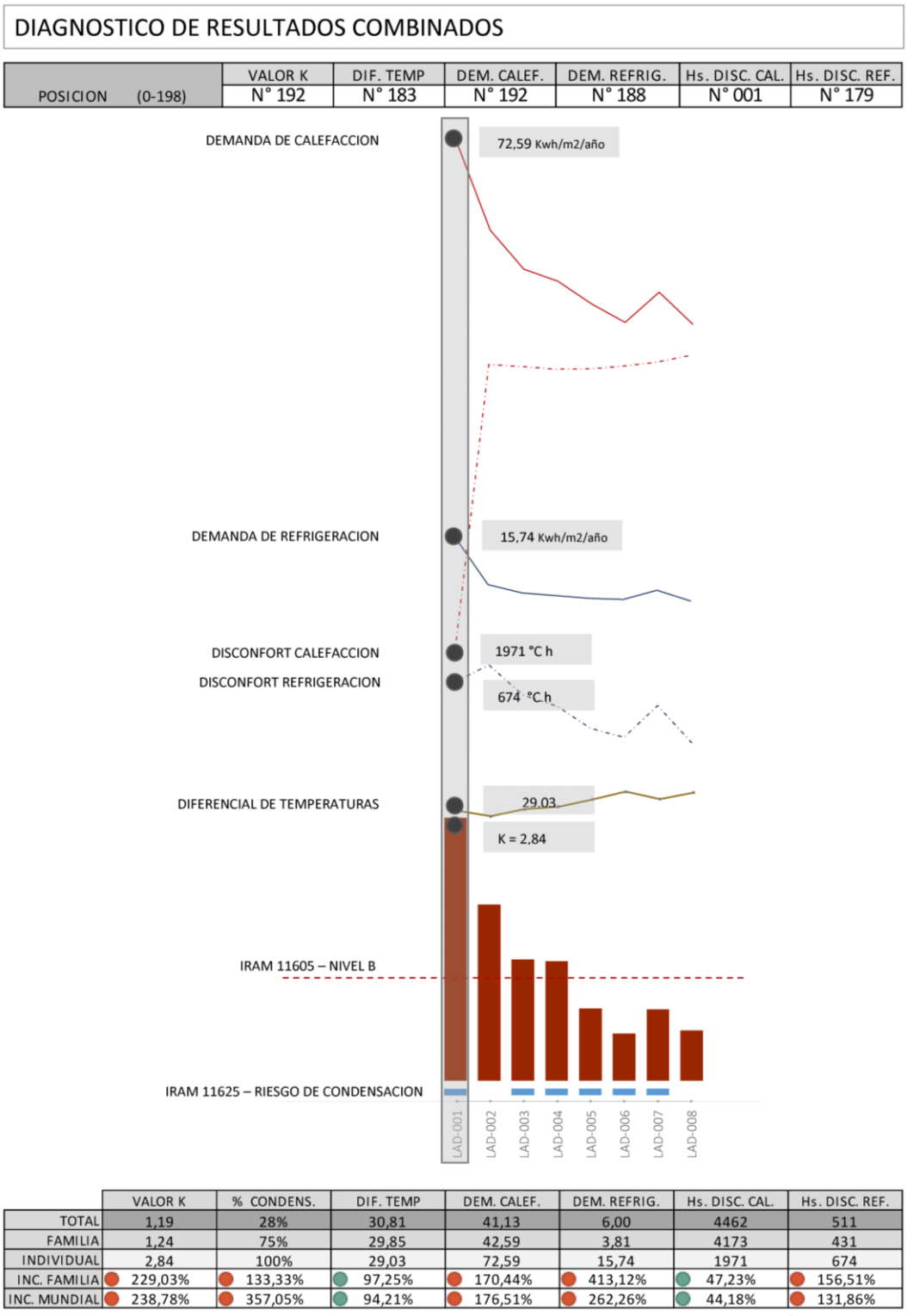



FIGURA 20 - FAMILIA DE ENVOLVENTES SEGÚN TECNOLOGÍA UTILIZADA

# FAMILIA DE ENVOLVENTES SEGUN TECNOLOGIA UTILIZADA

| | | |
|---|---|---|
| CONST. VIA HUMEDA 177 | BIOCONSTRUCCION | 9 |
| | BENO | 2 |
| | LADRILLO COMUN | 8 |
| | BLOQUE CERAMICO | 3 |
| | BLOQUE HORMIGON | 4 |
| | HORMIGON | 28 |
| | ALMA EPS | 27 |
| | ENCOFRADO EPS | 3 |
| | PRENOVA | 4 |
| | H CELULAR | 35 |
| | CUBIERTA AJARDINADA | 24 |
| | LOSA VIGUETAS | 30 |
| CONST. VIA SECA 137 | VIDRIOS | 5 |
| | MADERA | 7 |
| | BALLOON FRAME | 3 |
| | FACHADA VENTILADA | 18 |
| | ACERO | 2 |
| | METAL | 8 |
| | STEEL FRAME | 94 |
| TOTAL | | 314 |

Finalmente se refiere para cada individuo de cada familia su referencia propia de performances dentro de su propia familia y a nivel del universo general de la muestra, categorizando y contrastando los resultados de acuerdo se traten al paquete estático o dinámico (FIG 21)

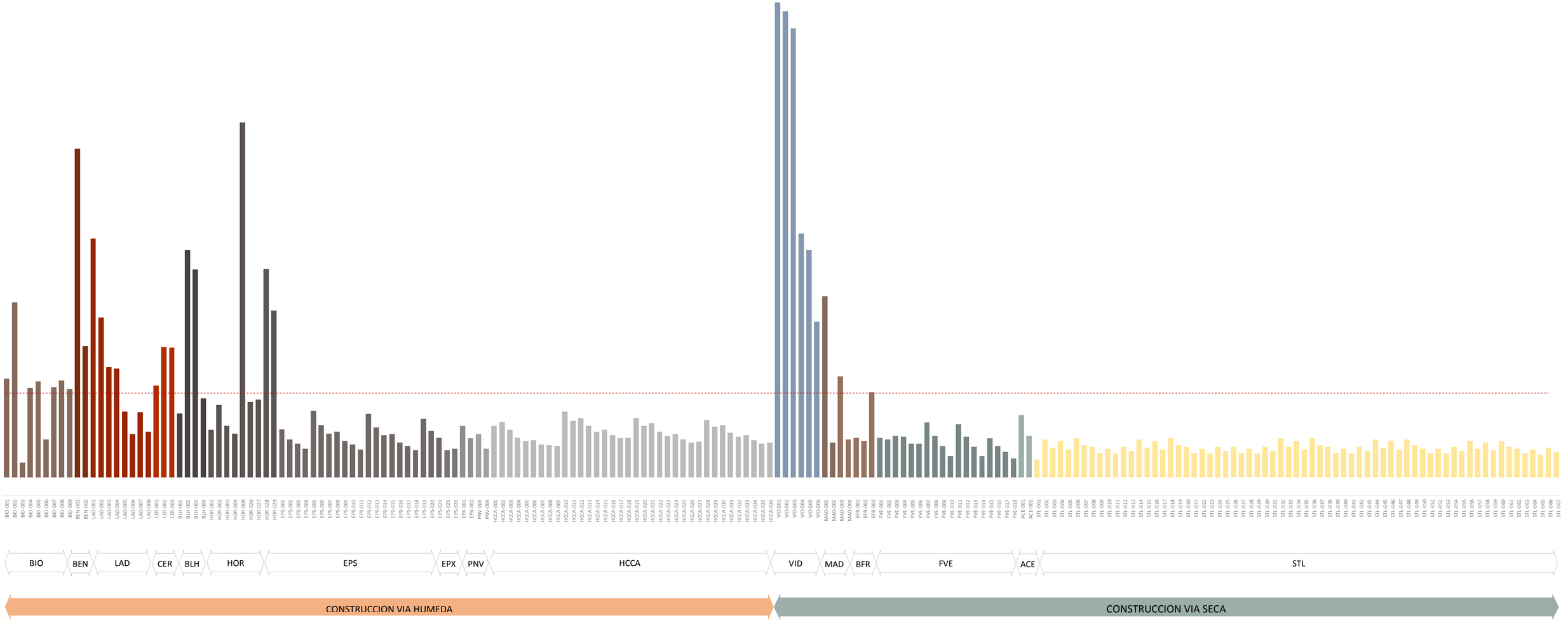



| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,24 | 75% | 29,85 | 42,59 | 3,81 | 4173 | 431 |
| INDIVIDUAL | 2,84 | 100% | 29,03 | 72,59 | 15,74 | 1971 | 674 |
| INC. FAMILIA | 229,03% | 133,33% | 97,25% | 170,44% | 413,12% | 47,23% | 156,51% |
| INC. MUNDIAL | 238,78% | 357,05% | 94,21% | 176,51% | 262,26% | 44,18% | 131,86% |

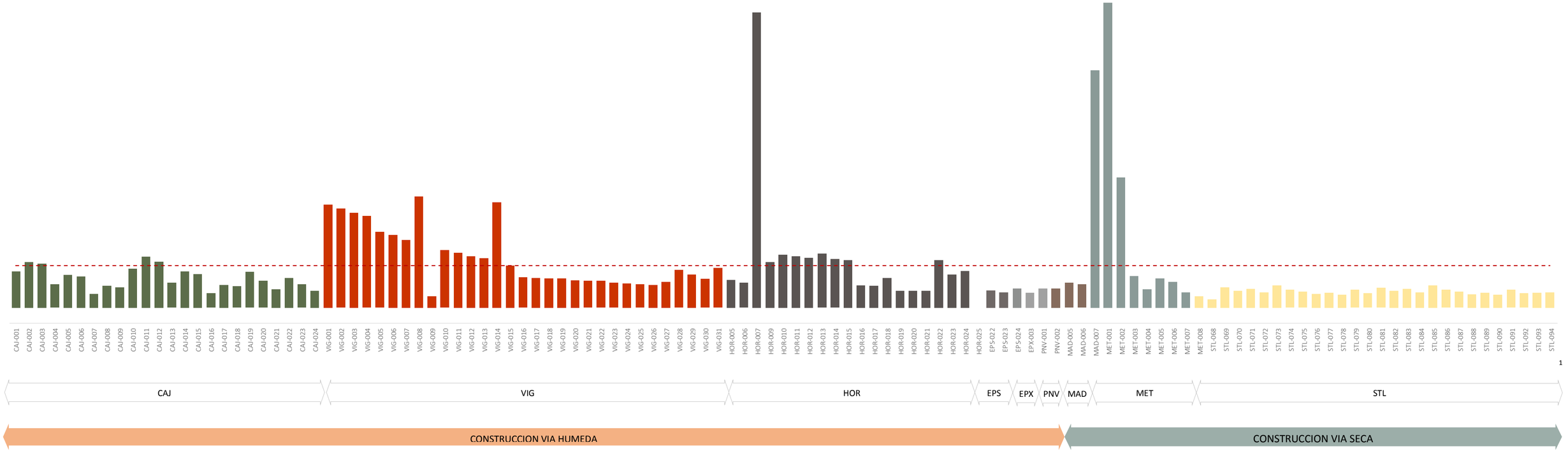
FIGURA 21 - DIAGNÓSTICO DE RESULTAOS INDIVIDUALES COMBINADO REFERENCIAL

# III
# ATLAS

## ENVOLVENTES ANALIZADAS -MUROS



## ENVOLVENTES ANALIZADAS -CUBIERTAS



## REFERENCIAS DE LECTURA DE FICHAS- HOJA 1

A DATOS GENERALES

1. Código de identificación de la Envolvente según Familia- Orden.
2. Función de la Envolvente (Muro- Cubierta- Entrepiso).
3. Familia de Envolvente
4. Descripción de Envolvente.

B RESULTADOS TRANSMITANCIA TERMICA- REGIMEN ESTATICO- *Norma IRAM 11605*

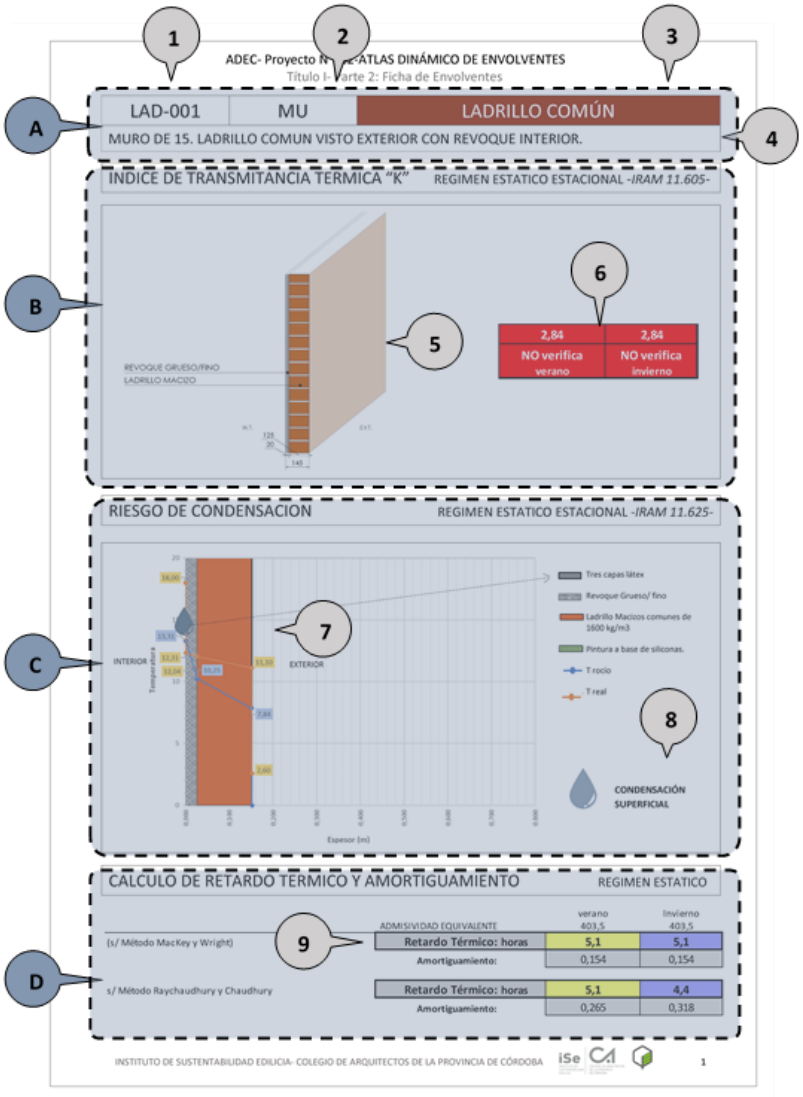
5. Detalle gráfico de Envolvente.
6. Resultados índice transmitancia térmica y verificación a la Norma IRAM 11605- Nivel B.

C RESULTADOS RIESGO DE CONDENSACION- REGIMEN ESTATICO- *Norma IRAM 11625*

7. Detalle gráfico de Envolvente
8. Resultado Riesgo de Condensación.

D RESULTADOS CALCULO DE RETARDO TERMICO- REGIMEN ESTATICO

9. Resultado Retardo Térmico



## REFERENCIAS DE LECTURA DE FICHAS- HOJA 2

A DATOS GENERALES

1 Código de identificación de la Envolvente según Familia- Orden.

2 Función de la Envolvente ( Muro- Cubierta- Entrepiso).

3 Familia de Envolvente

E RESULTADOS TEMPERATURA PROMEDIO MENSUAL- REGIMEN DINAMICO- E-PLUS /8760 HS

10 Detalle gráfico de Temperatura Exterior e Interior- Rango de confort.

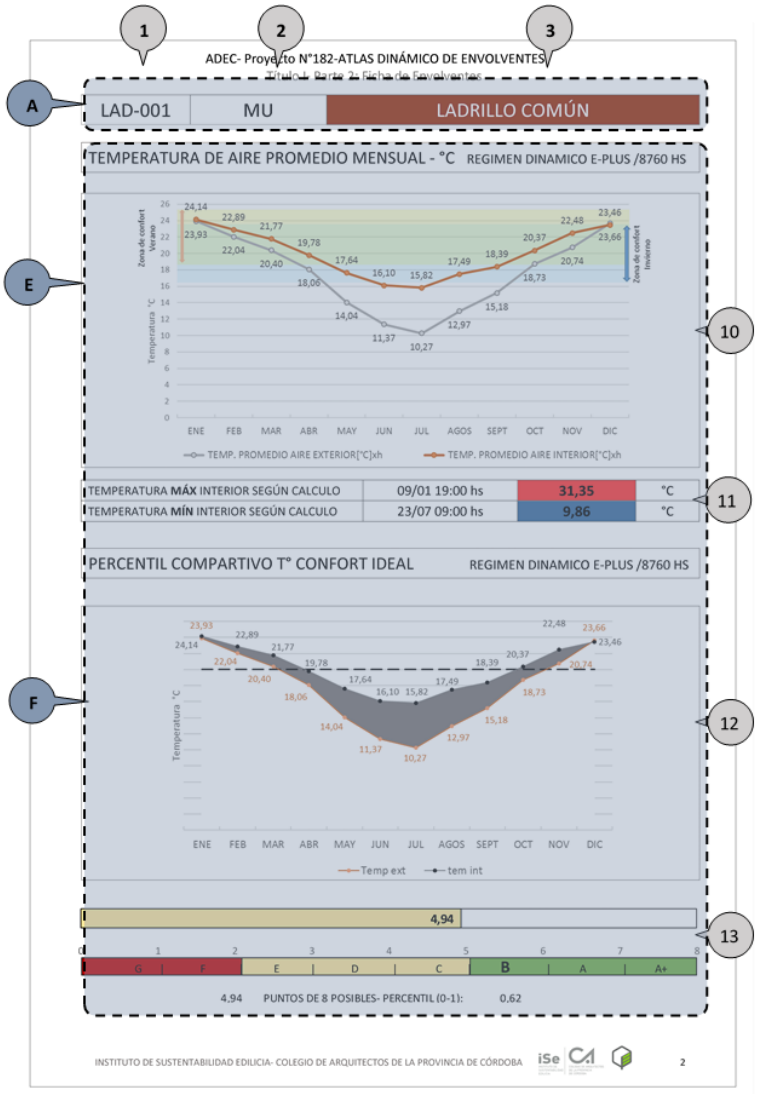
11 Tabla de Temperatura Máxima según Cálculo en ciclo de Verano y ciclo de Invierno.

F RESULTADOS PERCENTIL TEMPERATURA CONFORT IDEAL- REGIMEN DINAMICO- E-PLUS /8760 HS

12 Gráfico Rango de Diferencia de Temperatura Exterior-Interior.

13 Tabla Percentil comparativo entre Diferencia Temperatura Exterior -Interior.

Grafica la posición de dicha envolvente en relación a la respuesta que brinda en llegar a la Temperatura de Confort.



## REFERENCIAS DE LECTURA DE FICHAS- HOJA 3

**A** DATOS GENERALES

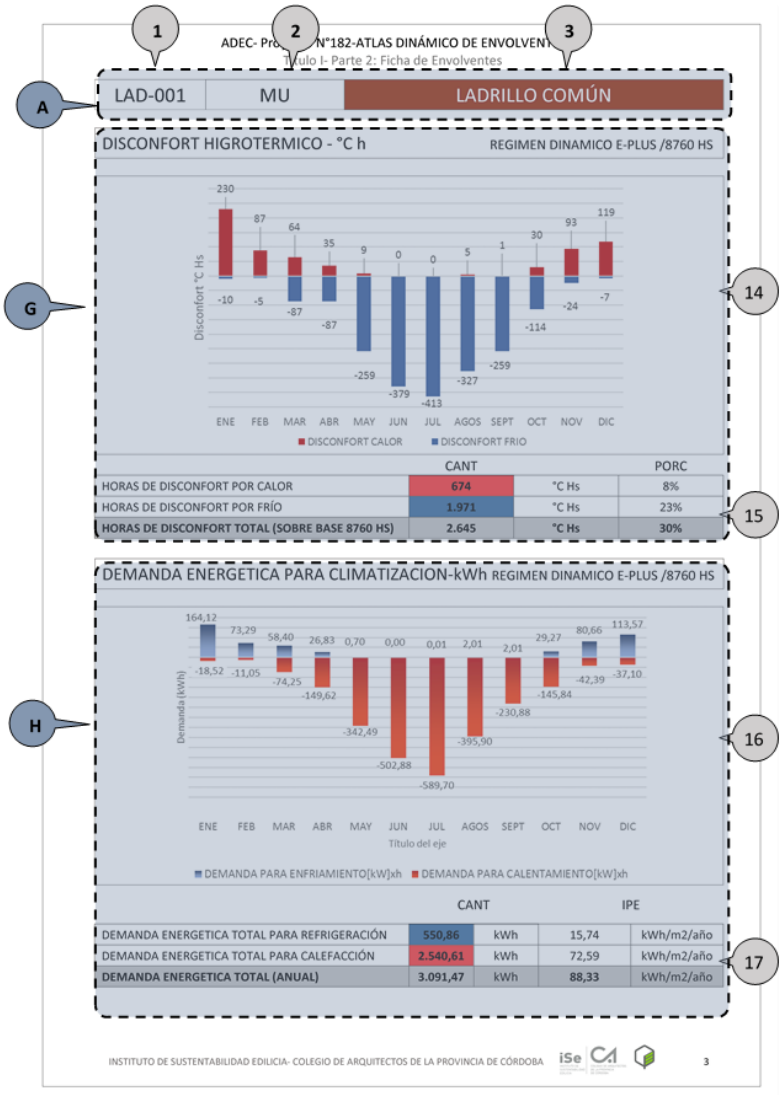
1. Código de identificación de la Envolvente según Familia- Orden.
2. Función de la Envolvente ( Muro- Cubierta- Entrepiso).
3. Familia de Envolvente

**G** DISCONFORT HIGROTERMICO- - REGIMEN DINAMICO- E-PLUS /8760 HS

14. Detalle gráfico de Disconfort Higrotérmico Anual.
15. Tabla de Horas Totales de disconfort en ciclo de Refrigeración y Calefacción.

**H** DEMANDA ENERGÉTICA PARA CLIMATIZACION-- REGIMEN DINAMICO- E-PLUS /8760 HS

16. Detalle gráfico de Demanda Energética Anual.
17. Tabla de Demanda Total para Ciclo de Refrigeración y Calefacción.



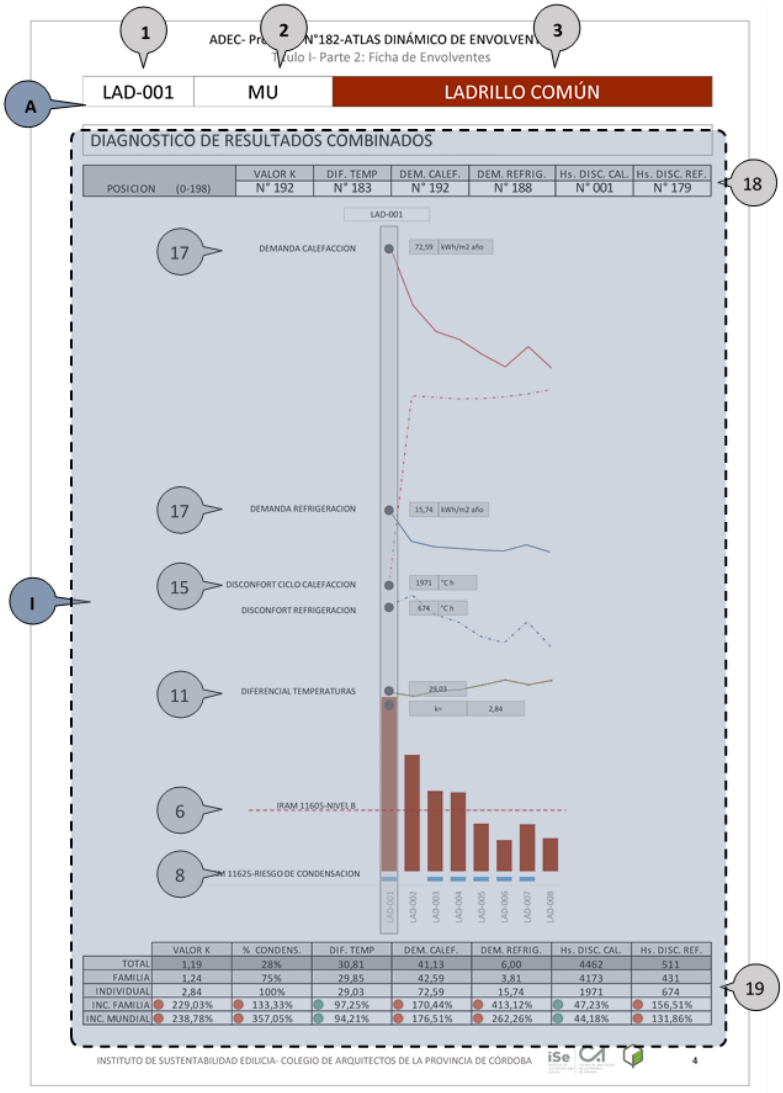
## REFERENCIAS DE LECTURA DE FICHAS- HOJA 4

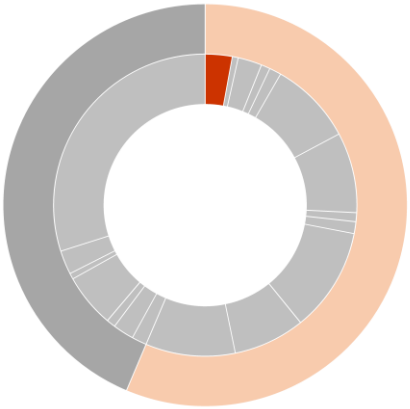
**A** DATOS GENERALES

1. Código de identificación de la Envolvente según Familia- Orden.
2. Función de la Envolvente ( Muro- Cubierta- Entrepiso).
3. Familia de Envolvente

**I** DIAGNOSTICO DE RESULTADOS COMBINADOS

18. Posición de la Envolvente con Respecto al Universo “Muro” o “Cubierta”, según las diferentes Variables de Análisis.
6. Valor de Transmitancia Térmica (K) de la Envolvente.
8. Riesgo de Condensacion de la Envolvente.
11. Diferencia de Temperatura de la Envolvente.
15. Resultados de Hs de Disconfort ciclo Calefaccion/ Refrigeracion de la Envolvente.
17. Resultados de Demanda de Calefaccion/REfrigeracion de la Envolvente.
19. Cuadro comparativo entre valores del universo “muro”/”cubierta”, valor de la familia que lo contiene y la envolvente, y su porcentaje de dispersión de exceso o mejora del mismo.





# BIOCONSTRUCCION

**BIO 001**: TAPIAL (85% ARCILLA+15% CEMENTO) ESPESOR 40 CM

**BIO 002**: BLOQUES TIERRA CAL ESPESOR 12.5 CON REVOQUE EXTERIOR E INTERIOR

**BIO 003:** MUROS DE FARDOS DE PAJA Y REVOQUES EN AMBAS CARAS ESPESOR 45CM

**BIO 004:** BARRO ENCOFRADO 32 CM CON REVOQUES EN AMBAS CARAS

**BIO 005:** MURO DE QUINCHA

**BIO 006:** MURO DE QUINCHA CON AISLACION

**BIO 007:** MURO DE ADOBE CON REVOQUE EN AMBAS CARAS

**BIO 008:** MURO DE PIEDRA

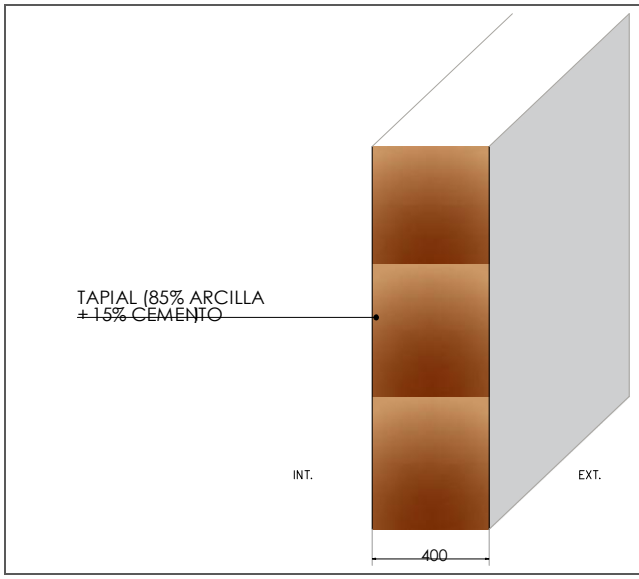
**BIO 009:** MURO DE PIEDRA CON REVOQUE INTERIOR

| BIO 001 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

TAPIAL (85% ARCILLA+15% CEMENTO) ESPESOR 40 CM

## INDICE DE TRANSMITANCIA TERMICA "K"

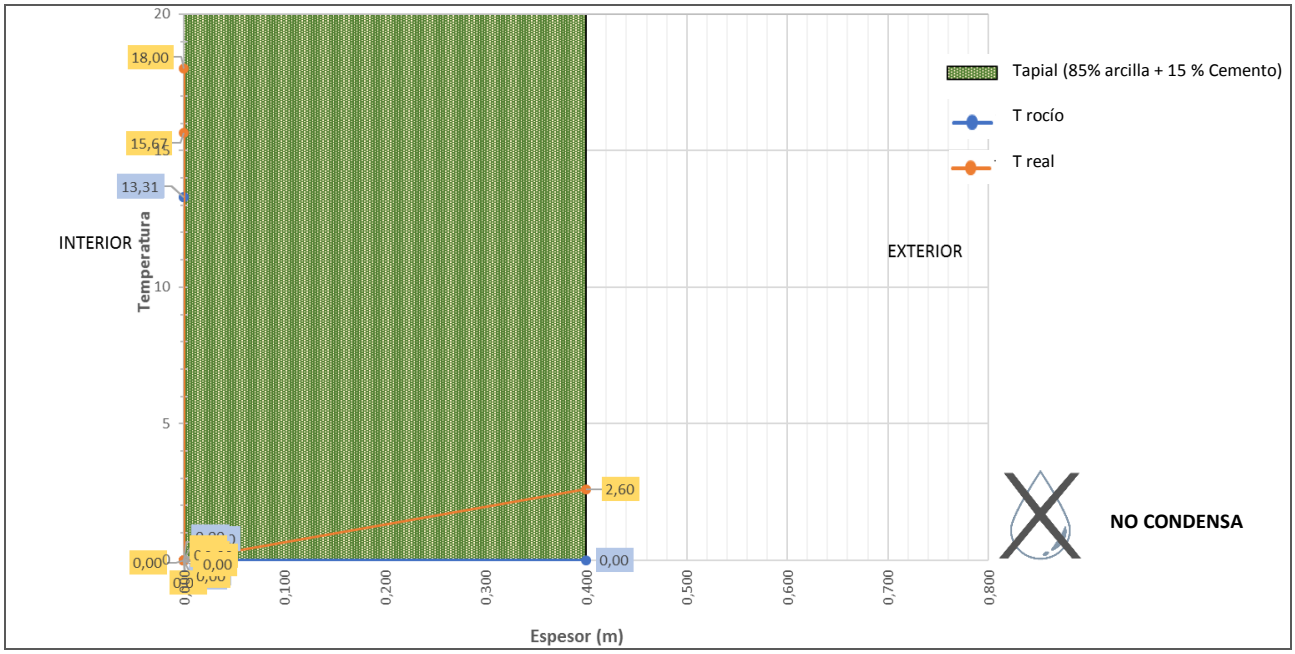
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,17 | 1,17 |
|---|---|
| verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



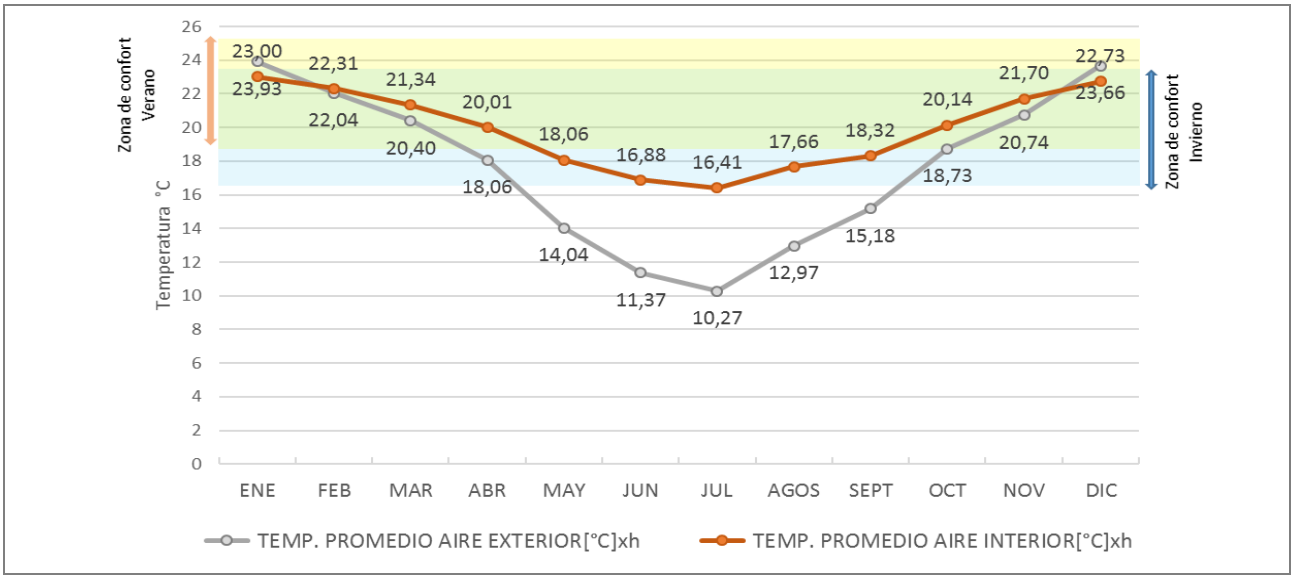

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | 0,028 | 1,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,9** | **9,8** |
| | **Amortiguamiento:** | 0,058 | 0,077 |

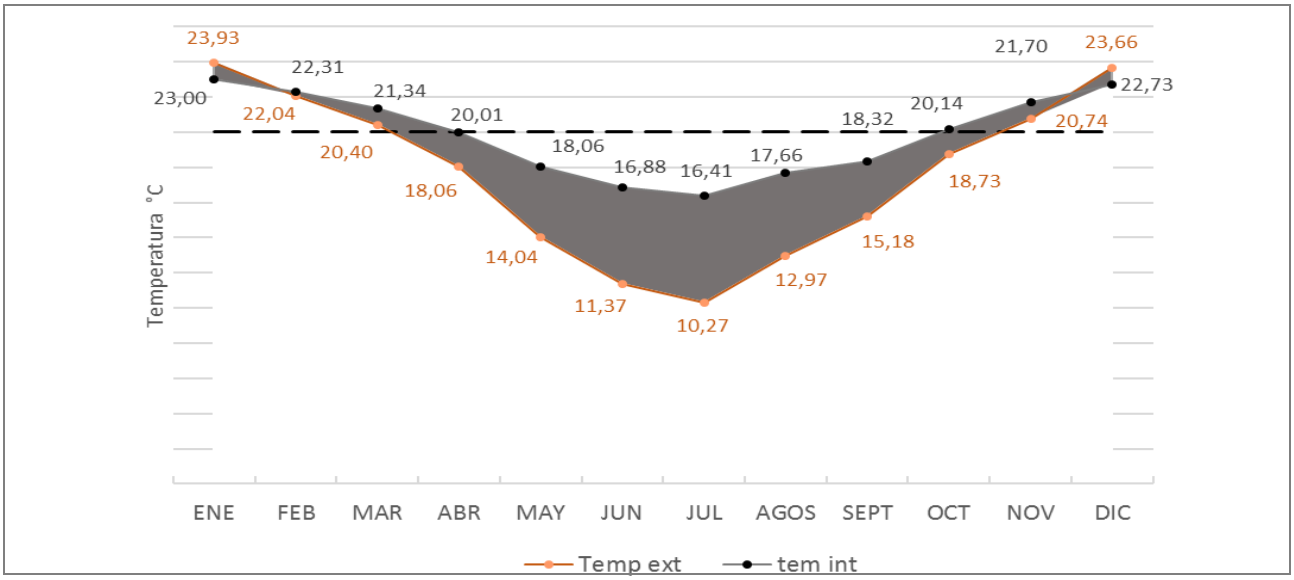
| BIO-001 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

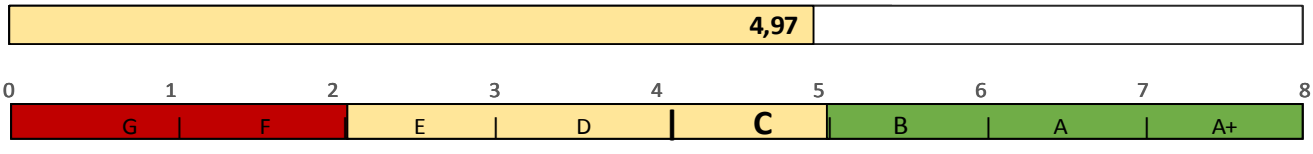
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **25,52** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **13,72** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



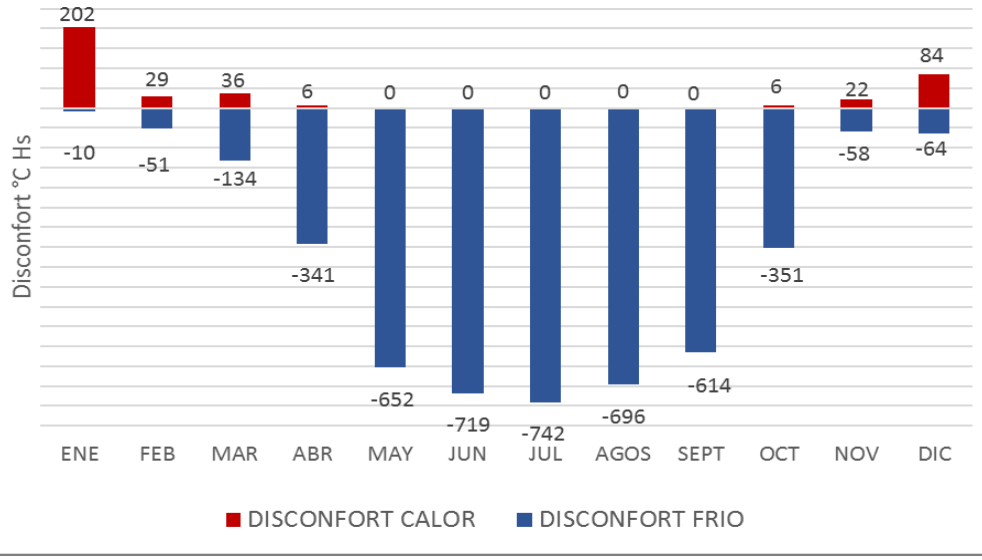




4,97 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| BIO-001 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

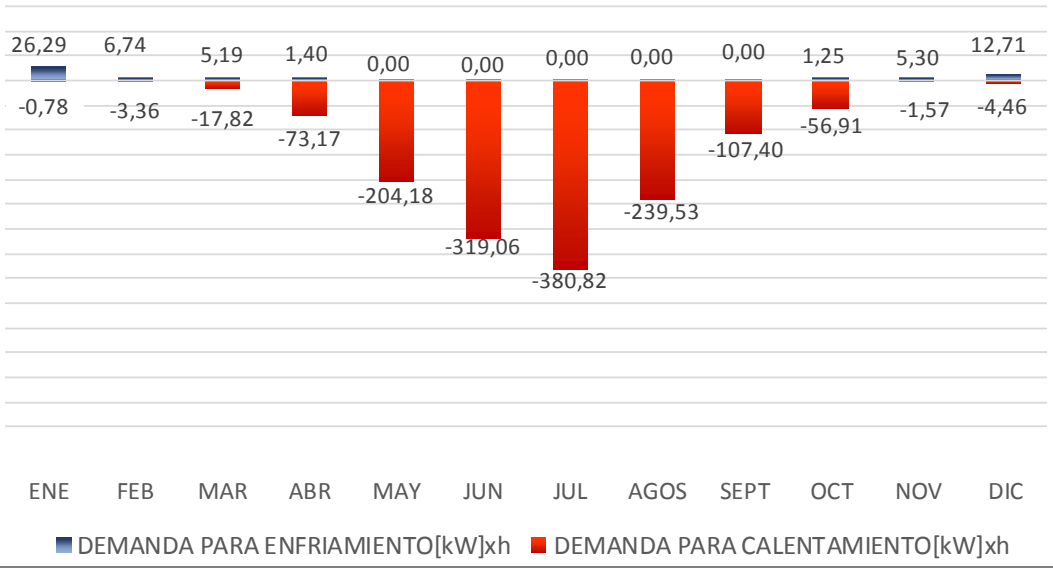
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **386** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.432** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.818** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

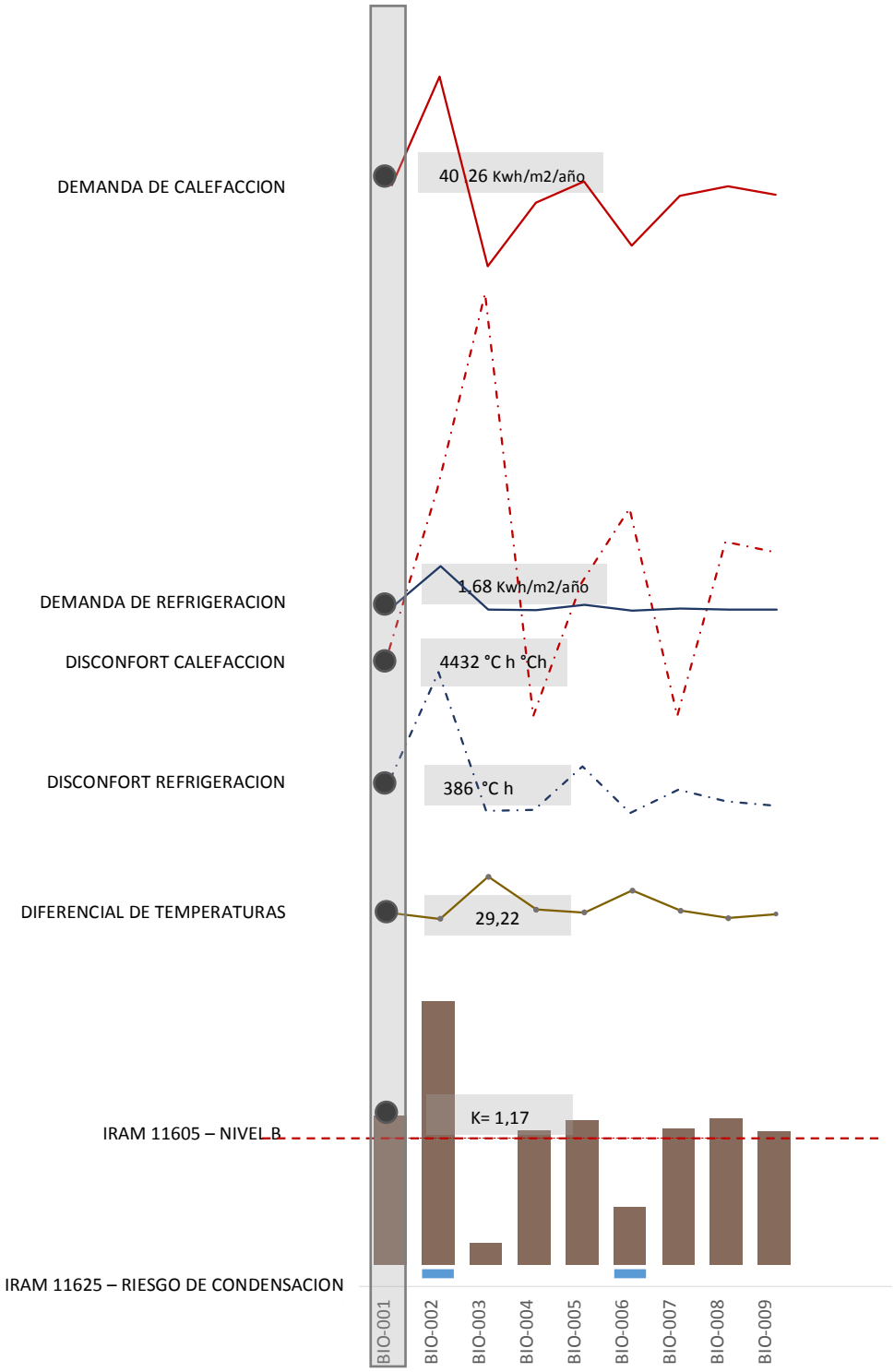



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **58,87** | kWh | 1,68 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.409,06** | kWh | 40,26 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.467,94** | kWh | 41,94 | kWh/m2/año |

| BIO-001 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 176 | N° 178 | N° 171 | N° 132 | N° 014 | N° 163 |



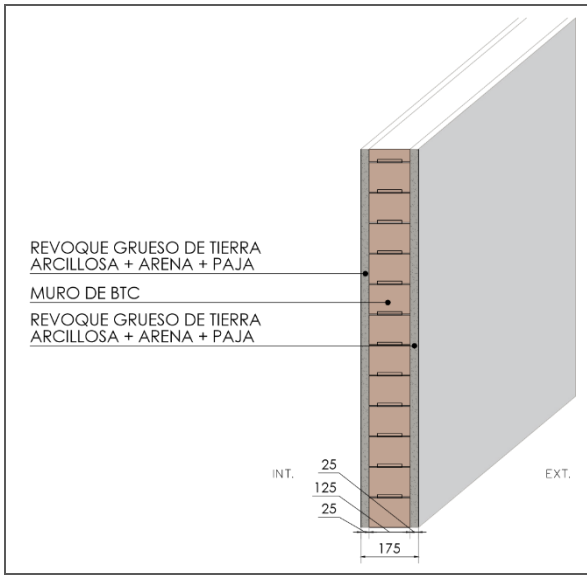

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,04 | 20% | 29,70 | 39,01 | 2,22 | 4477 | 358 |
| INDIVIDUAL | 1,17 | 0% | 29,22 | 40,26 | 1,68 | 4432 | 386 |
| INC. FAMILIA | 113% | 0% | 98% | 103% | 76% | 99% | 108% |
| INC. MUNDIAL | 98% | 0% | 95% | 98% | 28% | 99% | 76% |

| BIO 002 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

BLOQUES TIERRA CAL ESPESOR 12.5 CON REVOQUE EXTERIOR E INTERIOR

## INDICE DE TRANSMITANCIA TERMICA "K"

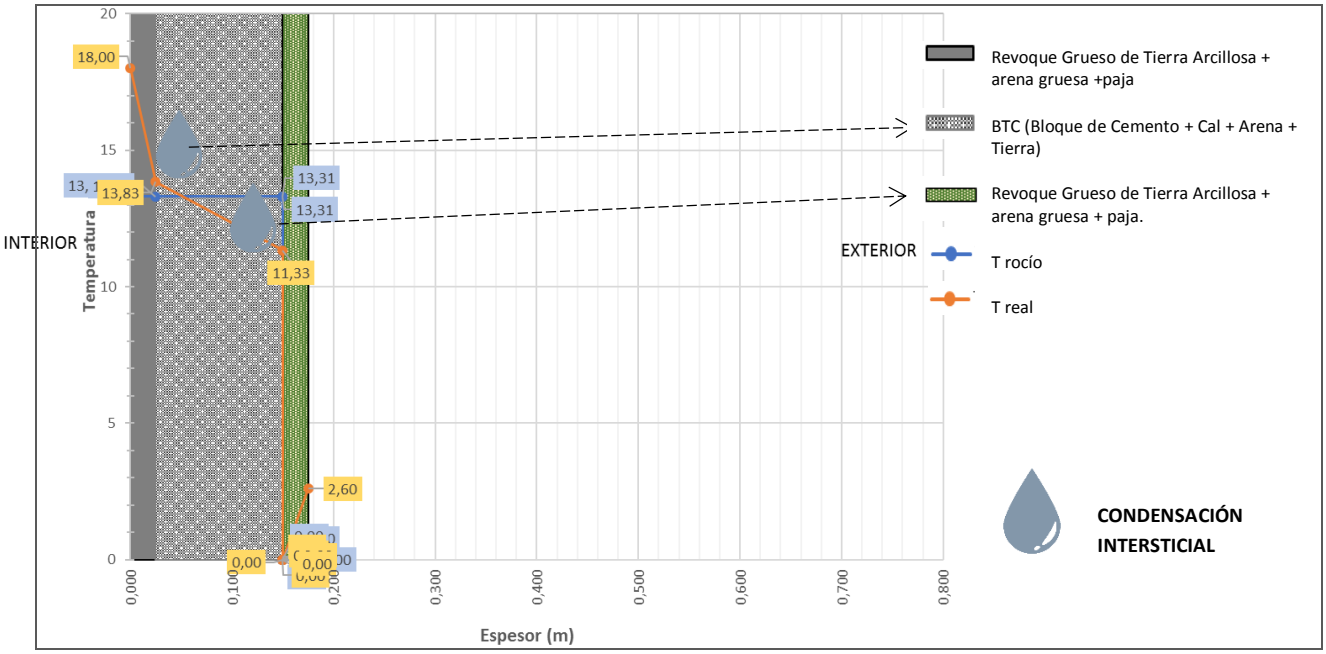
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 2,08 | 2,08 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



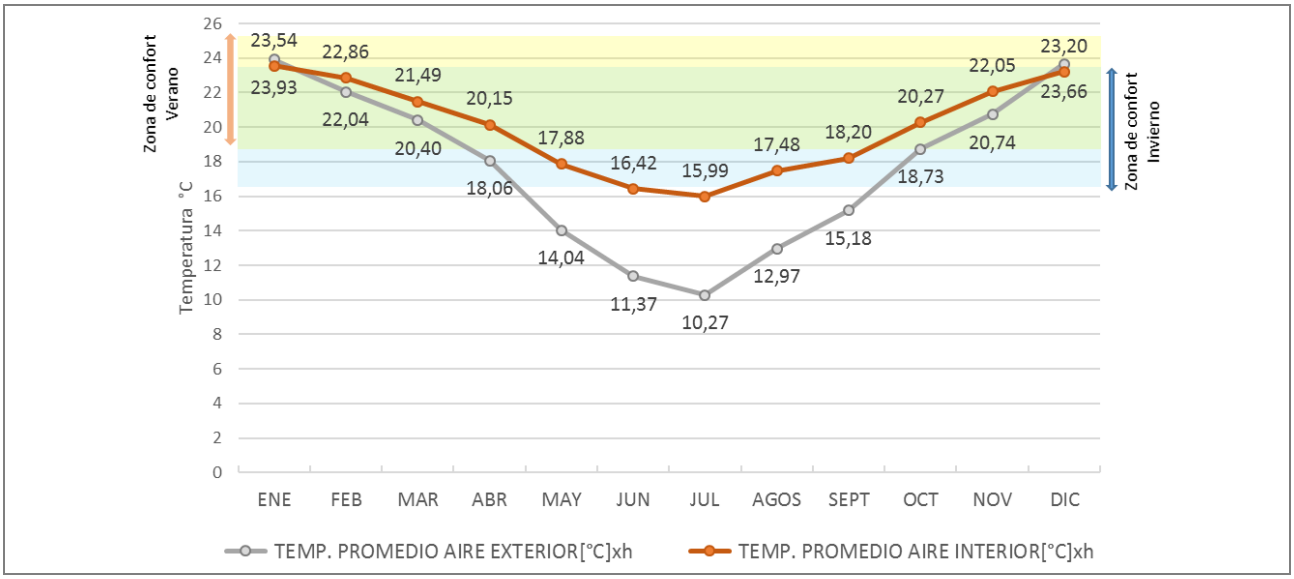

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 36,3 | 24,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **2,6** | **2,1** |
| | **Amortiguamiento:** | 0,424 | 0,464 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **2,6** | **2,2** |
| | **Amortiguamiento:** | 0,505 | 0,568 |

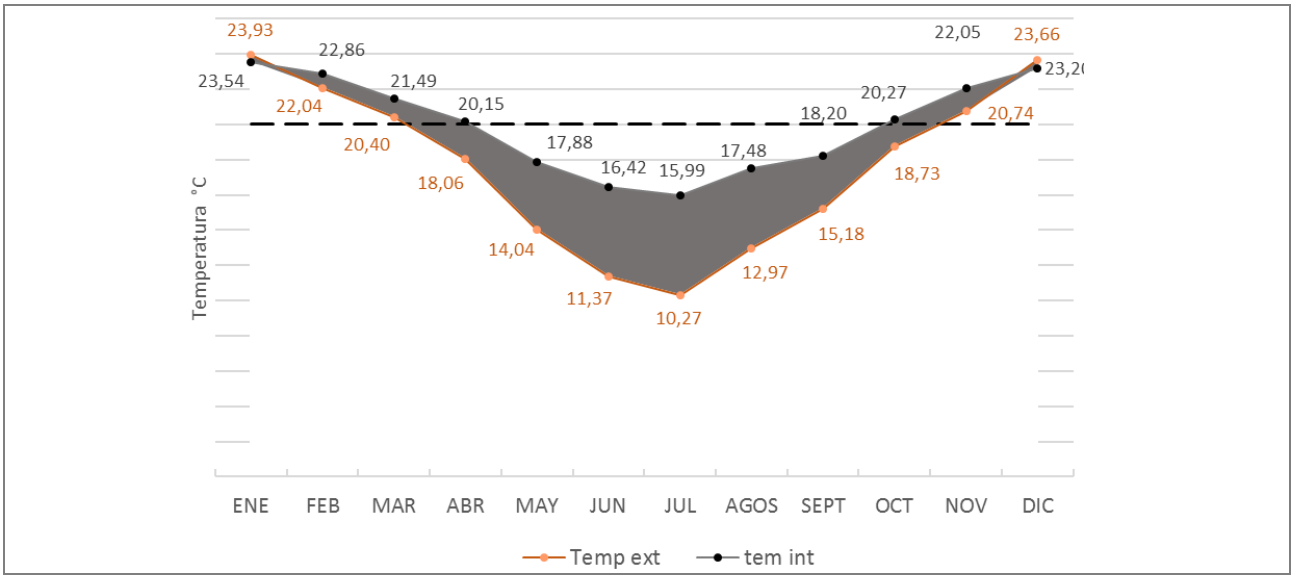
| BIO-002 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

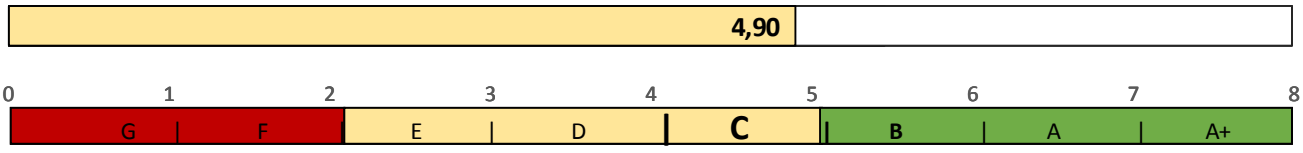
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 19:00 hs | **28,11** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **11,17** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



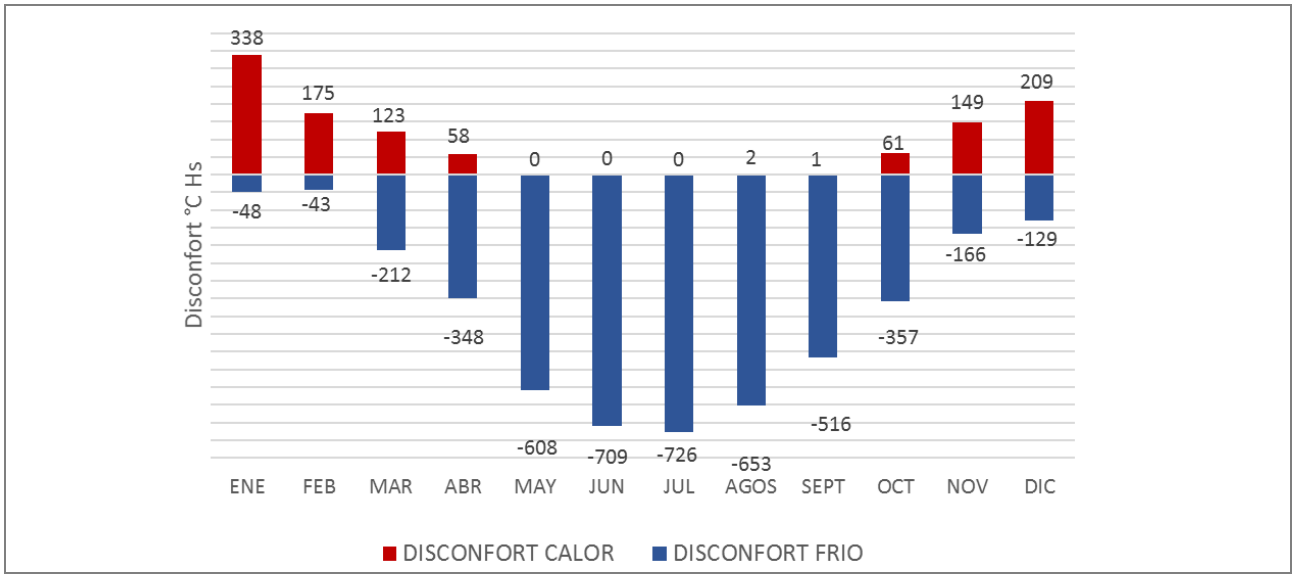




4,90 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| BIO-002 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

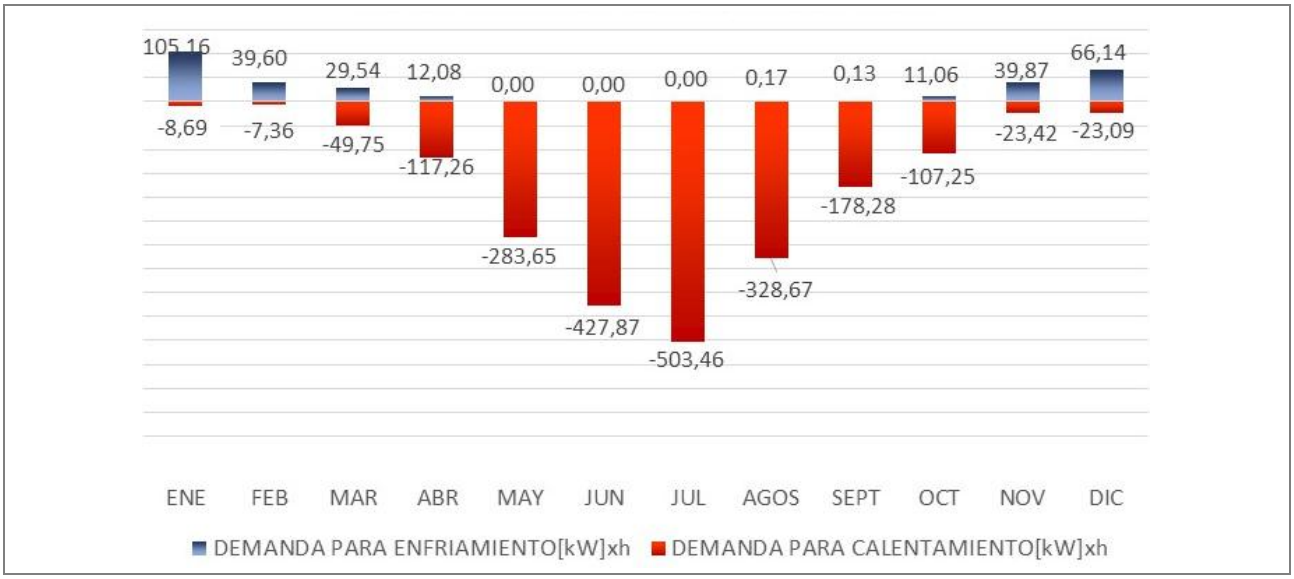
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.114** | °C Hs | 13% |
| HORAS DE DISCONFORT POR FRÍO | **4.514** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.628** | **°C Hs** | **64%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

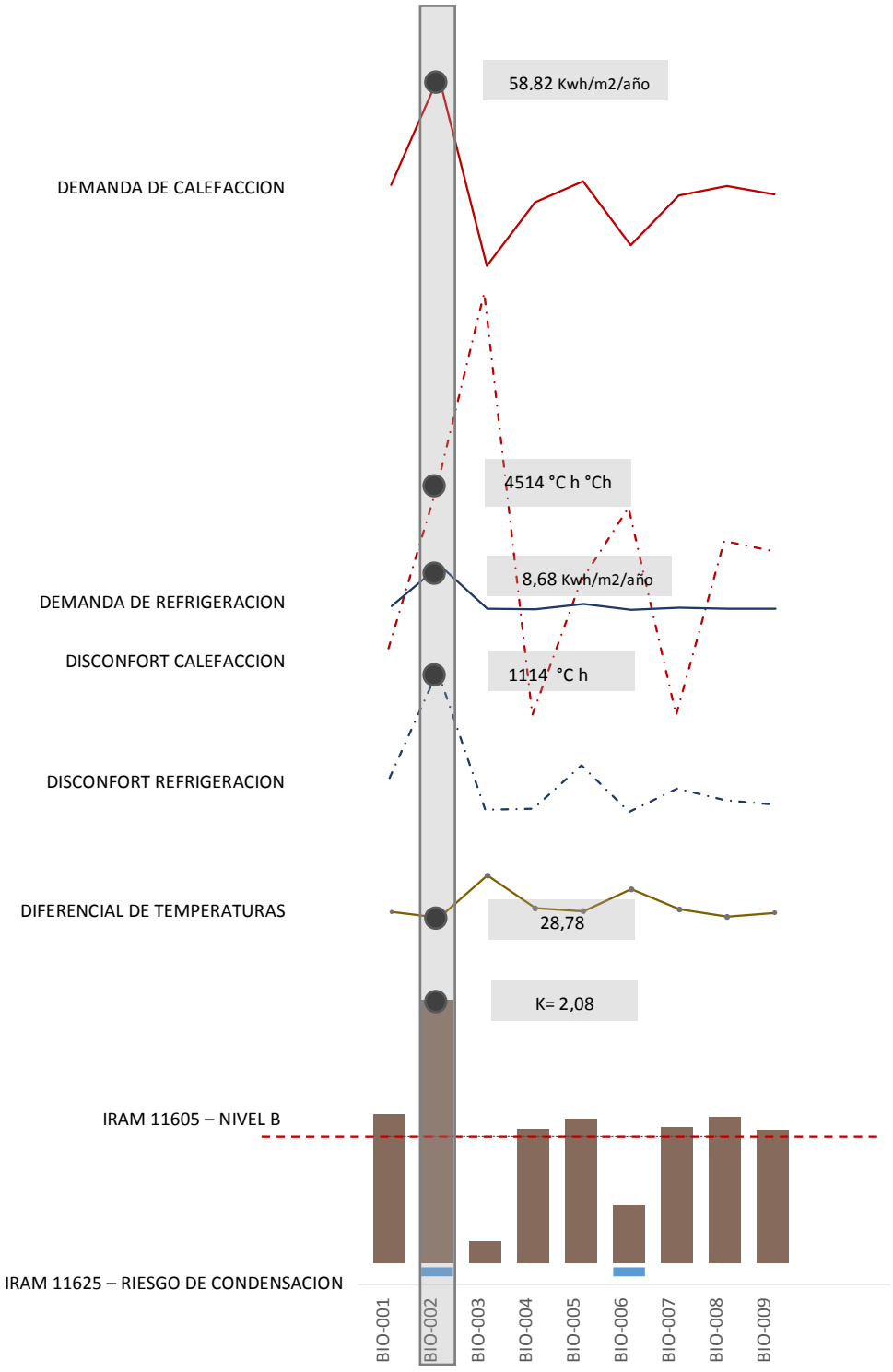



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **303,75** | kWh | 8,68 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **2.058,75** | kWh | 58,82 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.362,50** | kWh | **67,50** | kWh/m2/año |

| BIO-002 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 176 | N° 188 | N° 190 | N° 186 | N° 071 | N° 188 |



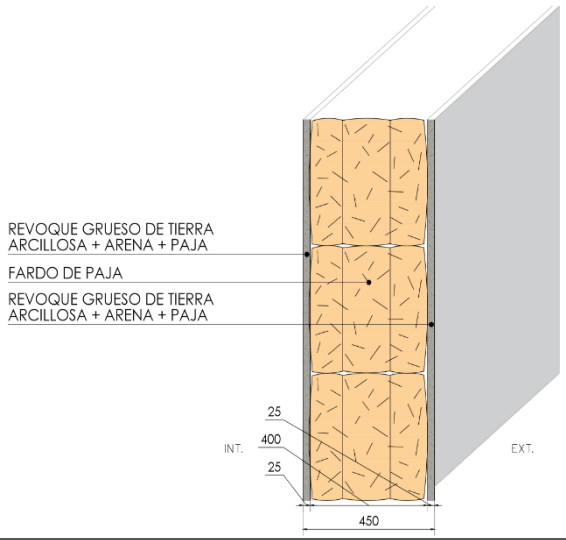

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,04 | 20% | 29,70 | 39,01 | 2,22 | 4477 | 358 |
| INDIVIDUAL | 2,08 | 100% | 28,78 | 58,82 | 8,68 | 4514 | 1114 |
| INC. FAMILIA | 200% | 500% | 97% | 151% | 391% | 101% | 311% |
| INC. MUNDIAL | 175% | 357% | 93% | 143% | 145% | 101% | 218% |

| BIO 003 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

MUROS DE FARDOS DE PAJA Y REVOQUES EN AMBAS CARAS ESPESOR 45CM

## INDICE DE TRANSMITANCIA TERMICA "K"

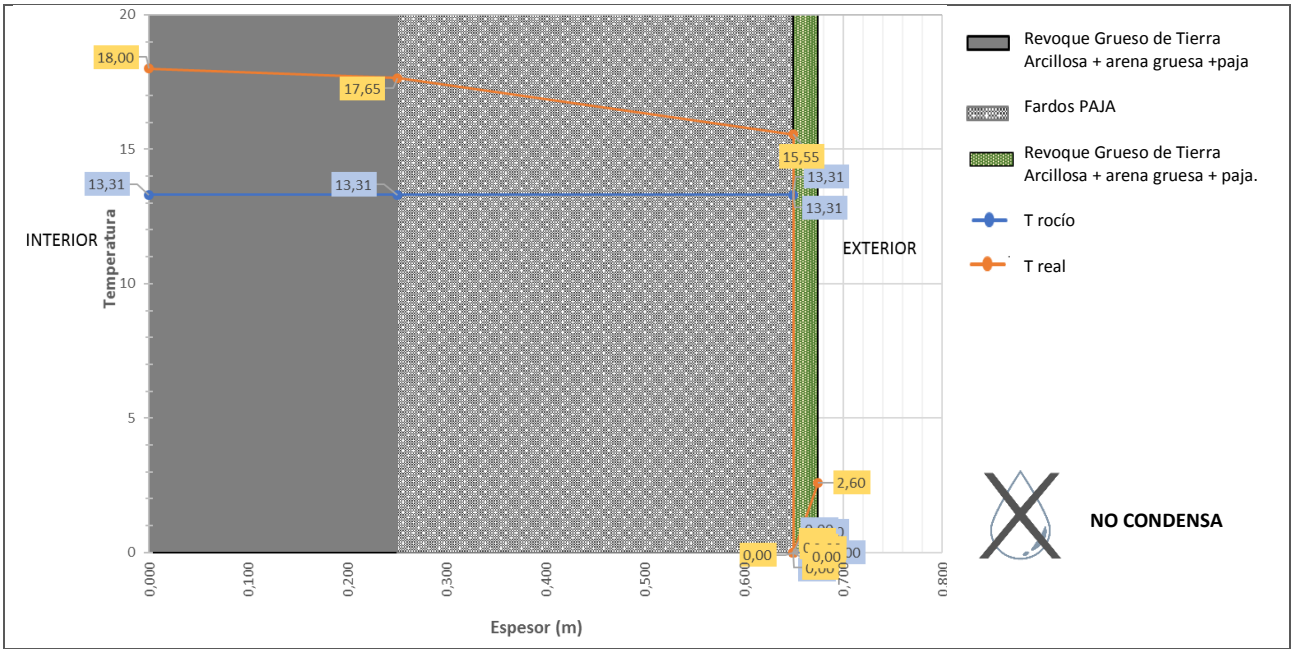
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,17 | 0,17 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



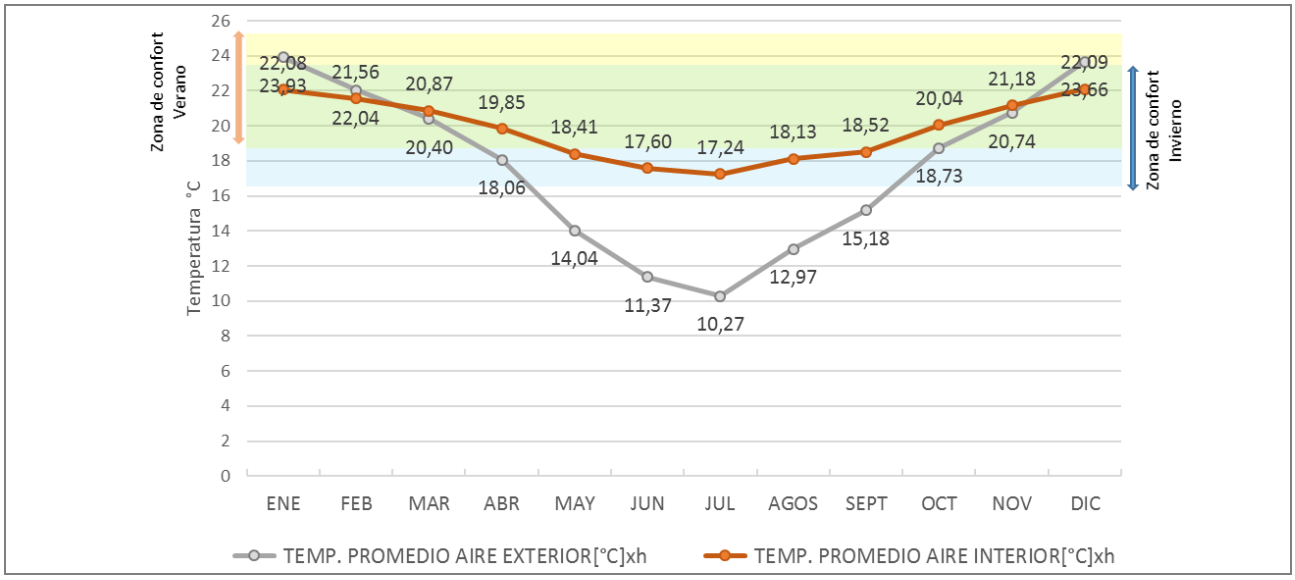

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 13,9 | Invierno 20,7 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **28,7** | **35,0** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **19,8** | **28,7** |
| | **Amortiguamiento:** | 0,006 | 0,001 |

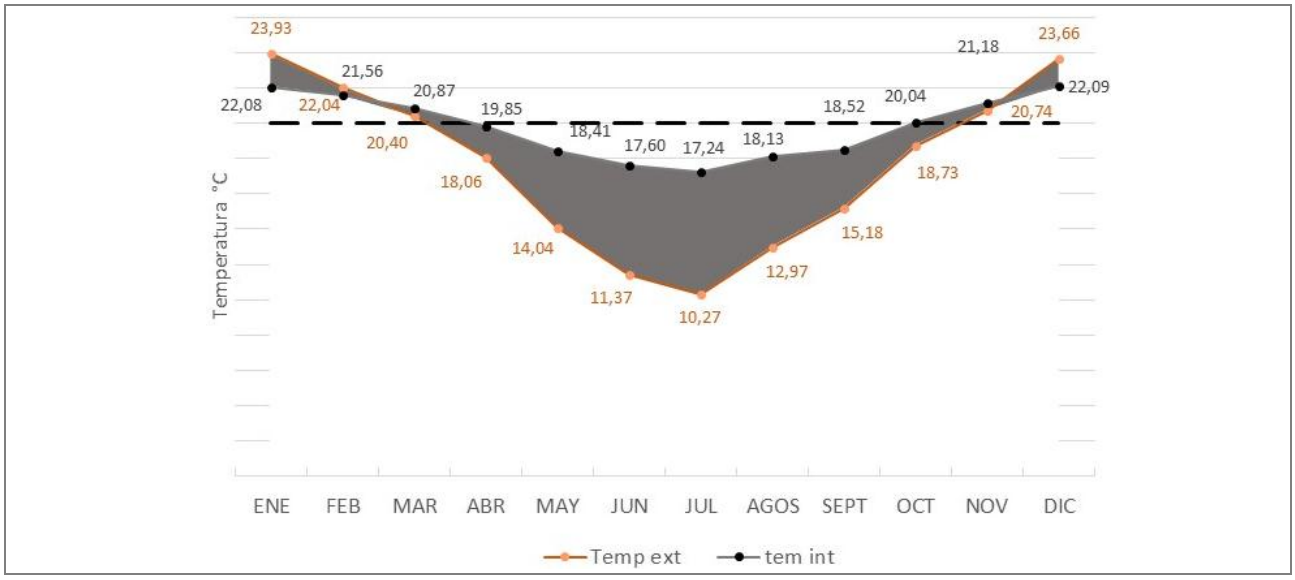
| BIO-003 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

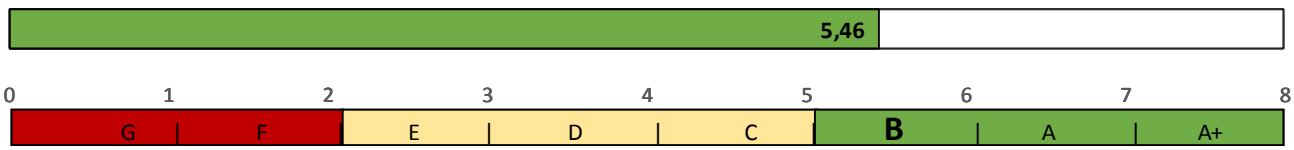
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,45** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **15,05** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



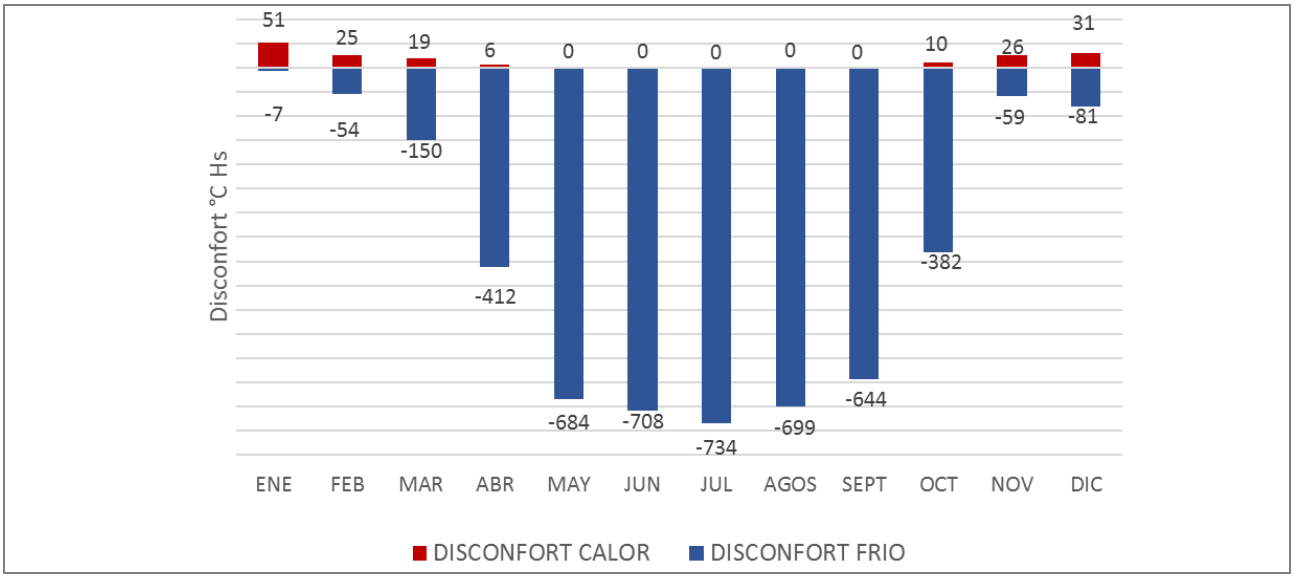




5,46 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,68

| BIO-003 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

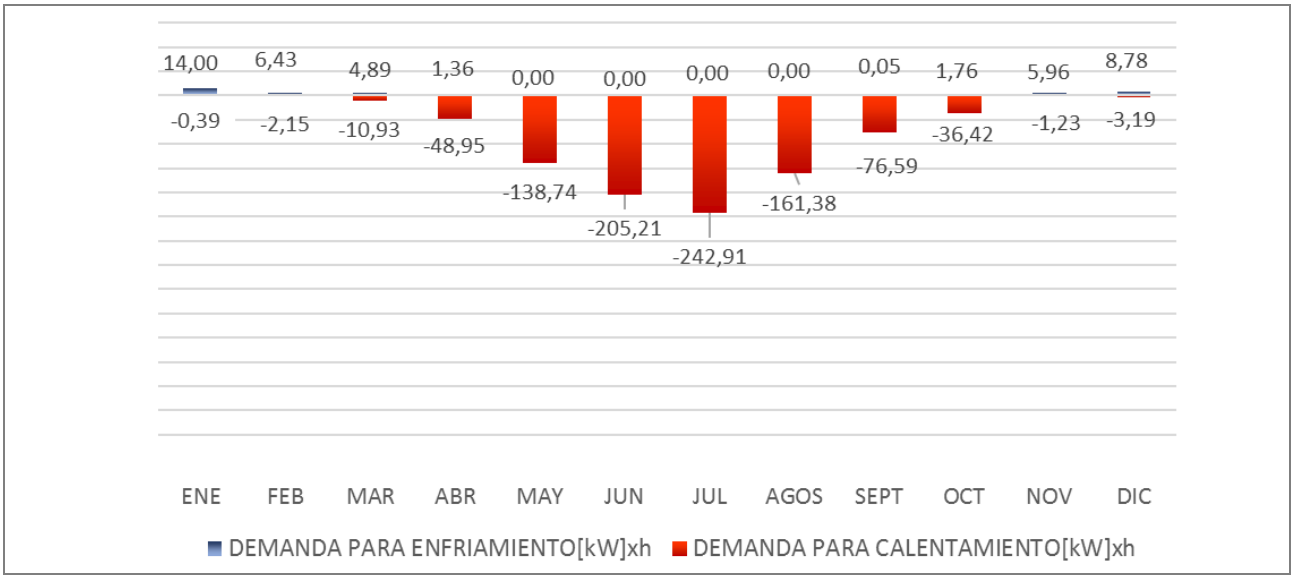
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **168** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4614** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.782** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

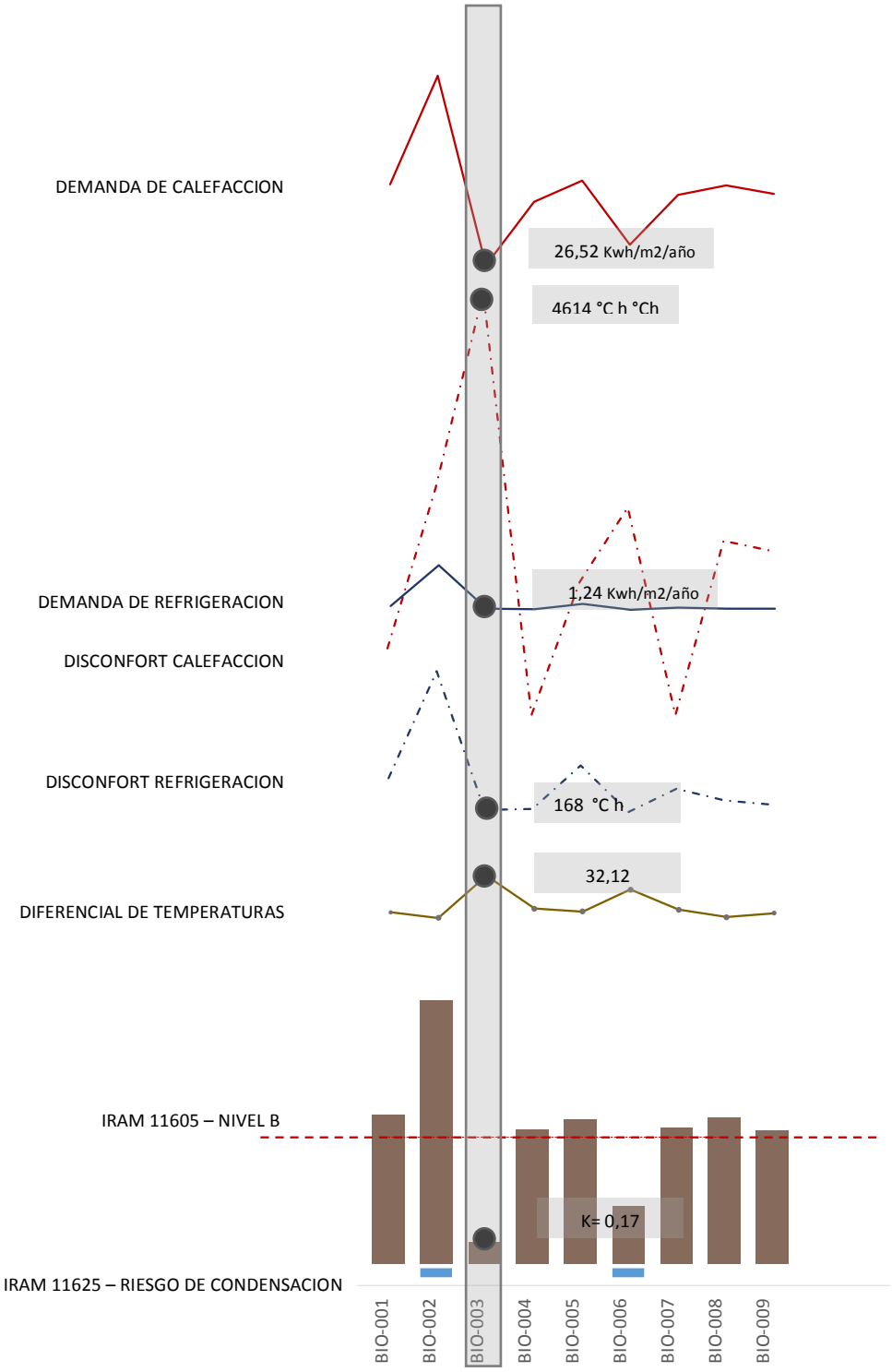



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **43,23** | kWh | 1,24 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **928,09** | kWh | 26,52 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **971,32** | kWh | **27,75** | kWh/m2/año |

| BIO-003 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 001 | N° 008 | N° 002 | N° 068 | N° 176 | N° 042 |



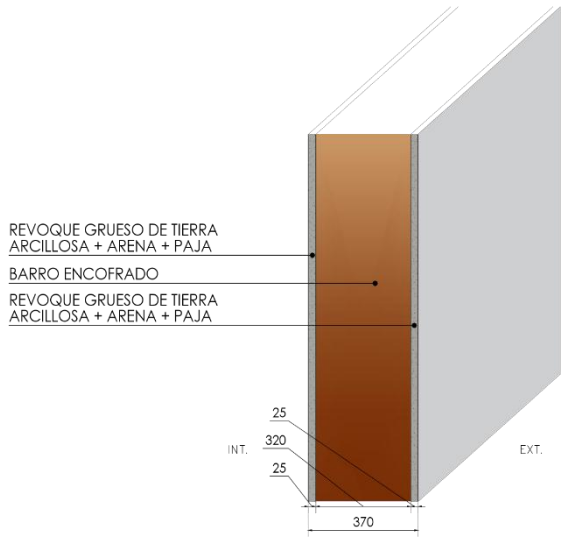

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,04 | 20% | 29,70 | 39,01 | 2,22 | 4477 | 358 |
| INDIVIDUAL | 0,17 | 0% | 32,12 | 26,52 | 1,24 | 4614 | 168 |
| INC. FAMILIA | 16% | 0% | 108% | 68% | 56% | 103% | 47% |
| INC. MUNDIAL | 14% | 0% | 104% | 64% | 21% | 103% | 33% |

| BIO 004 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

BARRO ENCOFRADO 32 CM CON REVOQUES EN AMBAS CARAS

## INDICE DE TRANSMITANCIA TERMICA "K"

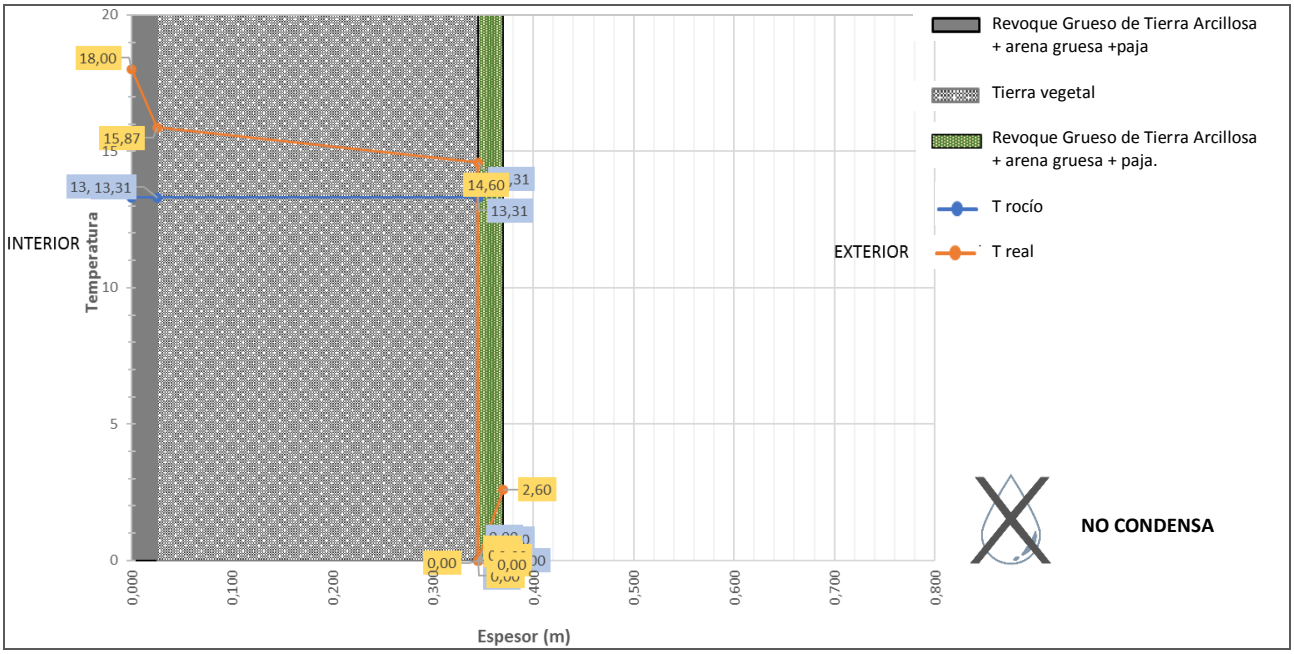
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,06 | 1,06 |
|---|---|
| verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



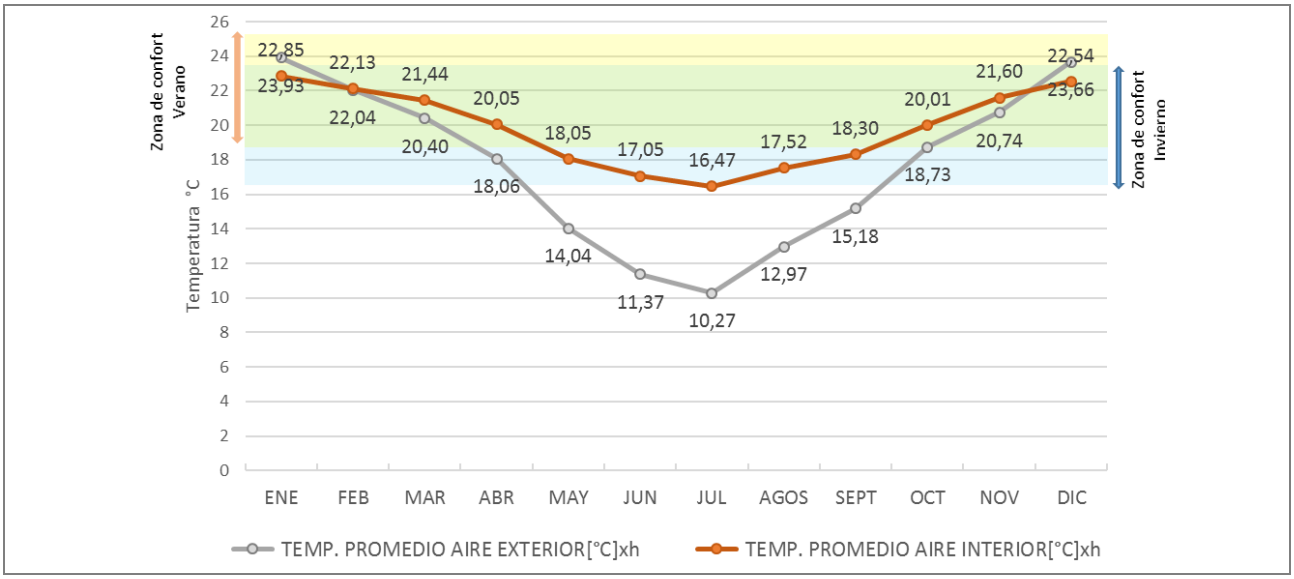

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 476,1 | 475,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **23,3** | **23,2** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **18,3** | **16,6** |
| | **Amortiguamiento:** | 0,008 | 0,013 |

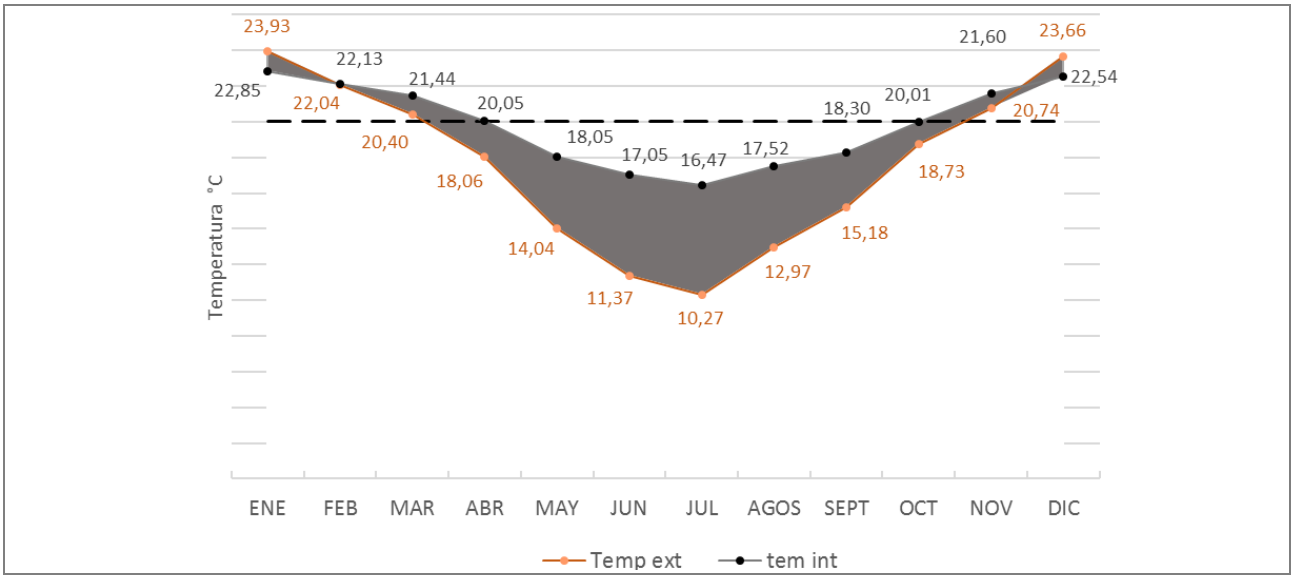
| BIO-004 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

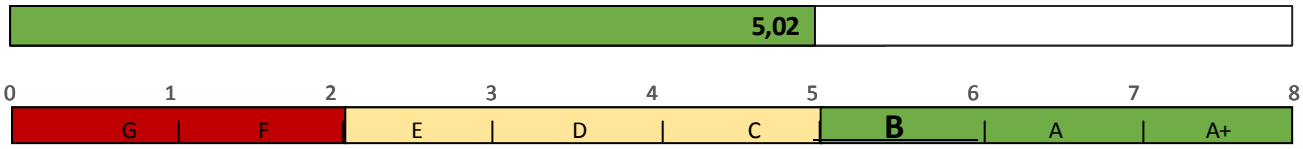
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **25,28** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,31** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



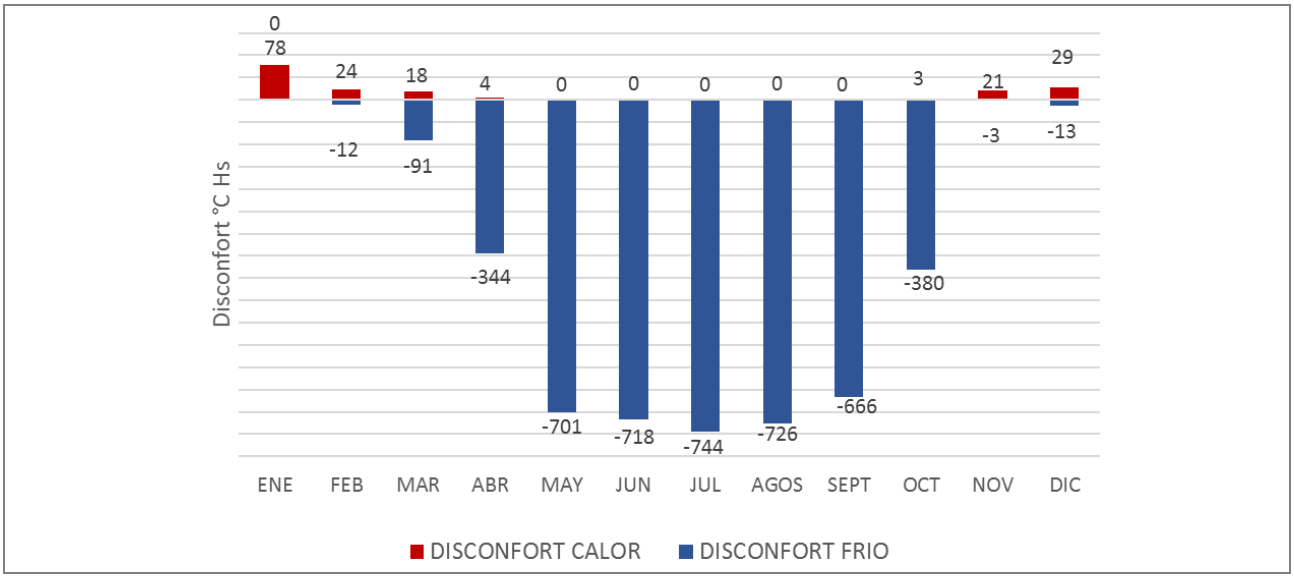




5,02 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| BIO-004 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

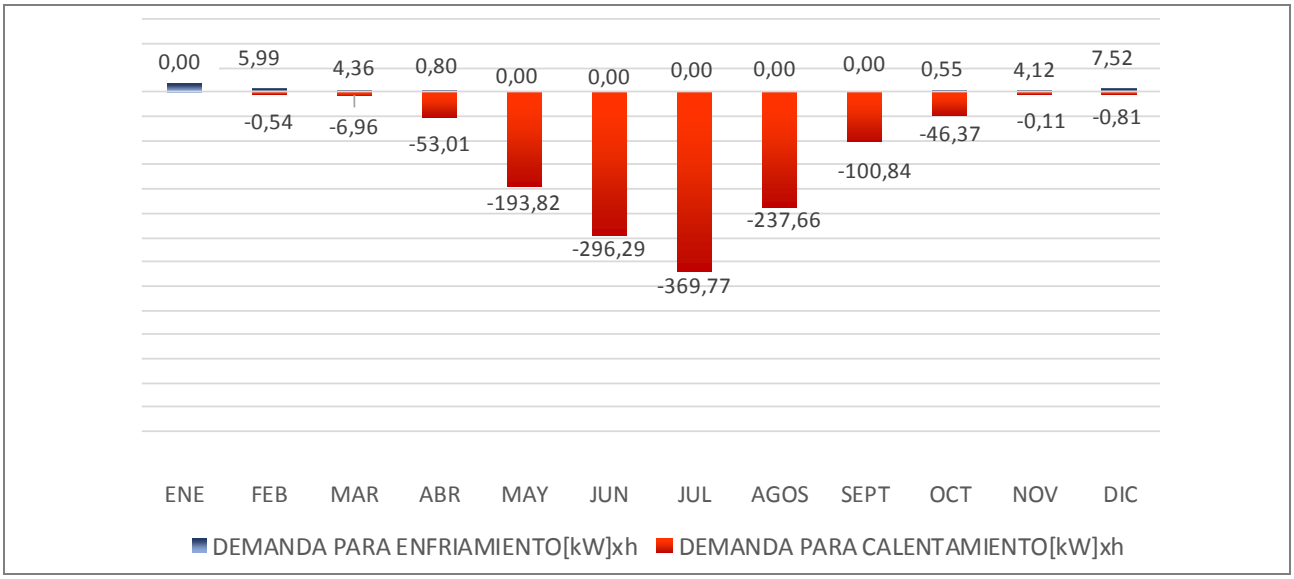
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **177** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.398** | °C Hs | 50% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.575** | **°C Hs** | **52%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

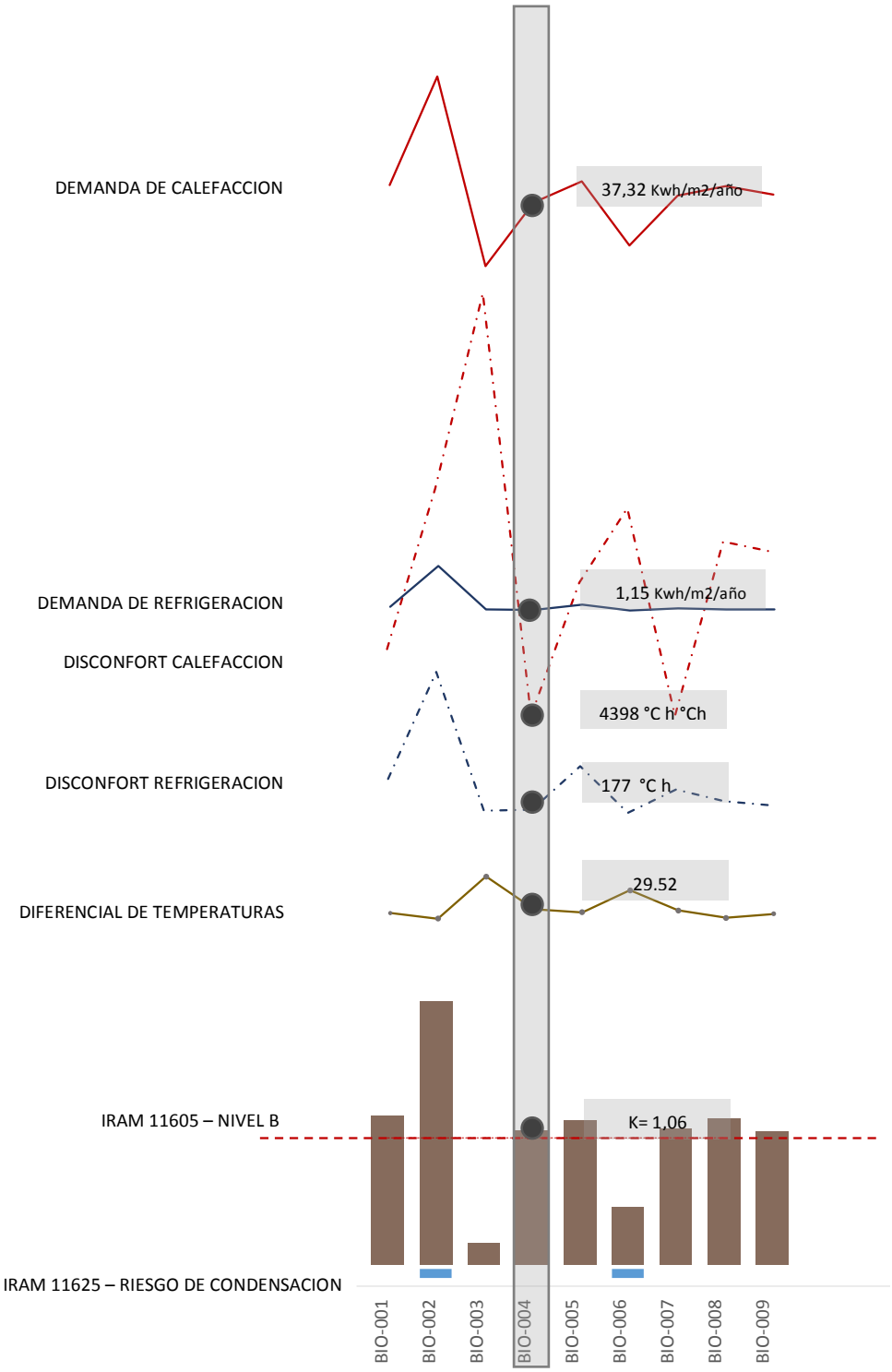



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **40,33** | kWh | 1,15 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.306,17** | kWh | 37,32 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.346,50** | kWh | **38,47** | kWh/m2/año |

| BIO-004 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 171 | N° 172 | N° 162 | N° 049 | N° 010 | N° 056 |



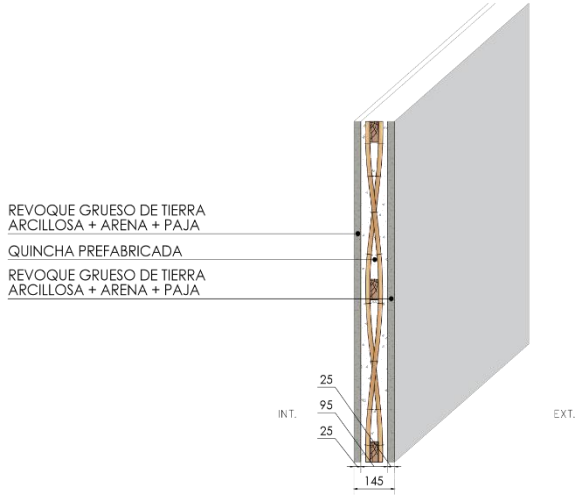

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,04 | 20% | 29,70 | 39,01 | 2,22 | 4477 | 358 |
| INDIVIDUAL | 1,06 | 0% | 29,52 | 37,32 | 1,15 | 4398 | 177 |
| INC. FAMILIA | 102% | 0% | 99% | 96% | 52% | 98% | 49% |
| INC. MUNDIAL | 89% | 0% | 96% | 91% | 19% | 99% | 35% |

| BIO 005 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

MURO DE QUINCHA

## INDICE DE TRANSMITANCIA TERMICA "K"

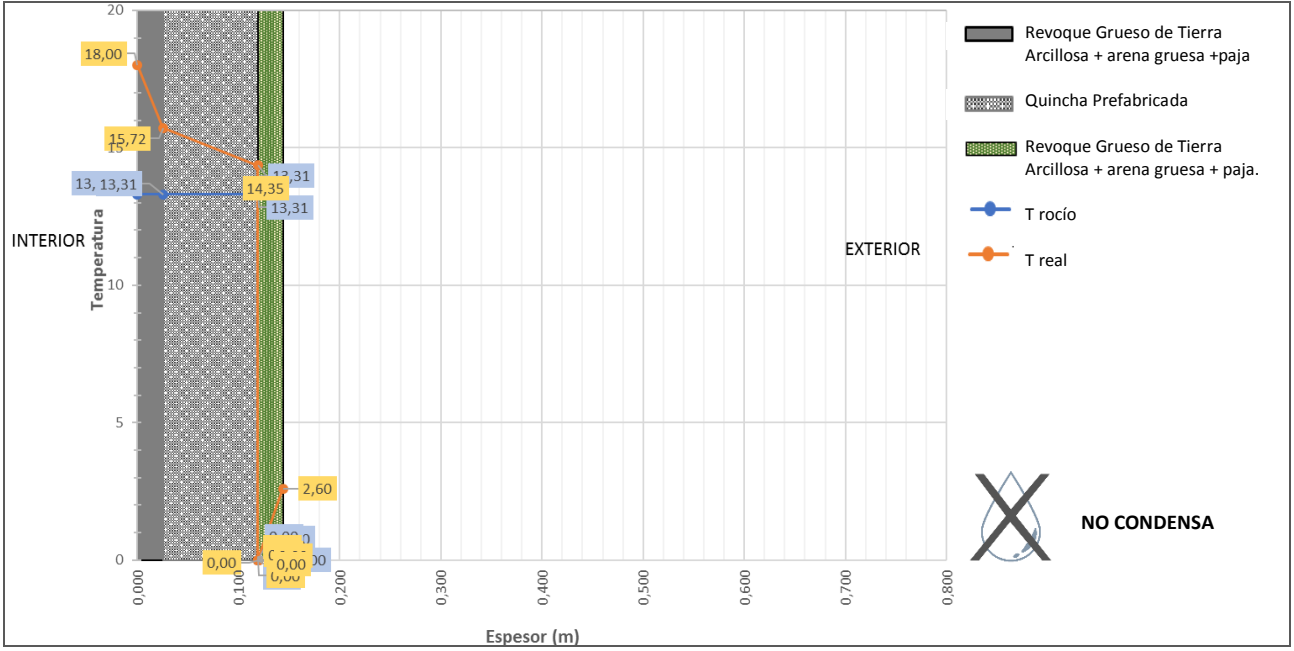
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,14 | 1,14 |
|---|---|
| verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



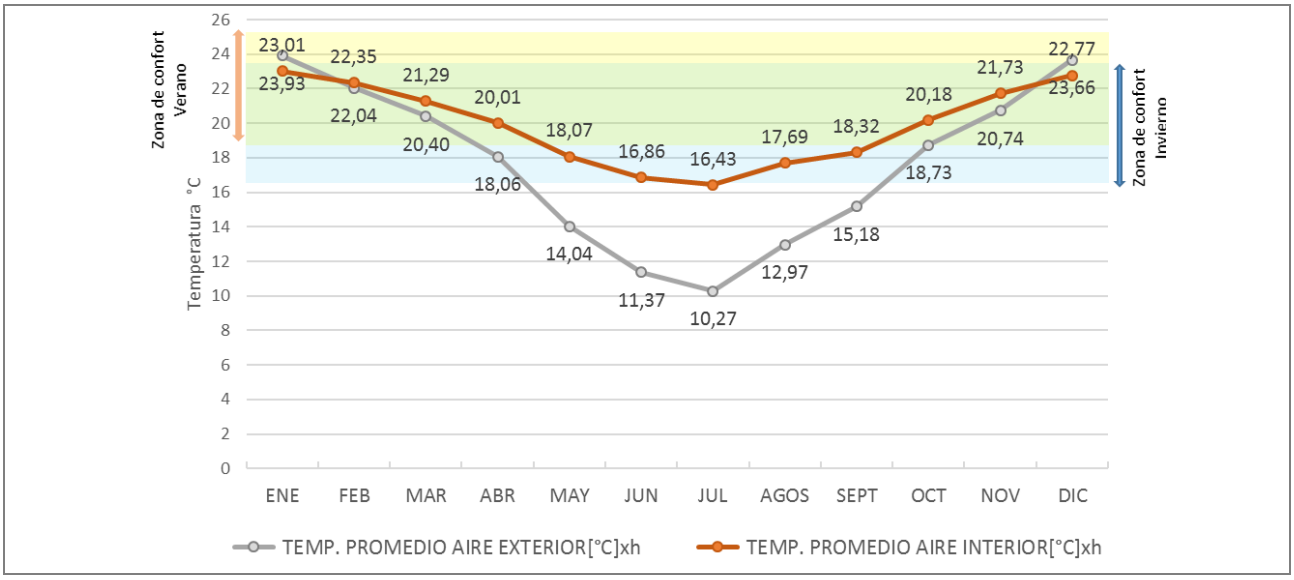

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 11,4 | 9,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,3** | **3,1** |
| | **Amortiguamiento:** | 0,308 | 0,323 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,4** | **3,1** |
| | **Amortiguamiento:** | 0,410 | 0,448 |

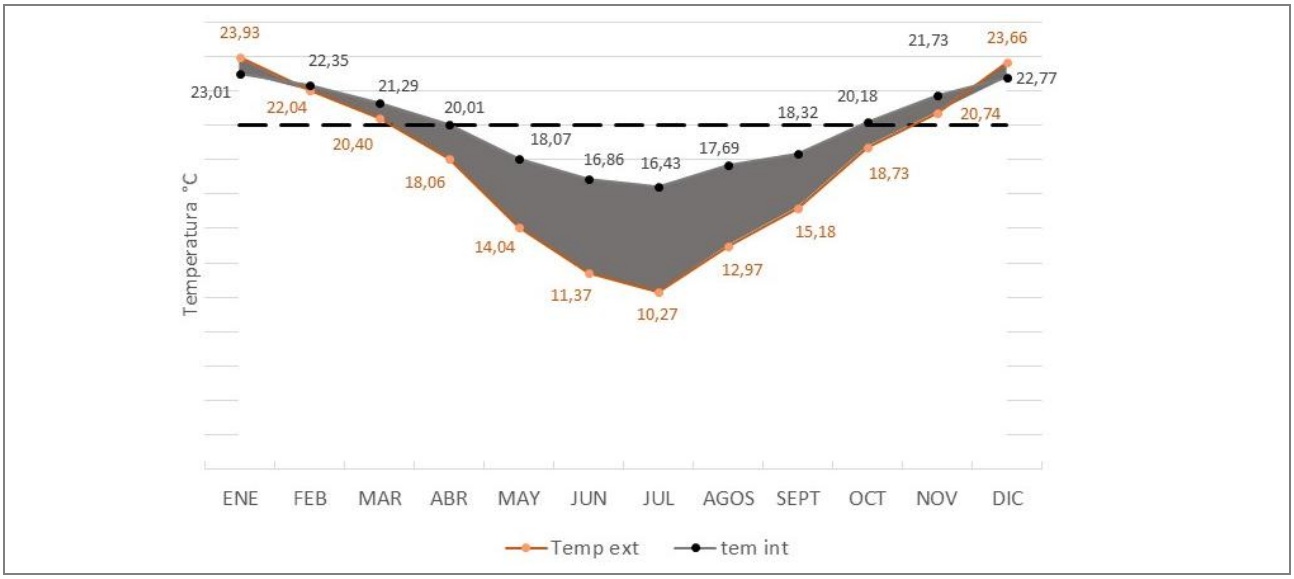
| BIO-005 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

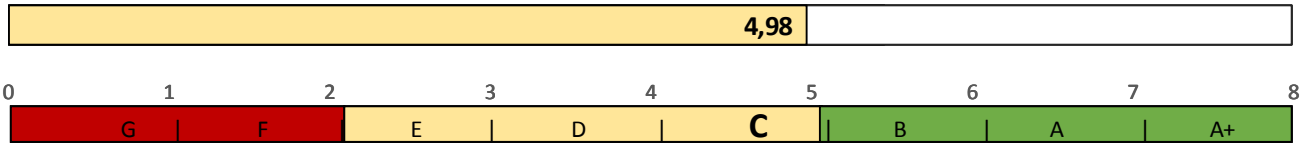
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,77** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,37** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



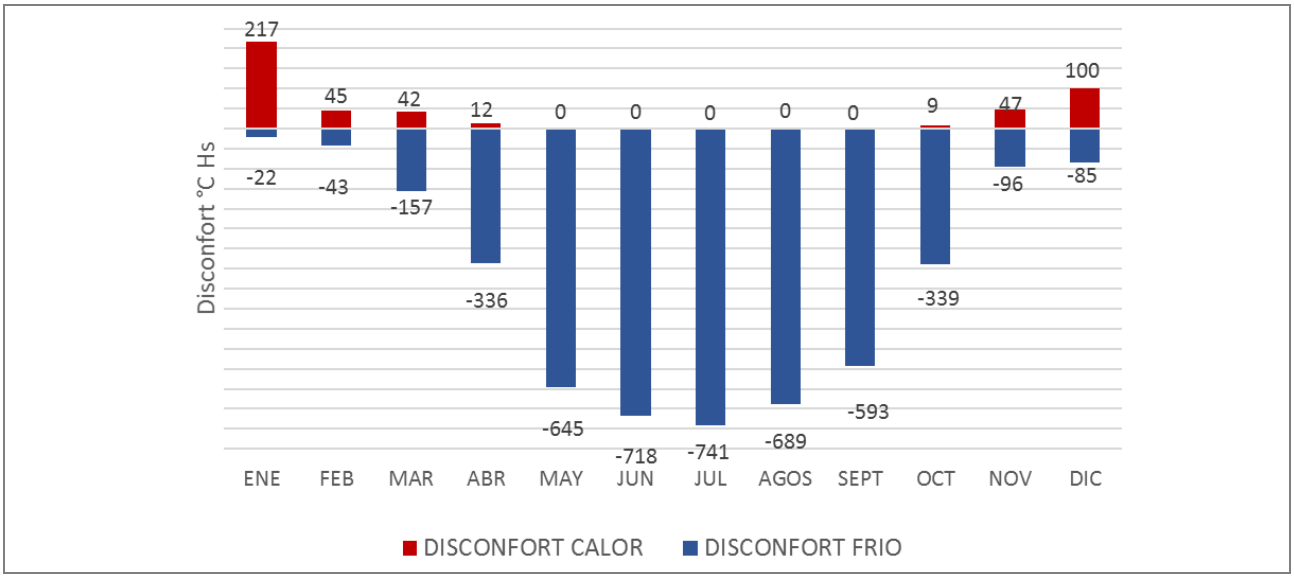




4,98 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| BIO-005 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

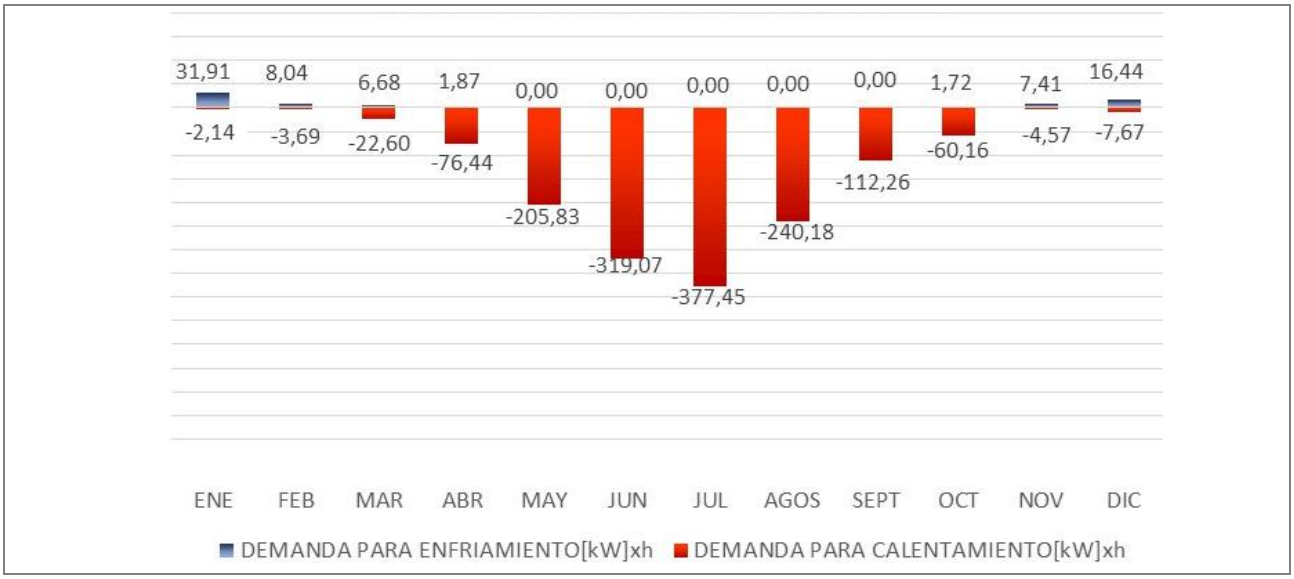
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **472** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.466** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.938** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

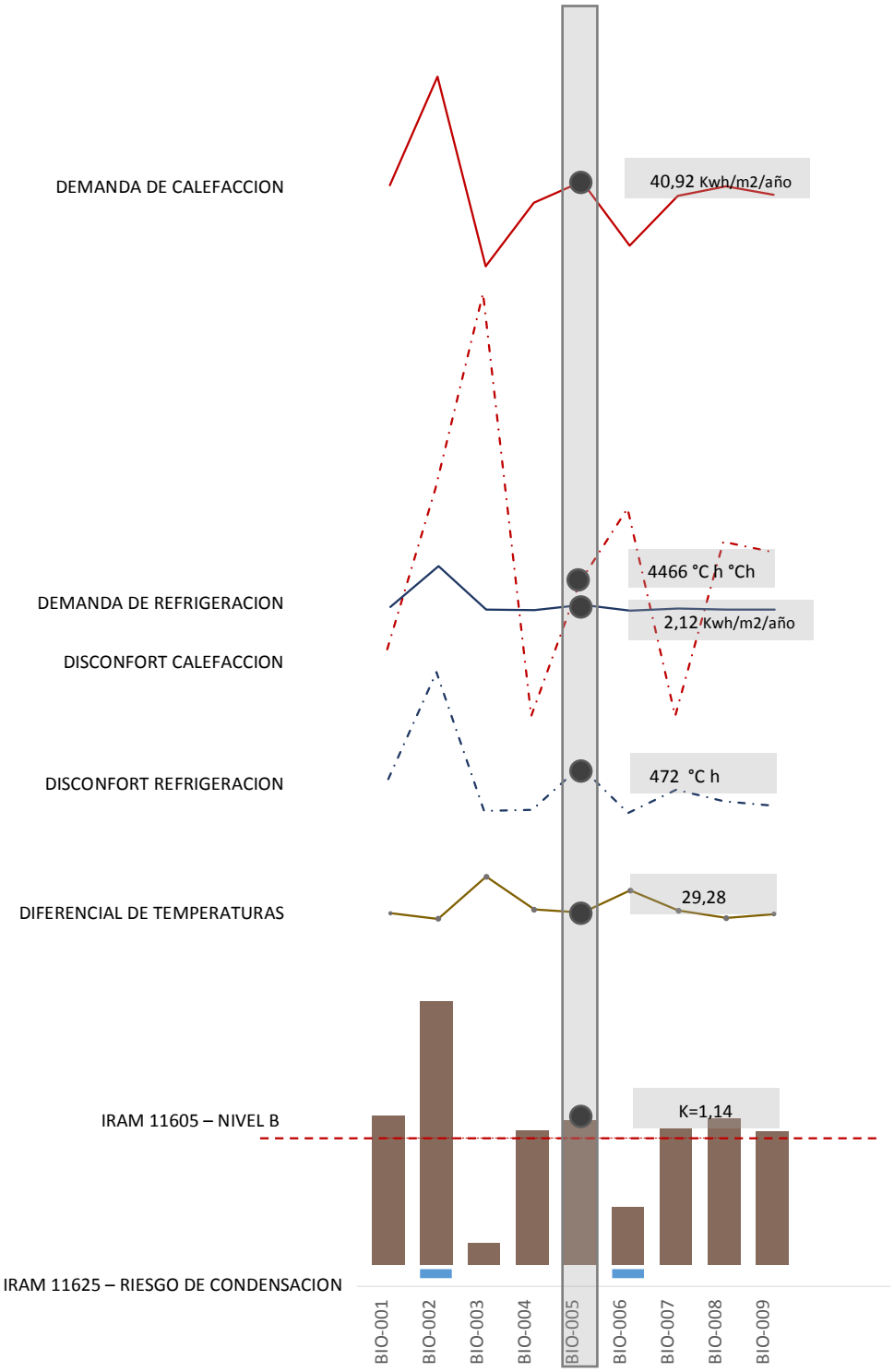



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **74,06** | kWh | 2,12 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.432,06** | kWh | 40,92 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.506,11** | kWh | **43,03** | kWh/m2/año |

| BIO-005 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 174 | N° 176 | N° 174 | N° 152 | N° 022 | N° 173 |



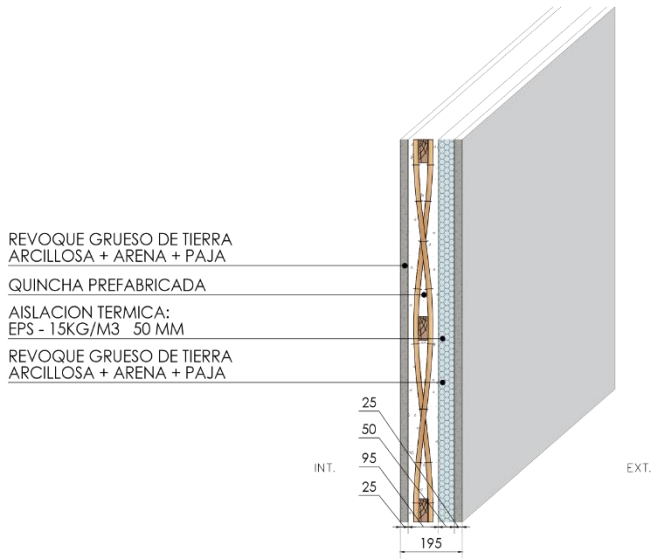

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,04 | 20% | 29,70 | 39,01 | 2,22 | 4477 | 358 |
| INDIVIDUAL | 1,14 | 0% | 29,28 | 40,92 | 2,12 | 4466 | 472 |
| INC. FAMILIA | 110% | 0% | 99% | 105% | 95% | 100% | 132% |
| INC. MUNDIAL | 96% | 0% | 95% | 99% | 35% | 100% | 92% |

| BIO 006 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

MURO DE QUINCHA CON AISLACION

## INDICE DE TRANSMITANCIA TERMICA "K"

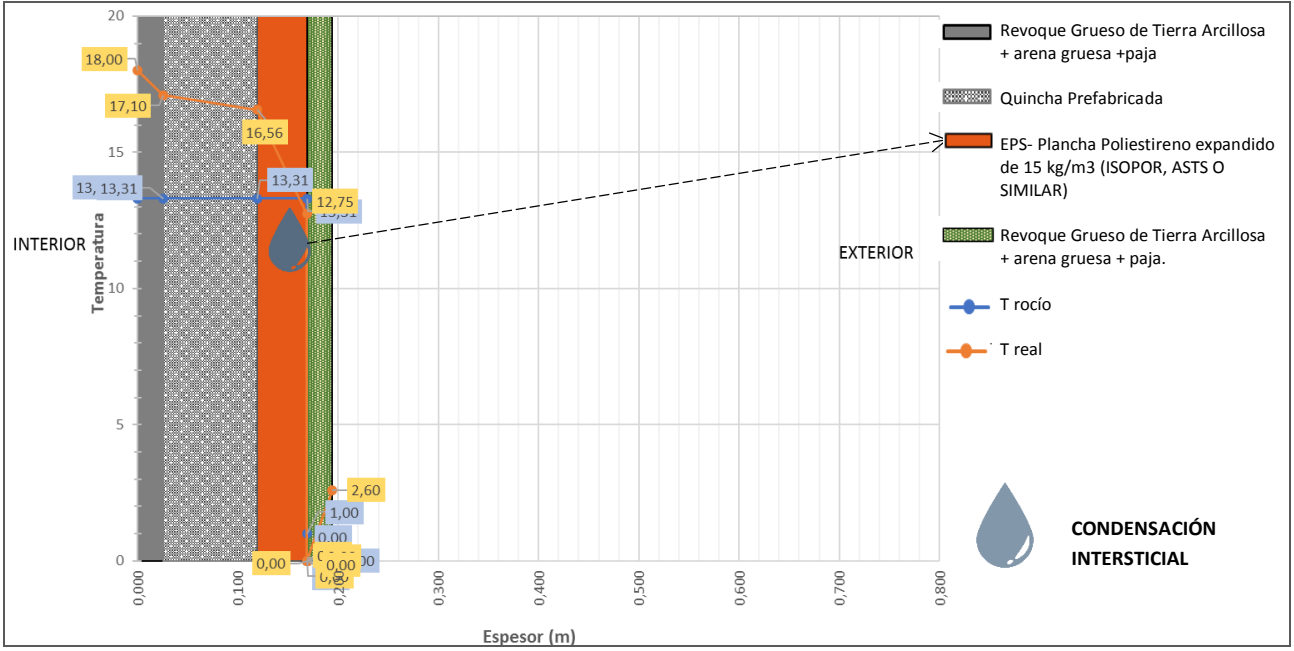
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,45 | 0,45 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



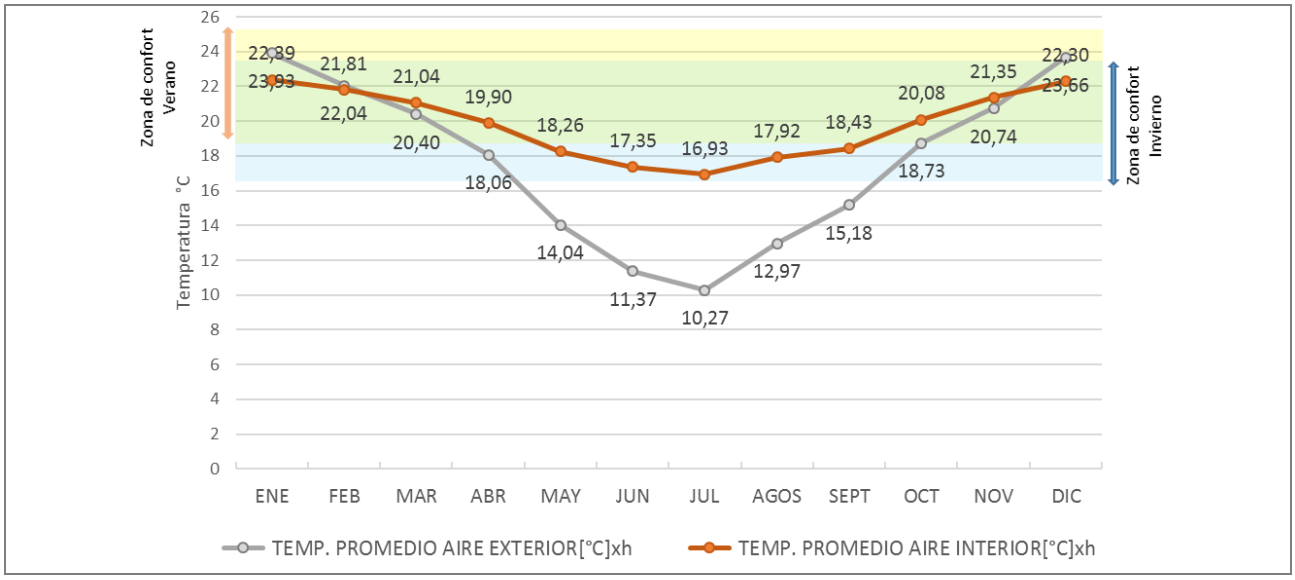

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,3 | 3,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,2** | **5,2** |
| | **Amortiguamiento:** | 0,146 | 0,146 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,3** | **5,1** |
| | **Amortiguamiento:** | 0,252 | 0,266 |

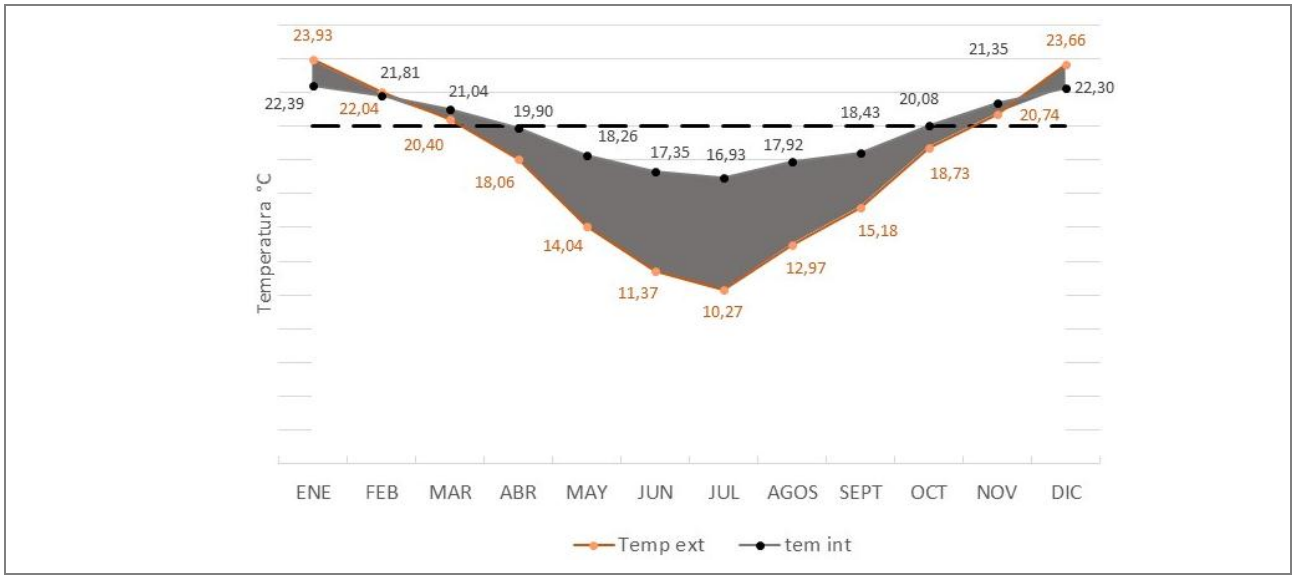
| BIO-006 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

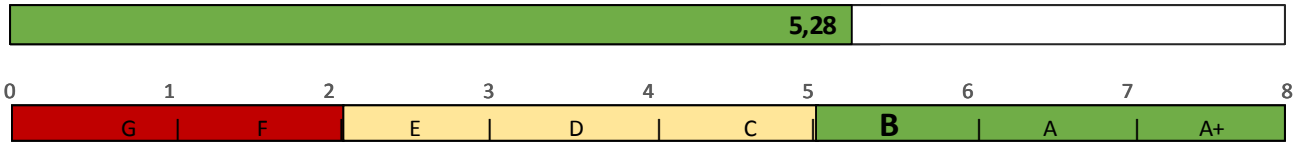
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,66** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,73** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



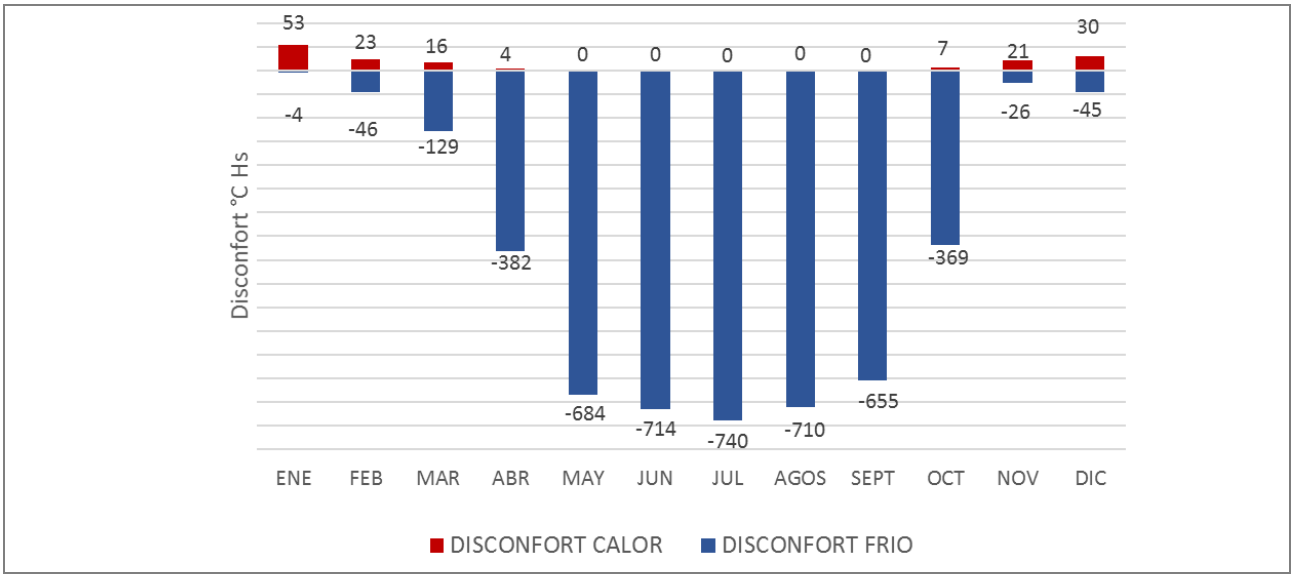




5,28 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| BIO-006 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

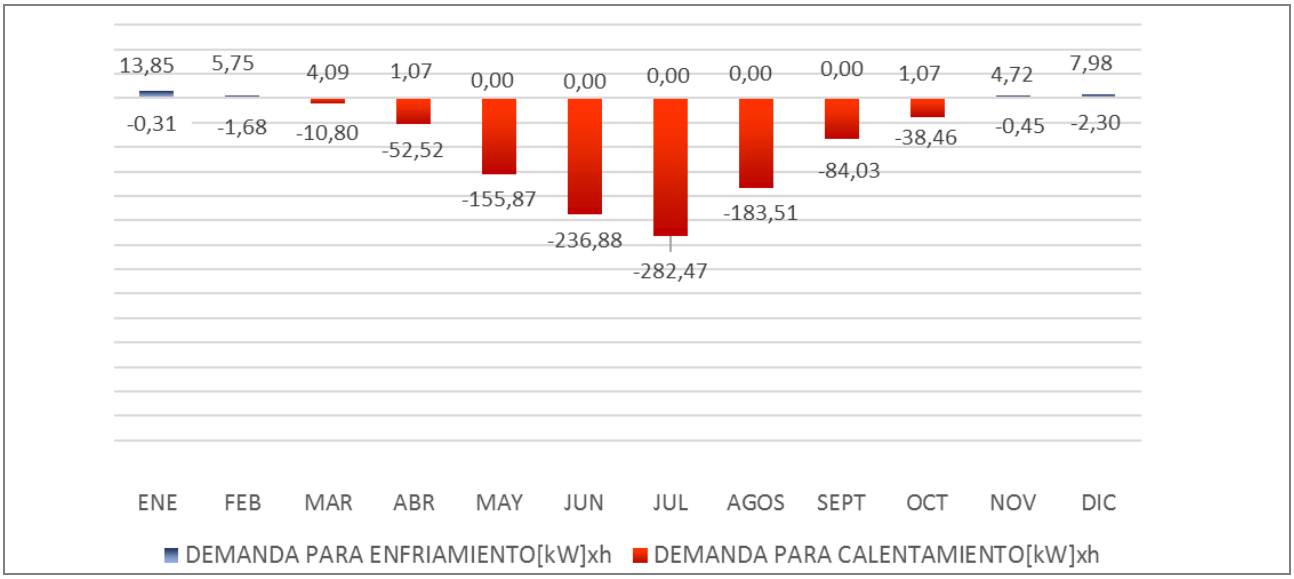
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **154** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.504** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.659** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

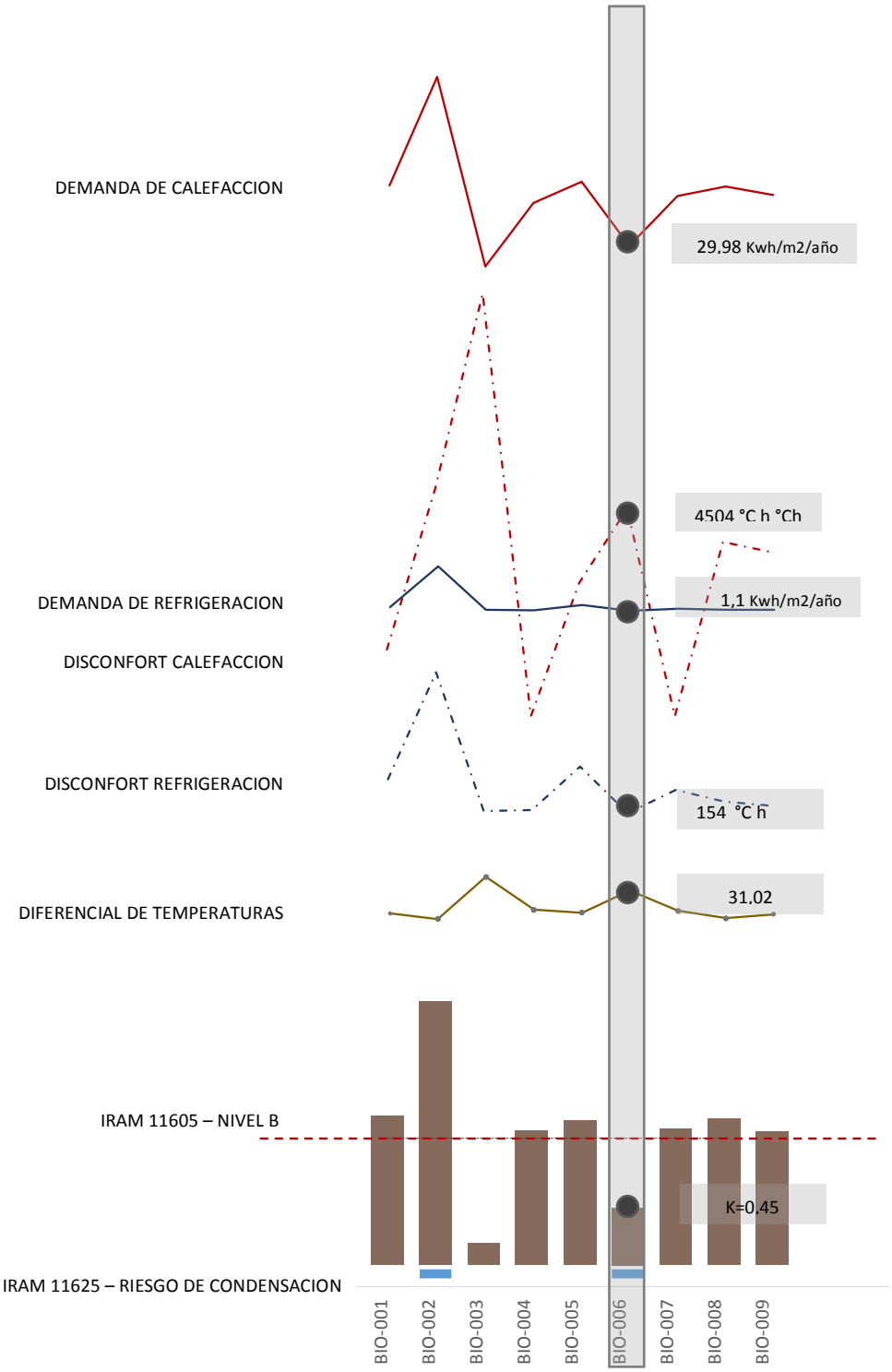



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **38,54** | kWh | 1,10 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.049,28** | kWh | 29,98 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.087,81** | kWh | **31,08** | kWh/m2/año |

| BIO-006 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 093 | N° 106 | N° 062 | N° 037 | N° 059 | N° 026 |



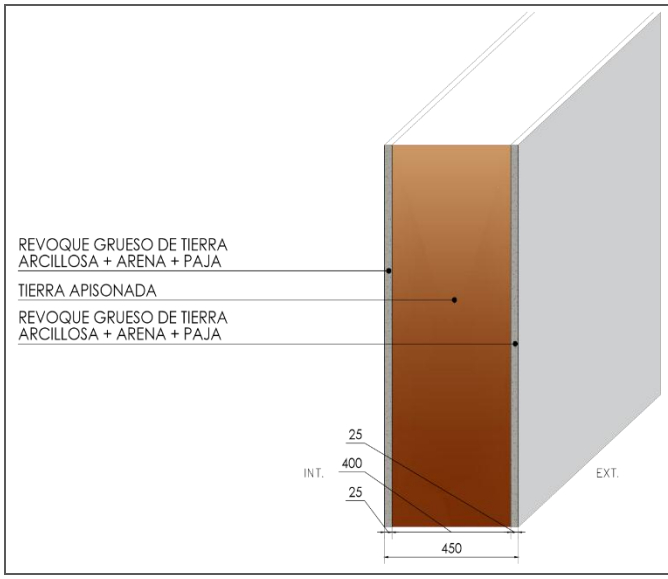

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,04 | 20% | 29,70 | 39,01 | 2,22 | 4477 | 358 |
| INDIVIDUAL | 0,45 | 100% | 31,02 | 29,98 | 1,1 | 4504 | 154 |
| INC. FAMILIA | 43% | 500% | 104% | 77% | 50% | 101% | 43% |
| INC. MUNDIAL | 38% | 357% | 101% | 73% | 18% | 101% | 30% |

| BIO 007 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

MURO DE ADOBE CON REVOQUE EN AMBAS CARAS

## INDICE DE TRANSMITANCIA TERMICA "K"

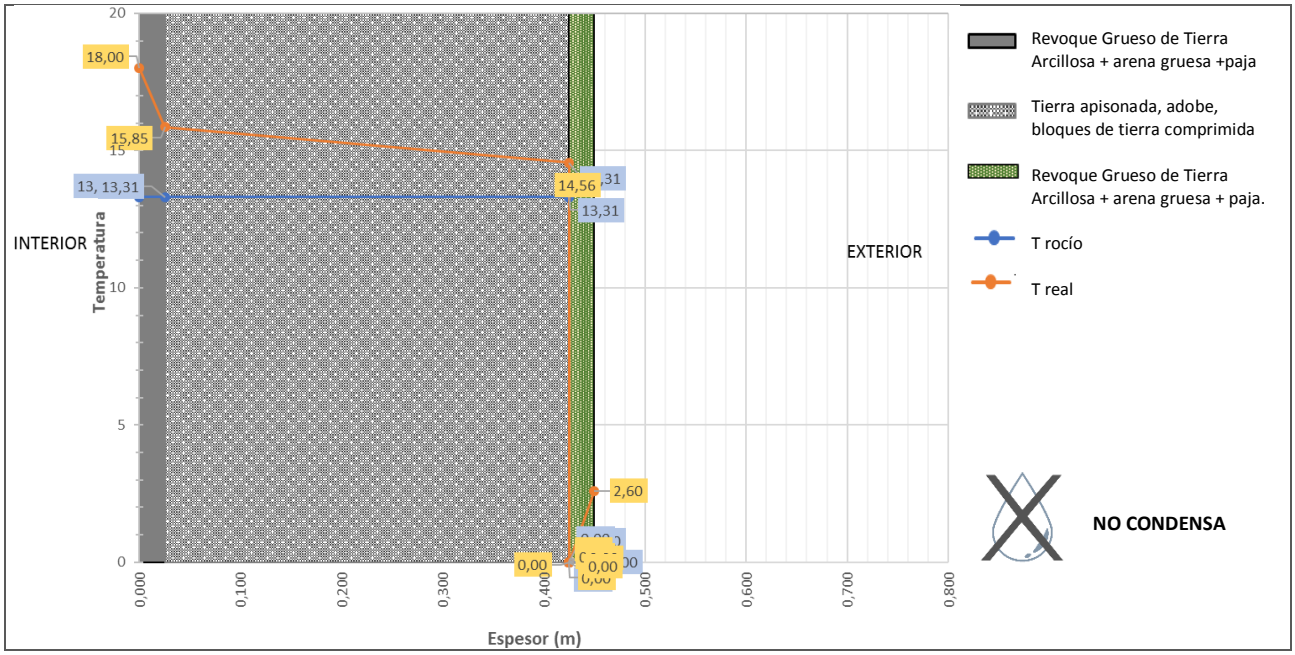
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,07 | 1,07 |
|---|---|
| verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



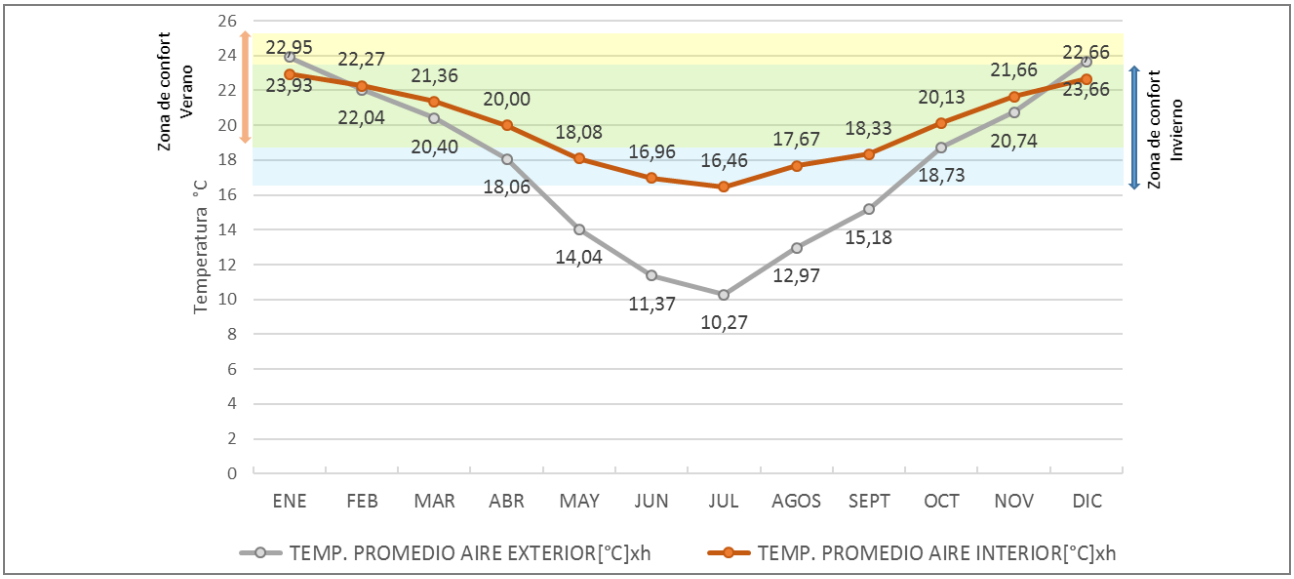

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 215,3 | 214,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **15,5** | **15,4** |
| | **Amortiguamiento:** | 0,003 | 0,003 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,3** | **11,2** |
| | **Amortiguamiento:** | 0,040 | 0,054 |

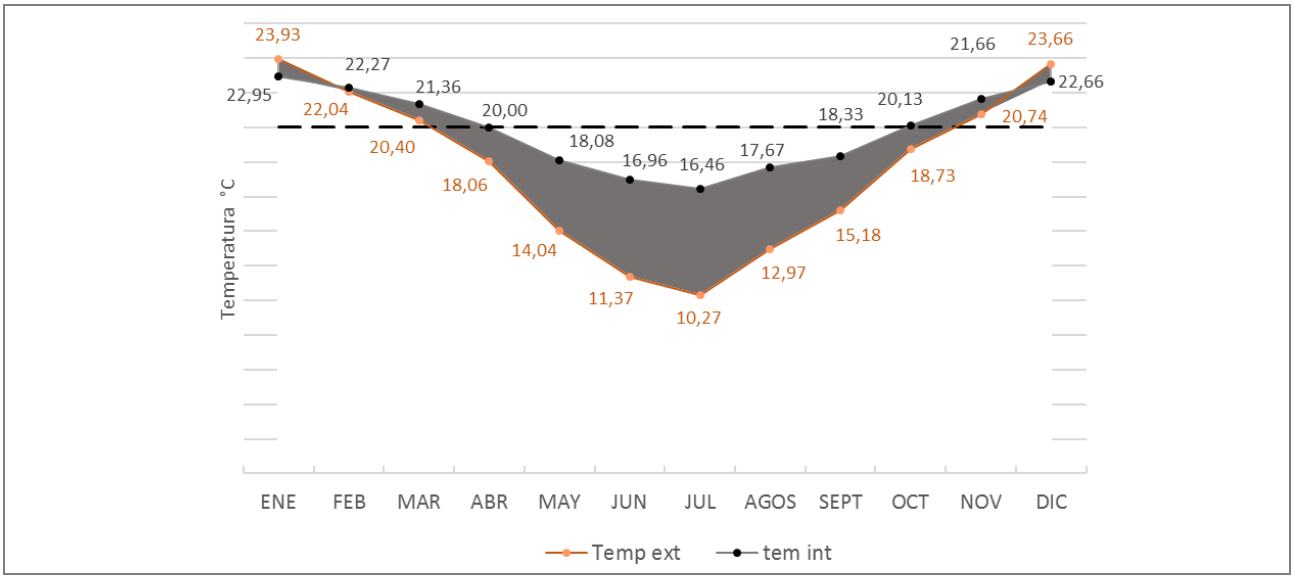
| BIO-007 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

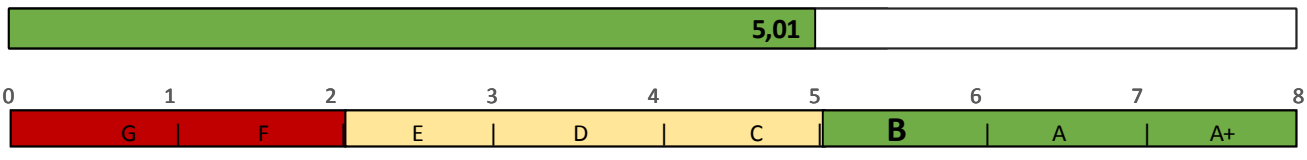
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **25,48** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **13,93** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



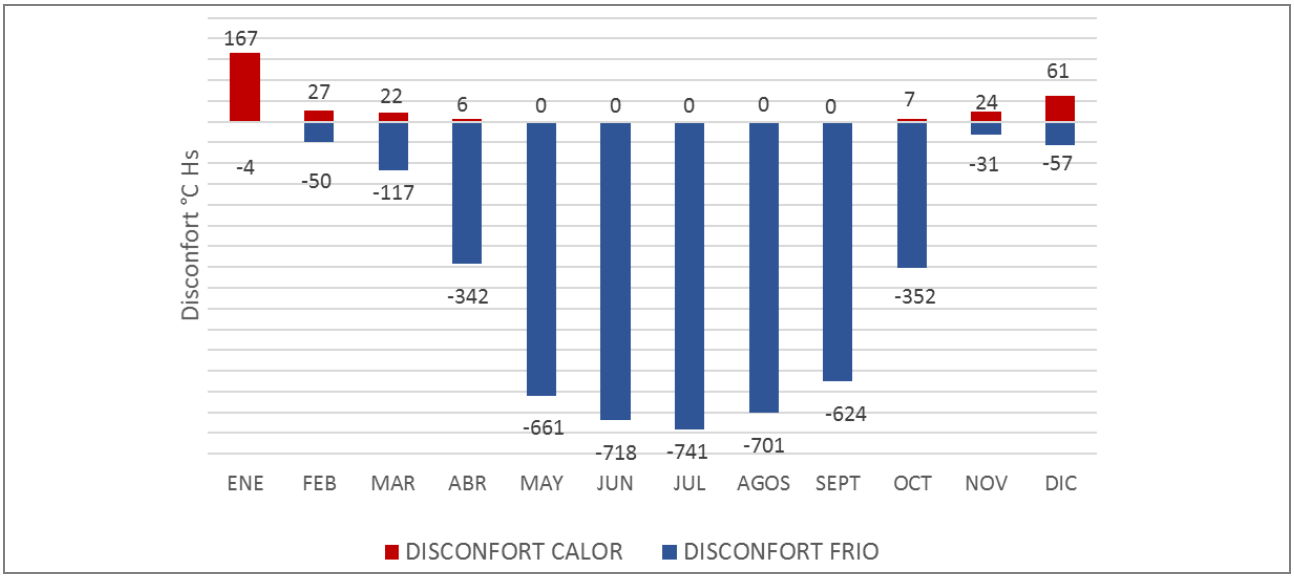




5,01 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| BIO-007 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

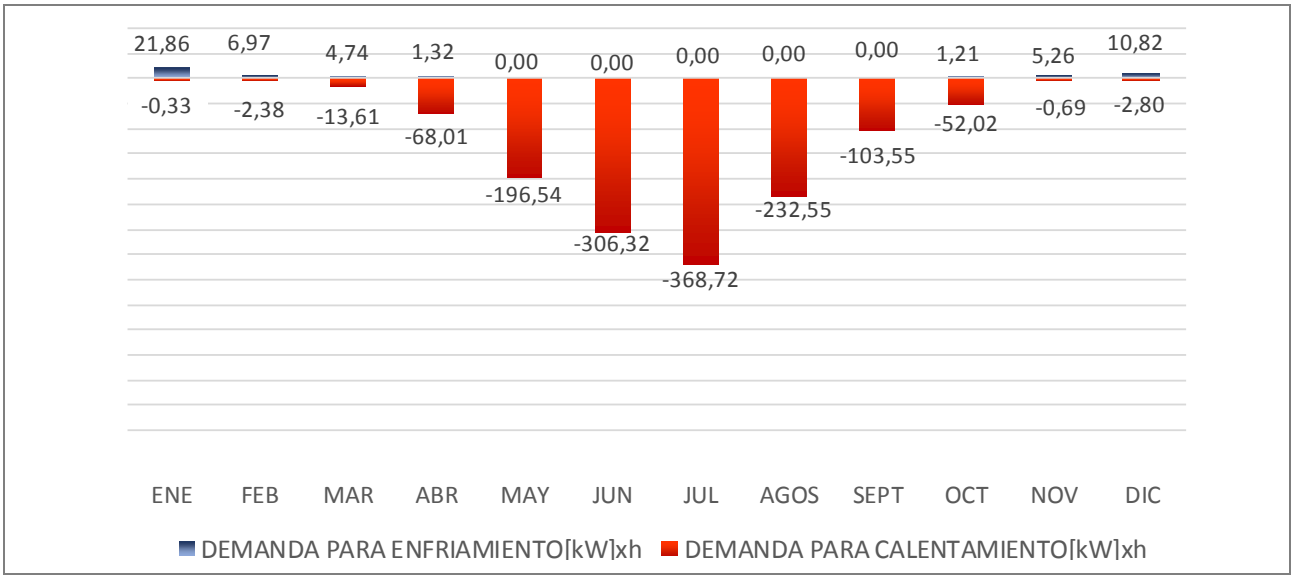
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **313** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.398** | °C Hs | 50% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.711** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

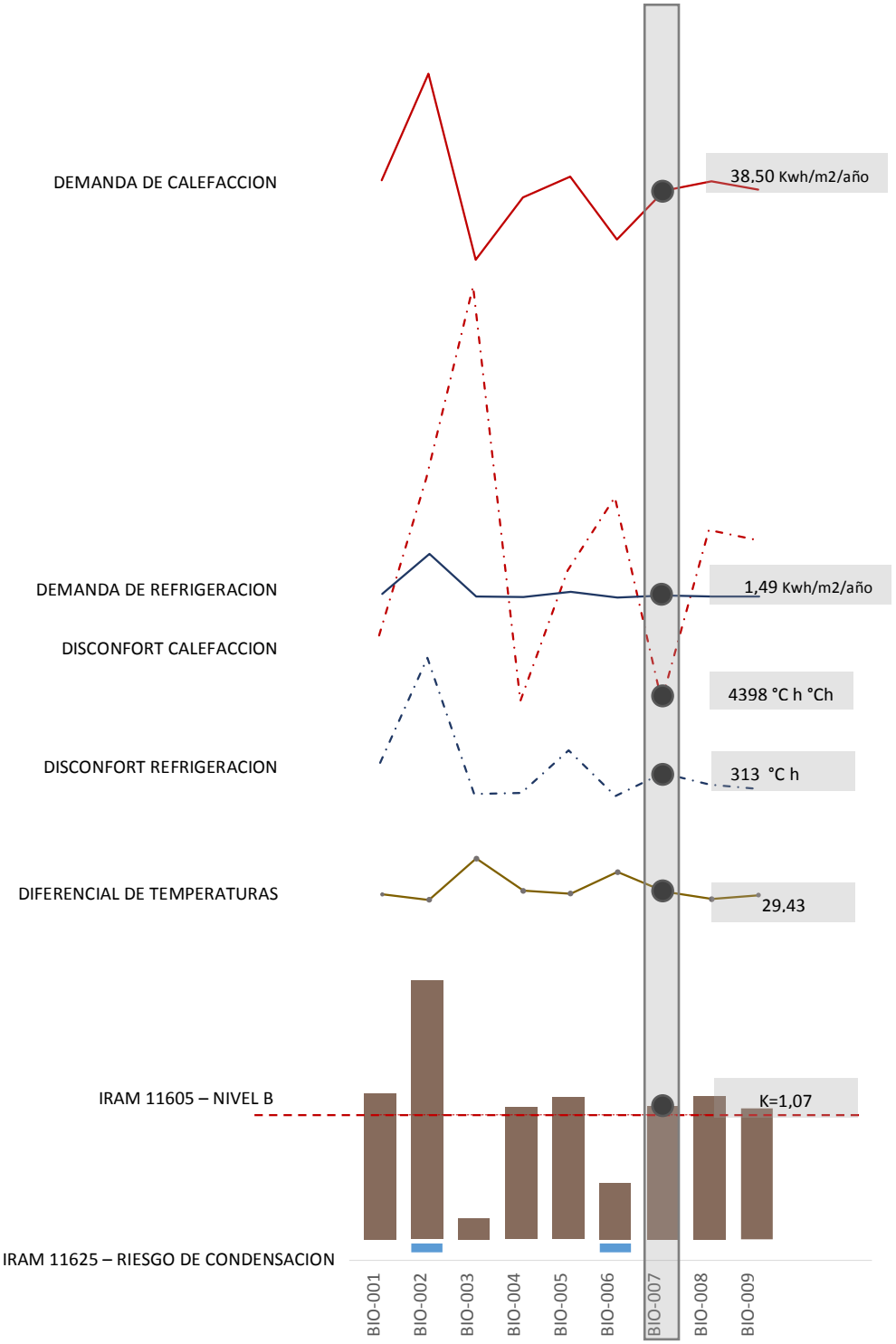



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **52,17** | kWh | 1,49 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.347,52** | kWh | 38,50 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.399,69** | kWh | **39,99** | kWh/m2/año |

| BIO-007 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 172 | N° 175 | N° 165 | N° 101 | N° 011 | N° 147 |



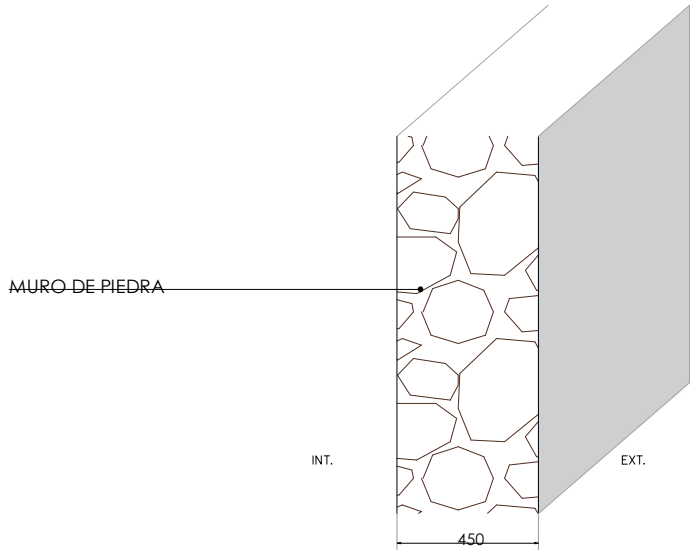

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,04 | 20% | 29,70 | 39,01 | 2,22 | 4477 | 358 |
| INDIVIDUAL | 1,07 | 0% | 29,43 | 38,5 | 1,49 | 4398 | 313 |
| INC. FAMILIA | 103% | 0% | 99% | 99% | 67% | 98% | 87% |
| INC. MUNDIAL | 90% | 0% | 96% | 94% | 25% | 99% | 61% |

| BIO 008 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

MURO DE PIEDRA

## INDICE DE TRANSMITANCIA TERMICA "K"

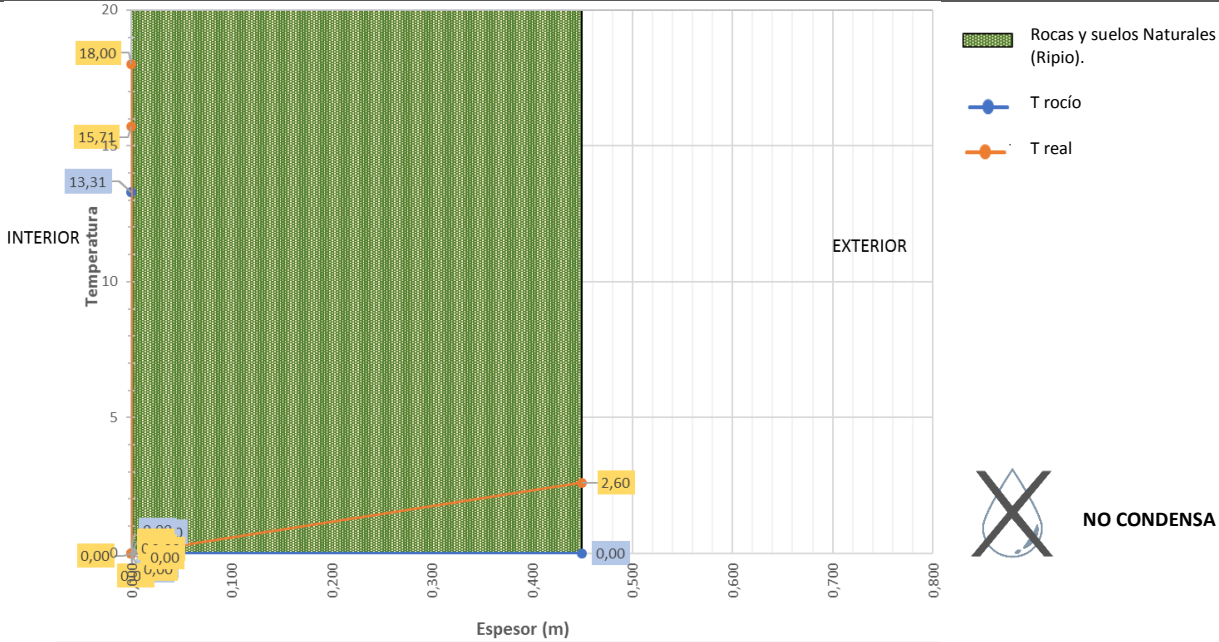
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,15 | 1,15 |
|---|---|
| verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



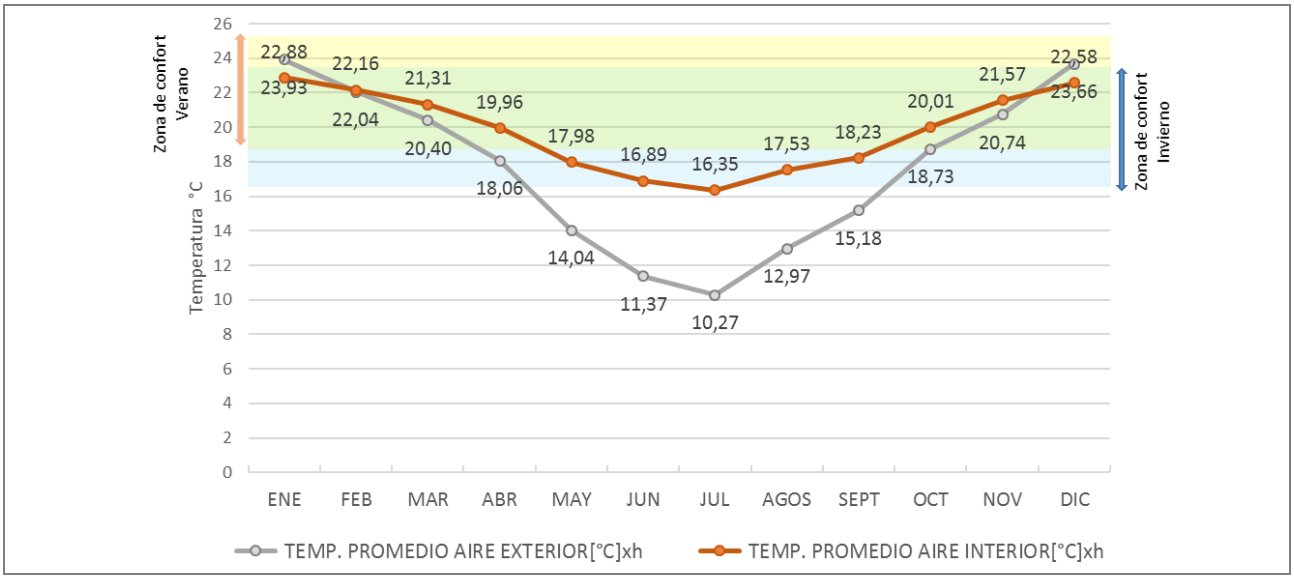

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | 1,000 | 1,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | 1,000 | 1,000 |

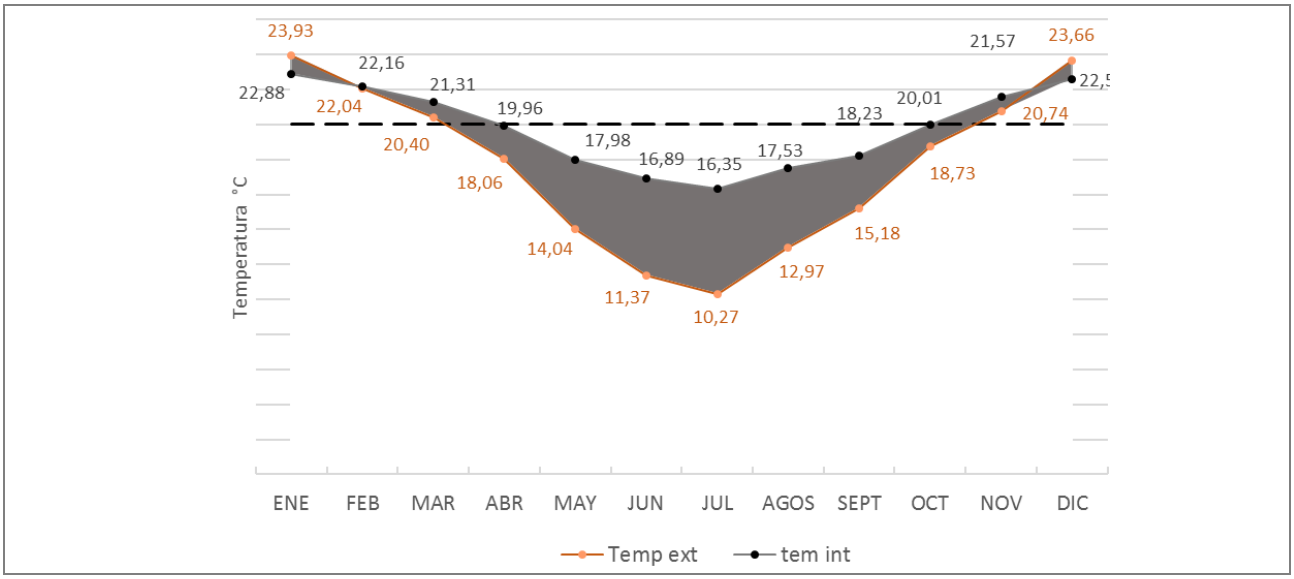
| BIO-008 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

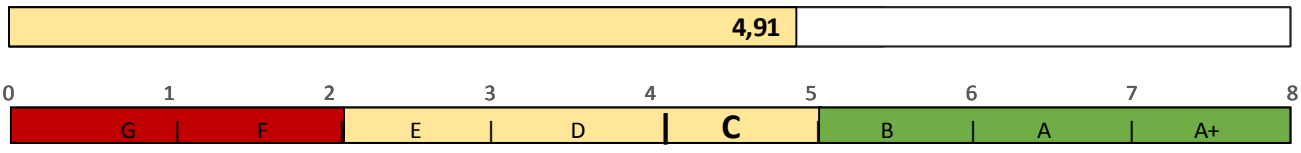
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **25,42** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **13,86** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



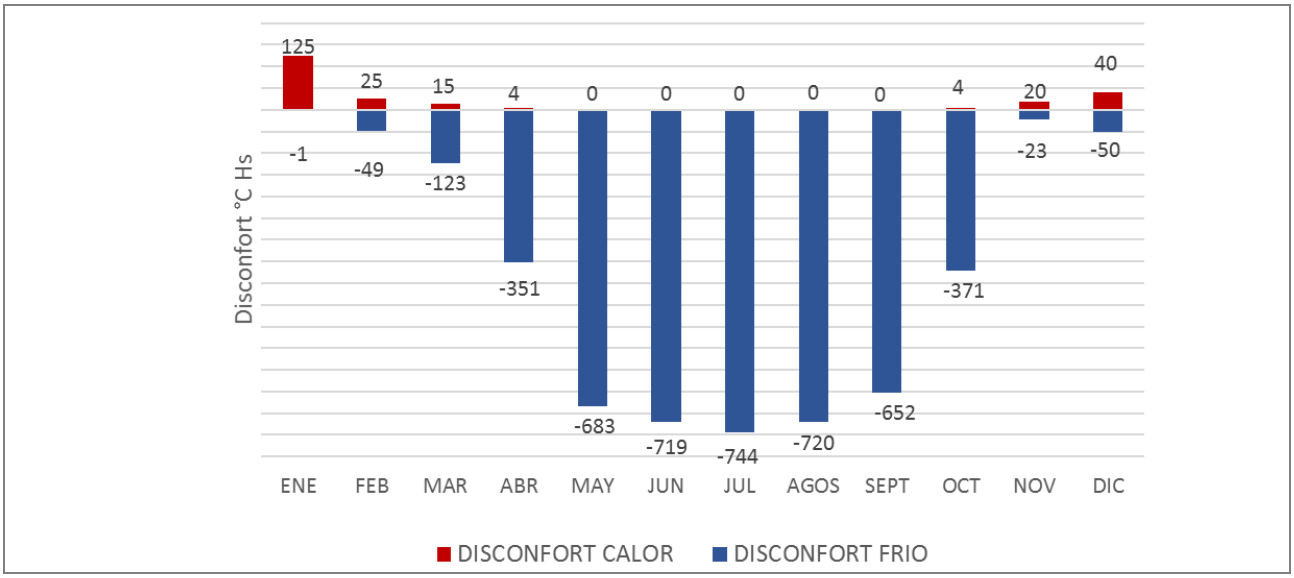




4,91 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| BIO-008 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

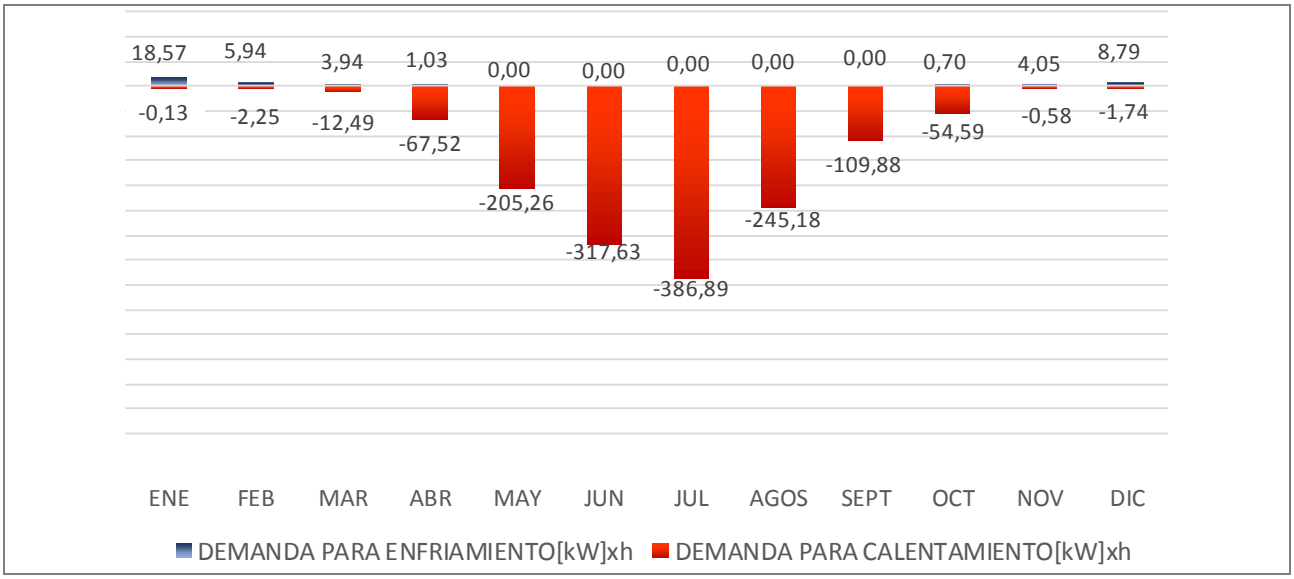
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **232** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.487** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.719** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

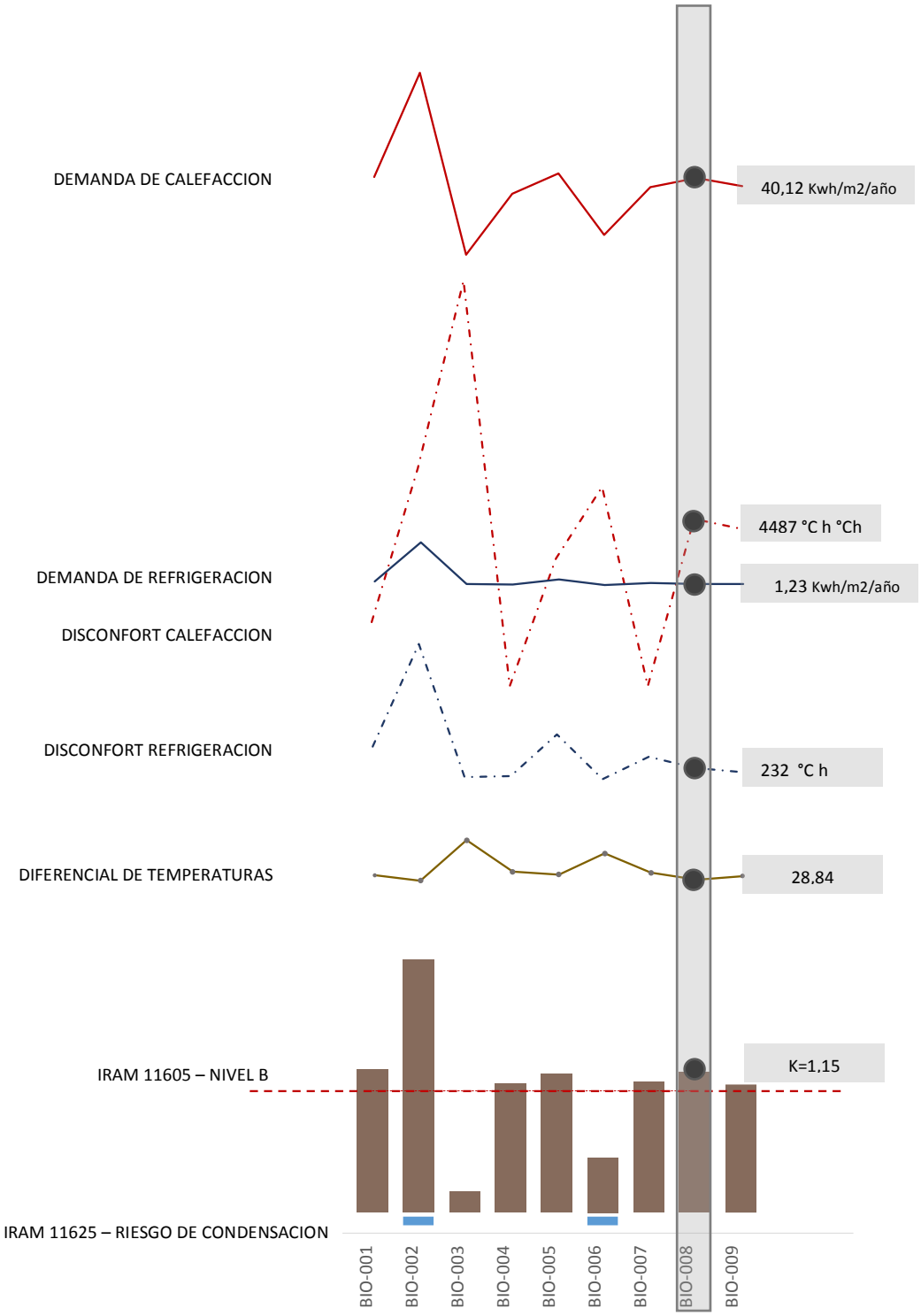



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **43,02** | kWh | 1,23 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1,404,14** | kWh | 40,12 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.447,16** | kWh | **41,35** | kWh/m2/año |

| BIO-008 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 175 | N° 186 | N° 168 | N° 067 | N° 040 | N° 121 |



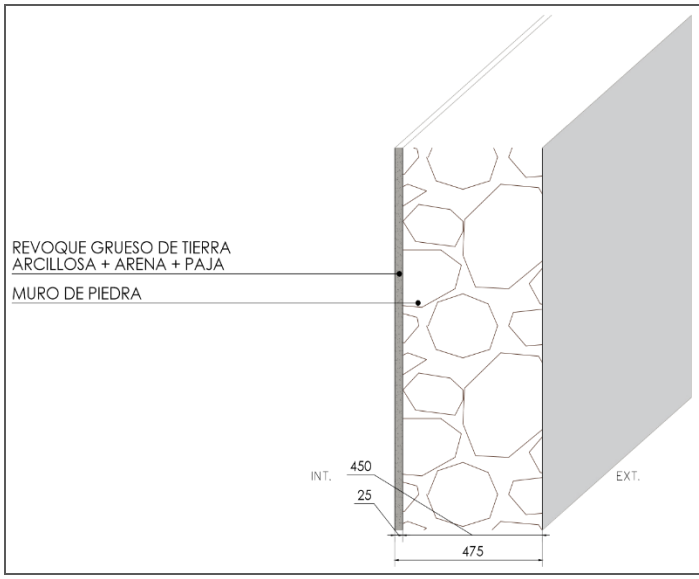

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,04 | 20% | 29,70 | 39,01 | 2,22 | 4477 | 358 |
| INDIVIDUAL | 1,15 | 0% | 28,84 | 40,12 | 1,23 | 4487 | 232 |
| INC. FAMILIA | 111% | 0% | 97% | 103% | 55% | 100% | 65% |
| INC. MUNDIAL | 97% | 0% | 94% | 98% | 20% | 101% | 45% |

| BIO 009 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

MURO DE PIEDRA CON REVOQUE INTERIOR

## INDICE DE TRANSMITANCIA TERMICA "K"

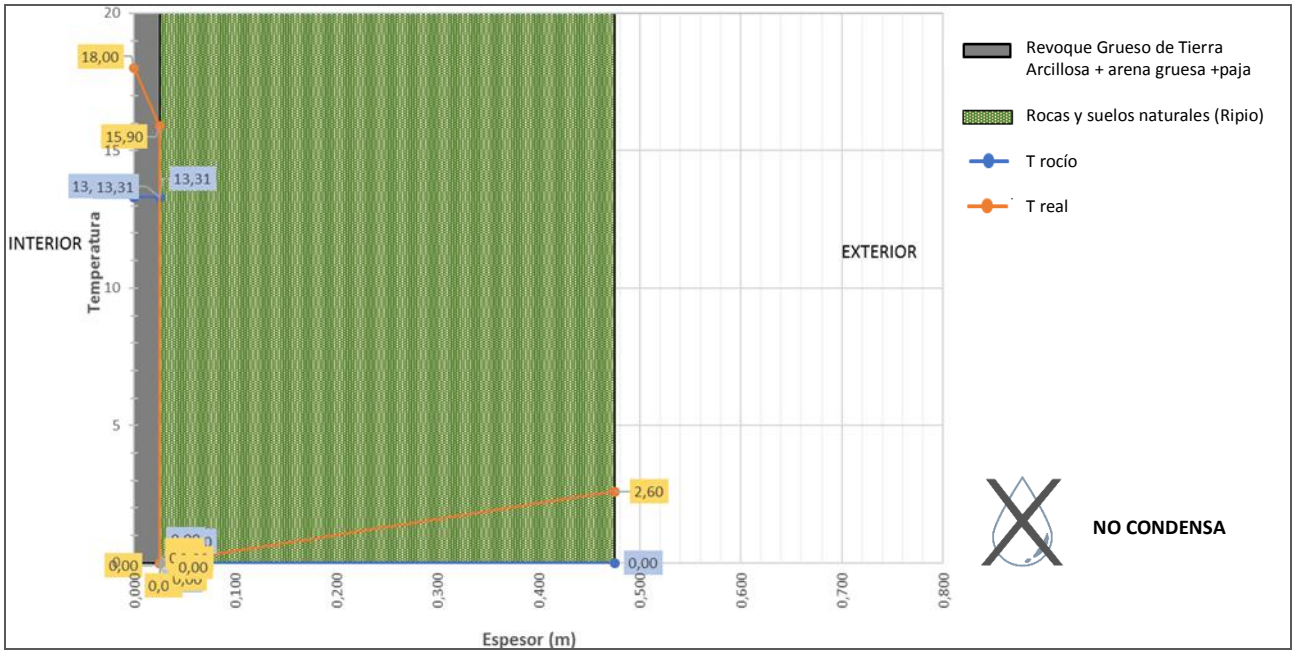
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,05 | 1,05 |
|---|---|
| verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



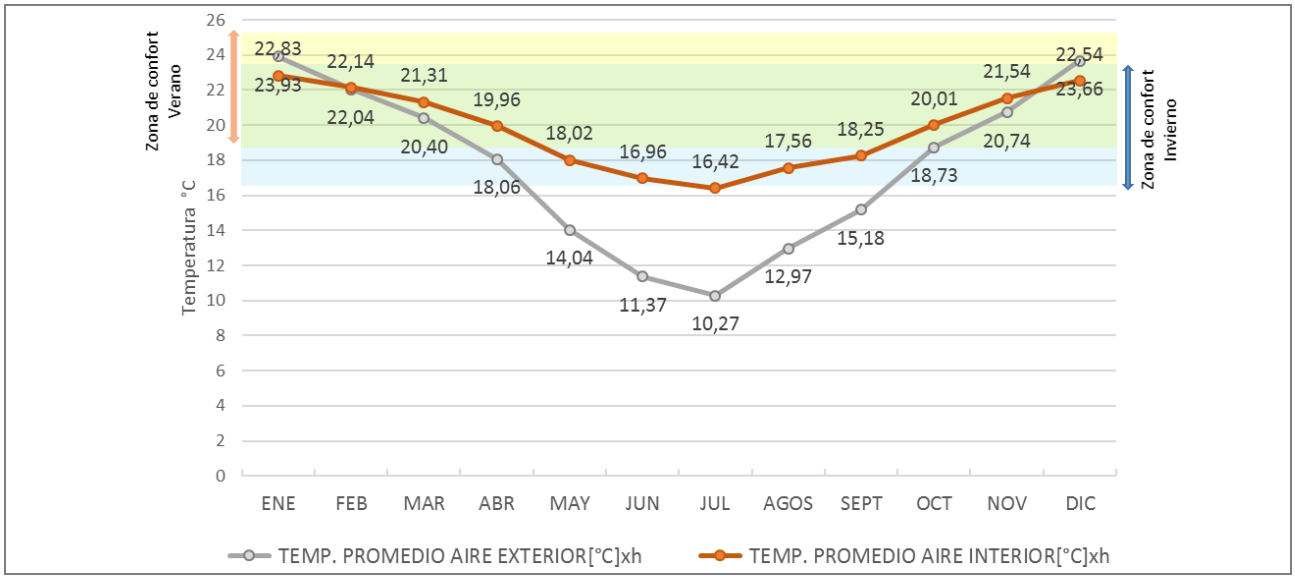

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 0,8 | Invierno 8,8 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **1,0** | **3,2** |
| | **Amortiguamiento:** | 0,777 | 0,305 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **1,4** | **3,1** |
| | **Amortiguamiento:** | 0,689 | 0,449 |

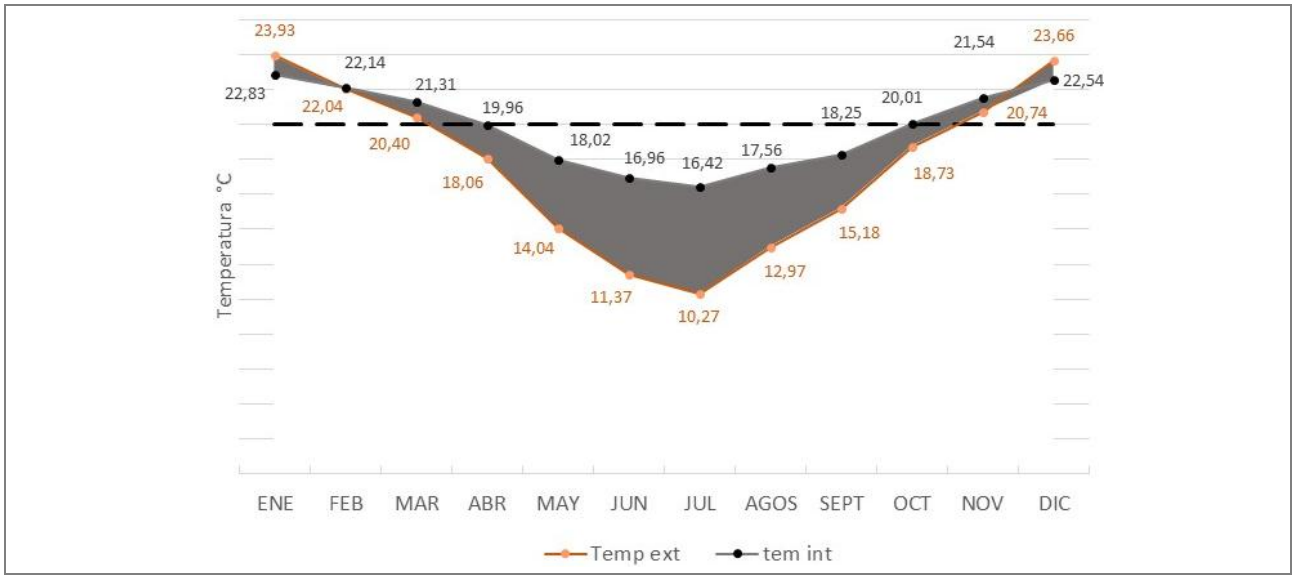
| BIO-009 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

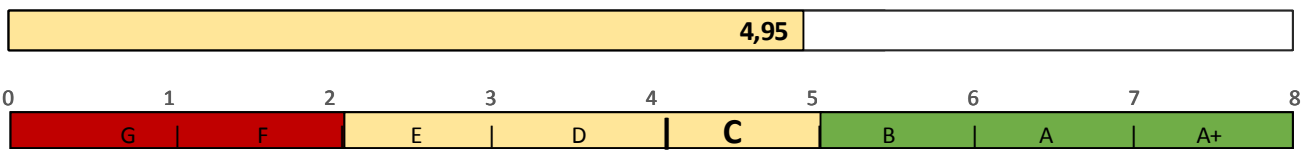
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **25,37** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **13,96** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



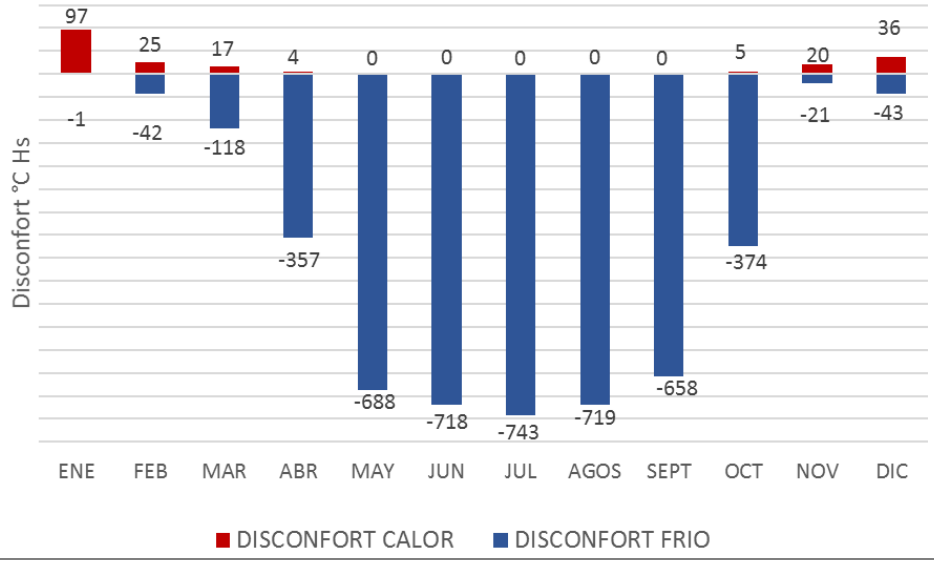




4,95 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| BIO-009 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

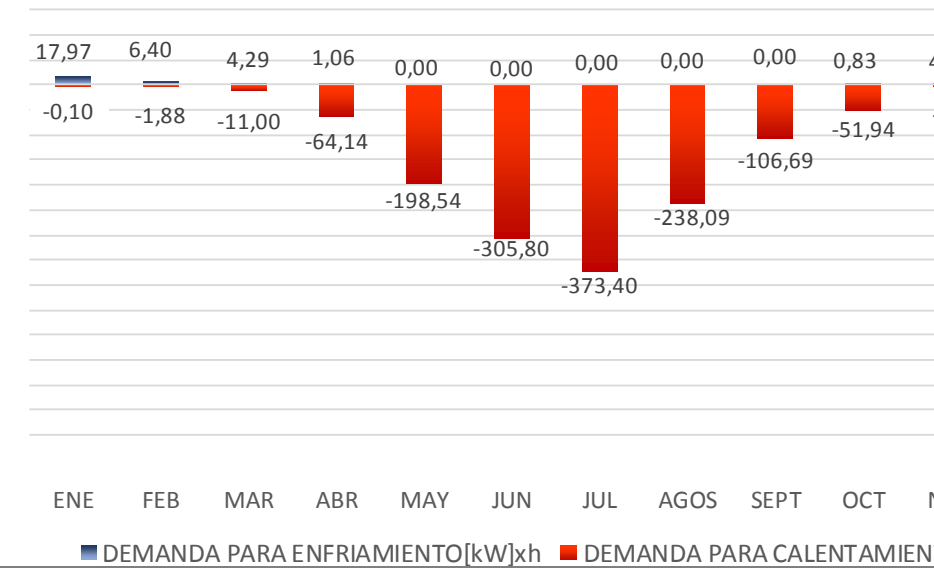
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **205** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.482** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.482** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

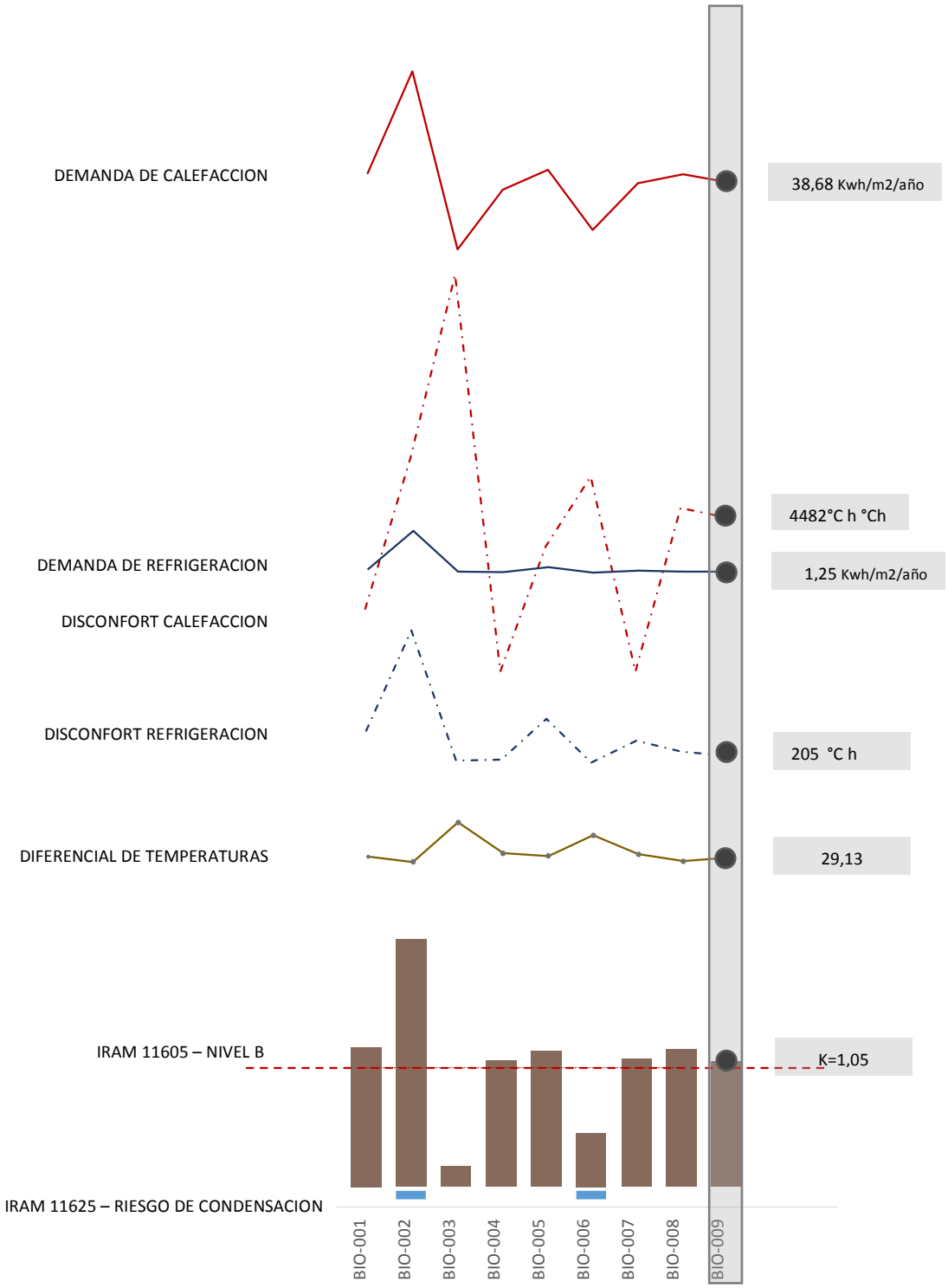



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **43,83** | kWh | 1,25 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1,353,70** | kWh | 38,68 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.397,52** | kWh | **39,93** | kWh/m2/año |

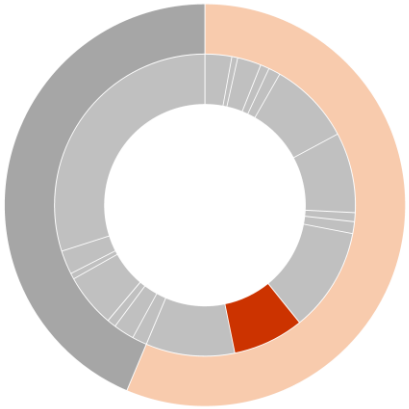
| BIO-009 | MU | BIO CONSTRUCCIÓN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 170 | N° 181 | N° 166 | N° 074 | N° 034 | N° 099 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,04 | 20% | 29,70 | 39,01 | 2,22 | 4477 | 358 |
| INDIVIDUAL | 1,05 | 0% | 29,13 | 38,68 | 1,25 | 4482 | 205 |
| INC. FAMILIA | 101% | 0% | 98% | 99% | 56% | 100% | 57% |
| INC. MUNDIAL | 88% | 0% | 95% | 94% | 21% | 100% | 40% |



# CUBIERTA AJARDINADA

**CAJ 001**: CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 12 CM - 0% HUMEDAD.

**CAJ 002**: CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 12 CM - 50% HUMEDAD.

**CAJ 003**: CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 12 CM - 100% HUMEDAD.

**CAJ 004**: CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 25CM- 0% HUMEDAD.

**CAJ 005**: CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 25CM- 50% HUMEDAD.

**CAJ 006**: CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 25CM- 100% HUMEDAD.

**CAJ 007**: CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 50CM- 0% HUMEDAD.

**CAJ 008**: CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 50CM- 50% HUMEDAD.

**CAJ 009**: CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 50CM- 100% HUMEDAD.

**CAJ 010**: CUBIERTA AJARDINADA CON BANDEJAS SUSTRATO 12 CM HUMEDAD 0%.

**CAJ 011**: CUBIERTA AJARDINADA CON BANDEJAS SUSTRATO 12 CM HUMEDAD 50%.

**CAJ 012**: CUBIERTA AJARDINADA CON BANDEJAS SUSTRATO 12 CM HUMEDAD 100%.

**CAJ 013**: CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 25CM - HUMEDAD 0%.

**CAJ 014**: CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 25CM - HUMEDAD 50%.

**CAJ 015**: CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 25CM - HUMEDAD 100%.

**CAJ 016**: CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 50CM - HUMEDAD 0%.

**CAJ 017**: CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 50CM - HUMEDAD 50%.

**CAJ 018**: CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 50CM - HUMEDAD 100%.

**CAJ 019**: CUBIERTA AJARDINADA BIOCONSTRUCCION - SUSTRATO 12 CM.

**CAJ 020**: CUBIERTA AJARDINADA BIOCONSTRUCCION - SUSTRATO 25 CM.

**CAJ 021**: CUBIERTA AJARDINADA BIOCONSTRUCCION - SUSTRATO 50 CM.

**CAJ 022**: CUBIERTA AJARDINADA SOBRE LOSA MACIZA DE H°A° Y AISLACION DE ADOBE- SUSTRATO 12 CM.

**CAJ 023**: CUBIERTA AJARDINADA SOBRE LOSA MACIZA DE H°A° Y AISLACION DE ADOBE- SUSTRATO 25 CM.

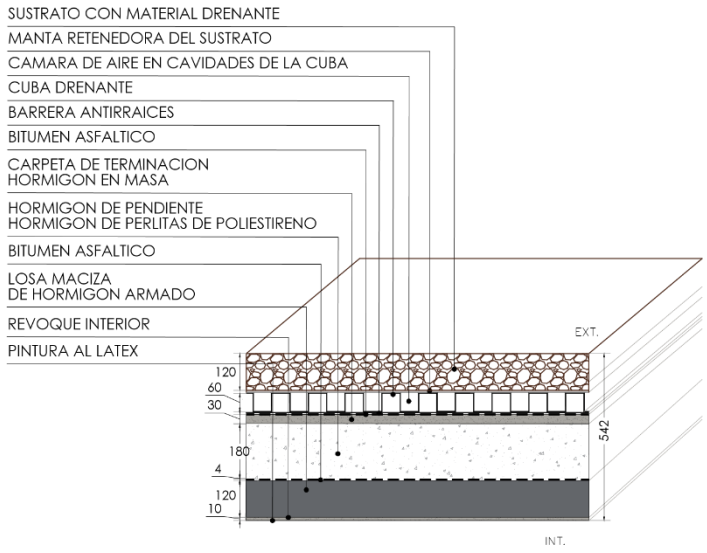
**CAJ 024**: CUBIERTA AJARDINADA SOBRE LOSA MACIZA DE H°A° Y AISLACION DE ADOBE- SUSTRATO 50 CM.

| CAJ-001 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 12 CM - 0% HUMEDAD.

## INDICE DE TRANSMITANCIA TERMICA "K"

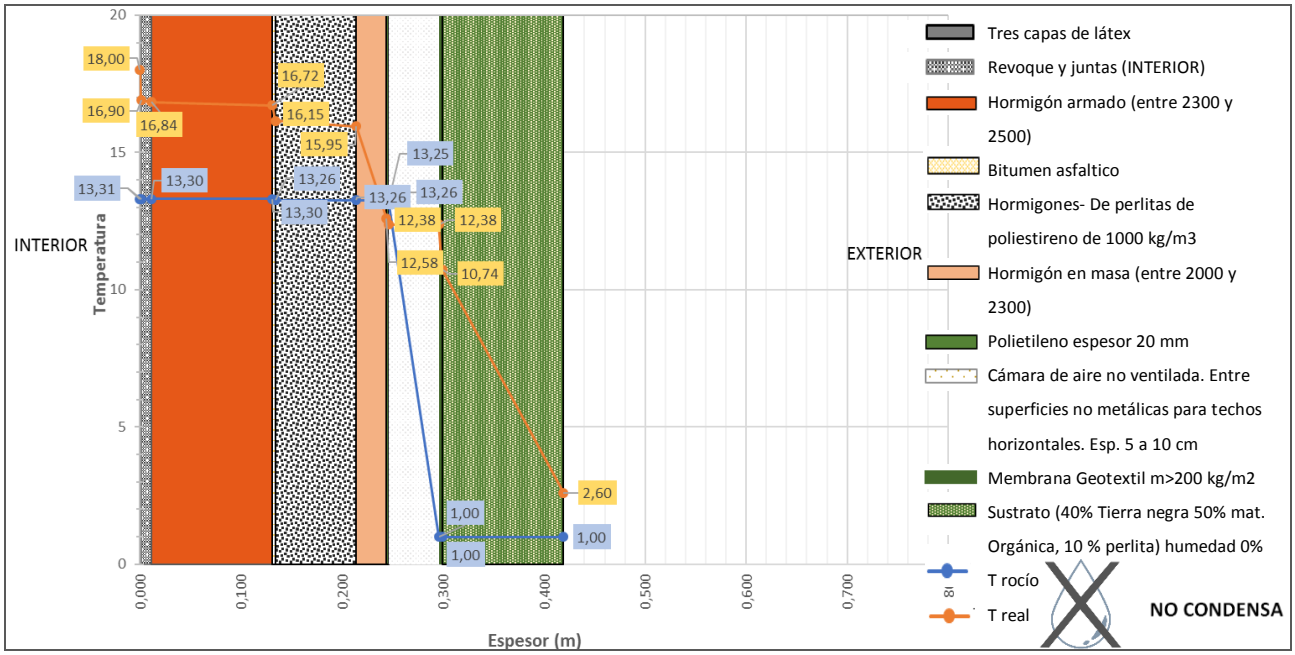
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,68 | 0,71 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



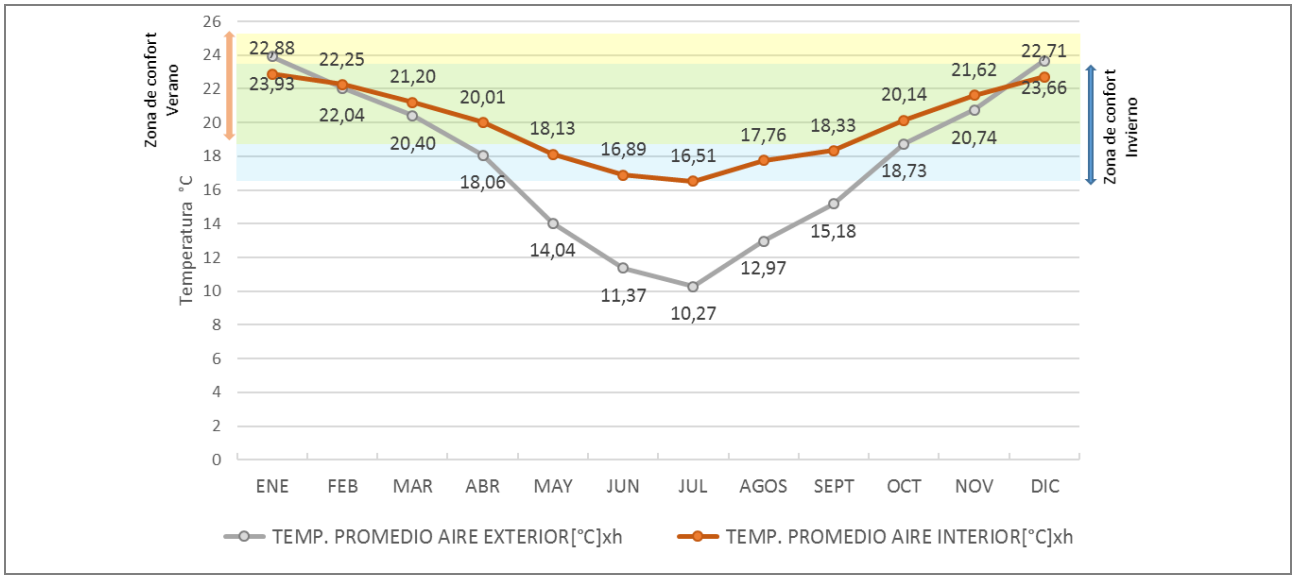

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 111,7 | 92,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **18,5** | **16,8** |
| | **Amortiguamiento:** | 0,001 | 0,002 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,4** | **15,9** |
| | **Amortiguamiento:** | 0,065 | 0,016 |

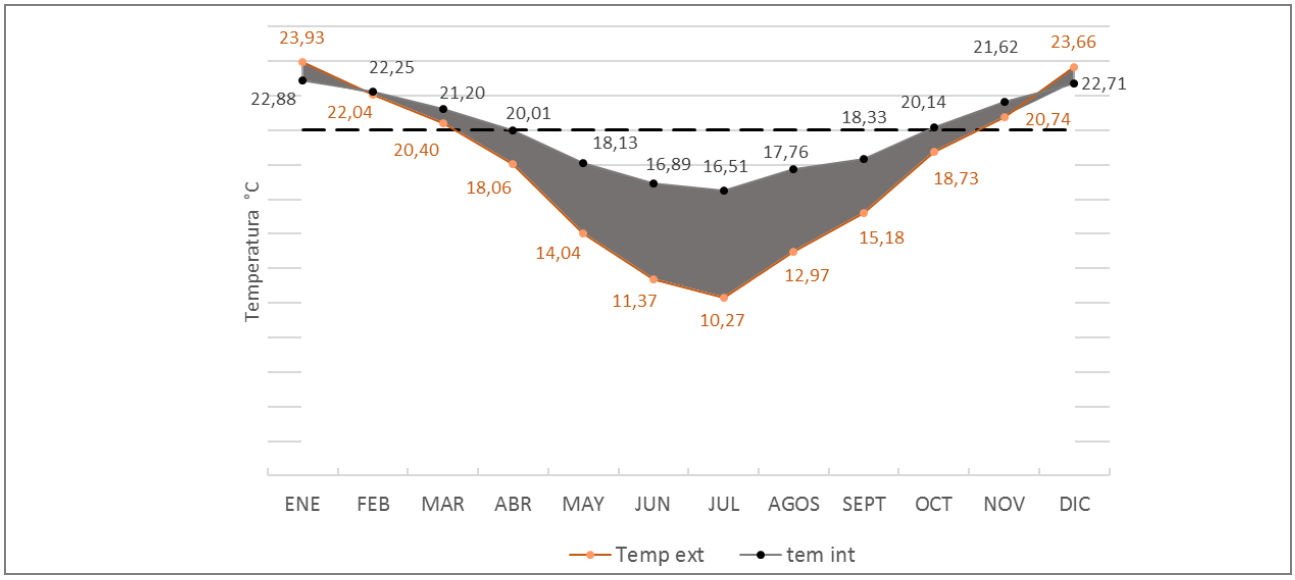
| CAJ-001 | CU | CUBIERTA AJARDINADA |
|---|---|---|

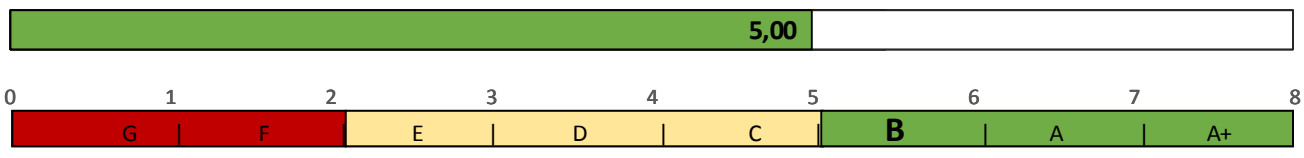
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,81** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,31** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



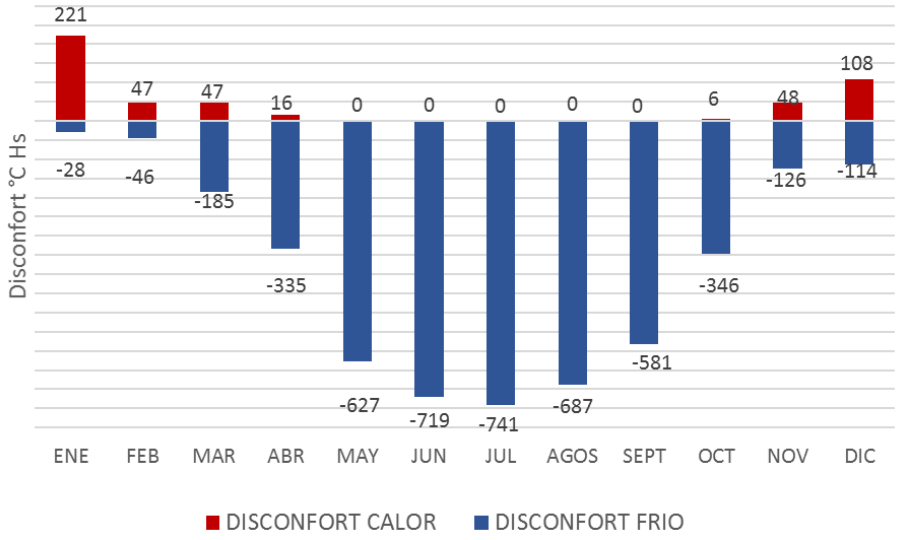




5,00 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| CAJ-001 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

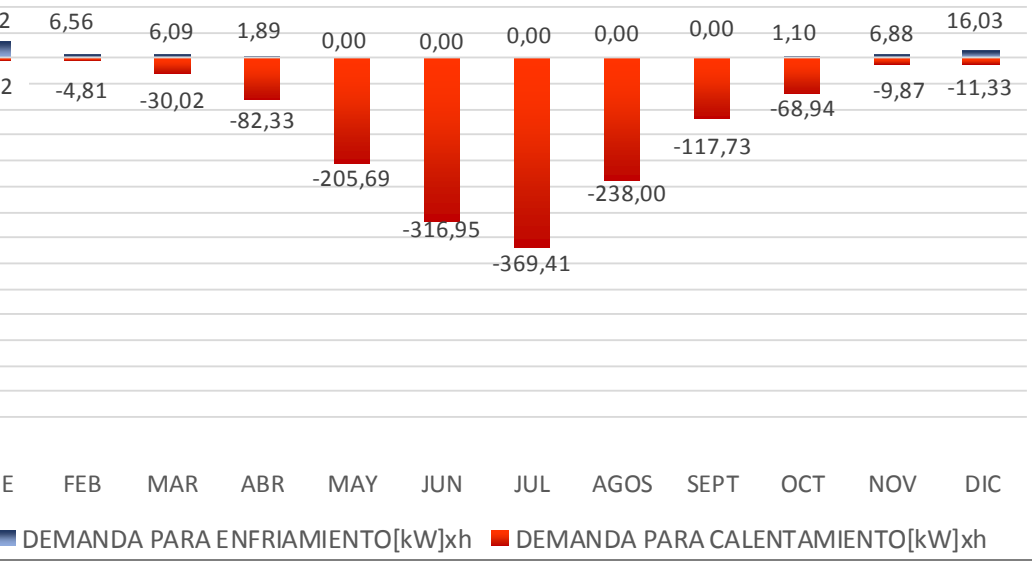
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **492** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.535** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.027** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

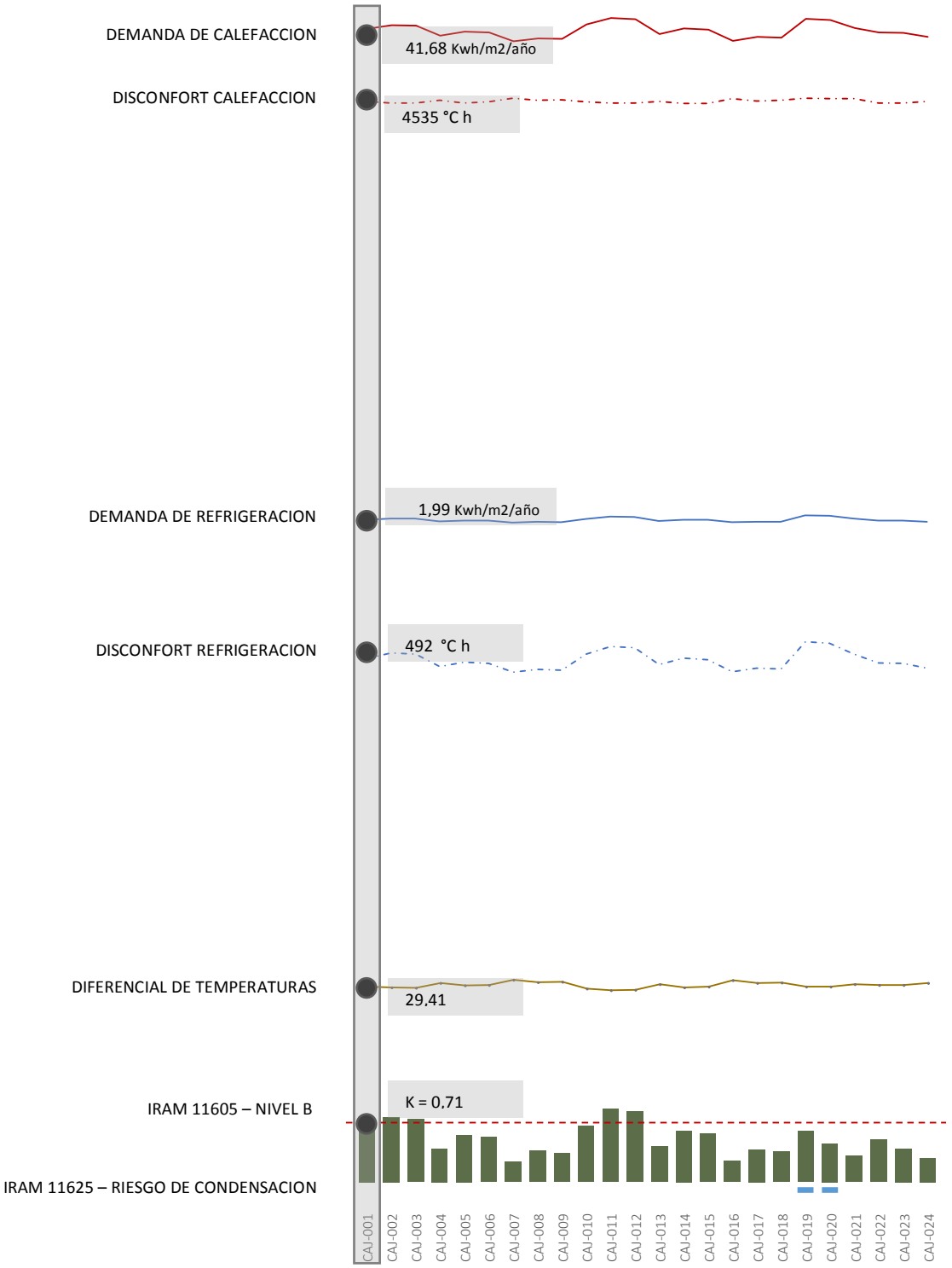



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **69,59** | kWh | 1,99 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.458,92** | kWh | 41,68 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.528,51** | kWh | **43,67** | kWh/m2/año |

| CAJ-001 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 083 | N° 079 | N° 046 | N° 041 | N° 016 | N° 042 |



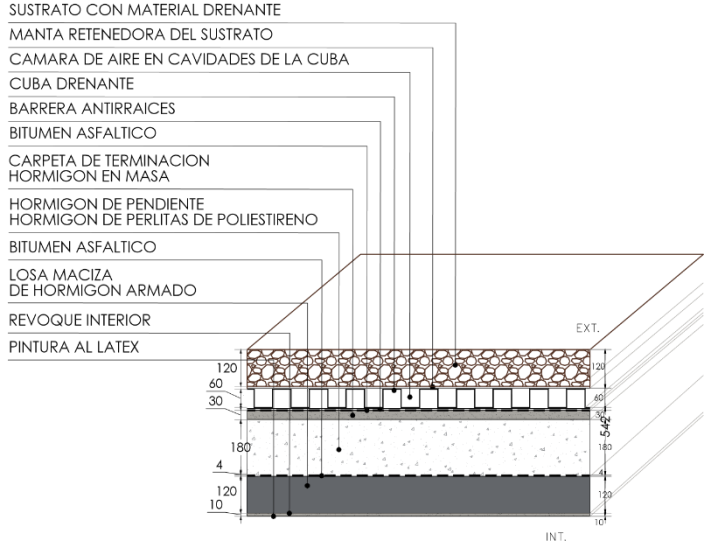

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,71 | 0% | 29,41 | 41,68 | 1,99 | 4535 | 492 |
| INC. FAMILIA | 121,11% | 0% | 99,14% | 101,38% | 101,99% | 99,95% | 103,75% |
| INC. MUNDIAL | 87,65% | 0% | 99,03% | 93,71% | 48,38% | 99,43% | 77,89% |

| CAJ-002 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 12 CM - 50% HUMEDAD.

## INDICE DE TRANSMITANCIA TERMICA "K"

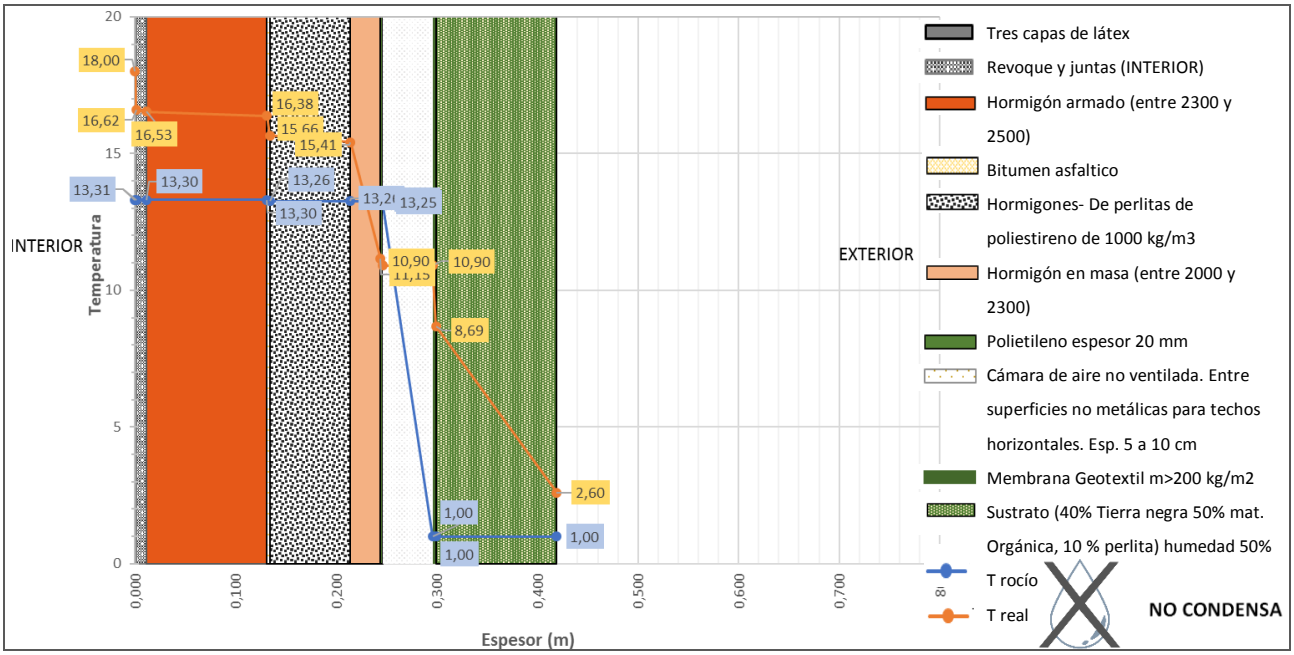
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,85 | 0,90 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



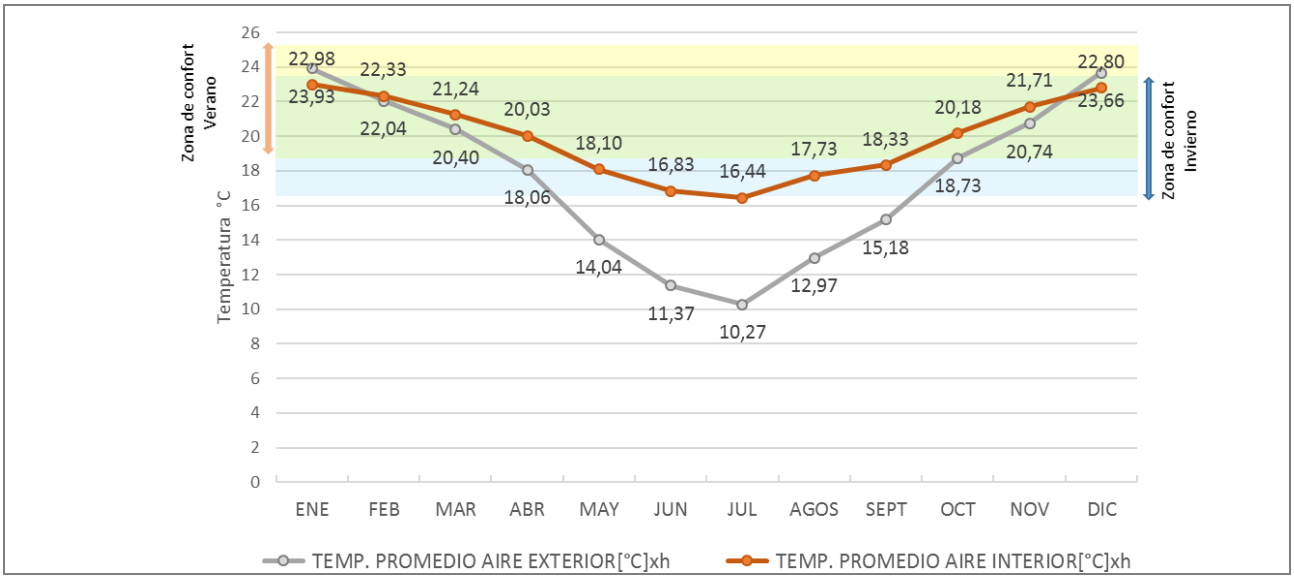

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 159,1 | 120,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **16,9** | **14,8** |
| | **Amortiguamiento:** | 0,002 | 0,004 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,2** | **13,9** |
| | **Amortiguamiento:** | 0,053 | 0,027 |

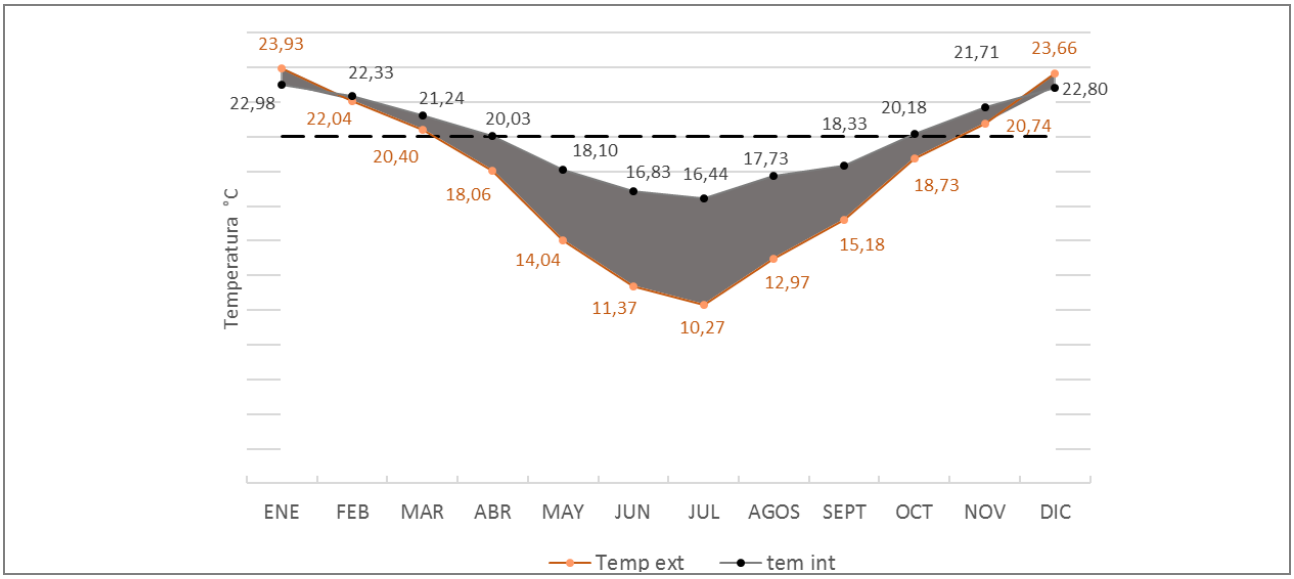
| CAJ-002 | CU | CUBIERTA AJARDINADA |
|---|---|---|

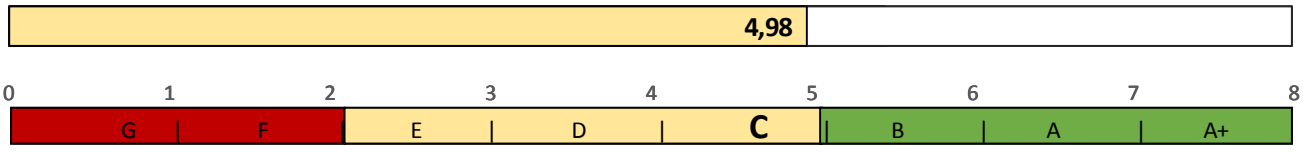
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,04** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,18** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



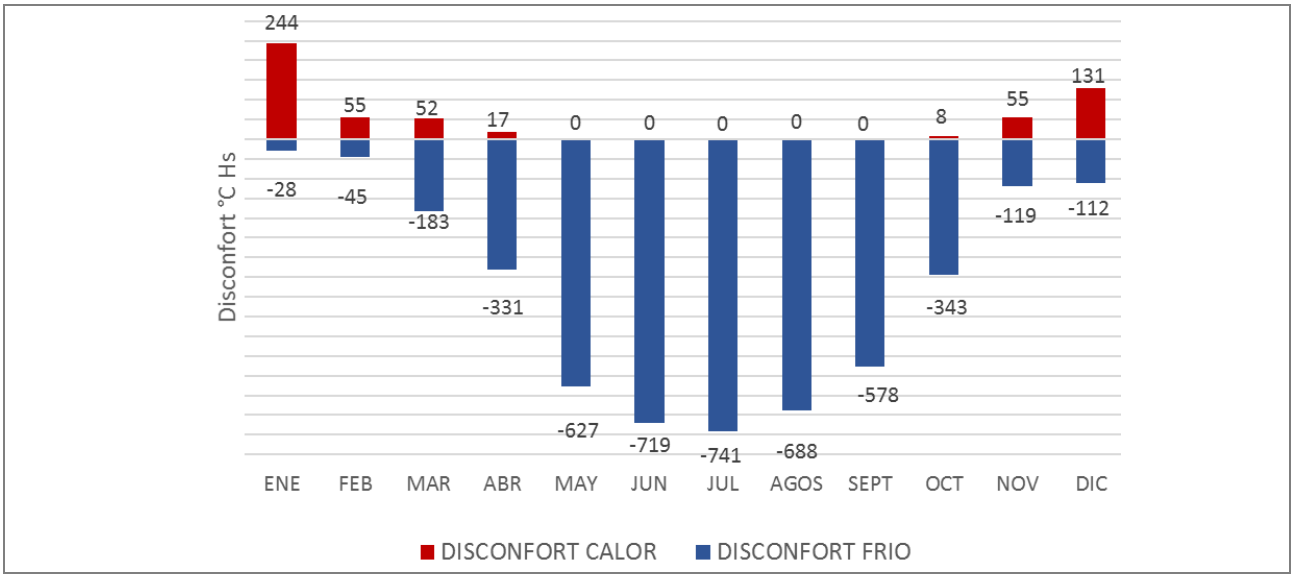




4,98 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| CAJ-002 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

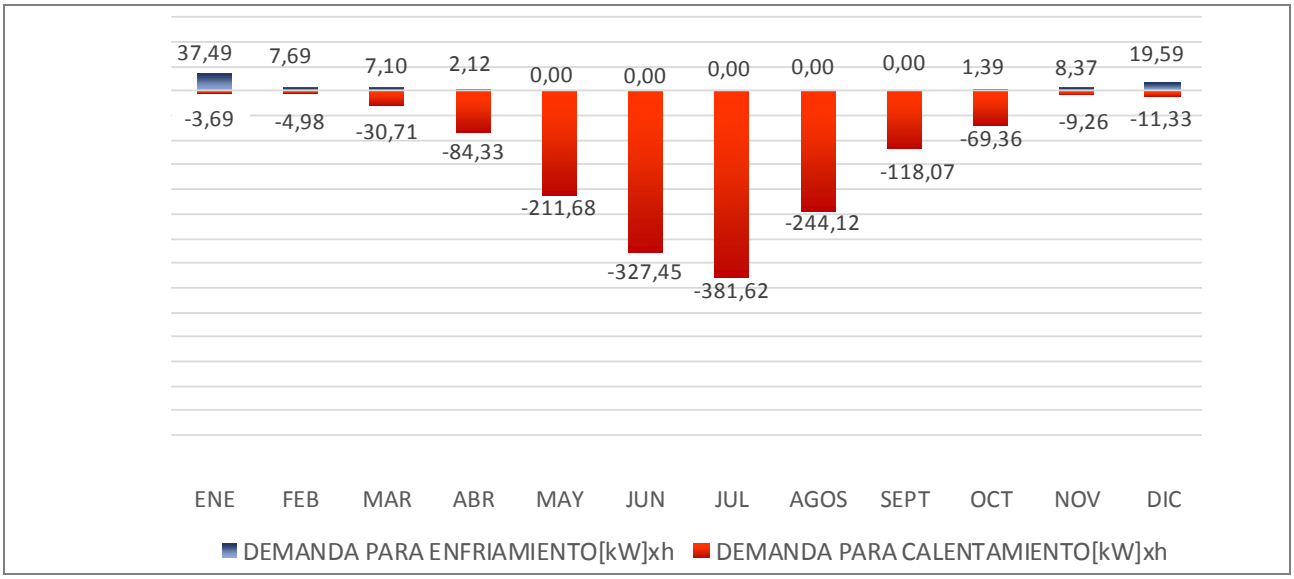
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **561** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.515** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.076** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

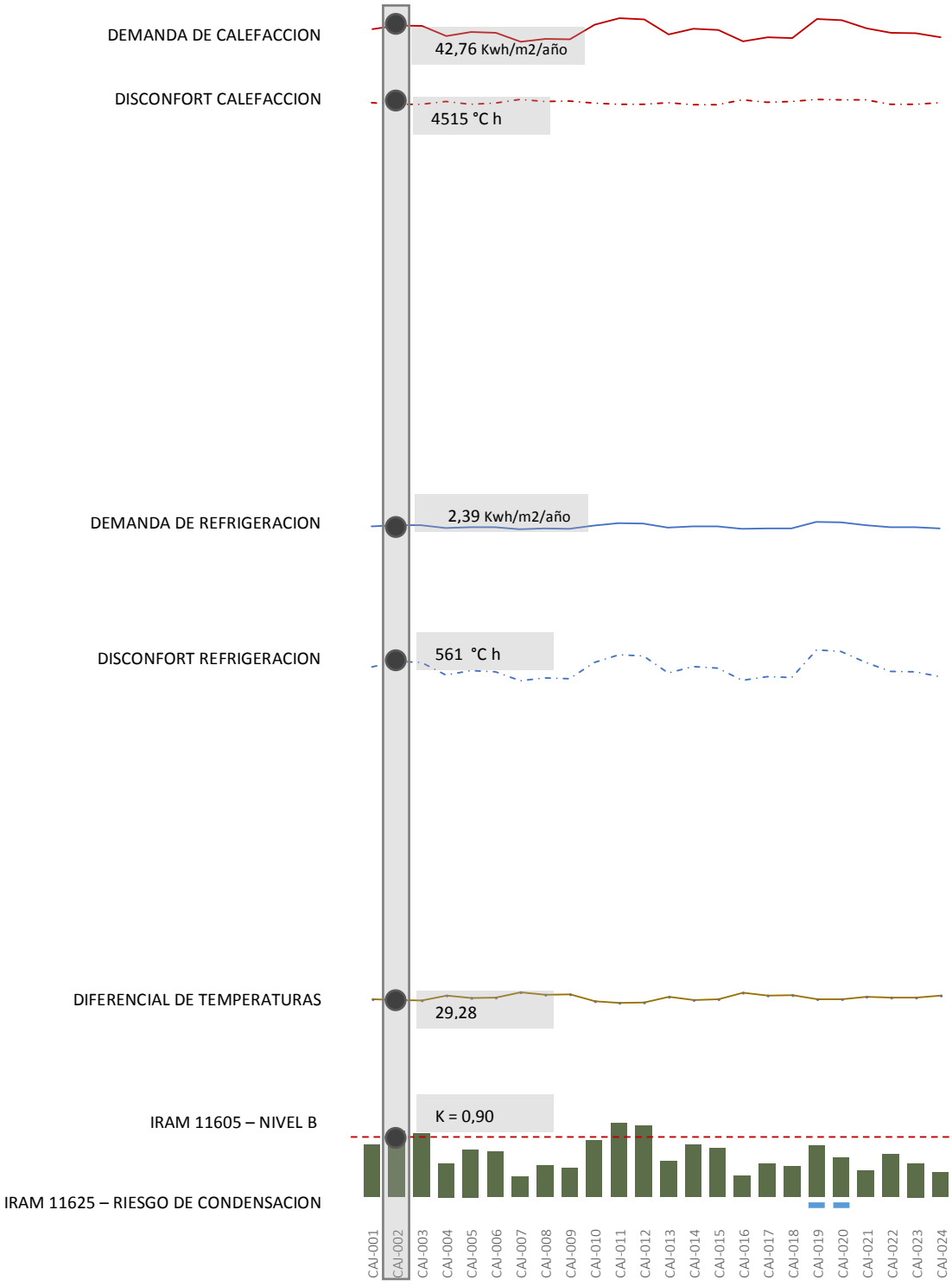



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **83,75** | kWh | 2,39 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.496,60** | kWh | 42,76 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.580,35** | kWh | **45,15** | kWh/m2/año |

| CAJ-002 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 091 | N° 087 | N° 059 | N° 053 | N° 006 | N° 053 |



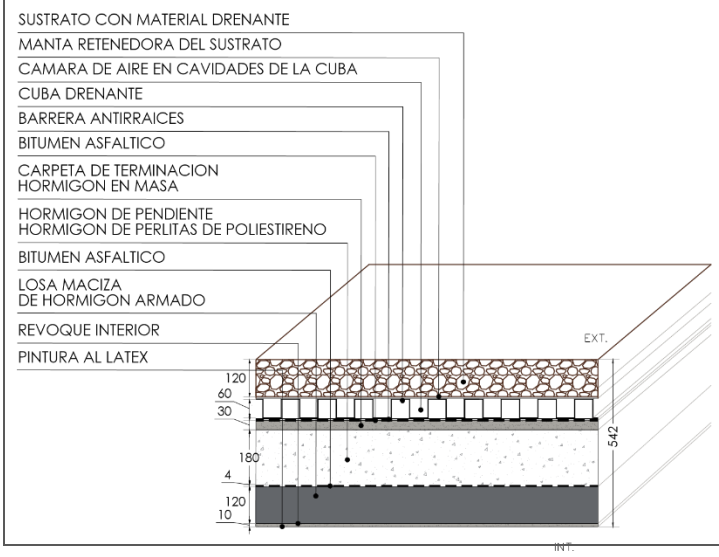

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,9 | 0% | 29,28 | 42,76 | 2,39 | 4515 | 561 |
| INC. FAMILIA | 153,52% | 0% | 98,70% | 104,01% | 122,49% | 99,51% | 118,30% |
| INC. MUNDIAL | 111,11% | 0% | 98,59% | 96,14% | 58,10% | 98,99% | 88,81% |

| CAJ-003 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 12 CM - 100% HUMEDAD.

## INDICE DE TRANSMITANCIA TERMICA "K"

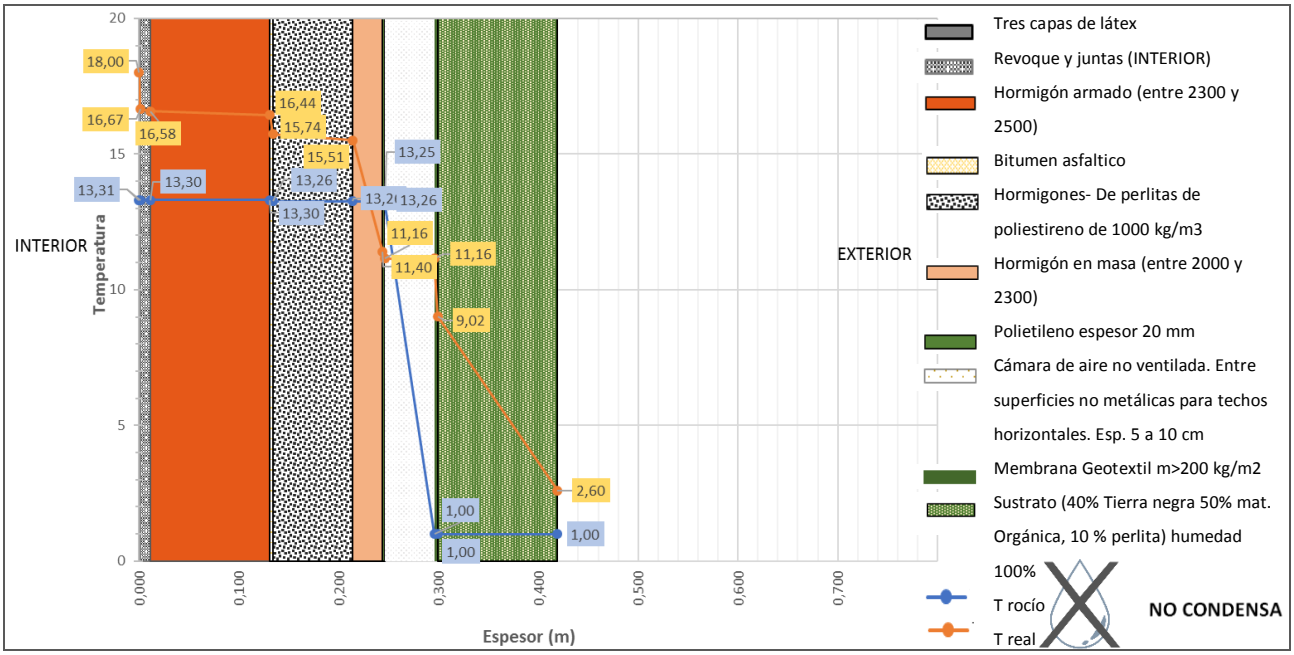
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,82 | 0,87 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



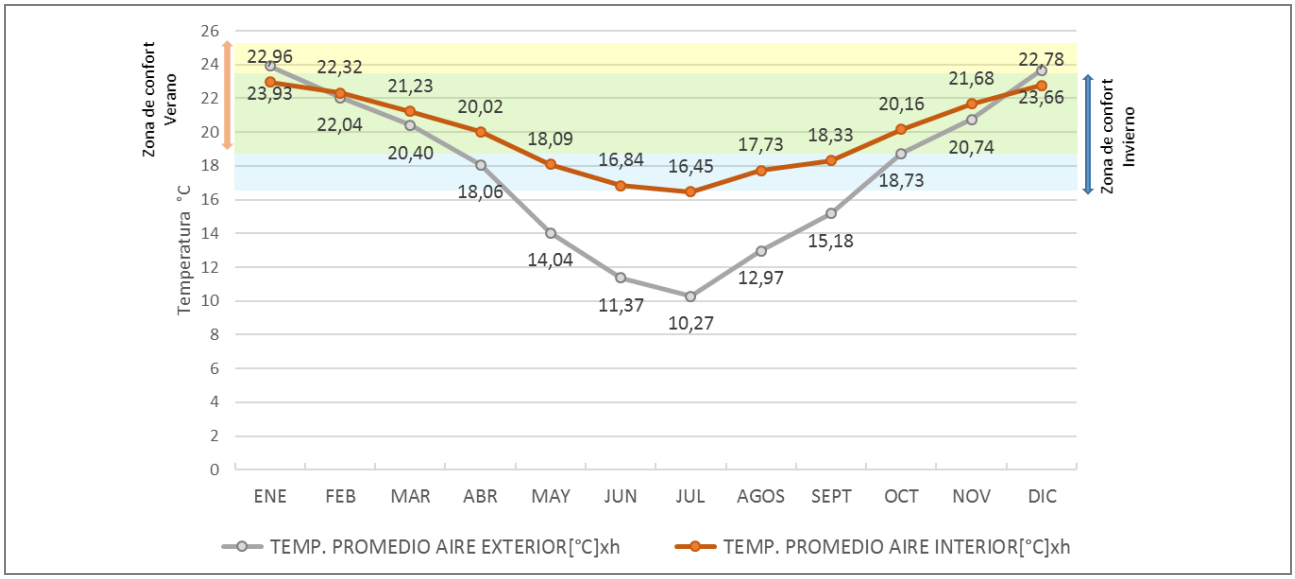

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 115,7 | 115,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **15,1** | **15,1** |
| | **Amortiguamiento:** | 0,004 | 0,004 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,0** | **13,6** |
| | **Amortiguamiento:** | 0,124 | 0,028 |

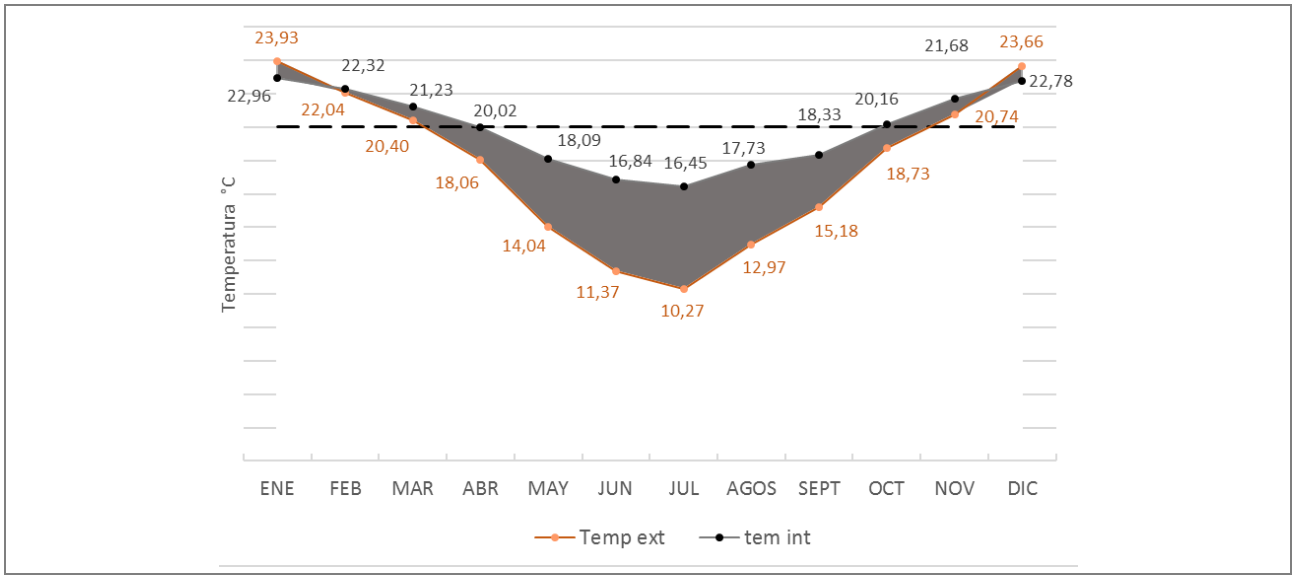
| CAJ-003 | CU | CUBIERTA AJARDINADA |
|---|---|---|

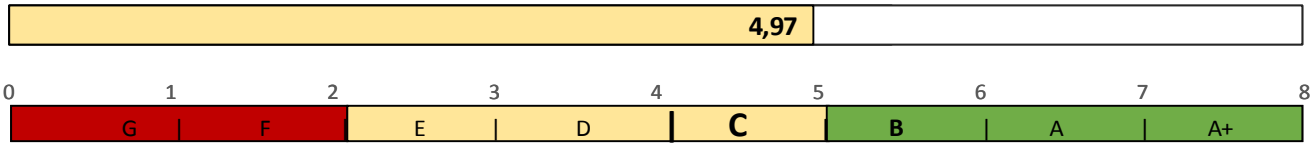
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,97** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,20** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



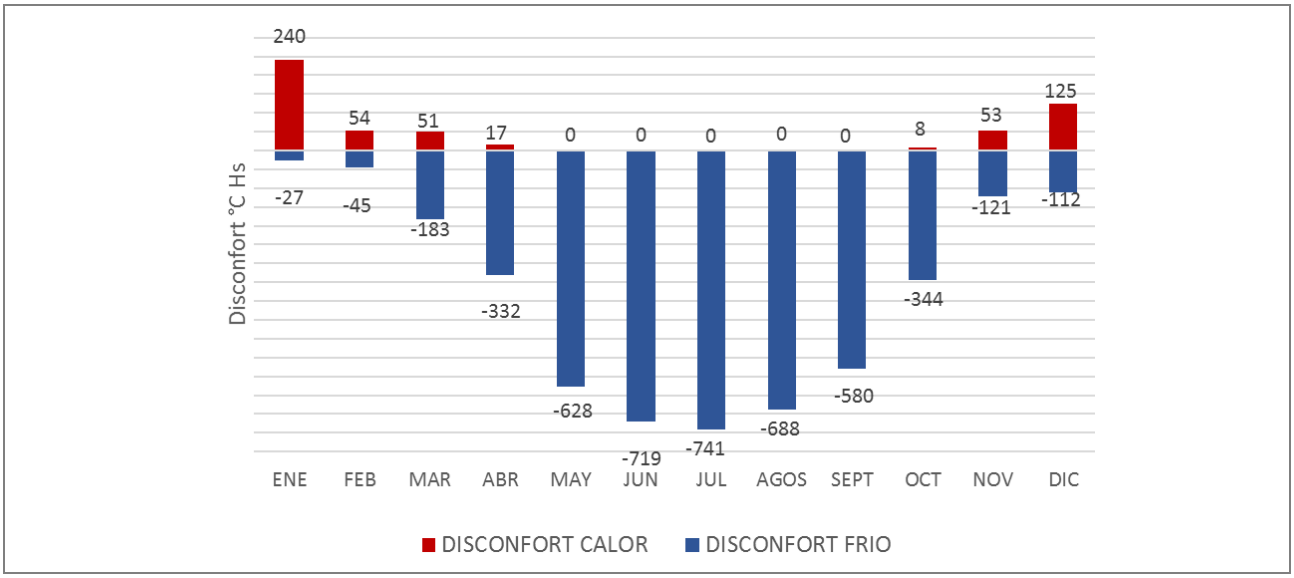




4,97 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| CAJ-003 | CU | CUBIERTA AJARDINADA |
|---|---|---|

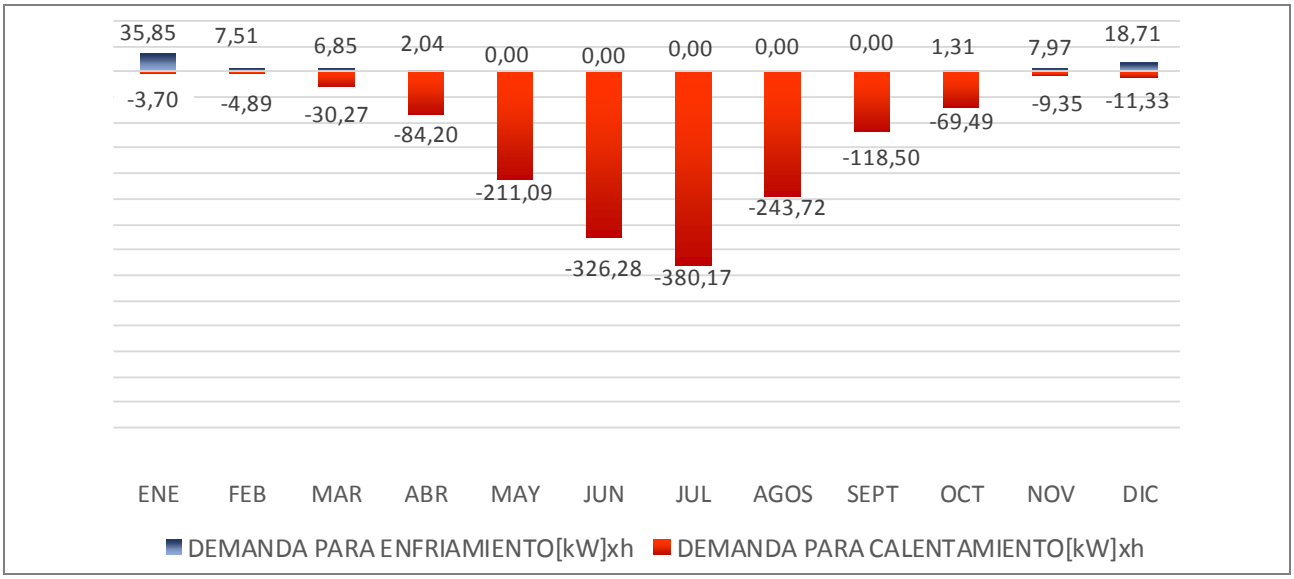
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **547** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.519** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.066** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

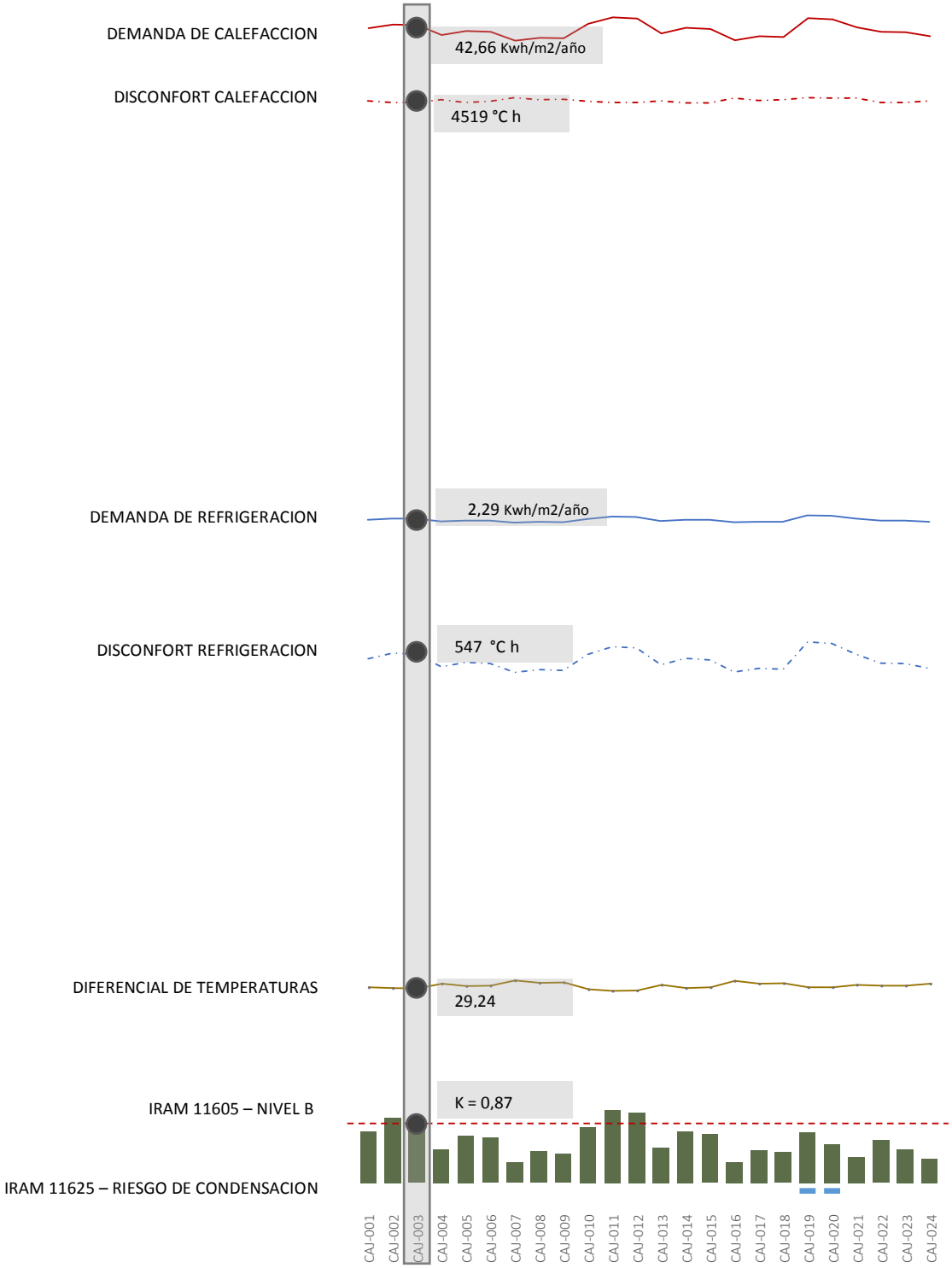



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **80,26** | kWh | 2,29 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.493** | kWh | 42,66 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.573,26** | kWh | **44,95** | kWh/m2/año |

| CAJ-003 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 090 | N° 089 | N° 057 | N° 050 | N° 012 | N° 050 |



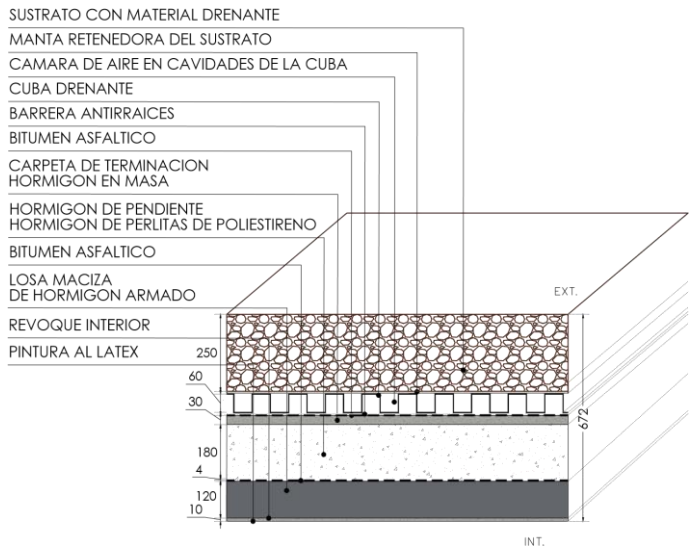

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,87 | 0% | 29,24 | 42,66 | 2,29 | 4519 | 547 |
| INC. FAMILIA | 148,40% | 0% | 98,56% | 103,76% | 117,36% | 99,60% | 115,35% |
| INC. MUNDIAL | 107,41% | 0% | 98,45% | 95,91% | 55,67% | 99,08% | 86,60% |

| CAJ-004 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 25CM- 0% HUMEDAD.

## INDICE DE TRANSMITANCIA TERMICA "K"

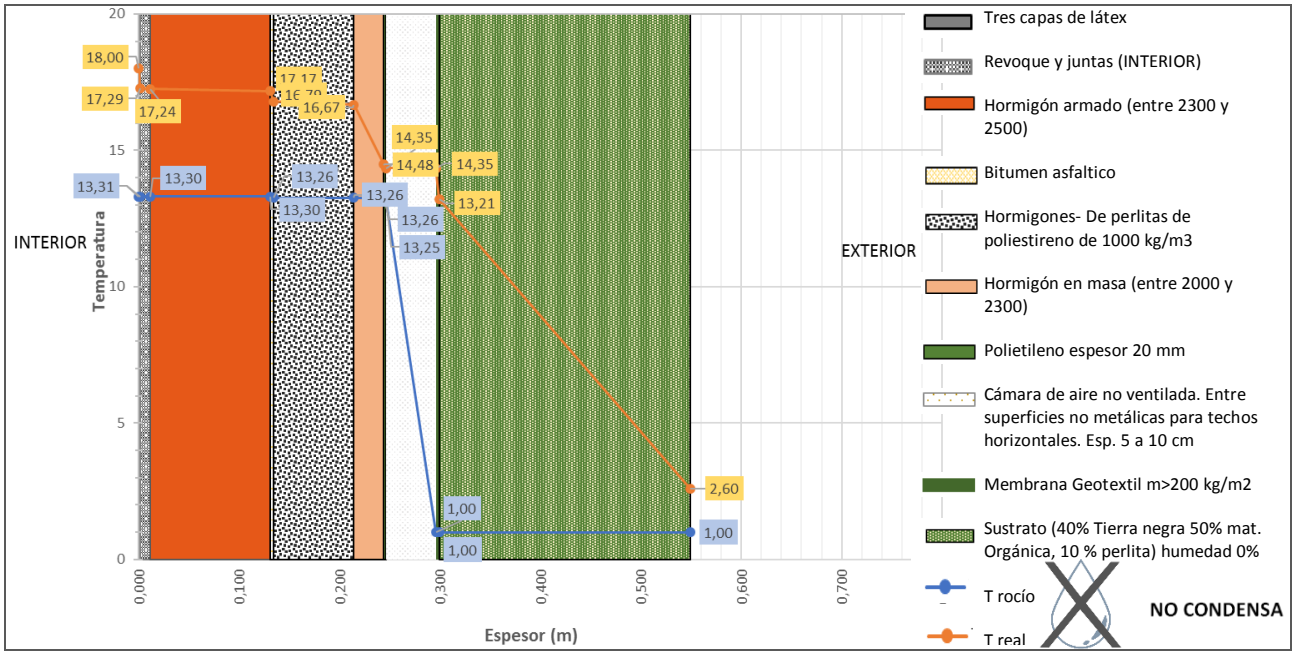
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,45 | 0,46 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



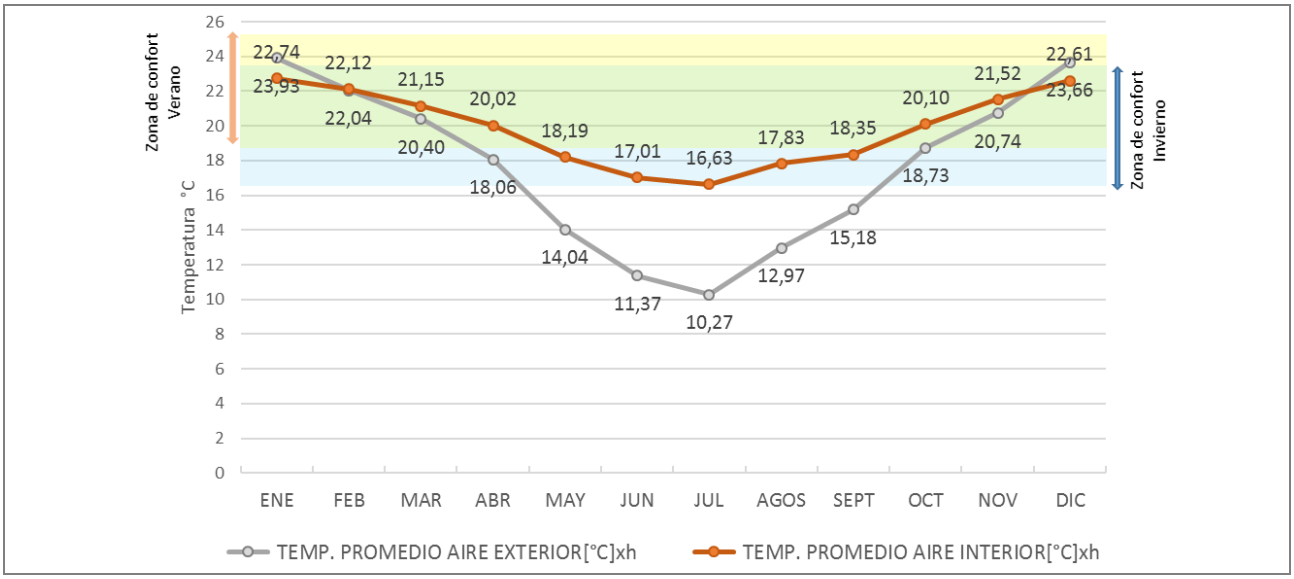

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 82,7 | 58,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **25,4** | **21,3** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **13,8** | **21,4** |
| | **Amortiguamiento:** | 0,027 | 0,004 |

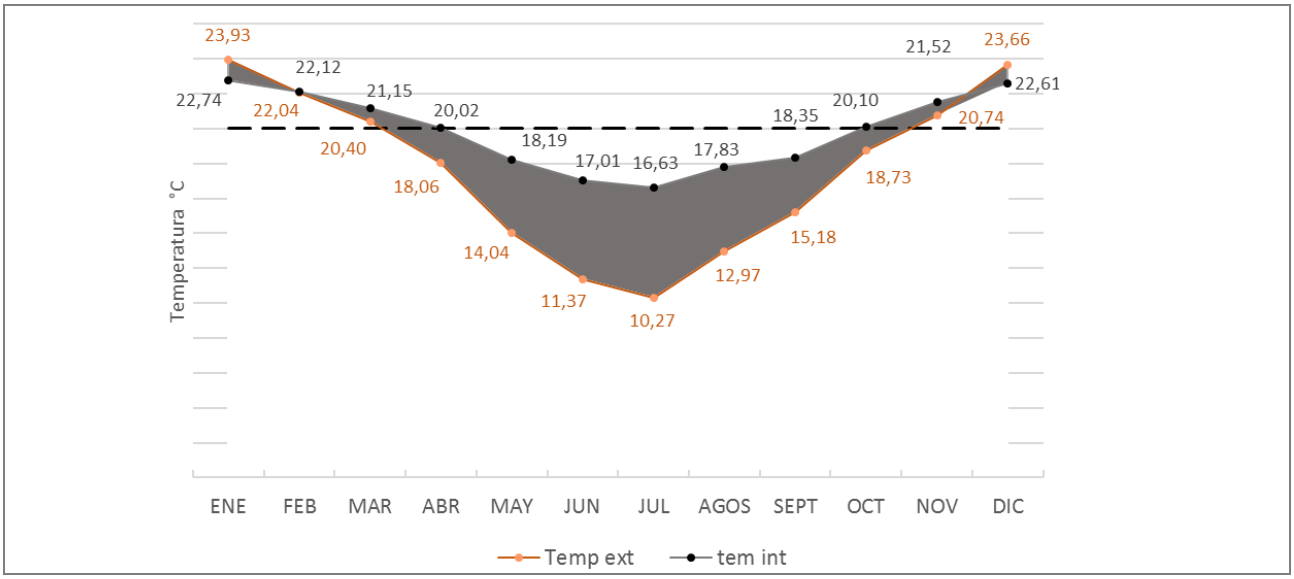
| CAJ-004 | CU | CUBIERTA AJARDINADA |
|---|---|---|

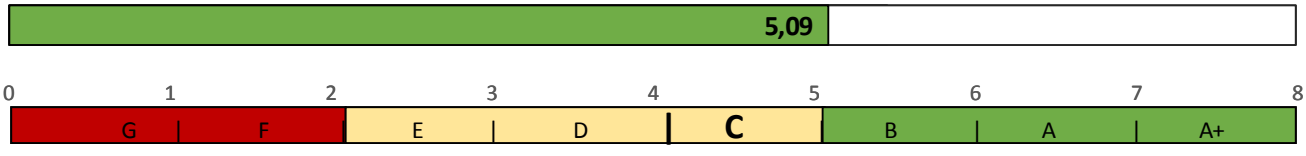
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,52** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,54** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



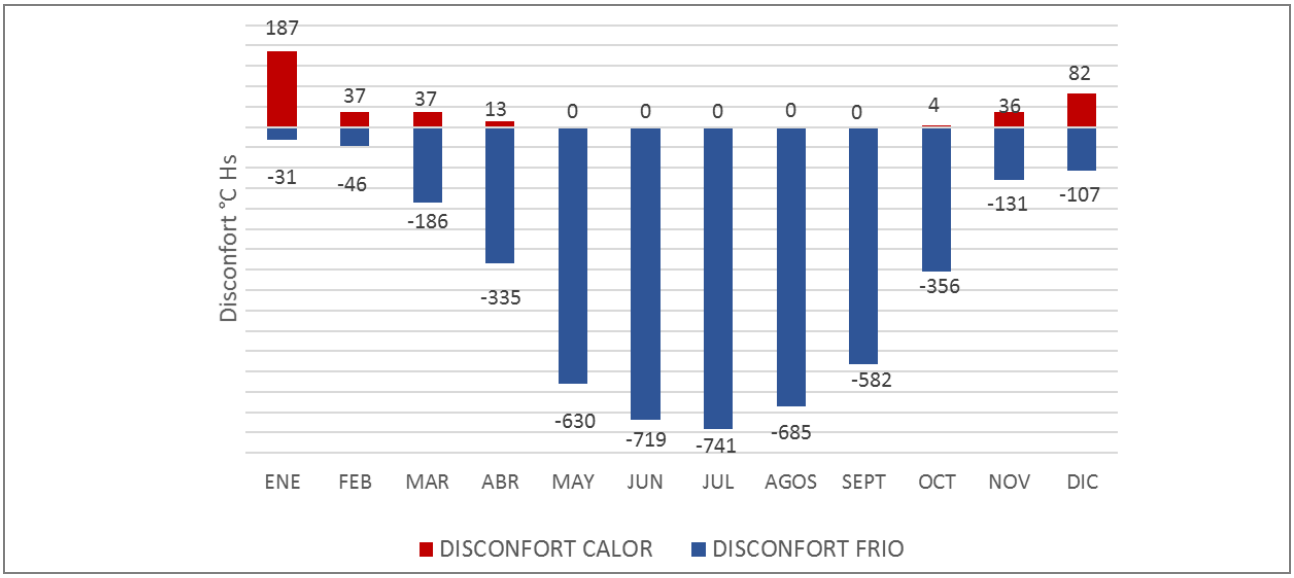




5,09 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| CAJ-004 | CU | CUBIERTA AJARDINADA |
|---|---|---|

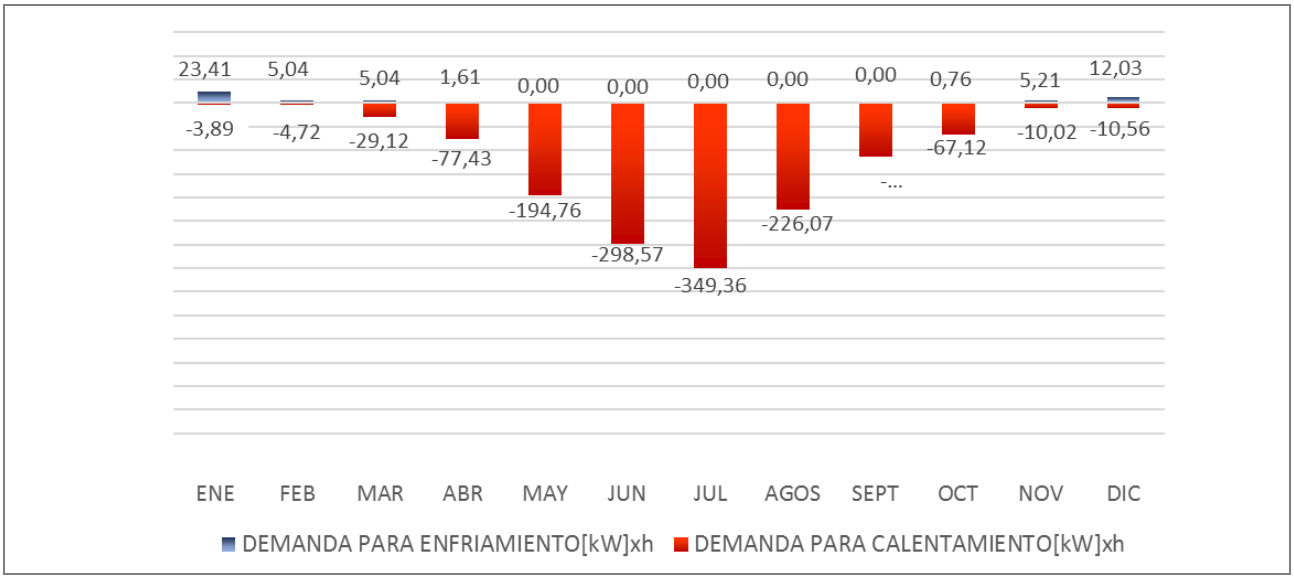
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **398** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.548** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.946** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

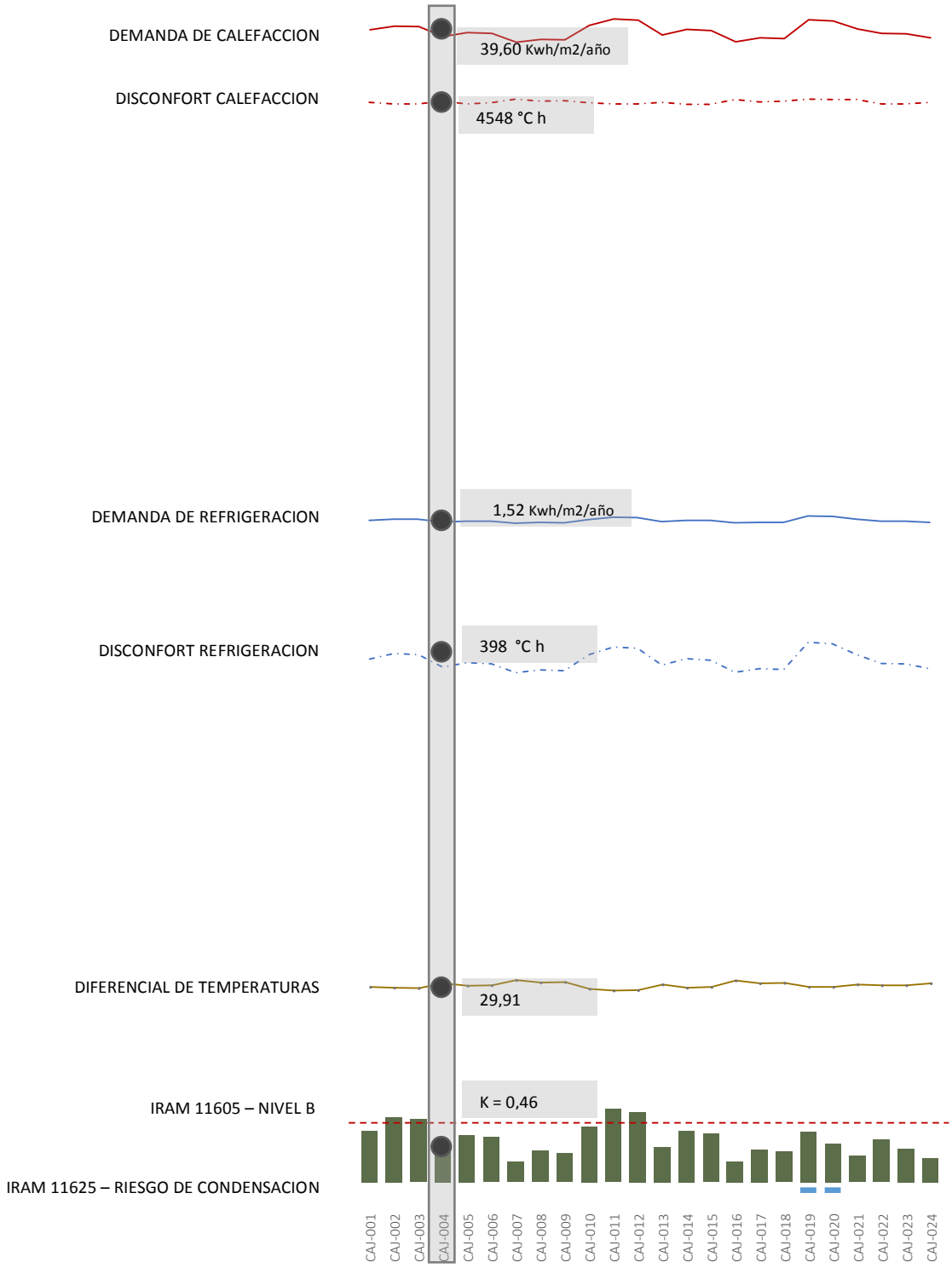



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **53,10** | kWh | 1,52 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.385,89** | kWh | 39,60 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.438,99** | kWh | **41,11** | kWh/m2/año |

| CAJ-004 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 054 | N° 049 | N° 013 | N° 011 | N° 034 | N° 011 |



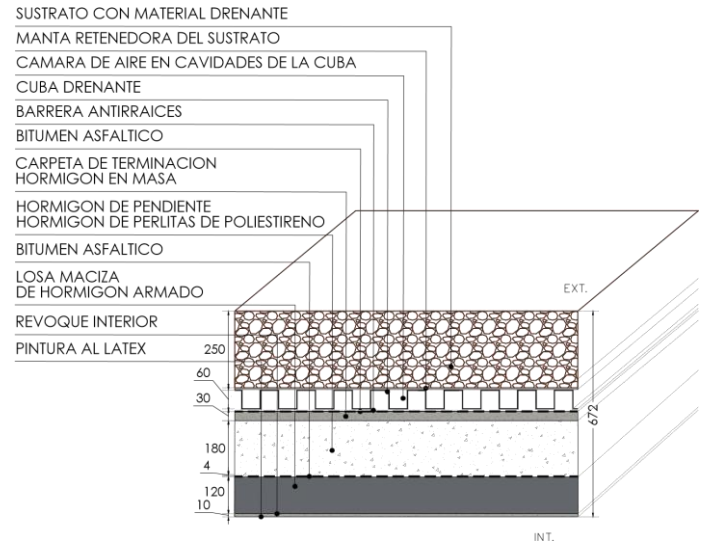

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,46 | 0% | 29,91 | 39,6 | 1,52 | 4548 | 398 |
| INC. FAMILIA | 78,46% | 0% | 100,82% | 96,32% | 77,90% | 100,24% | 83,93% |
| INC. MUNDIAL | 56,79% | 0% | 100,71% | 89,03% | 36,95% | 99,72% | 63,01% |

| CAJ-005 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 25CM- 50% HUMEDAD.

## INDICE DE TRANSMITANCIA TERMICA "K"

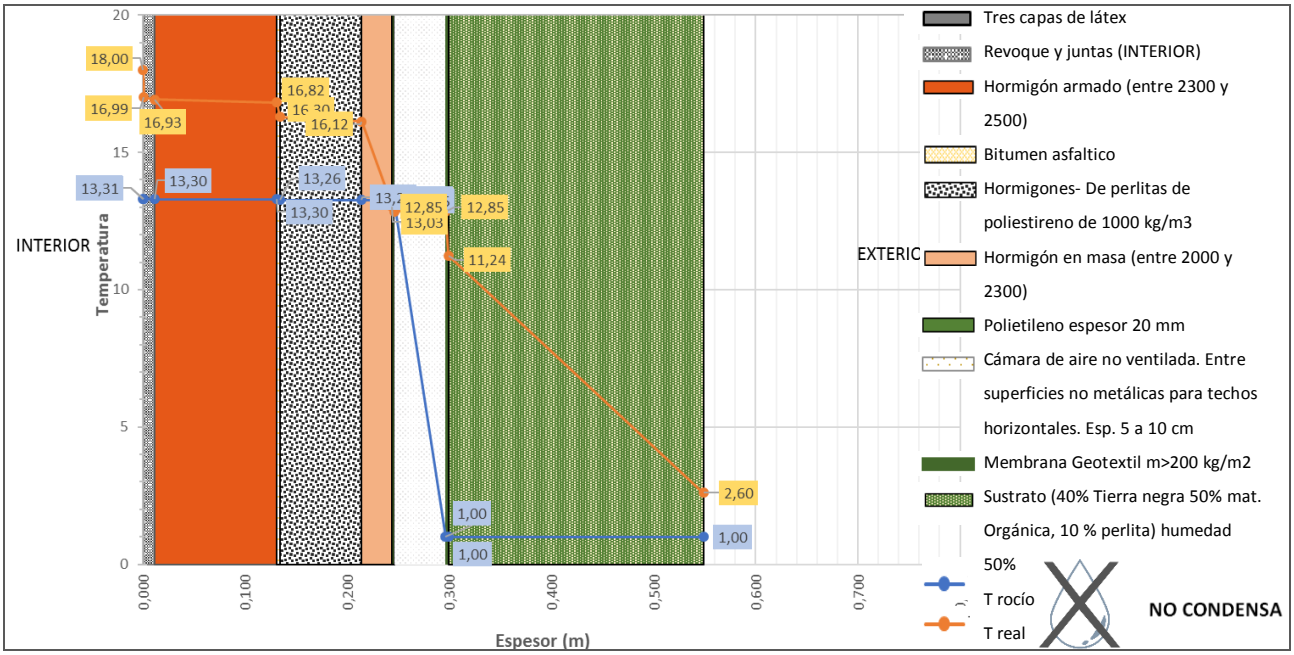
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,62 | 0,65 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



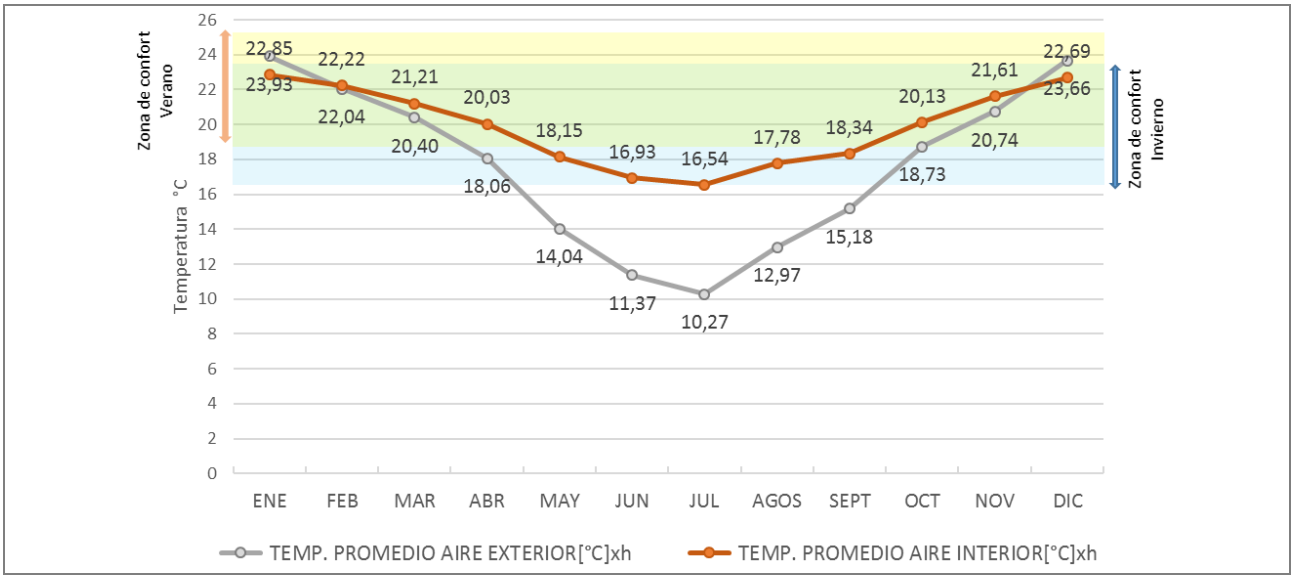

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 140,3 | 84,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **22,8** | **17,7** |
| | **Amortiguamiento:** | 0,000 | 0,001 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **14,8** | **18,0** |
| | **Amortiguamiento:** | 0,021 | 0,009 |

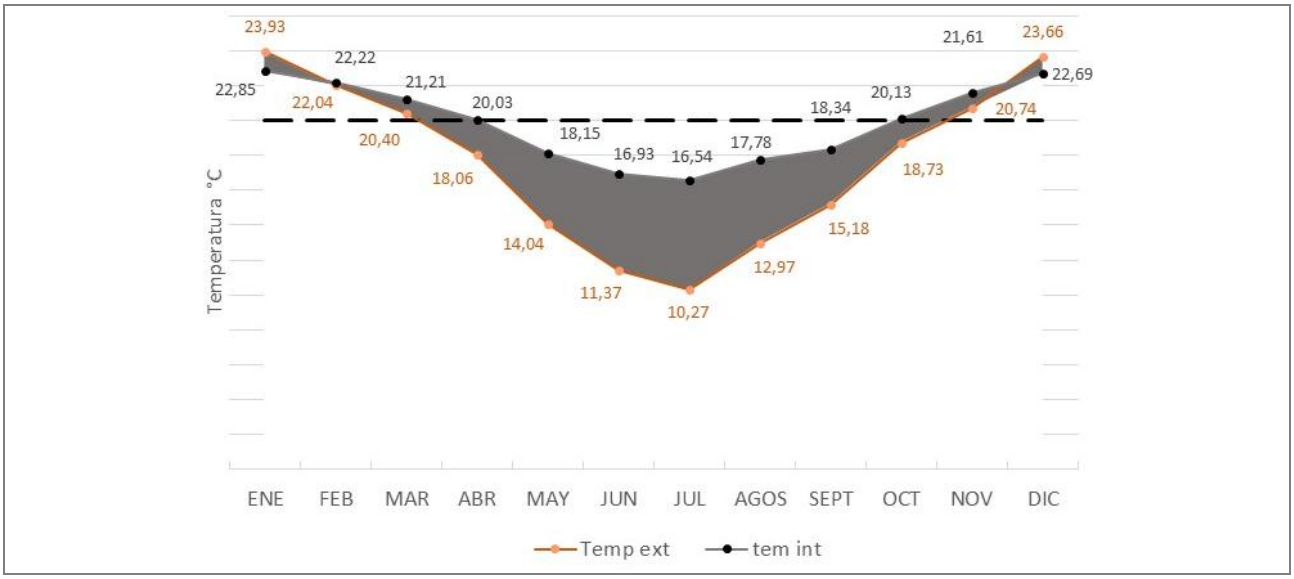
| CAJ-005 | CU | CUBIERTA AJARDINADA |
|---|---|---|

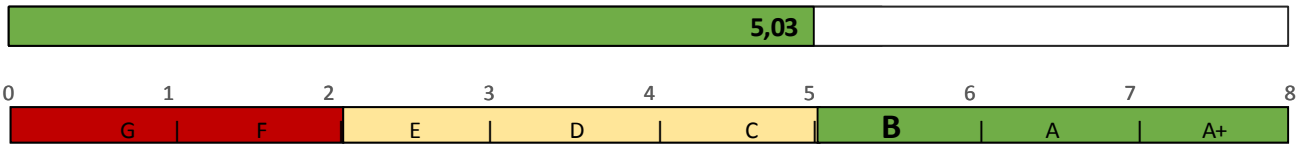
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,66** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,42** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



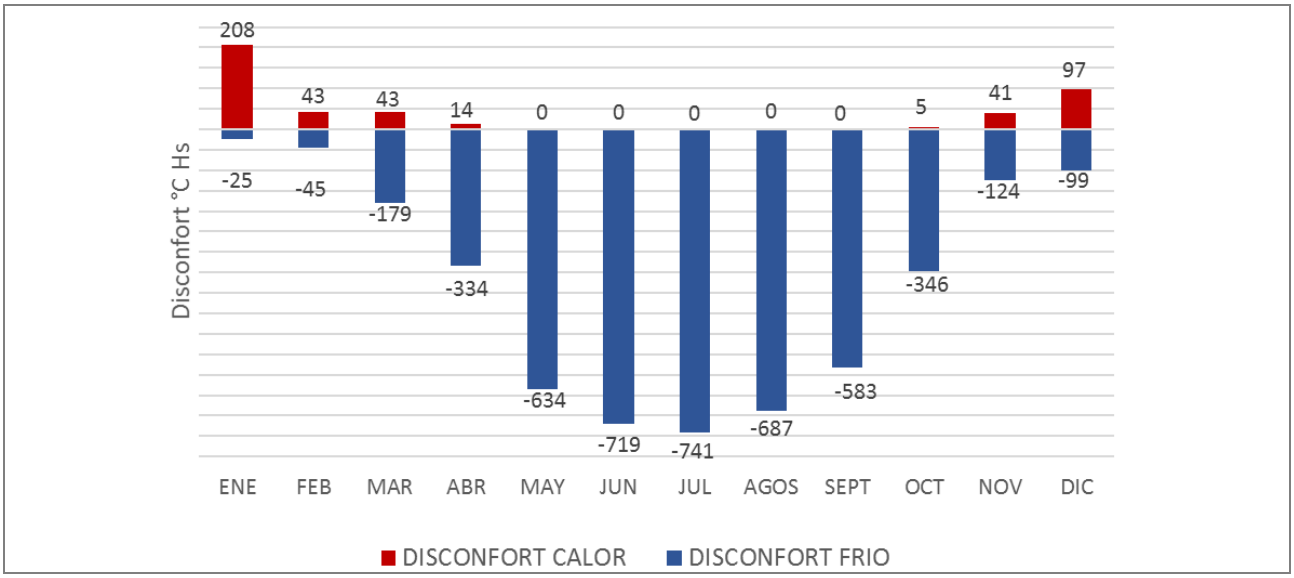




5,03 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| CAJ-005 | CU | CUBIERTA AJARDINADA |
|---|---|---|

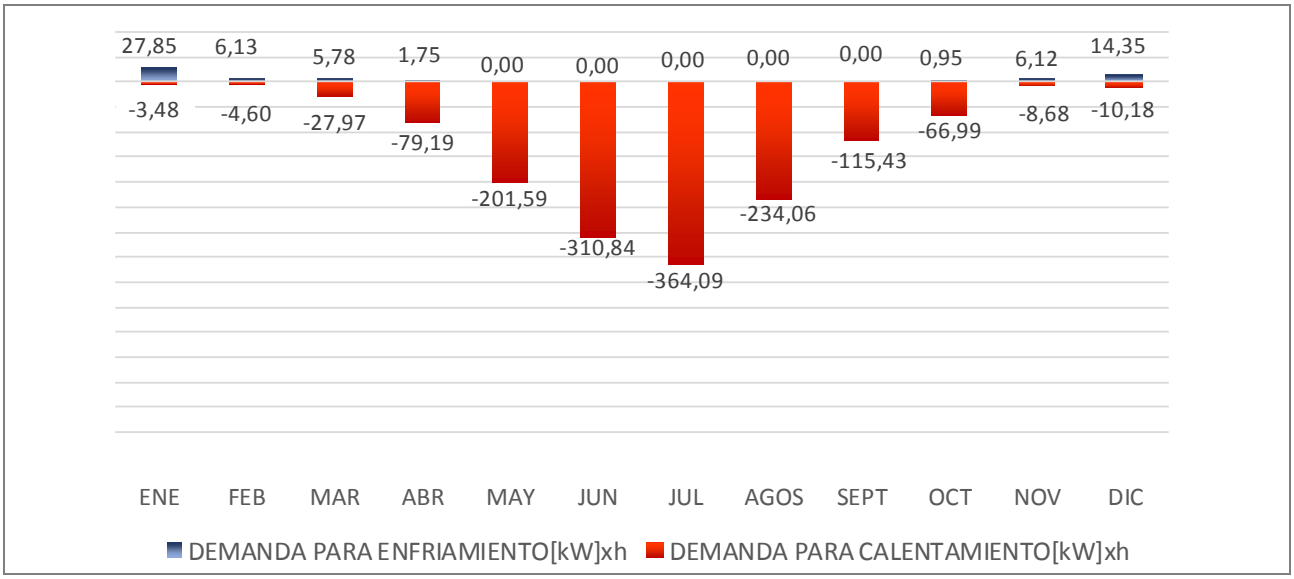
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **450** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.517** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.968** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

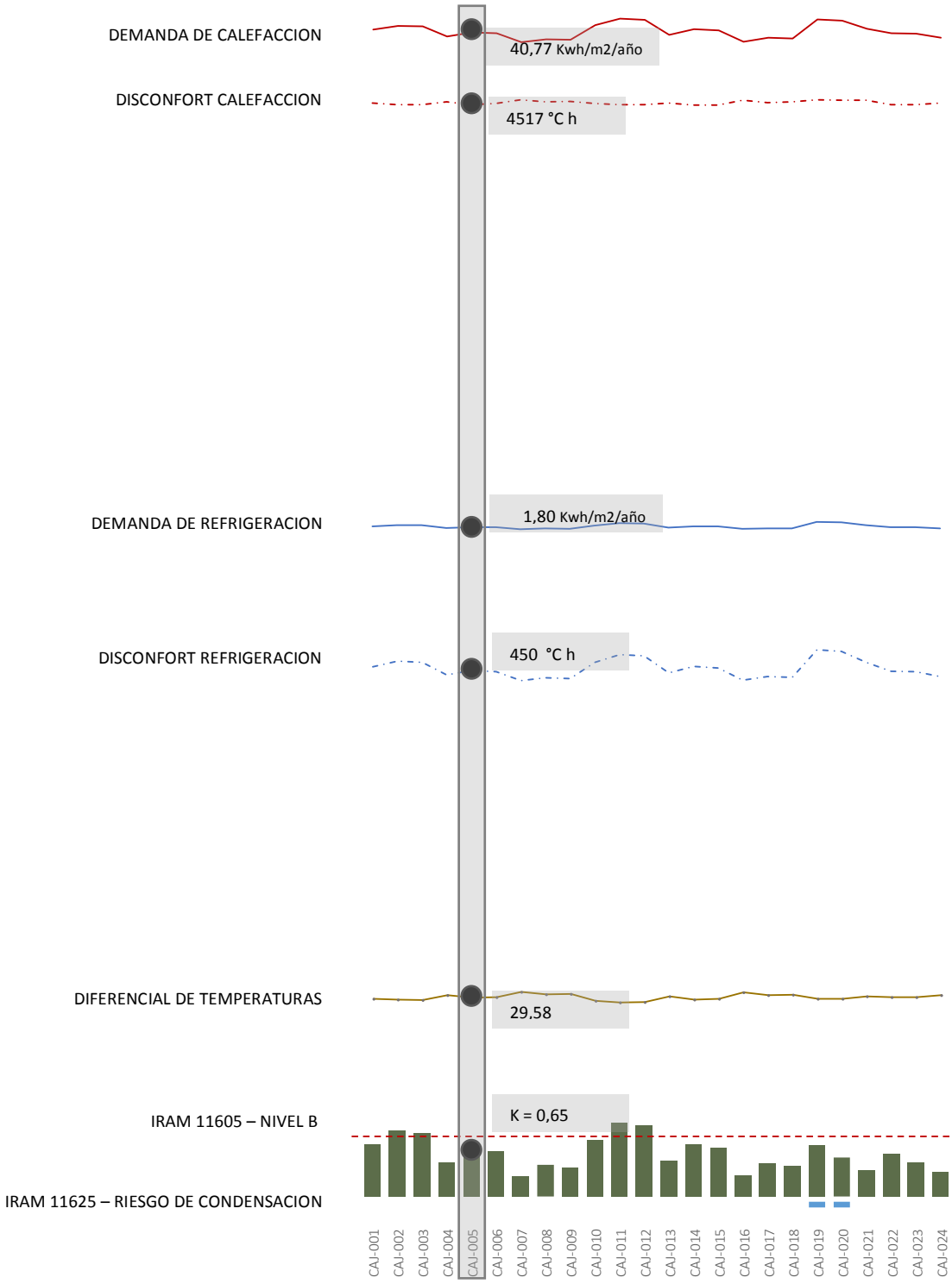



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **62,93** | kWh | 1,80 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.427,11** | kWh | 40,77 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.490,05** | kWh | **42,57** | kWh/m2/año |

| CAJ-005 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 078 | N° 076 | N° 035 | N° 023 | N° 010 | N° 022 |



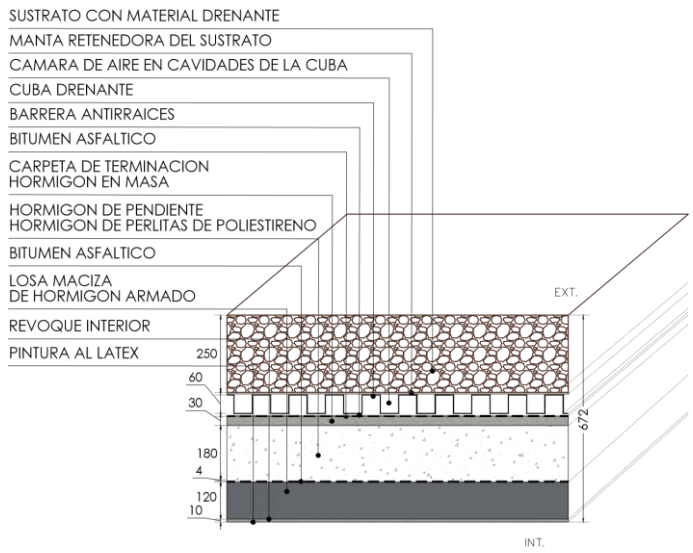

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,65 | 0% | 29,58 | 40,77 | 1,8 | 4517 | 450 |
| INC. FAMILIA | 110,87% | 0% | 99,71% | 99,17% | 92,25% | 99,55% | 94,90% |
| INC. MUNDIAL | 80,25% | 0% | 99,60% | 91,66% | 43,76% | 99,04% | 71,24% |

| CAJ-006 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 25CM- 100% HUMEDAD.

## INDICE DE TRANSMITANCIA TERMICA "K"

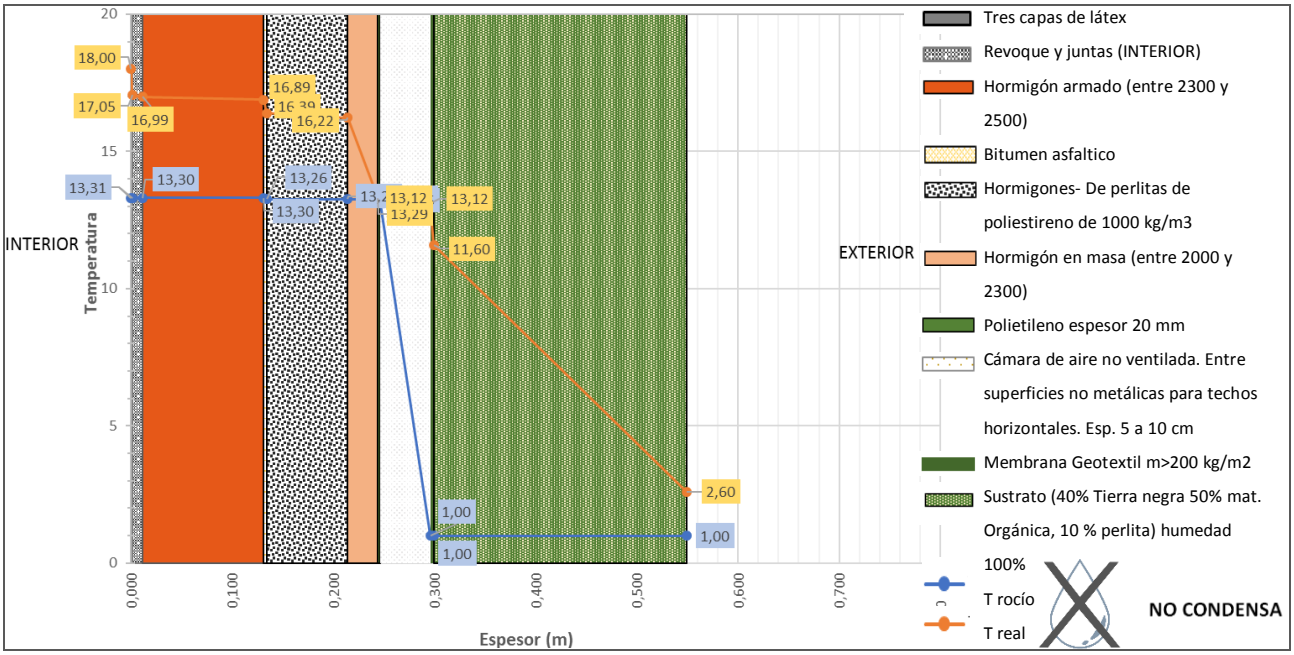
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,59 | 0,62 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



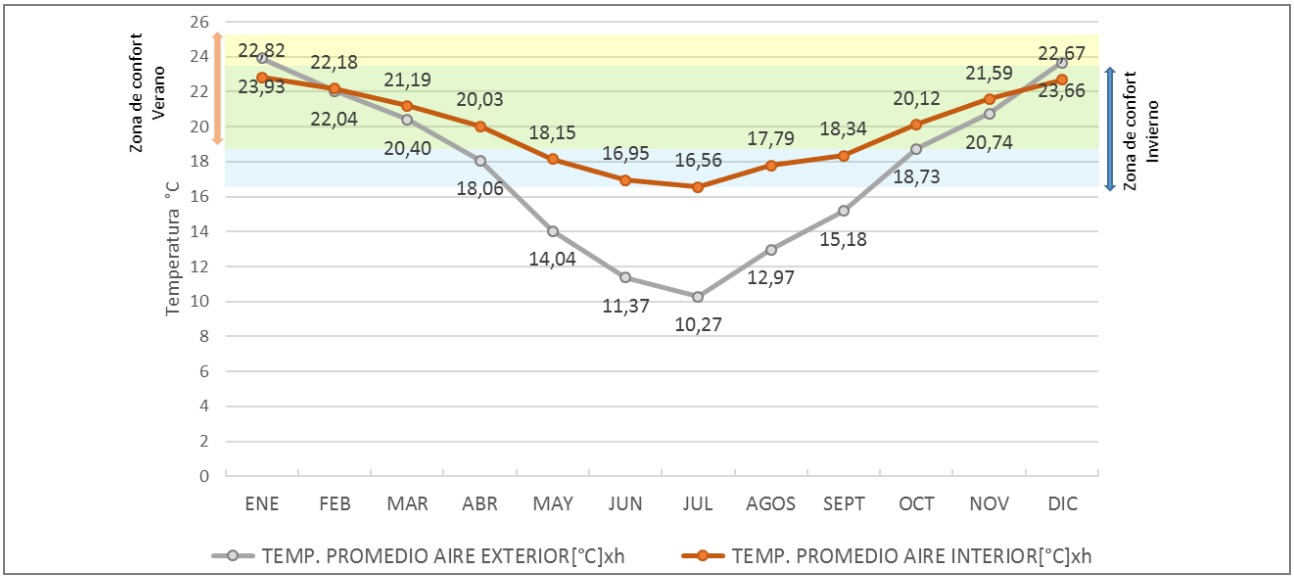

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 79,3 | 79,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **18,2** | **18,2** |
| | **Amortiguamiento:** | 0,001 | 0,001 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,0** | **16,7** |
| | **Amortiguamiento:** | 0,124 | 0,013 |

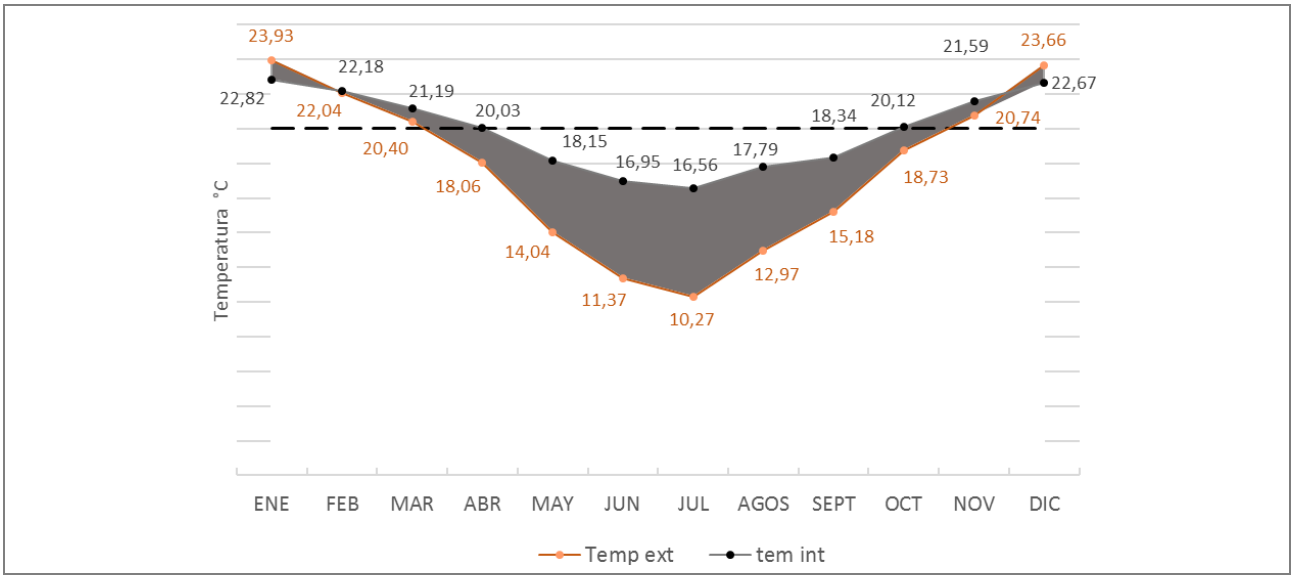
| CAJ-006 | CU | CUBIERTA AJARDINADA |
|---|---|---|

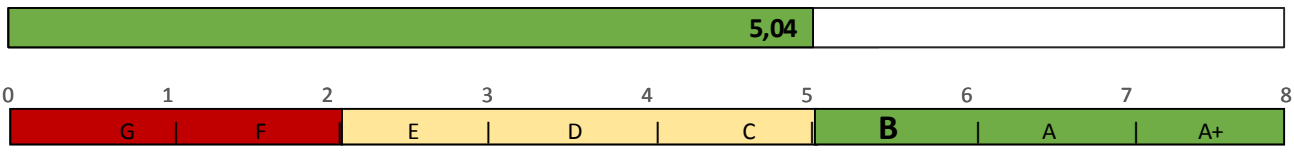
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,65** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,45** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



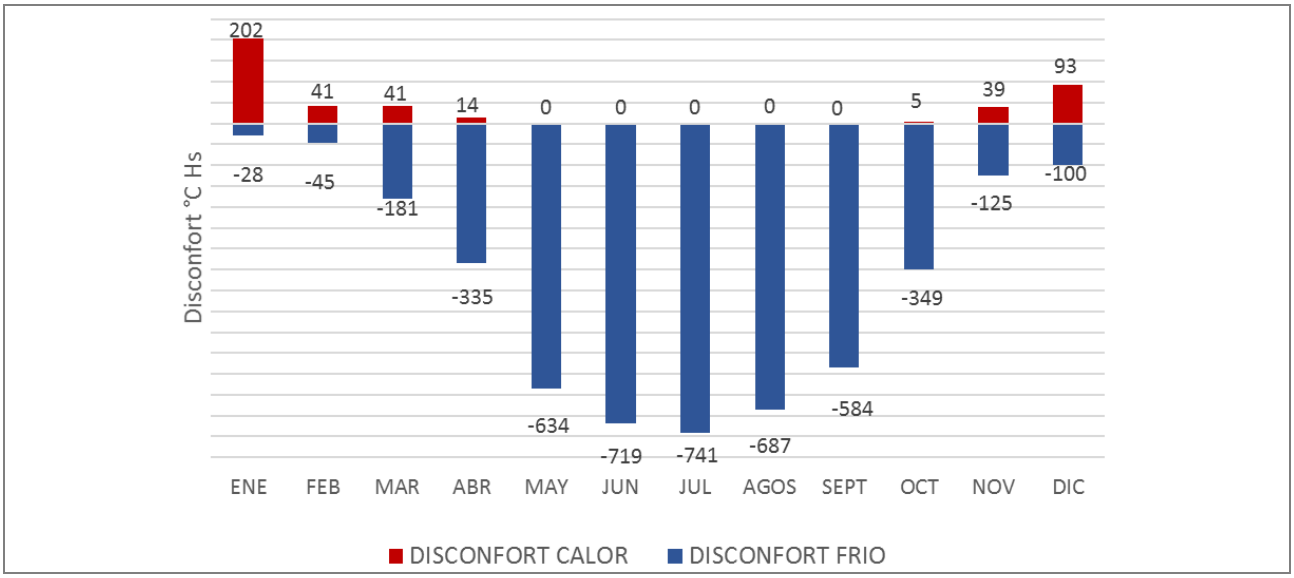




5,04 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| CAJ-006 | CU | CUBIERTA AJARDINADA |
|---|---|---|

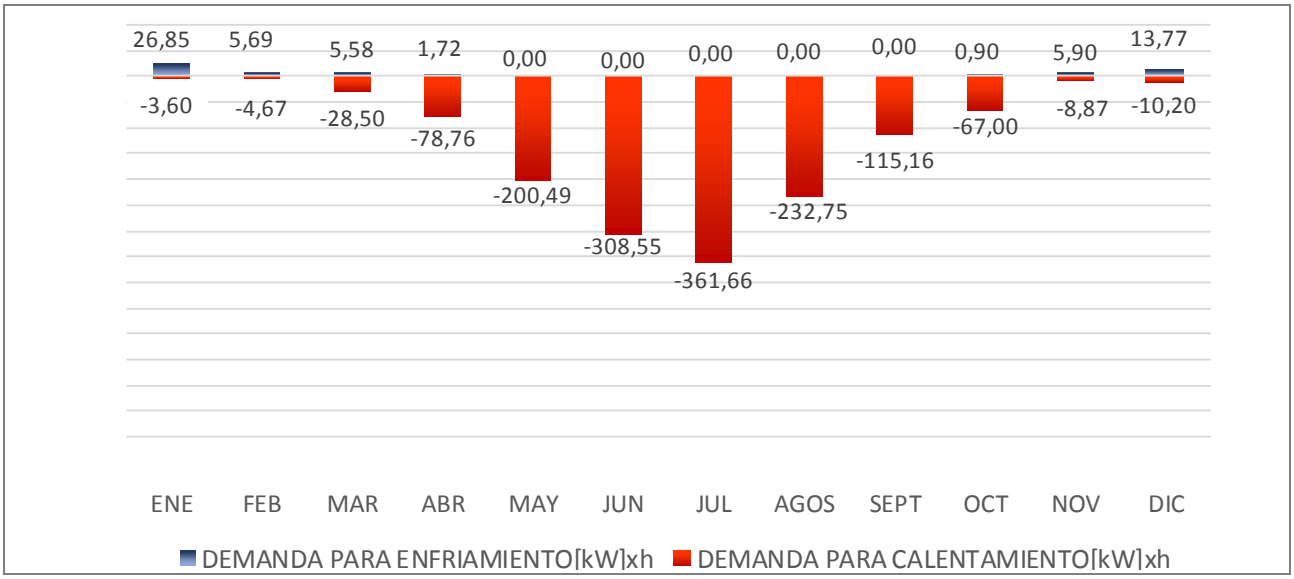
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **436** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.529** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.965** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

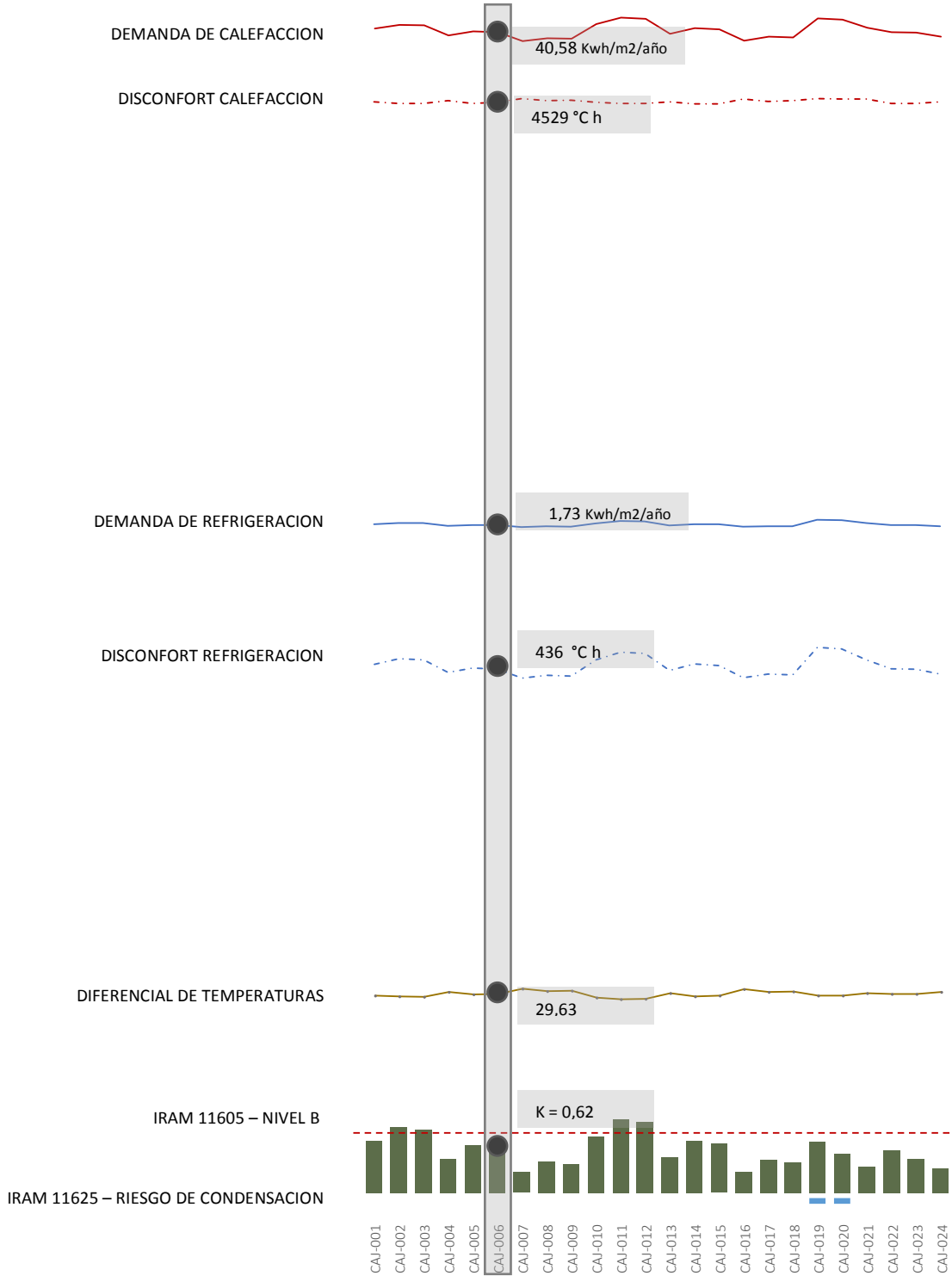



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **60,40** | kWh | 1,73 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.420,22** | kWh | 40,58 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.480,61** | kWh | **42,30** | kWh/m2/año |

| CAJ-006 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 076 | N° 071 | N° 032 | N° 019 | N° 014 | N° 016 |



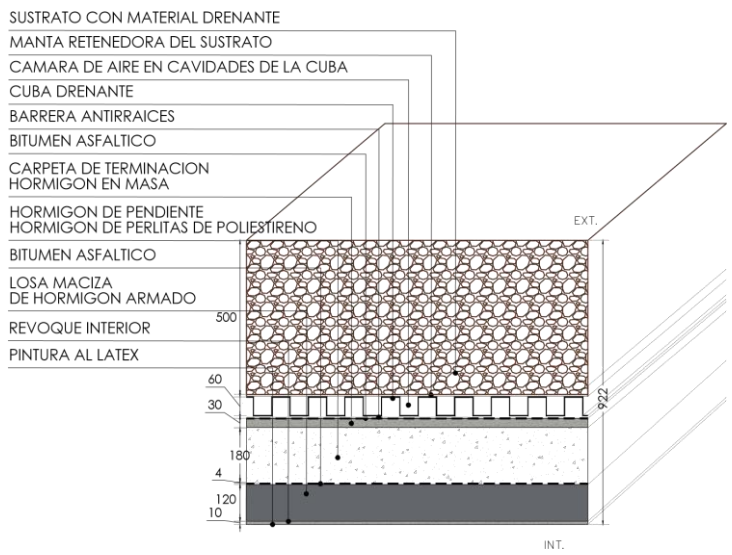

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,62 | 0% | 29,63 | 40,58 | 1,73 | 4529 | 436 |
| INC. FAMILIA | 105,76% | 0% | 99,88% | 98,70% | 88,66% | 99,82% | 91,94% |
| INC. MUNDIAL | 76,54% | 0% | 99,77% | 91,24% | 42,06% | 99,30% | 69,02% |

| CAJ-007 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 50CM- 0% HUMEDAD.

## INDICE DE TRANSMITANCIA TERMICA "K"

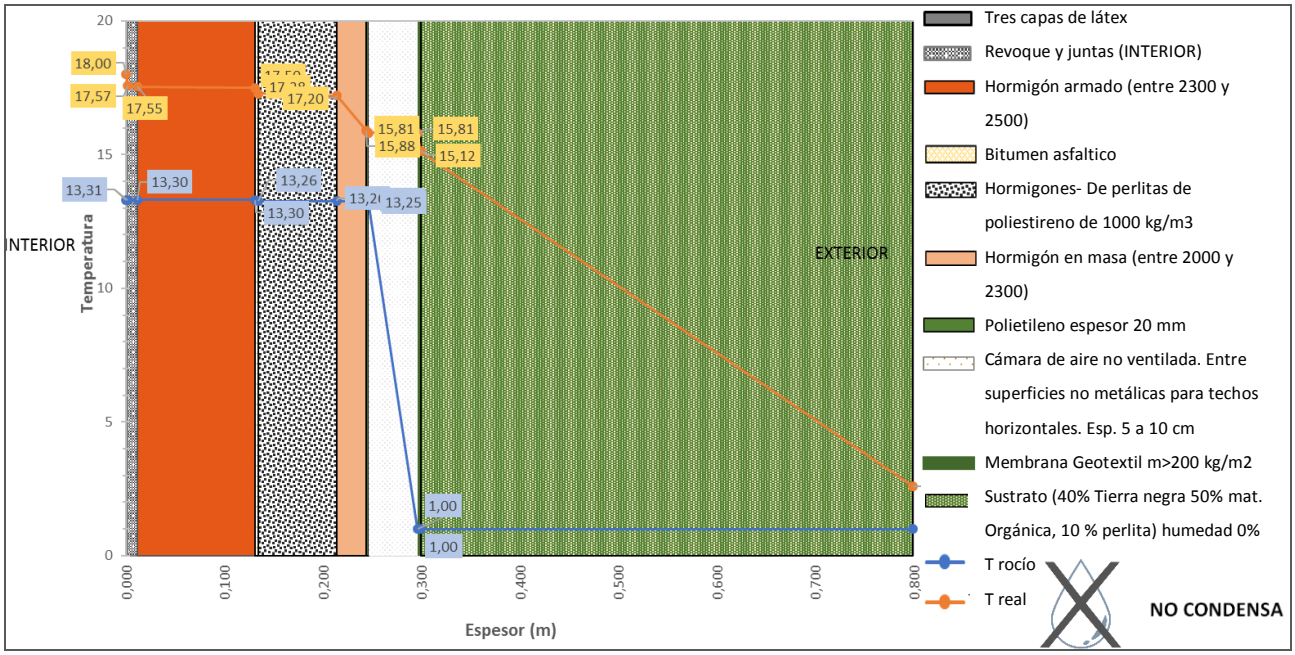
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,27 | 0,28 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



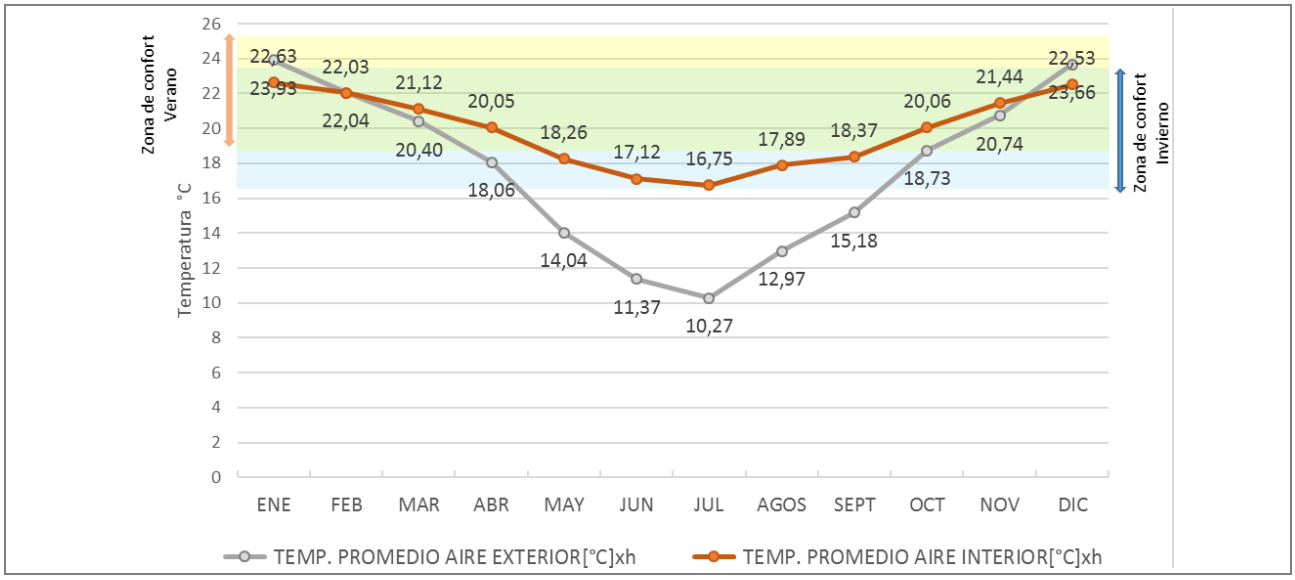

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 62,8 | 33,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **37,9** | **27,8** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **21,1** | **30,7** |
| | **Amortiguamiento:** | 0,004 | 0,000 |

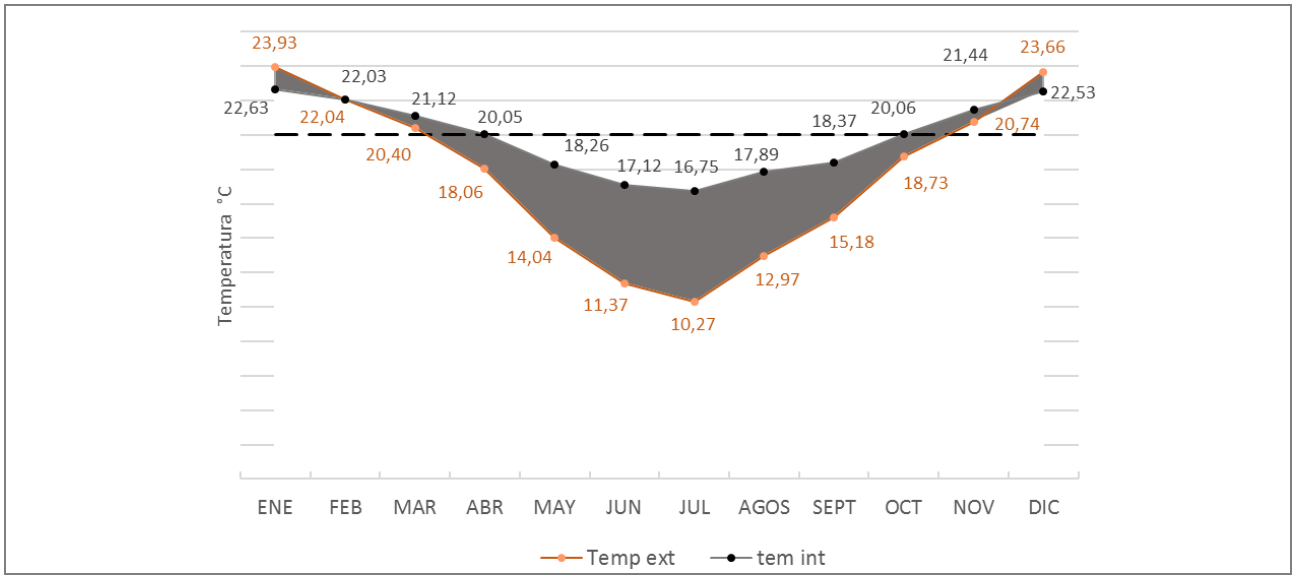
| CAJ-007 | CU | CUBIERTA AJARDINADA |
|---|---|---|

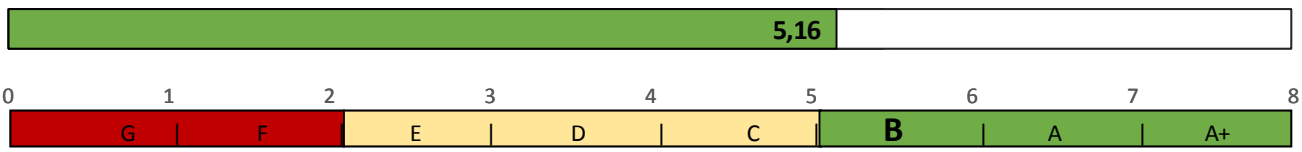
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,20** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,77** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



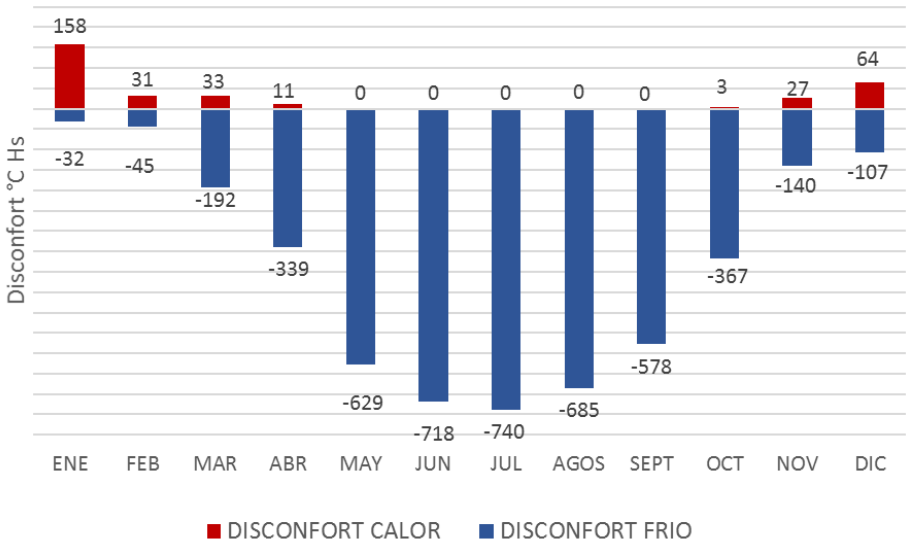




5,16 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| CAJ-007 | CU | CUBIERTA AJARDINADA |
|---|---|---|

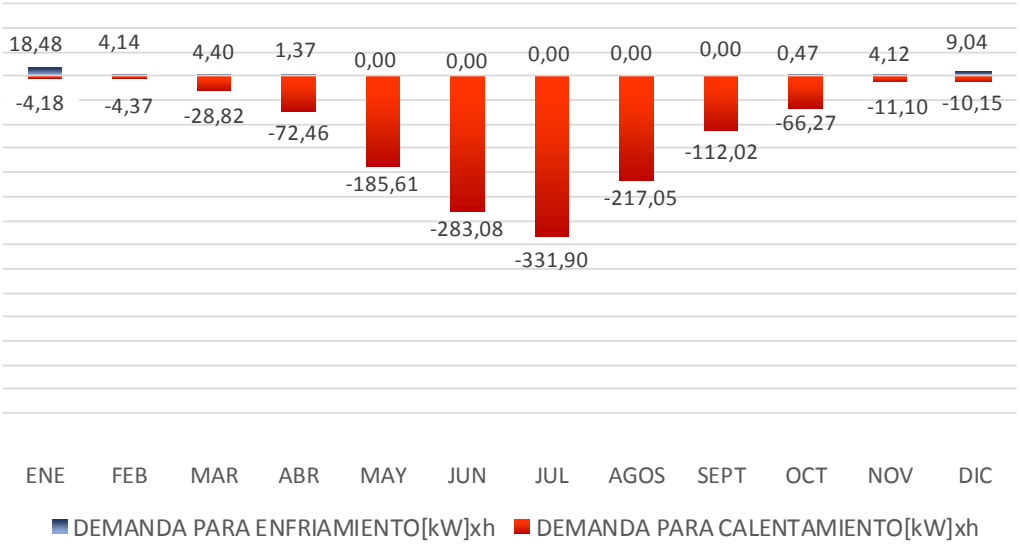
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **328** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.570** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.898** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

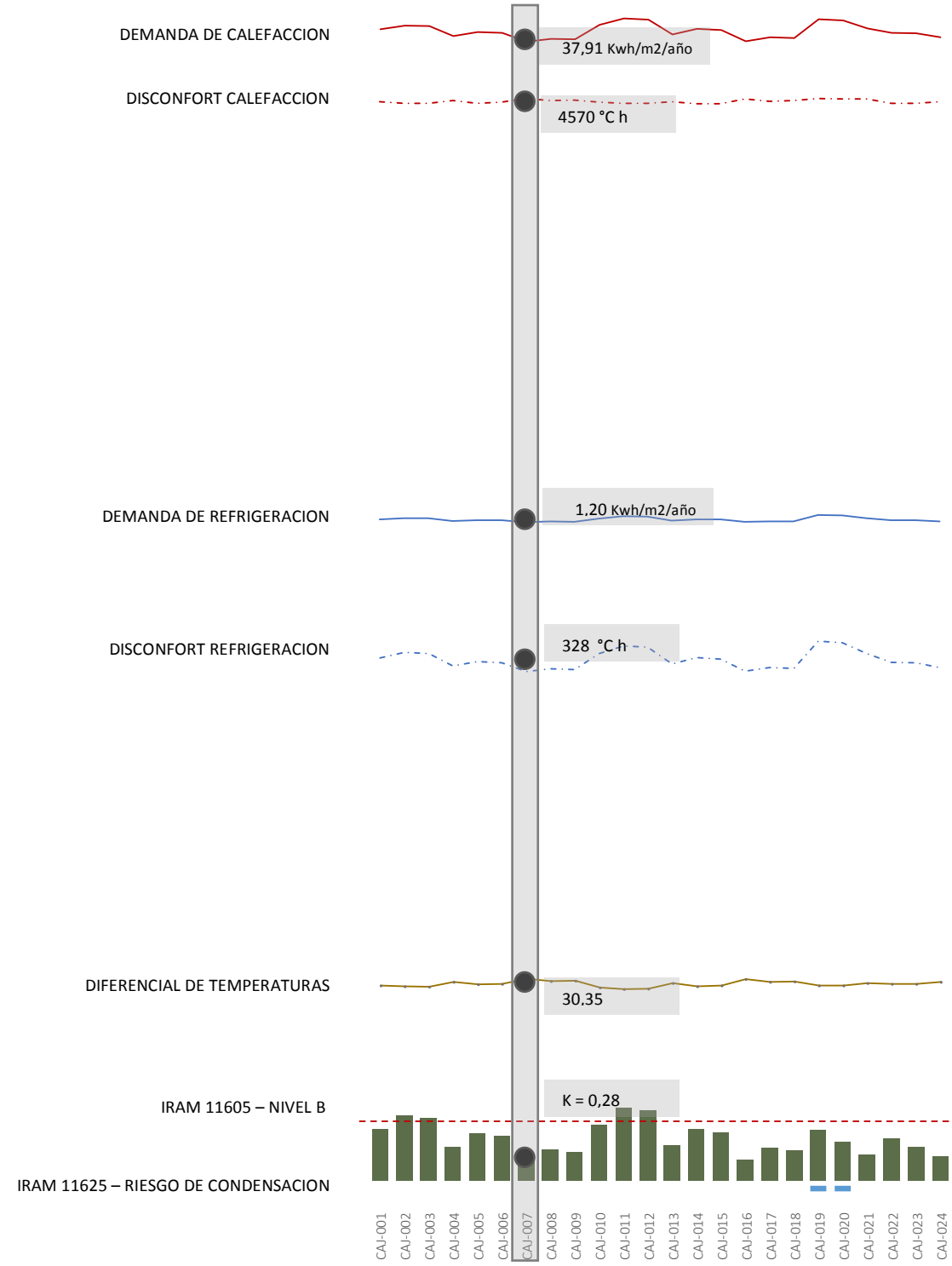



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,02** | kWh | 1,20 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.327,01** | kWh | 37,91 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.369,03** | kWh | **39,12** | kWh/m2/año |

| CAJ-007 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 007 | N° 010 | N° 004 | N° 003 | N° 060 | N° 003 |



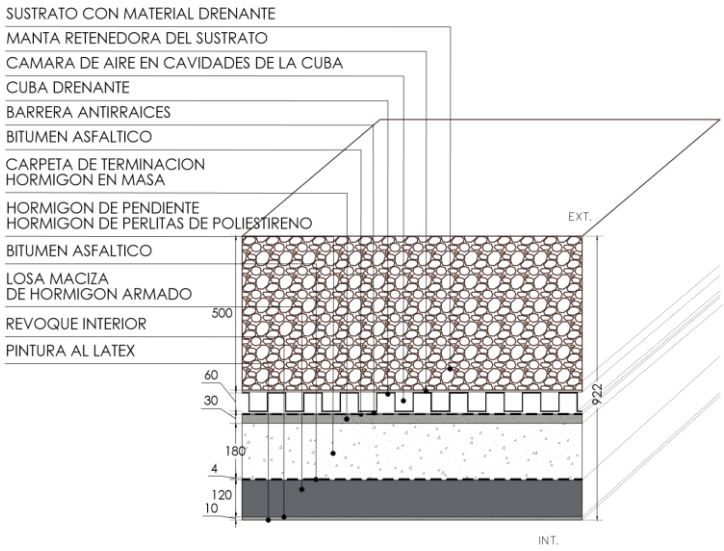

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,28 | 0% | 30,35 | 37,91 | 1,2 | 4570 | 328 |
| INC. FAMILIA | 47,76% | 0% | 102,31% | 92,21% | 61,50% | 100,72% | 69,17% |
| INC. MUNDIAL | 34,57% | 0% | 102,19% | 85,23% | 29,17% | 100,20% | 51,93% |

| CAJ-008 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 50CM- 50% HUMEDAD.

## INDICE DE TRANSMITANCIA TERMICA "K"

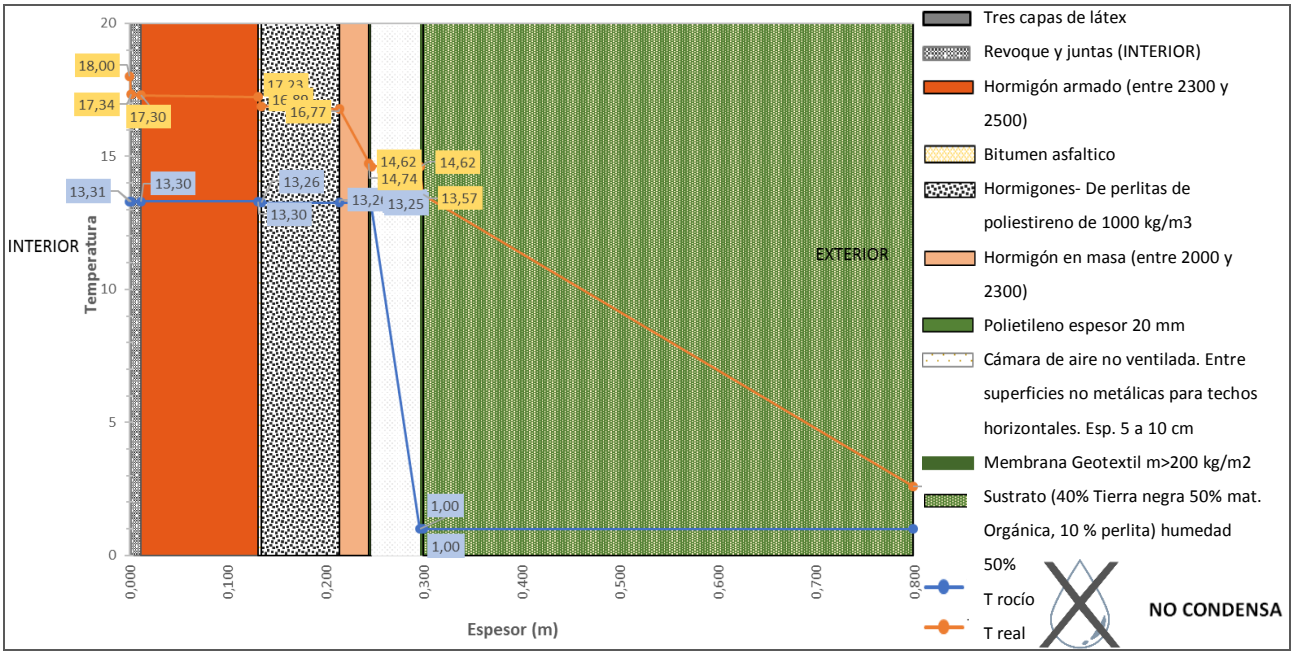
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,42 | 0,43 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



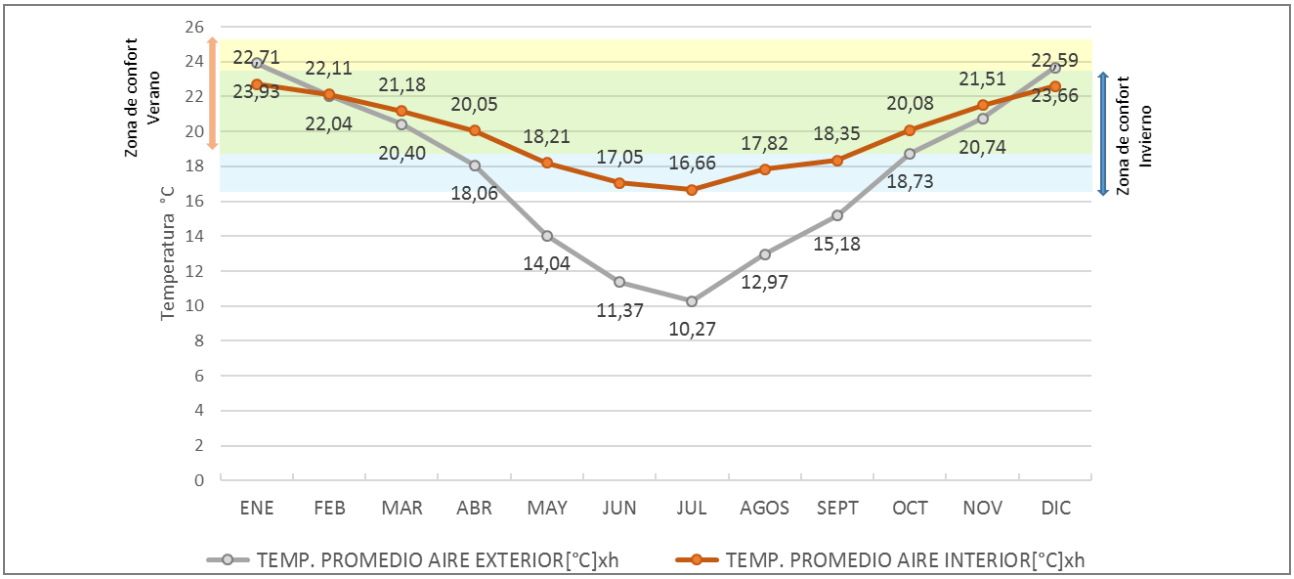

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 124,3 | 53,4 |
| (s/ Método MacKey y Wright) | Retardo Térmico: horas | 33,9 | 22,2 |
| | Amortiguamiento: | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | Retardo Térmico: horas | 22,1 | 25,6 |
| | Amortiguamiento: | 0,003 | 0,001 |

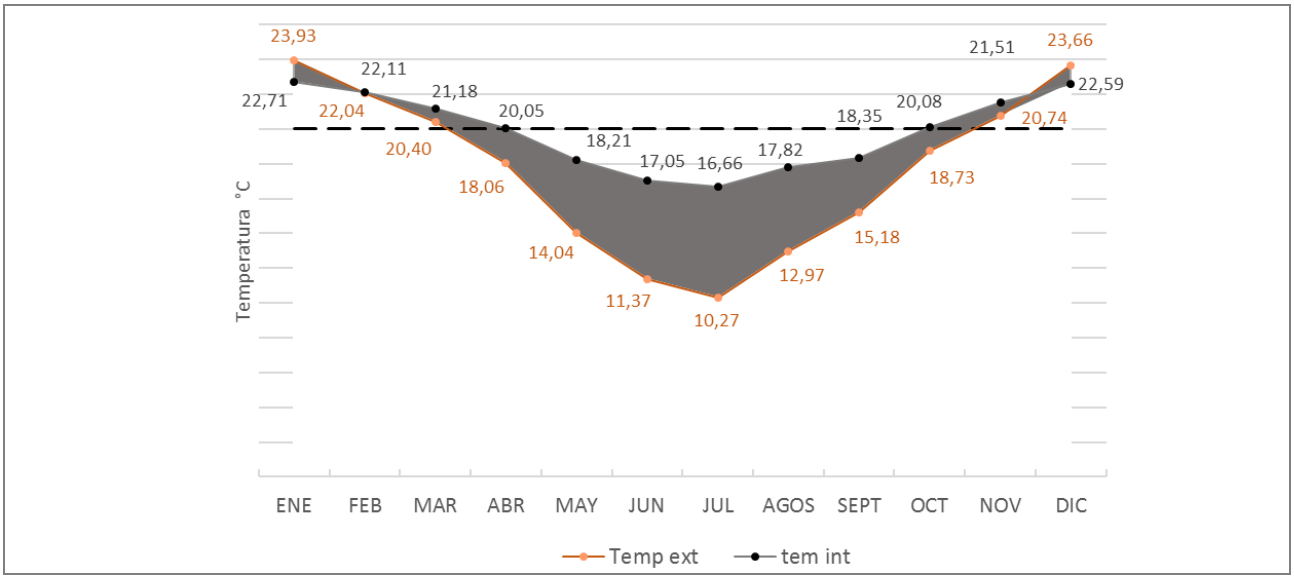
| CAJ-008 | CU | CUBIERTA AJARDINADA |
|---|---|---|

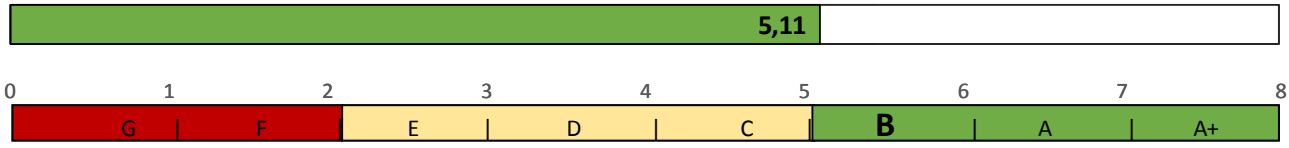
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,23** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,69** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



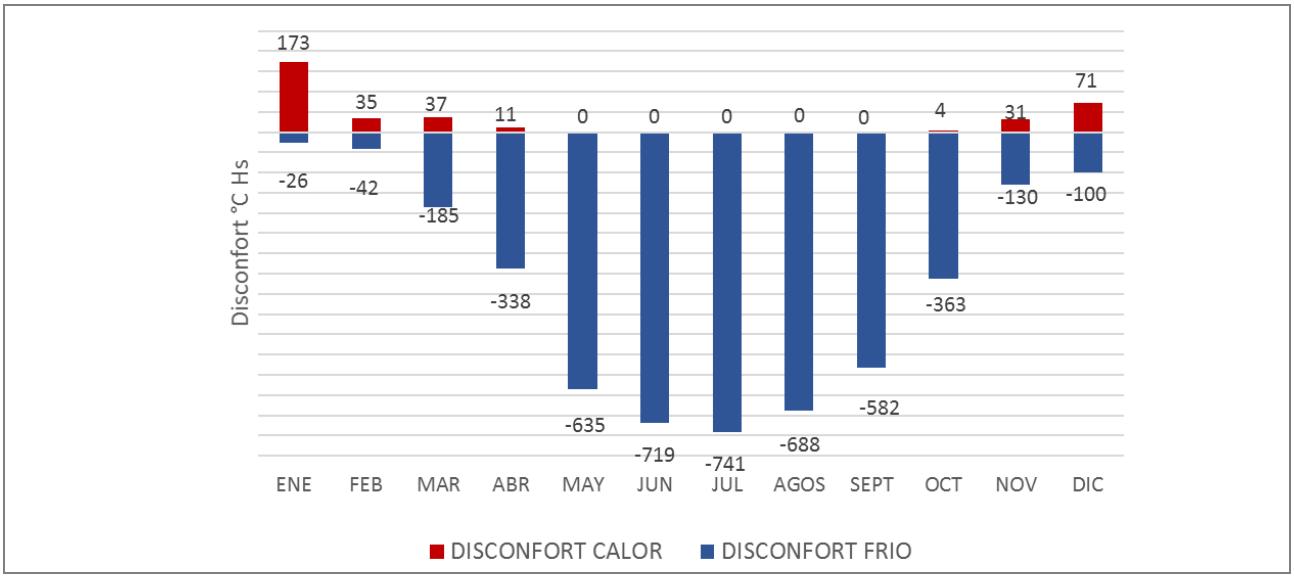




5,11 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| CAJ-008 | CU | CUBIERTA AJARDINADA |
|---|---|---|

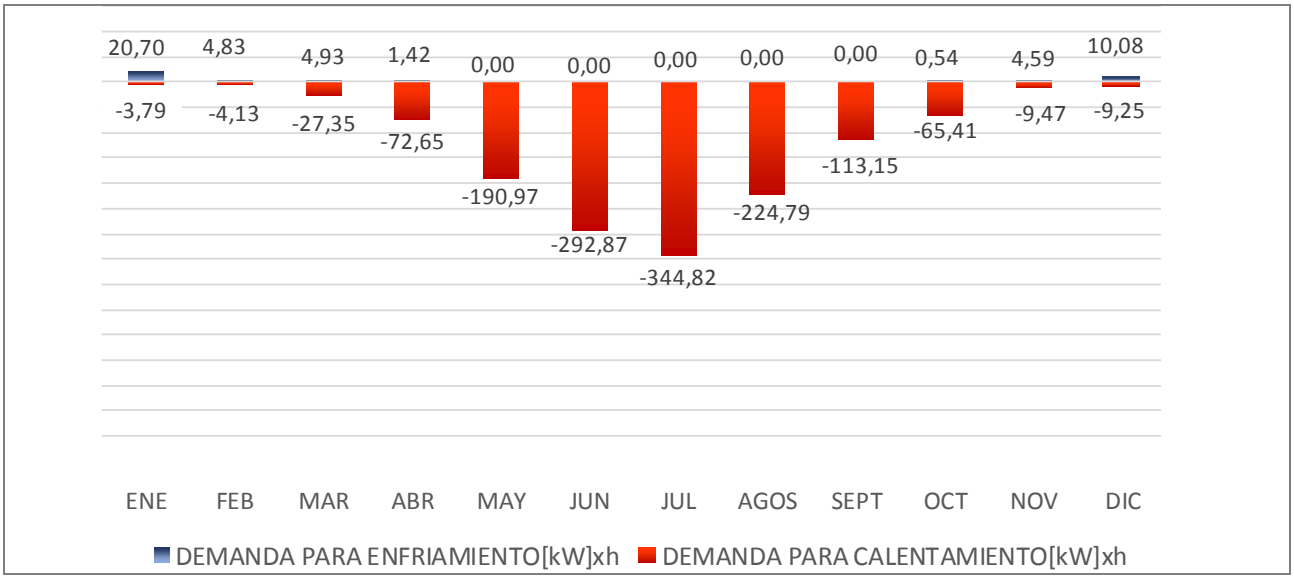
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **362** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.548** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.911** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

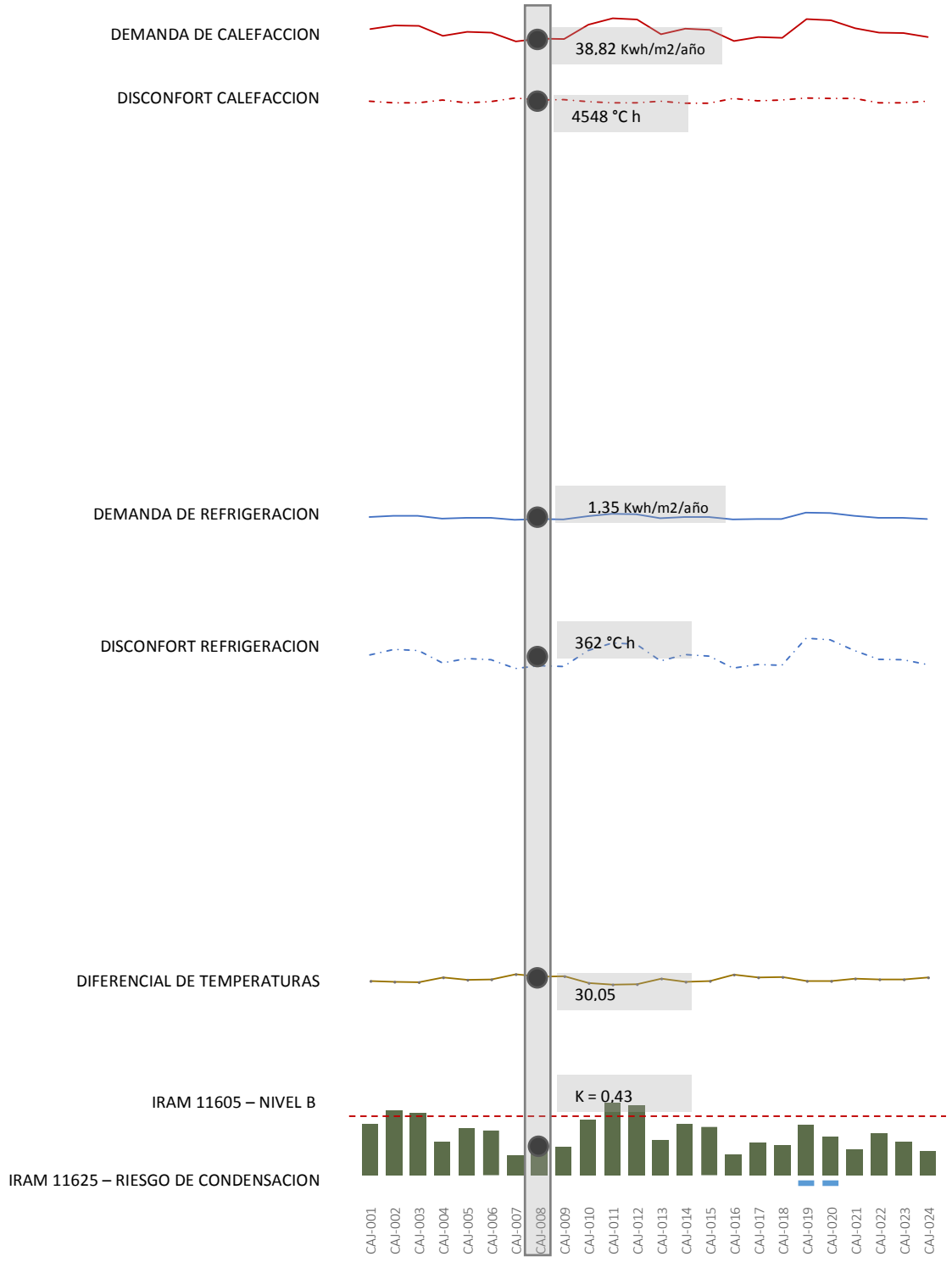



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **47,10** | kWh | 1,35 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.358,66** | kWh | 38,82 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.405,75** | kWh | **40,16** | kWh/m2/año |

| CAJ-008 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 047 | N° 038 | N° 008 | N° 007 | N° 035 | N° 007 |



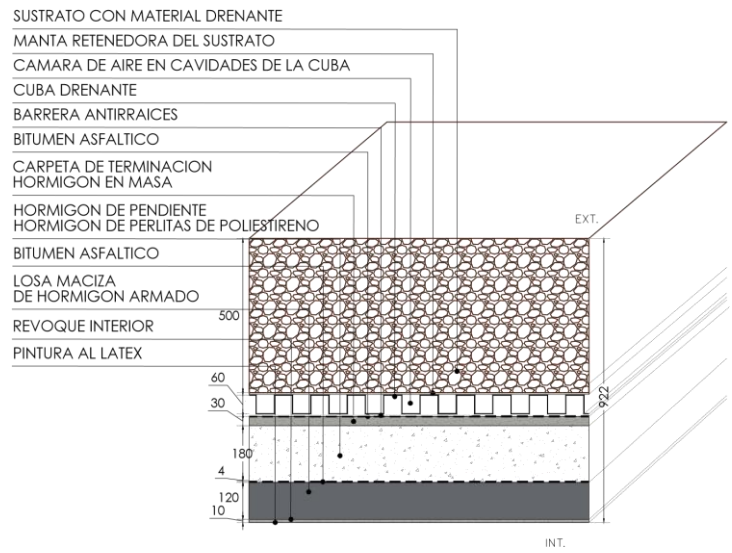

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,43 | 0% | 30,05 | 38,82 | 1,35 | 4548 | 362 |
| INC. FAMILIA | 73,35% | 0% | 101,29% | 94,42% | 69,19% | 100,24% | 76,34% |
| INC. MUNDIAL | 53,09% | 0% | 101,18% | 87,28% | 32,82% | 99,72% | 57,31% |

| CAJ-009 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA PLANA SOBRE LOSA DE Hº Aº CON ELEMENTO DRENANTE ESPESOR 50CM- 100% HUMEDAD.

## INDICE DE TRANSMITANCIA TERMICA "K"

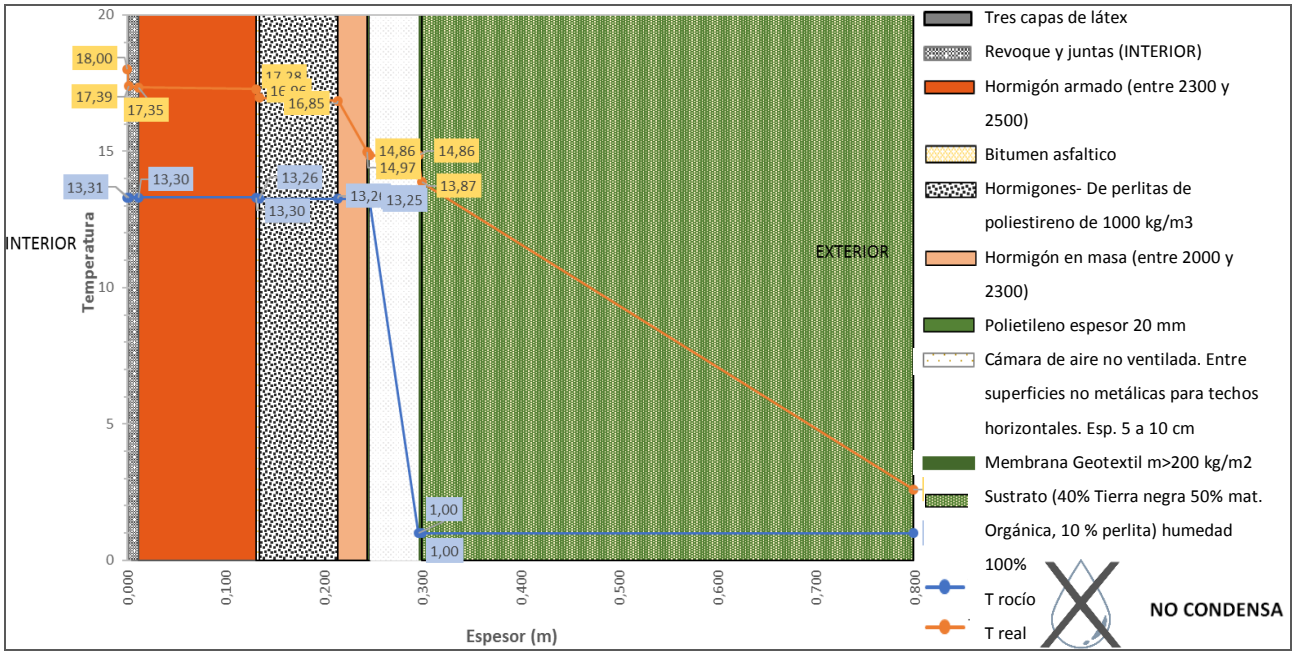
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,39 | 0,40 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



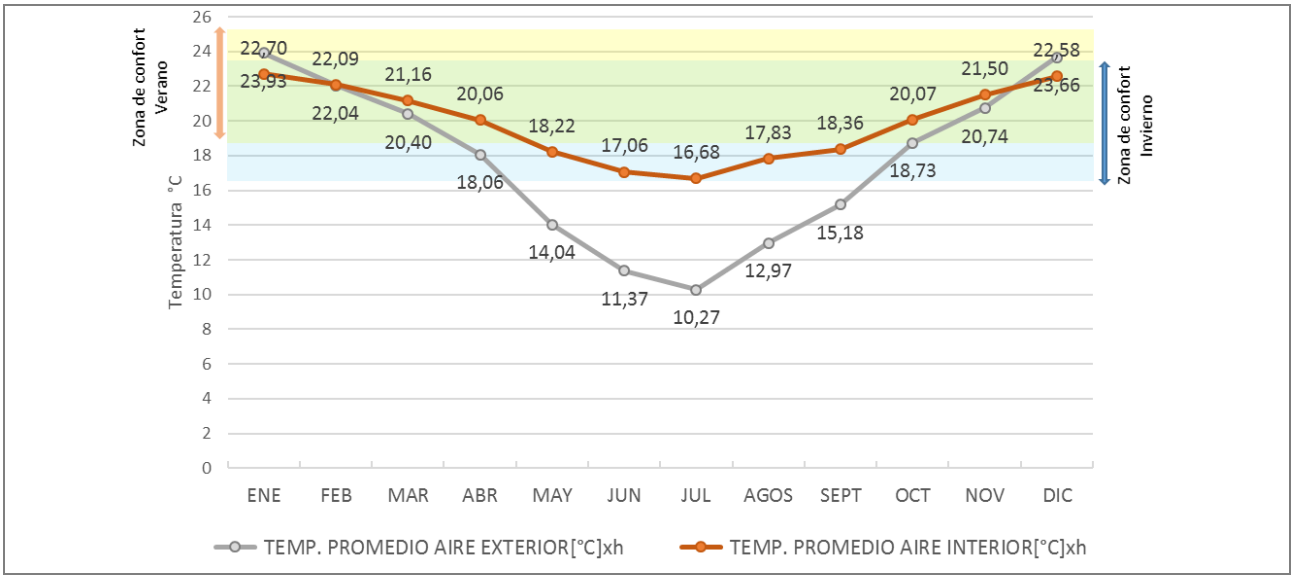

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 49,5 | 49,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **23,0** | **23,0** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,0** | **21,5** |
| | **Amortiguamiento:** | 0,124 | 0,004 |

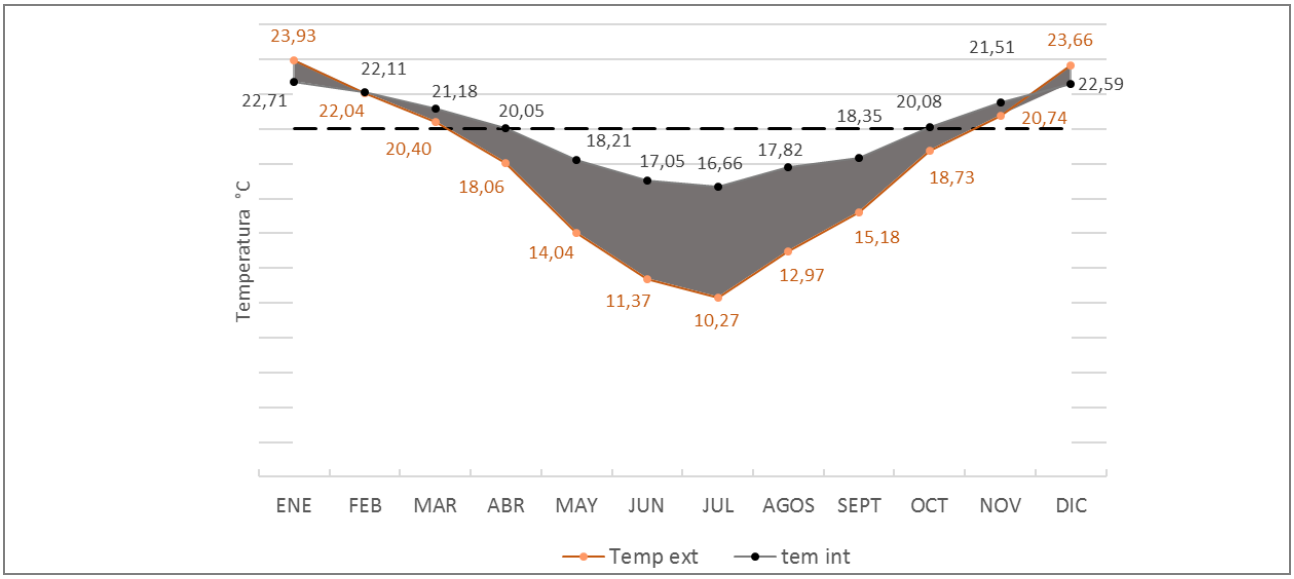
| CAJ-009 | CU | CUBIERTA AJARDINADA |
|---|---|---|

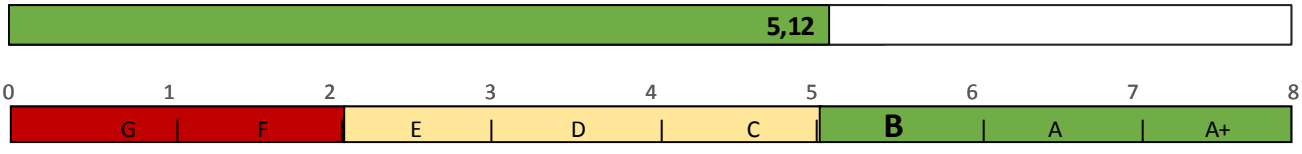
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,24** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,71** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



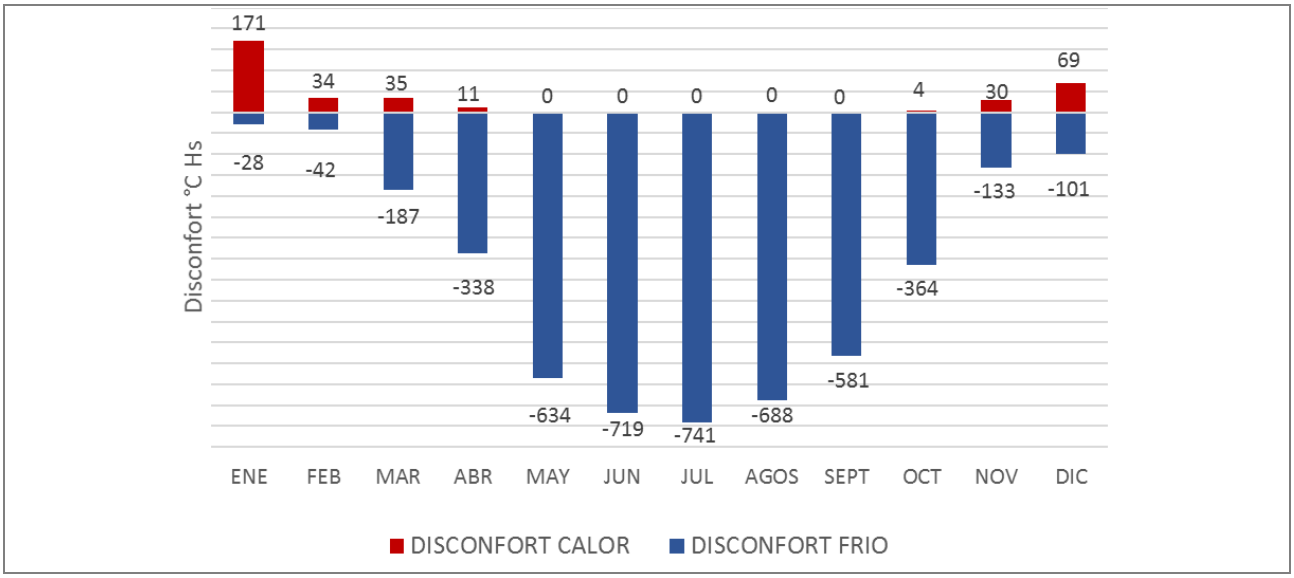




5,12 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| CAJ-009 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

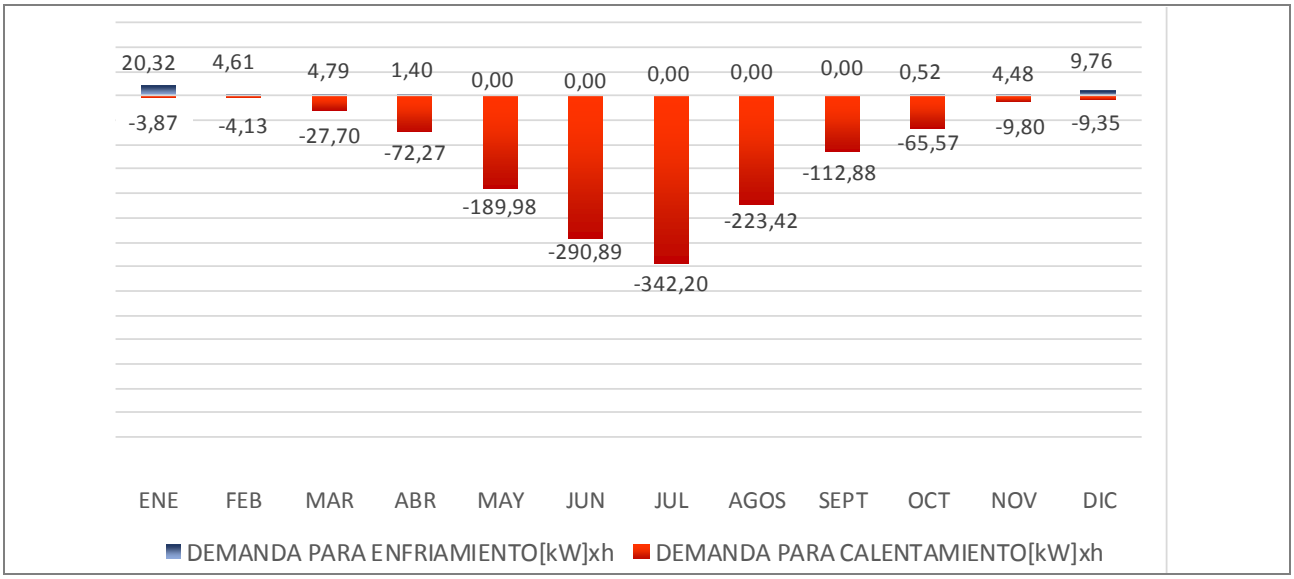
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **353** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.555** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.909** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

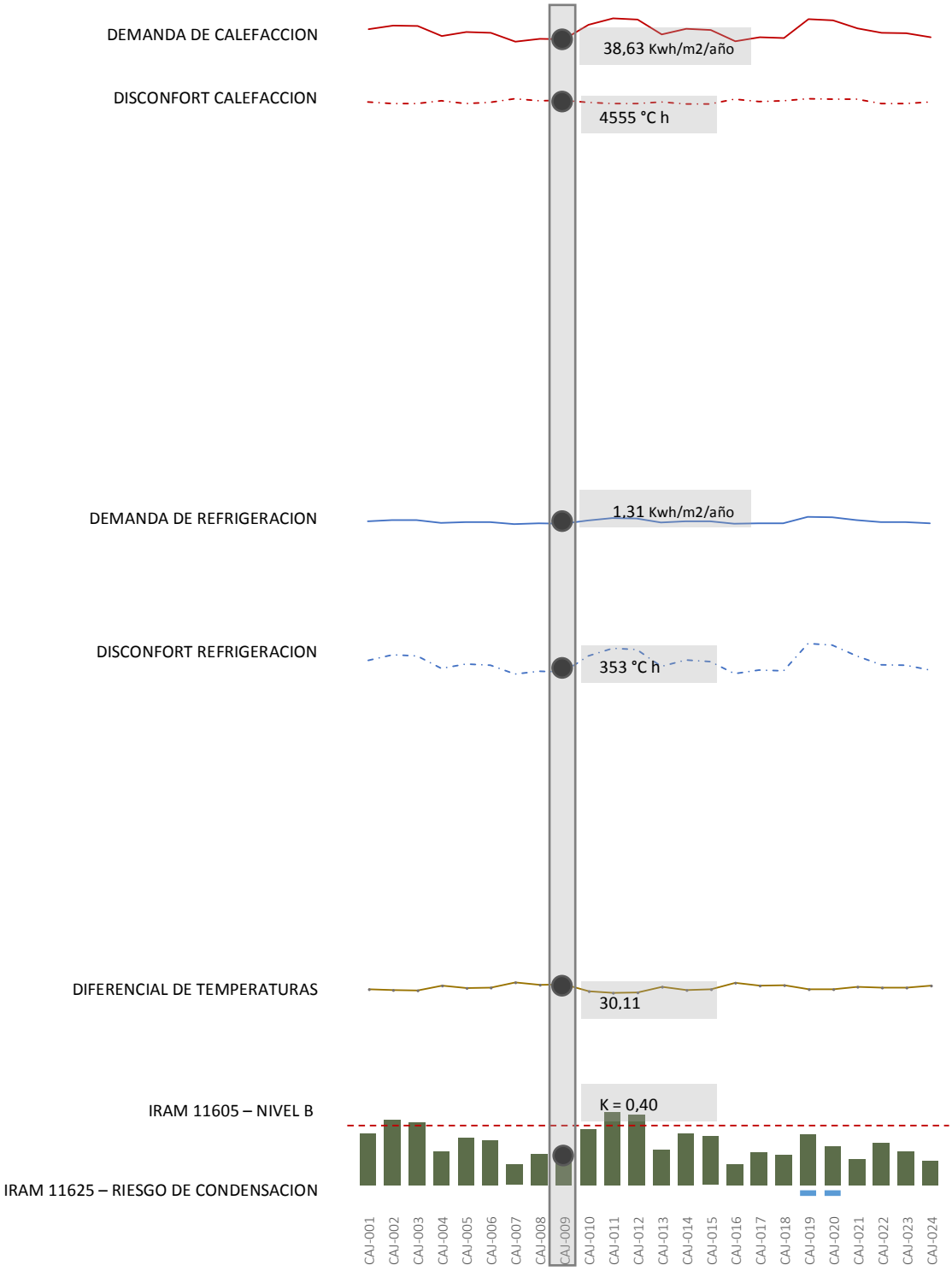



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **45,88** | kWh | 1,31 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.352,05** | kWh | 38,63 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.397,93** | kWh | **39,94** | kWh/m2/año |

| CAJ-009 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 043 | N° 035 | N° 007 | N° 006 | N° 041 | N° 006 |



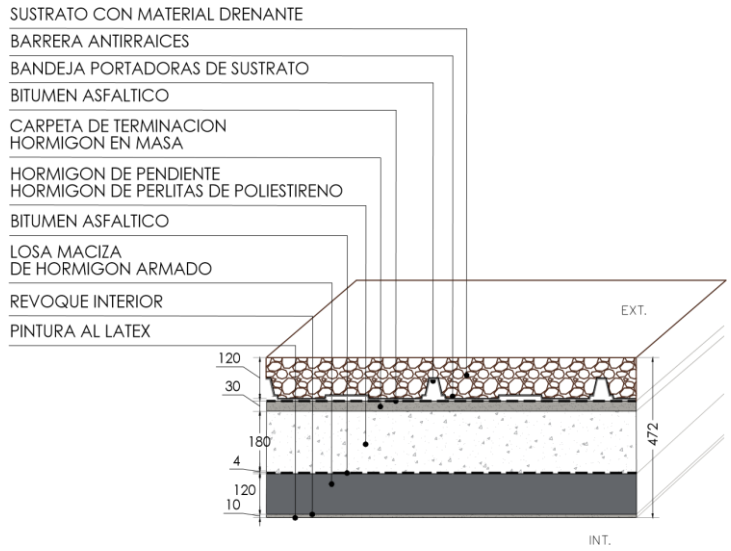

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,4 | 0% | 30,11 | 38,63 | 1,31 | 4555 | 353 |
| INC. FAMILIA | 68,23% | 0% | 101,50% | 93,96% | 67,14% | 100,39% | 74,44% |
| INC. MUNDIAL | 49,38% | 0% | 101,38% | 86,85% | 31,85% | 99,87% | 55,88% |

| CAJ-010 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA CON BANDEJAS SUSTRATO 12 CM HUMEDAD 0%.

## INDICE DE TRANSMITANCIA TERMICA "K"

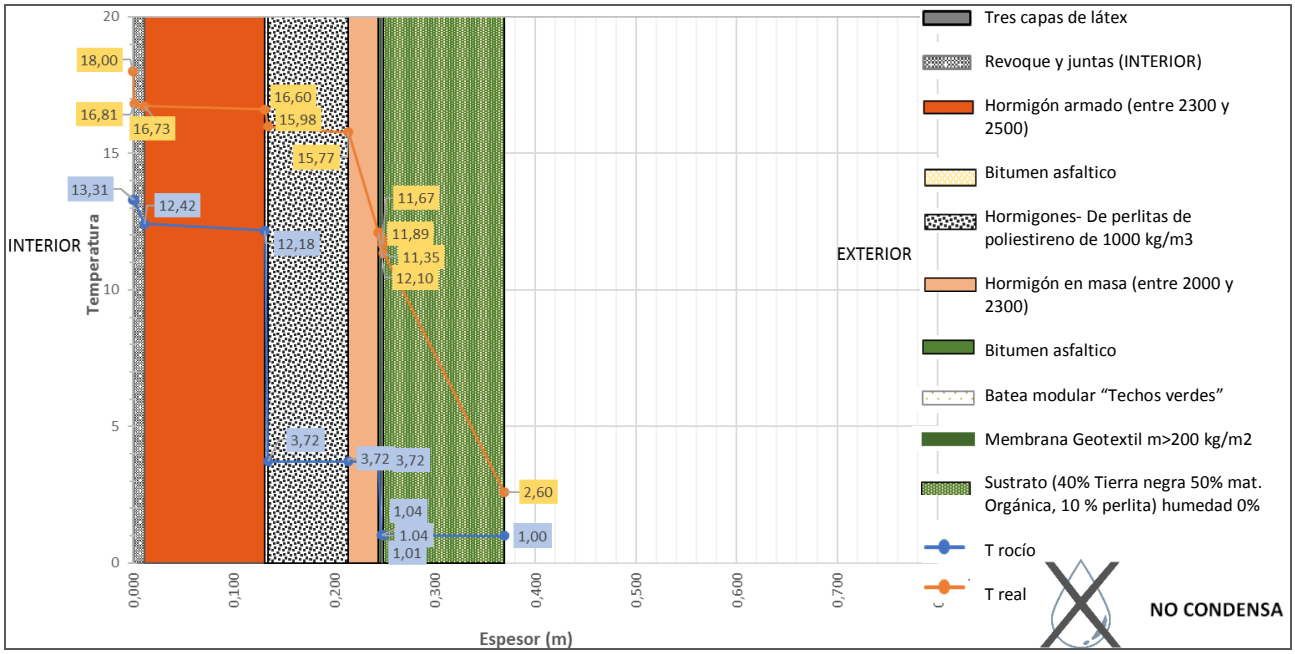
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,73 | 0,77 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



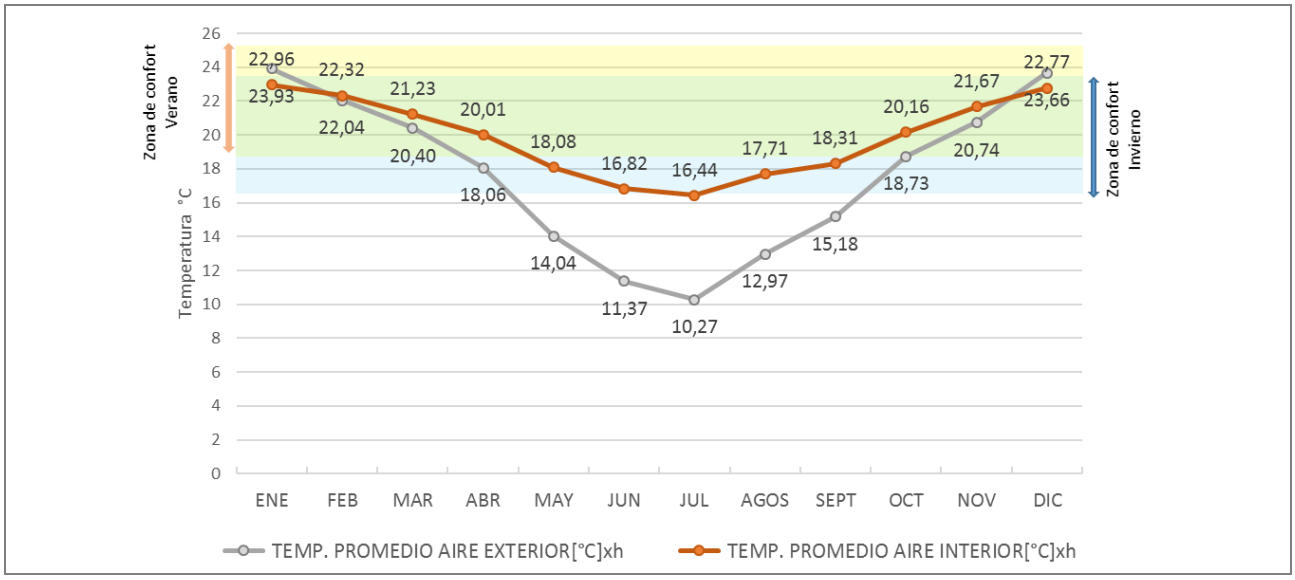

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 123,7 | 102,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **17,7** | **16,1** |
| | **Amortiguamiento:** | 0,001 | 0,003 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,3** | **15,2** |
| | **Amortiguamiento:** | 0,068 | 0,019 |

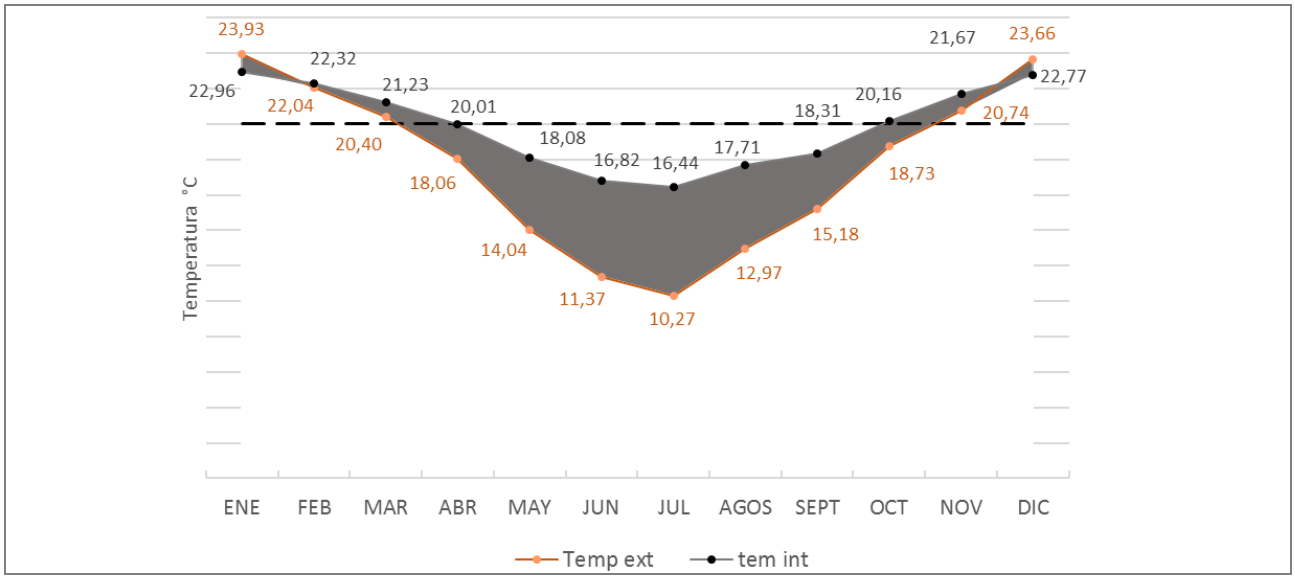
| CAJ-010 | CU | CUBIERTA AJARDINADA |
|---|---|---|

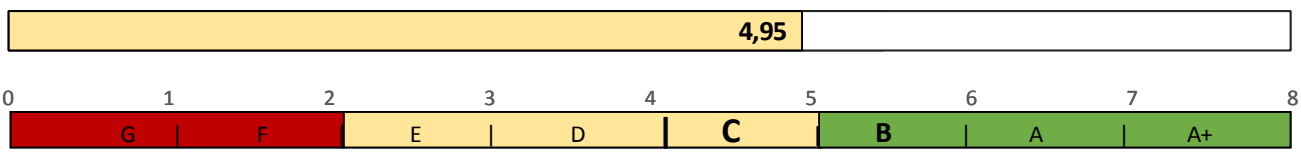
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,96** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,18** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



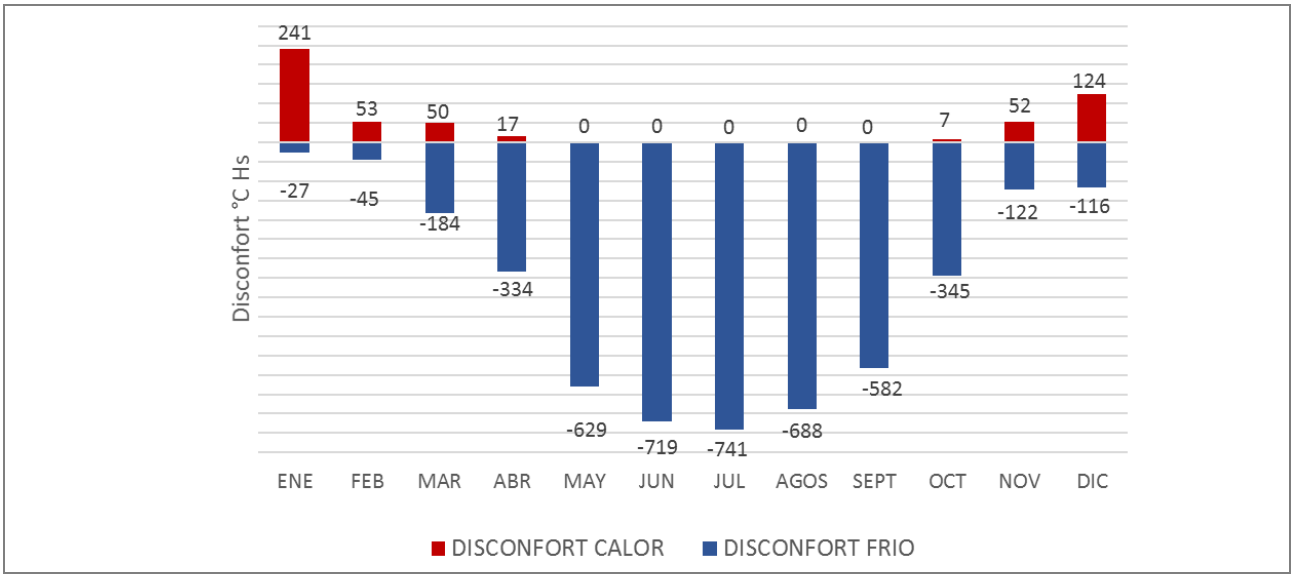




4,95 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| CAJ-010 | CU | CUBIERTA AJARDINADA |
|---|---|---|

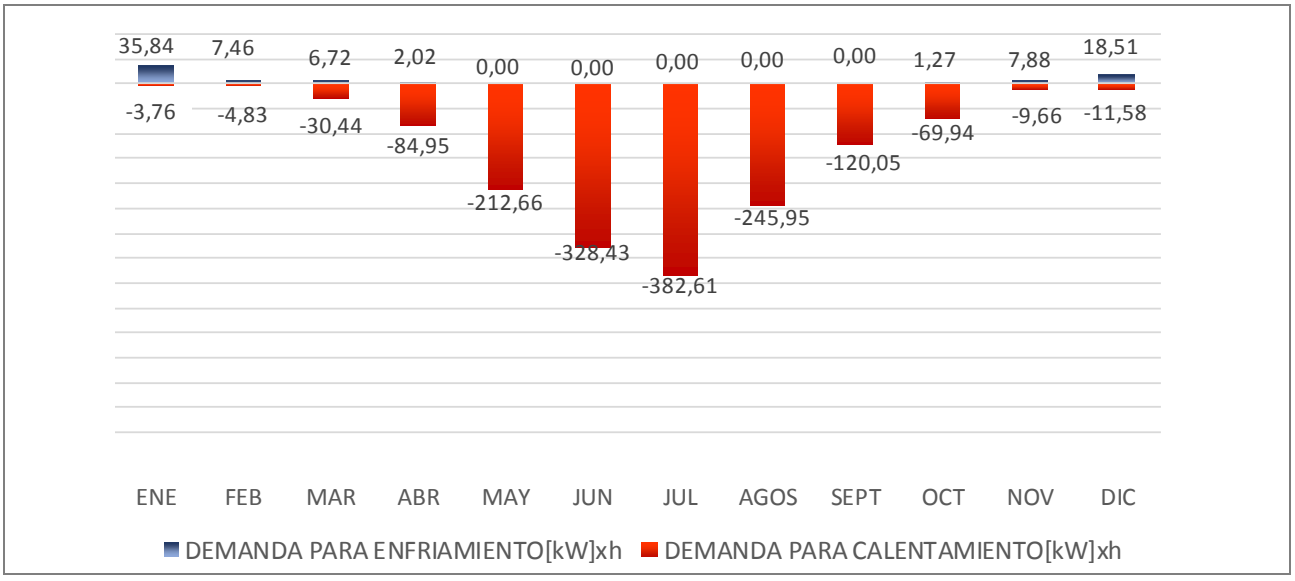
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **545** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.532** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.077** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

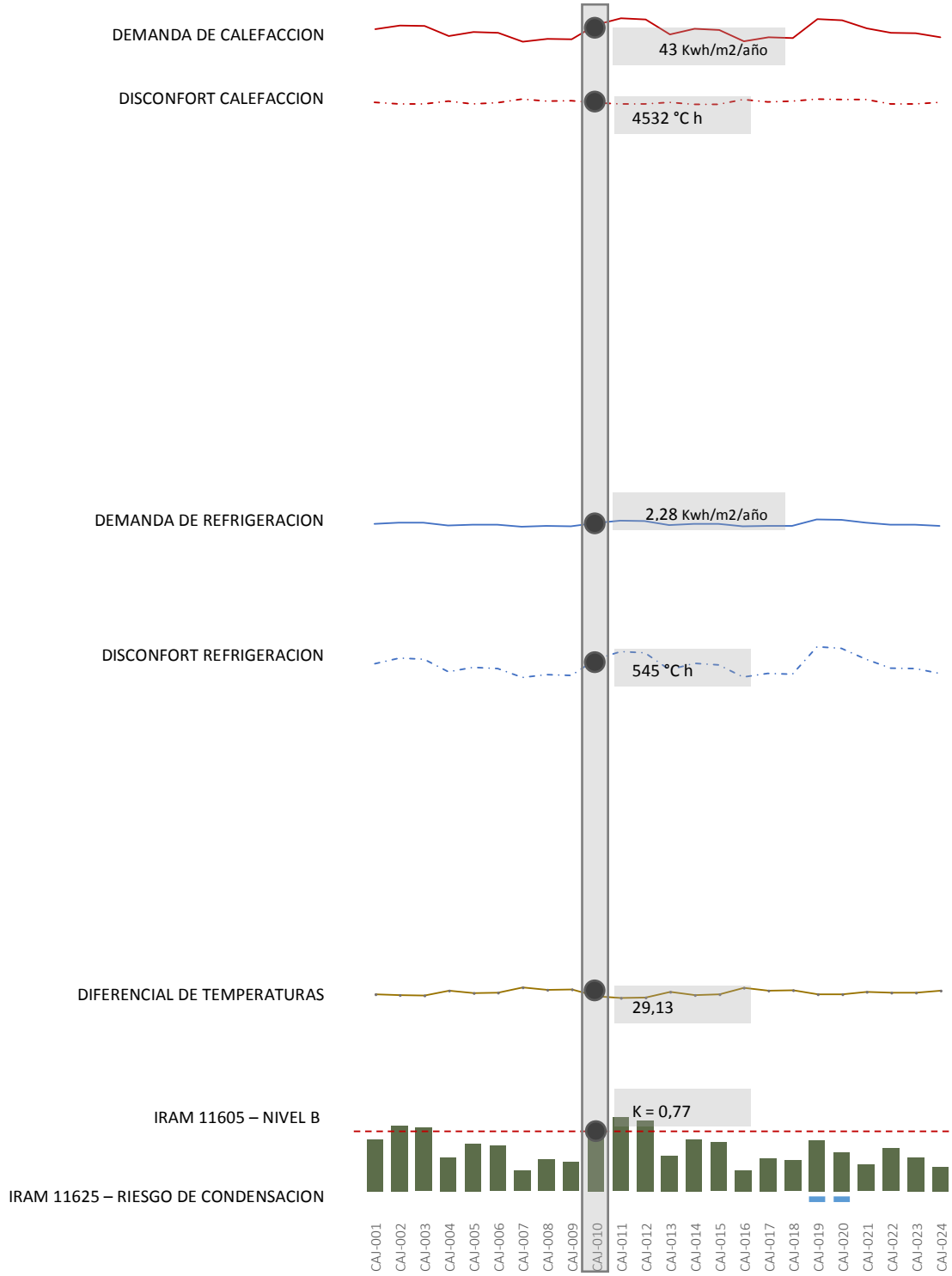



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **79,71** | kWh | 2,28 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.504,87** | kWh | 43,00 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.584,58** | kWh | **45,27** | kWh/m2/año |

| CAJ-010 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 087 | N° 092 | N° 067 | N° 049 | N° 015 | N° 049 |



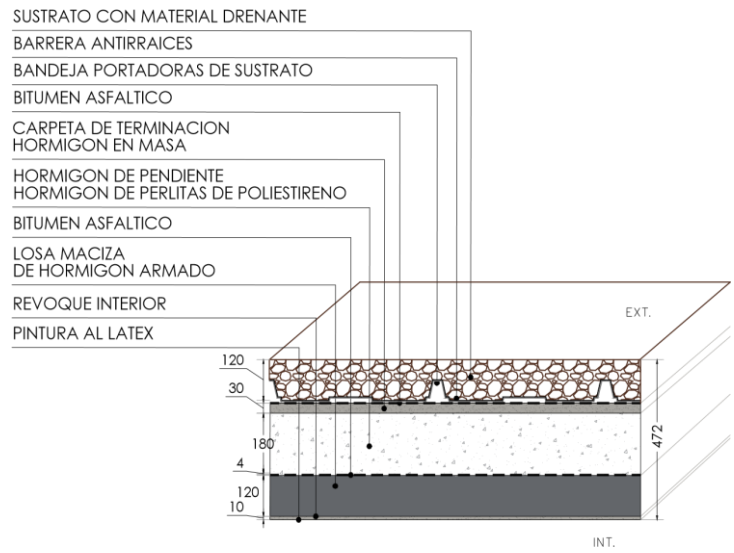

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,77 | 0% | 29,13 | 43 | 2,28 | 4532 | 545 |
| INC. FAMILIA | 131,34% | 0% | 98,19% | 104,59% | 116,85% | 99,88% | 114,93% |
| INC. MUNDIAL | 95,06% | 0% | 98,08% | 96,68% | 55,43% | 99,37% | 86,28% |

| CAJ-011 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA CON BANDEJAS SUSTRATO 12 CM HUMEDAD 50%.

## INDICE DE TRANSMITANCIA TERMICA "K"

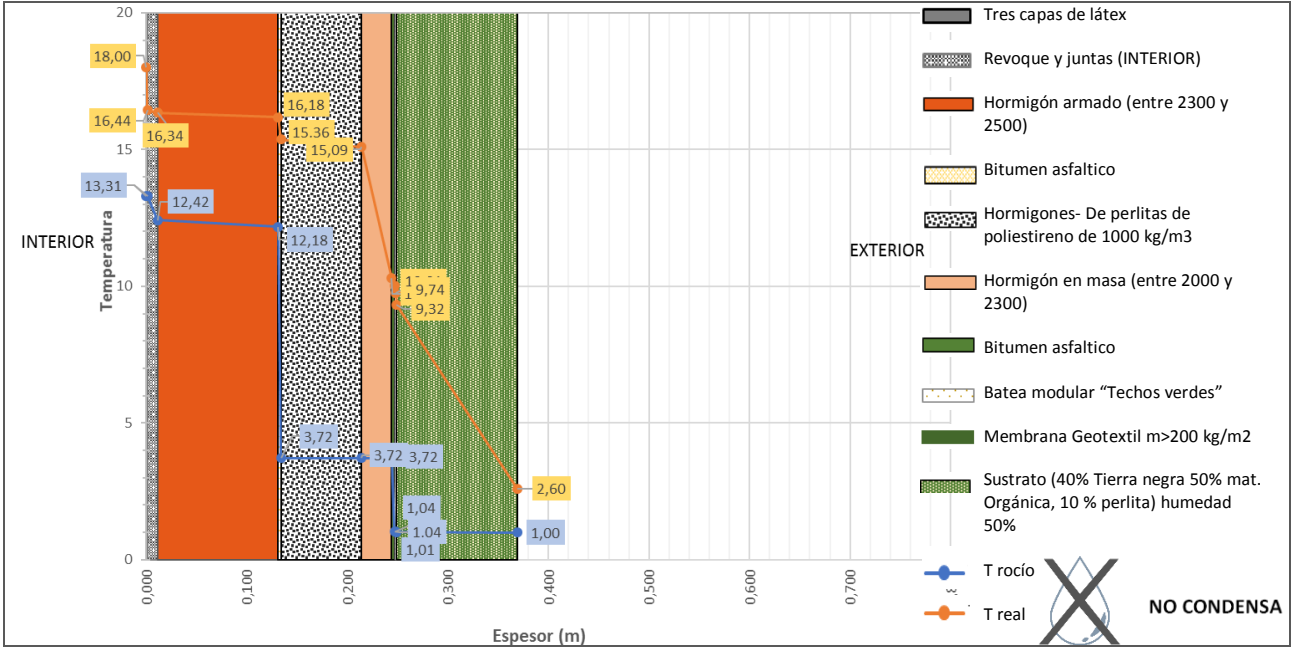
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,94 | 1,01 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



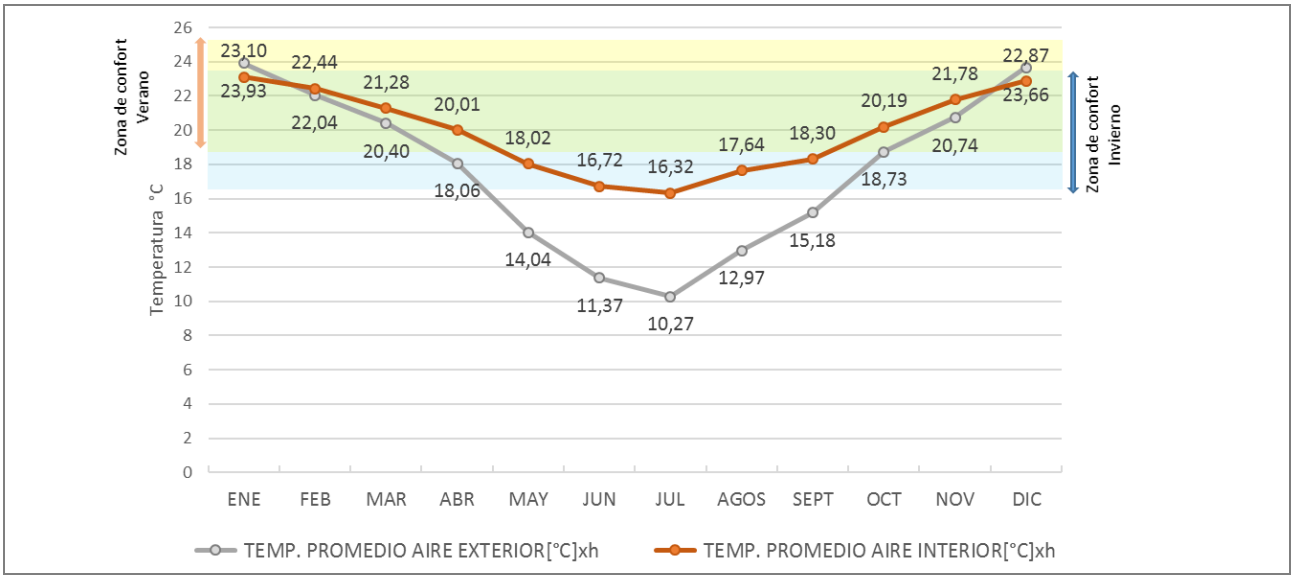

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 183,6 | 139,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **15,9** | **13,9** |
| | **Amortiguamiento:** | 0,003 | 0,006 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,9** | **13,0** |
| | **Amortiguamiento:** | 0,058 | 0,034 |

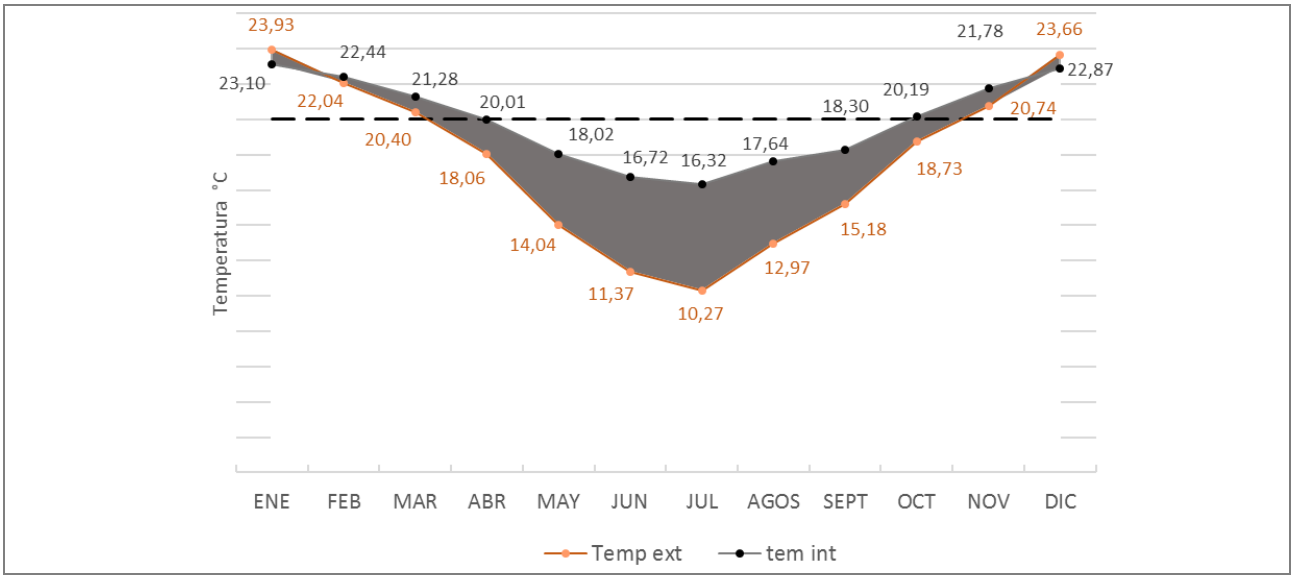
| CAJ-011 | CU | CUBIERTA AJARDINADA |
|---|---|---|

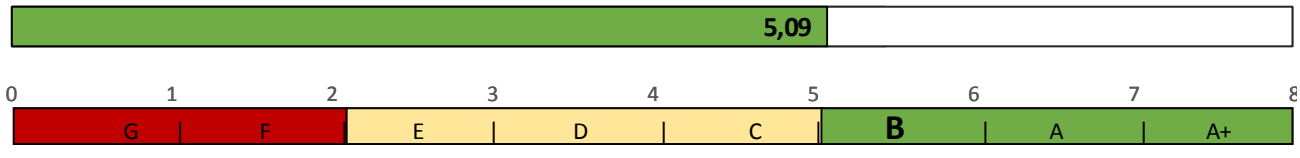
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,25** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,97** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



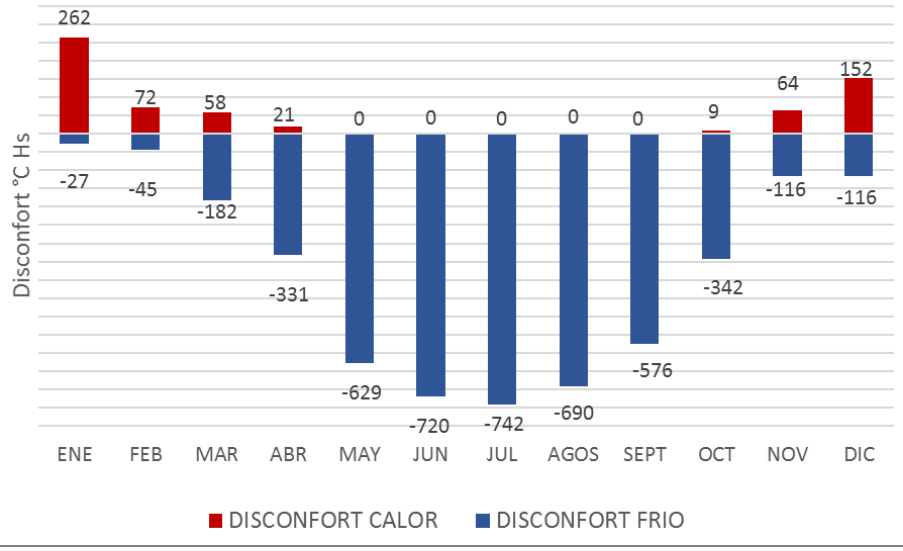




5,09 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| CAJ-011 | CU | CUBIERTA AJARDINADA |
|---|---|---|

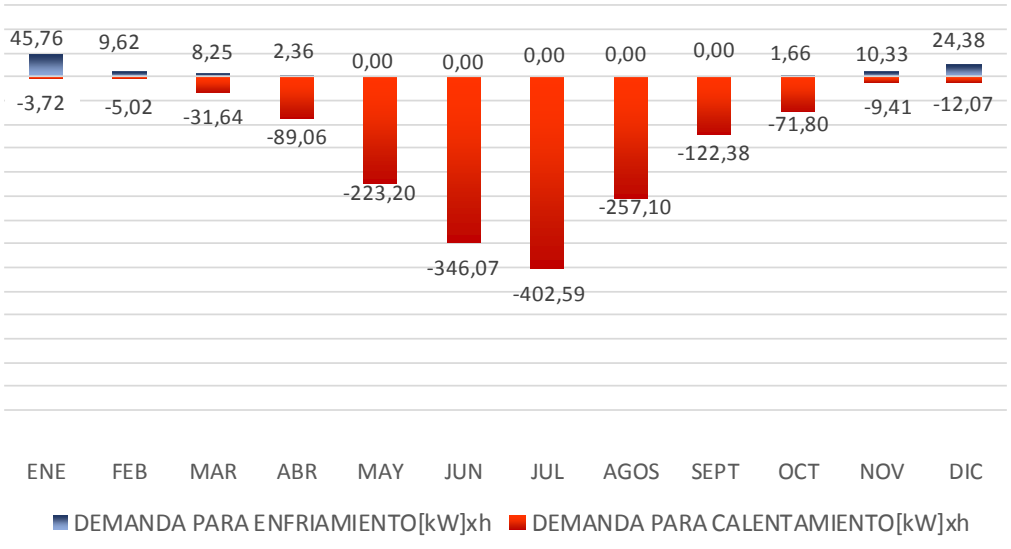
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **639** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.516** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.155** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

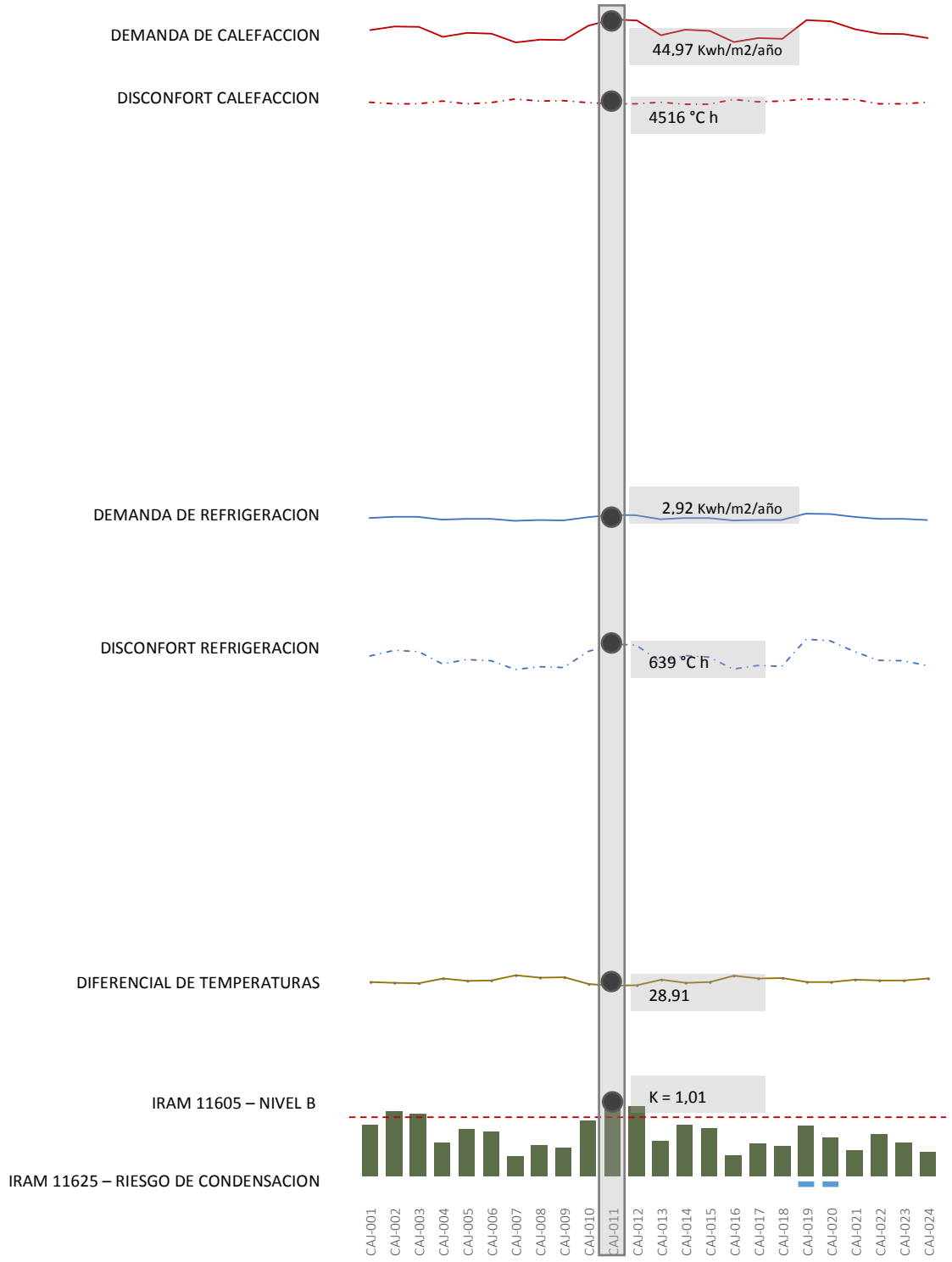



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **102,36** | kWh | 2,92 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.574,05** | kWh | 44,97 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.676,41** | kWh | **47,90** | kWh/m2/año |

| CAJ-011 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 099 | N° 050 | N° 092 | N° 074 | N° 007 | N° 083 |



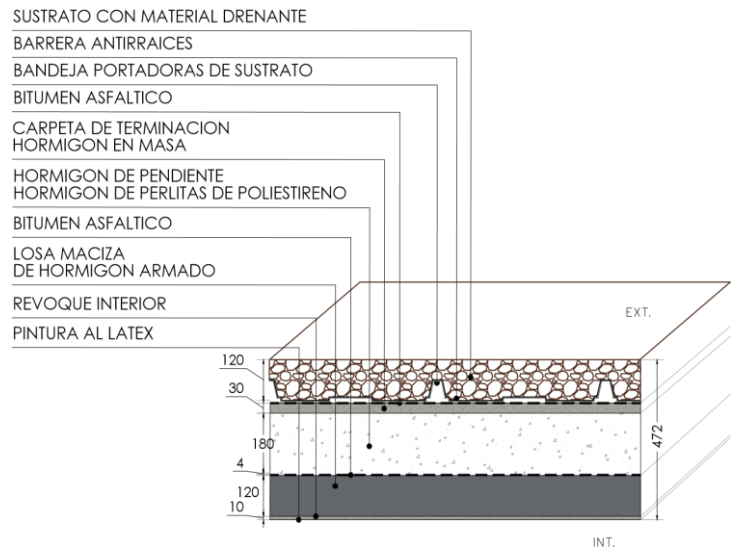

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 1,01 | 0% | 28,91 | 44,97 | 2,92 | 4516 | 639 |
| INC. FAMILIA | 172,28% | 0% | 97,45% | 109,38% | 149,65% | 99,53% | 134,75% |
| INC. MUNDIAL | 124,69% | 0% | 97,34% | 101,11% | 70,99% | 99,01% | 101,16% |

| CAJ-012 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA CON BANDEJAS SUSTRATO 12 CM HUMEDAD 100%.

## INDICE DE TRANSMITANCIA TERMICA "K"

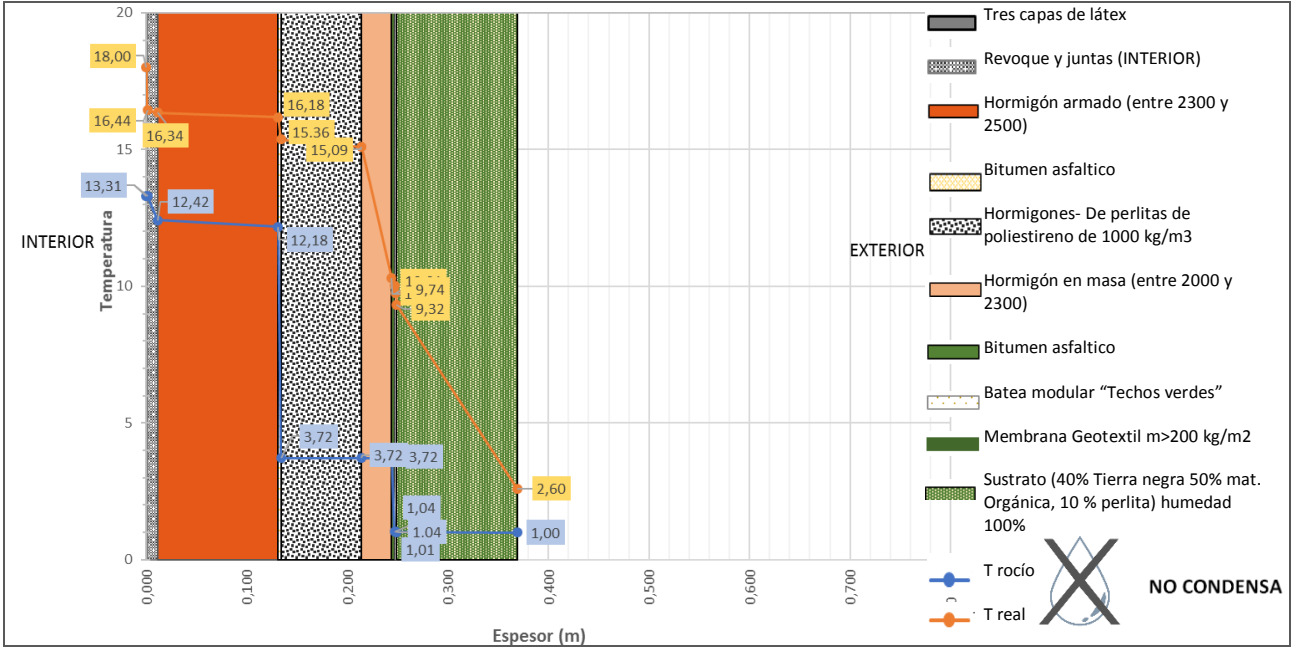
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,91 | 0,97 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



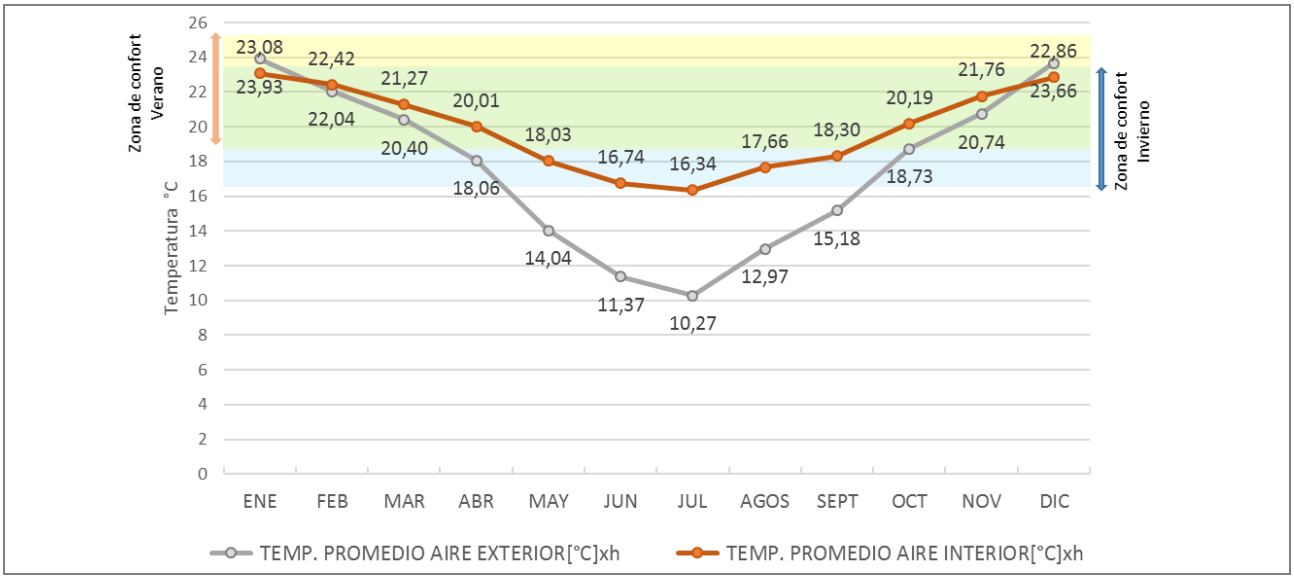

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 133,0 | 133,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,2** | **14,2** |
| | **Amortiguamiento:** | 0,005 | 0,005 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,1** | **12,7** |
| | **Amortiguamiento:** | 0,122 | 0,036 |

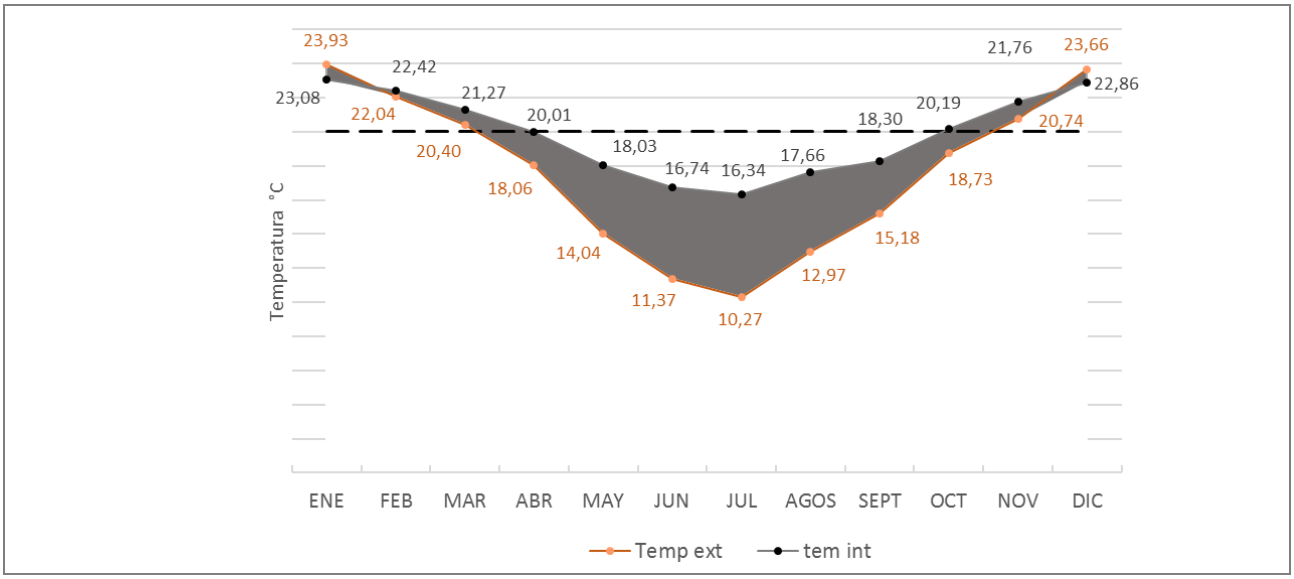
| CAJ-012 | CU | CUBIERTA AJARDINADA |
|---|---|---|

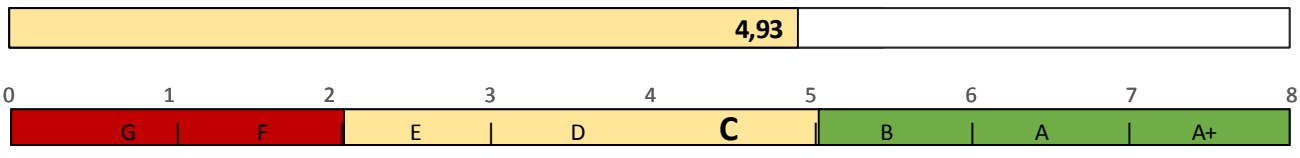
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,20** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,01** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



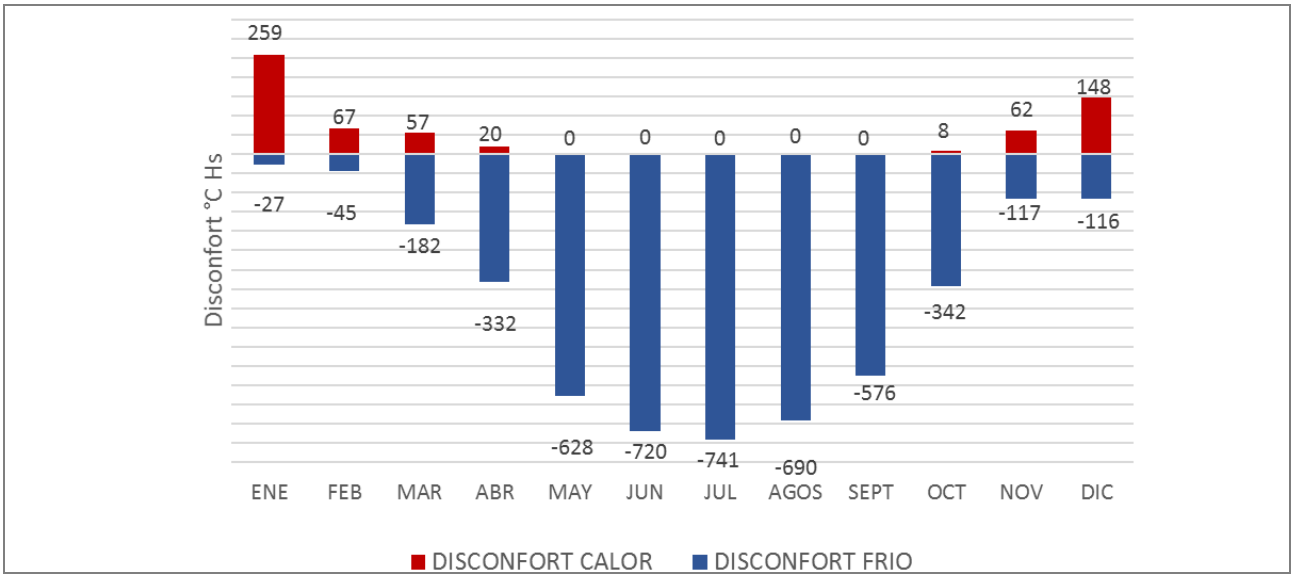




4,93 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| CAJ-012 | CU | CUBIERTA AJARDINADA |
|---|---|---|

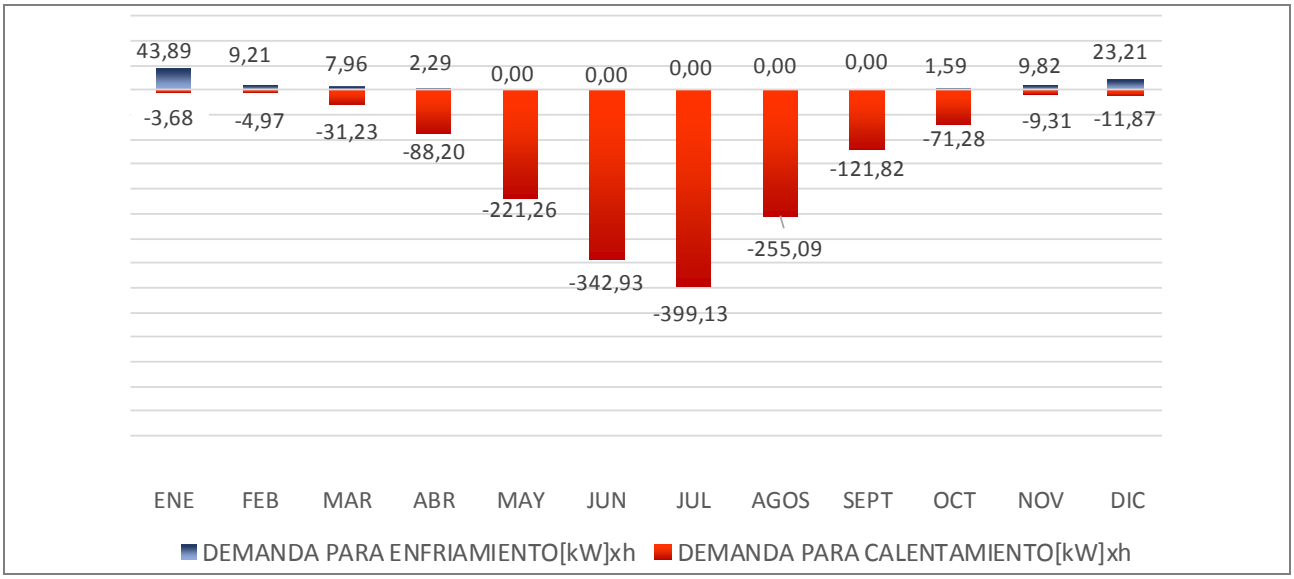
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **621** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.516** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.137** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

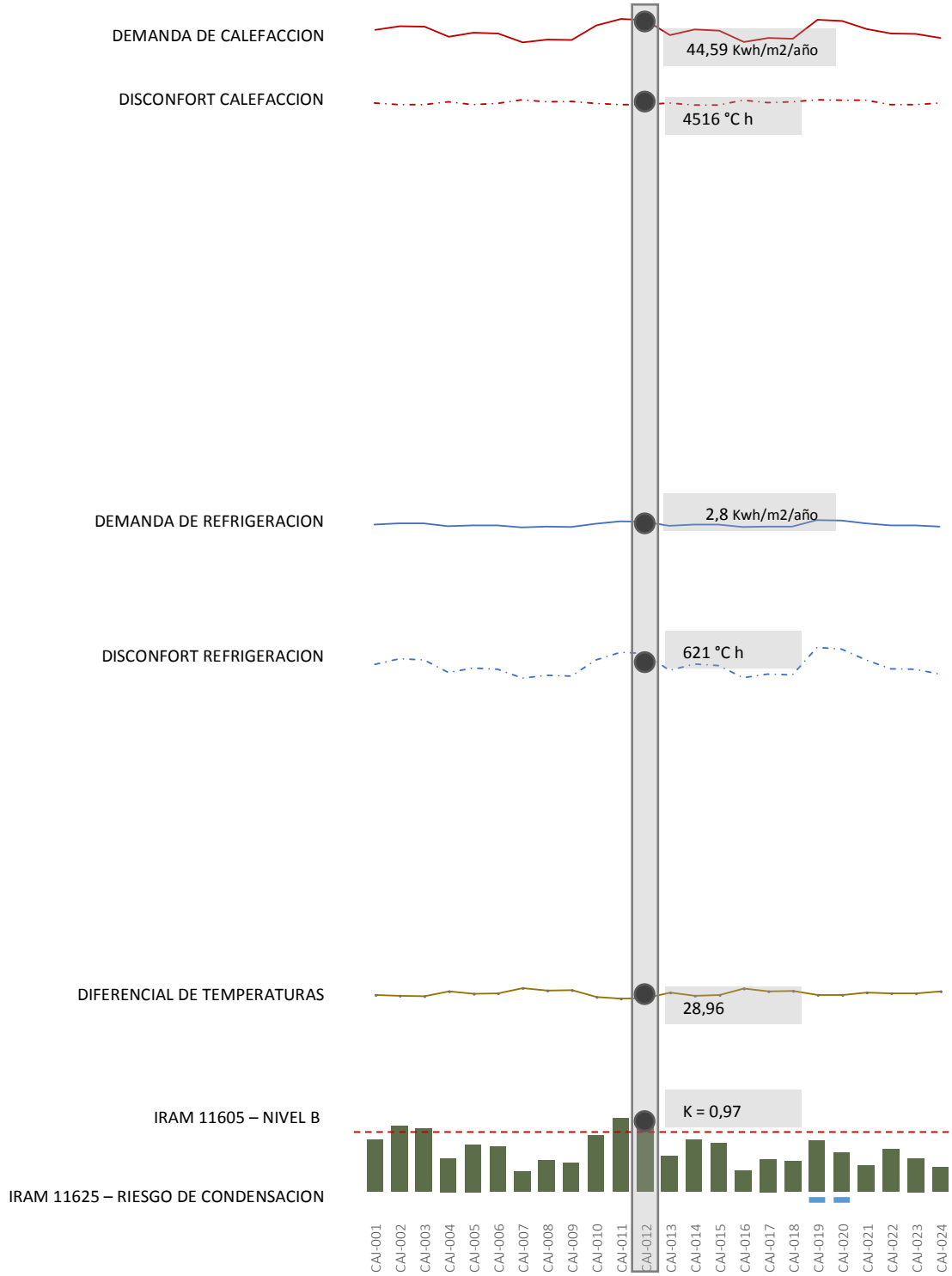



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **97,98** | kWh | 2,80 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.560,77** | kWh | 44,59 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.658,75** | kWh | **47,39** | kWh/m2/año |

| CAJ-012 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 096 | N° 100 | N° 088 | N° 065 | N° 008 | N° 077 |



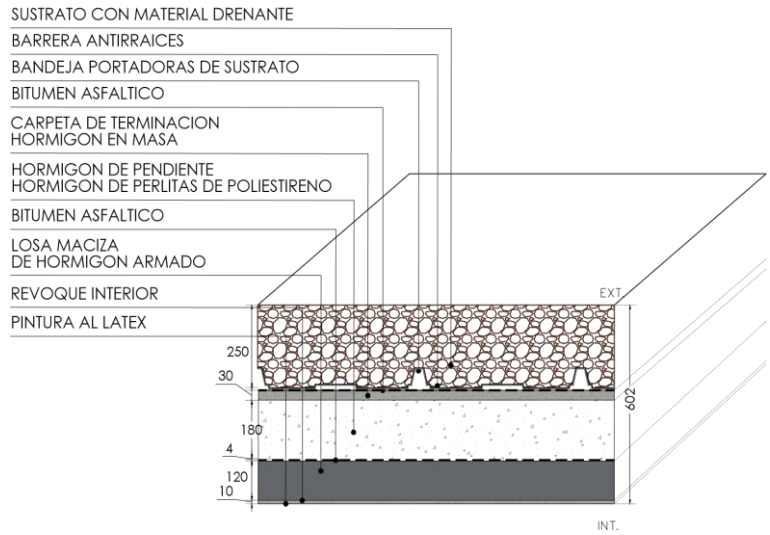

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,97 | 0% | 28,96 | 44,59 | 2,8 | 4516 | 621 |
| INC. FAMILIA | 165,46% | 0% | 97,62% | 108,46% | 143,50% | 99,53% | 130,96% |
| INC. MUNDIAL | 119,75% | 0% | 97,51% | 100,25% | 68,07% | 99,01% | 98,31% |

| CAJ-013 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 25CM- HUMEDAD 0%.

## INDICE DE TRANSMITANCIA TERMICA "K"

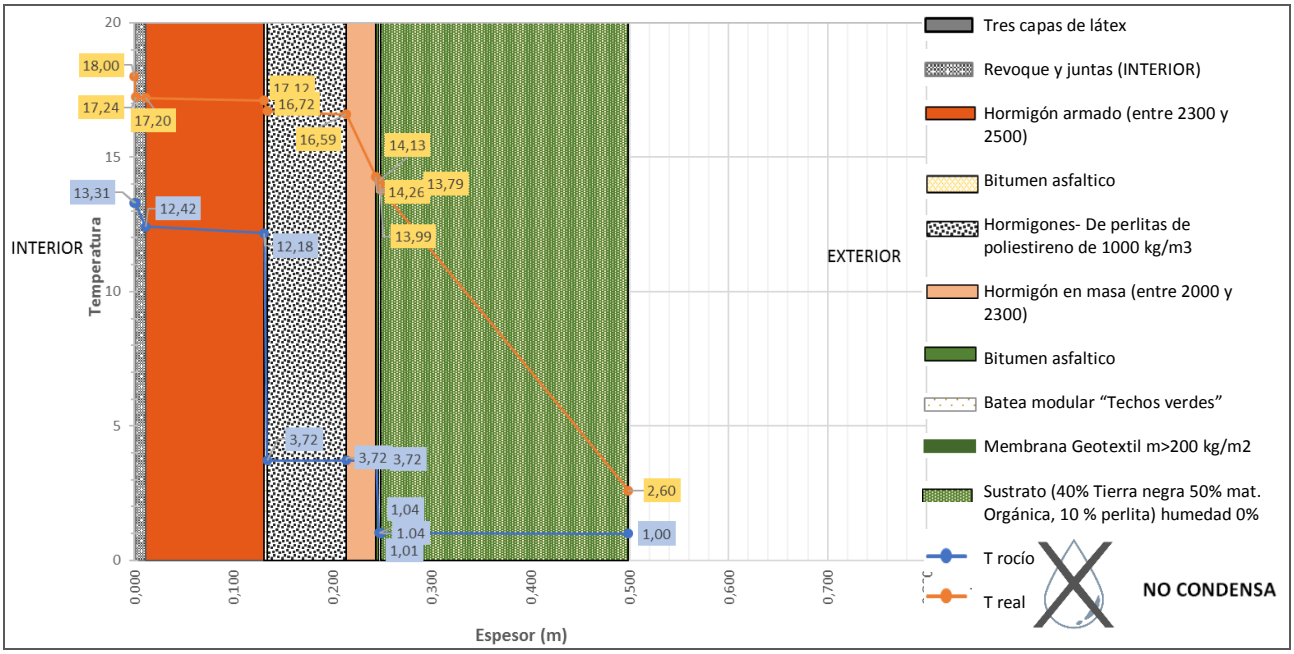
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,47 | 0,49 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



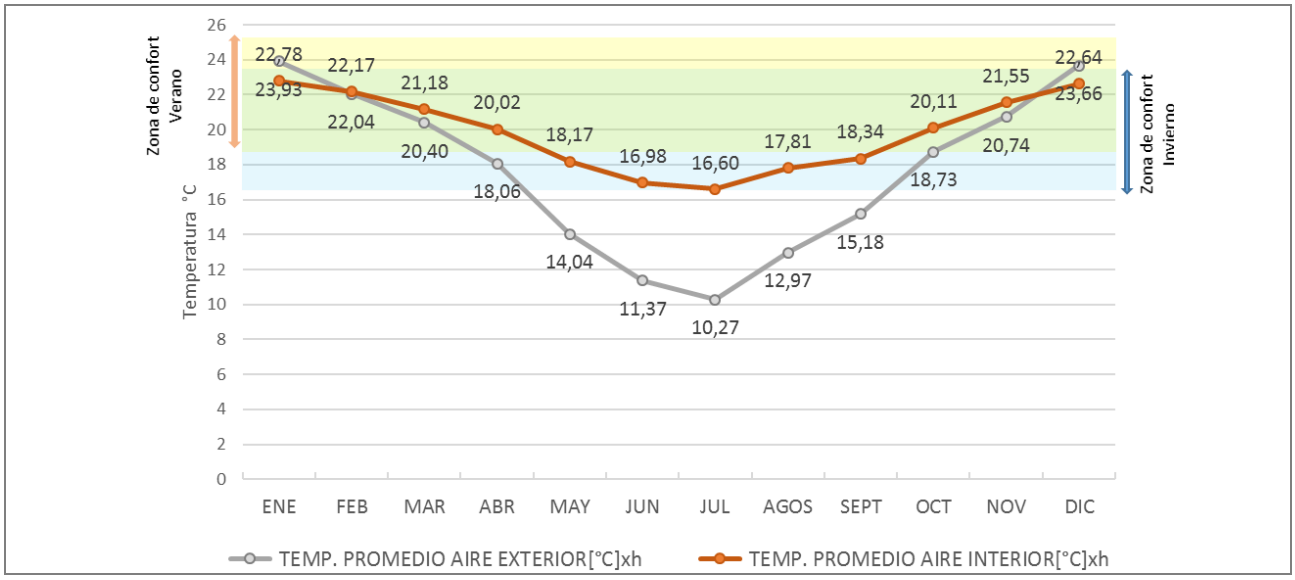

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 88,7 | 62,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **24,7** | **20,7** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **13,5** | **20,8** |
| | **Amortiguamiento:** | 0,029 | 0,004 |

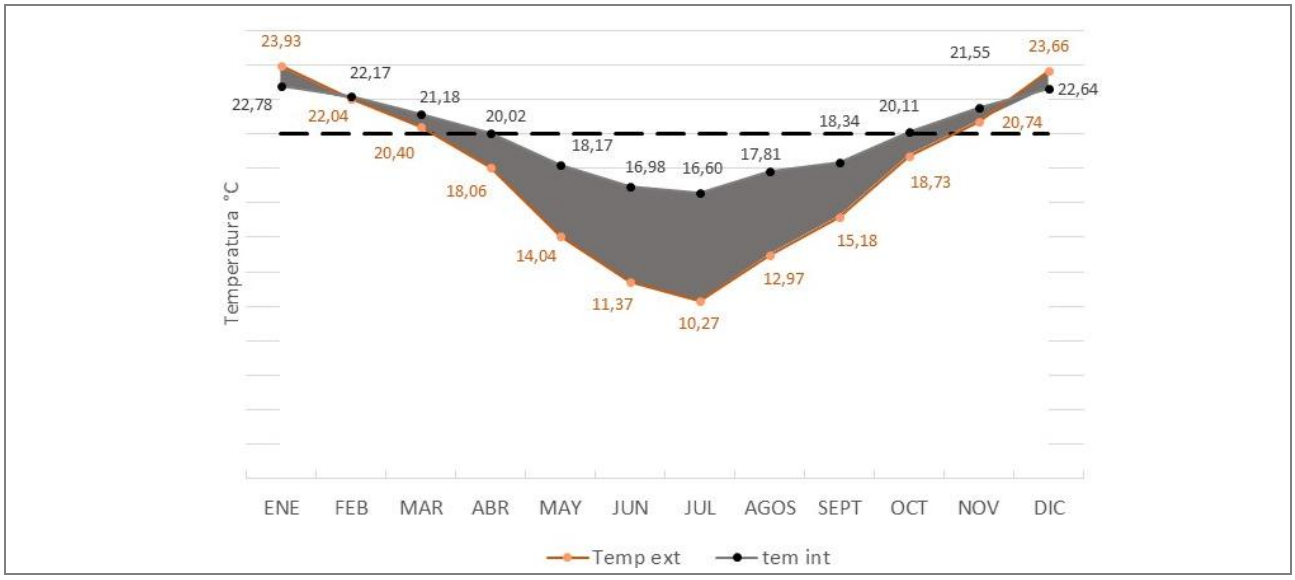
| CAJ-013 | CU | CUBIERTA AJARDINADA |
|---|---|---|

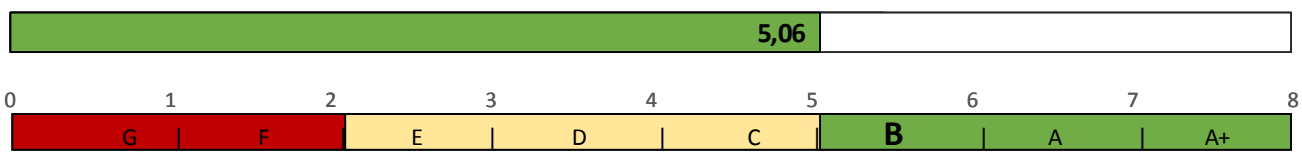
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,57** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,49** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



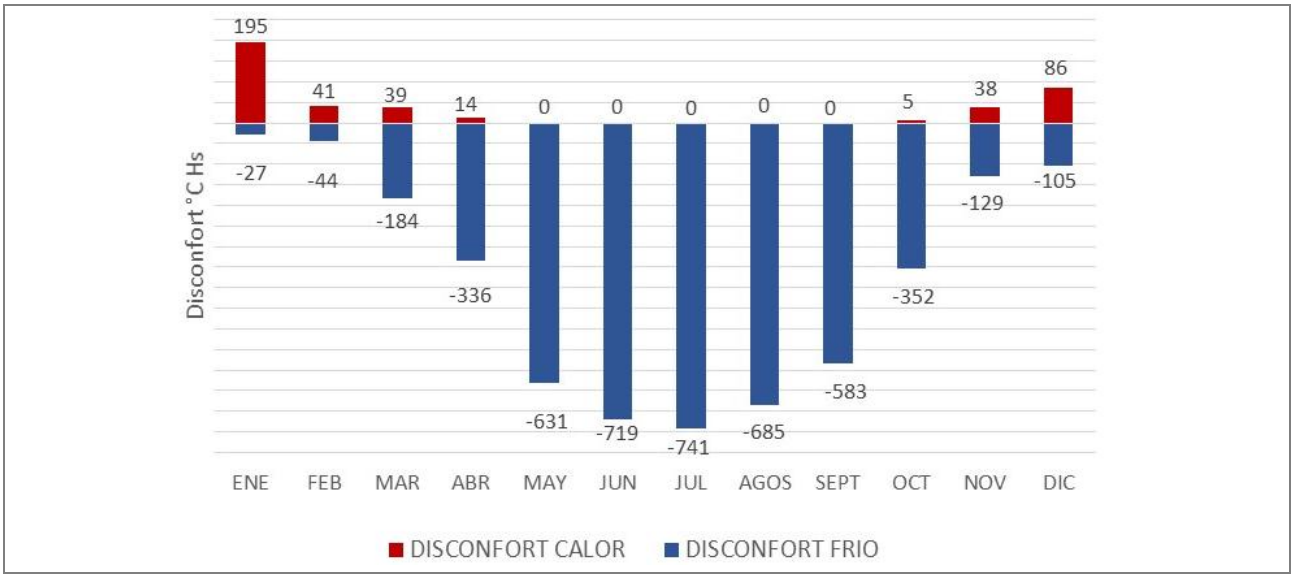




5,06 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| CAJ-013 | CU | CUBIERTA AJARDINADA |
|---|---|---|

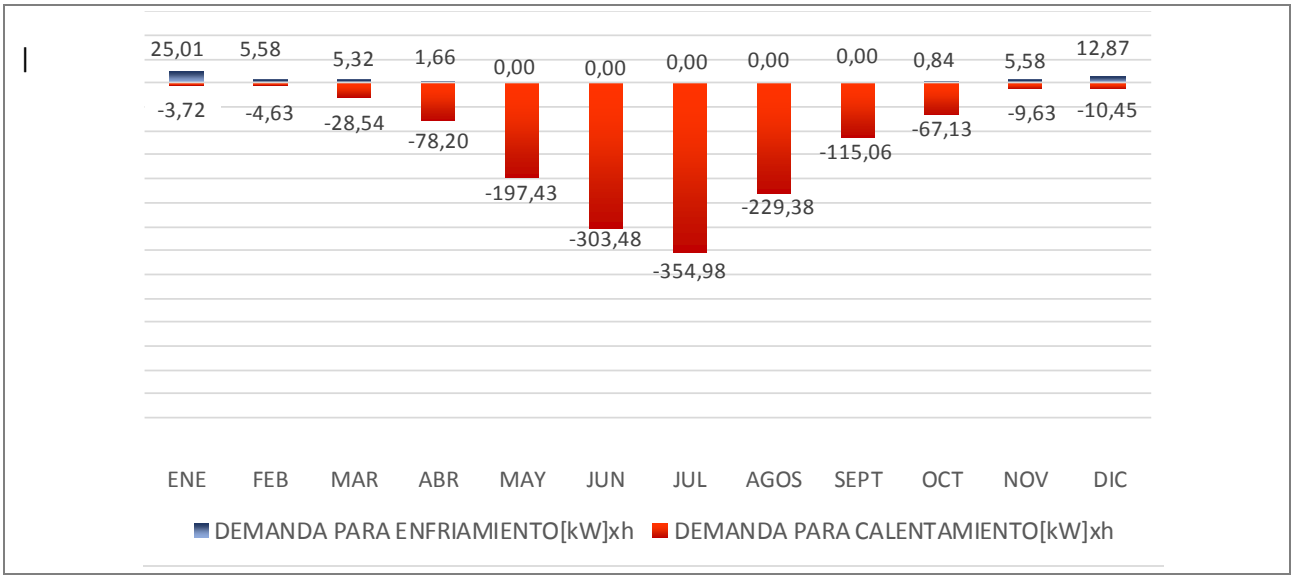
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **419** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.537** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.956** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

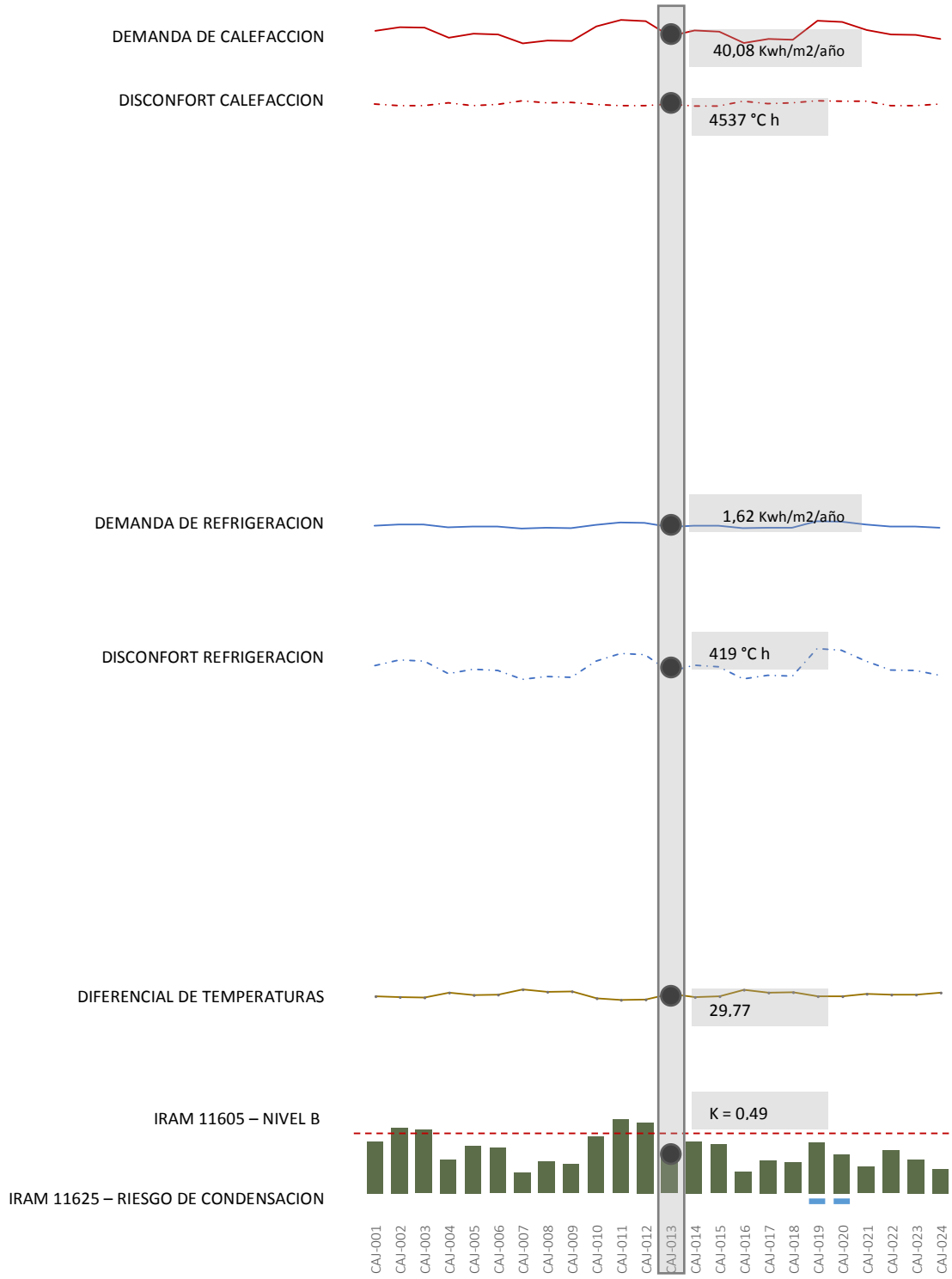



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **56,86** | kWh | 1,62 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.402,63** | kWh | 40,08 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.459,50** | kWh | **41,70** | kWh/m2/año |

| CAJ-013 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 059 | N° 062 | N° 018 | N° 013 | N° 021 | N° 012 |



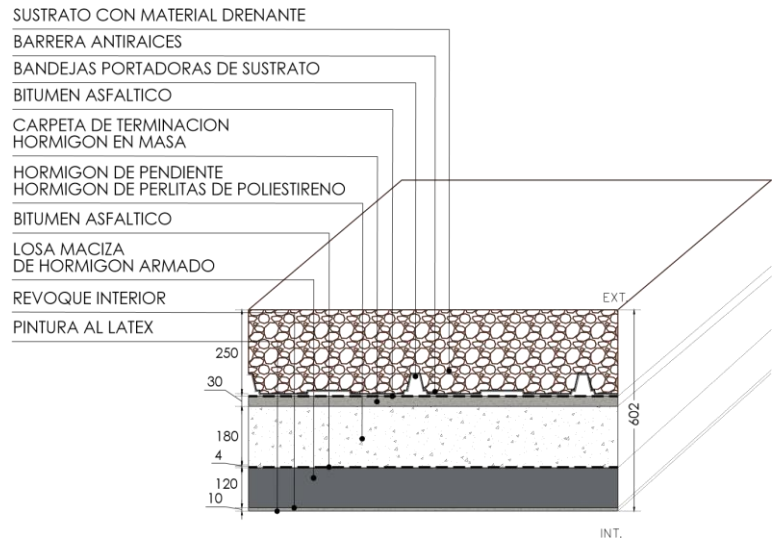

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,49 | 0% | 29,77 | 40,08 | 1,62 | 4537 | 419 |
| INC. FAMILIA | 83,58% | 0% | 100,35% | 97,49% | 83,02% | 99,99% | 88,36% |
| INC. MUNDIAL | 60,49% | 0% | 100,24% | 90,11% | 39,38% | 99,48% | 66,33% |

| CAJ-014 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 25CM- HUMEDAD 50%.

## INDICE DE TRANSMITANCIA TERMICA "K"

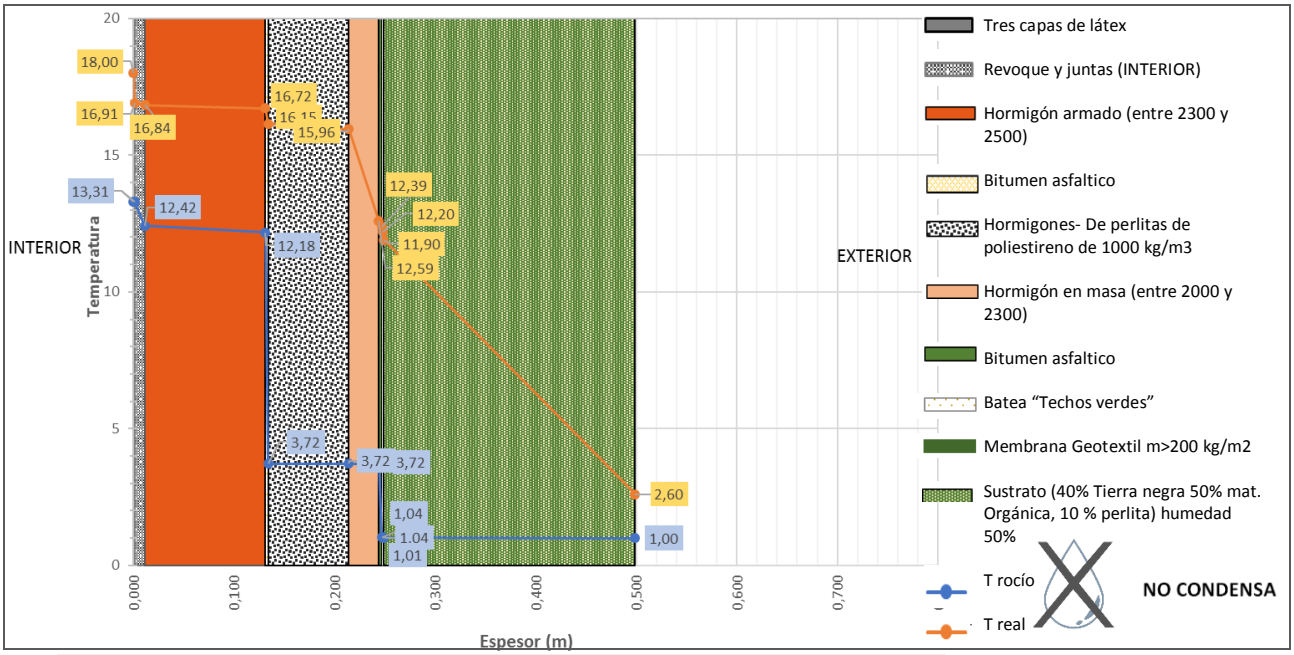
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,68 | 0,71 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



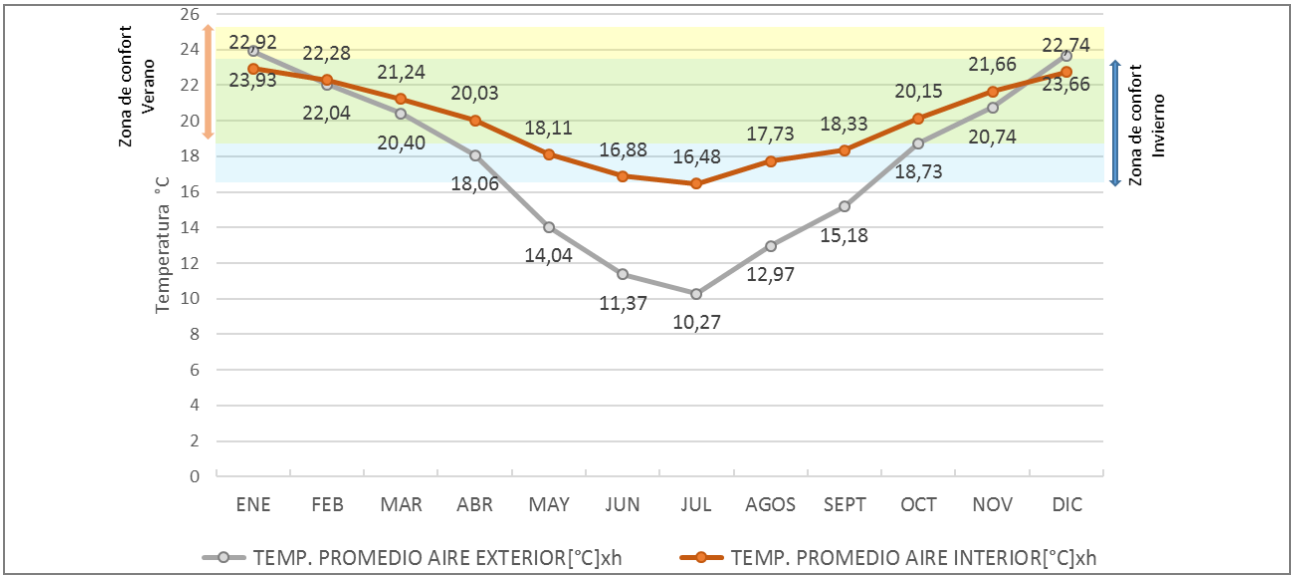

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 154,8 | 93,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **21,8** | **16,9** |
| | **Amortiguamiento:** | 0,000 | 0,002 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **14,3** | **17,3** |
| | **Amortiguamiento:** | 0,024 | 0,011 |

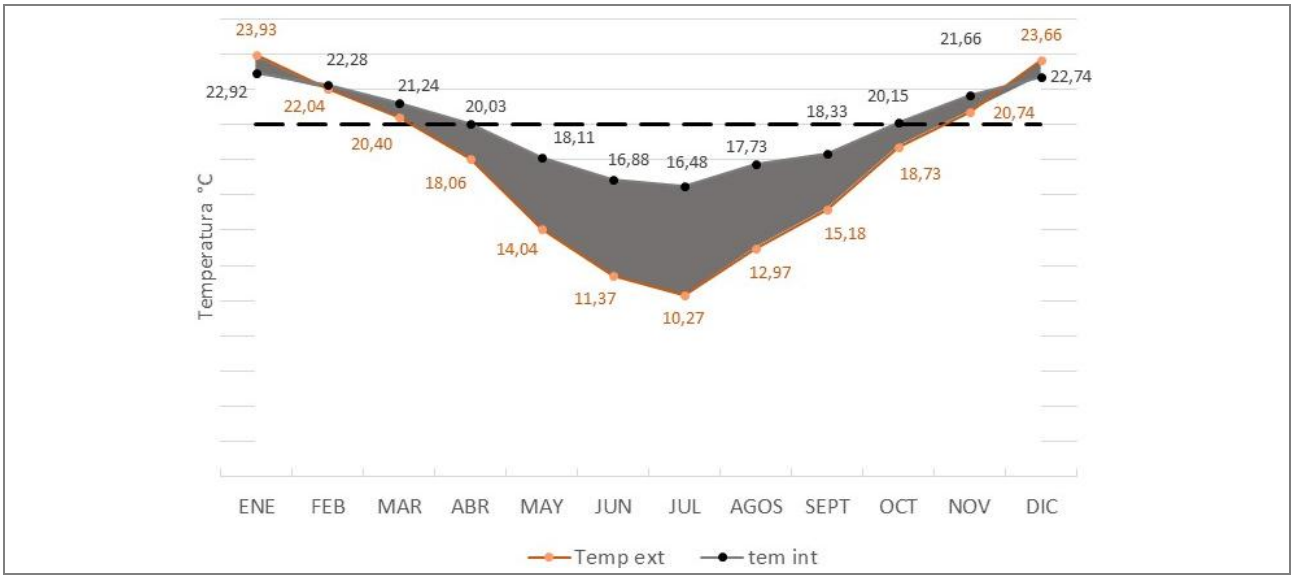
| CAJ-014 | CU | CUBIERTA AJARDINADA |
|---|---|---|

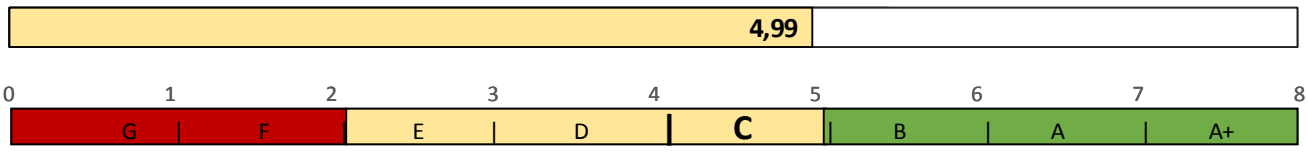
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,79** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,32** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



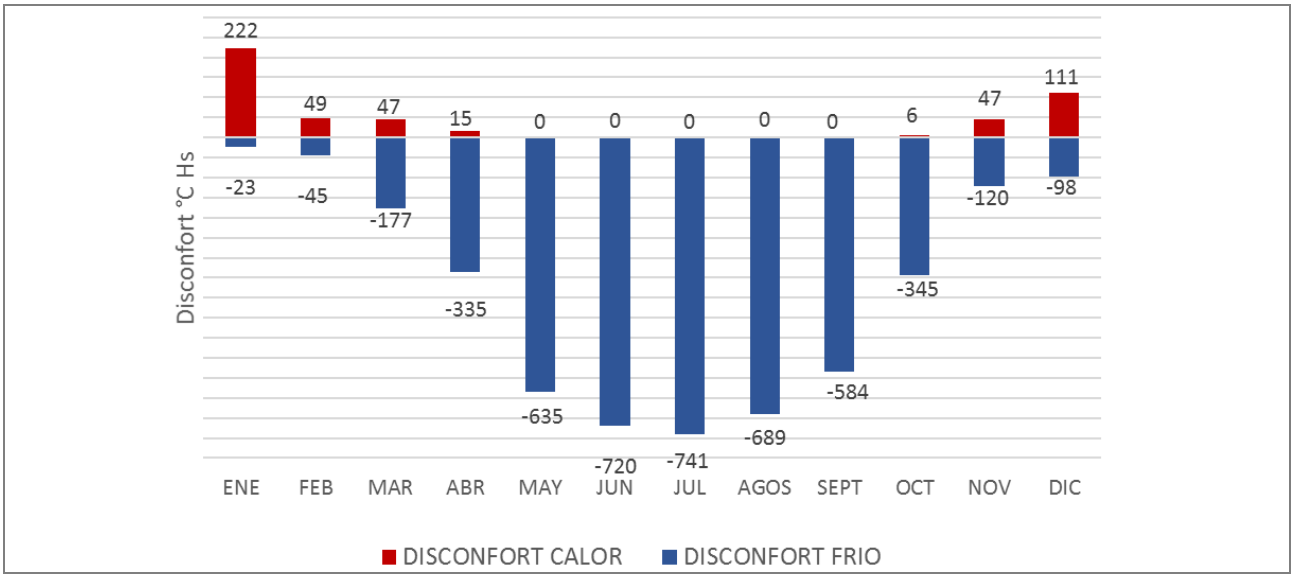




4,99 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| CAJ-014 | CU | CUBIERTA AJARDINADA |
|---|---|---|

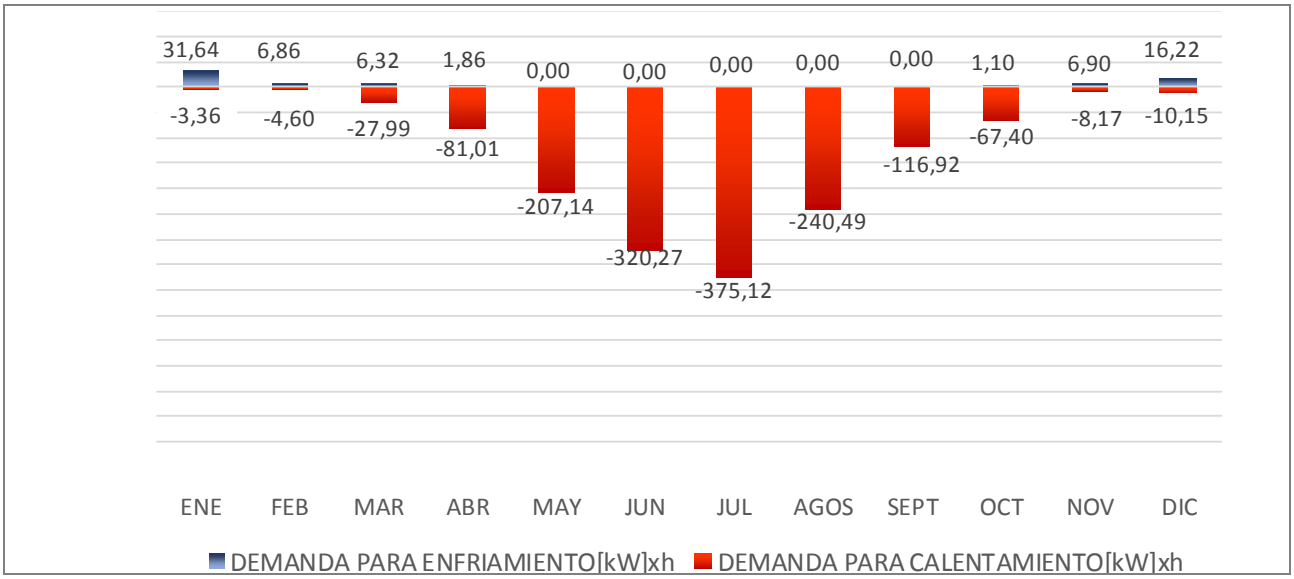
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **496** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.512** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.008** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

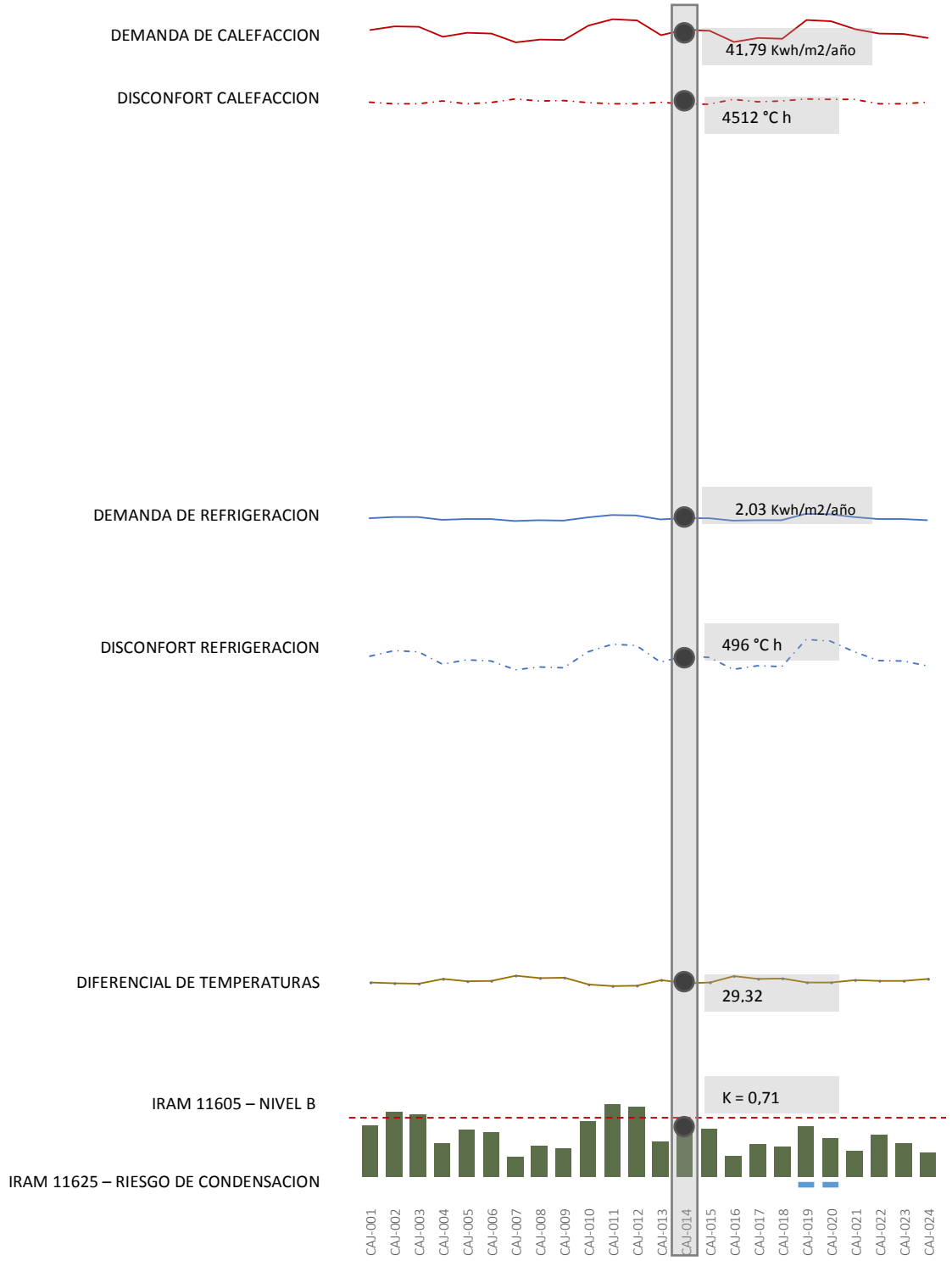



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **70,89** | kWh | 2,03 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.462,61** | kWh | 41,79 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.533,51** | kWh | **43,81** | kWh/m2/año |

| CAJ-014 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 084 | N° 086 | N° 047 | N° 045 | N° 004 | N° 045 |



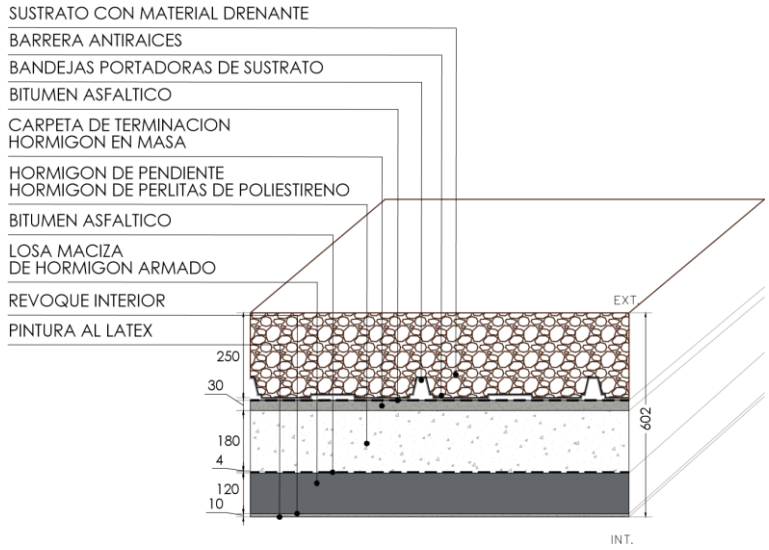

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,71 | 0% | 29,32 | 41,79 | 2,03 | 4512 | 496 |
| INC. FAMILIA | 121,11% | 0% | 98,83% | 101,65% | 104,04% | 99,44% | 104,60% |
| INC. MUNDIAL | 87,65% | 0% | 98,72% | 93,96% | 49,35% | 98,93% | 78,52% |

| CAJ-015 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 25CM- HUMEDAD 100%.

## INDICE DE TRANSMITANCIA TERMICA "K"

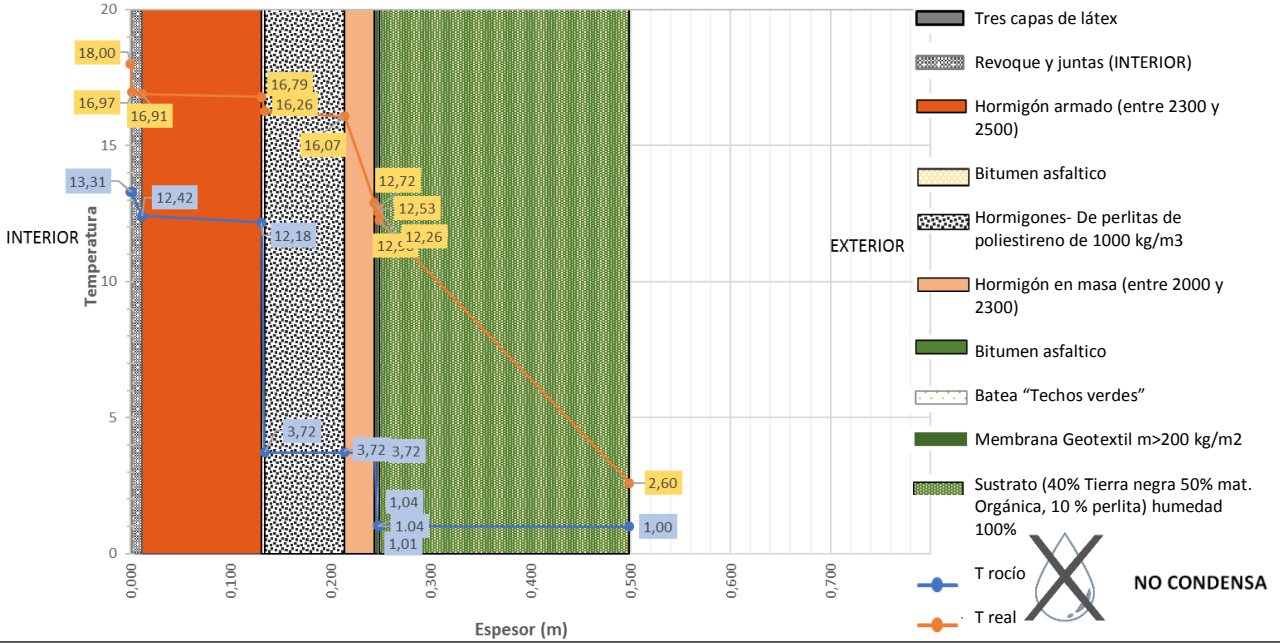
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,64 | 0,67 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



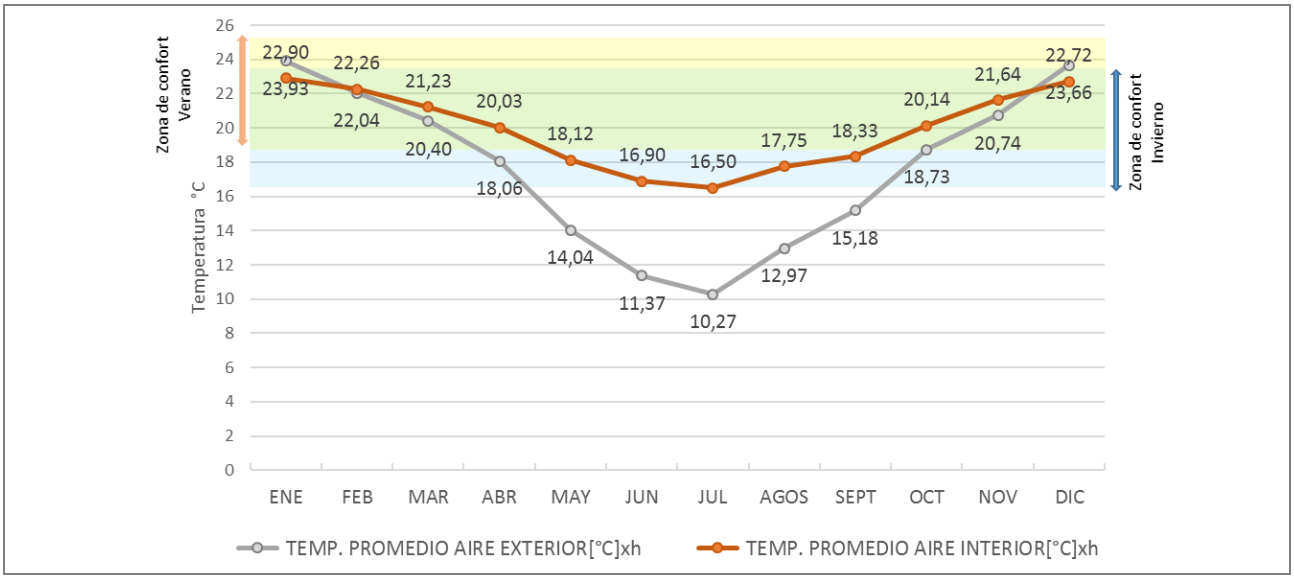

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 87,4 | 87,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **17,5** | **17,5** |
| | **Amortiguamiento:** | 0,002 | 0,002 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,1** | **16,0** |
| | **Amortiguamiento:** | 0,122 | 0,015 |

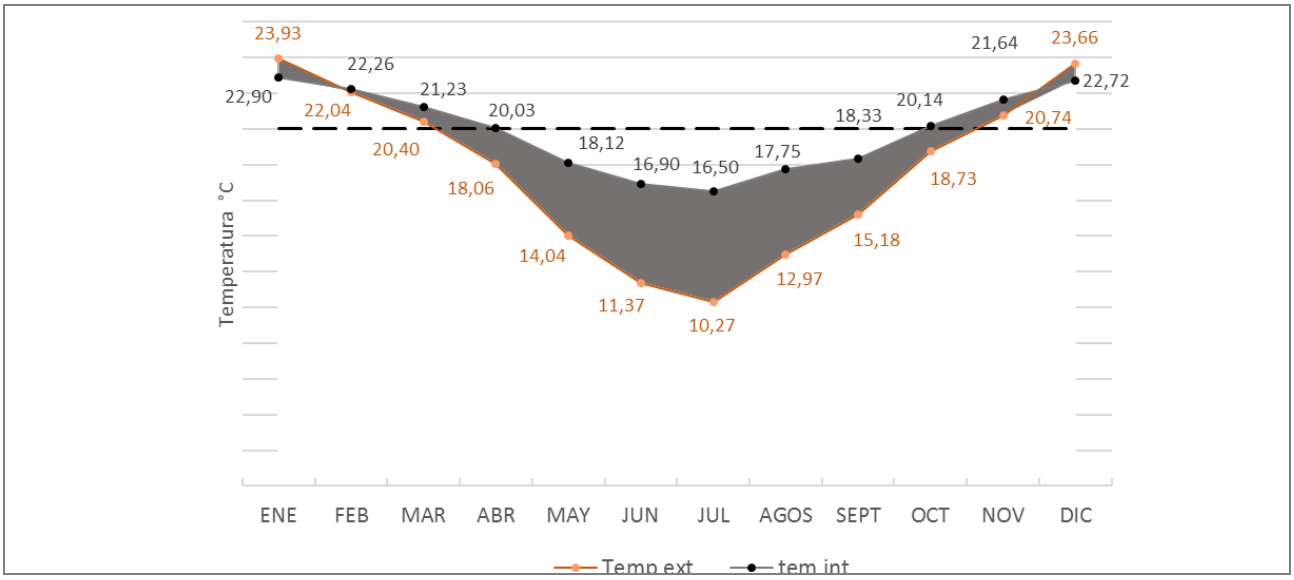
| CAJ-015 | CU | CUBIERTA AJARDINADA |
|---|---|---|

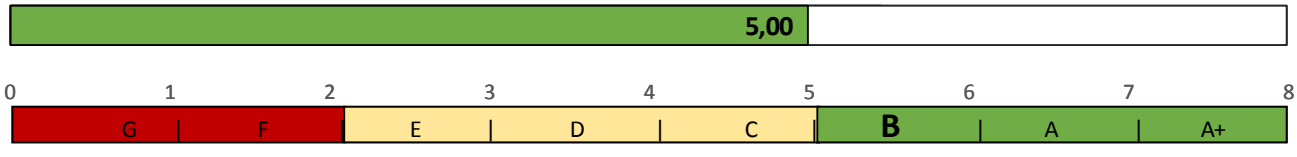
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,74** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,36** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



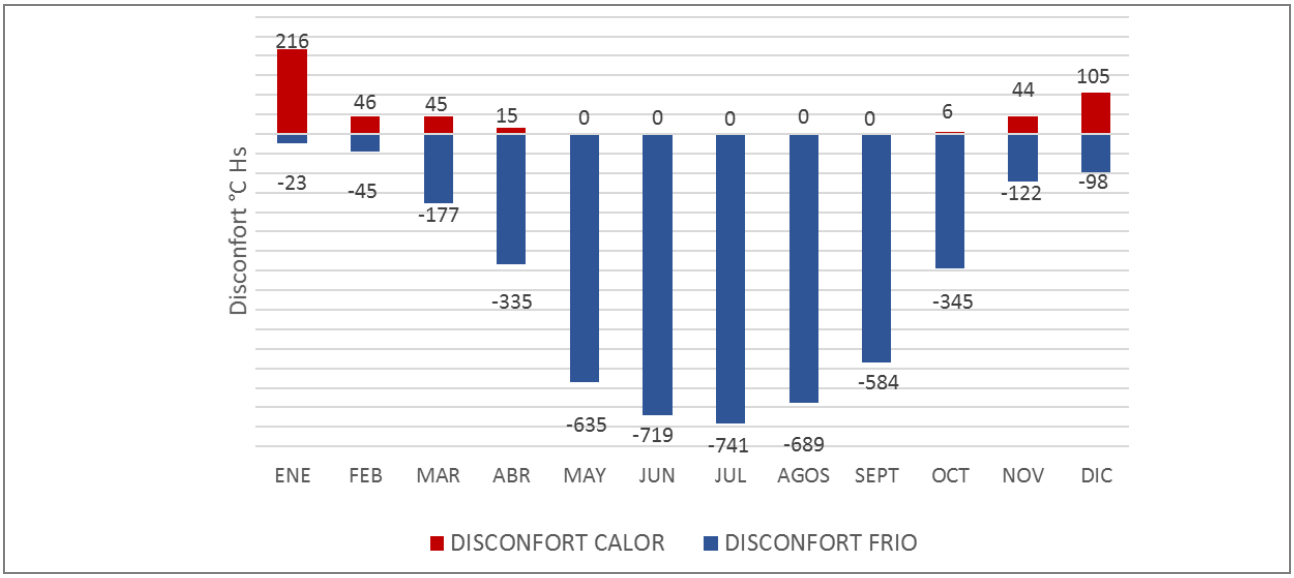




5,00 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| CAJ-015 | CU | CUBIERTA AJARDINADA |
|---|---|---|

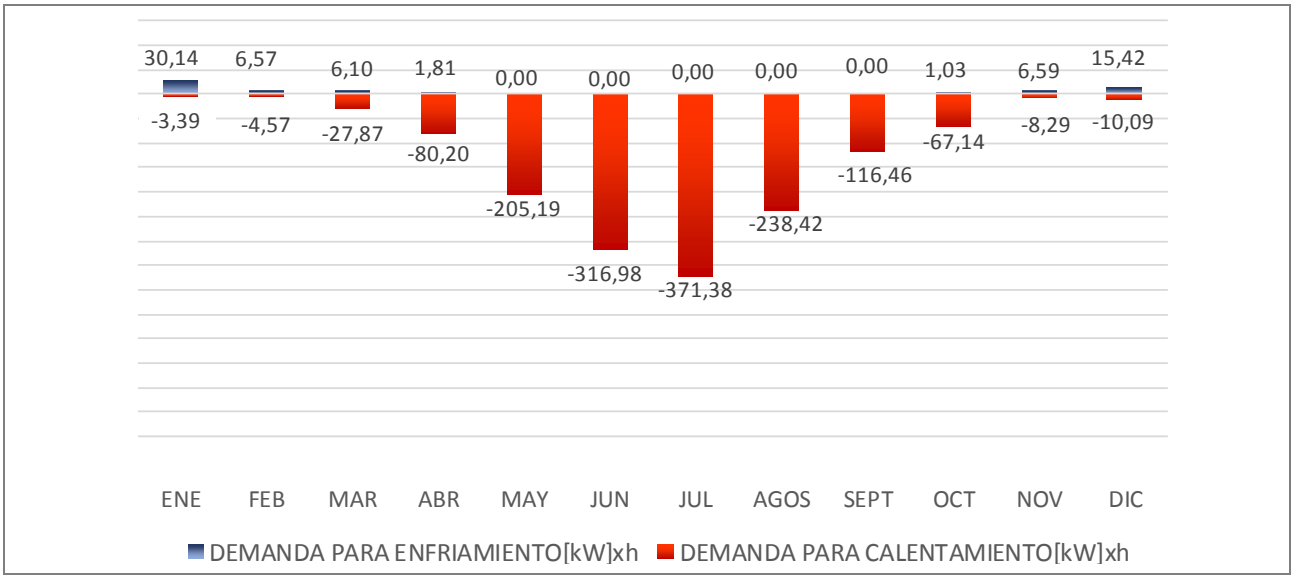
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **477** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.512** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.989** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

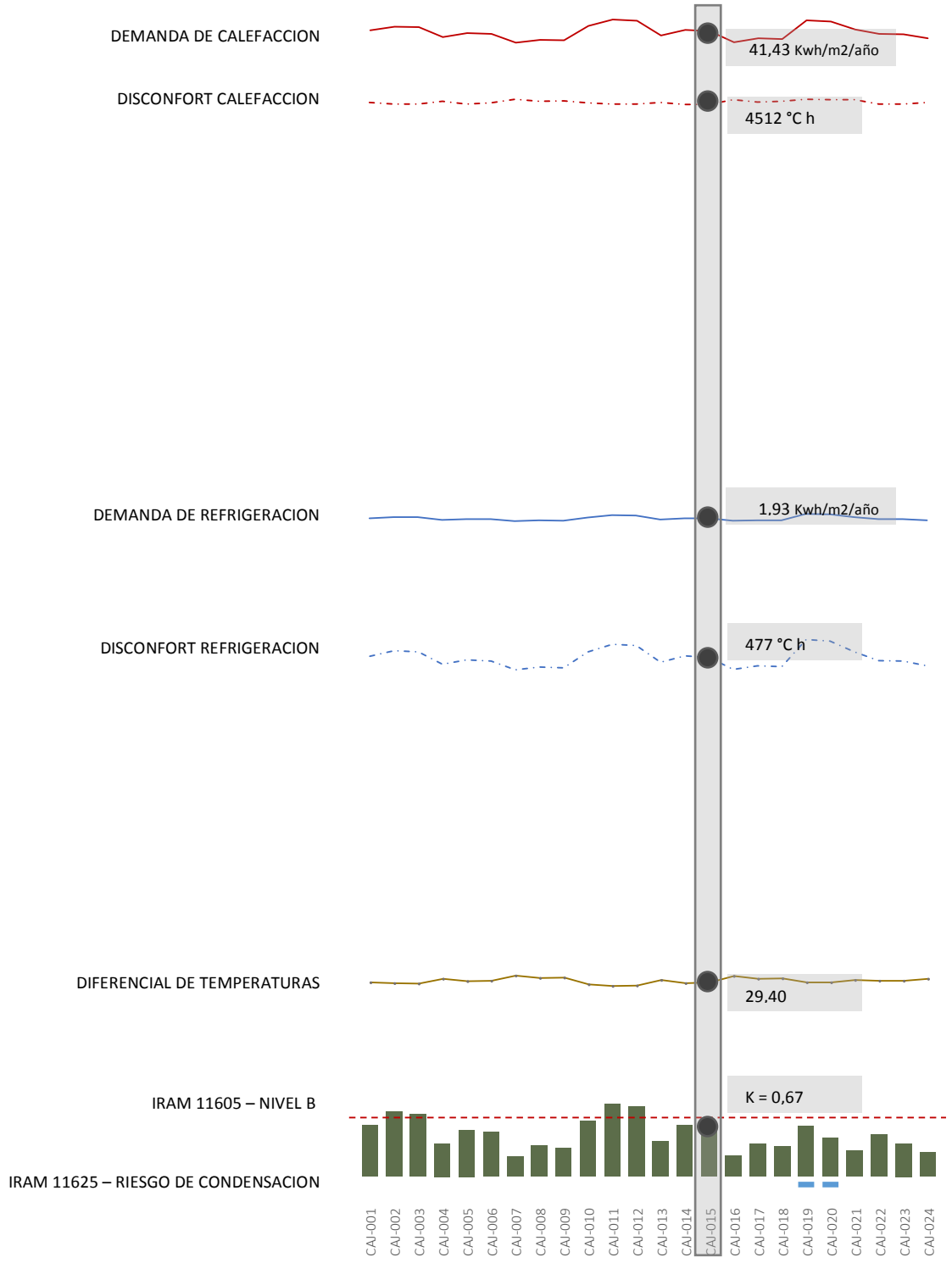



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **67,66** | kWh | 1,93 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.449,99** | kWh | 41,43 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.517,65** | kWh | **43,36** | kWh/m2/año |

| CAJ-015 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 081 | N° 081 | N° 045 | N° 036 | N° 005 | N° 031 |



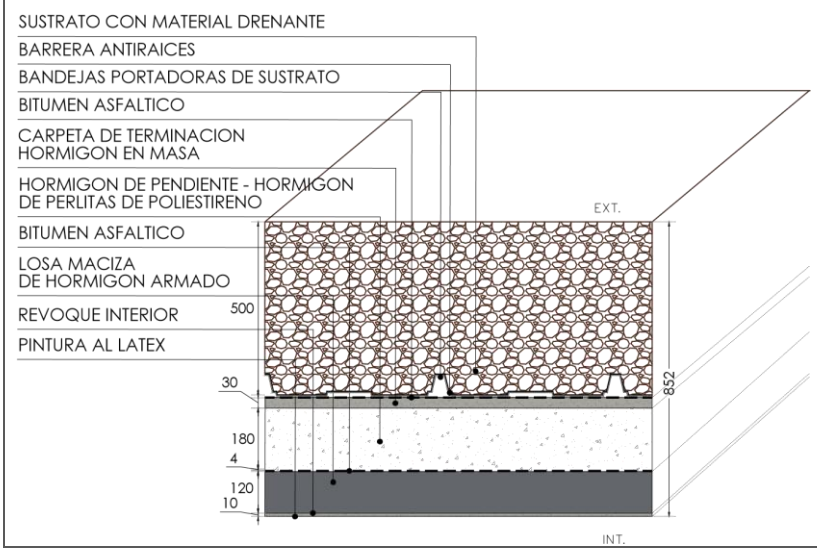

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,67 | 0% | 29,40 | 41,43 | 1,93 | 4512 | 477 |
| INC. FAMILIA | 114,29% | 0% | 99,10% | 100,77% | 98,91% | 99,44% | 100,59% |
| INC. MUNDIAL | 82,72% | 0% | 98,99% | 93,15% | 46,92% | 98,93% | 75,52% |

| CAJ-016 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 50CM- HUMEDAD 0%.

## INDICE DE TRANSMITANCIA TERMICA "K"

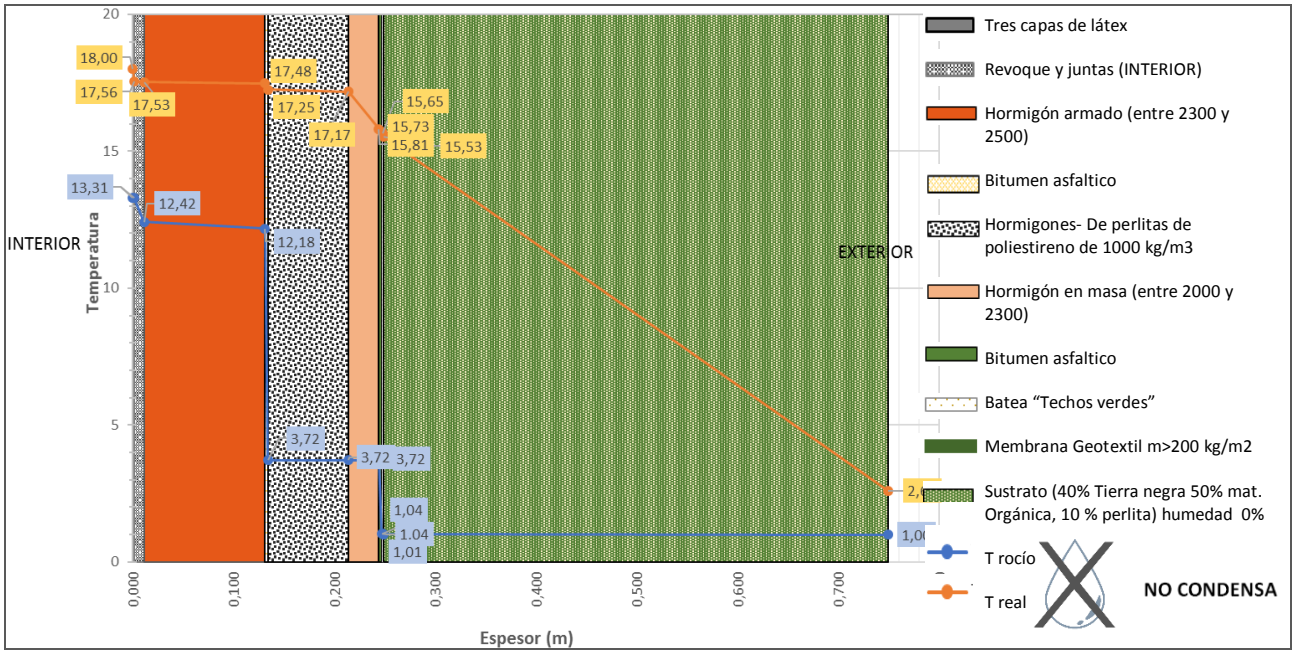
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,28 | 0,29 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



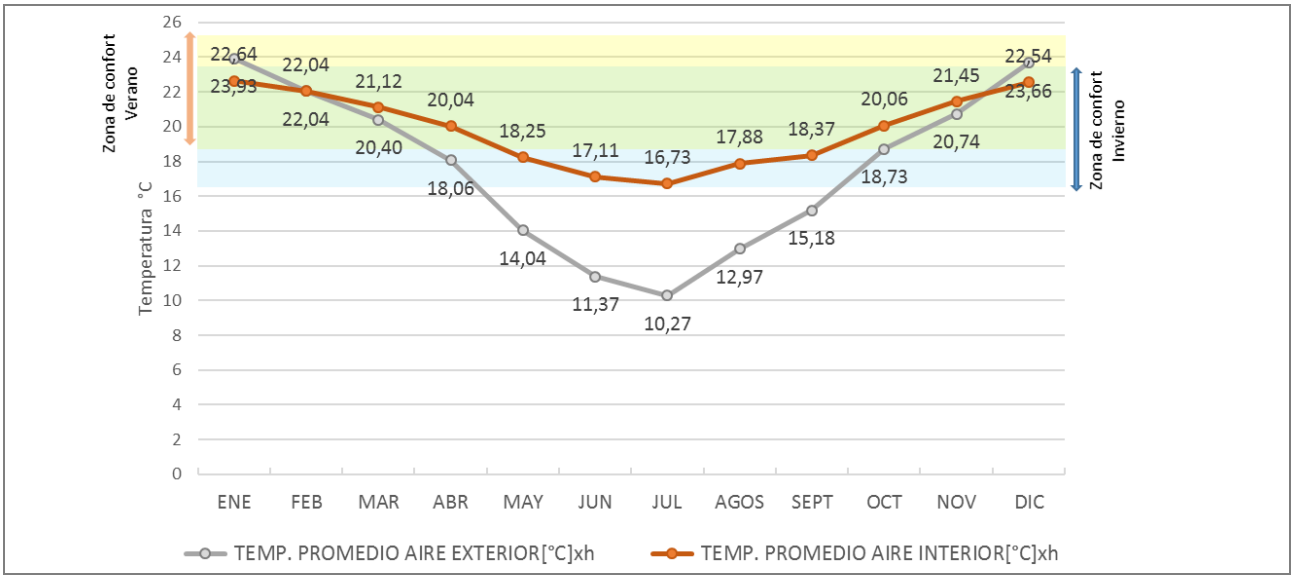

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 65,5 | 35,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **37,3** | **27,5** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **20,6** | **30,3** |
| | **Amortiguamiento:** | 0,005 | 0,000 |

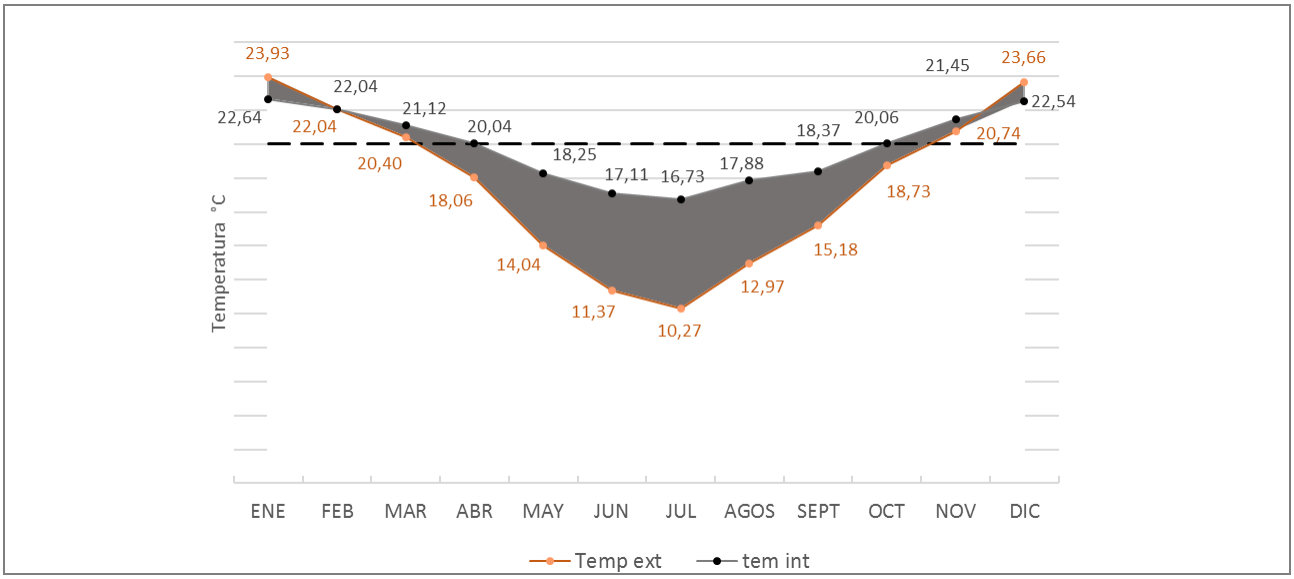
| CAJ-016 | CU | CUBIERTA AJARDINADA |
|---|---|---|

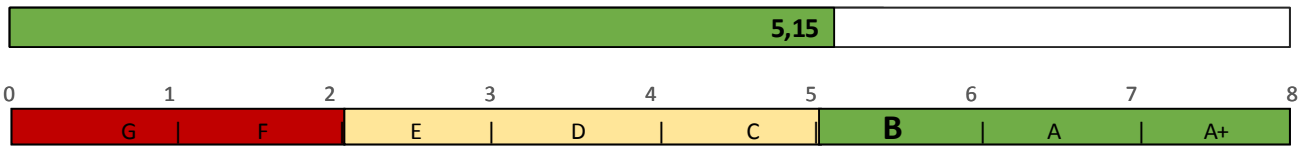
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,21** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,76** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



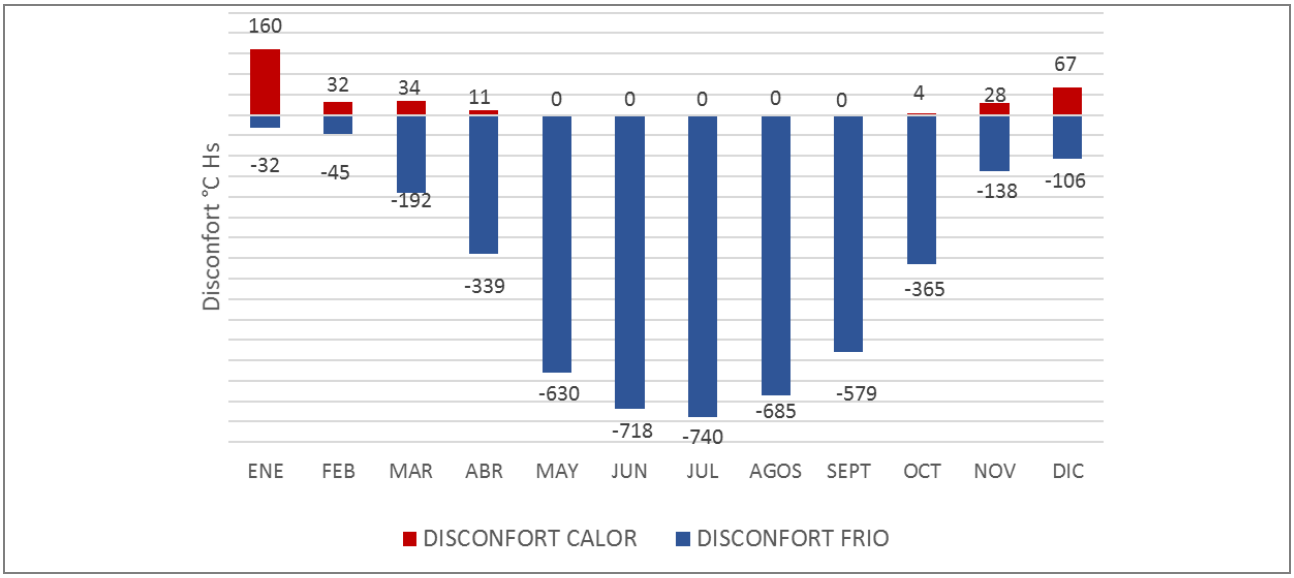




5,15 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| CAJ-016 | CU | CUBIERTA AJARDINADA |
|---|---|---|

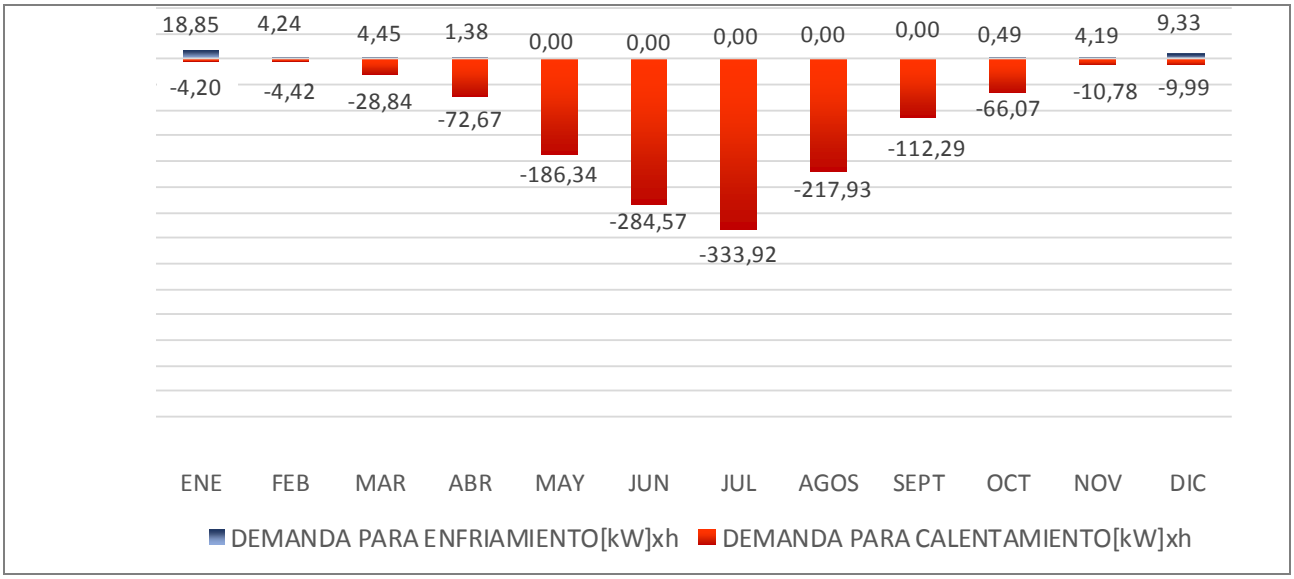
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **335** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.569** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.904** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

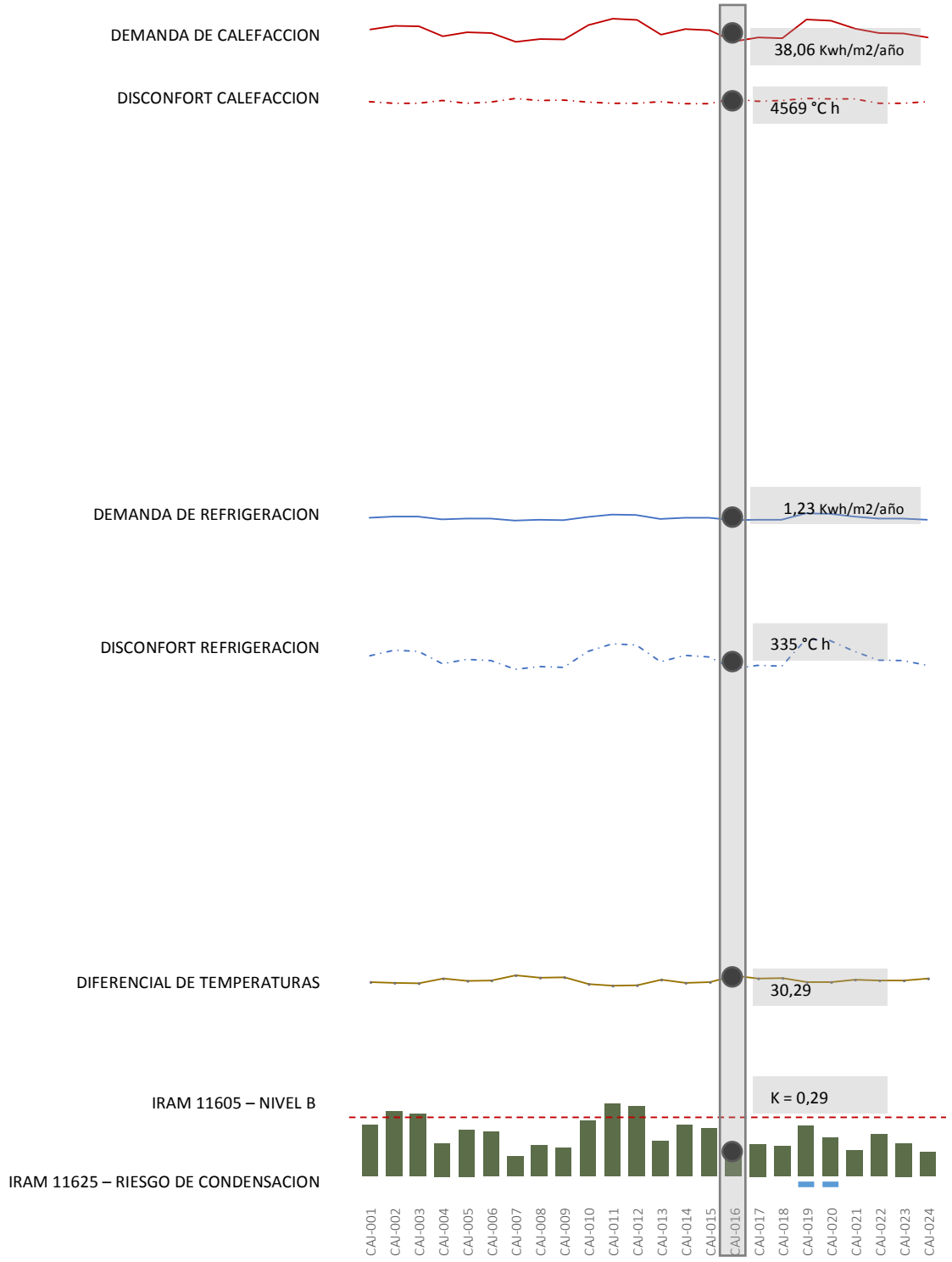



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,94** | kWh | 1,23 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.332,02** | kWh | 38,06 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.374,95** | kWh | **39,28** | kWh/m2/año |

| CAJ-016 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 010 | N° 014 | N° 005 | N° 004 | N° 057 | N° 004 |



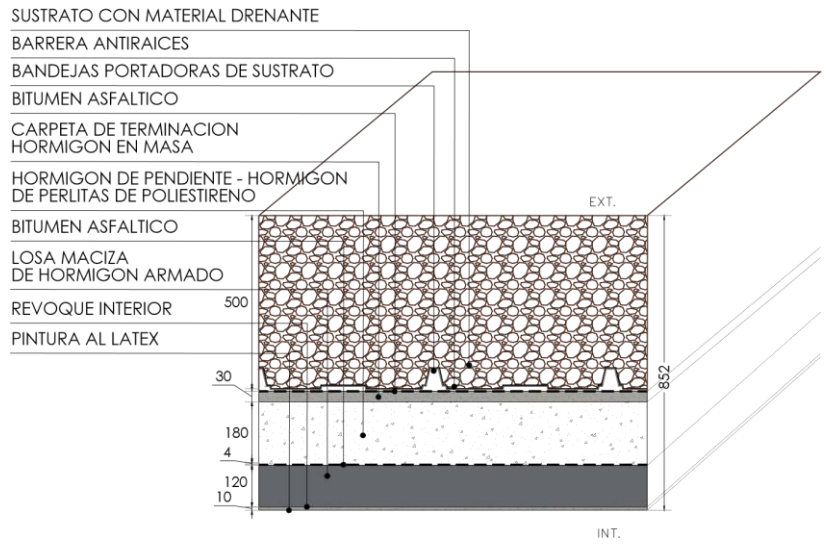

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,29 | 0% | 30,29 | 38,06 | 1,23 | 4569 | 335 |
| INC. FAMILIA | 49,47% | 0% | 102,10% | 92,58% | 63,04% | 100,70% | 70,64% |
| INC. MUNDIAL | 35,80% | 0% | 101,99% | 85,57% | 29,90% | 100,18% | 53,03% |

| CAJ-017 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 50CM- HUMEDAD 50%.

## INDICE DE TRANSMITANCIA TERMICA "K"

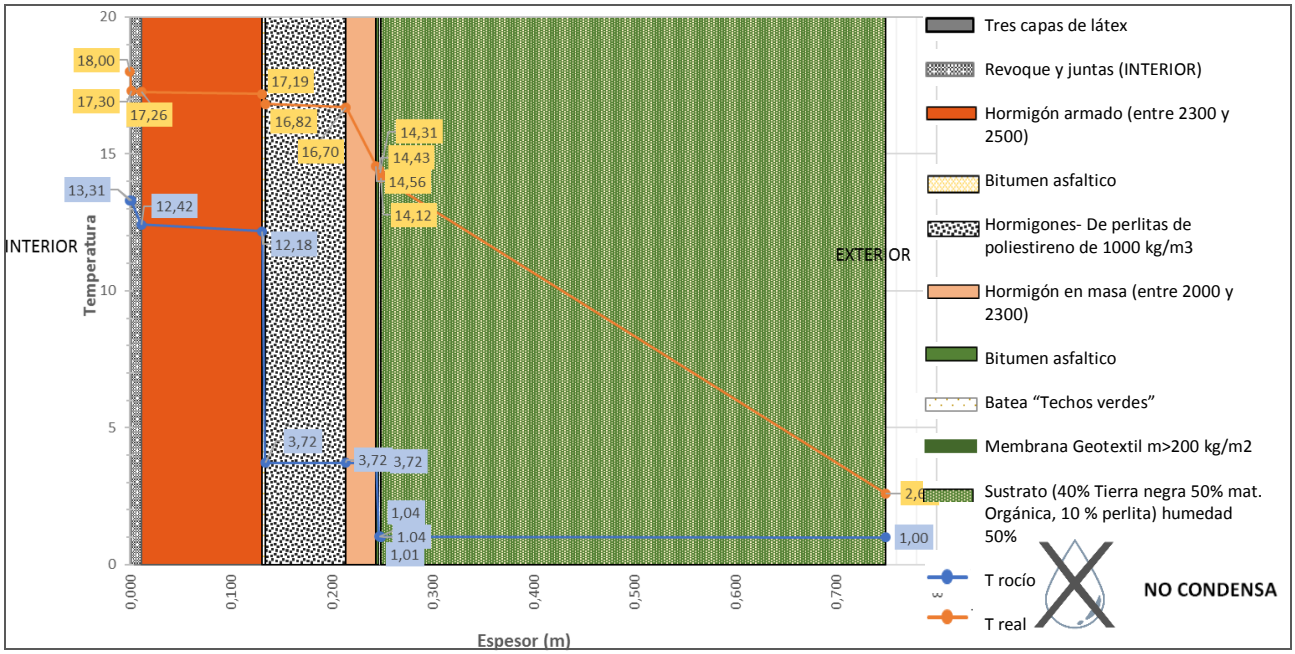
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,44 | 0,45 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



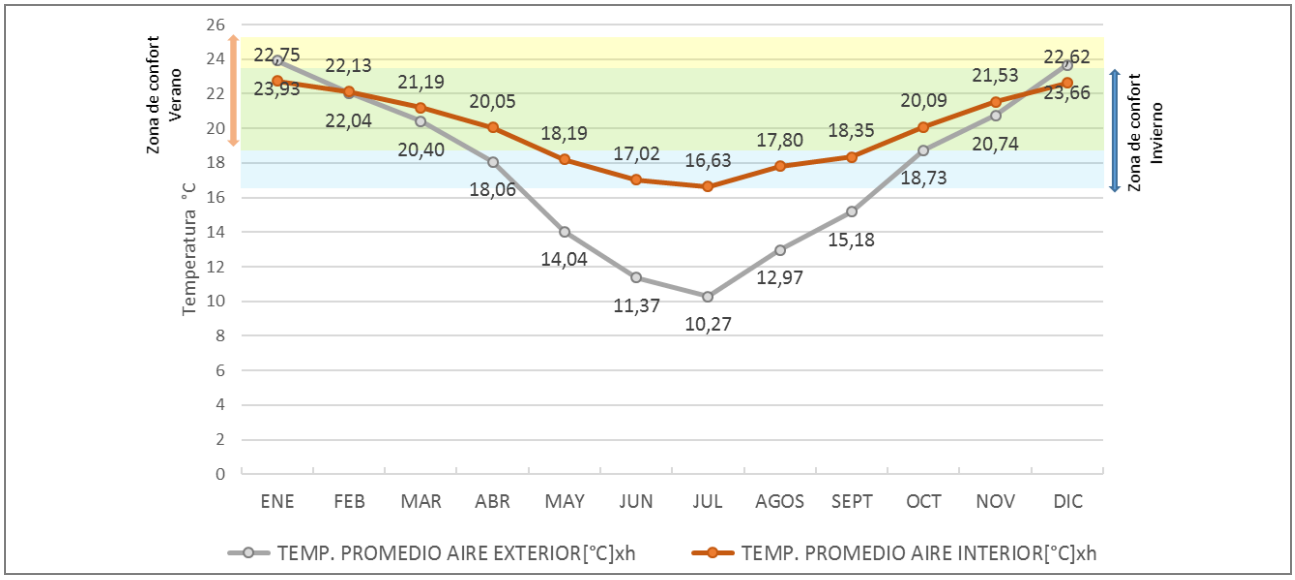

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 132,2 | 57,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **33,0** | **21,7** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **21,3** | **25,2** |
| | **Amortiguamiento:** | 0,004 | 0,001 |

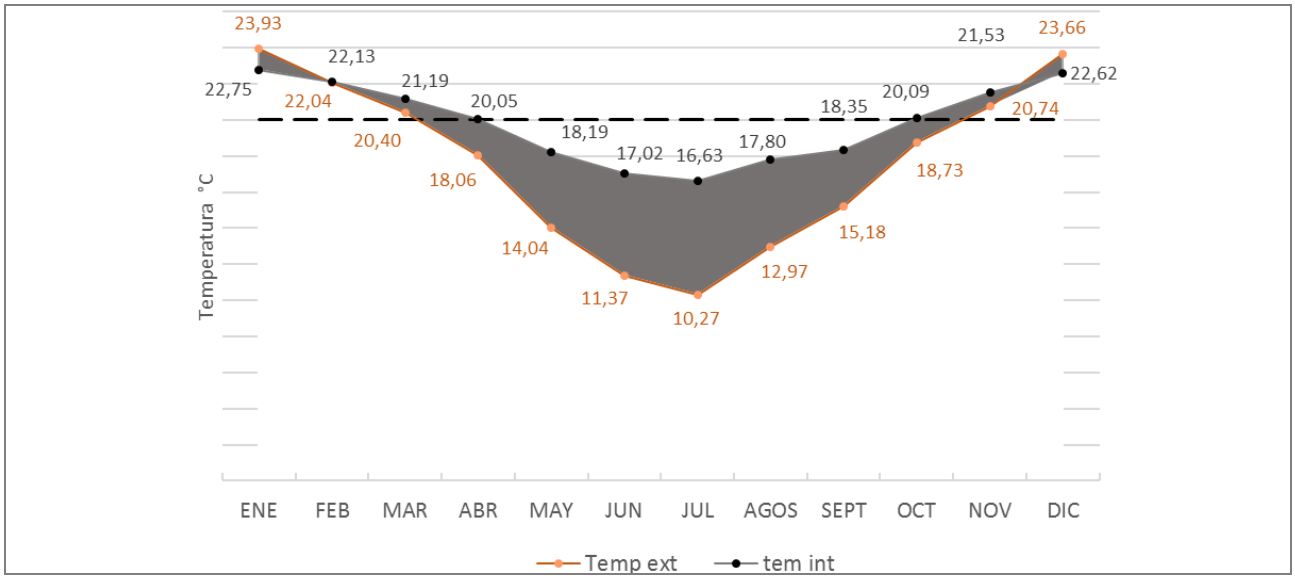
| CAJ-017 | CU | CUBIERTA AJARDINADA |
|---|---|---|

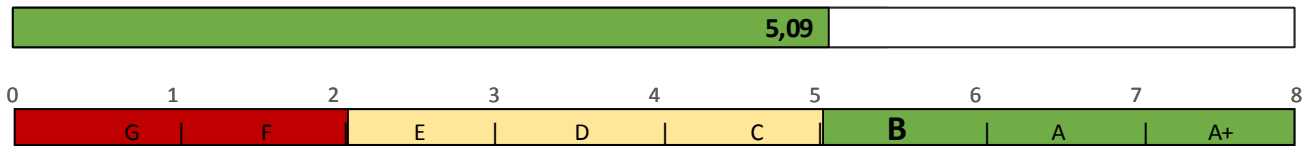
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,30** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,65** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



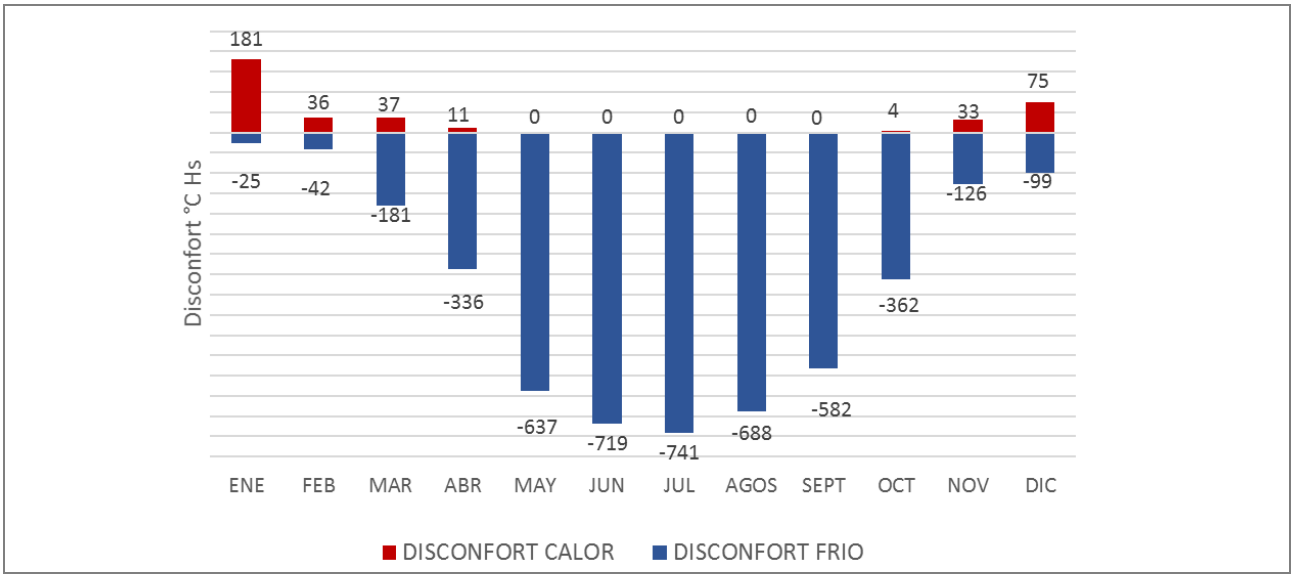




5,09 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| CAJ-017 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

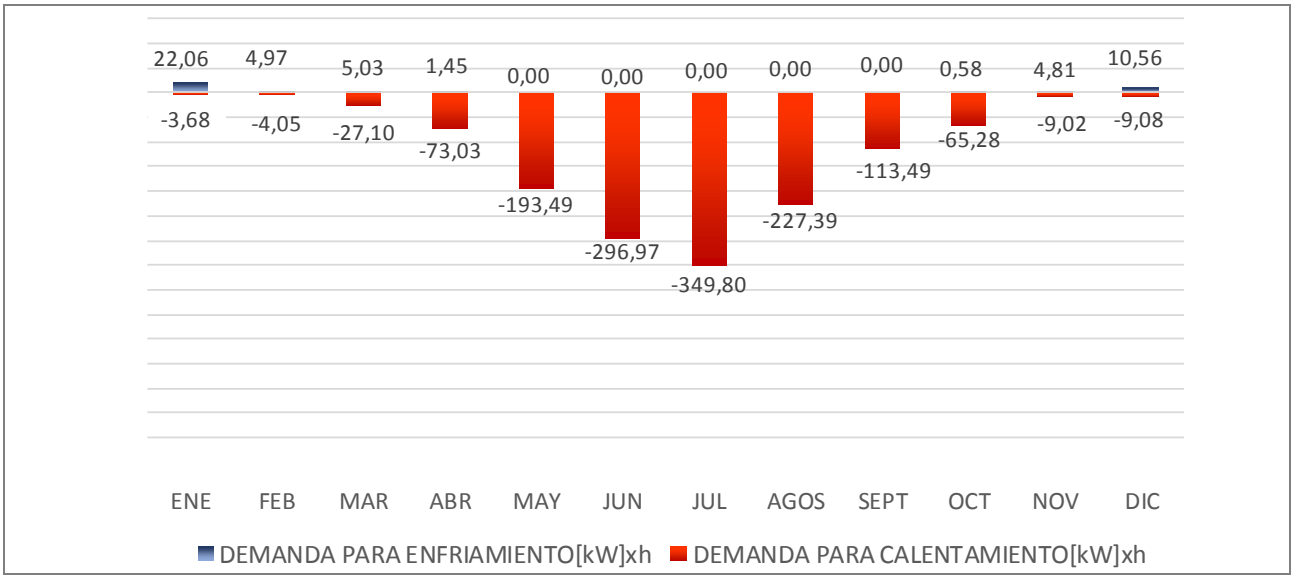
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **378** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.539** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.917** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

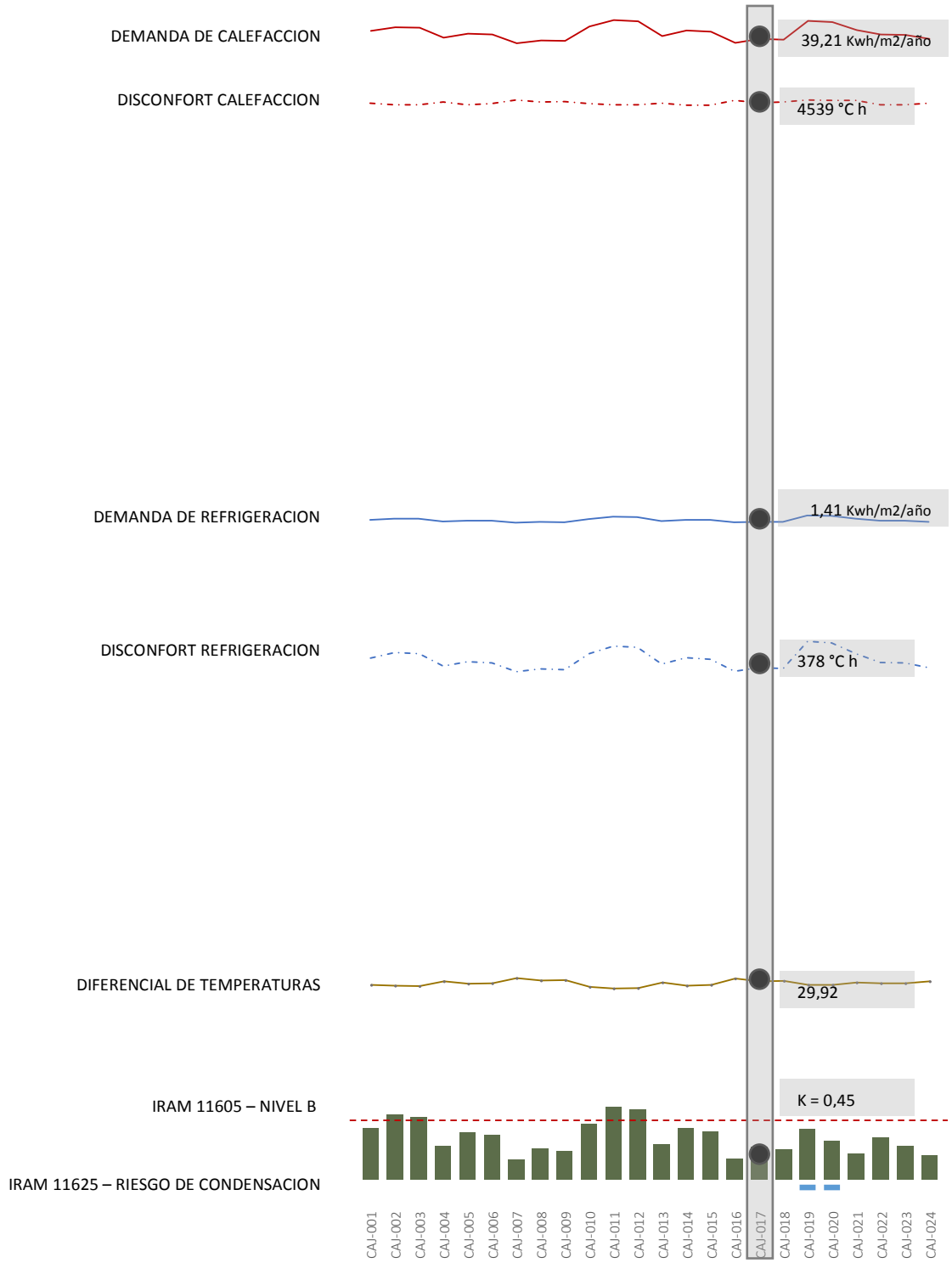



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **49,46** | kWh | 1,41 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.372,38** | kWh | 39,21 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.421,84** | kWh | **40,62** | kWh/m2/año |

| CAJ-017 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 052 | N° 048 | N° 010 | N° 009 | N° 027 | N° 009 |



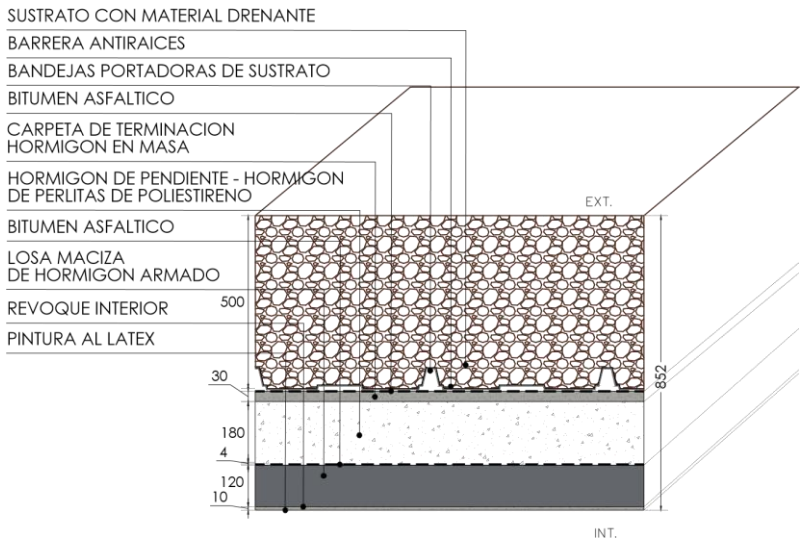

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,45 | 0% | 29,92 | 39,21 | 1,41 | 4539 | 378 |
| INC. FAMILIA | 76,76% | 0% | 100,86% | 95,37% | 72,26% | 100,04% | 79,71% |
| INC. MUNDIAL | 55,56% | 0% | 100,74% | 88,16% | 34,28% | 99,52% | 59,84% |

| CAJ-018 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA CON BANDEJAS- SUSTRATO. 50CM- HUMEDAD 100%.

## INDICE DE TRANSMITANCIA TERMICA "K"

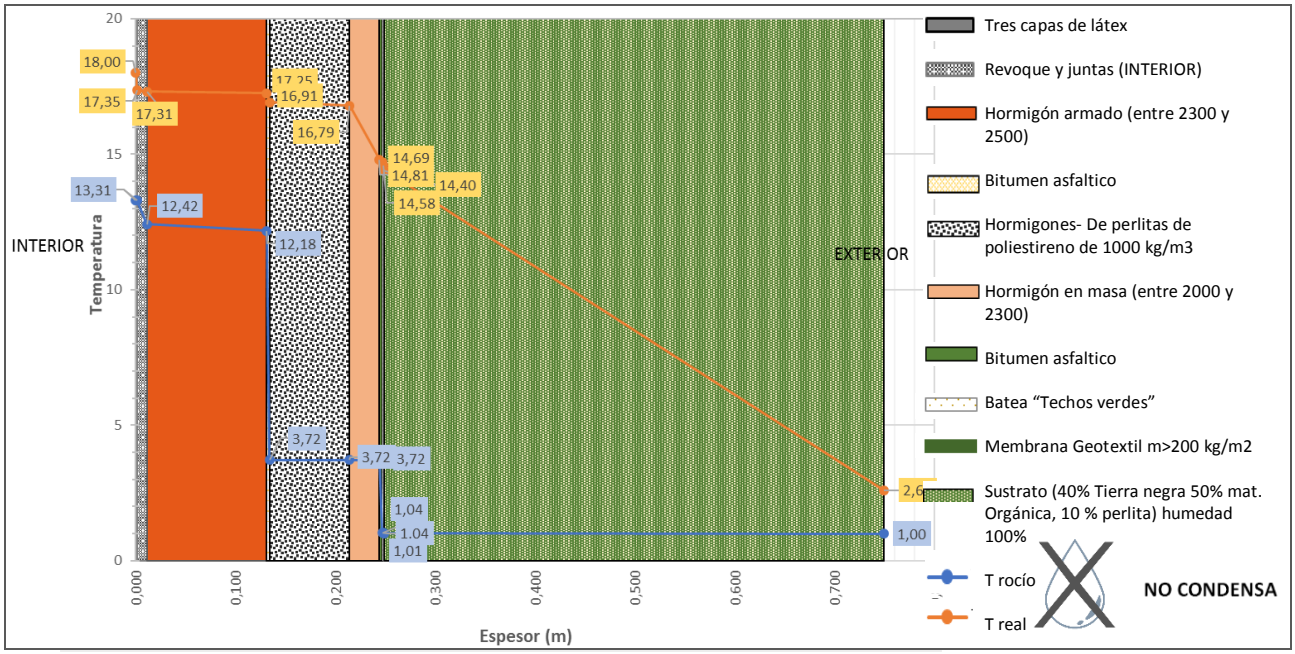
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,41 | 0,42 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



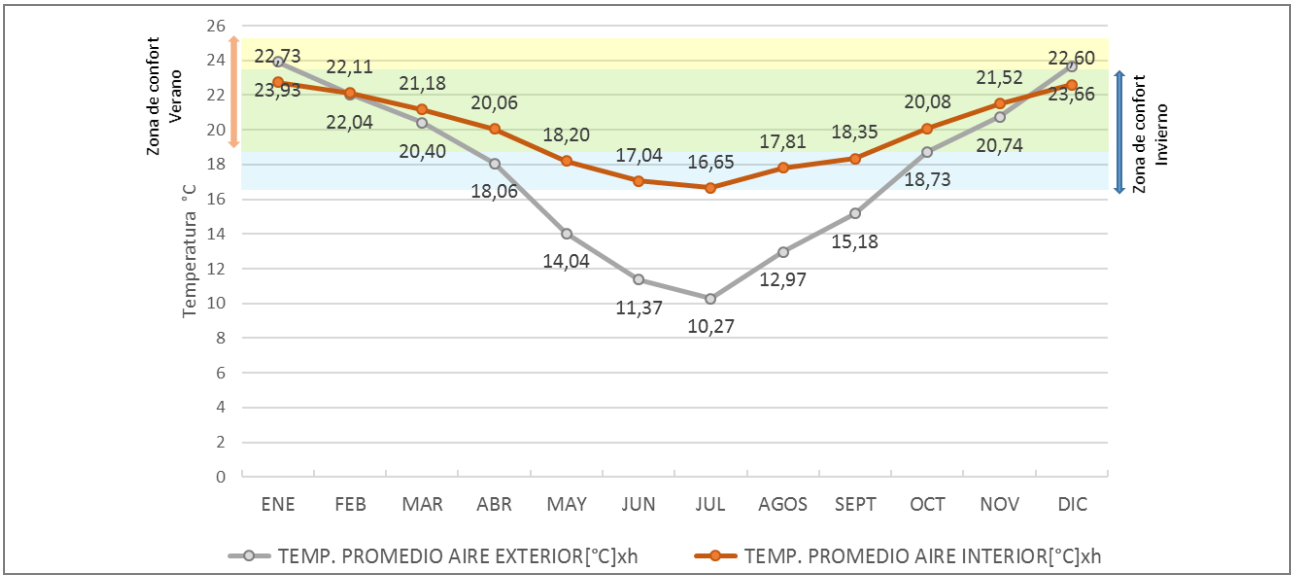

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 52,7 | 52,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **22,5** | **22,5** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,1** | **21,0** |
| | **Amortiguamiento:** | 0,122 | 0,004 |

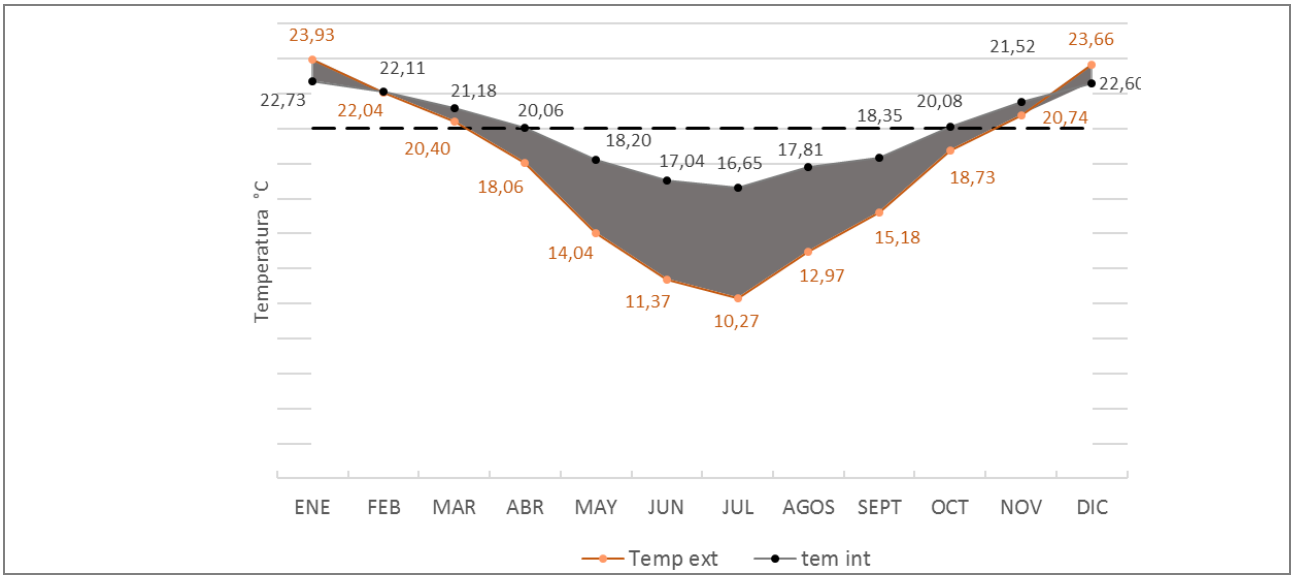
| CAJ-018 | CU | CUBIERTA AJARDINADA |
|---|---|---|

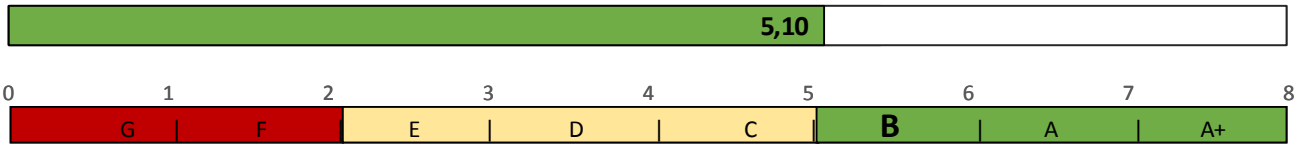
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,27** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,68** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



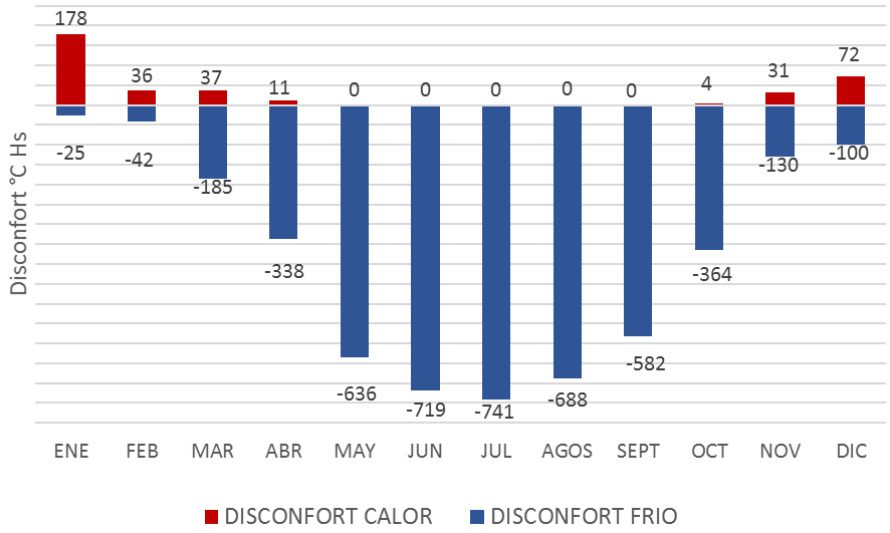




5.10 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.64

| CAJ-018 | CU | CUBIERTA AJARDINADA |
|---|---|---|

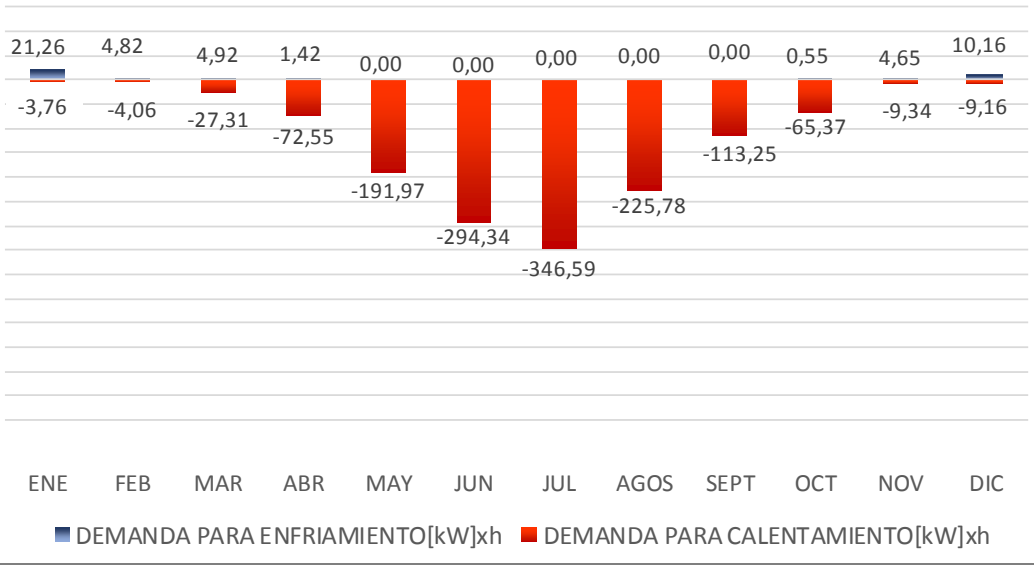
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **368** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.549** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.917** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

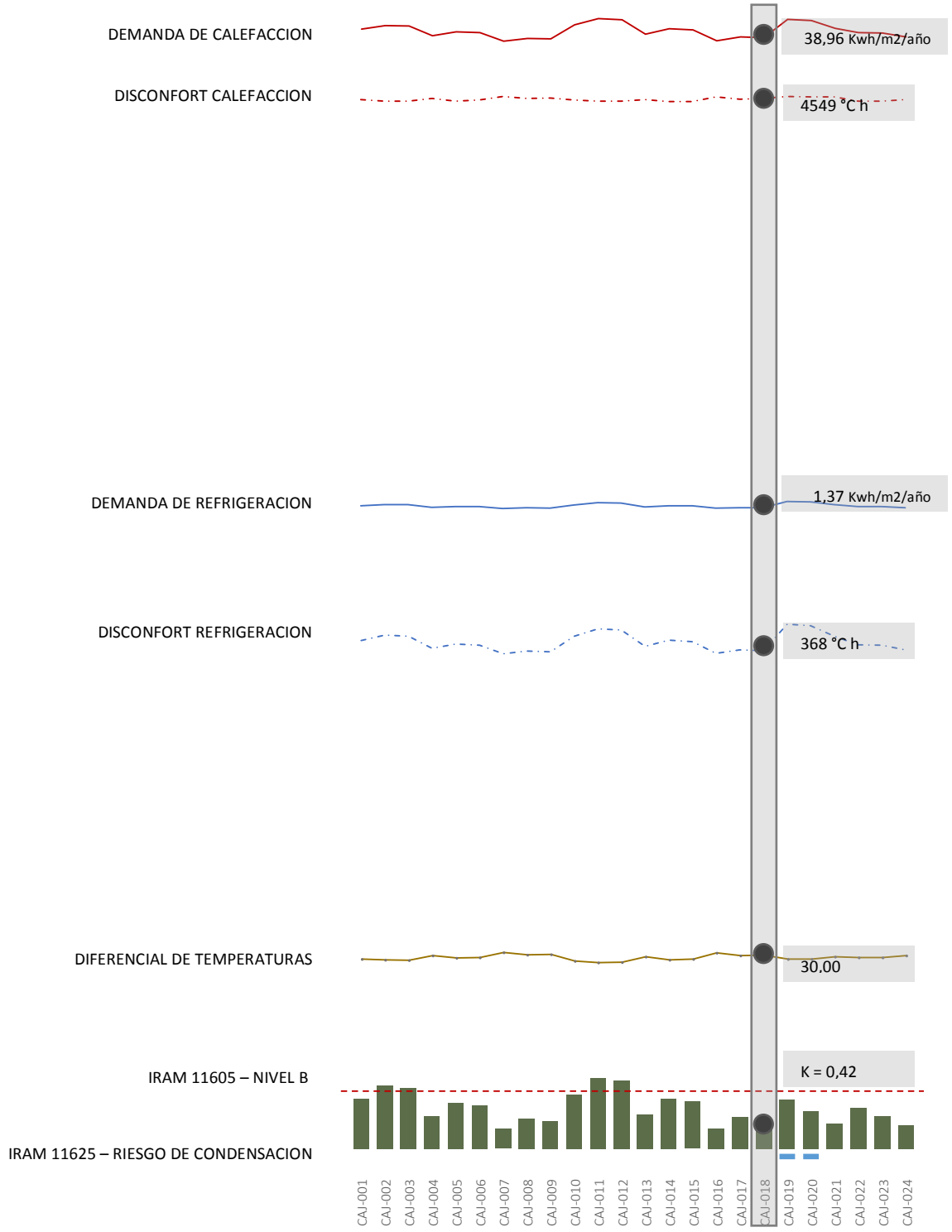



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **47,78** | kWh | 1,37 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.363,47** | kWh | 38,96 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.411,25** | kWh | **40,32** | kWh/m2/año |

| CAJ-018 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 045 | N° 040 | N° 009 | N° 008 | N° 036 | N° 008 |



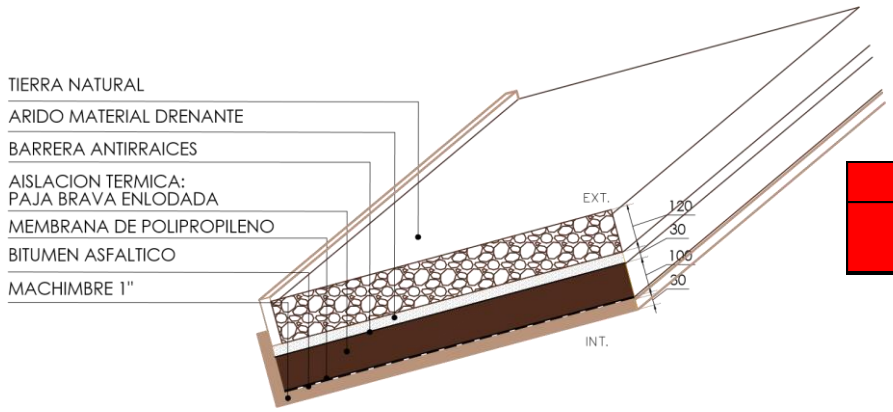

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,42 | 0% | 30,00 | 38,96 | 1,37 | 4549 | 368 |
| INC. FAMILIA | 71,64% | 0% | 101,13% | 94,76% | 70,21% | 100,26% | 77,60% |
| INC. MUNDIAL | 51,85% | 0% | 101,01% | 87,59% | 33,31% | 99,74% | 58,26% |

| CAJ-019 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA BIOCONSTRUCCION - SUSTRATO 12 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

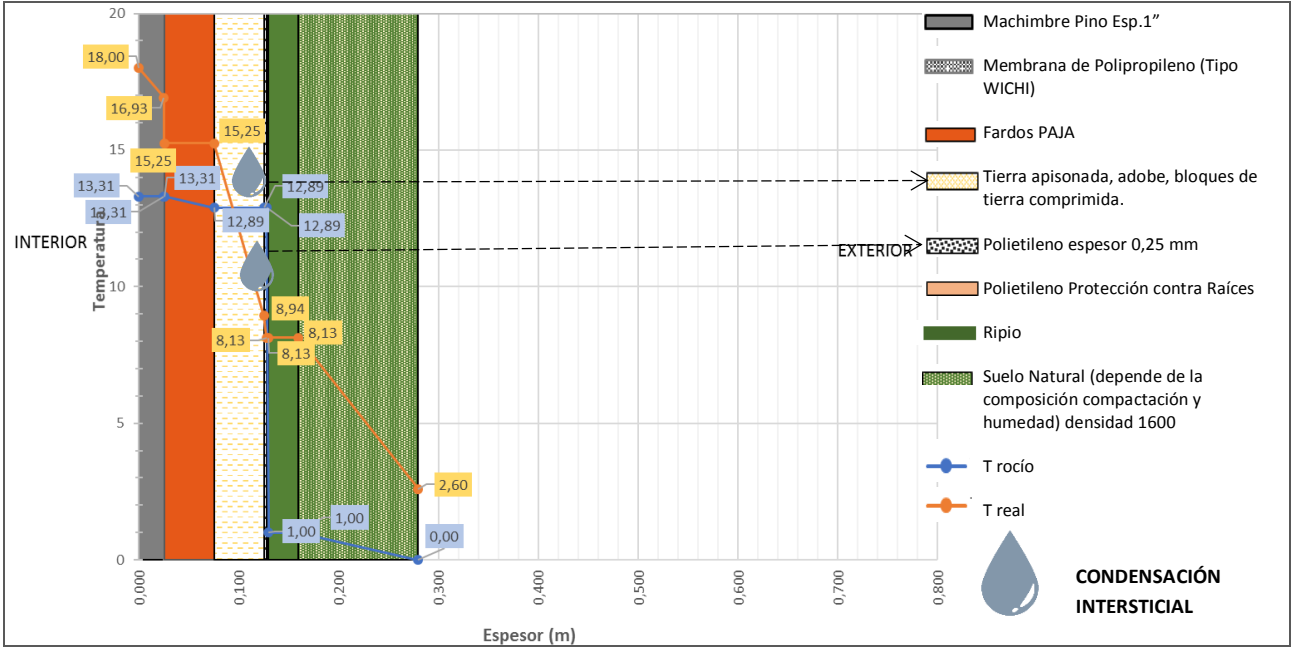
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,66 | 0,70 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



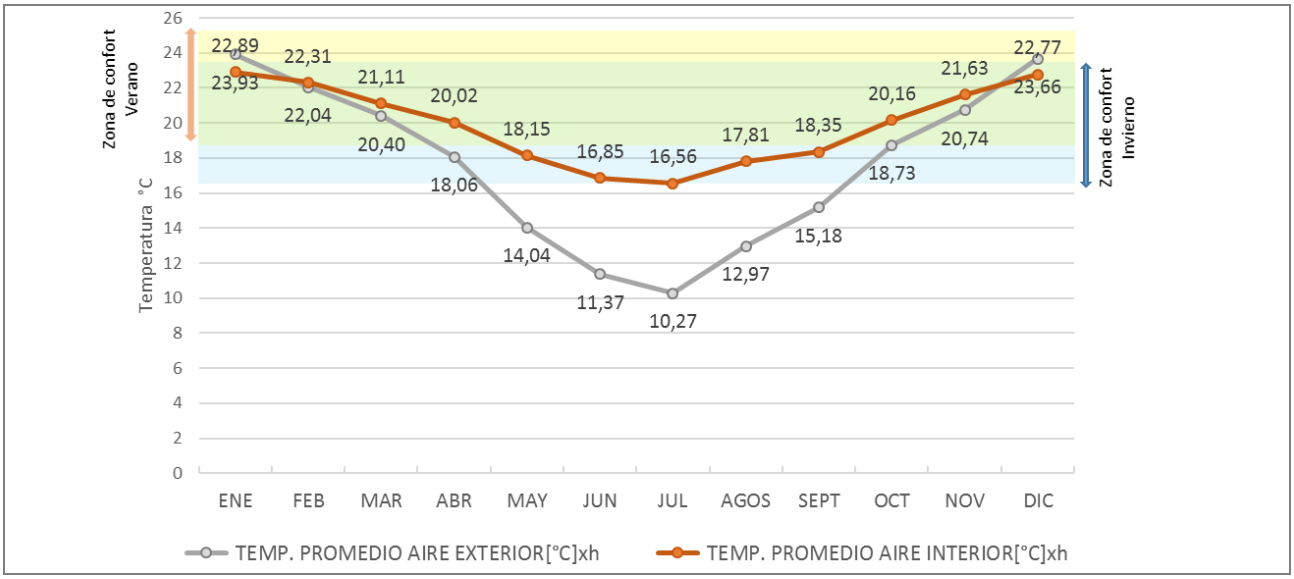

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 59,3 | 24,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **13,8** | **8,9** |
| | **Amortiguamiento:** | 0,006 | 0,037 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,2** | **8,0** |
| | **Amortiguamiento:** | 0,041 | 0,123 |

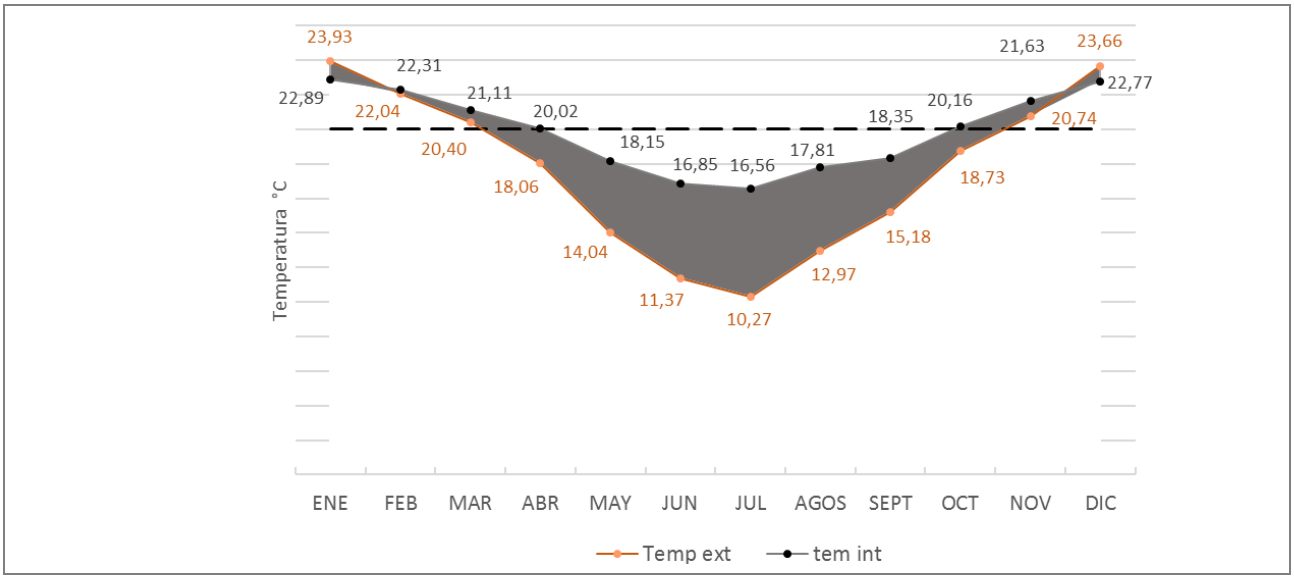
| CAJ-019 | CU | CUBIERTA AJARDINADA |
|---|---|---|

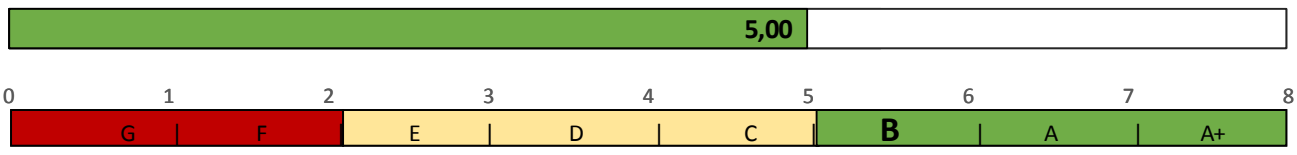
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,47** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,89** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



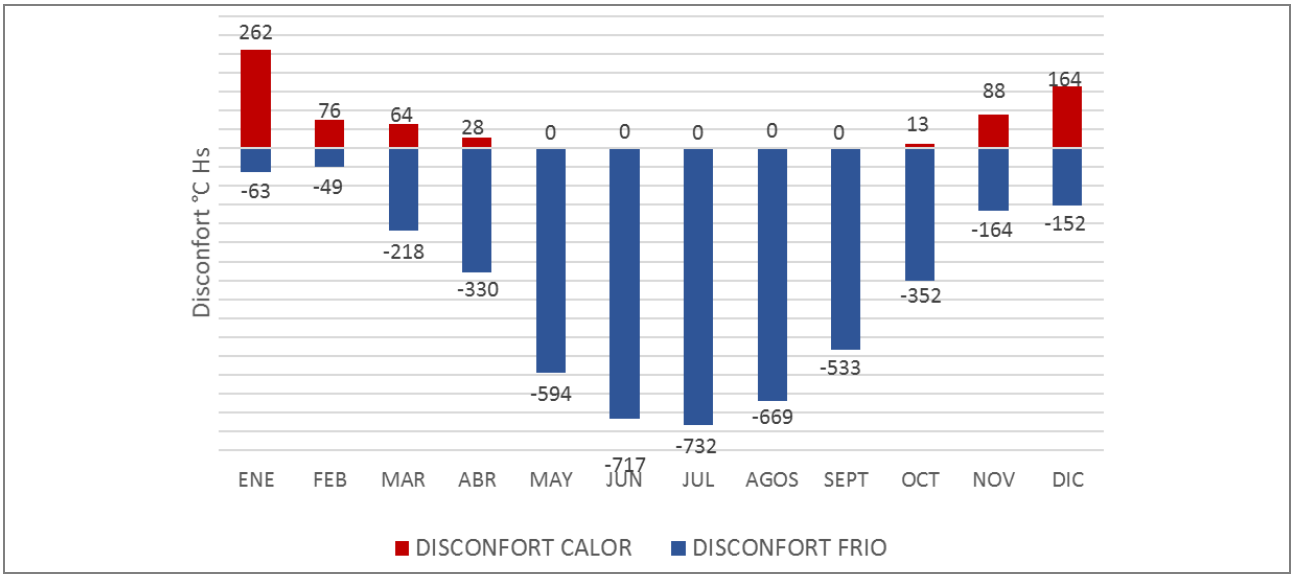




5,00 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| CAJ-019 | CU | CUBIERTA AJARDINADA |
|---|---|---|

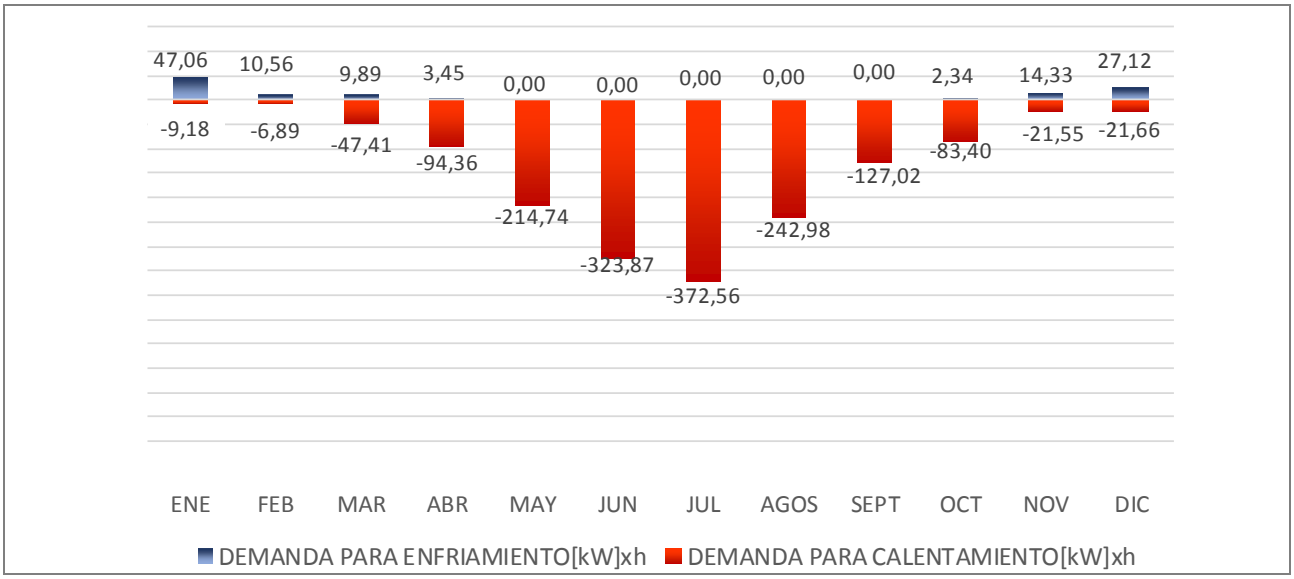
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **695** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.573** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.268** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

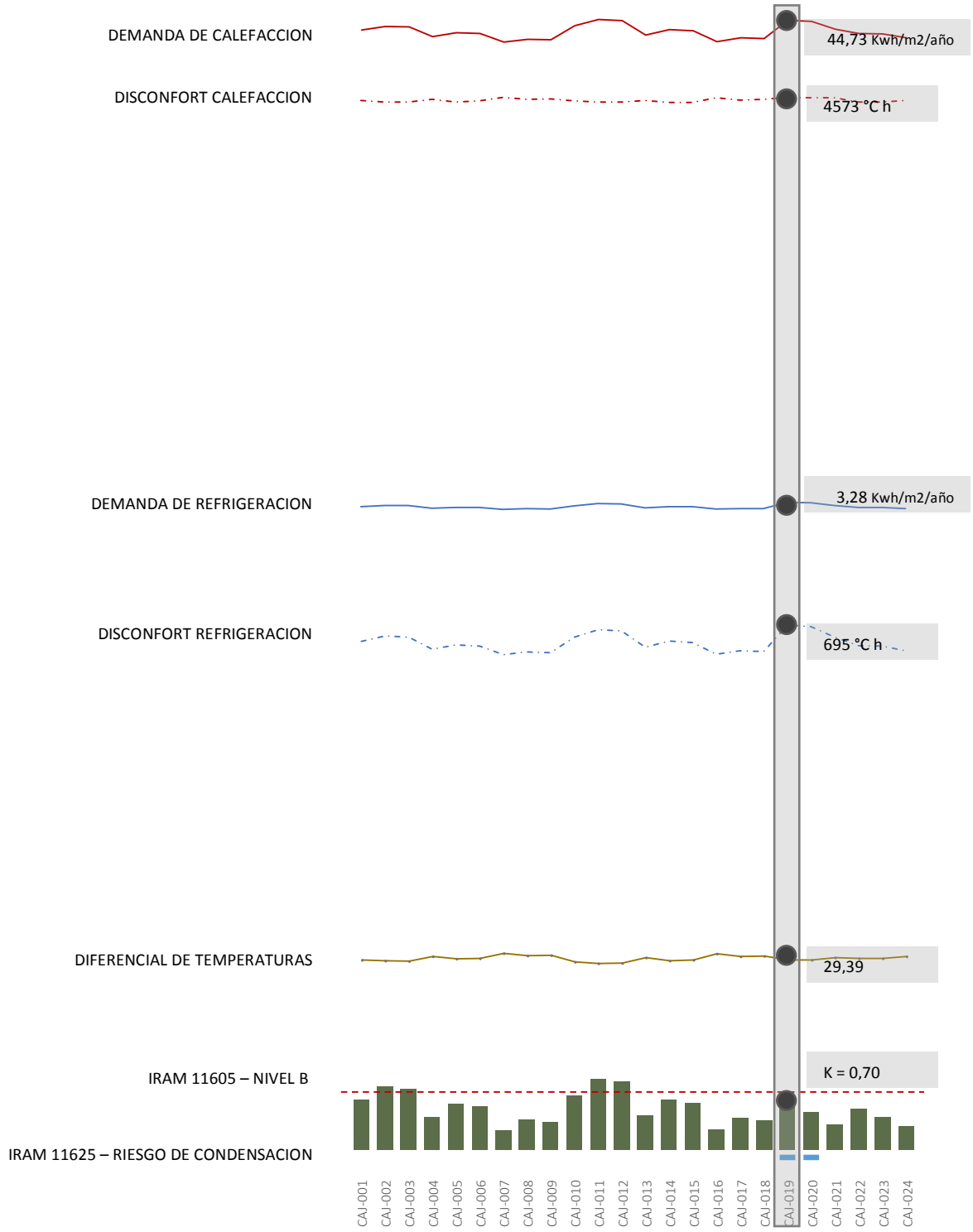



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **114,75** | kWh | 3,28 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.565,62** | kWh | 44,73 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.680,38** | kWh | **48,01** | kWh/m2/año |

| CAJ-019 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 082 | N° 082 | N° 090 | N° 088 | N° 064 | N° 099 |



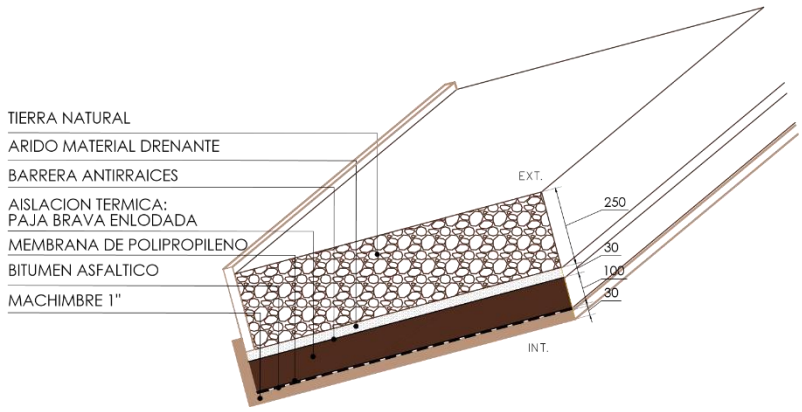

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,7 | 100% | 29,39 | 44,73 | 3,28 | 4573 | 695 |
| INC. FAMILIA | 119,40% | 0% | 99,07% | 108,80% | 168,10% | 100,79% | 146,56% |
| INC. MUNDIAL | 86,42% | 208% | 98,96% | 100,57% | 79,74% | 100,26% | 110,03% |

| CAJ-020 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA BIOCONSTRUCCION - SUSTRATO 25 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

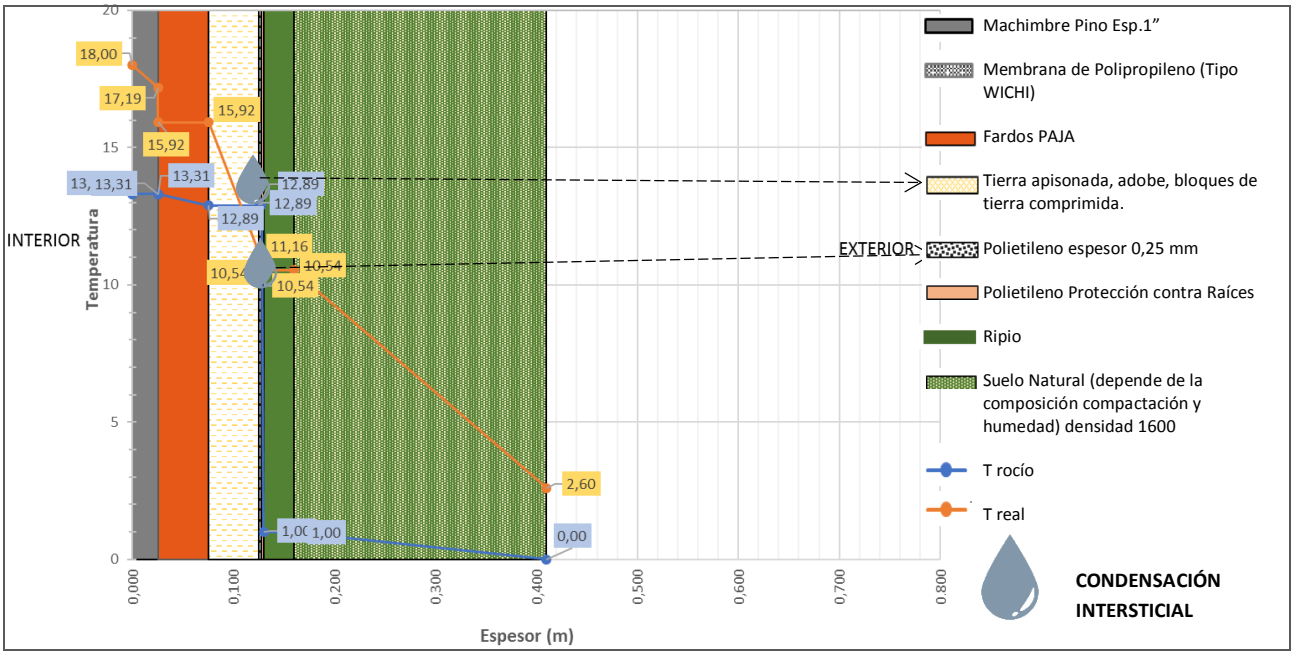
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,51 | 0,53 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



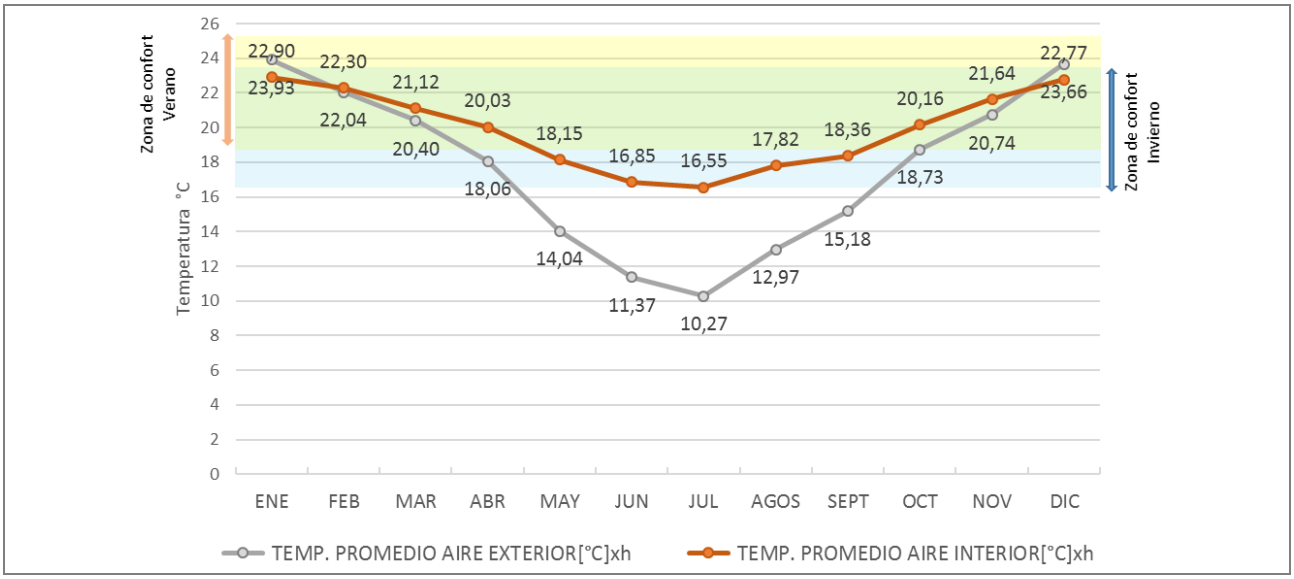

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 73,4 | 18,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **20,8** | **10,3** |
| | **Amortiguamiento:** | 0,000 | 0,022 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **17,6** | **12,5** |
| | **Amortiguamiento:** | 0,010 | 0,038 |

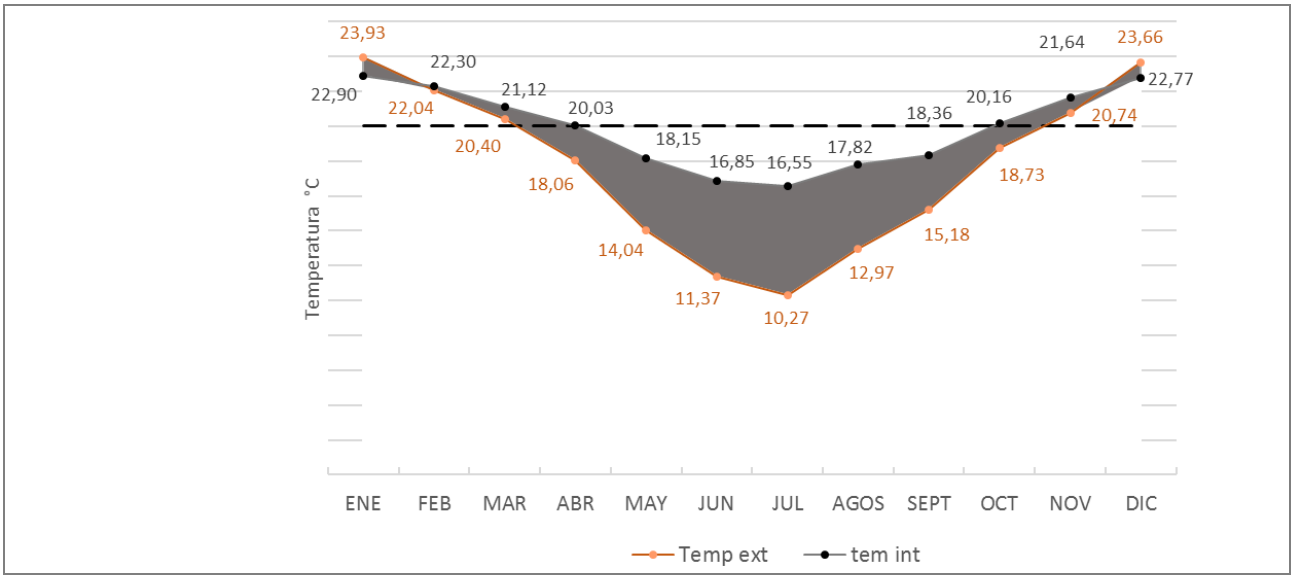
| CAJ-020 | CU | CUBIERTA AJARDINADA |
|---|---|---|

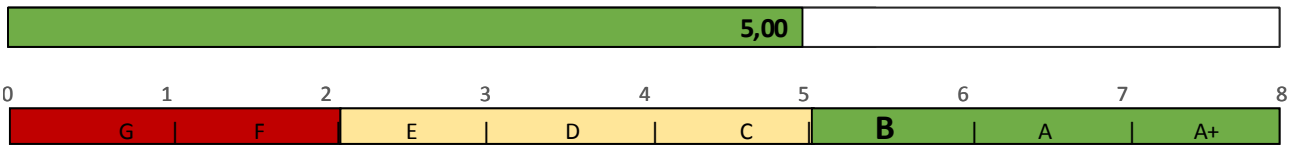
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,45** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,93** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



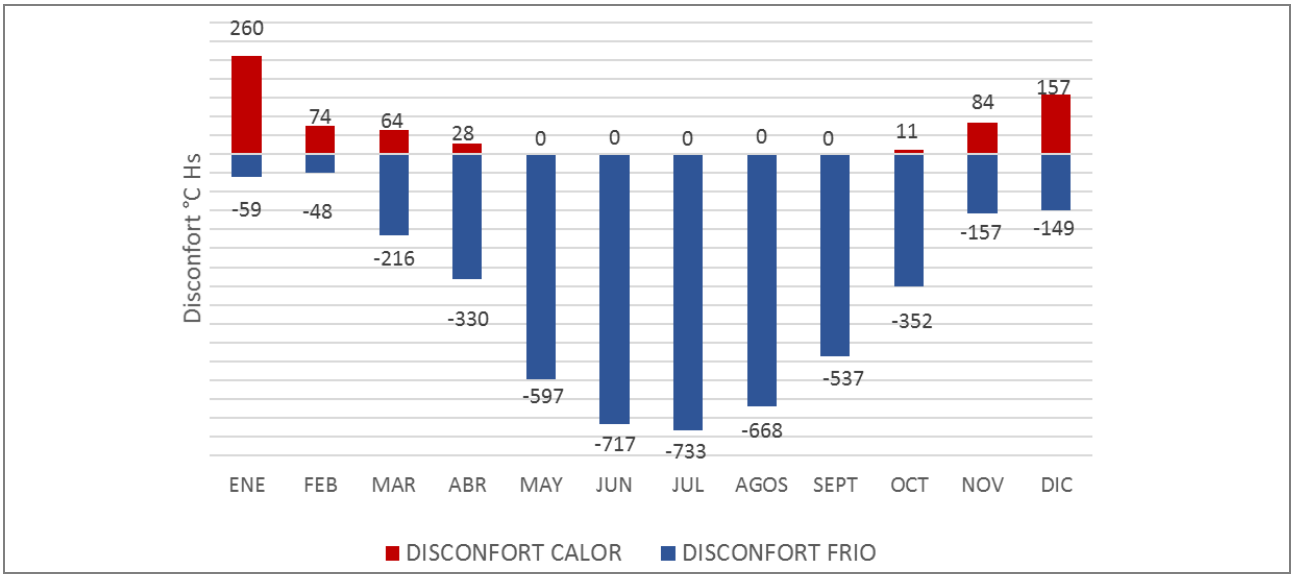




5,00 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| CAJ-020 | CU | CUBIERTA AJARDINADA |
|---|---|---|

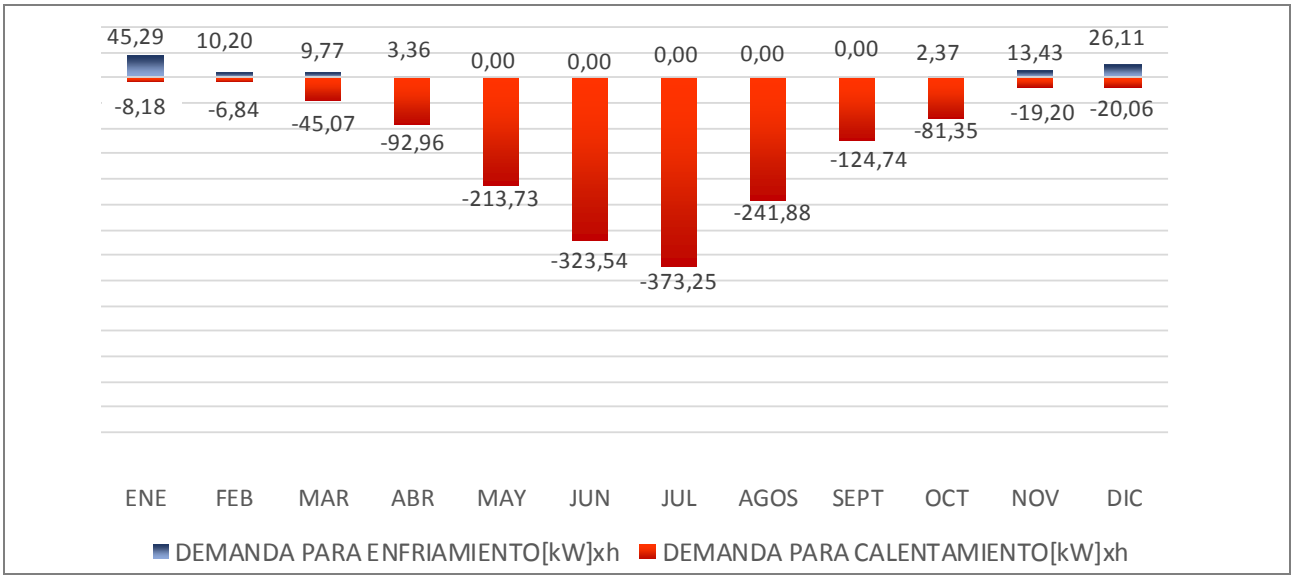
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **678** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.565** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.242** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

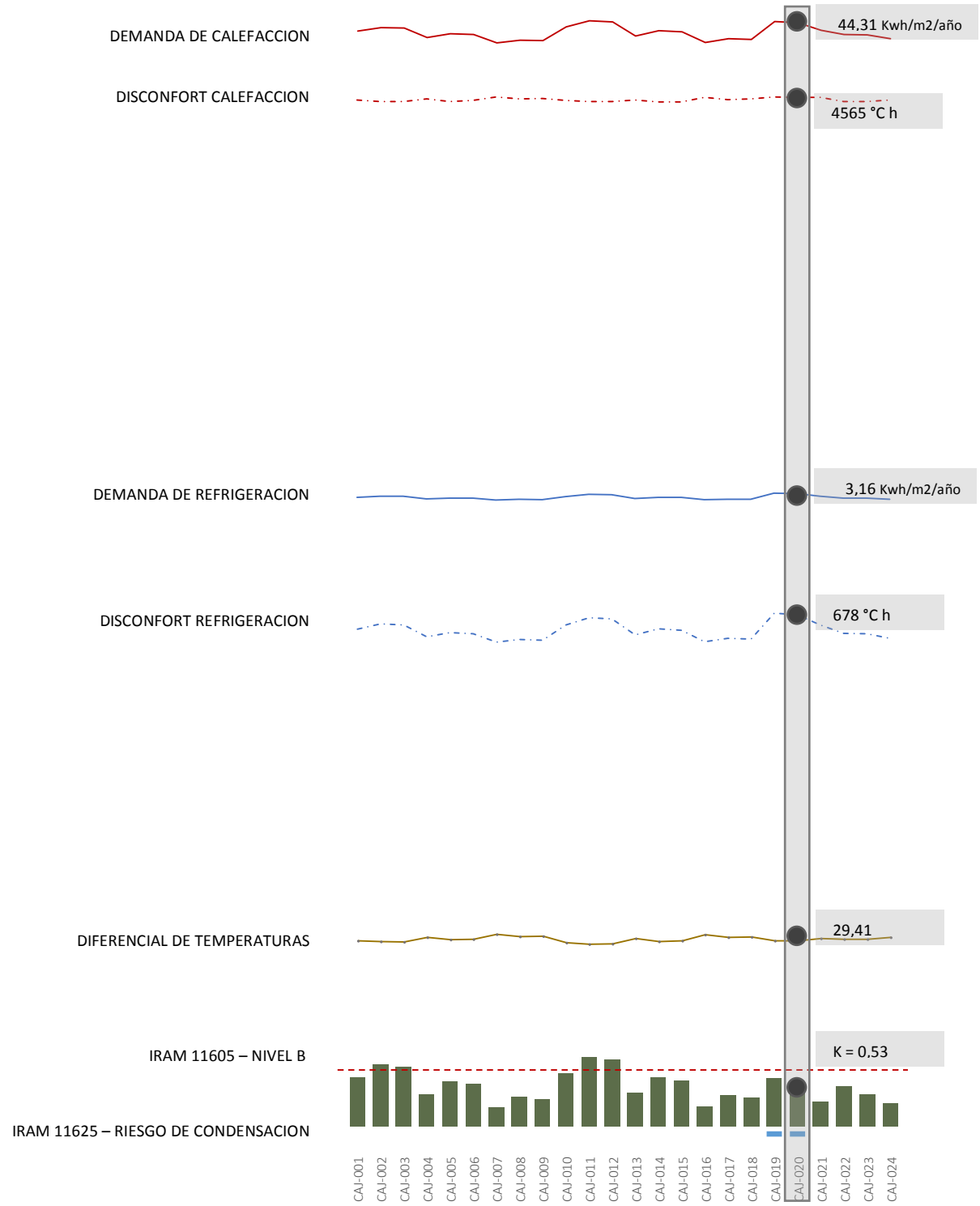



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **110,53** | kWh | 3,16 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.550,78** | kWh | 44,31 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.661,31** | kWh | **47,47** | kWh/m2/año |

| CAJ-020 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 064 | N° 080 | N° 084 | N° 086 | N° 053 | N° 094 |



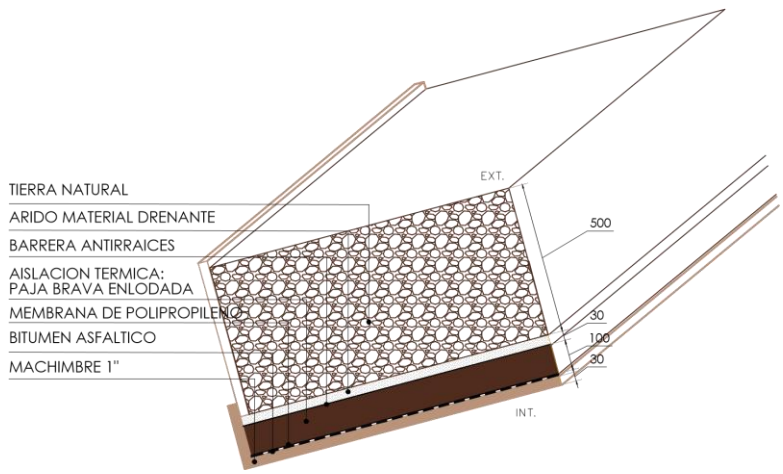

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,53 | 100% | 29,41 | 44,31 | 3,16 | 4565 | 678 |
| INC. FAMILIA | 90,41% | 0% | 99,14% | 107,78% | 161,95% | 100,61% | 142,98% |
| INC. MUNDIAL | 65,43% | 208% | 99,03% | 99,62% | 76,82% | 100,09% | 107,34% |

| CAJ-021 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA BIOCONSTRUCCION - SUSTRATO 50 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

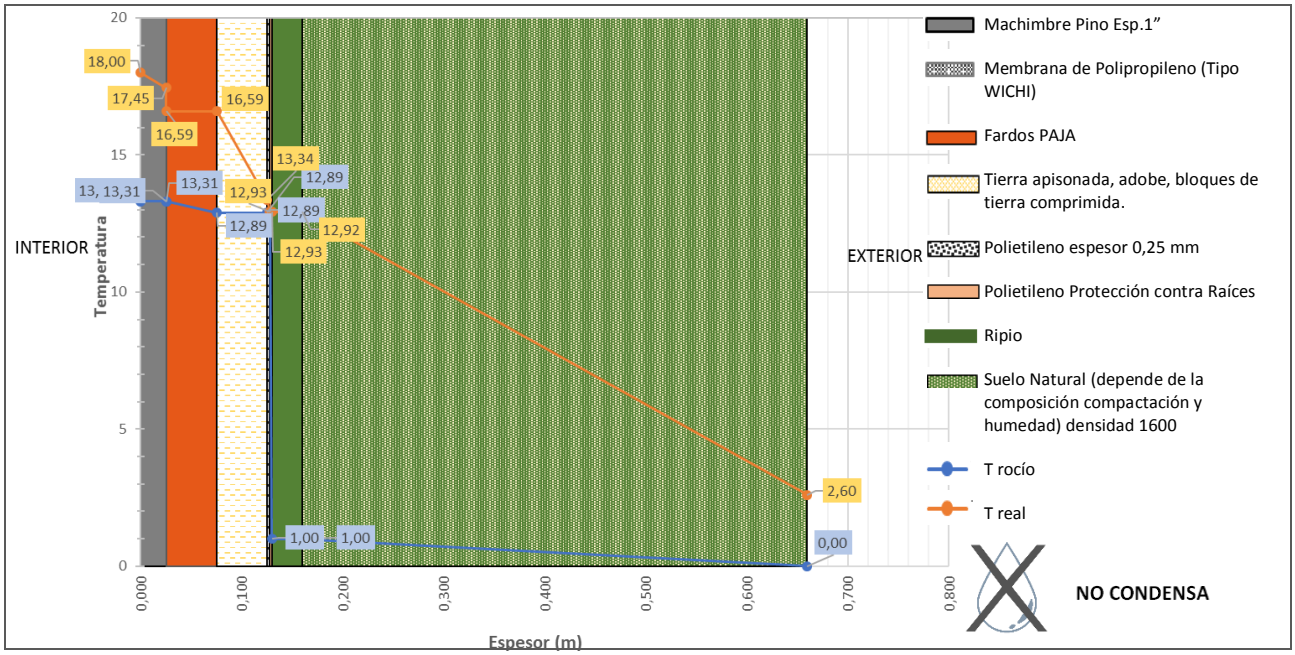
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,35 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



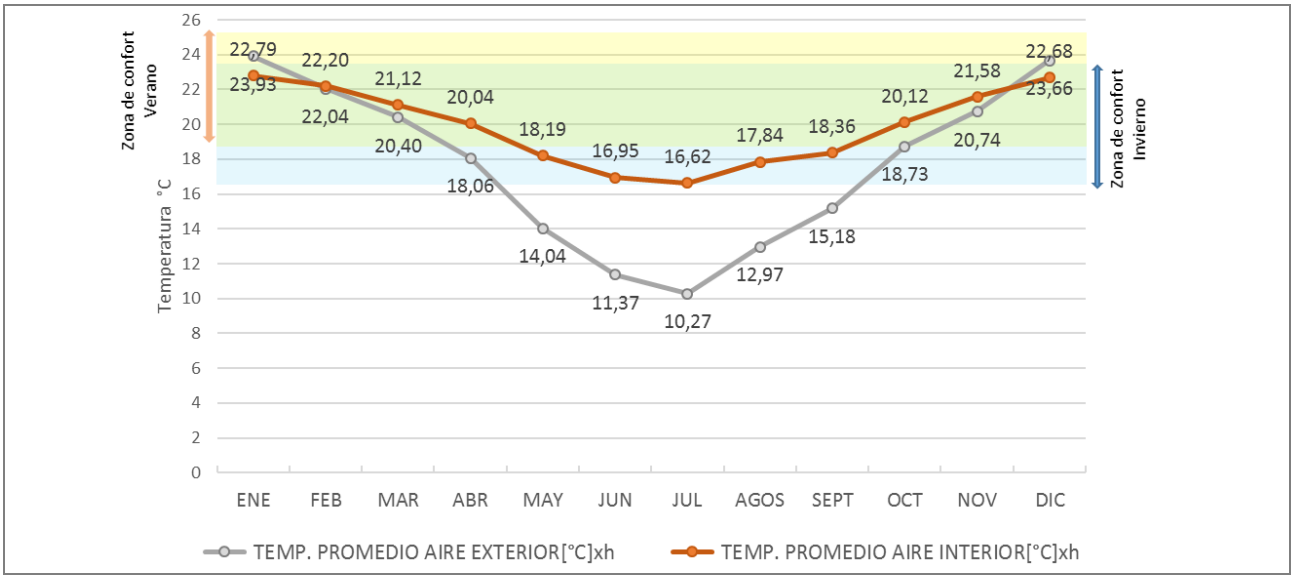

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 87,9 | 12,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **34,4** | **12,7** |
| | **Amortiguamiento:** | 0,000 | 0,009 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **27,2** | **21,3** |
| | **Amortiguamiento:** | 0,001 | 0,004 |

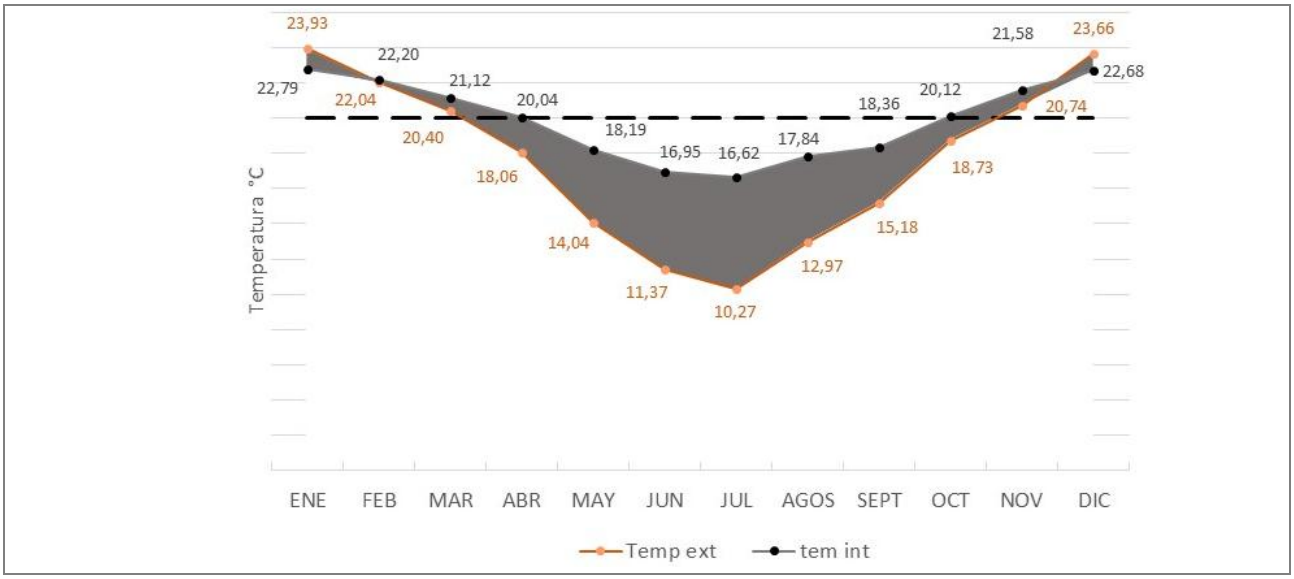
| CAJ-021 | CU | CUBIERTA AJARDINADA |
|---|---|---|

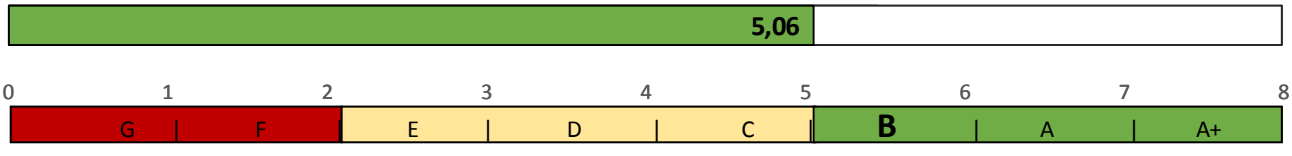
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,01** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,23** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



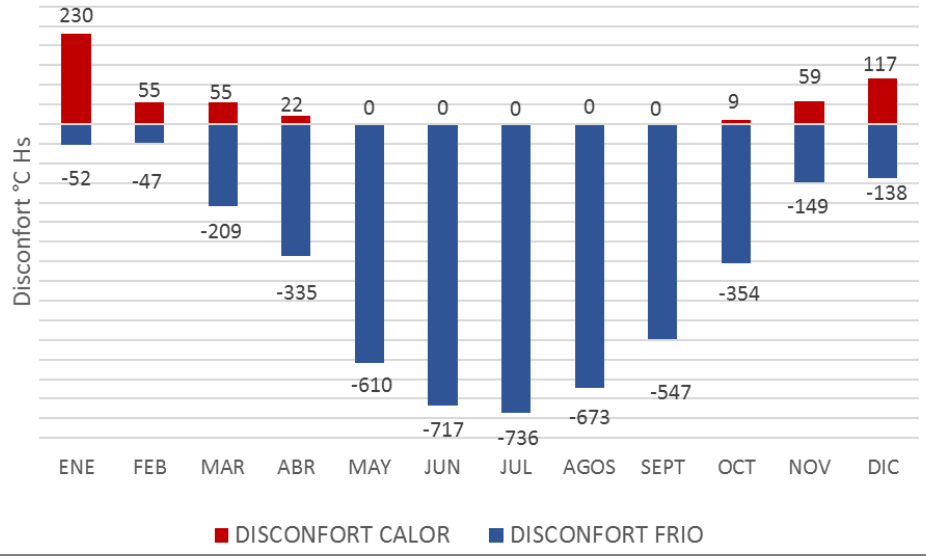




5,06 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| CAJ-021 | CU | CUBIERTA AJARDINADA |
|---|---|---|

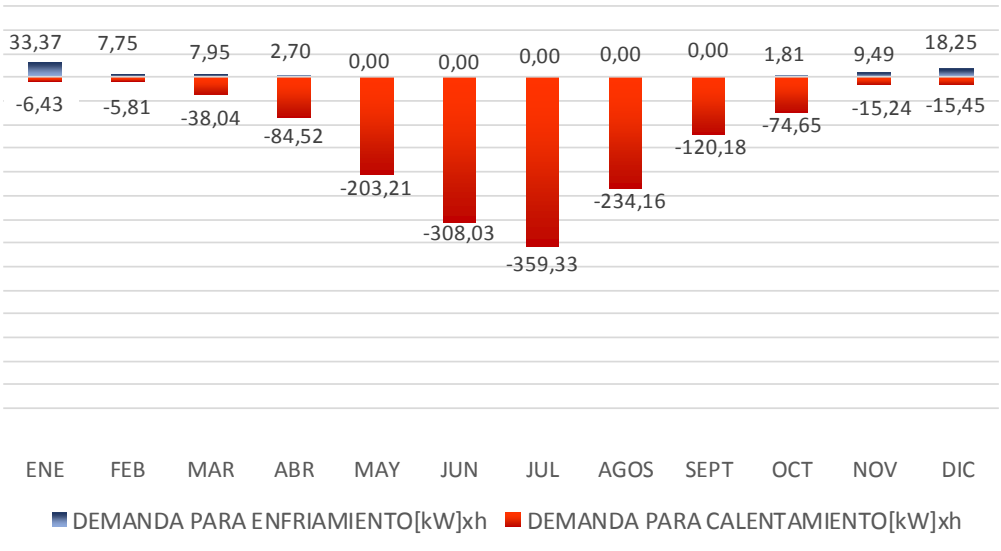
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **547** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.567** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.114** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

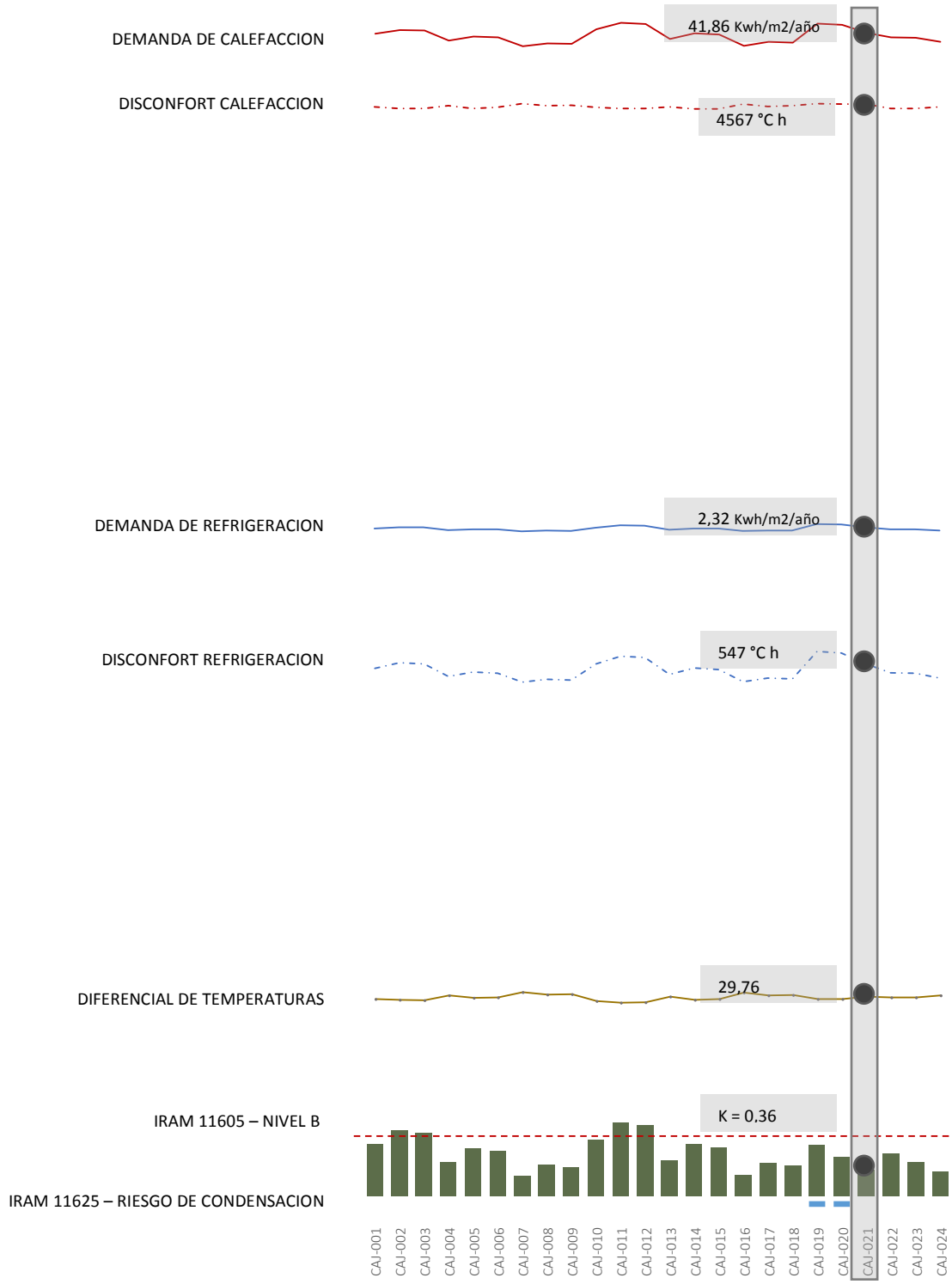



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **81,32** | kWh | 2,32 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.465,04** | kWh | 41,86 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.546,36** | kWh | **44,18** | kWh/m2/año |

| CAJ-021 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 035 | N° 063 | N° 048 | N° 052 | N° 054 | N° 051 |



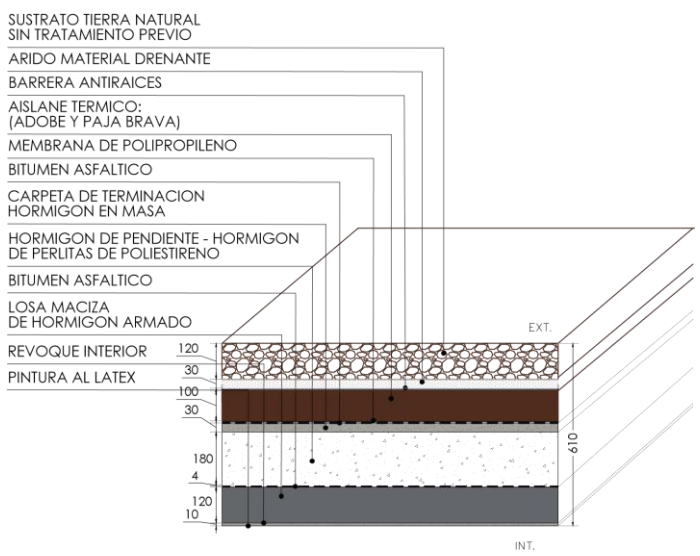

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,36 | 0% | 29,76 | 41,86 | 2,32 | 4567 | 547 |
| INC. FAMILIA | 61,41% | 0% | 100,32% | 101,82% | 118,90% | 100,66% | 115,35% |
| INC. MUNDIAL | 44,44% | 0% | 100,20% | 94,11% | 56,40% | 100,13% | 86,60% |

| CAJ-022 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA (LOSA MACIZA DE H°A° + BIOCONSTRUCCION) SUSTRATO 12 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

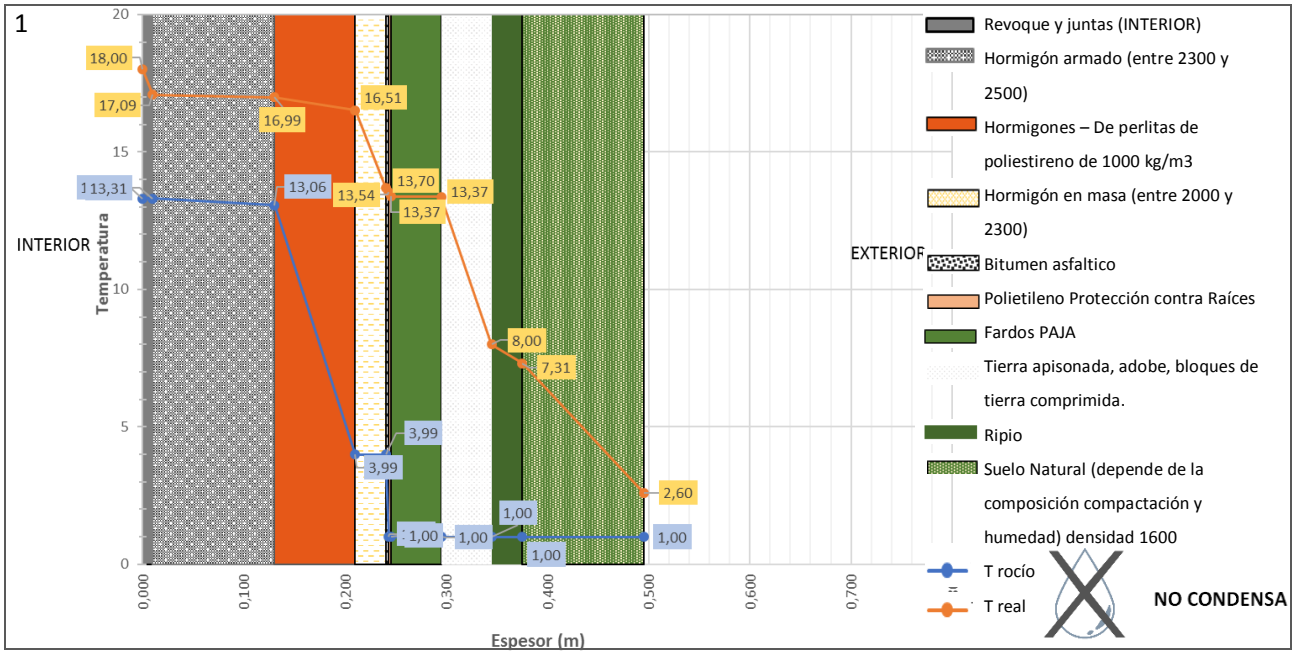
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,57 | 0,59 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



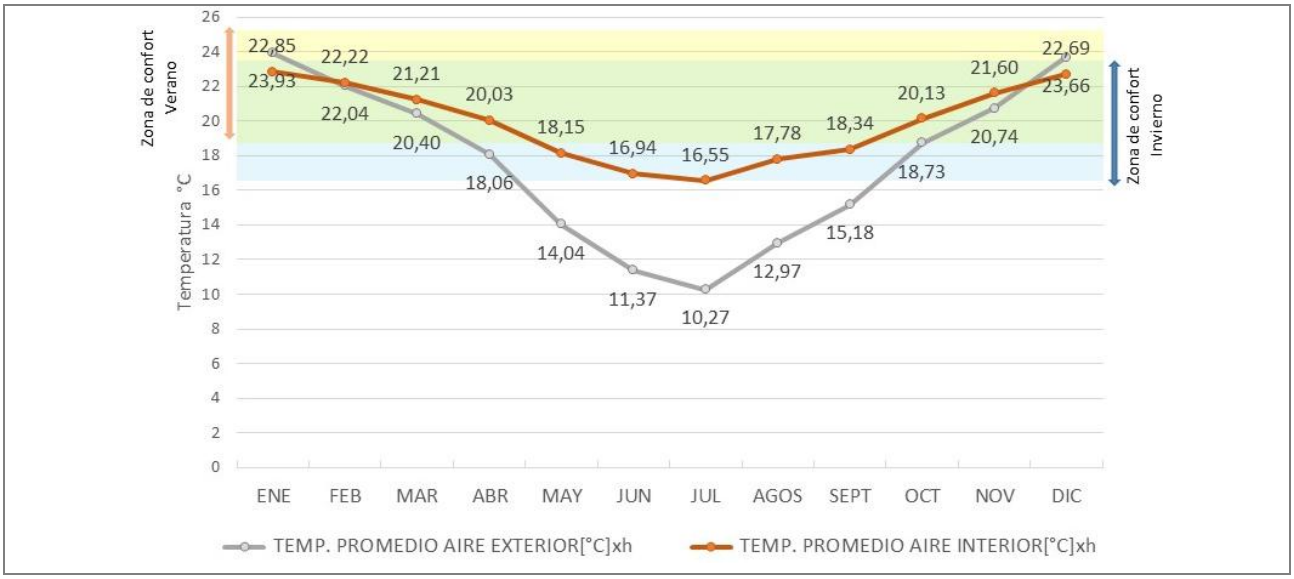

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 122,0 | 92,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **23,6** | **20,5** |
| | **Amortiguamiento:** | 0,000 | 0,001 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **15,5** | **18,6** |
| | **Amortiguamiento:** | 0,017 | 0,008 |

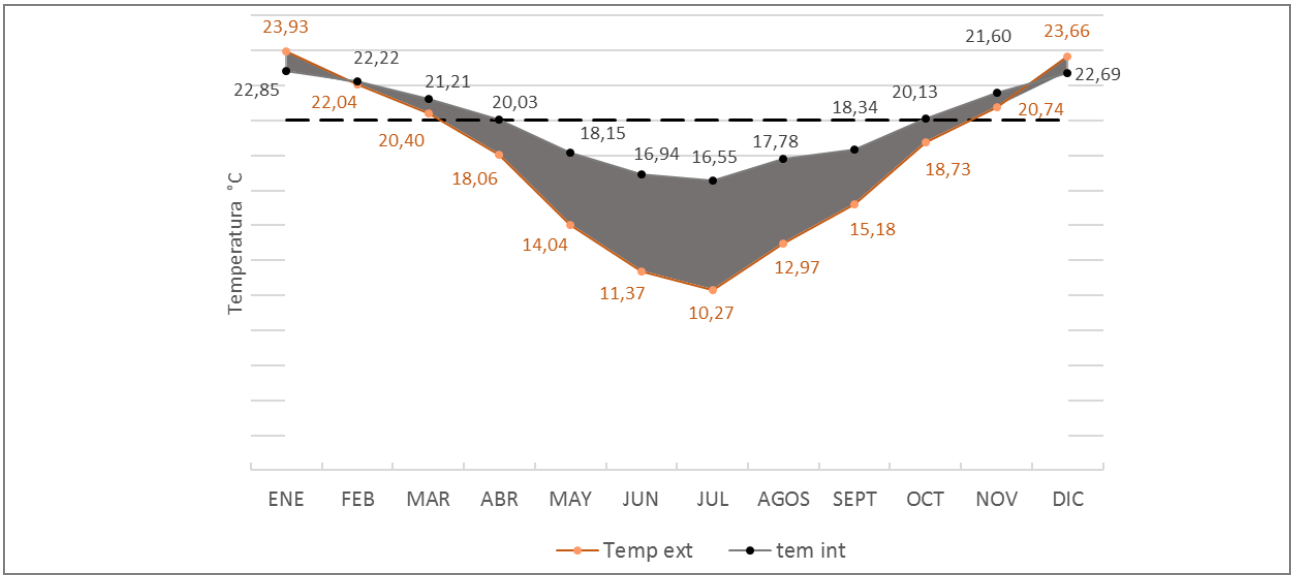
| CAJ-022 | CU | CUBIERTA AJARDINADA |
|---|---|---|

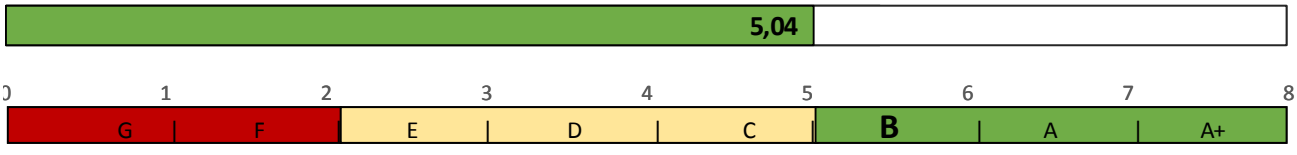
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,63** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,44** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



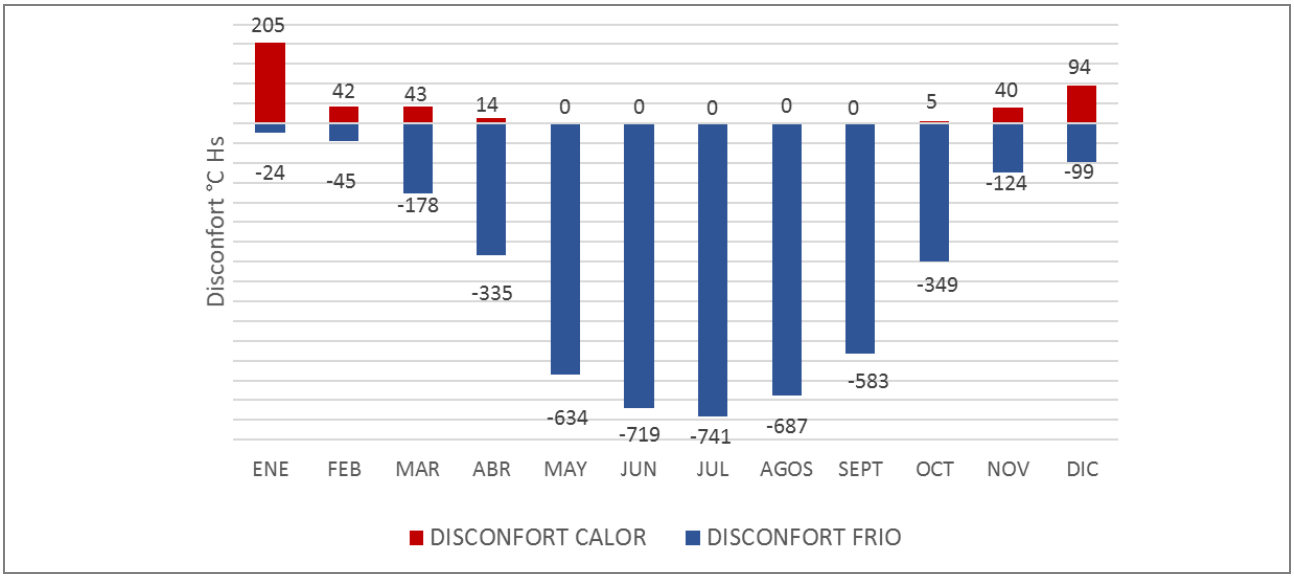




5.04 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.63

| CAJ-022 | CU | CUBIERTA AJARDINADA |
|---|---|---|

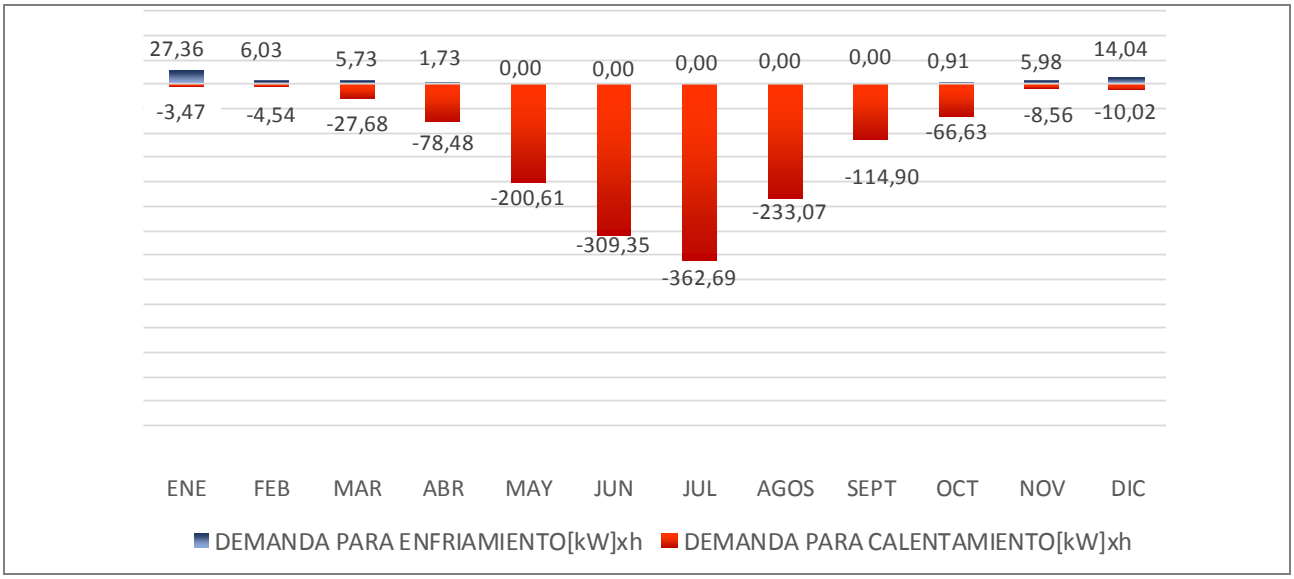
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **442** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.518** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.960** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

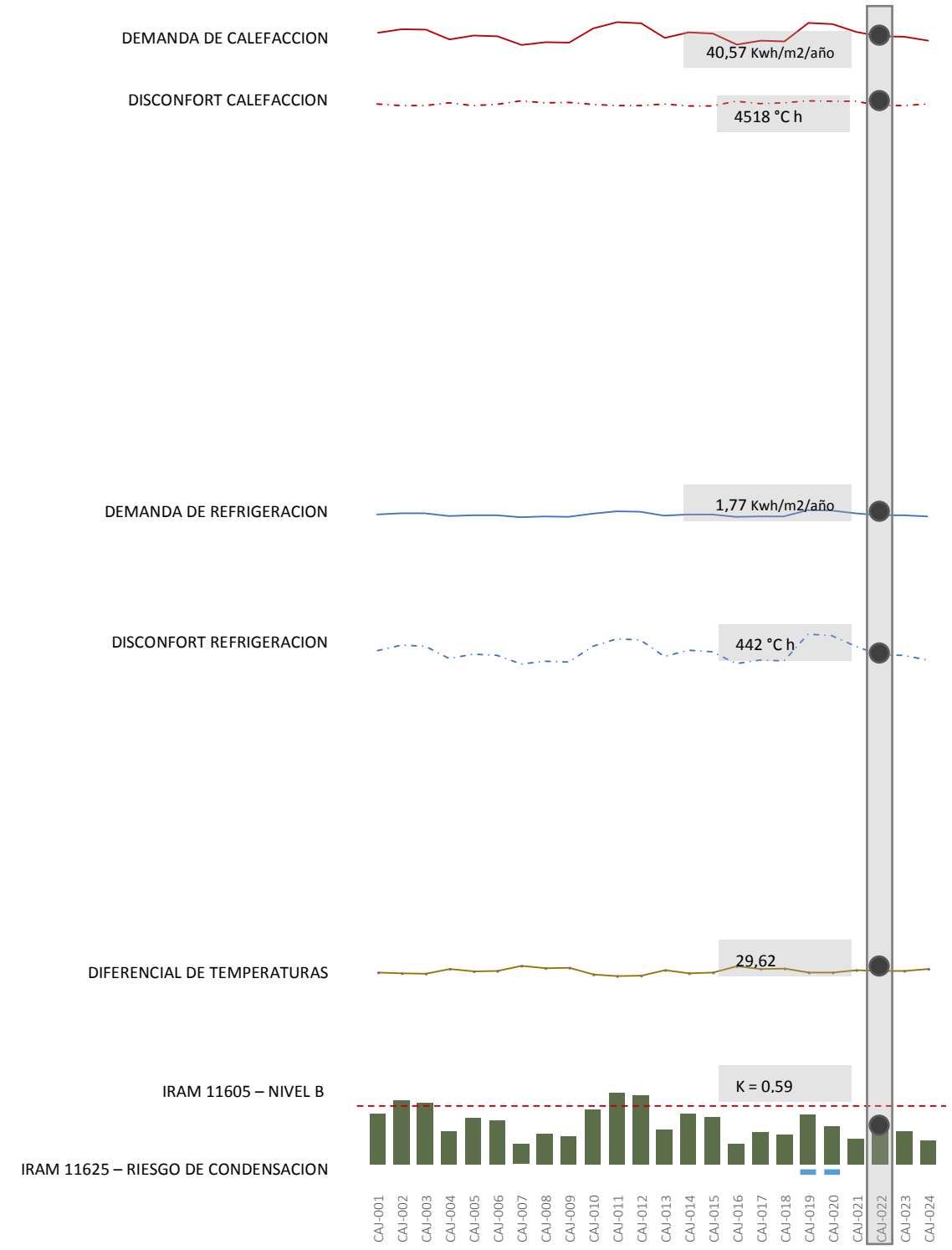



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **61,78** | kWh | 1,77 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.419,99** | kWh | 40,57 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.481,77** | kWh | **42,34** | kWh/m2/año |

| CAJ-022 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 073 | N° 074 | N° 030 | N° 022 | N° 011 | N° 019 |



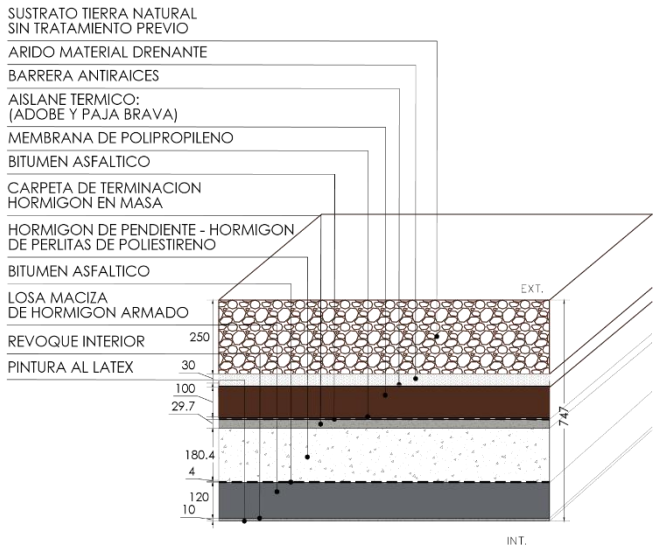

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,59 | 0% | 29,62 | 40,57 | 1,77 | 4518 | 442 |
| INC. FAMILIA | 100,64% | 0% | 99,85% | 98,68% | 90,71% | 99,58% | 93,21% |
| INC. MUNDIAL | 72,84% | 0% | 99,73% | 91,21% | 43,03% | 99,06% | 69,97% |

| CAJ-023 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA (LOSA MACIZA H° A° + BIOCONSTRUCCION) SUSTRATO 25 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

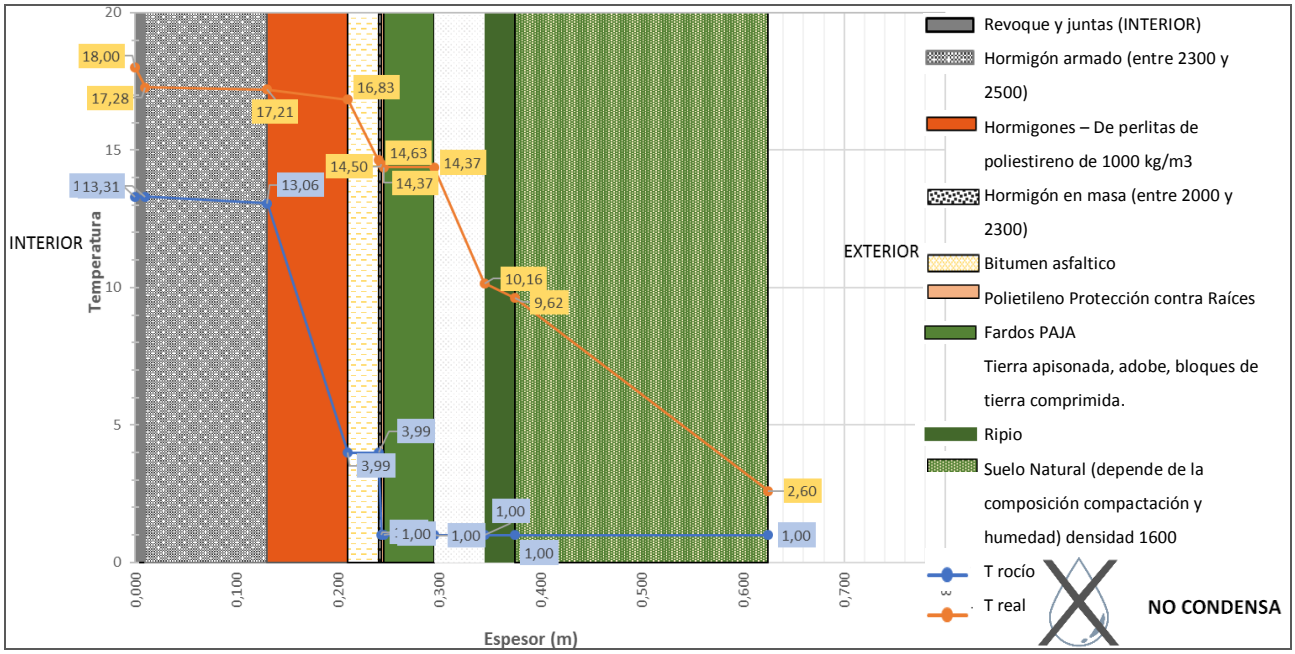
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,45 | 0,46 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



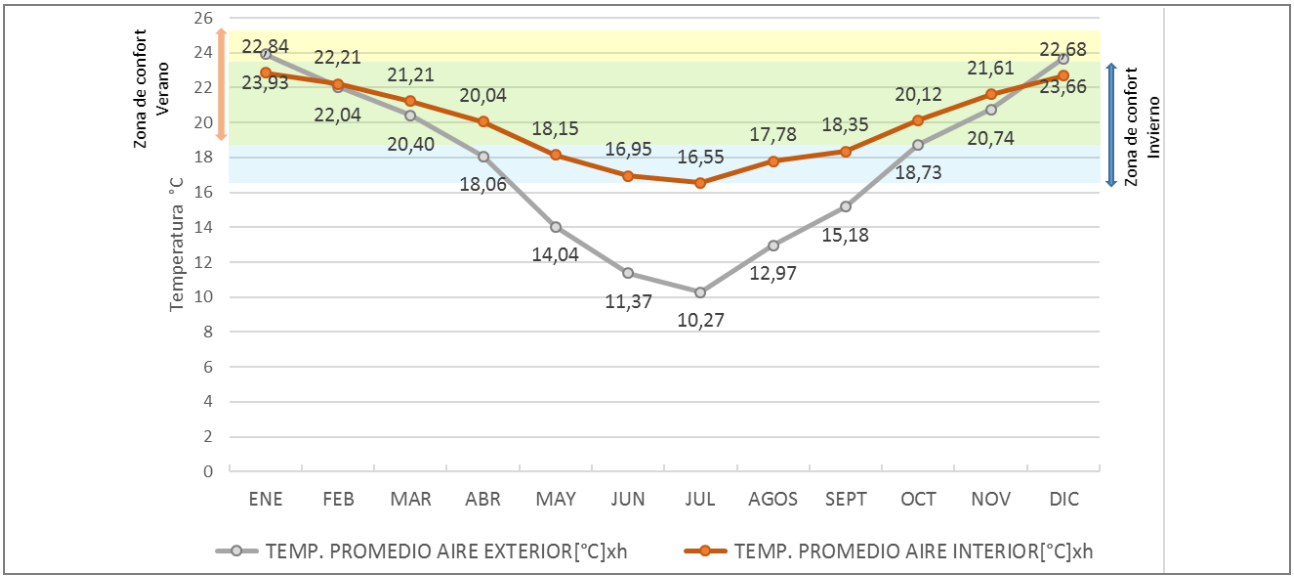

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 120,7 | 70,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **30,5** | **23,4** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **20,6** | **22,9** |
| | **Amortiguamiento:** | 0,005 | 0,002 |

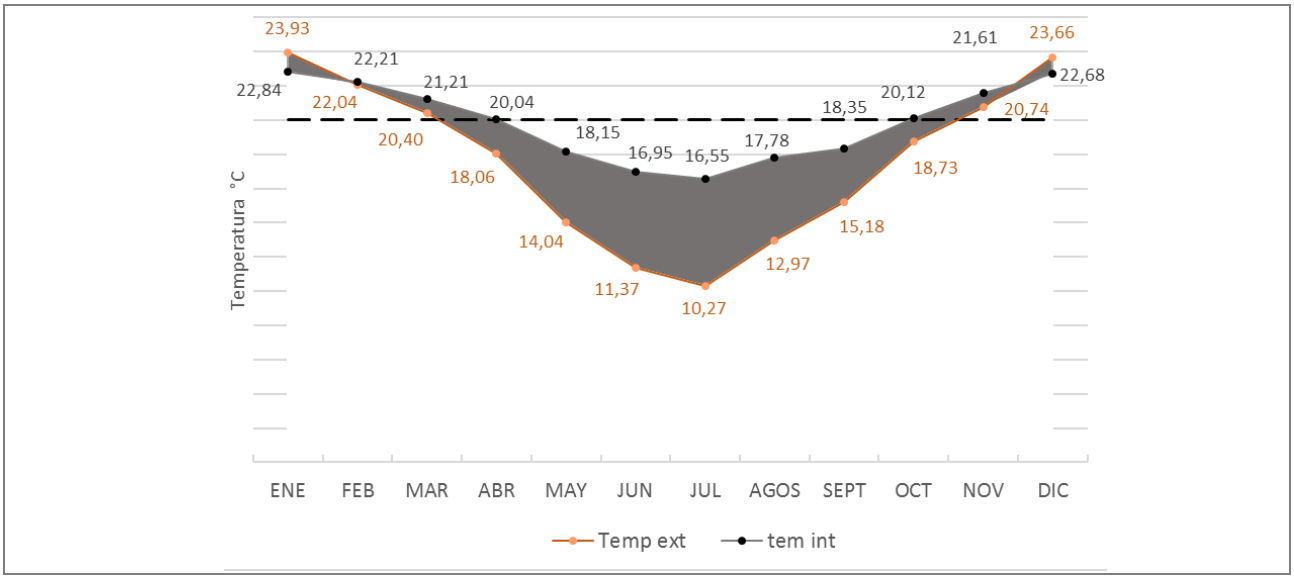
| CAJ-023 | CU | CUBIERTA AJARDINADA |
|---|---|---|

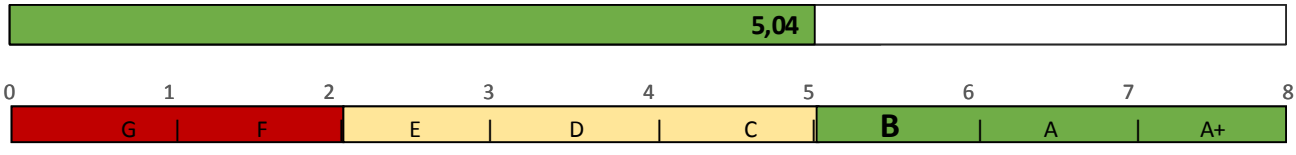
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,56** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,47** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



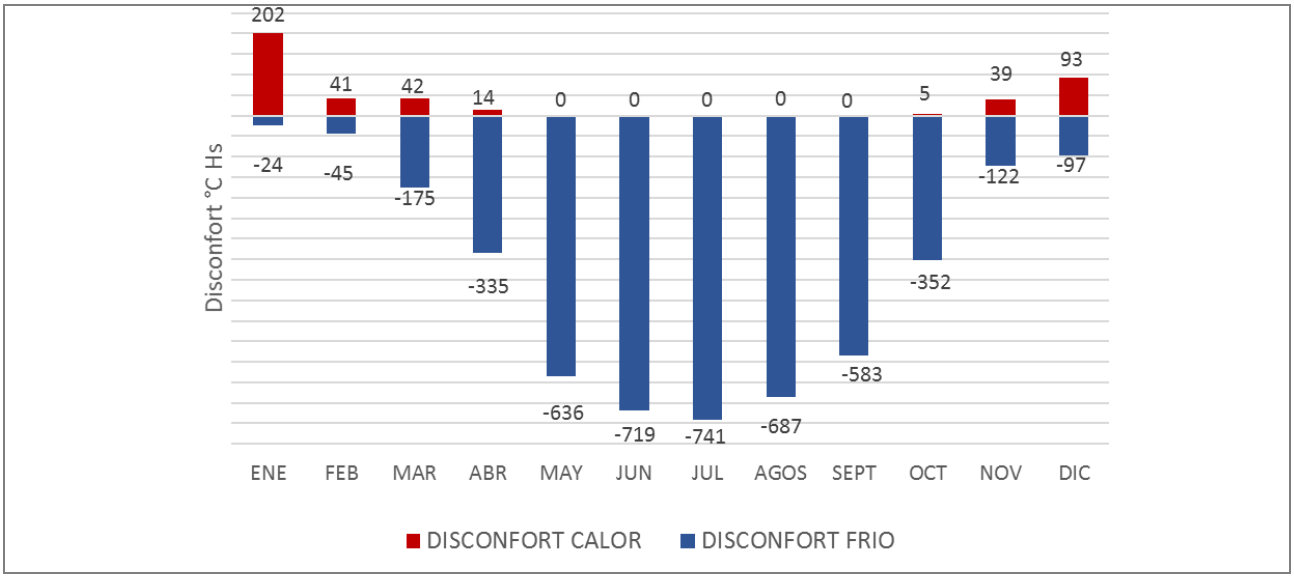




5,04 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| CAJ-023 | CU | CUBIERTA AJARDINADA |
|---|---|---|

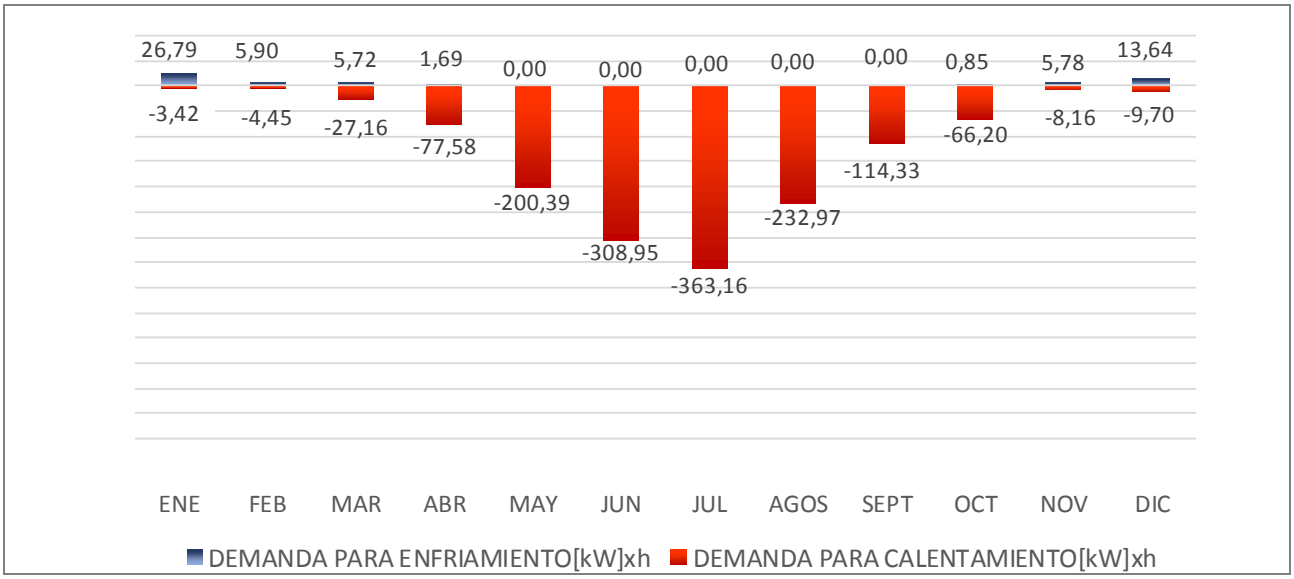
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **436** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.516** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.952** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

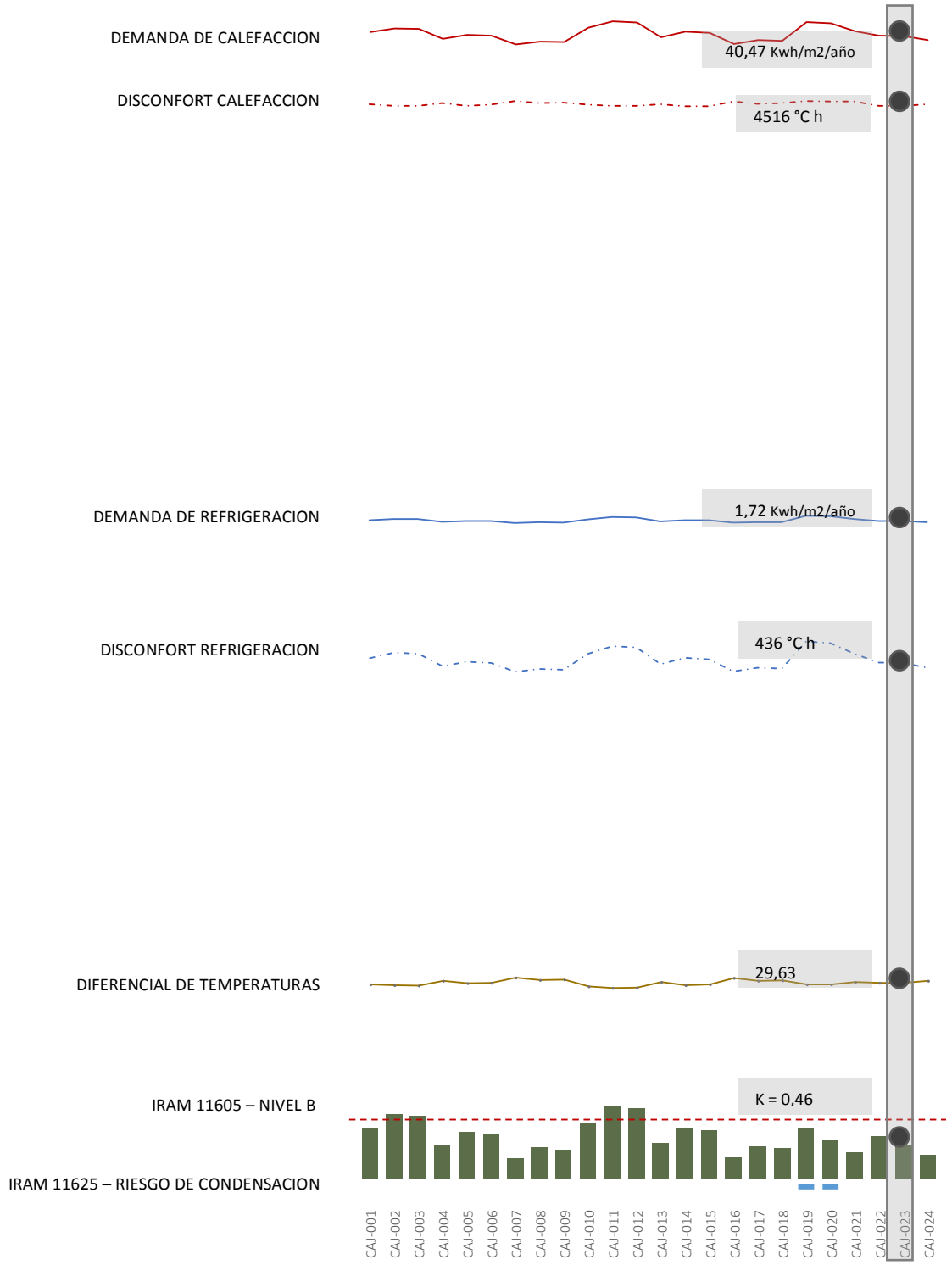



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **60,37** | kWh | 1,72 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.416,47** | kWh | 40,47 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.476,84** | kWh | **42,20** | kWh/m2/año |

| CAJ-023 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 055 | N° 072 | N° 028 | N° 017 | N° 009 | N° 017 |



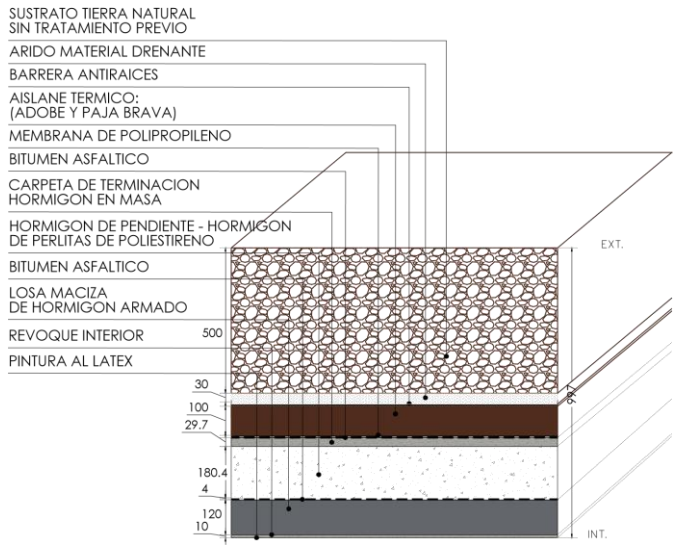

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,46 | 0% | 29,63 | 40,47 | 1,72 | 4516 | 436 |
| INC. FAMILIA | 78,46% | 0% | 99,88% | 98,44% | 88,15% | 99,53% | 91,94% |
| INC. MUNDIAL | 56,79% | 0% | 99,77% | 90,99% | 41,82% | 99,01% | 69,02% |

| CAJ-024 | CU | CUBIERTA AJARDINADA |
|---|---|---|

CUBIERTA AJARDINADA (LOSA MACIZA H° A° + BIOCONSTRUCCION) SUSTRATO 50 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

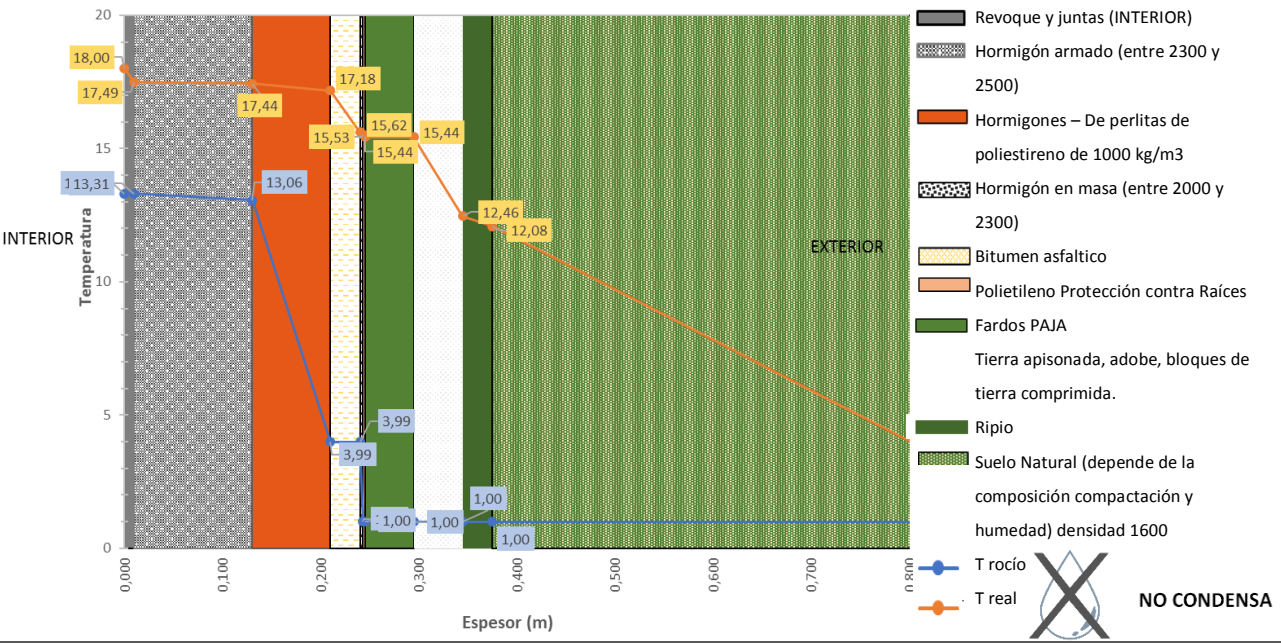
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,32 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



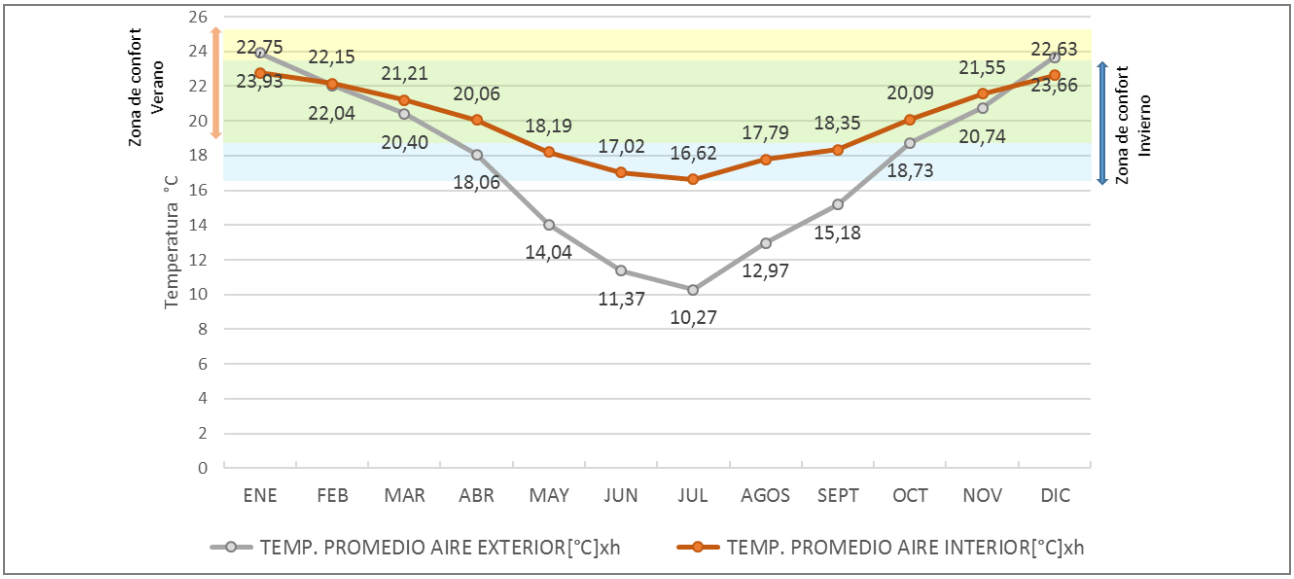

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 119,4 | 49,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **43,8** | **28,1** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **30,0** | **31,6** |
| | **Amortiguamiento:** | 0,000 | 0,000 |

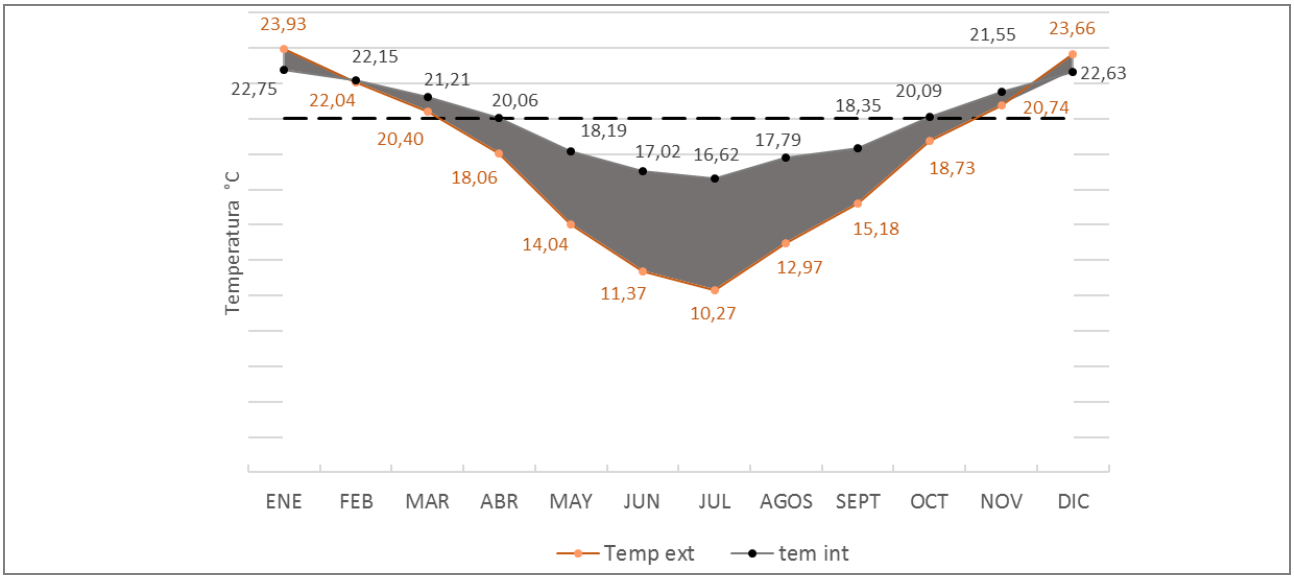
| CAJ-024 | CU | CUBIERTA AJARDINADA |
|---|---|---|

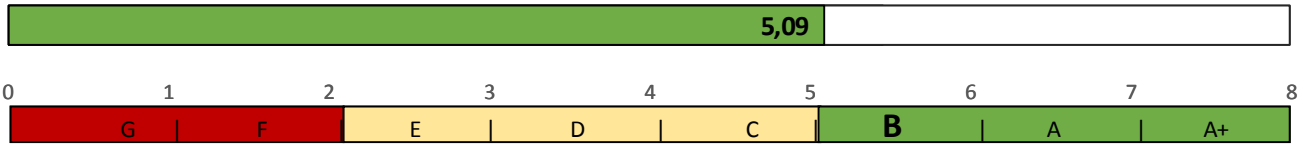
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,23** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,66** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



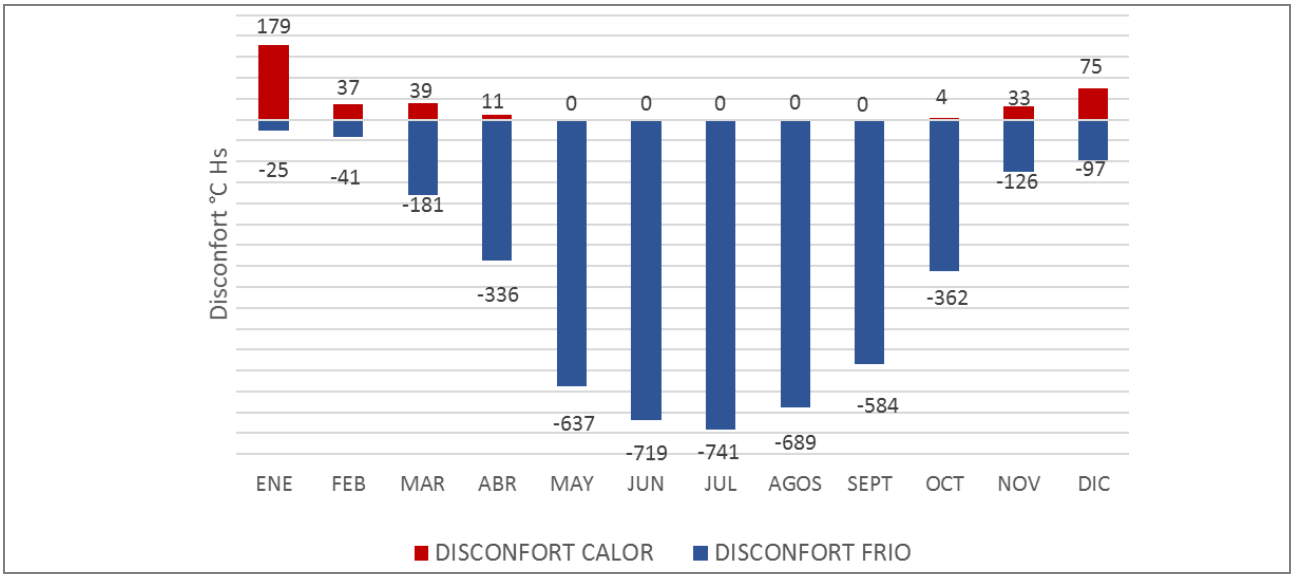




5,09 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| CAJ-024 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

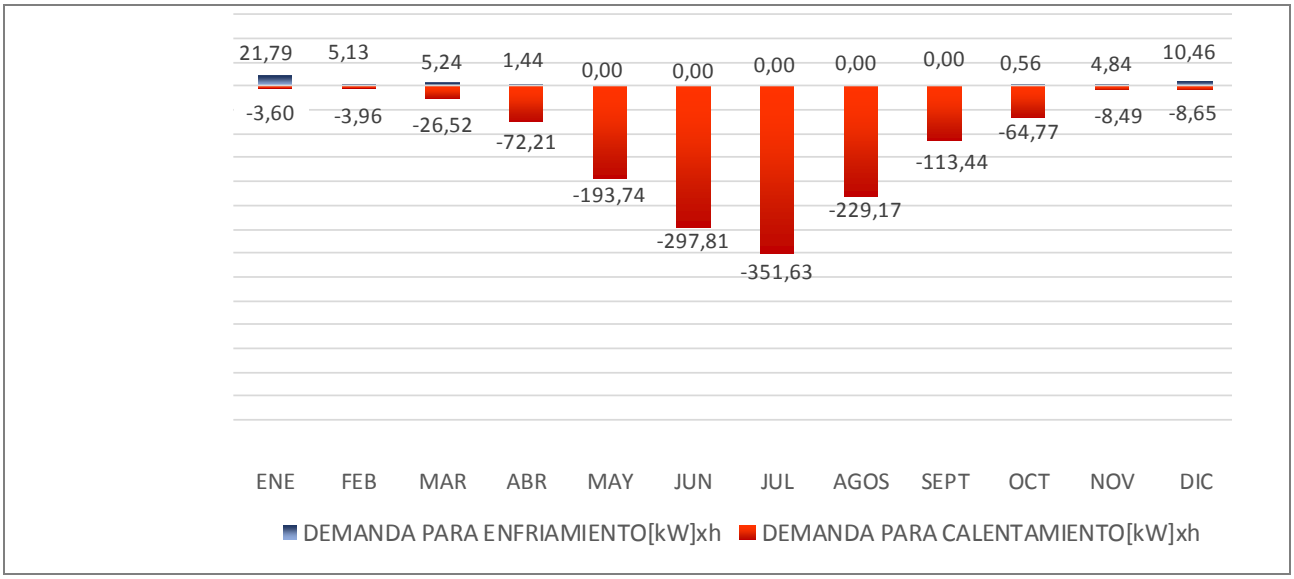
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **378** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.537** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.915** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

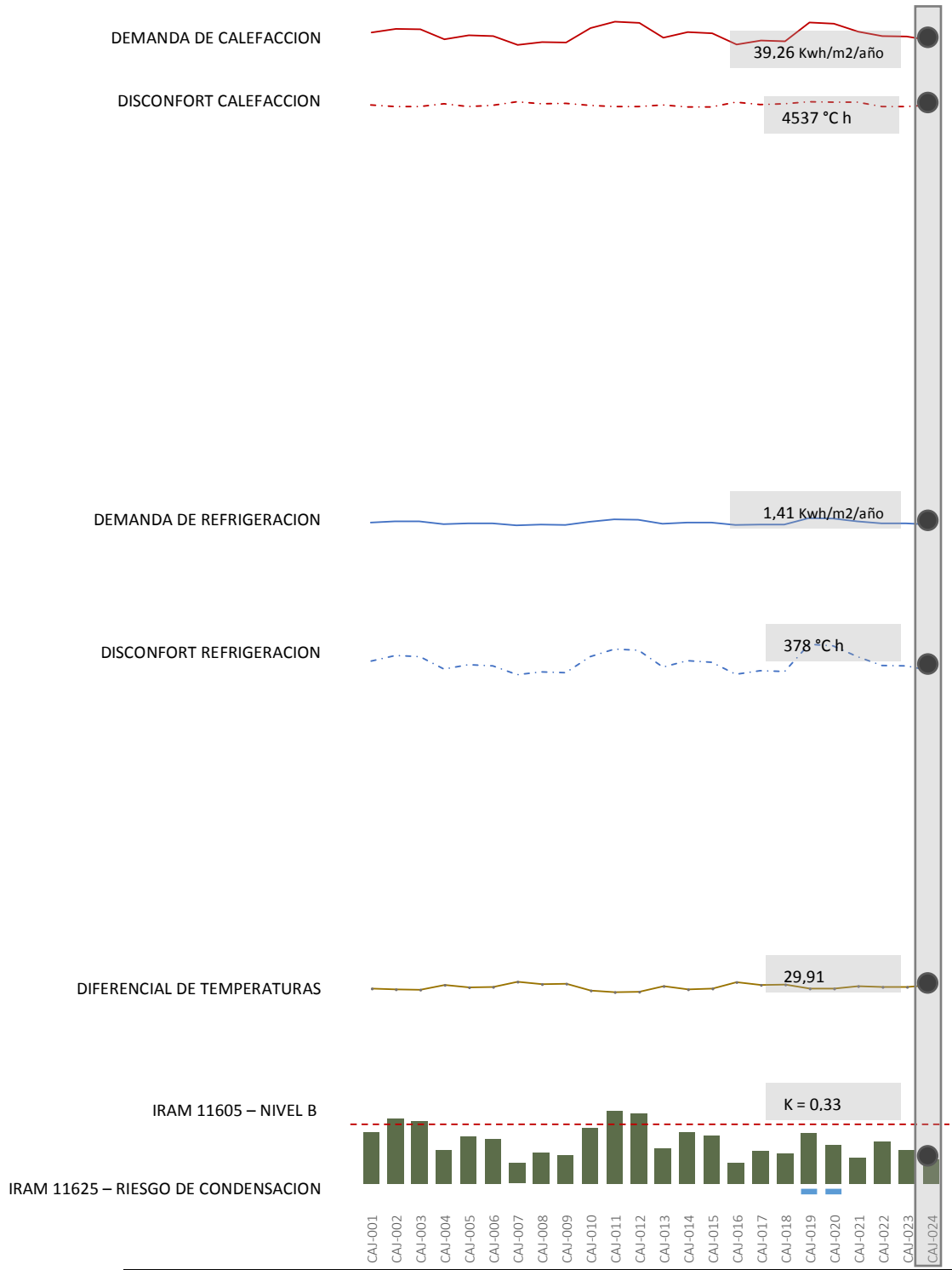



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **49,44** | kWh | 1,41 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.374** | kWh | 39,26 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.423,44** | kWh | **40,67** | kWh/m2/año |

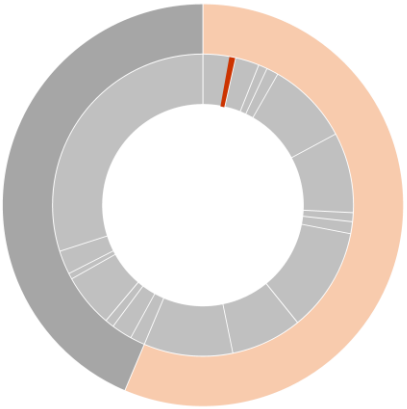
| CAJ-024 | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 023 | N° 051 | N° 011 | N° 010 | N° 022 | N° 010 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,59 | 8% | 29,67 | 41,11 | 1,95 | 4537 | 474 |
| INDIVIDUAL | 0,33 | 0% | 29,91 | 39,26 | 1,41 | 4537 | 378 |
| INC. FAMILIA | 56,29% | 0% | 100,82% | 95,49% | 72,26% | 99,99% | 79,71% |
| INC. MUNDIAL | 40,74% | 0% | 100,71% | 88,27% | 34,28% | 99,48% | 59,84% |



# BENO

**BEN 001**: PANEL BENO BOVEDILLA ARMADA.

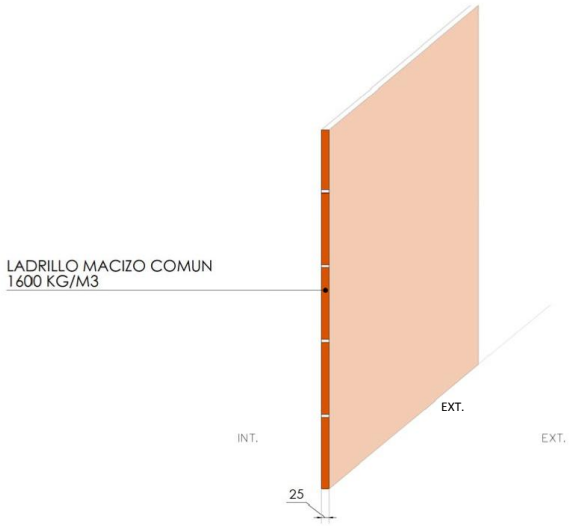
**BEN 002**: PANEL BENO BOVEDILLA ARMADA CON AISLACION.

| BEN-001 | MU | BENO |
|---|---|---|

PANEL BENO BOVEDILLA ARMADA.

## INDICE DE TRANSMITANCIA TERMICA "K"

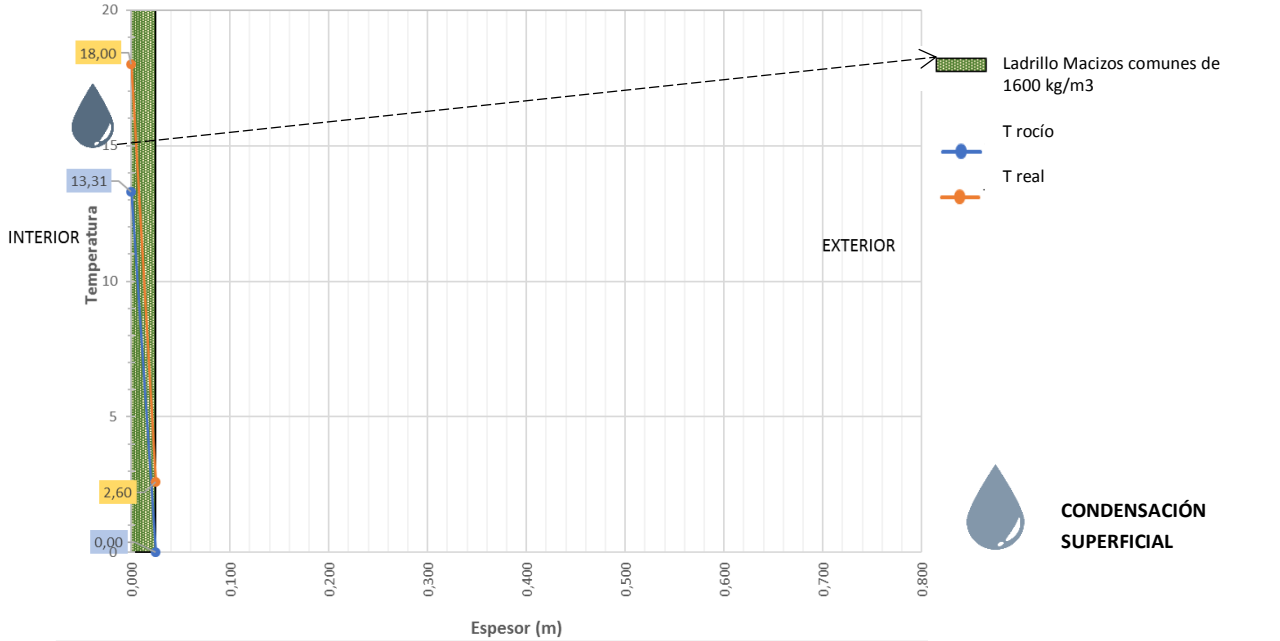
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 4,98 | 4,98 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



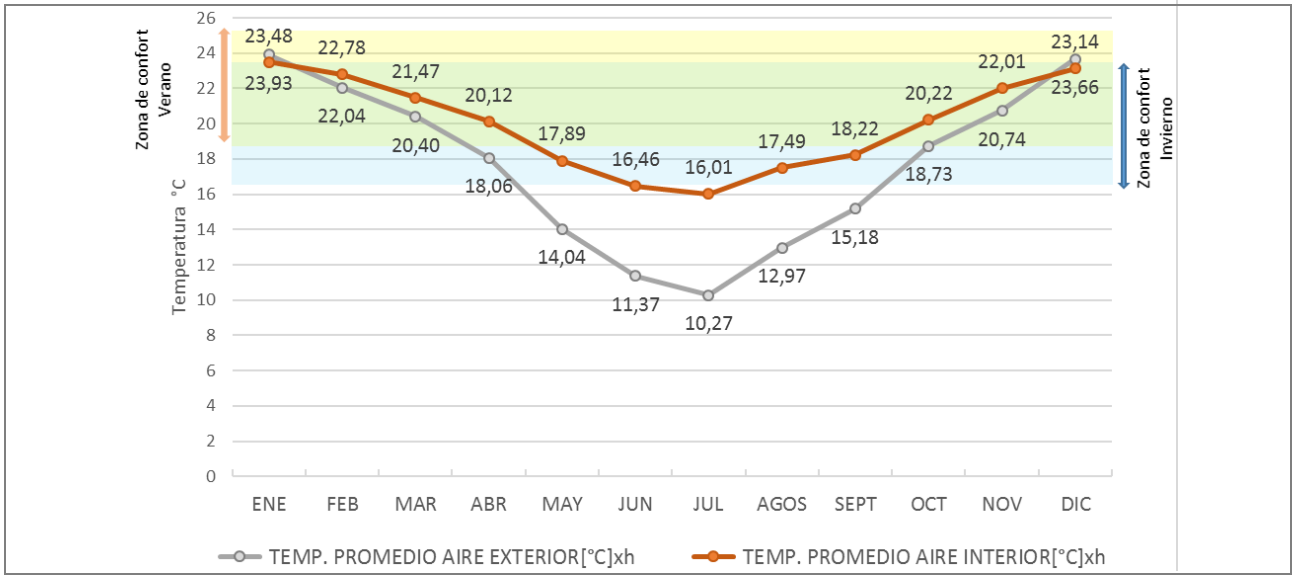

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | 143,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | **0,5** |
| | **Amortiguamiento:** | 0,879 | 0,875 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **1,0** | **0,6** |
| | **Amortiguamiento:** | 0,767 | 0,849 |

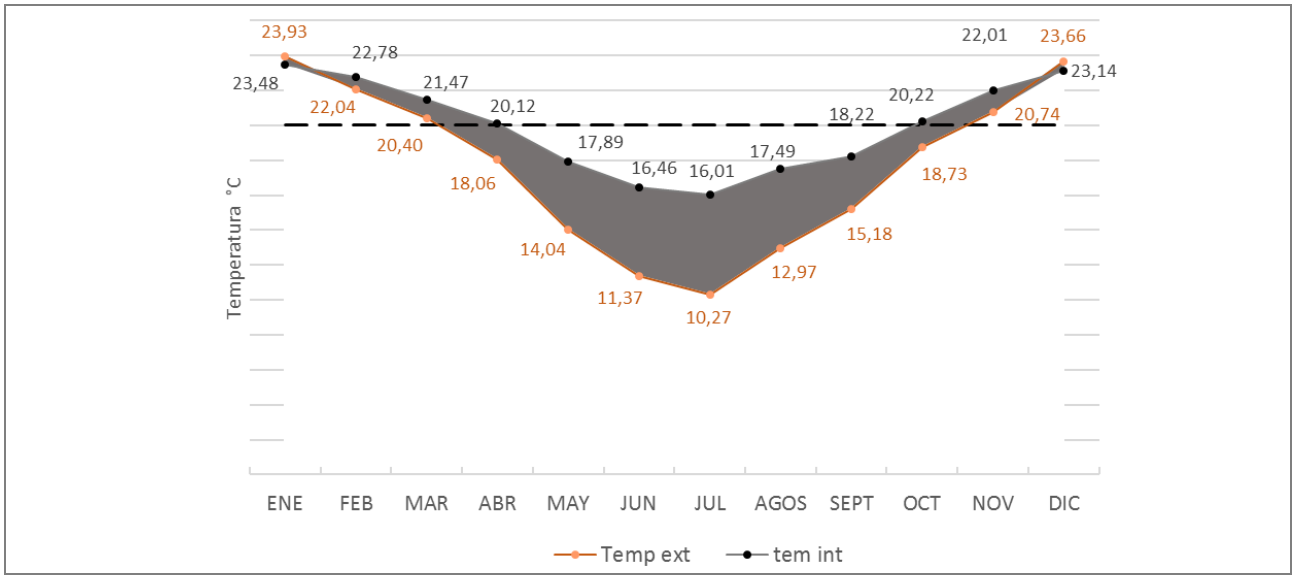
| BEN-001 | MU | BENO |
|---|---|---|

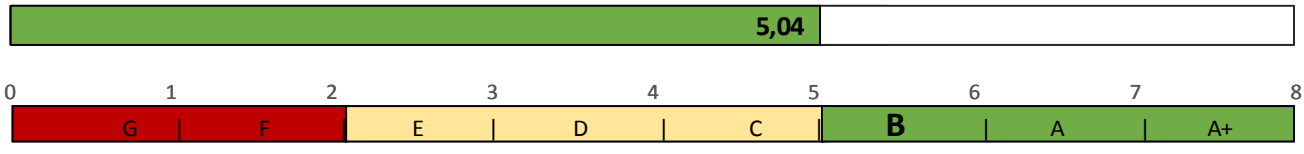
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 19:00 hs | **27,26** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **11,93** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



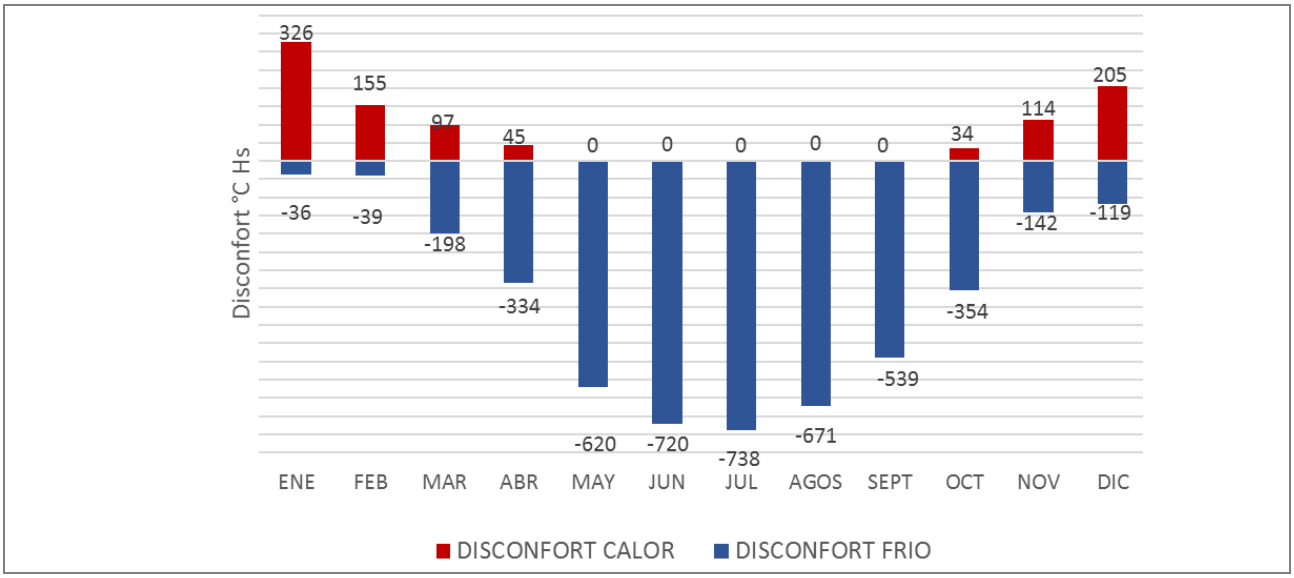




5,04 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| BEN-001 | MU | BENO |
|---|---|---|

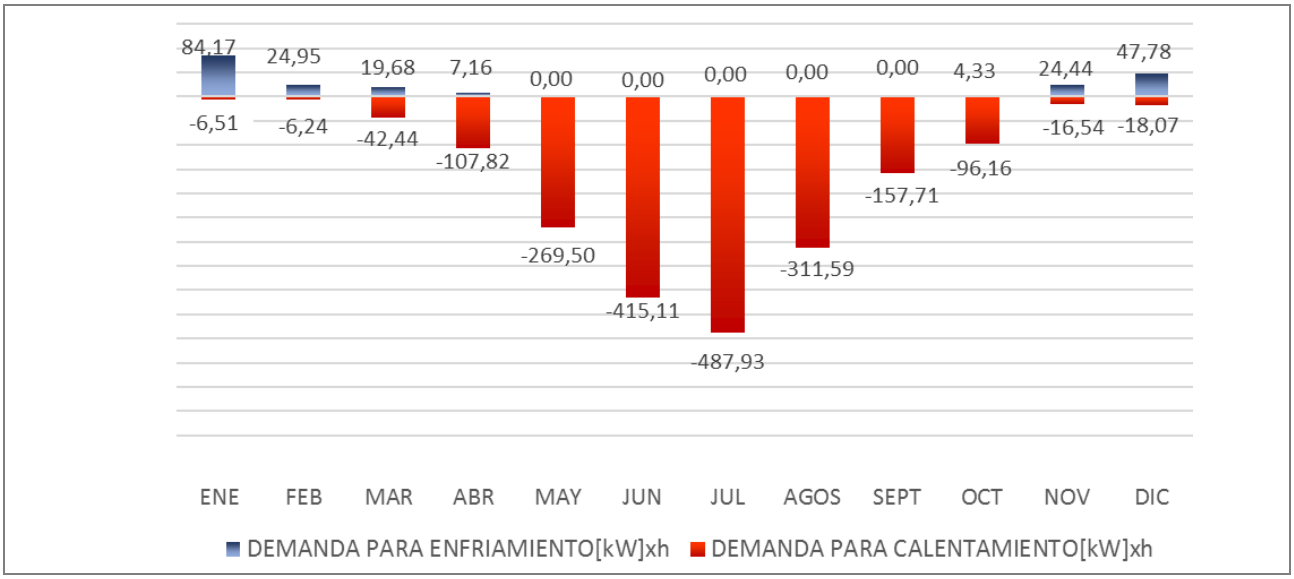
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **976** | °C Hs | 11% |
| HORAS DE DISCONFORT POR FRÍO | **4.510** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.486** | **°C Hs** | **63%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

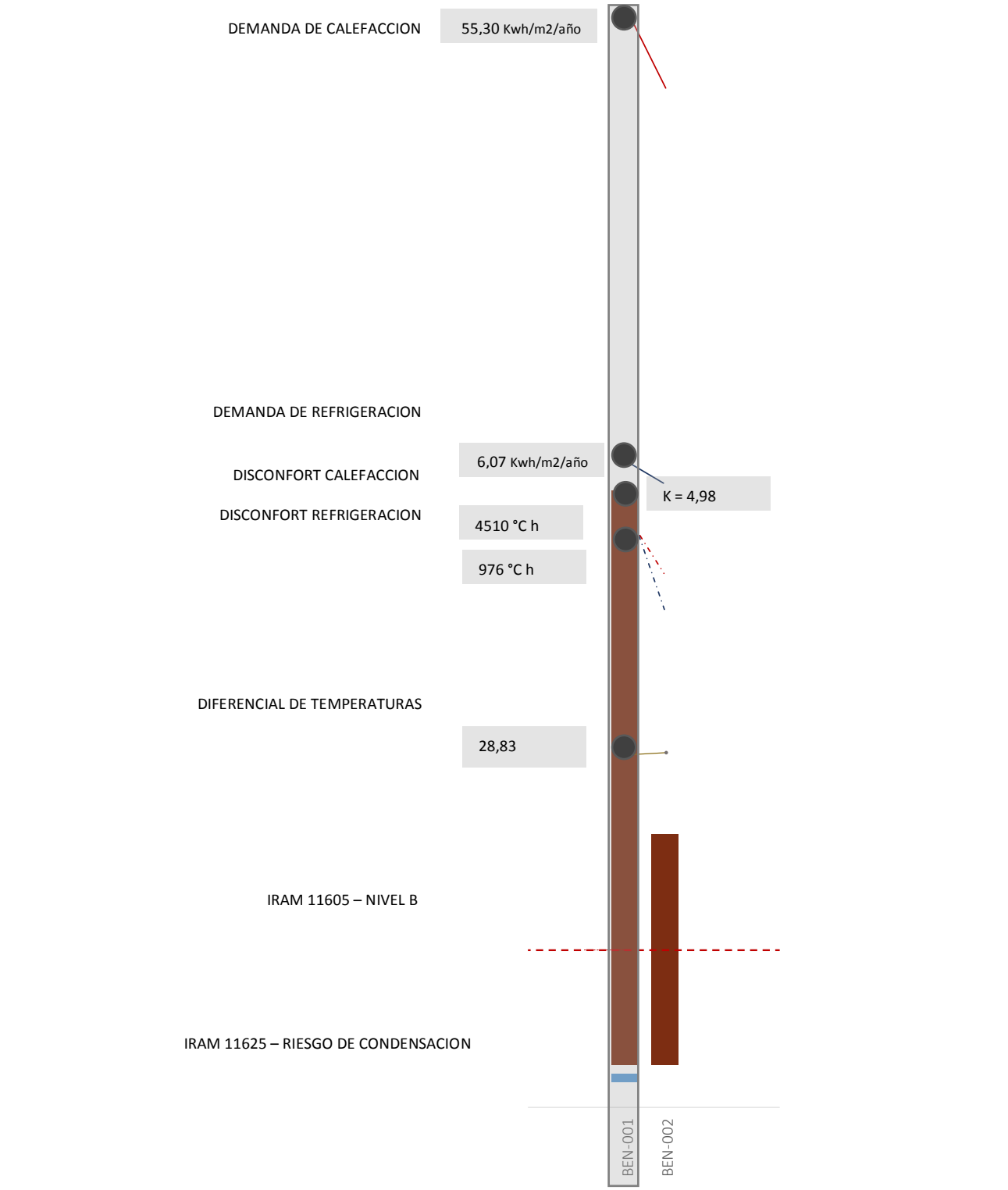



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **212,51** | kWh | 6,07 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.935,61** | kWh | 55,30 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.148,12** | kWh | **61,37** | kWh/m2/año |

| BEN-001 | MU | BENO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 194 | N° 170 | N° 188 | N° 183 | N° 064 | N° 187 |



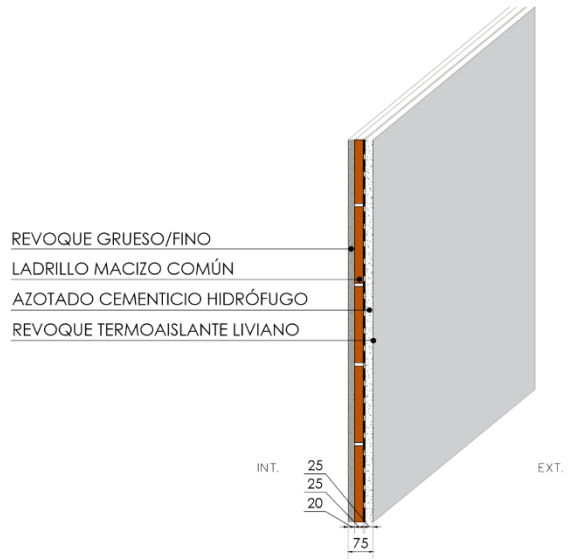

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 2,74 | 50% | 29,33 | 47,81 | 3,83 | 4470 | 672,5 |
| INDIVIDUAL | 4,98 | 100% | 28,83 | 55,3 | 6,07 | 4510 | 976 |
| INC. FAMILIA | 181,75% | 200,00% | 98,30% | 115,67% | 158,49% | 100,89% | 145,13% |
| INC. MUNDIAL | 418,70% | 357,05% | 93,56% | 134,47% | 101,14% | 101,09% | 190,94% |

| BEN-002 | MU | BENO |
|---|---|---|

PANEL BENO BOVEDILLA ARMADA CON AISLACION.

## INDICE DE TRANSMITANCIA TERMICA "K"

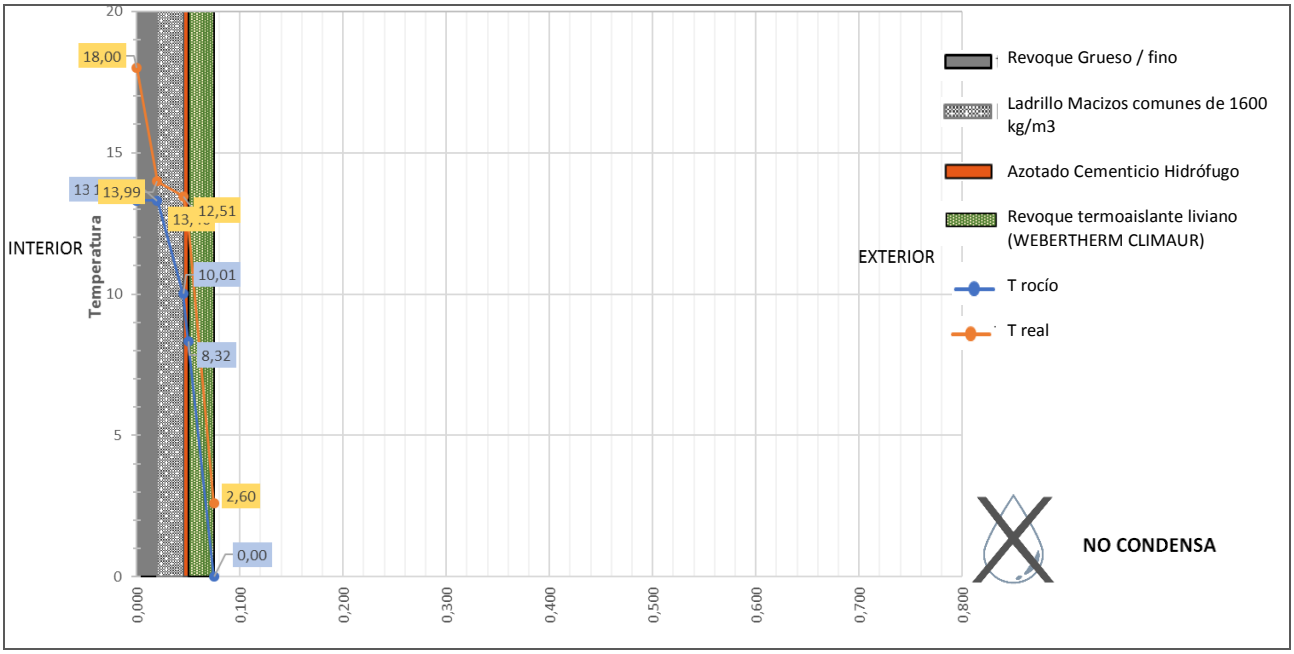
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 2,00 | 2,00 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



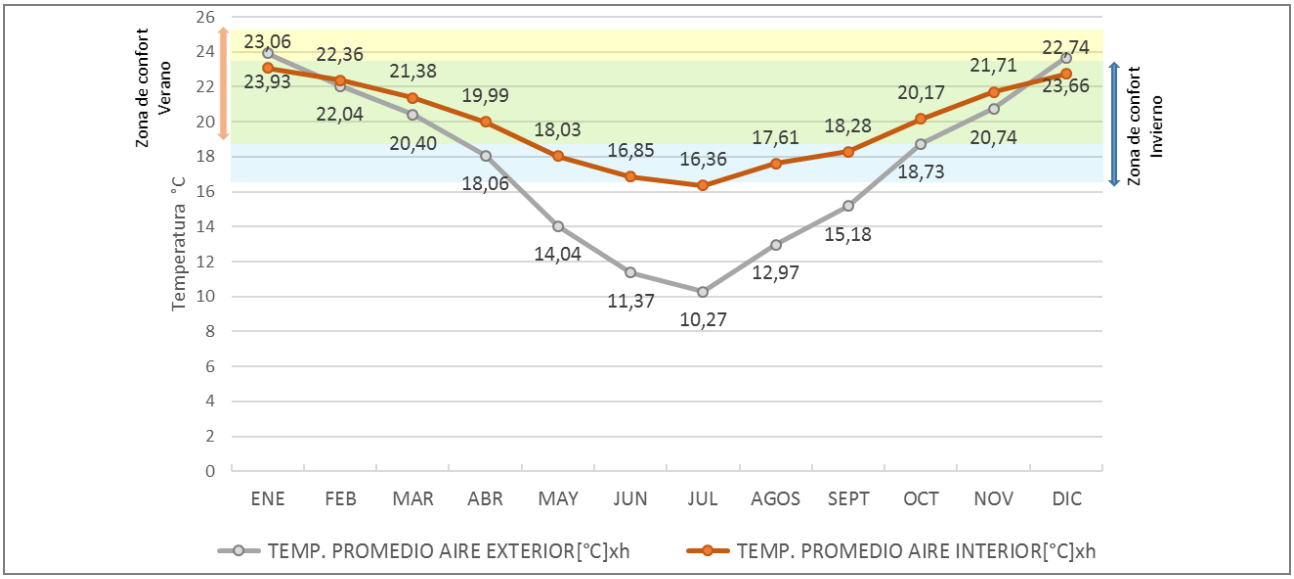

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 21,8 | 46,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **2,1** | **3,1** |
| | **Amortiguamiento:** | 0,456 | 0,319 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **2,4** | **3,2** |
| | **Amortiguamiento:** | 0,539 | 0,434 |

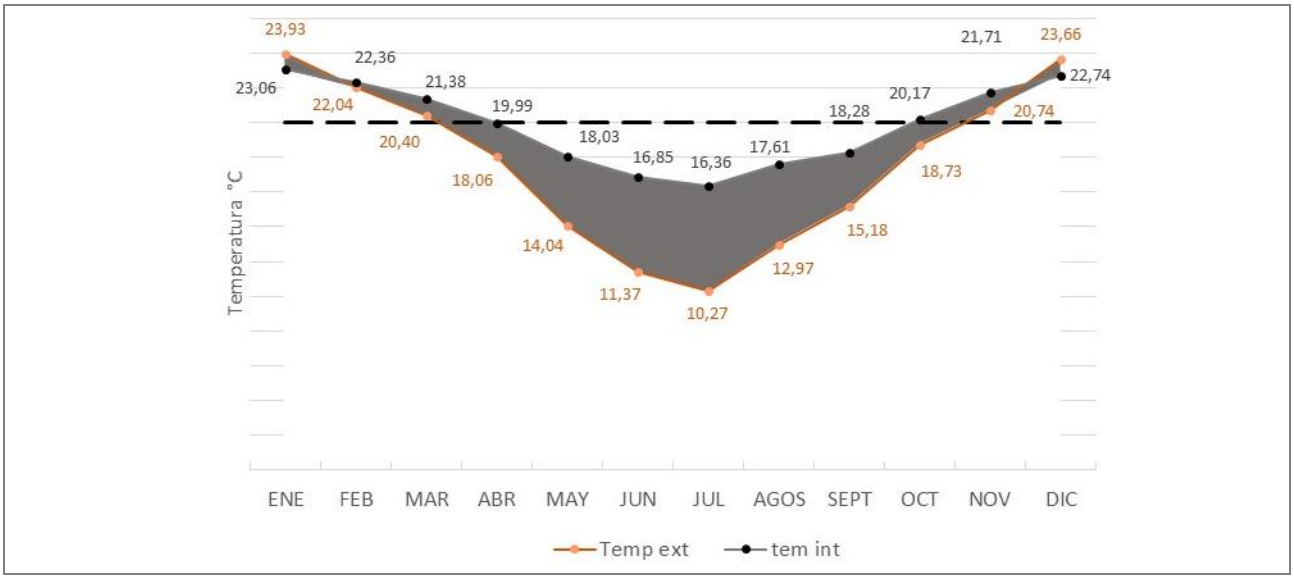
| BEN-002 | MU | BENO |
|---|---|---|

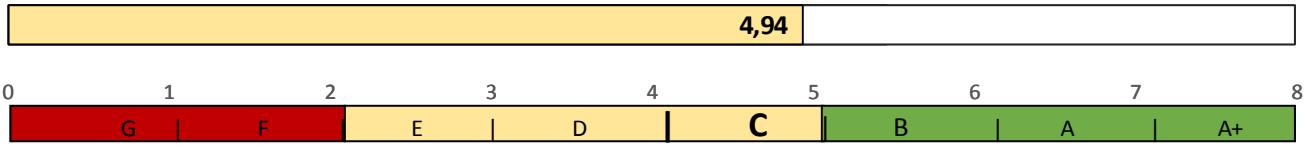
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 19:00 hs | **25,44** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,61** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



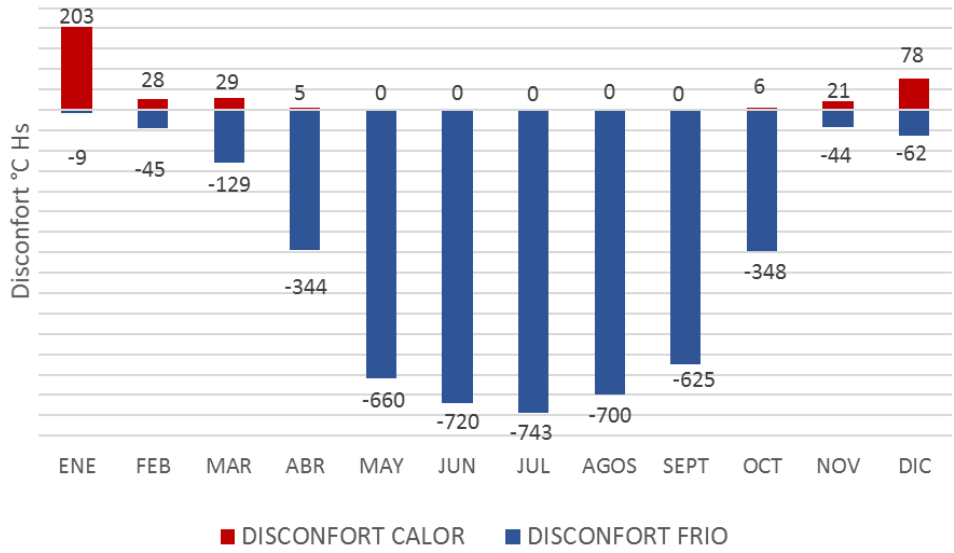




4,94 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| BEN-002 | MU | BENO |
|---|---|---|

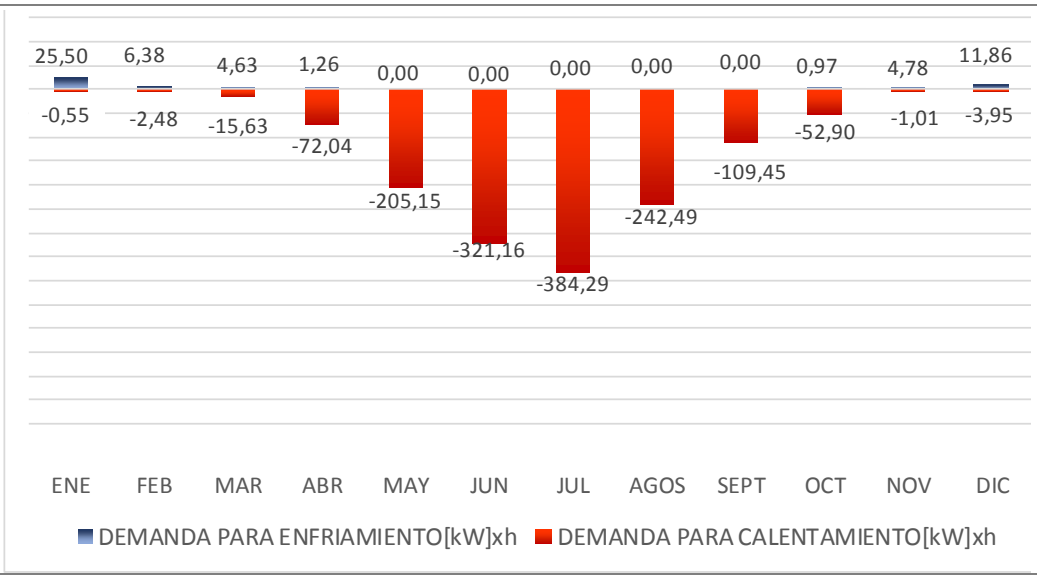
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **369** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.430** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.799** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

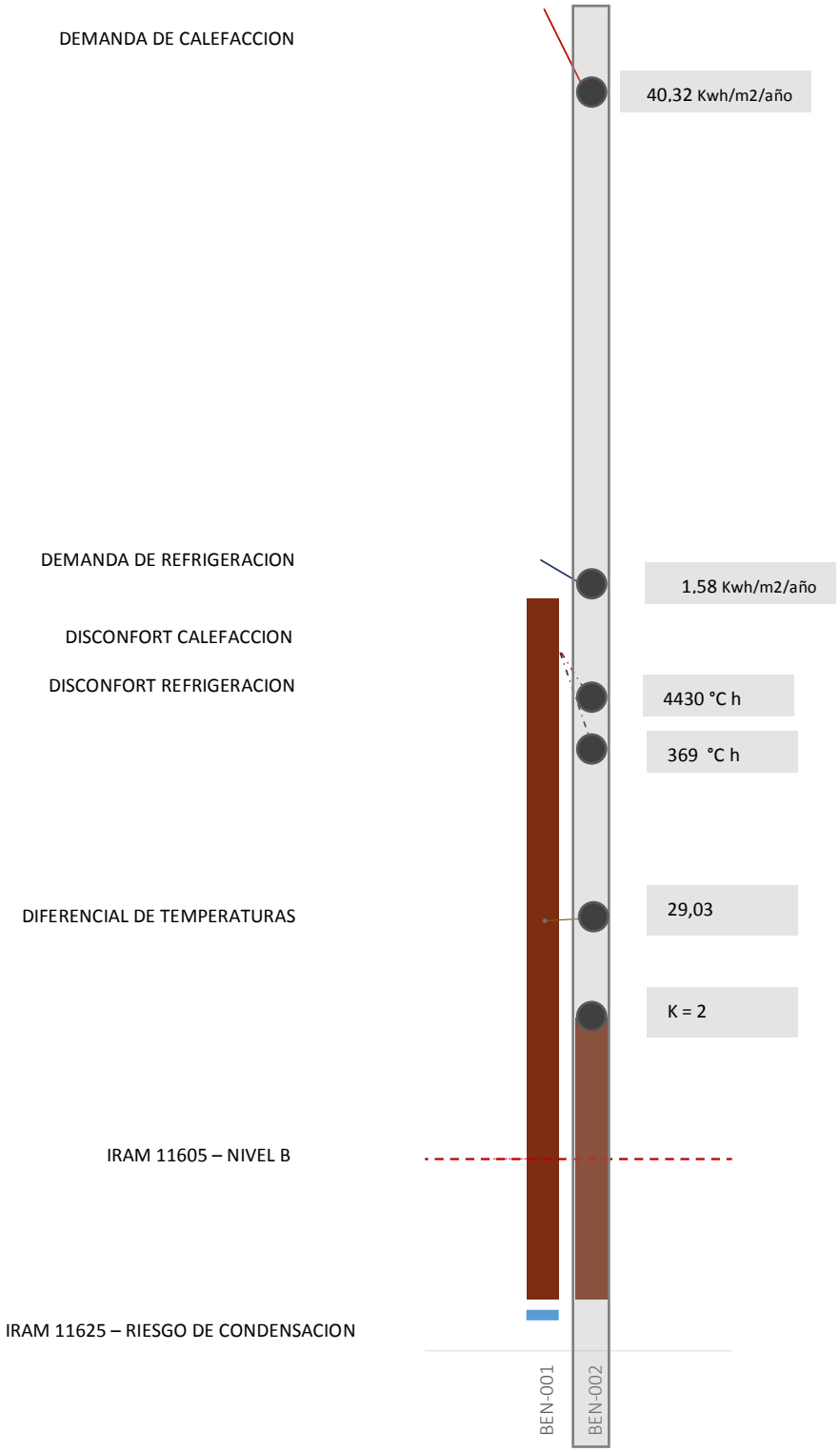



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **55,39** | kWh | 1,58 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.411,09** | kWh | 40,32 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.466,48** | kWh | **41,90** | kWh/m2/año |

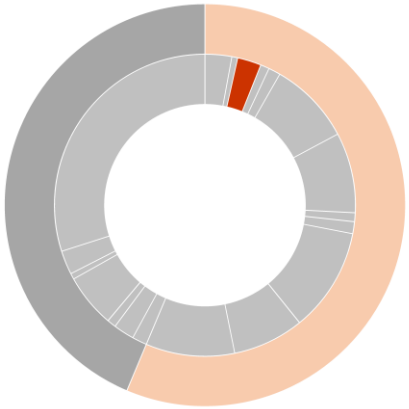
| BEN-002 | MU | BENO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 182 | N° 182 | N° 172 | N° 117 | N° 013 | N° 162 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 2,74 | 50% | 28,83 | 47,81 | 3,83 | 4470 | 672,5 |
| INDIVIDUAL | 2 | 0% | 29,03 | 40,32 | 1,58 | 4430 | 369 |
| INC. FAMILIA | 72,99% | 0,00% | 100,69% | 84,33% | 41,25% | 99,11% | 54,87% |
| INC. MUNDIAL | 168,15% | 0,00% | 94,21% | 98,04% | 26,33% | 99,29% | 72,19% |



# LADRILLO COMUN

**LAD 001**: MURO DE 15. LADRILLO COMUN VISTO EXTERIOR CON REVOQUE INTERIOR.

**LAD 002**: MURO DE 30. LADRILLO COMUN VISTO EXTERIOR CON REVOQUE INTERIOR.

**LAD 003:** MURO DOBLE LADRILLO VISTO EXTERIOR E INTERIOR CON CAMARA DE AIRE 2,5 CM.

**LAD 004:** MURO DOBLE LADRILLO VISTO EXTERIOR E INTERIOR CON CAMARA DE AIRE 5 CM.

**LAD 005:** MURO DOBLE LADRILLO VISTO EXTERIOR E INTERIOR CON POLIESTIRENO 2,5 CM.

**LAD 006:** MURO DOBLE LADRILLO VISTO EXTERIOR E INTERIOR CON POLIESTIRENO 5 CM.

**LAD 007:** MURO DOBLE LADRILLO VISTO EXTERIOR CON LANA DE VIDRIO Y YESO CARTON INTERIOR.

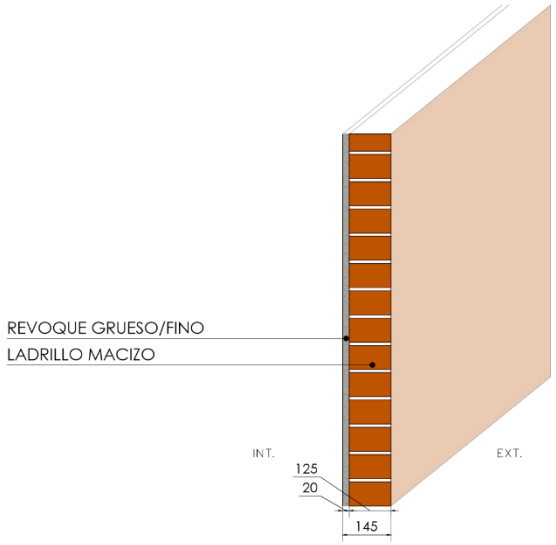
**LAD 008:** MURO DOBLE -PIEDRA SIN JUNTA AL EXTERIOR- LADRILLO COMUN CON REVOQUE AL INTERIOR- AISLACION DE PUR.

| LAD-001 | MU | LADRILLO COMÚN |
|---|---|---|

MURO DE 15. LADRILLO COMUN VISTO EXTERIOR CON REVOQUE INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

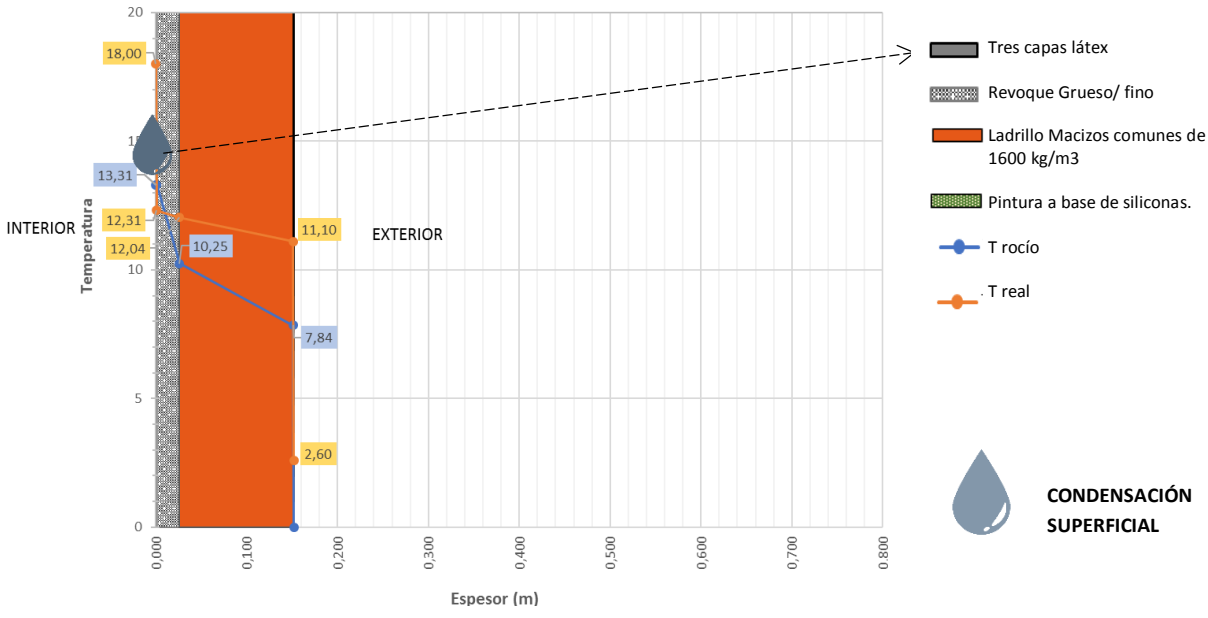
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 2,84 | 2,84 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



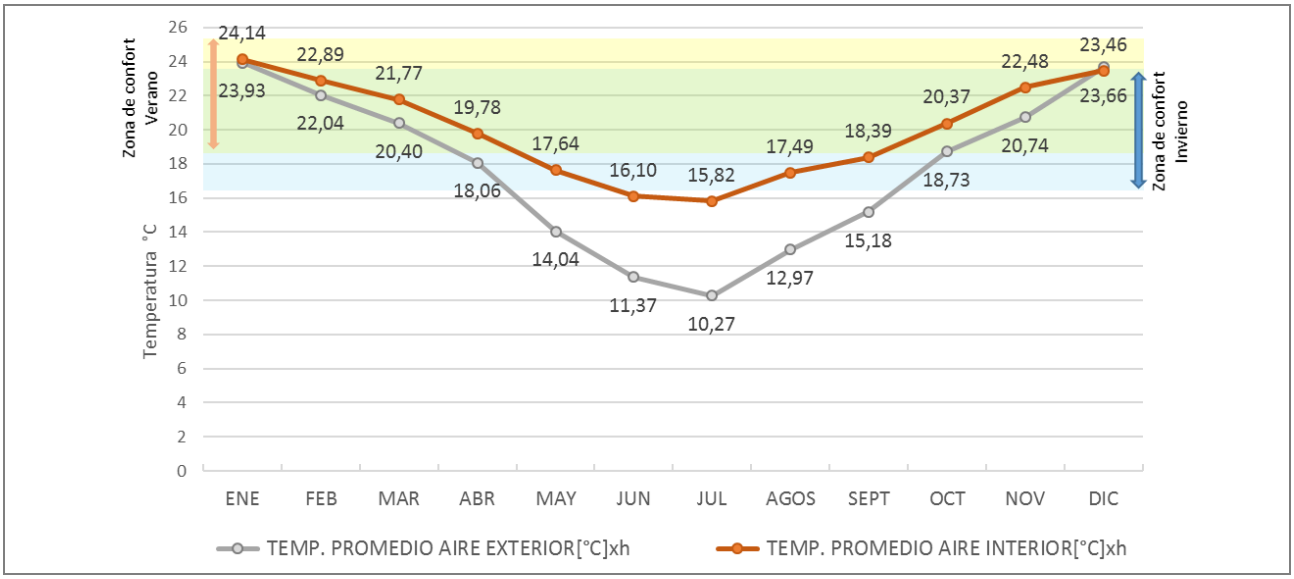

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 403,5 | Invierno 403,5 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,1** | **5,1** |
| | **Amortiguamiento:** | 0,154 | 0,154 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,1** | **4,4** |
| | **Amortiguamiento:** | 0,265 | 0,318 |

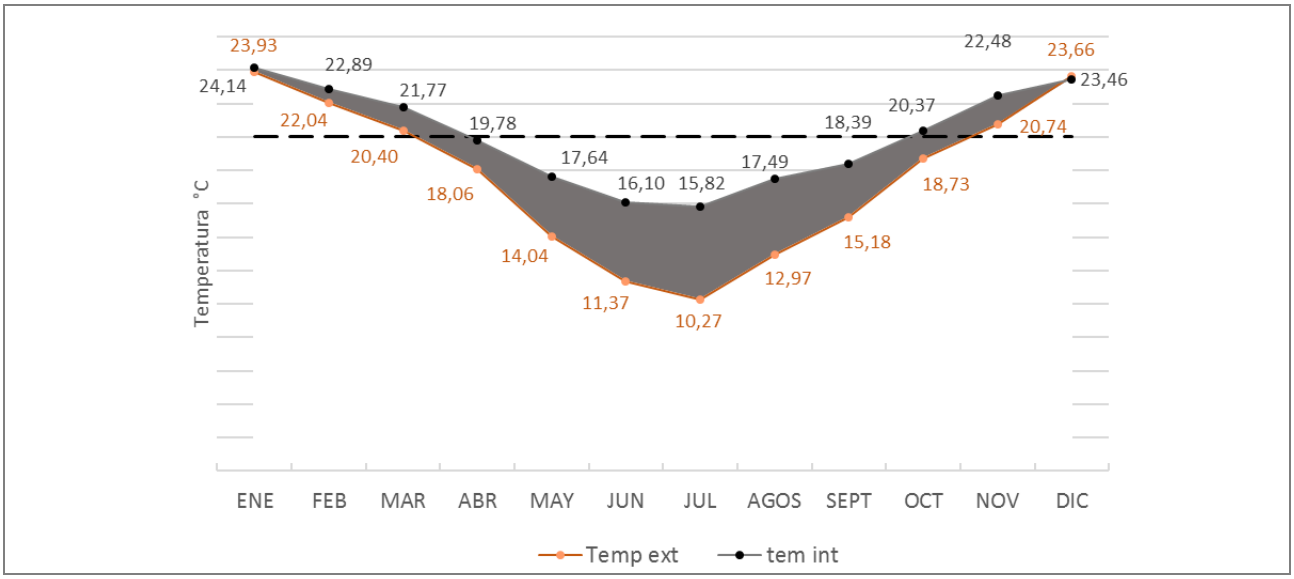
| LAD-001 | MU | LADRILLO COMÚN |
|---|---|---|

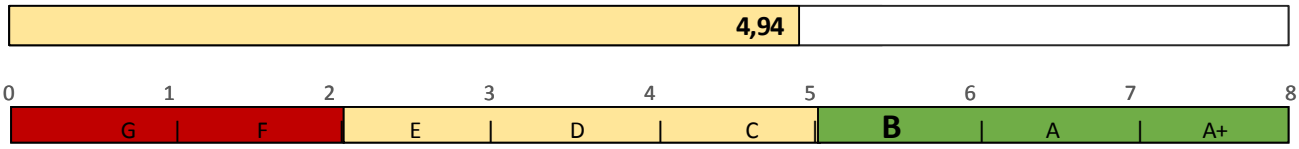
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 09/01 19:00 hs | **31,35** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **9,86** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



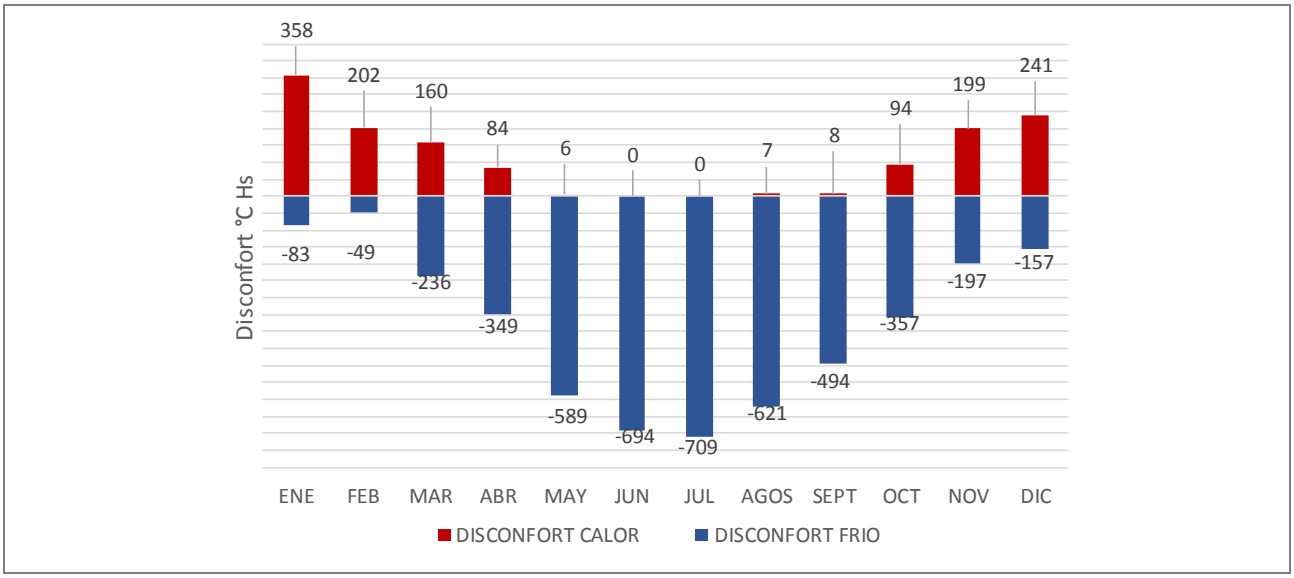




4,94 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| LAD-001 | MU | LADRILLO COMÚN |
|---|---|---|

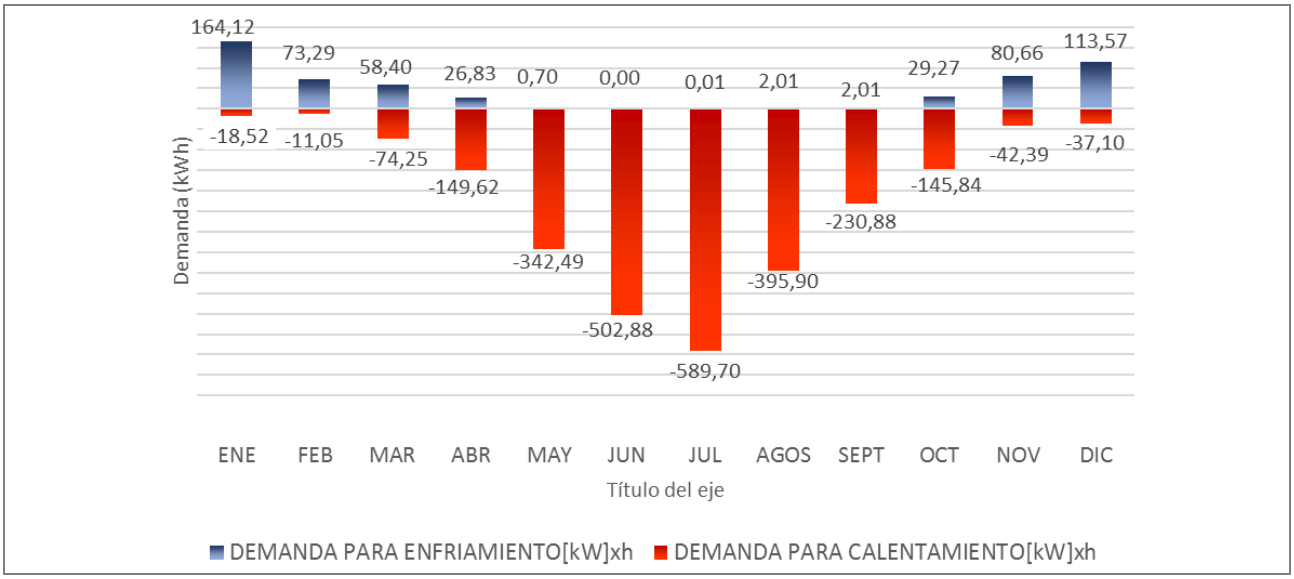
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.359** | °C Hs | 16% |
| HORAS DE DISCONFORT POR FRÍO | **4.535** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.894** | **°C Hs** | **67%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

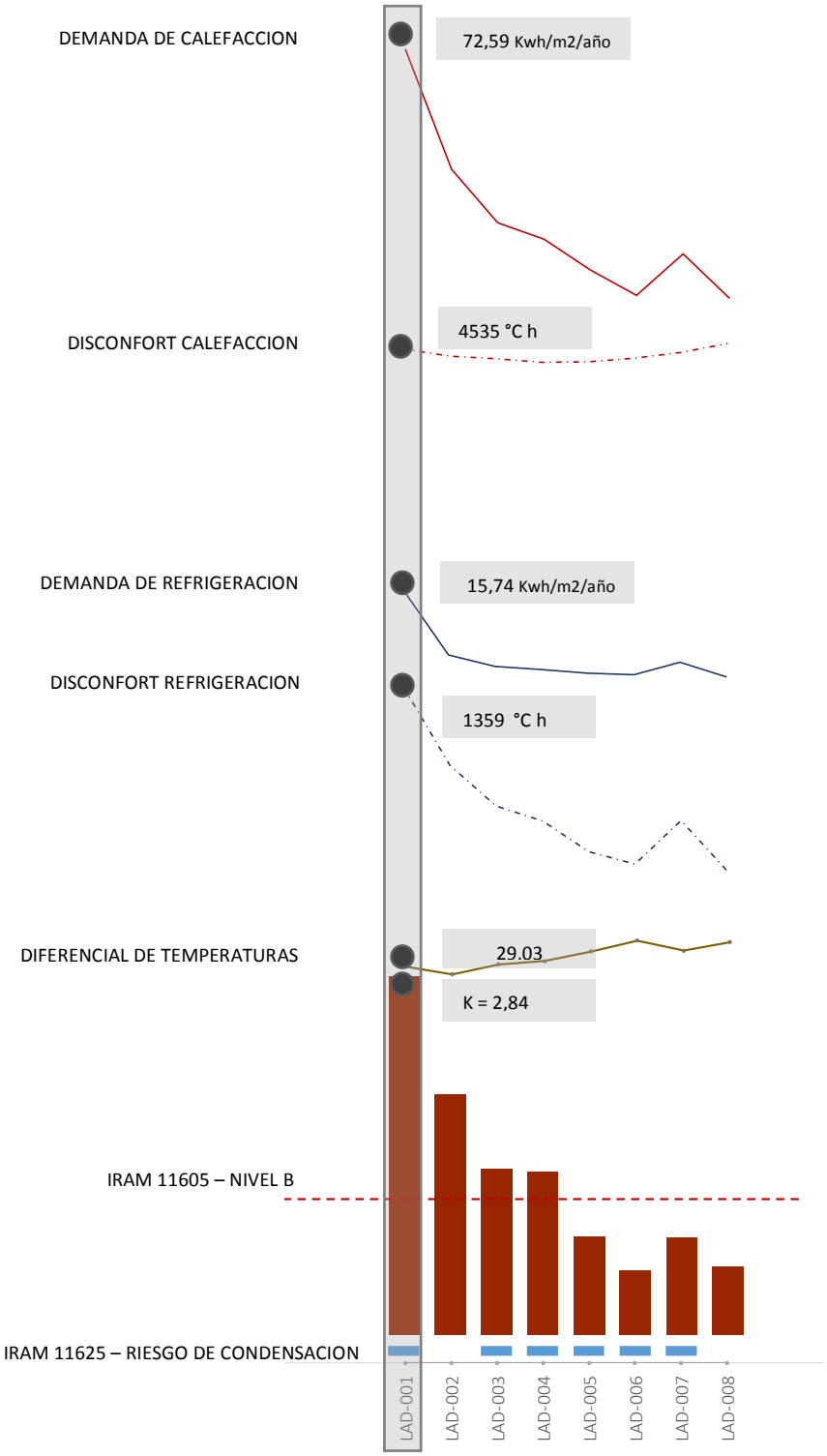



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **550,86** | kWh | 15,74 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **2.540,61** | kWh | 72,59 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **3.091,47** | kWh | **88,33** | kWh/m2/año |

| LAD-001 | MU | LADRILLO COMÚN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 192 | N° 183 | N° 192 | N° 188 | N° 001 | N° 179 |



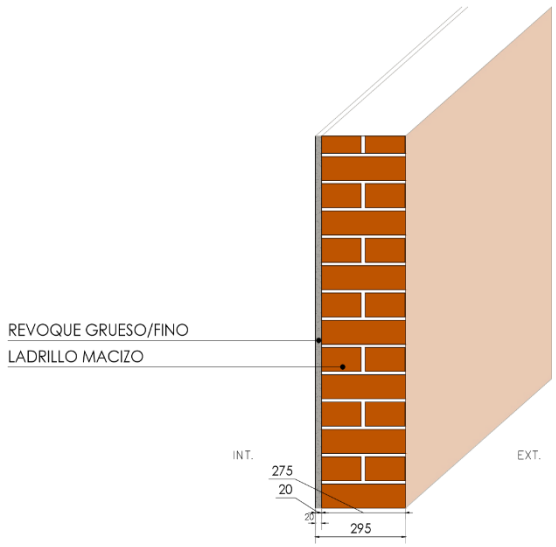

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,24 | 75% | 29,85 | 42,59 | 3,81 | 4494 | 516 |
| INDIVIDUAL | 2,84 | 100% | 29,03 | 72,59 | 15,74 | 4535 | 1359 |
| INC. FAMILIA | 229,03% | 133,33% | 97,25% | 170,44% | 413,12% | 100,91% | 263,37% |
| INC. MUNDIAL | 238,78% | 357,05% | 94,21% | 176,51% | 262,26% | 101,65% | 265,87% |

| LAD-002 | MU | LADRILLO COMÚN |
|---|---|---|

MURO DE 30. LADRILLO COMUN VISTO EXTERIOR CON REVOQUE INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

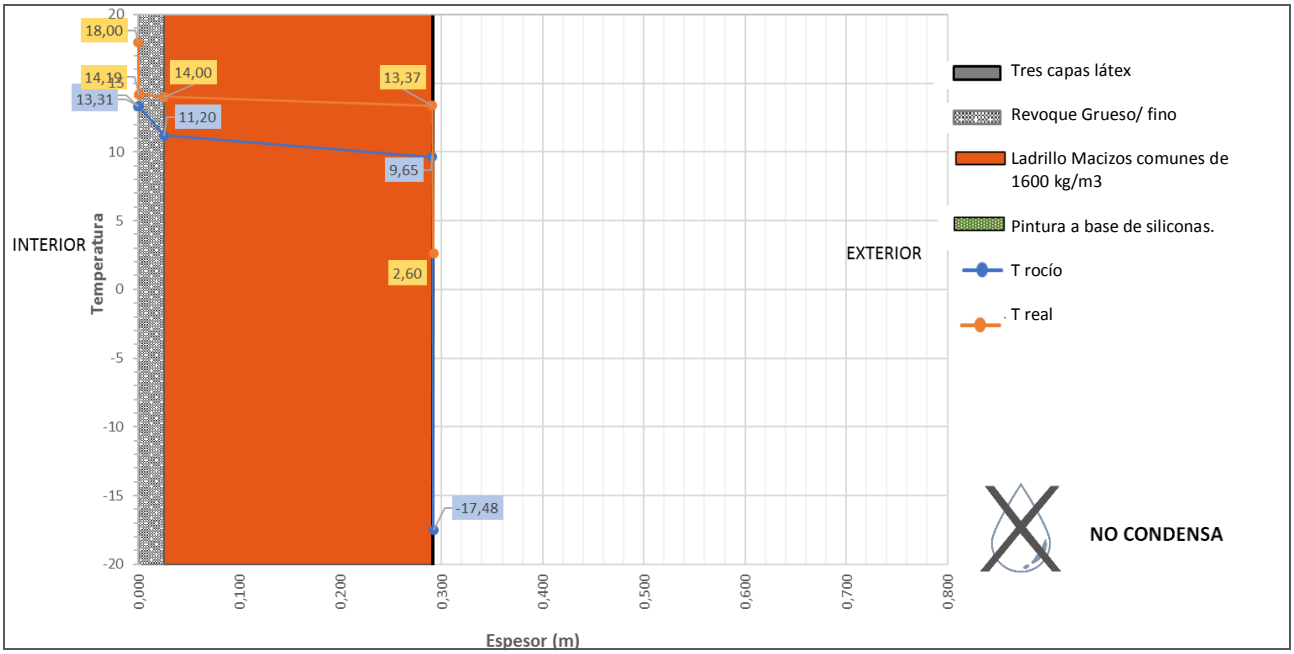
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,90 | 1,90 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



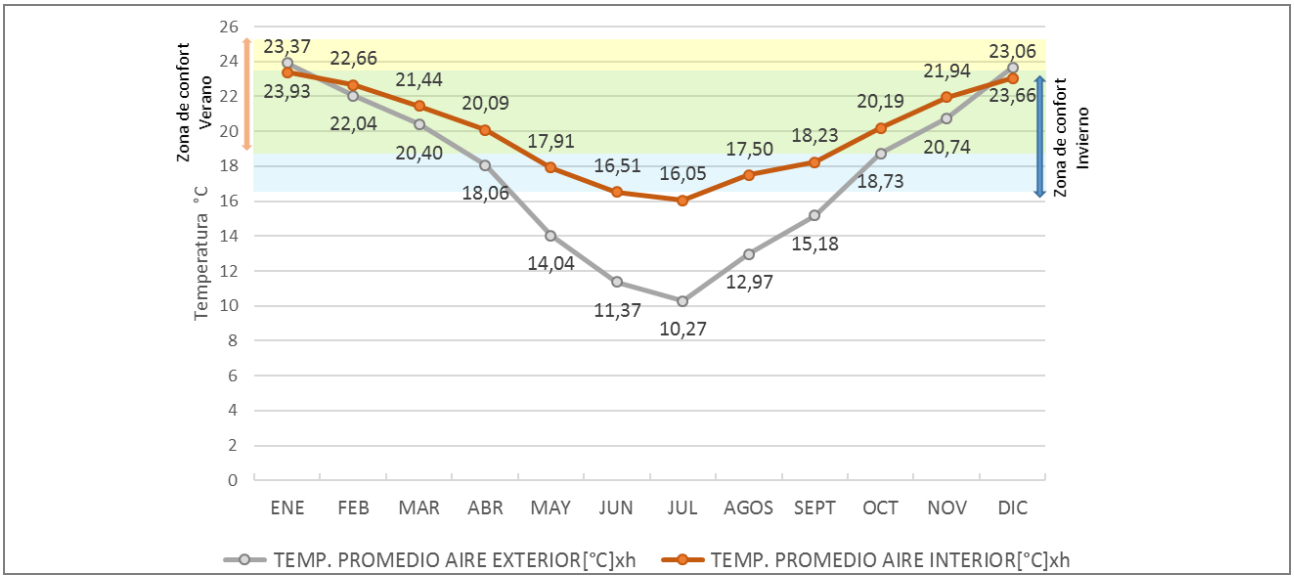

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 352,1 | 352,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,2** | **9,2** |
| | **Amortiguamiento:** | 0,033 | 0,033 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,8** | **7,2** |
| | **Amortiguamiento:** | 0,129 | 0,150 |

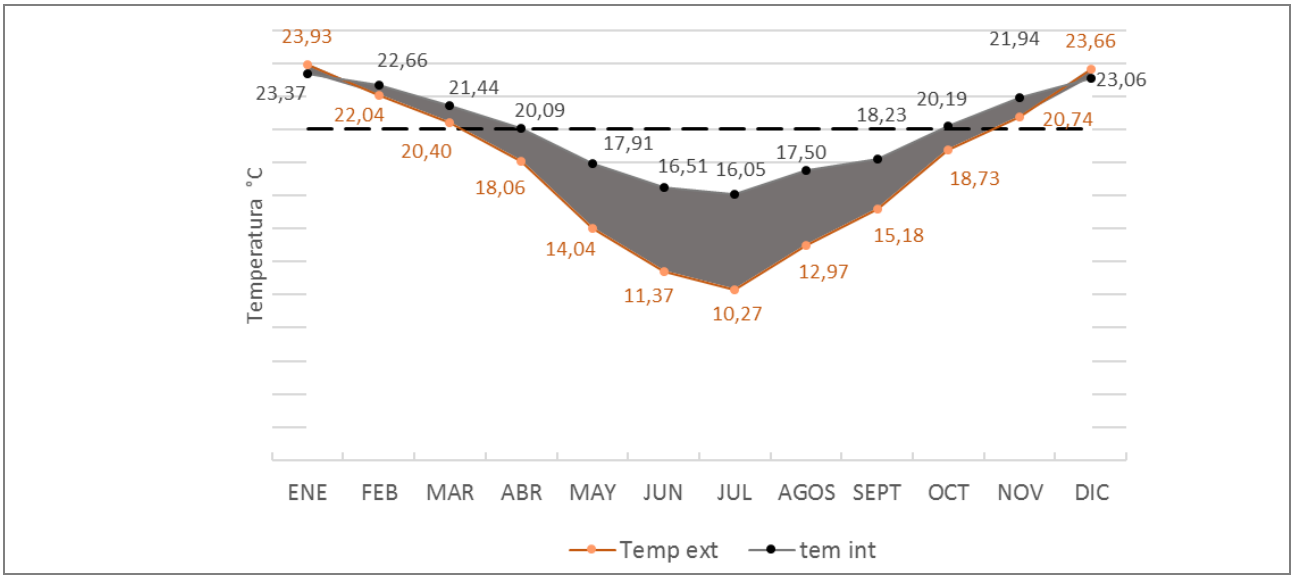
| LAD-002 | MU | LADRILLO COMÚN |
|---|---|---|

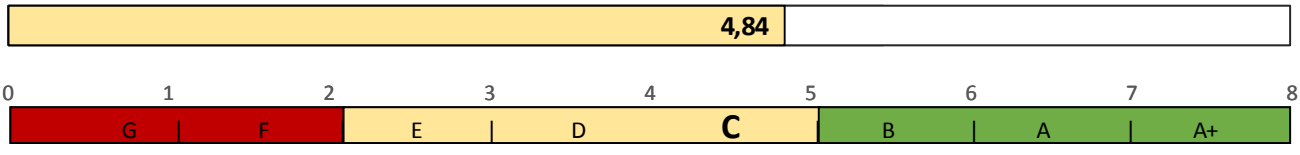
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,67** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,43** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



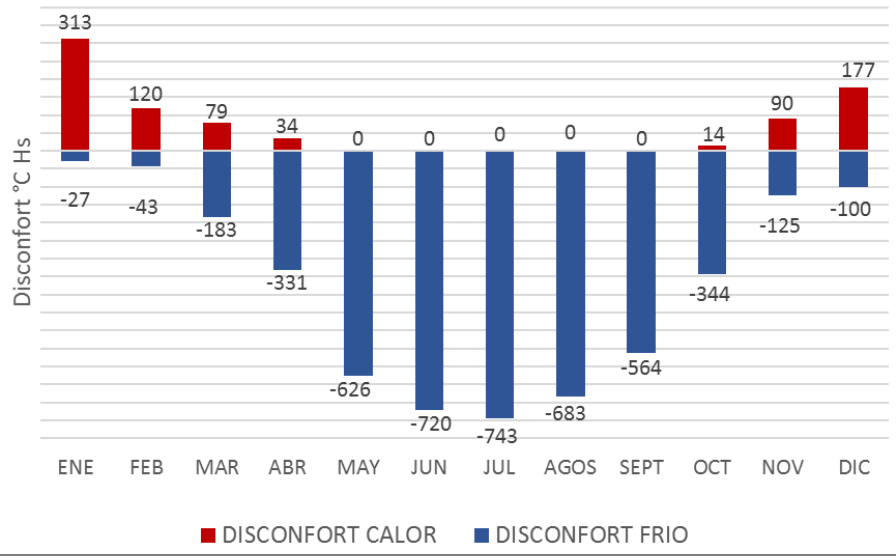




4,84 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,60

| LAD-002 | MU | LADRILLO COMÚN |
|---|---|---|

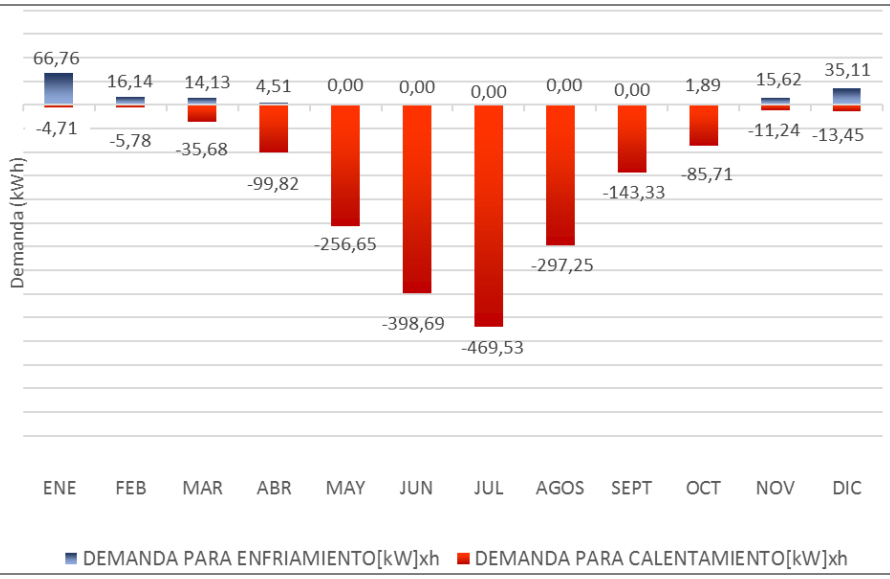
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **827** | °C Hs | 9% |
| HORAS DE DISCONFORT POR FRÍO | **4.489** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.316** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

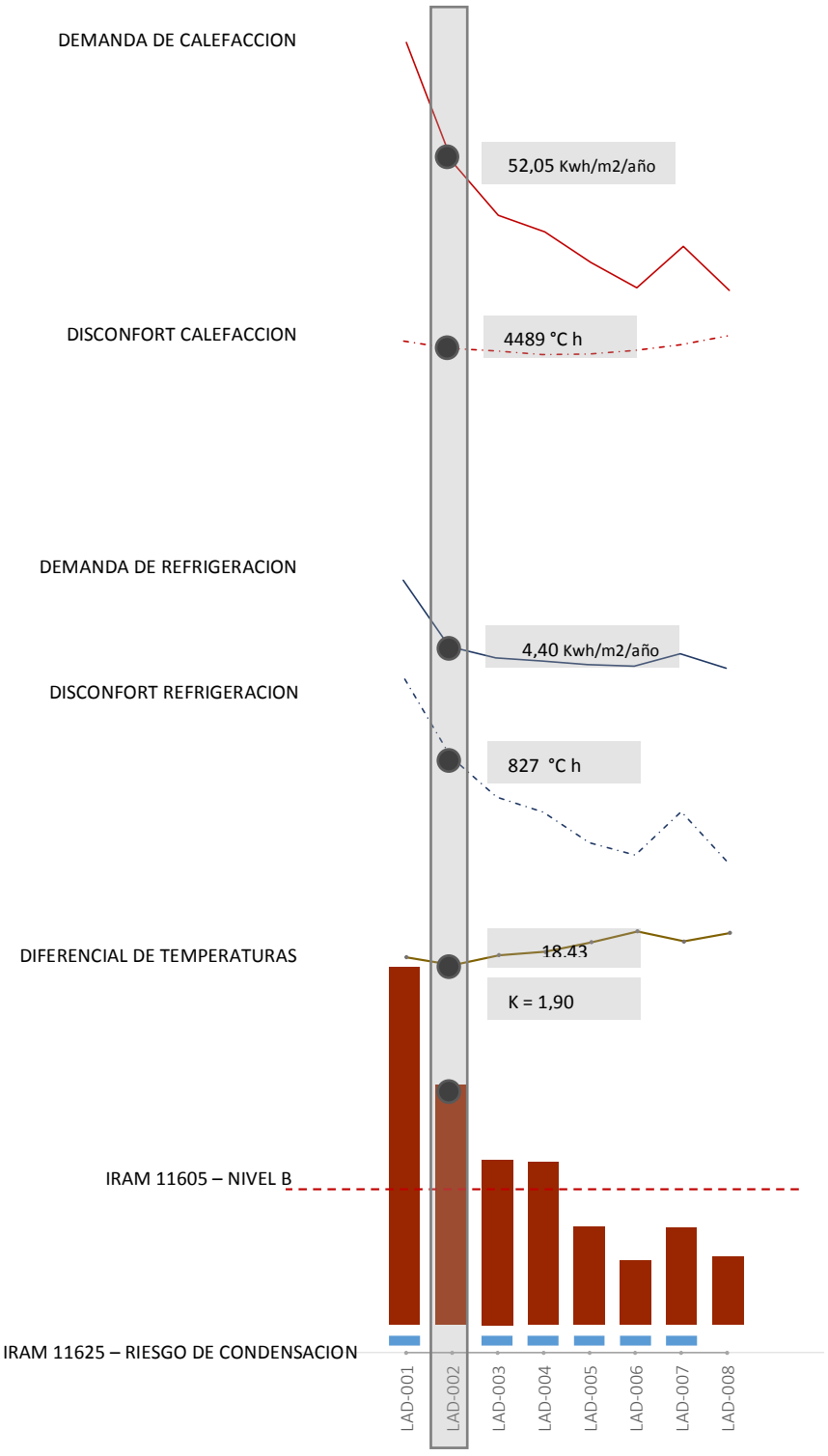



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **154,15** | kWh | 4,40 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.821,84** | kWh | 52,05 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.975,99** | kWh | **56,46** | kWh/m2/año |

| LAD-002 | MU | LADRILLO COMÚN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 184 | N° 189 | N° 183 | N° 180 | N° 046 | N° 184 |



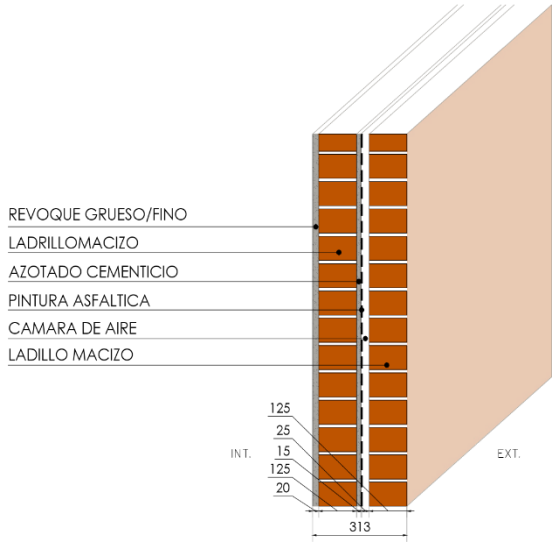

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,24 | 75% | 29,85 | 42,59 | 3,81 | 4173 | 431 |
| INDIVIDUAL | 1,9 | 0% | 28,43 | 52,05 | 4,4 | 4489 | 827 |
| INC. FAMILIA | 153,23% | 0,00% | 95,24% | 122,21% | 115,49% | 107,57% | 192,04% |
| INC. MUNDIAL | 159,75% | 0,00% | 92,26% | 126,56% | 73,31% | 100,61% | 161,79% |

| LAD-003 | MU | LADRILLO COMÚN |
|---|---|---|

MURO DOBLE LADRILLO VISTO EXTERIOR E INTERIOR CON CAMARA DE AIRE 2,5 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

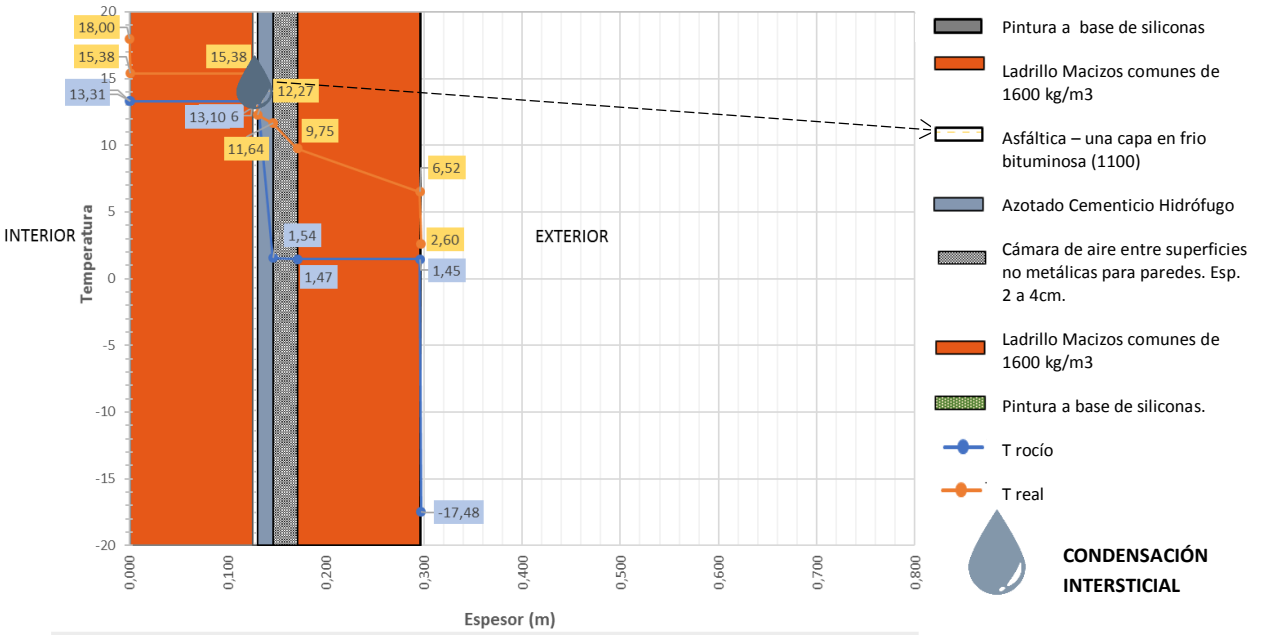
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,31 | 1,31 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



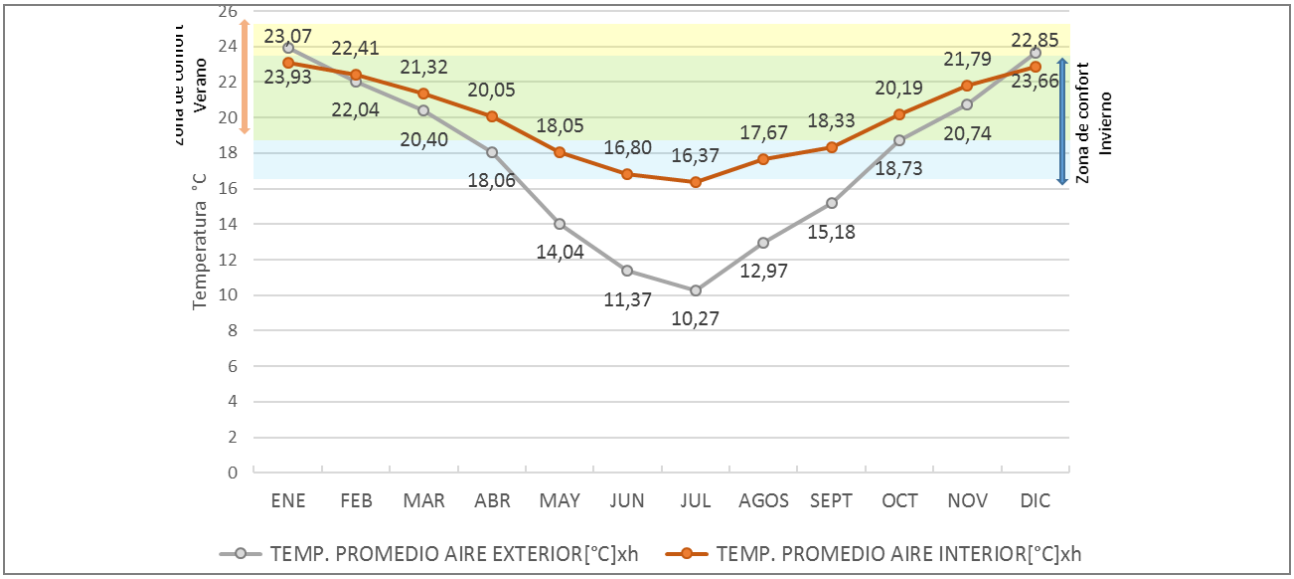

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 163,4 | 163,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **10,5** | **10,5** |
| | **Amortiguamiento:** | 0,021 | 0,021 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,4** | **7,6** |
| | **Amortiguamiento:** | 0,110 | 0,137 |

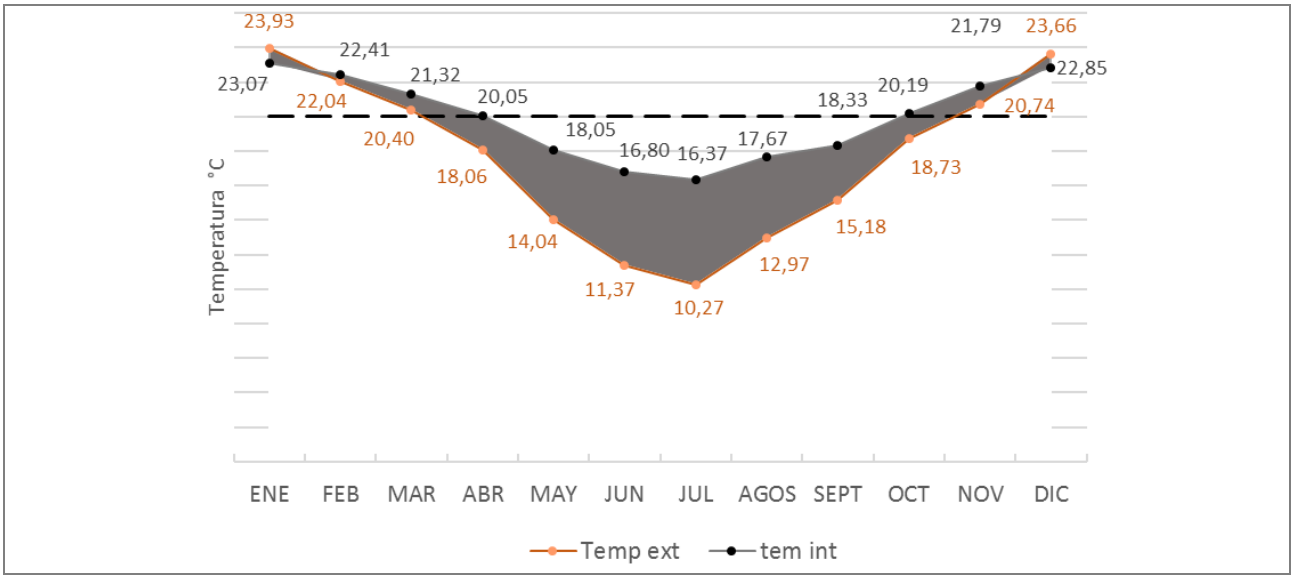
| LAD-003 | MU | LADRILLO COMÚN |
|---|---|---|

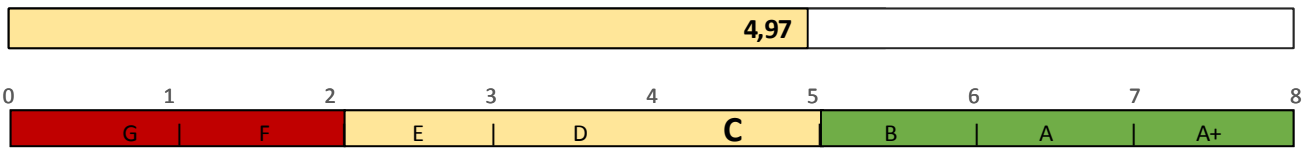
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,93** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,22** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



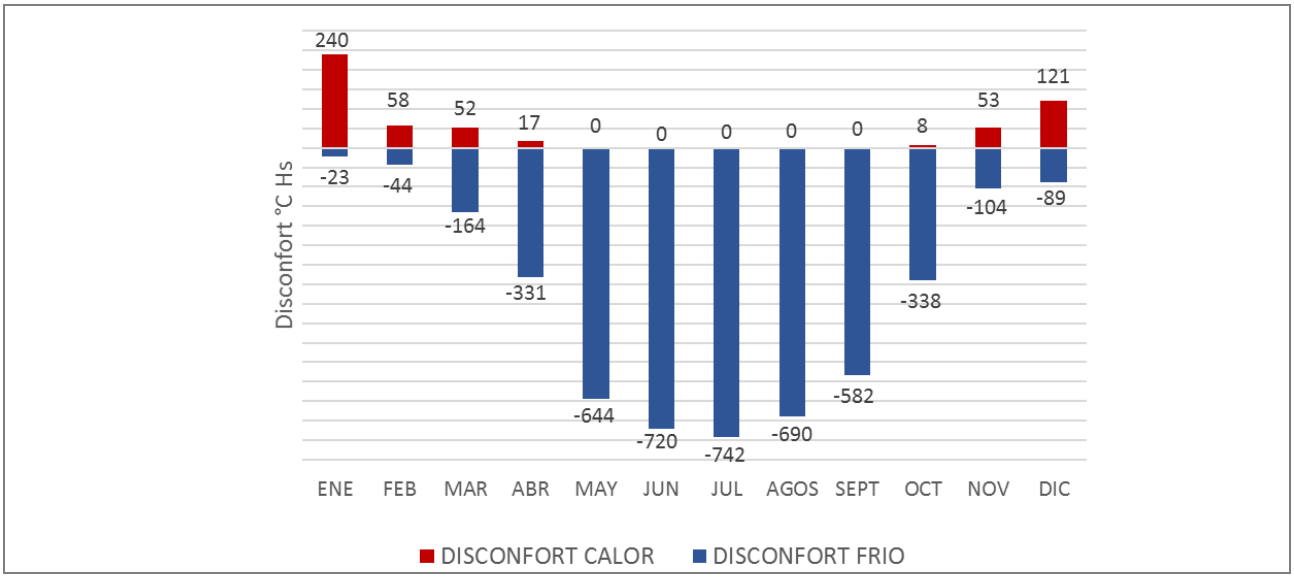




4.97 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.62

| LAD-003 | MU | LADRILLO COMÚN |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

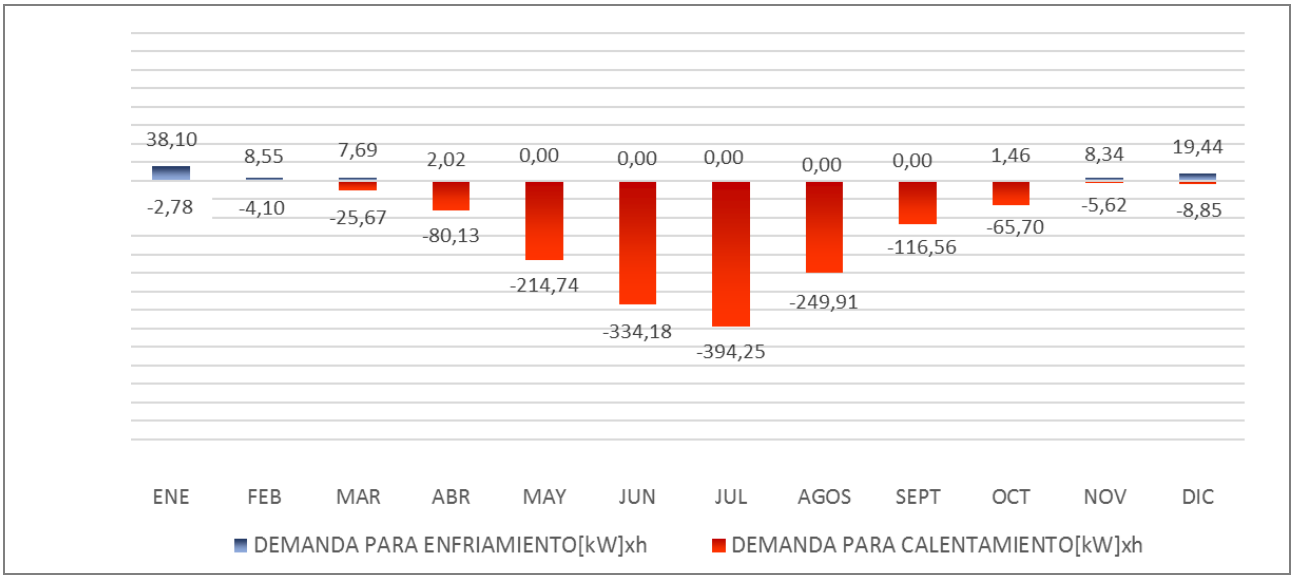
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **549** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.470** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.01** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

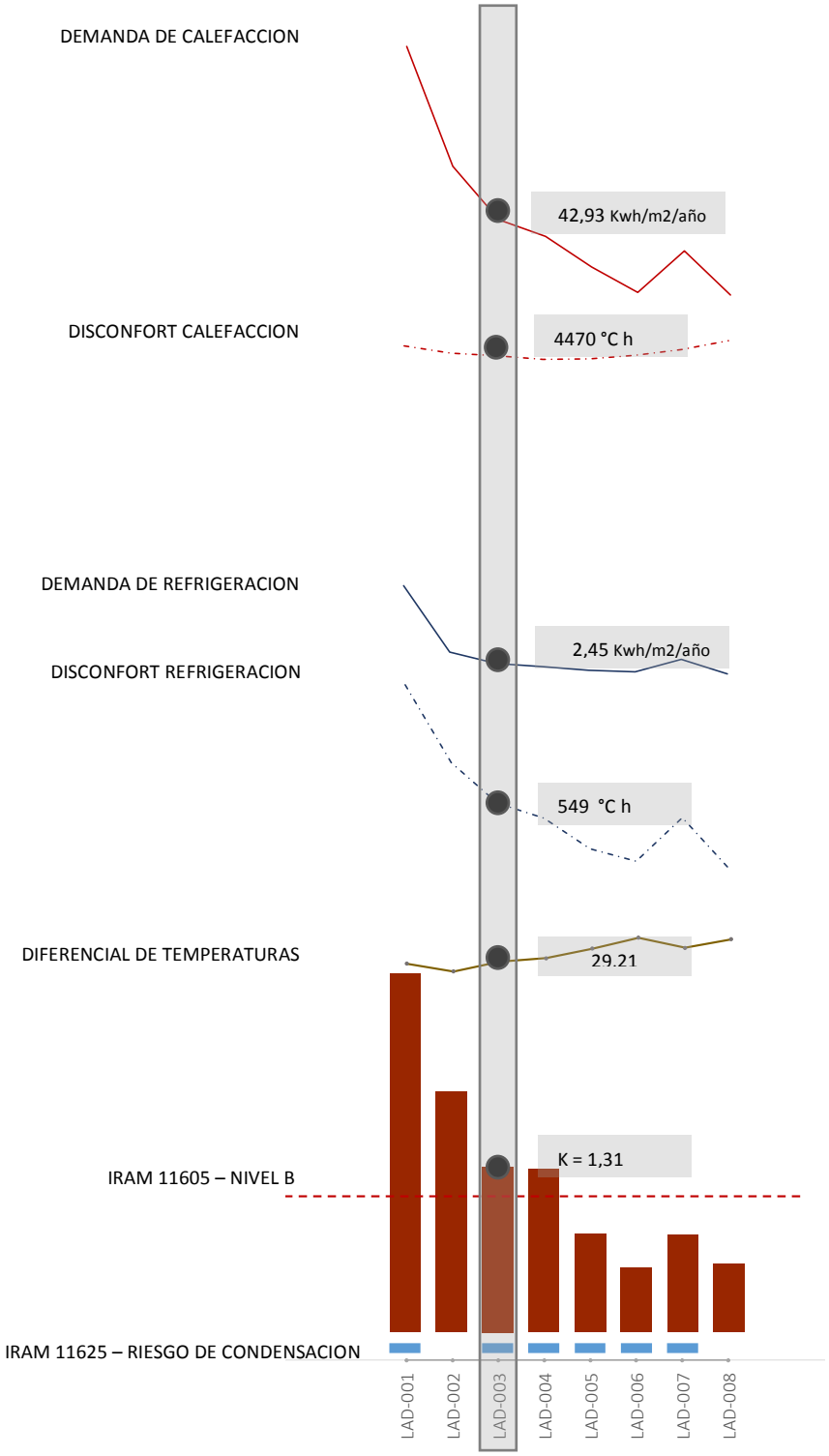



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **85,59** | kWh | 2,45 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.502,49** | kWh | 42,93 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.588,09** | kWh | **45,37** | kWh/m2/año |

| LAD-003 | MU | LADRILLO COMÚN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 179 | N° 179 | N° 175 | N° 158 | N° 027 | N° 176 |



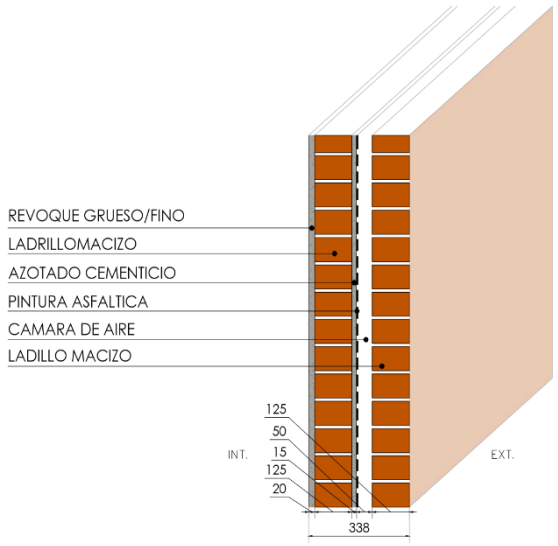

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,24 | 75% | 29,85 | 42,59 | 3,81 | 4173 | 431 |
| INDIVIDUAL | 1,31 | 100% | 29,21 | 42,93 | 2,45 | 4470 | 549 |
| INC. FAMILIA | 105,65% | 133,33% | 97,86% | 100,80% | 64,30% | 107,12% | 127,49% |
| INC. MUNDIAL | 110,14% | 357,05% | 94,80% | 104,39% | 40,82% | 100,19% | 107,40% |

| LAD-004 | MU | LADRILLO COMÚN |
|---|---|---|

MURO DOBLE LADRILLO VISTO EXTERIOR E INTERIOR CON CAMARA DE AIRE 5 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

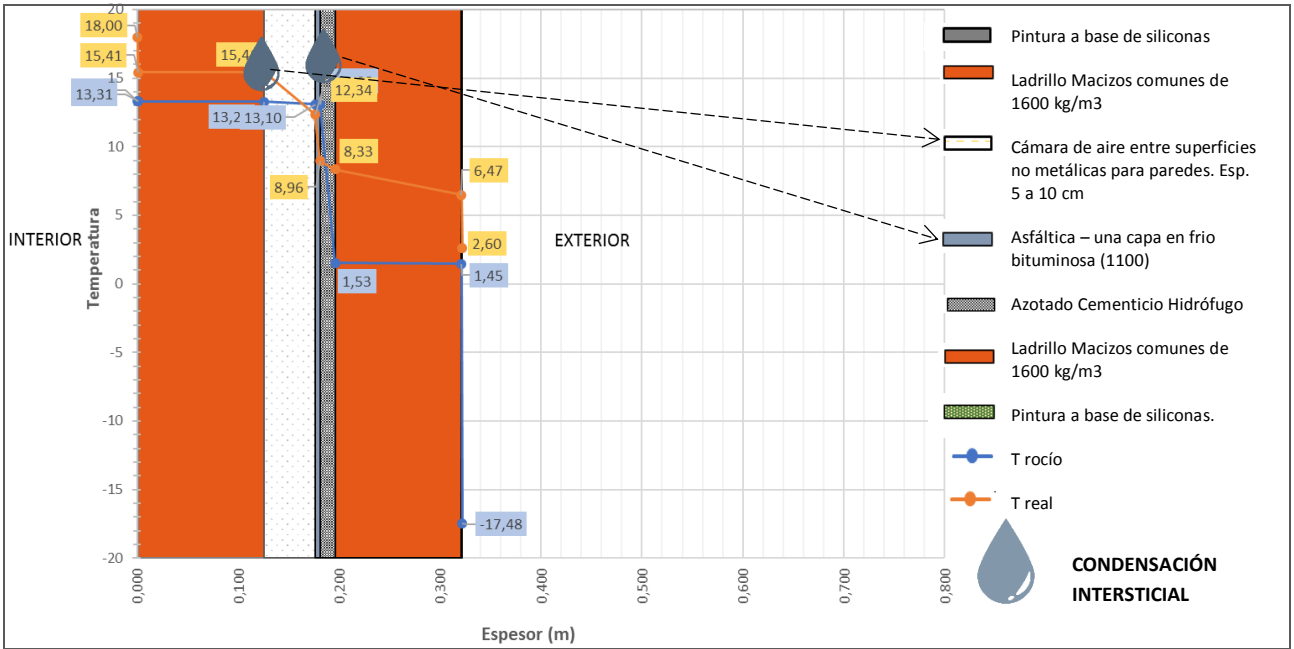
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,29 | 1,29 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



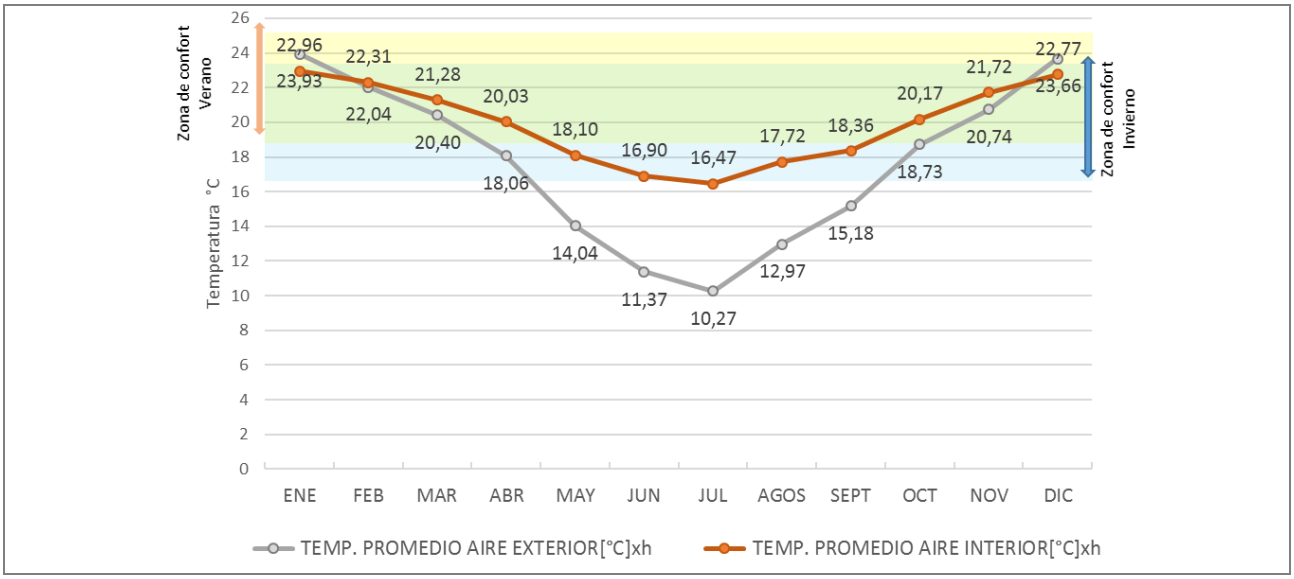

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 160,6 | 160,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **10,6** | **10,6** |
| | **Amortiguamiento:** | 0,020 | 0,020 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,6** | **7,6** |
| | **Amortiguamiento:** | 0,106 | 0,138 |

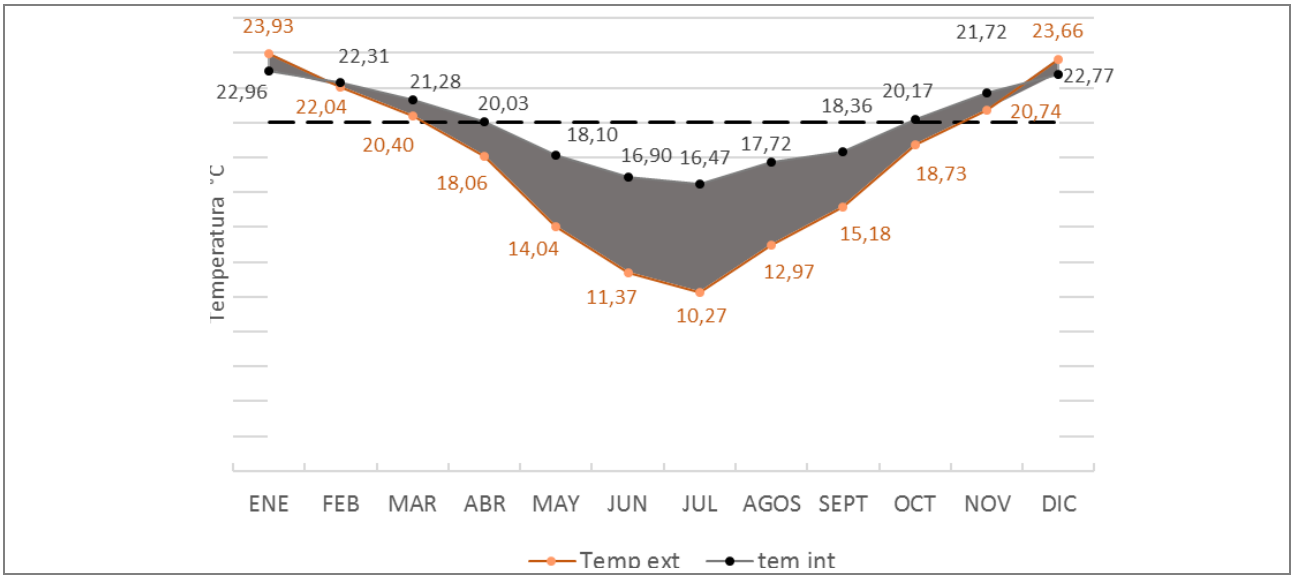
| LAD-004 | MU | LADRILLO COMÚN |
|---|---|---|

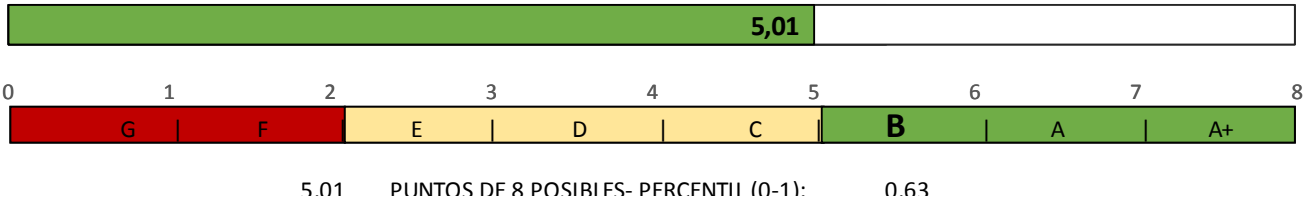
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,65** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,52** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



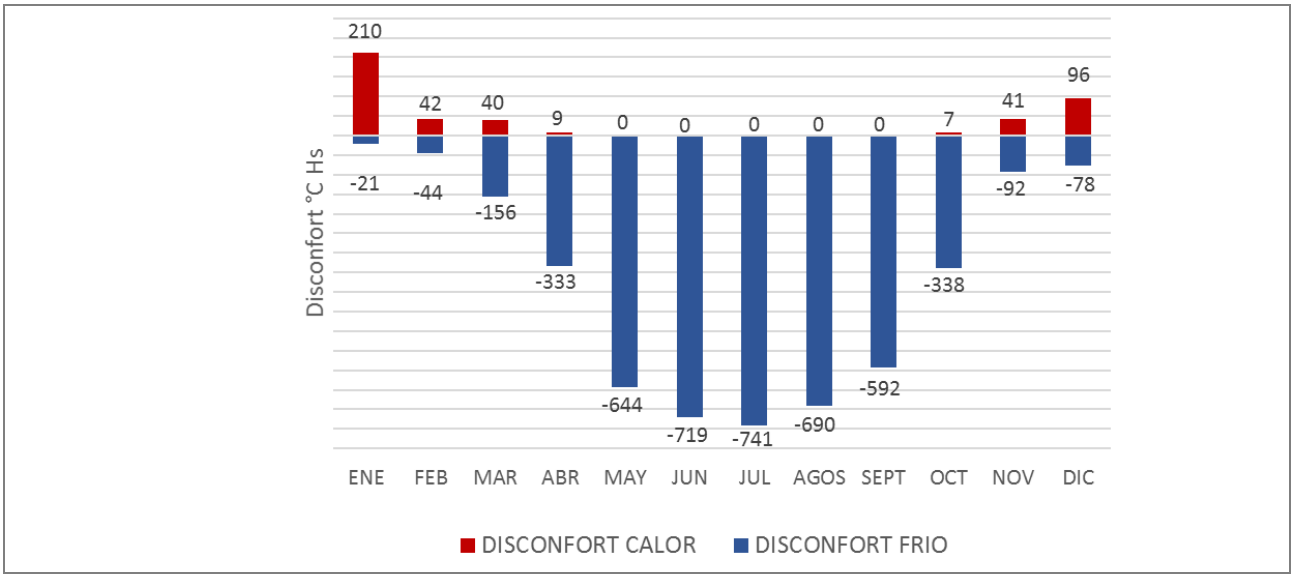




5,01 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| LAD-004 | MU | LADRILLO COMÚN |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

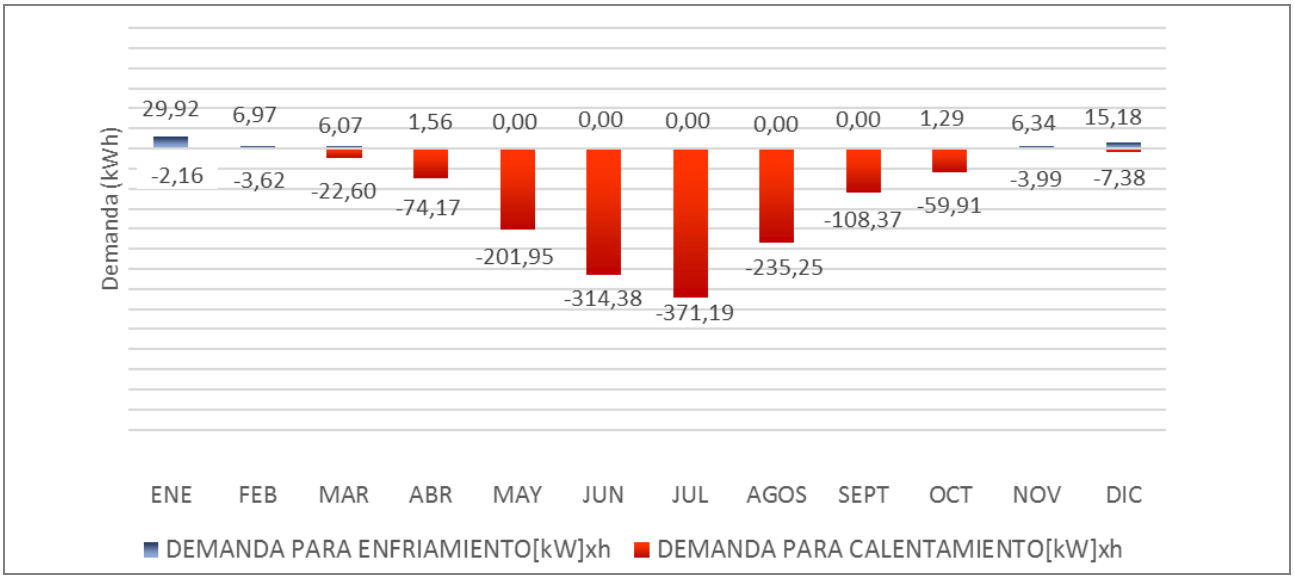
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **446** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.448** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.894** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

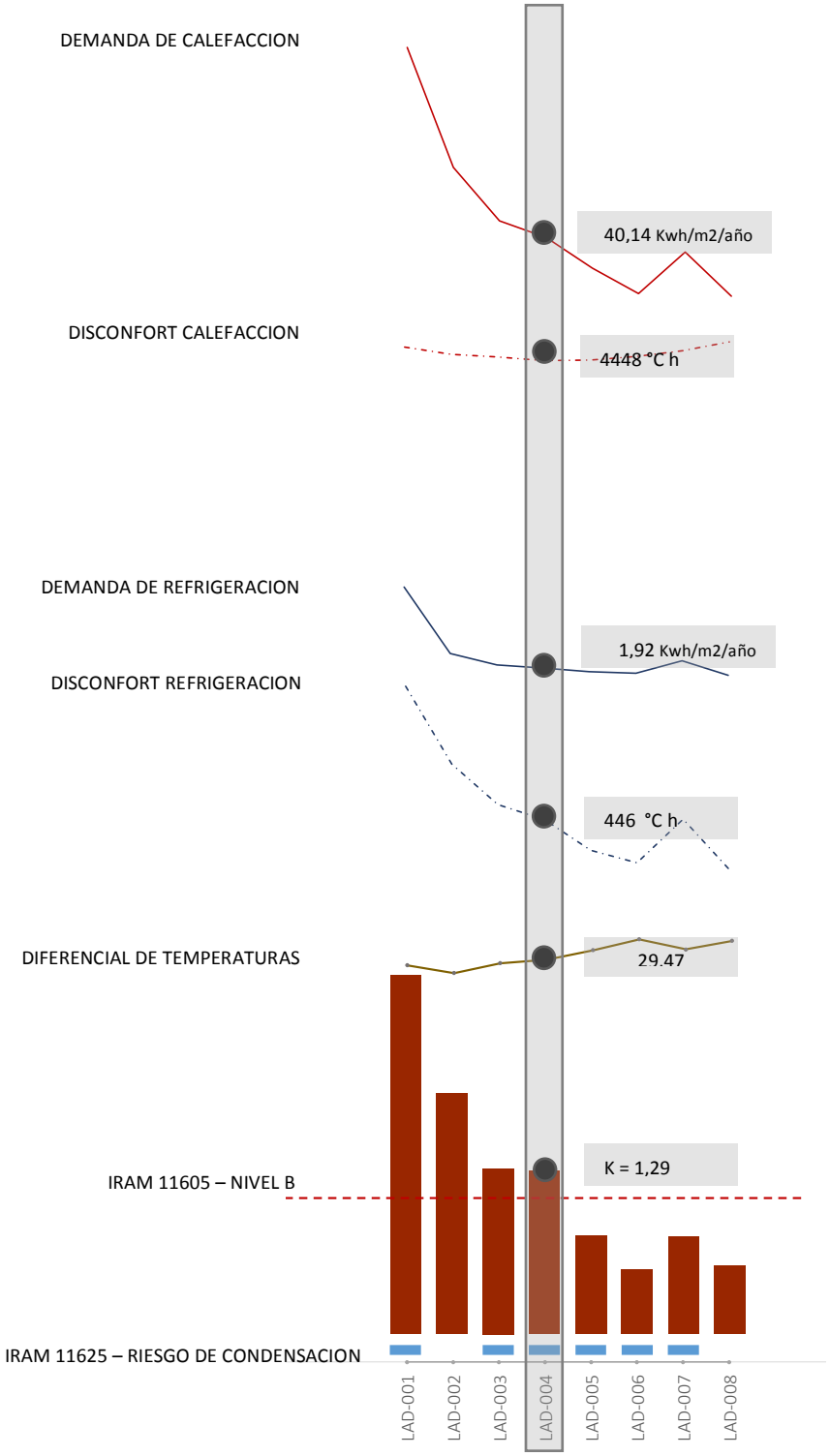



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **67,33** | kWh | 1,92 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.404,96** | kWh | 40,14 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.472,30** | kWh | **42,07** | kWh/m2/año |

| LAD-004 | MU | LADRILLO COMÚN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 178 | N° 173 | N° 169 | N° 145 | N° 016 | N° 167 |



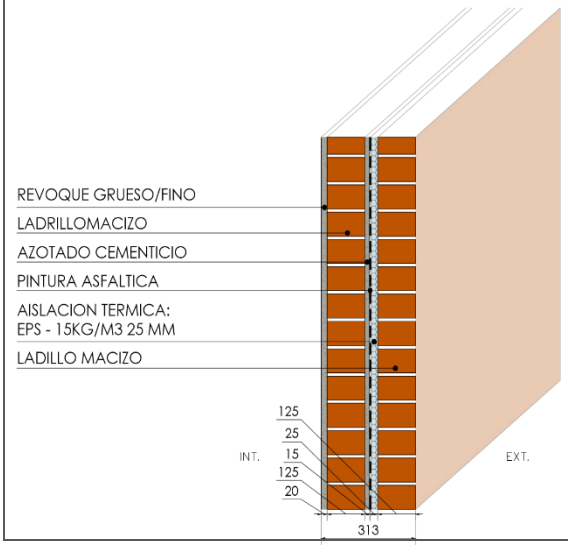

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,24 | 75% | 29,85 | 42,59 | 3,81 | 4173 | 431 |
| INDIVIDUAL | 1,29 | 100% | 29,47 | 40,14 | 1,92 | 4448 | 446 |
| INC. FAMILIA | 104,03% | 133,33% | 98,73% | 94,25% | 50,39% | 106,59% | 103,57% |
| INC. MUNDIAL | 108,46% | 357,05% | 95,64% | 97,60% | 31,99% | 99,70% | 87,25% |

| LAD-005 | MU | LADRILLO COMÚN |
|---|---|---|

MURO DOBLE LADRILLO VISTO EXTERIOR E INTERIOR CON POLIESTIRENO 2,5 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

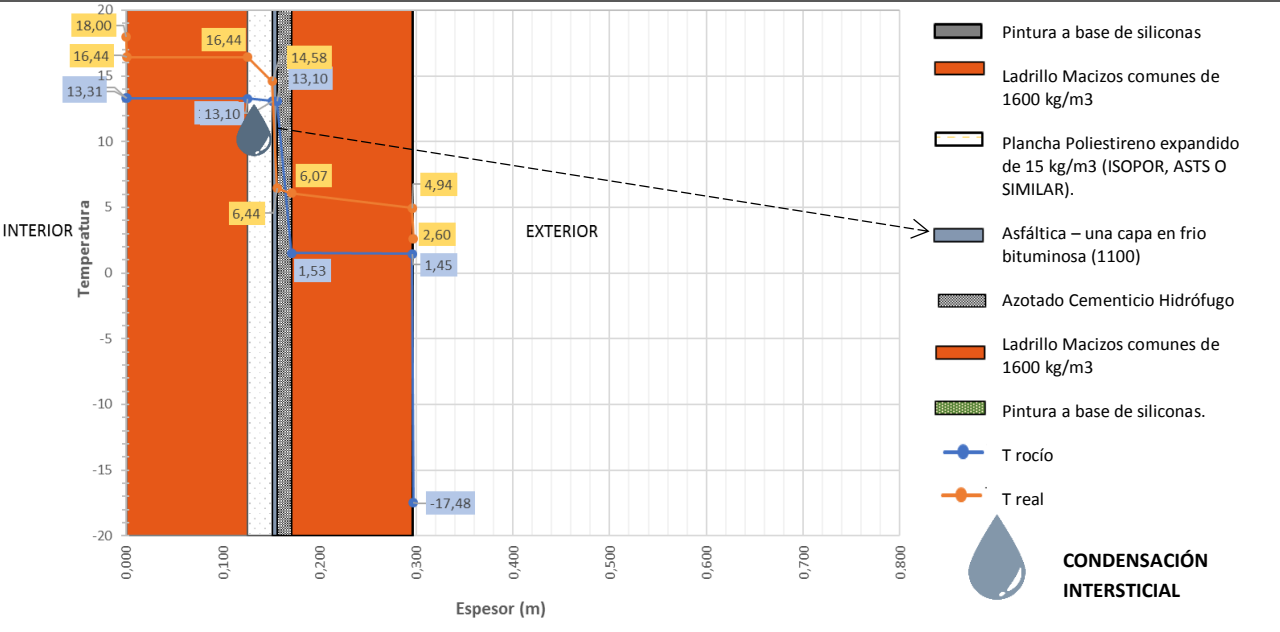
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,78 | 0,78 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



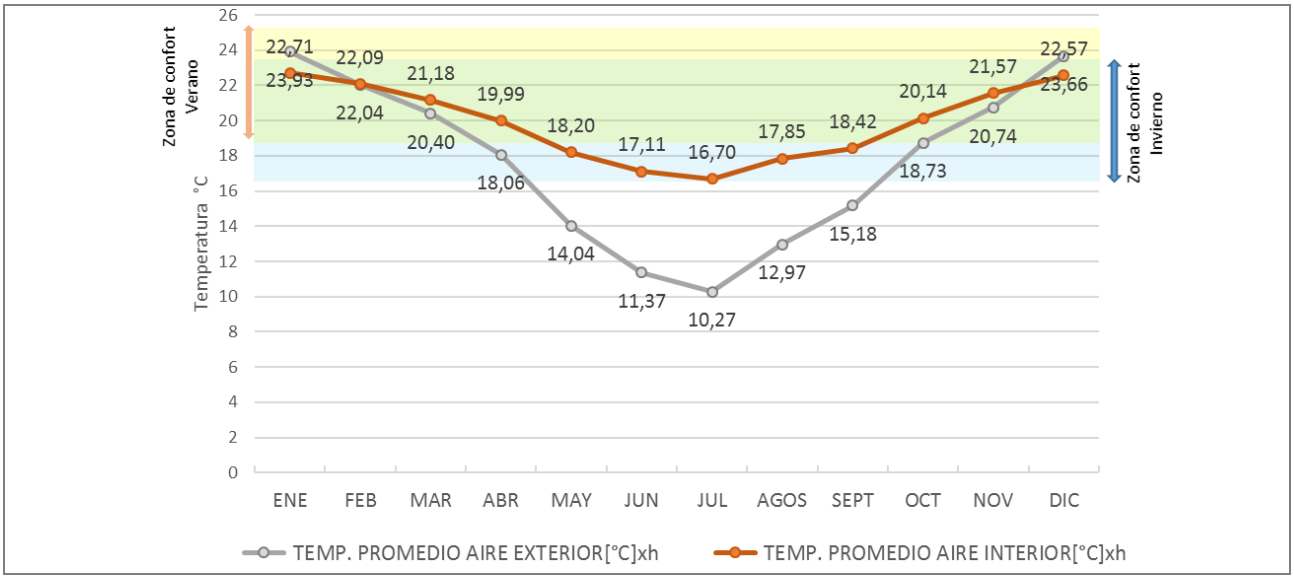

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 87,5 | 87,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,3** | **14,3** |
| | **Amortiguamiento:** | 0,005 | 0,005 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,9** | **9,9** |
| | **Amortiguamiento:** | 0,058 | 0,075 |

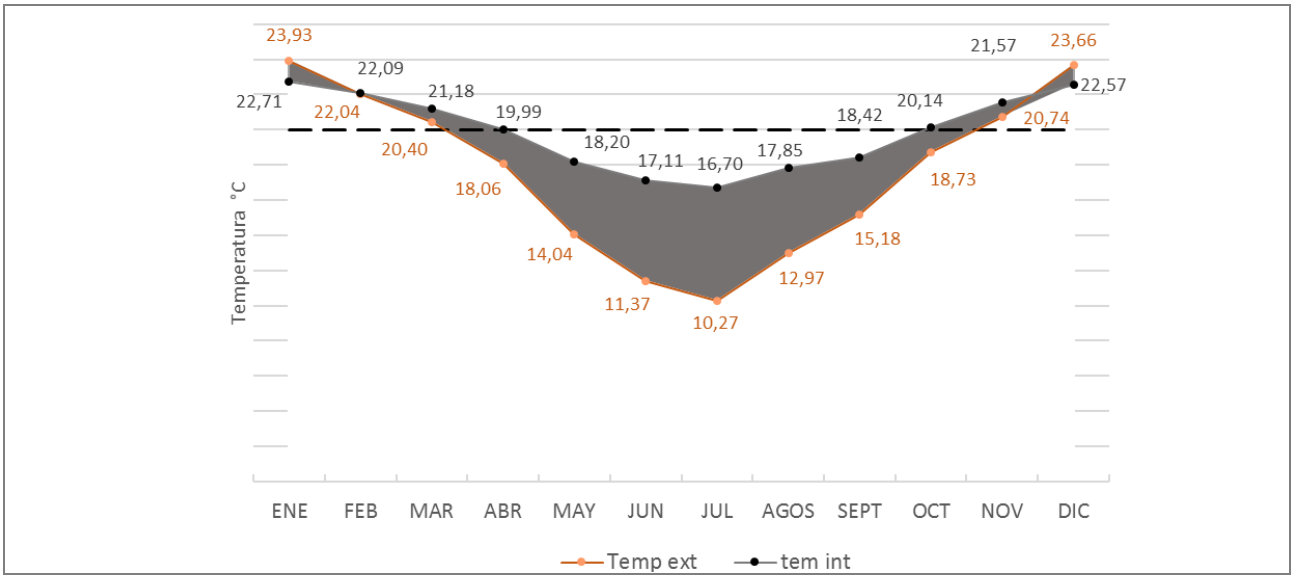
| LAD-005 | MU | LADRILLO COMÚN |
|---|---|---|

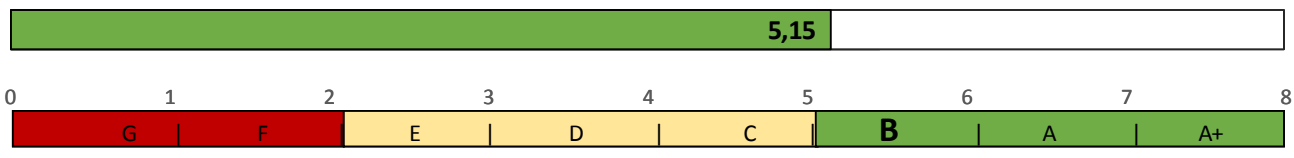
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **25,08** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,14** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



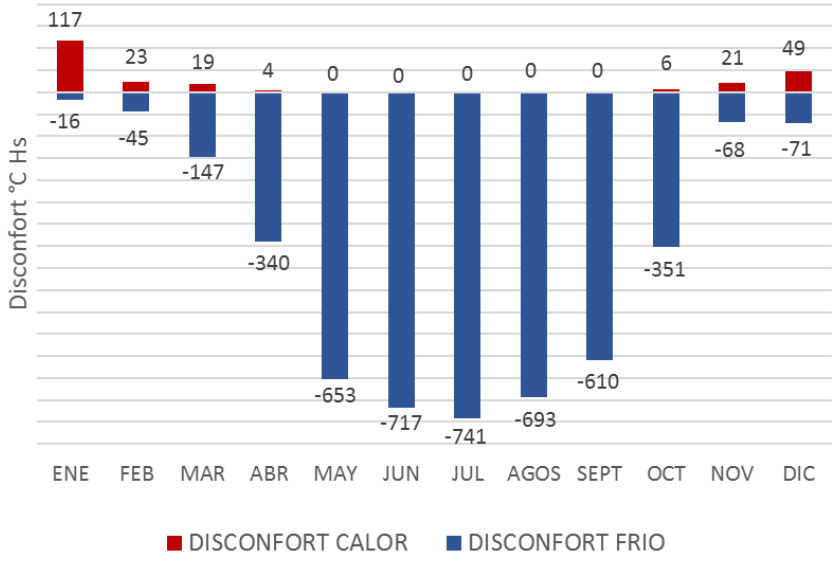




5,15 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| LAD-005 | MU | LADRILLO COMÚN |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

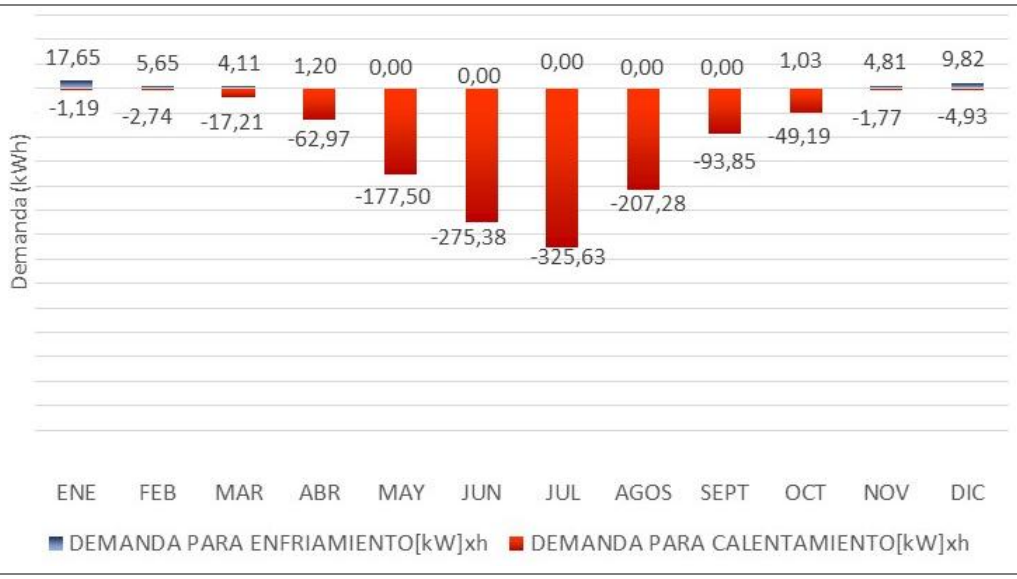
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **239** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.452** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.690** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

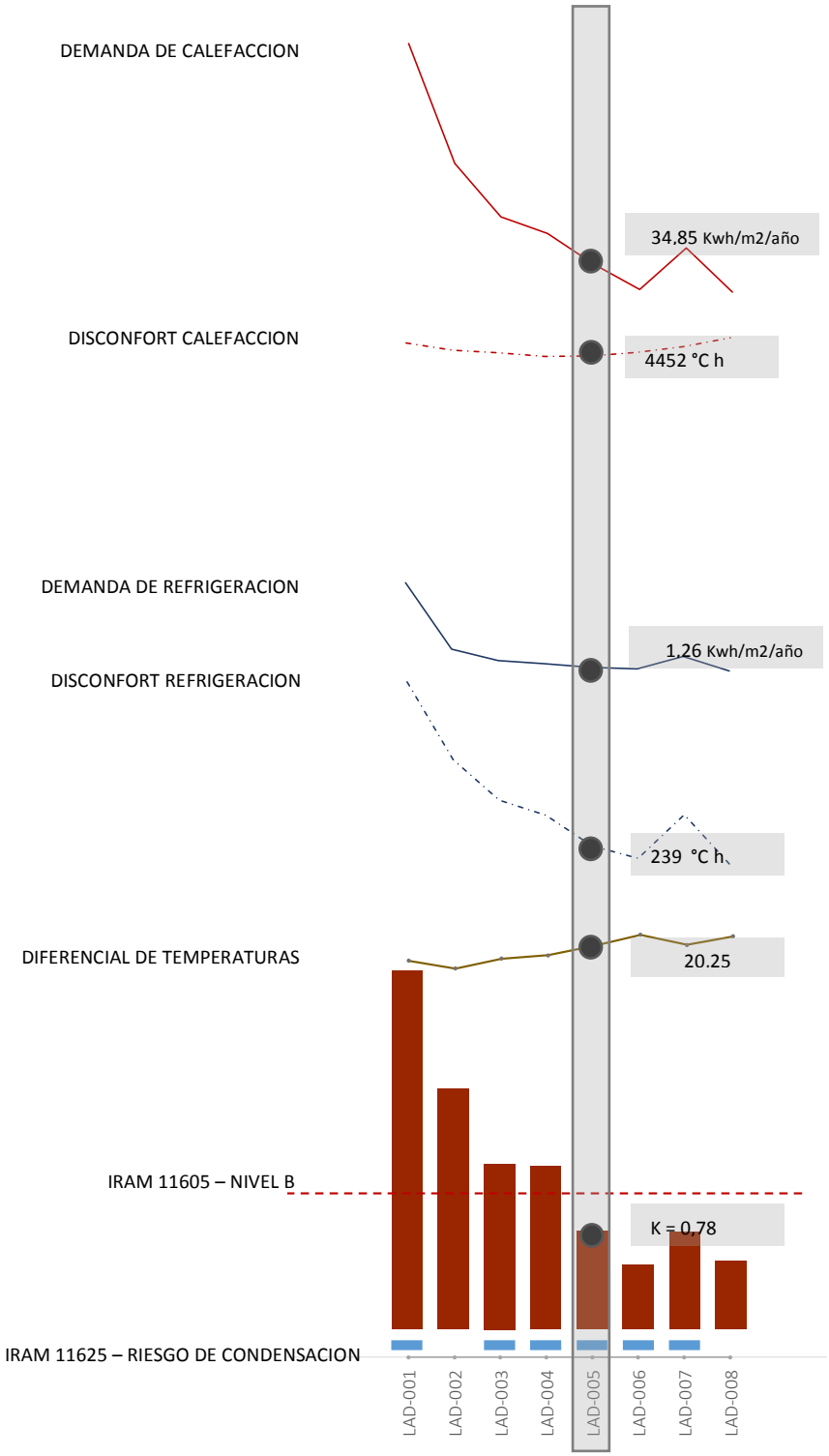



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **44,26** | kWh | 1,26 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.219,65** | kWh | 34,85 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.263,91** | kWh | **36,11** | kWh/m2/año |

| LAD-005 | MU | LADRILLO COMÚN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 162 | N° 162 | N° 148 | N° 076 | N° 017 | N° 128 |



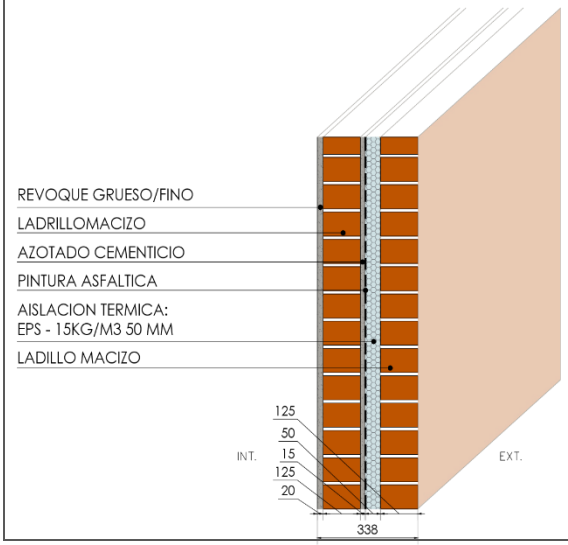

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,24 | 75% | 29,85 | 42,59 | 3,81 | 4173 | 431 |
| INDIVIDUAL | 0,78 | 100% | 30,25 | 34,85 | 1,26 | 4452 | 239 |
| INC. FAMILIA | 62,90% | 133,33% | 101,34% | 81,83% | 33,07% | 106,69% | 55,50% |
| INC. MUNDIAL | 65,58% | 357,05% | 98,17% | 84,74% | 20,99% | 99,79% | 46,76% |

| LAD-006 | MU | LADRILLO COMÚN |
|---|---|---|

MURO DOBLE LADRILLO VISTO EXTERIOR E INTERIOR CON POLIESTIRENO 5 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

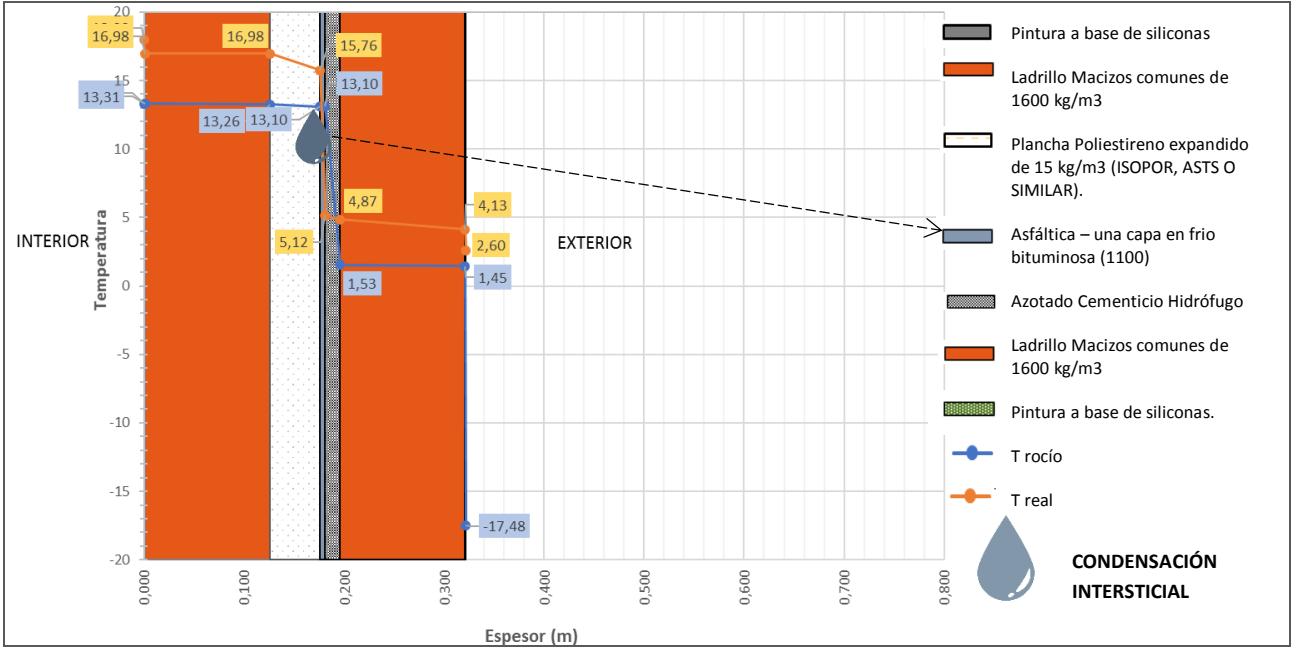
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,51 | 0,51 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



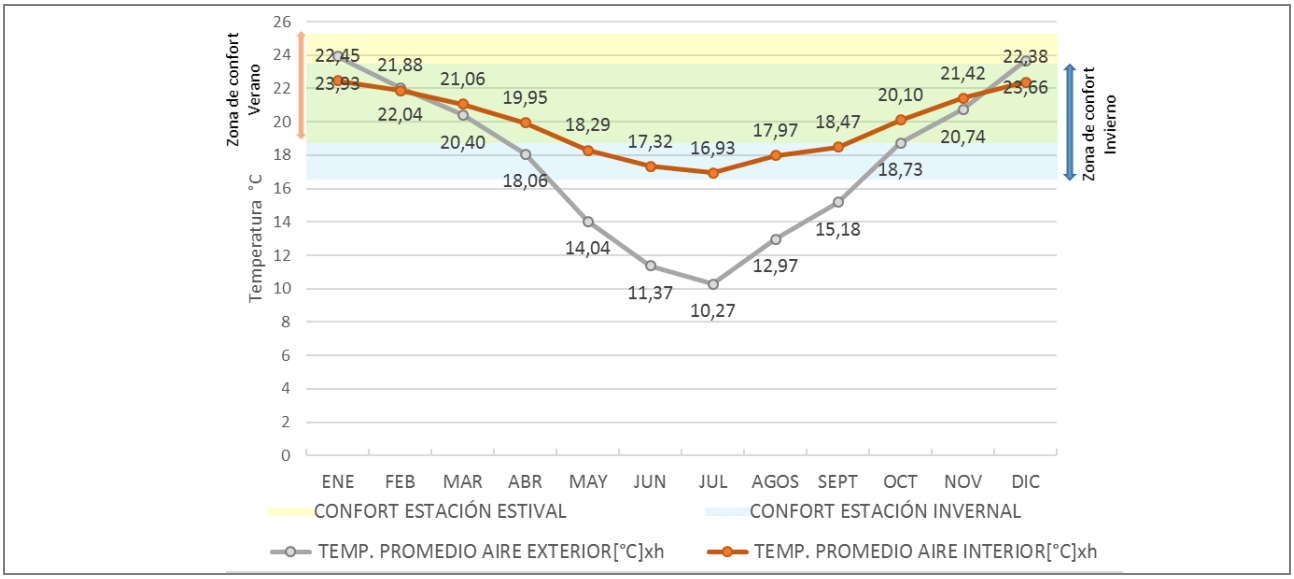

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 54,4 | 54,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **18,2** | **18,2** |
| | **Amortiguamiento:** | 0,001 | 0,001 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **13,3** | **12,3** |
| | **Amortiguamiento:** | 0,030 | 0,040 |

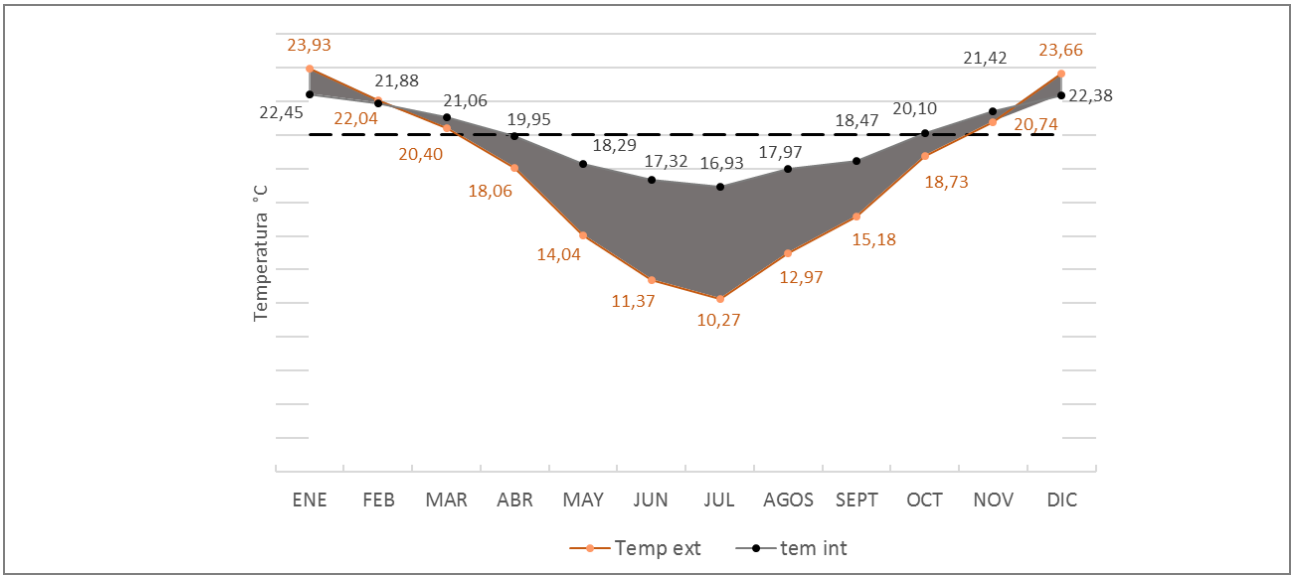
| LAD-006 | MU | LADRILLO COMÚN |
|---|---|---|

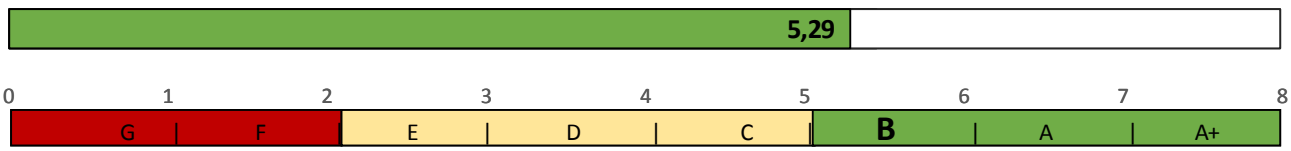
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,69** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,68** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



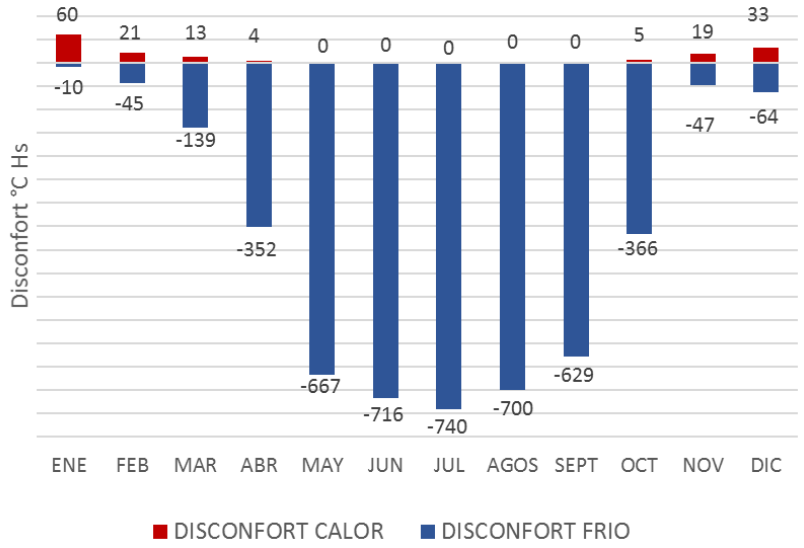




5,29 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| LAD-006 | MU | LADRILLO COMÚN |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

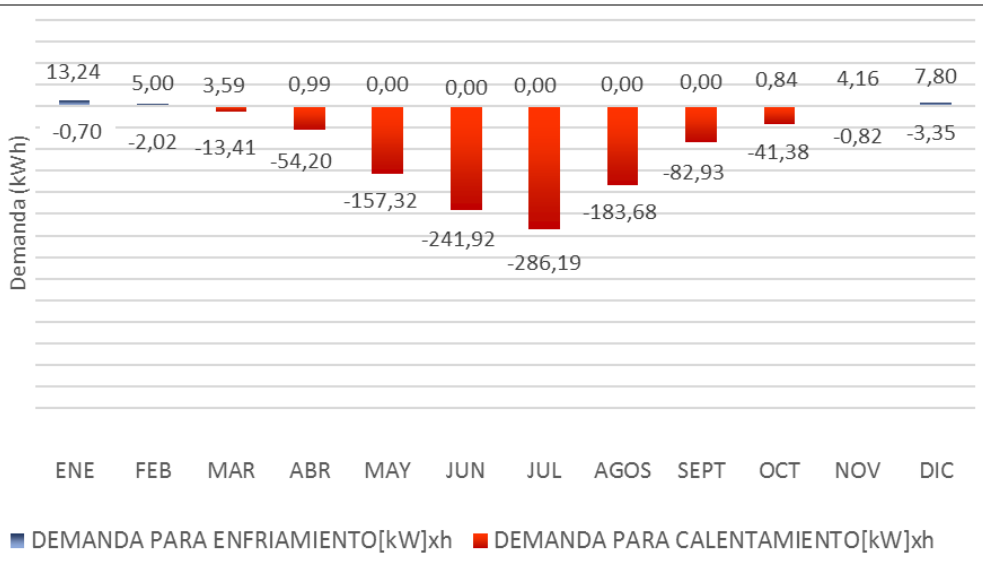
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **155** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.475** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.629** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

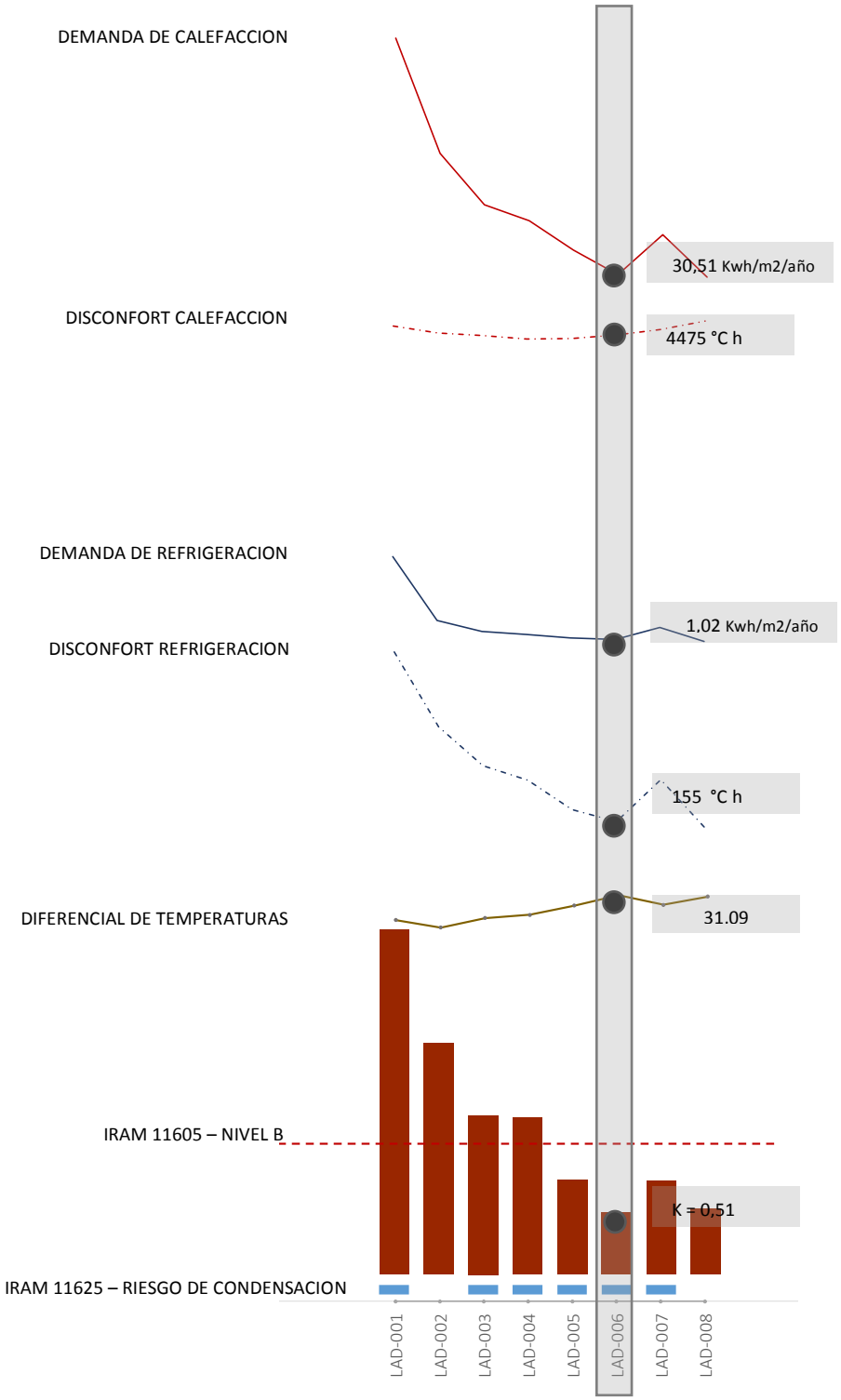



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **35,62** | kWh | 1,02 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.067,91** | kWh | 30,51 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.103,53** | kWh | **31,53** | kWh/m2/año |

| LAD-006 | MU | LADRILLO COMÚN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 124 | N° 102 | N° 085 | N° 029 | N° 031 | N° 028 |



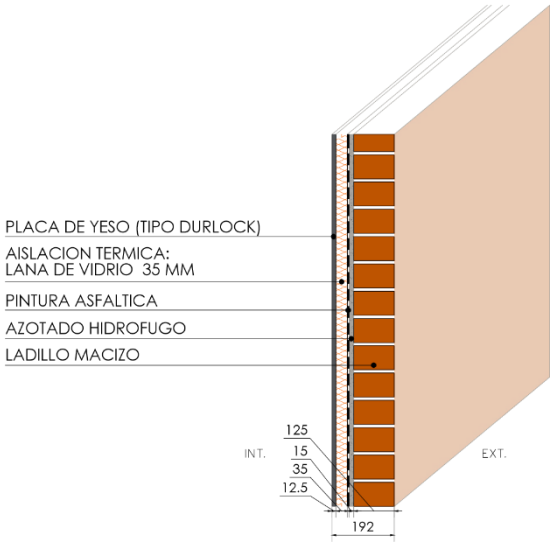

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,24 | 75% | 29,85 | 42,59 | 3,81 | 4173 | 431 |
| INDIVIDUAL | 0,51 | 100% | 31,09 | 30,51 | 1,02 | 4475 | 155 |
| INC. FAMILIA | 41,13% | 133,33% | 104,15% | 71,64% | 26,77% | 107,24% | 35,99% |
| INC. MUNDIAL | 42,88% | 357,05% | 100,90% | 74,19% | 17,00% | 100,30% | 30,32% |

| LAD-007 | MU | LADRILLO COMÚN |
|---|---|---|

MURO DOBLE LADRILLO VISTO EXTERIOR CON LANA DE VIDRIO Y YESO CARTON INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

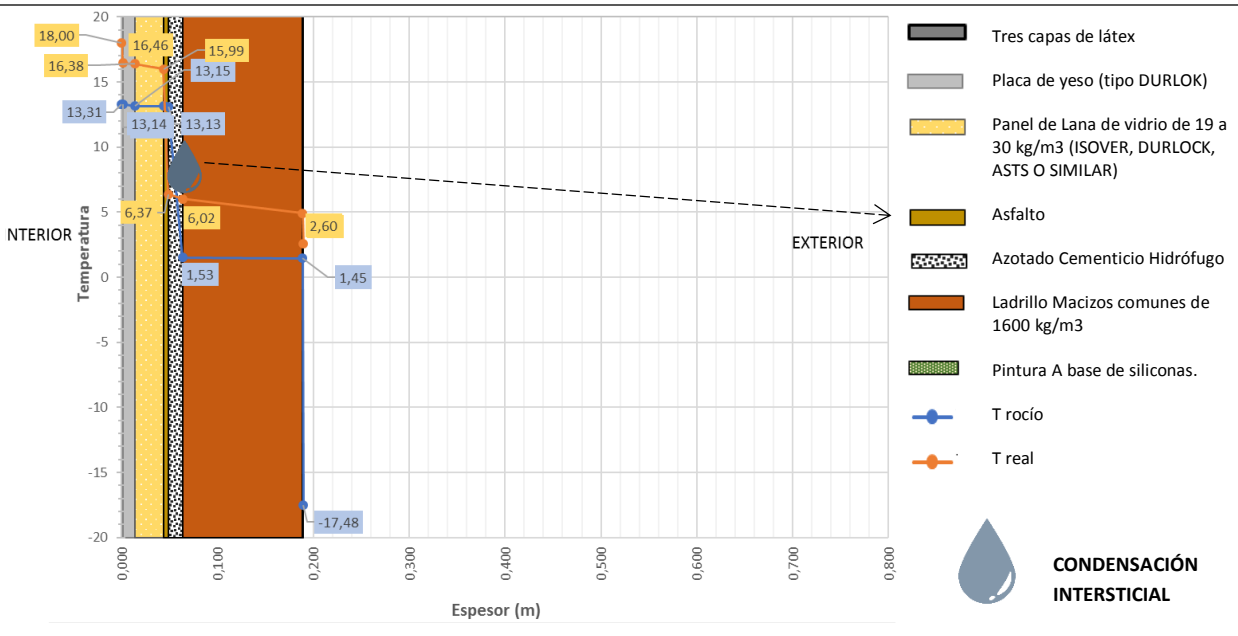
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,77 | 0,77 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



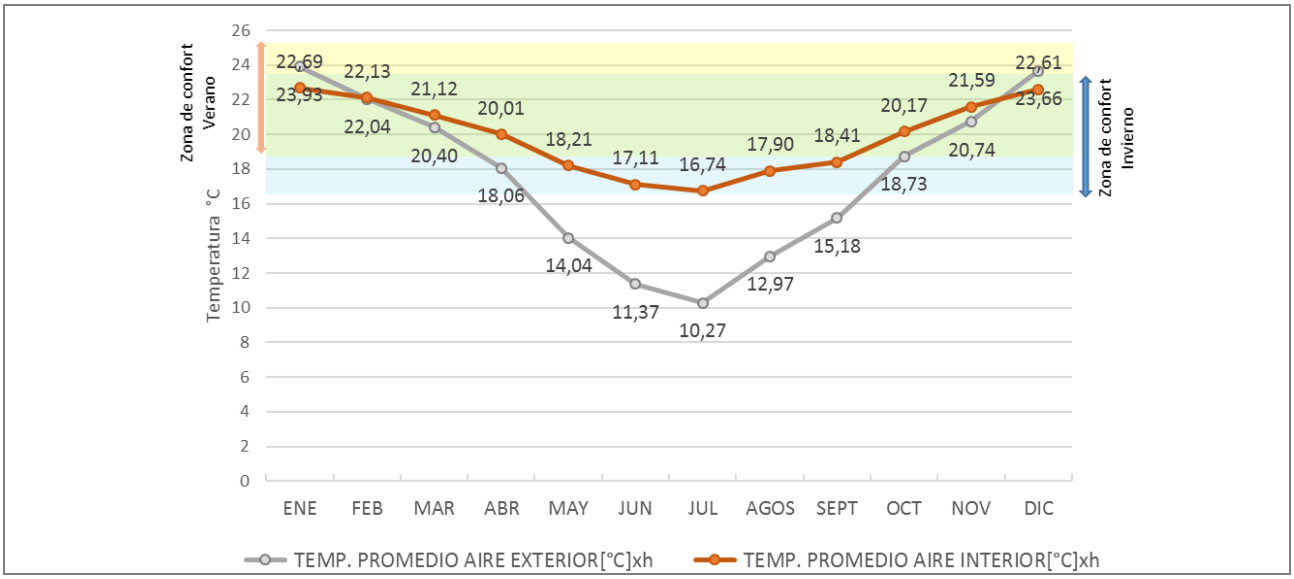

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 58,2 | 58,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,9** | **11,9** |
| | **Amortiguamiento:** | 0,012 | 0,012 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,4** | **6,3** |
| | **Amortiguamiento:** | 0,066 | 0,192 |

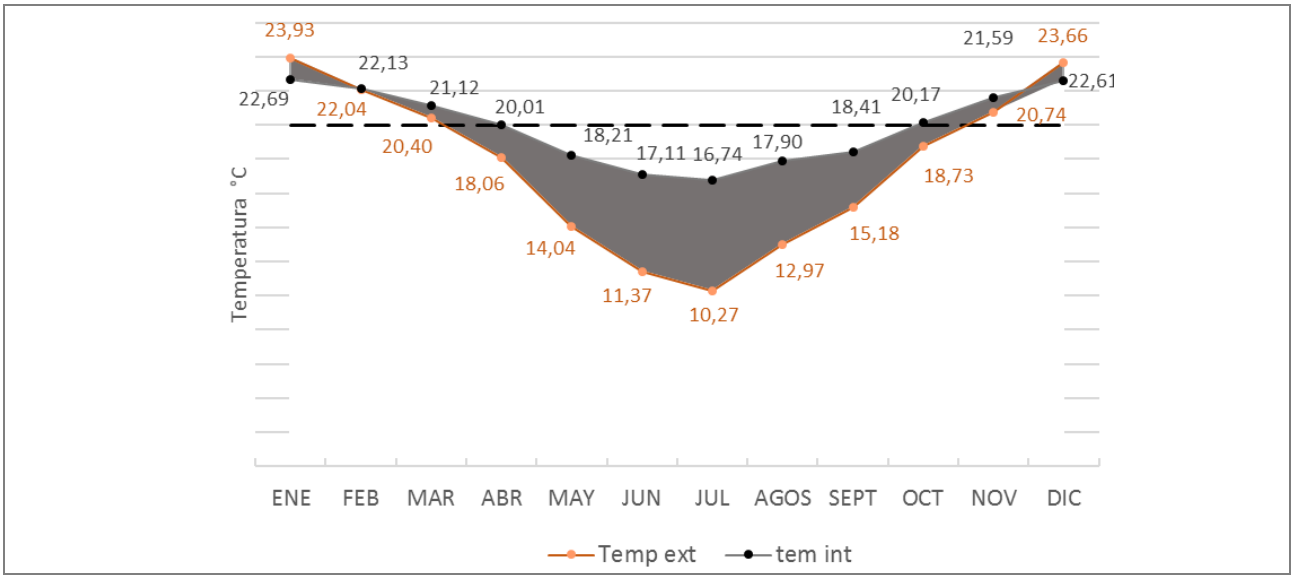
| LAD-007 | MU | LADRILLO COMÚN |
|---|---|---|

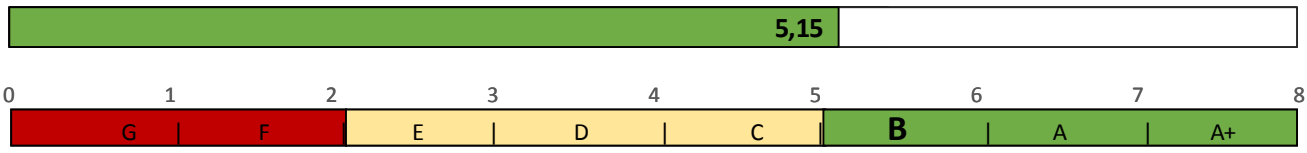
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,30** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 07:00 hs | **13,32** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



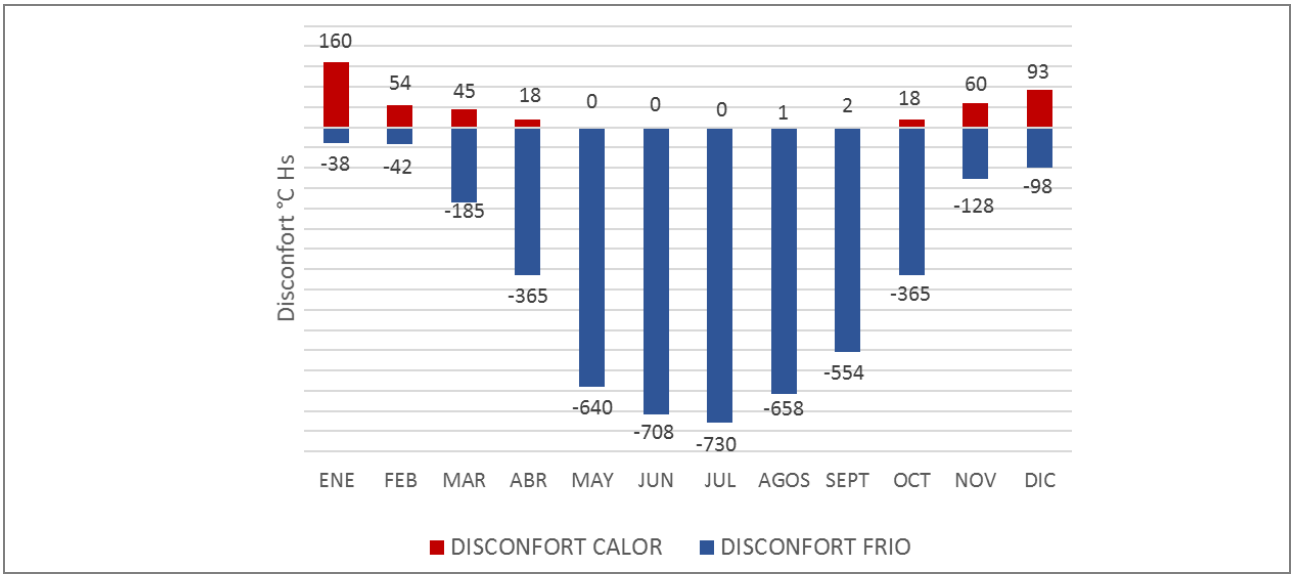




5,15 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| LAD-007 | MU | LADRILLO COMÚN |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

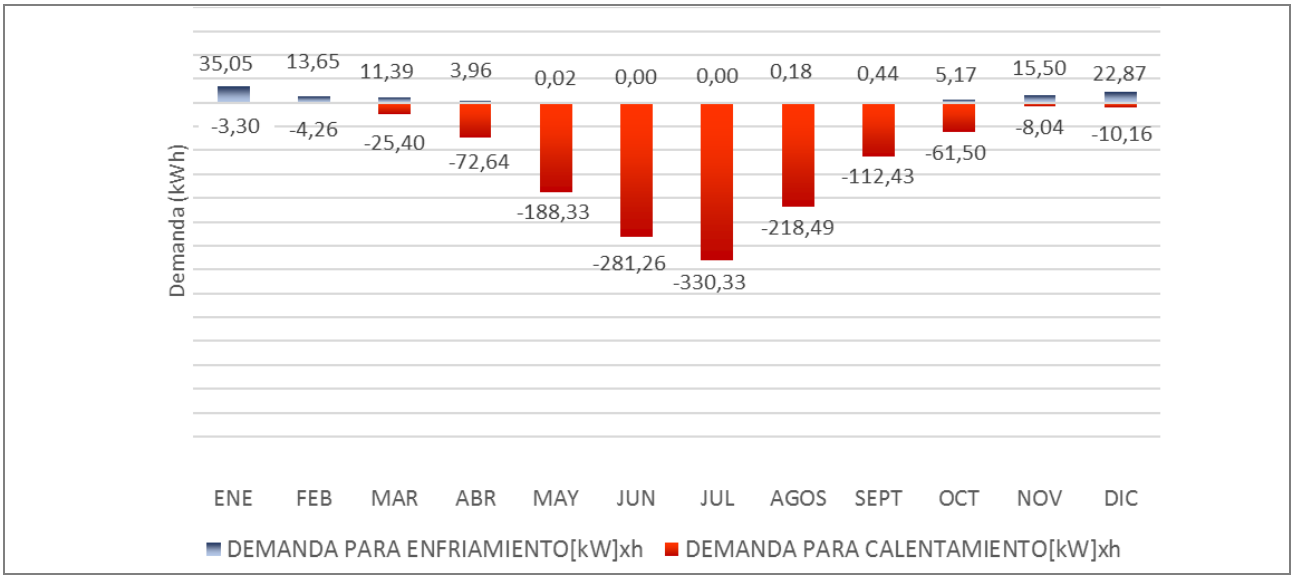
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **451** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.512** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.963** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

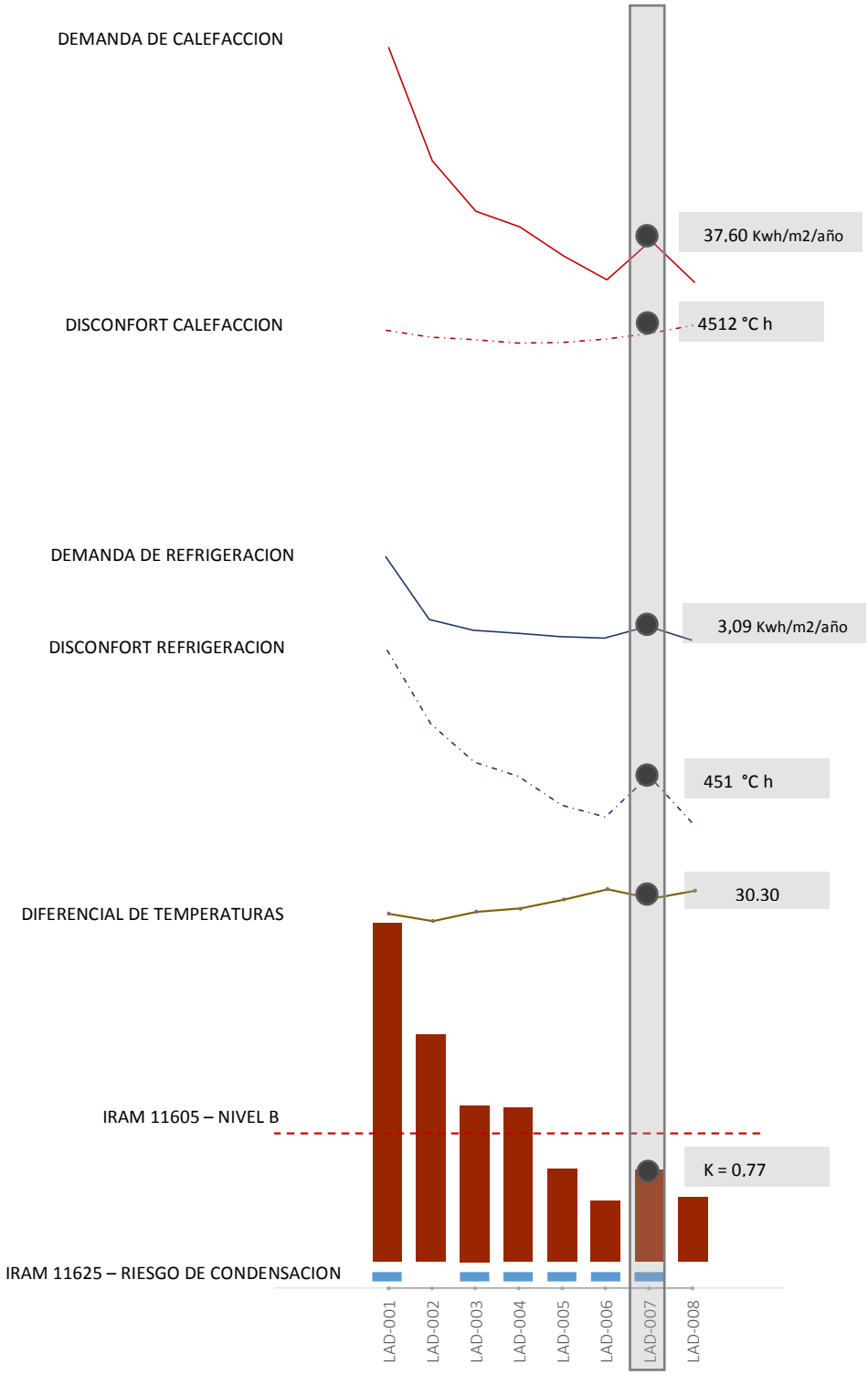



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **108,23** | kWh | 3,09 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.316,15** | kWh | 37,60 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.424,38** | kWh | **40,70** | kWh/m2/año |

| LAD-007 | MU | LADRILLO COMÚN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 161 | N° 158 | N° 164 | N° 168 | N° 068 | N° 169 |



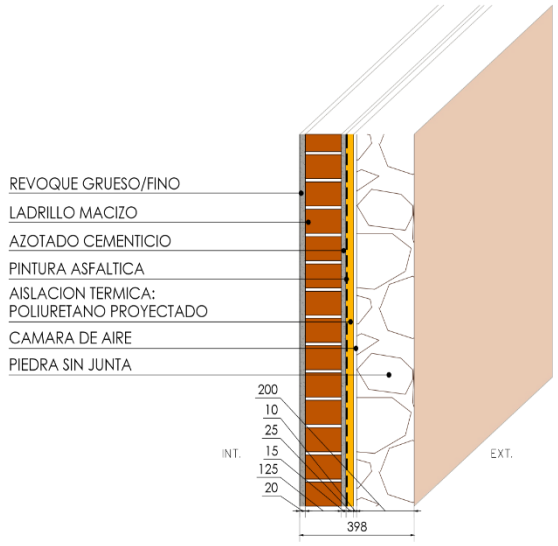

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,24 | 75% | 29,85 | 42,59 | 3,81 | 4173 | 431 |
| INDIVIDUAL | 0,77 | 100% | 30,30 | 37,6 | 3,09 | 4512 | 451 |
| INC. FAMILIA | 62,10% | 133,33% | 101,51% | 88,28% | 81,10% | 108,12% | 104,73% |
| INC. MUNDIAL | 64,74% | 357,05% | 98,33% | 91,43% | 51,49% | 101,13% | 88,23% |

| LAD-008 | MU | LADRILLO COMÚN |
|---|---|---|

MURO DOBLE -PIEDRA SIN JUNTA AL EXTERIOR- LADRILLO COMUN CON REVOQUE AL INTERIOR- AISLACION DE PUR.

## INDICE DE TRANSMITANCIA TERMICA "K"

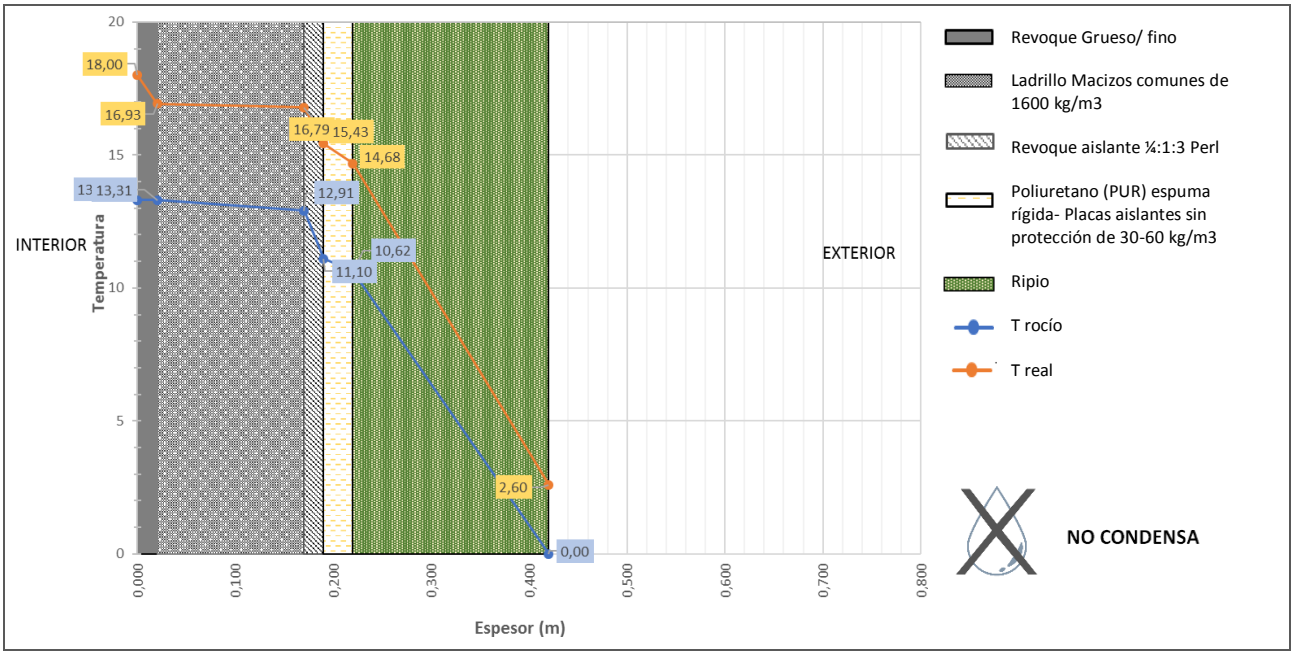
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,54 | 0,54 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



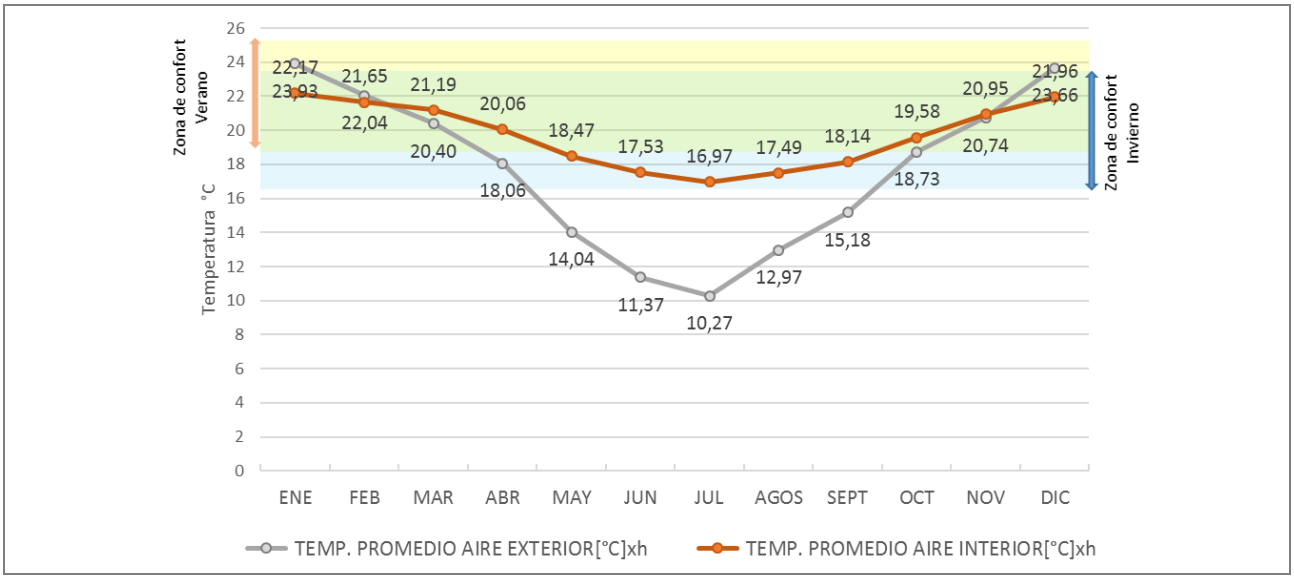

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 21,4 | 27,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **10,8** | **12,4** |
| | **Amortiguamiento:** | 0,018 | 0,010 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,3** | **11,6** |
| | **Amortiguamiento:** | 0,323 | 0,048 |

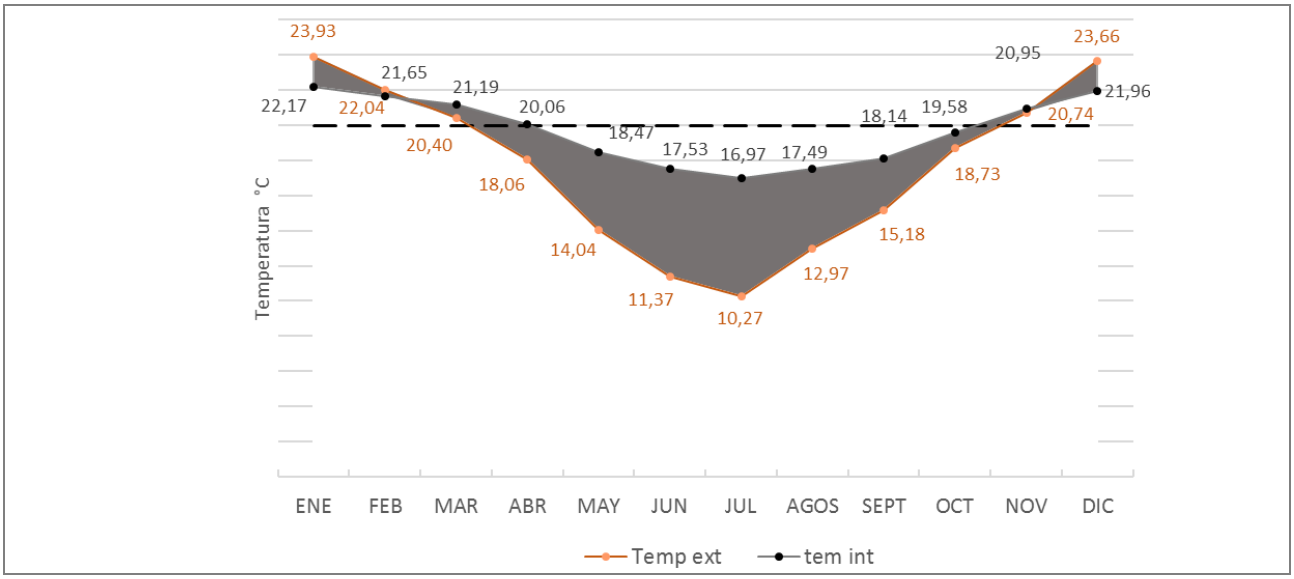
| LAD-008 | MU | LADRILLO COMÚN |
|---|---|---|

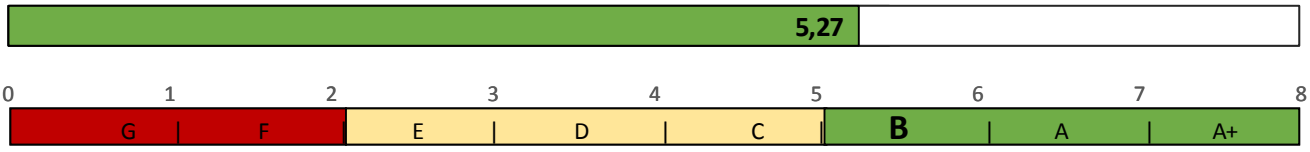
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **23,87** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **15,56** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



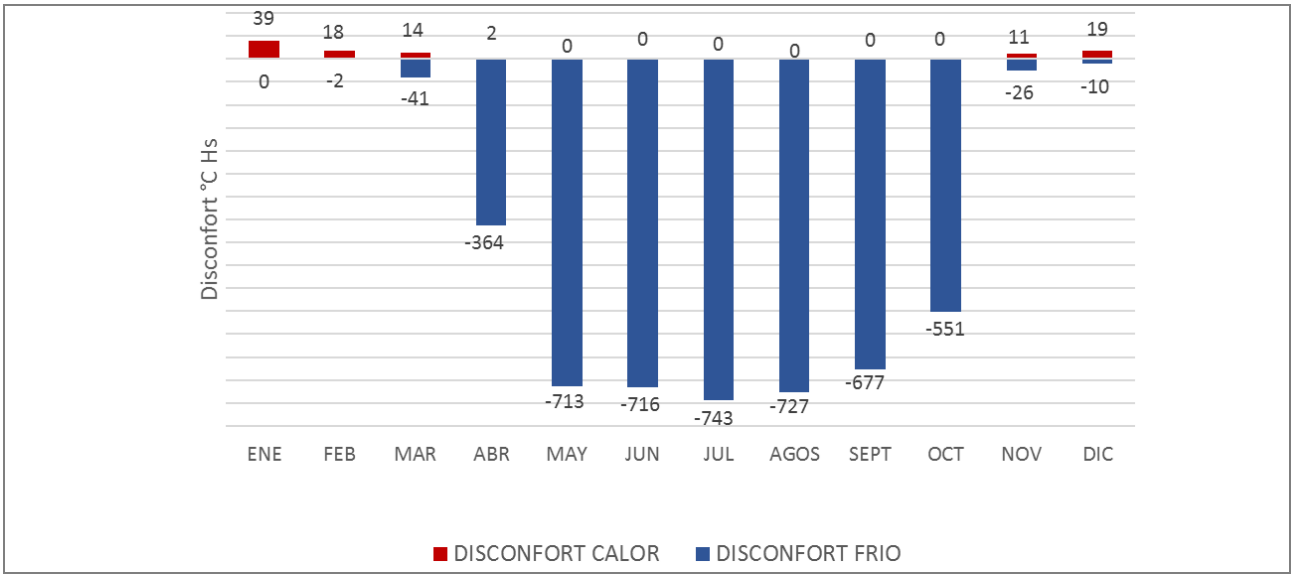




5,27 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| LAD-008 | MU | LADRILLO COMÚN |
|---|---|---|

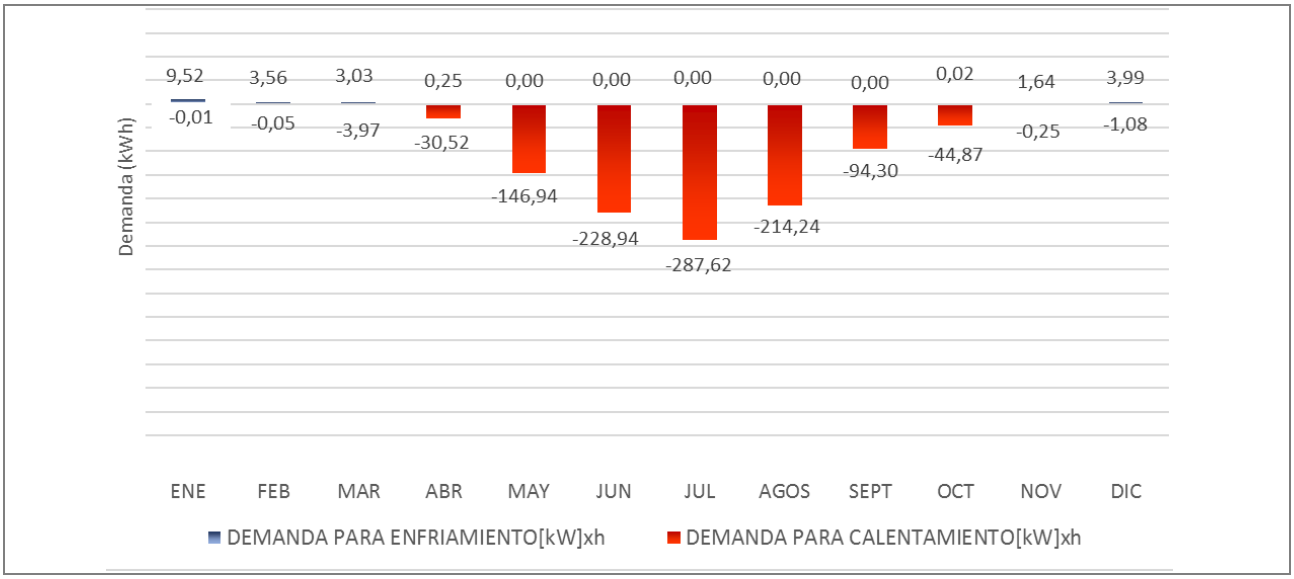
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **104** | °C Hs | 1% |
| HORAS DE DISCONFORT POR FRÍO | **4.569** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.673** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

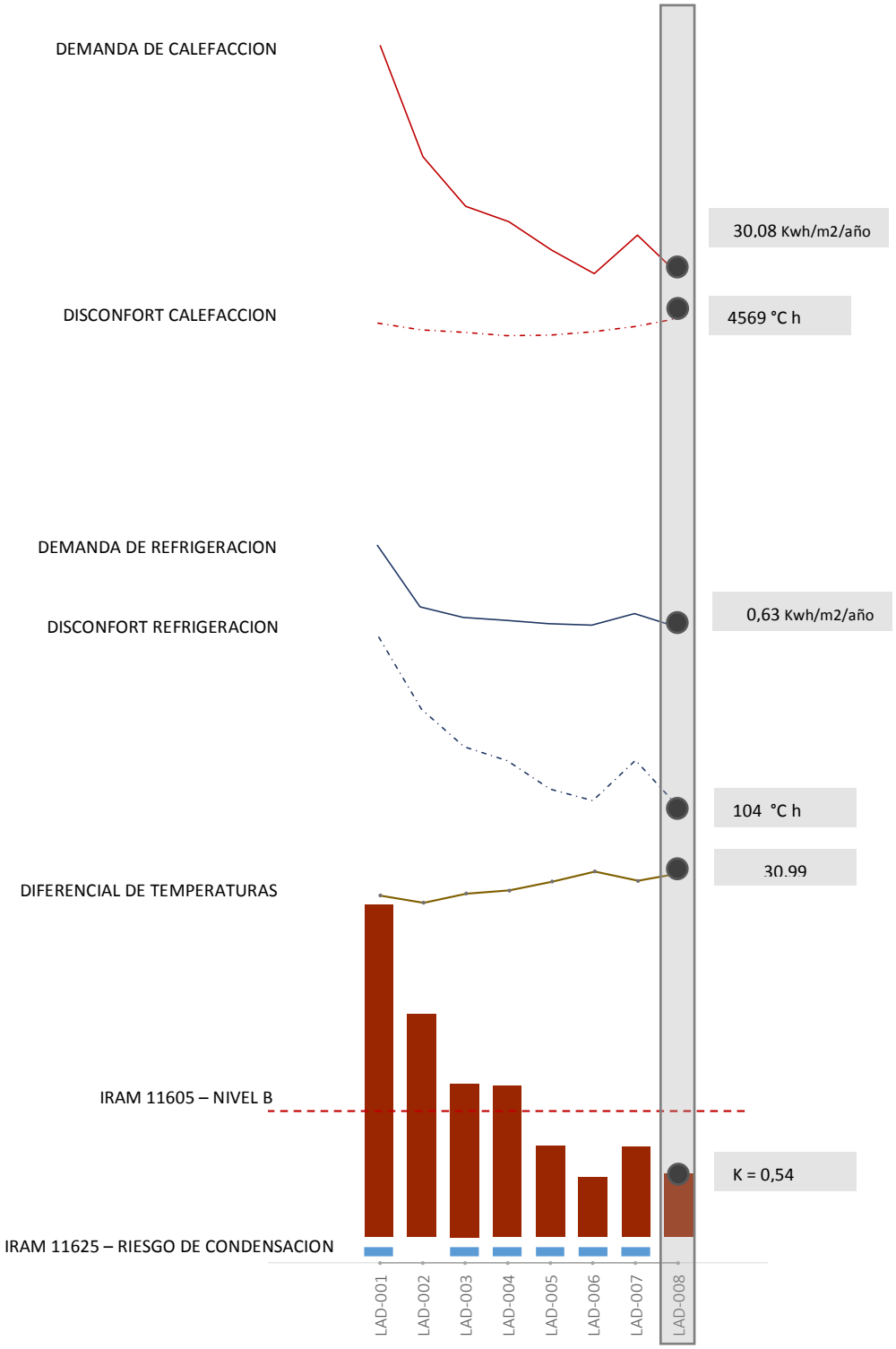



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **22,03** | kWh | 0,63 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.052,78** | kWh | 30,08 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.074,81** | kWh | **30,71** | kWh/m2/año |

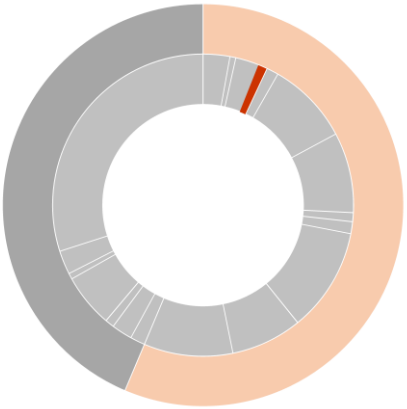
| LAD-008 | MU | LADRILLO COMÚN |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 131 | N° 111 | N° 065 | N° 001 | N° 122 | N° 001 |




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,24 | 75% | 29,85 | 42,59 | 3,81 | 4173 | 431 |
| INDIVIDUAL | 0,54 | 0% | 30,99 | 30,08 | 0,63 | 4569 | 104 |
| INC. FAMILIA | 43,55% | 0,00% | 103,82% | 70,63% | 16,54% | 109,49% | 24,15% |
| INC. MUNDIAL | 45,40% | 0,00% | 100,57% | 73,14% | 10,50% | 102,41% | 20,35% |



# LADRILLO CERAMICO

**CER 001**: MURO DOBLE LADRILLO VISTO EXTERIOR CON BLOQUE CERAMICO 12 CM Y REVOQUE INTERIOR.

**CER 002**: MURO LADRILLO CERAMICO 12 REVOCADO EN AMBAS CARAS.

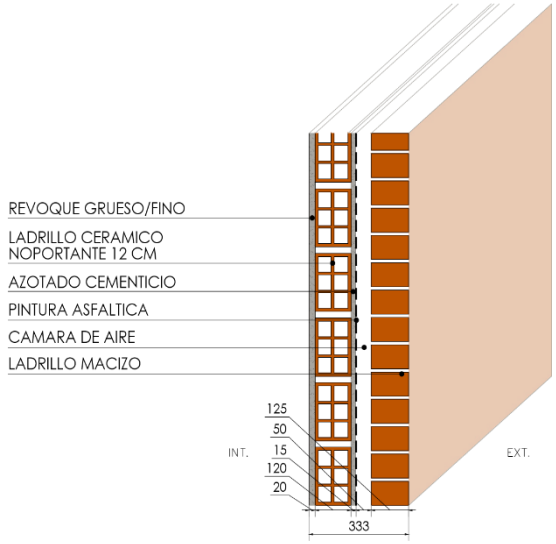
**CER 003:** MURO LADRILLO CERAMICO 18 REVOCADO EN AMBAS CARAS.

| CER-001 | MU | LADRILLO CERAMICO |
|---|---|---|

MURO DOBLE LADRILLO VISTO EXTERIOR CON BLOQUE CERAMICO 12 CM Y REVOQUE INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

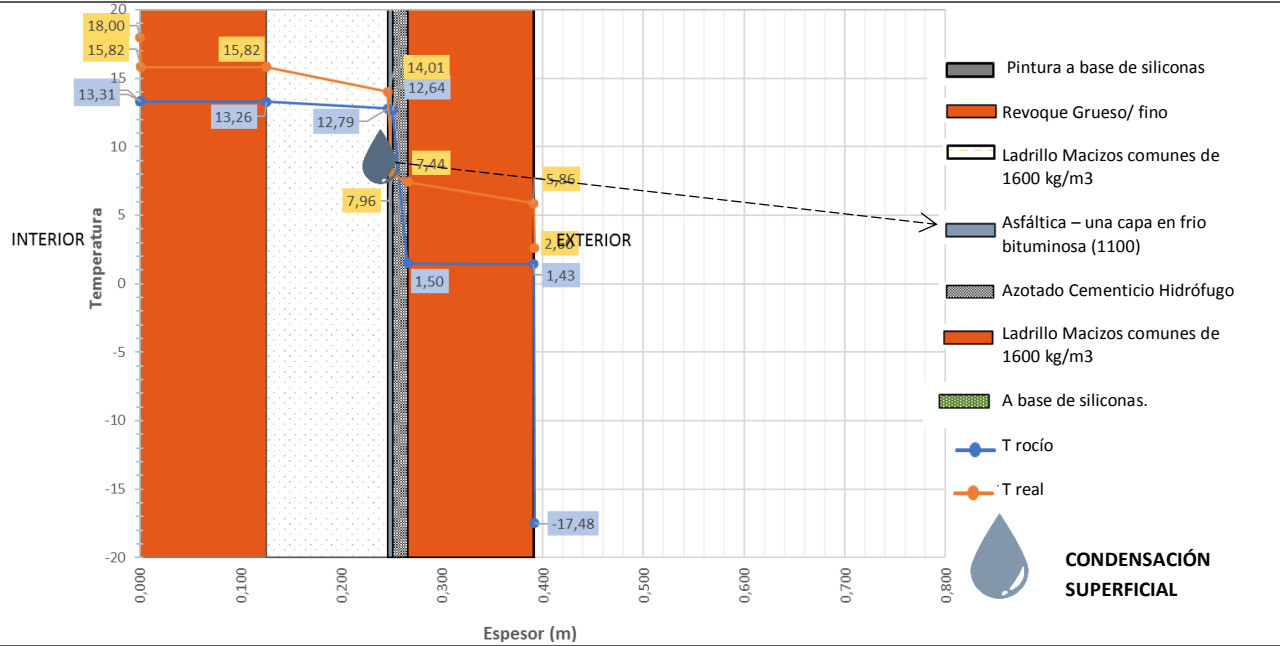
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,09 | 1,09 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



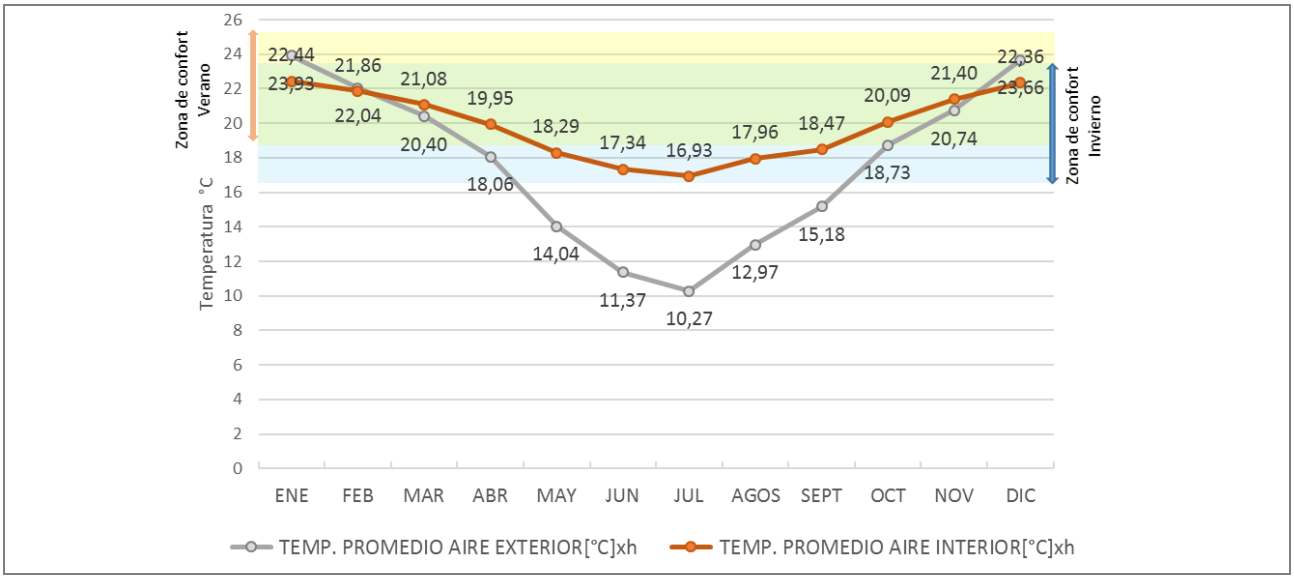

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 252,3 | 252,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **16,4** | **16,4** |
| | **Amortiguamiento:** | 0,002 | 0,002 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,6** | **13,7** |
| | **Amortiguamiento:** | 0,062 | 0,028 |

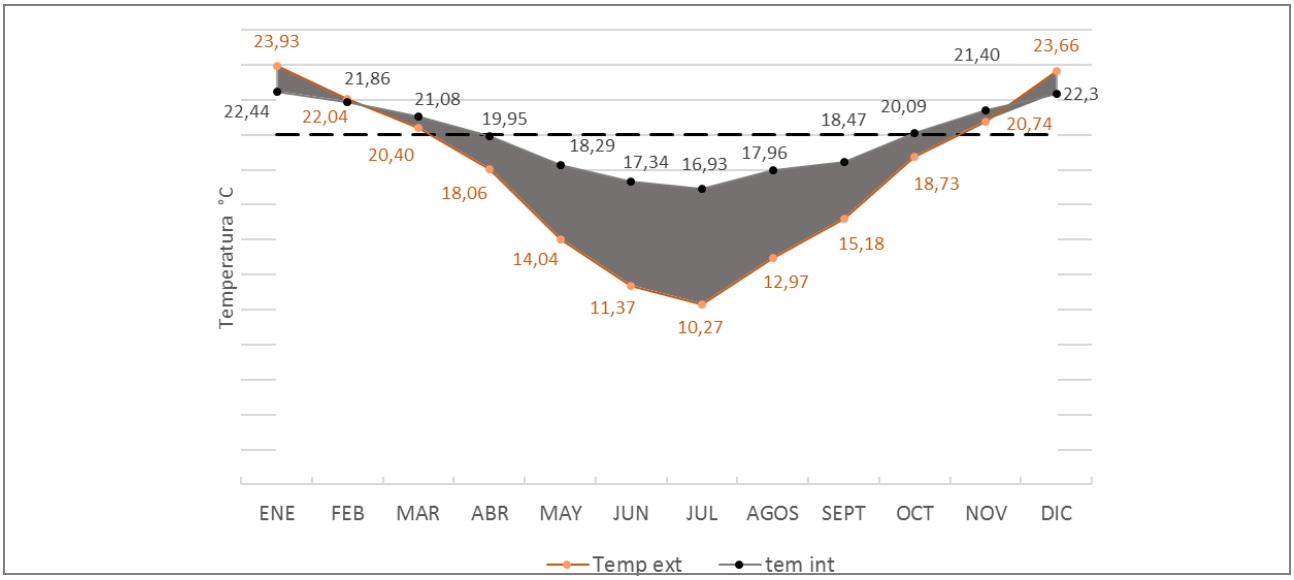
| CER-001 | MU | LADRILLO CERAMICO |
|---|---|---|

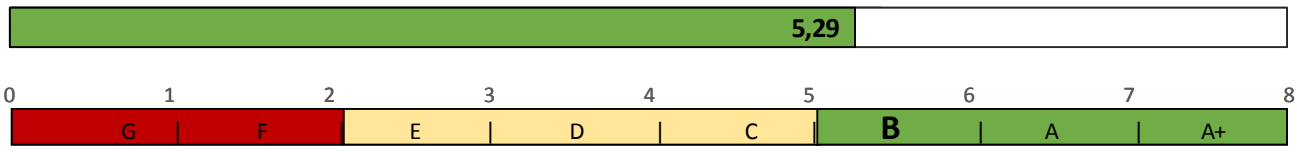
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,63** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,78** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



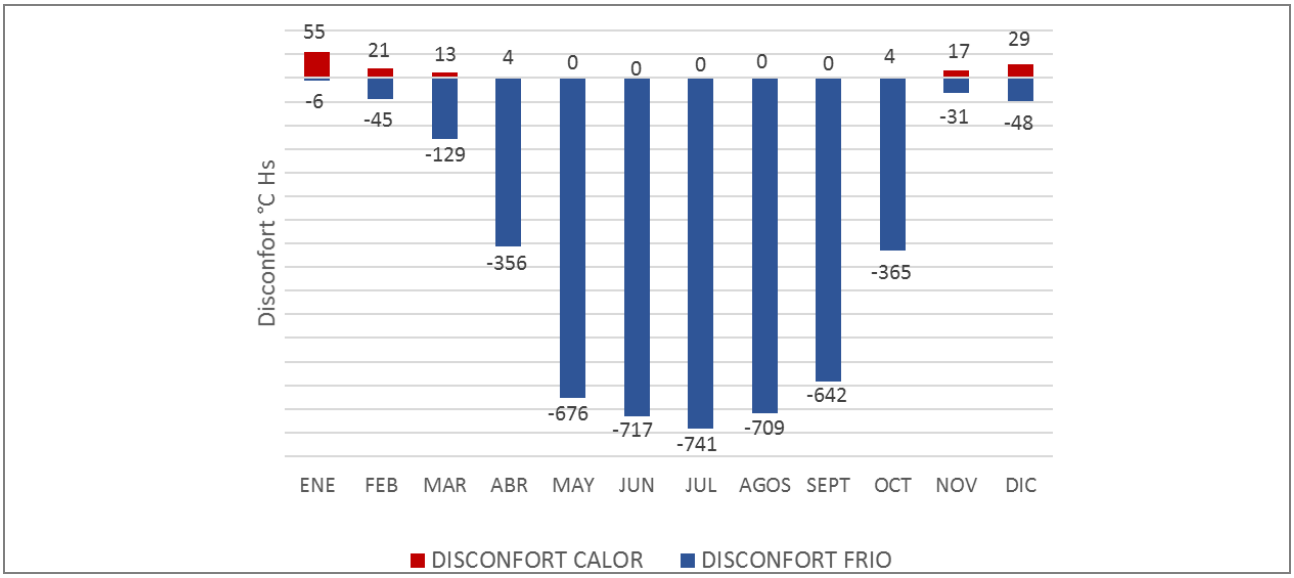




5,29 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| CER-001 | MU | LADRILLO CERAMICO |
|---|---|---|

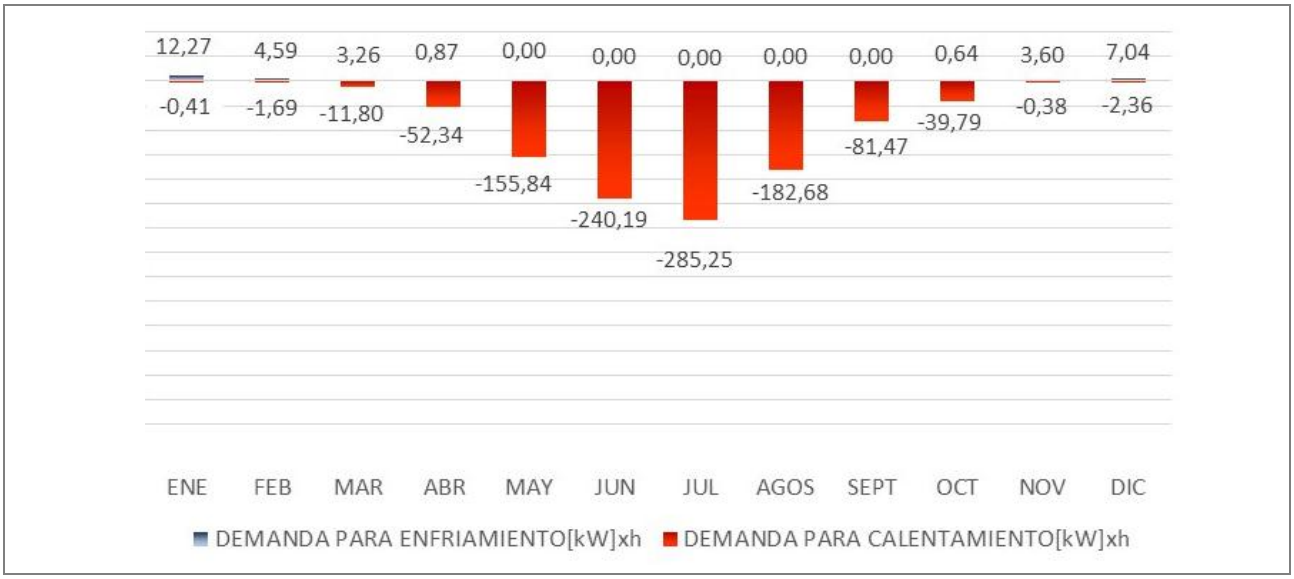
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **142** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.465** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.608** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

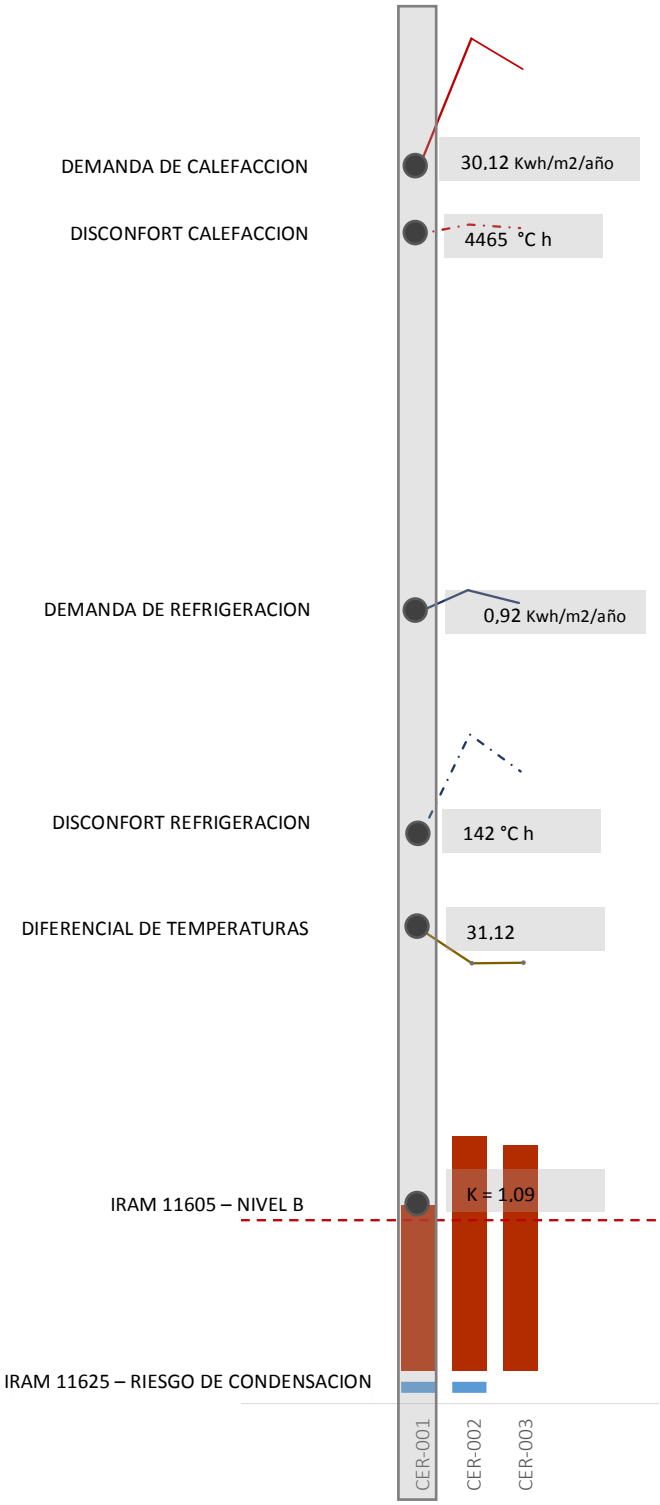



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **32,26** | kWh | 0,92 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.054,21** | kWh | 30,12 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.086,46** | kWh | **31,04** | kWh/m2/año |

| CER-001 | MU | LADRILLO CERAMICO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 173 | N° 099 | N° 069 | N° 017 | N° 021 | N° 016 |



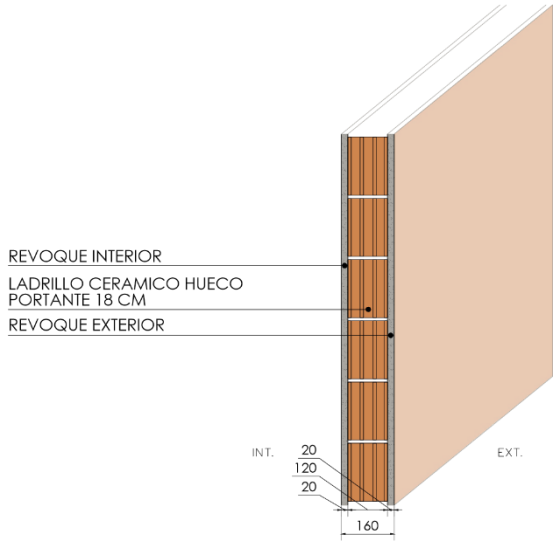

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,39 | 67% | 29,63 | 40,65 | 2,46 | 4494,33 | 475 |
| INDIVIDUAL | 1,09 | 100% | 31,12 | 30,12 | 0,92 | 4465 | 142 |
| INC. FAMILIA | 78,42% | 149,25% | 105,03% | 74,10% | 37,40% | 99,35% | 29,87% |
| INC. MUNDIAL | 91,64% | 357,05% | 100,99% | 73,24% | 15,33% | 100,08% | 27,78% |

| CER-002 | MU | LADRILLO CERAMICO |
|---|---|---|

MURO LADRILLO CERAMICO 12 REVOCADO EN AMBAS CARAS.

## INDICE DE TRANSMITANCIA TERMICA "K"

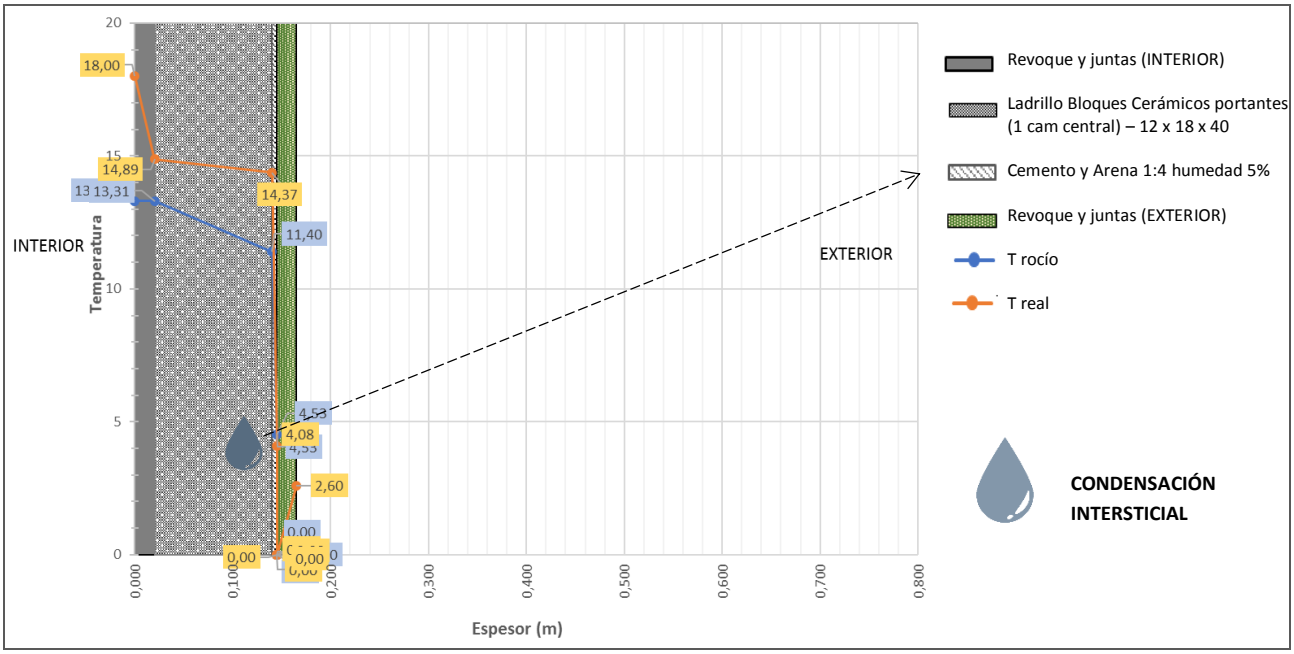
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,55 | 1,55 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



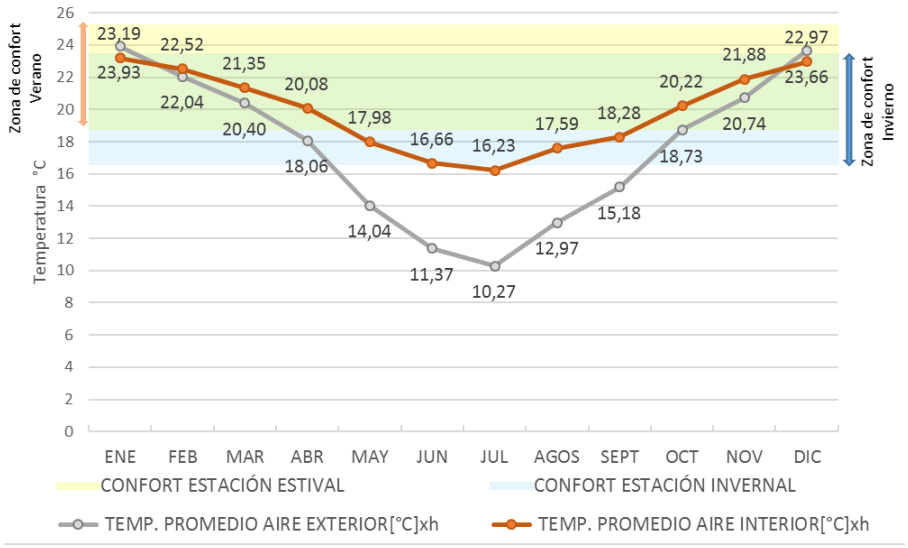

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 20,8 | Invierno 20,8 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,0** | **3,0** |
| | **Amortiguamiento:** | 0,332 | 0,332 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,5** | **2,8** |
| | **Amortiguamiento:** | 0,404 | 0,486 |

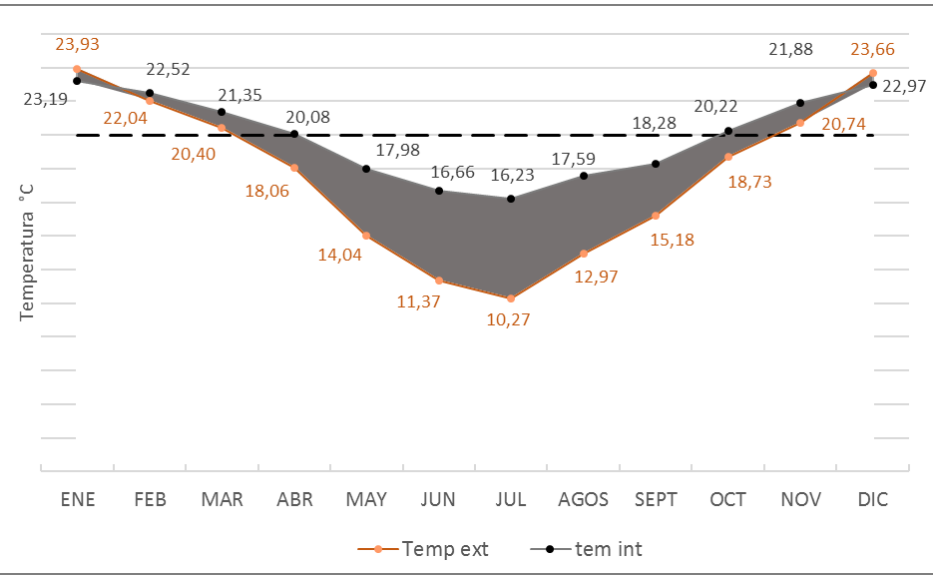
| CER-002 | MU | LADRILLO CERAMICO |
|---|---|---|

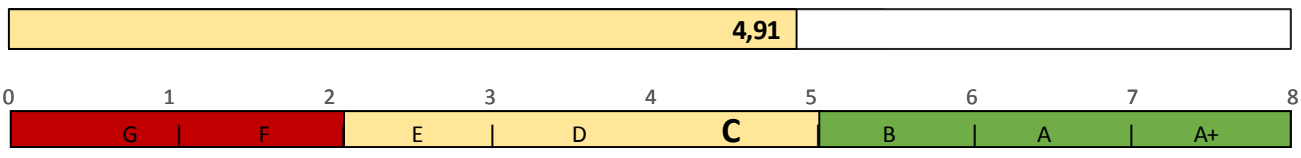
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 22:00 hs | **26,60** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 10:00 hs | **12,52** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



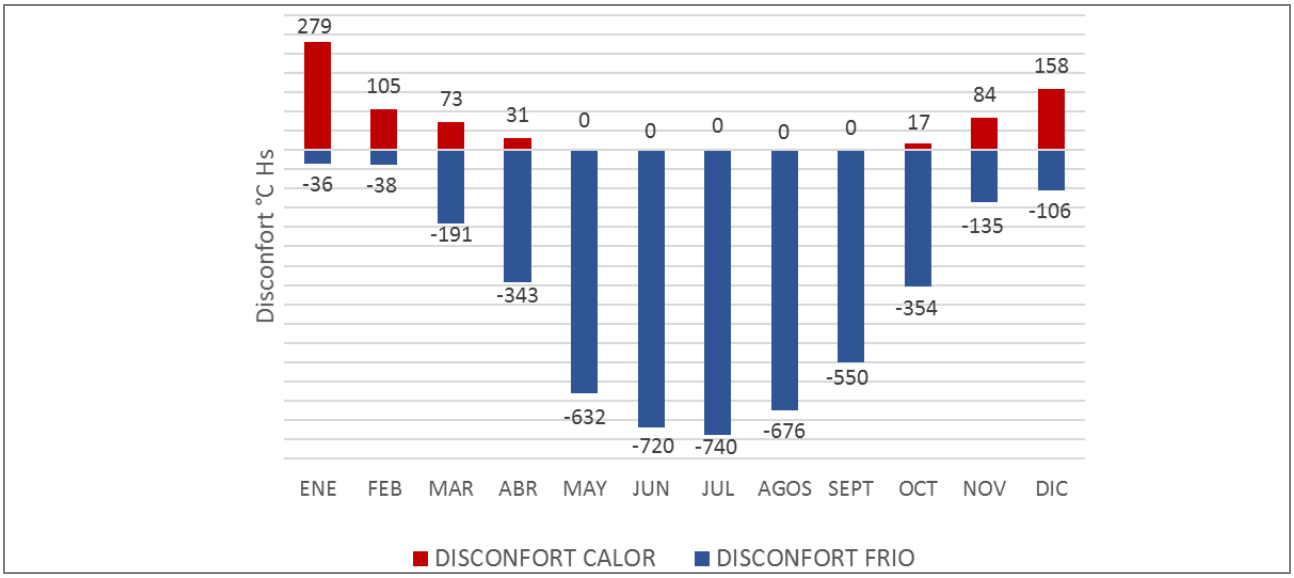




4,91 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| CER-002 | MU | LADRILLO CERAMICO |
|---|---|---|

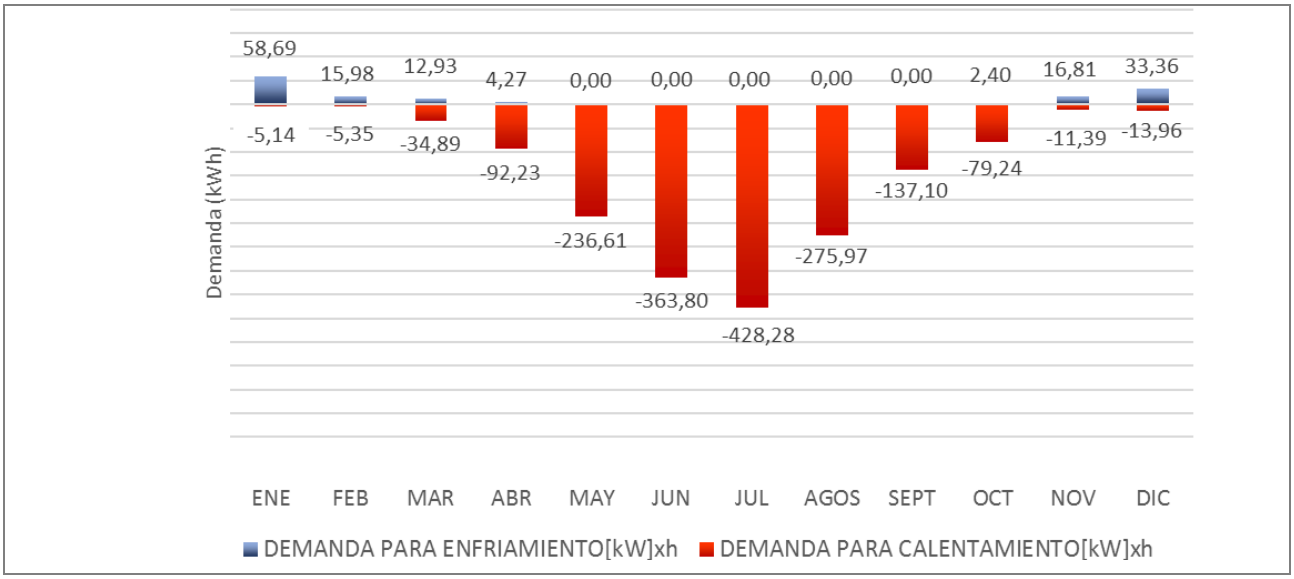
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **748** | °C Hs | 9% |
| HORAS DE DISCONFORT POR FRÍO | **4.519** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.267** | **°C Hs** | **61%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

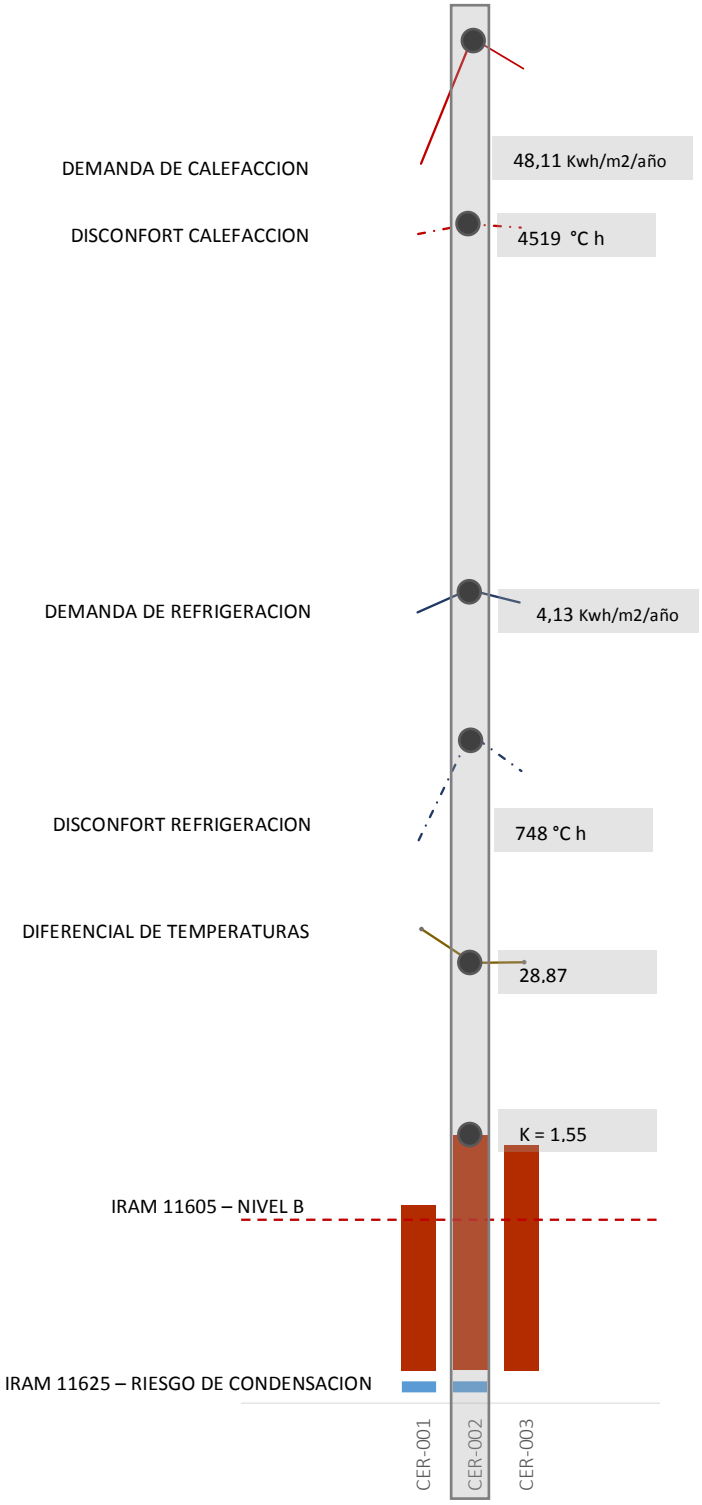



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **144,44** | kWh | 4,13 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.683,6** | kWh | 48,11 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.828,40** | kWh | **52,24** | kWh/m2/año |

| CER-002 | MU | LADRILLO CERAMICO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 181 | N° 185 | N° 179 | N° 178 | N° 077 | N° 182 |



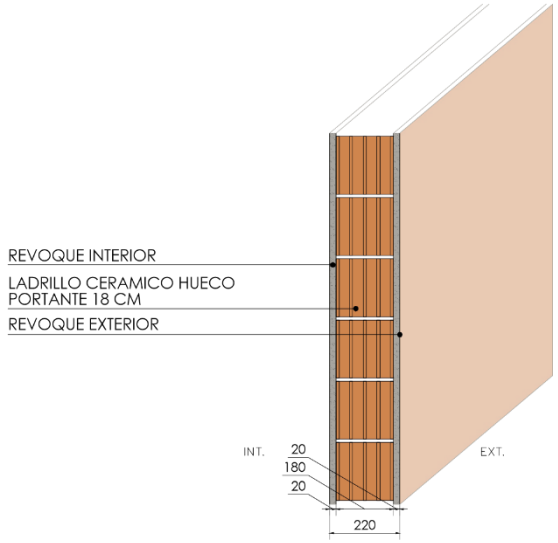

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,39 | 67% | 29,63 | 40,65 | 2,46 | 4494,33 | 475 |
| INDIVIDUAL | 1,55 | 100% | 28,87 | 48,11 | 4,13 | 4519 | 748 |
| INC. FAMILIA | 111,51% | 149,25% | 97,44% | 118,35% | 167,89% | 100,55% | 157,36% |
| INC. MUNDIAL | 130,32% | 357,05% | 93,69% | 116,98% | 68,81% | 101,29% | 146,34% |

| CER-003 | MU | LADRILLO CERAMICO |
|---|---|---|

MURO LADRILLO CERAMICO 18 REVOCADO EN AMBAS CARAS.

## INDICE DE TRANSMITANCIA TERMICA "K"

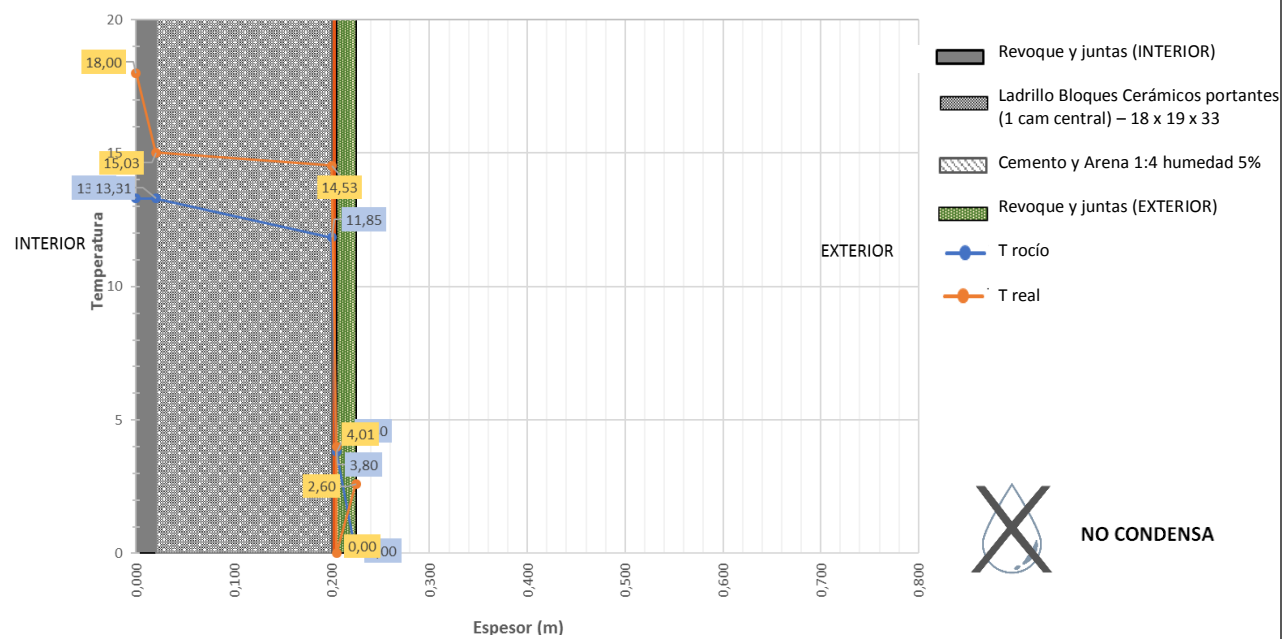
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,49 | 1,49 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



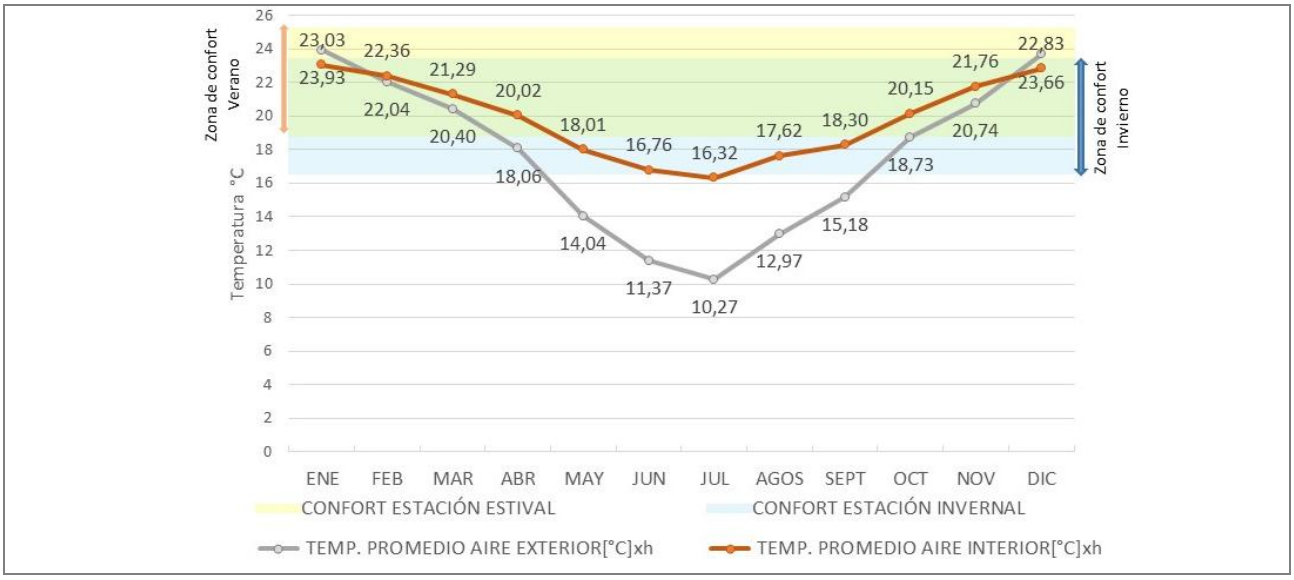

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 19,5 | Invierno 19,5 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,1** | **3,1** |
| | **Amortiguamiento:** | 0,320 | 0,320 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,5** | **2,8** |
| | **Amortiguamiento:** | 0,396 | 0,477 |

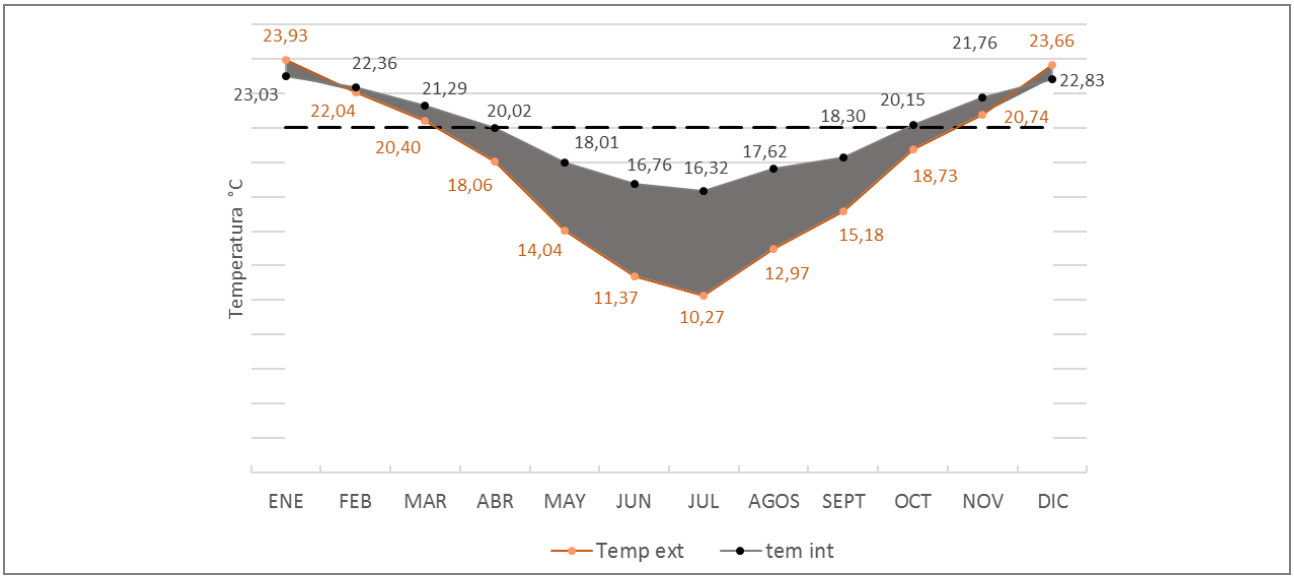
| CER-003 | MU | LADRILLO CERAMICO |
|---|---|---|

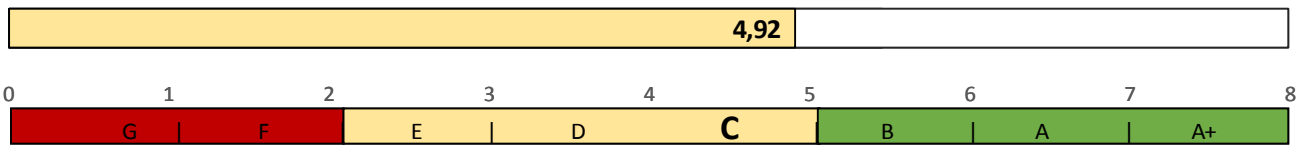
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,84** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,22** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



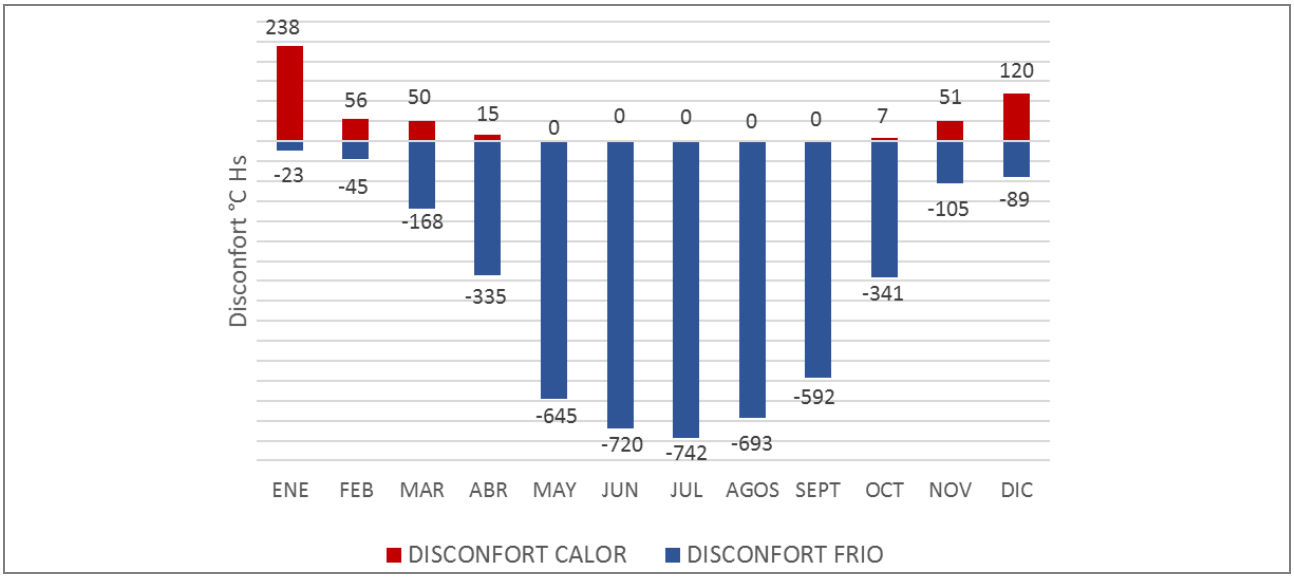




4,92 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| CER-003 | MU | LADRILLO CERAMICO |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

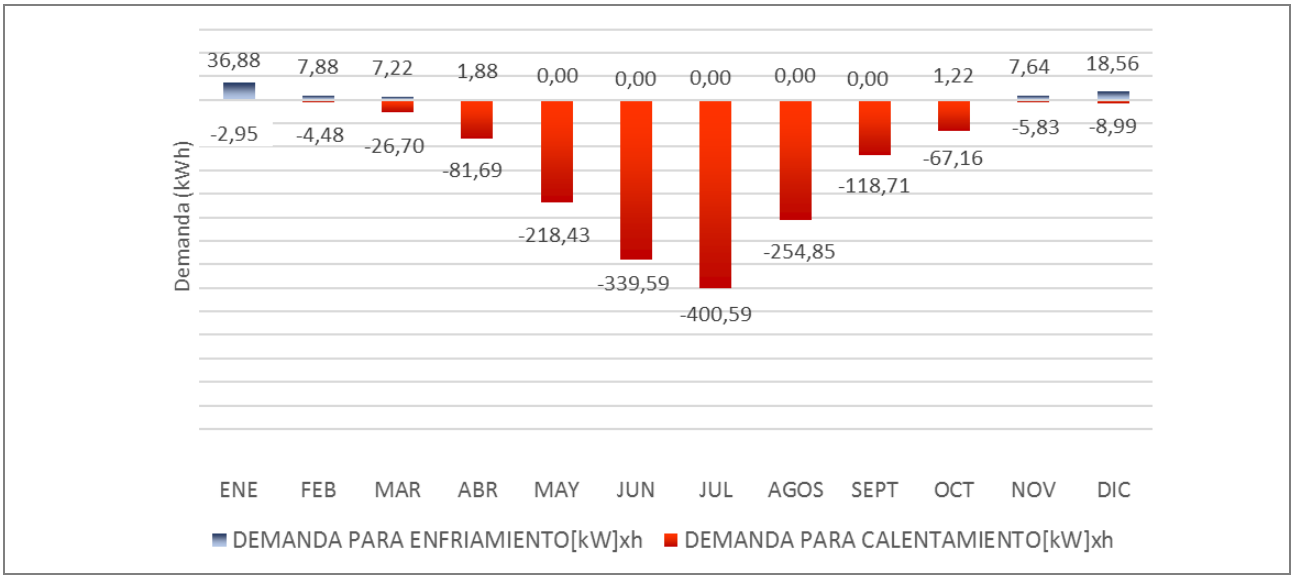
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **536** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.499** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.035** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

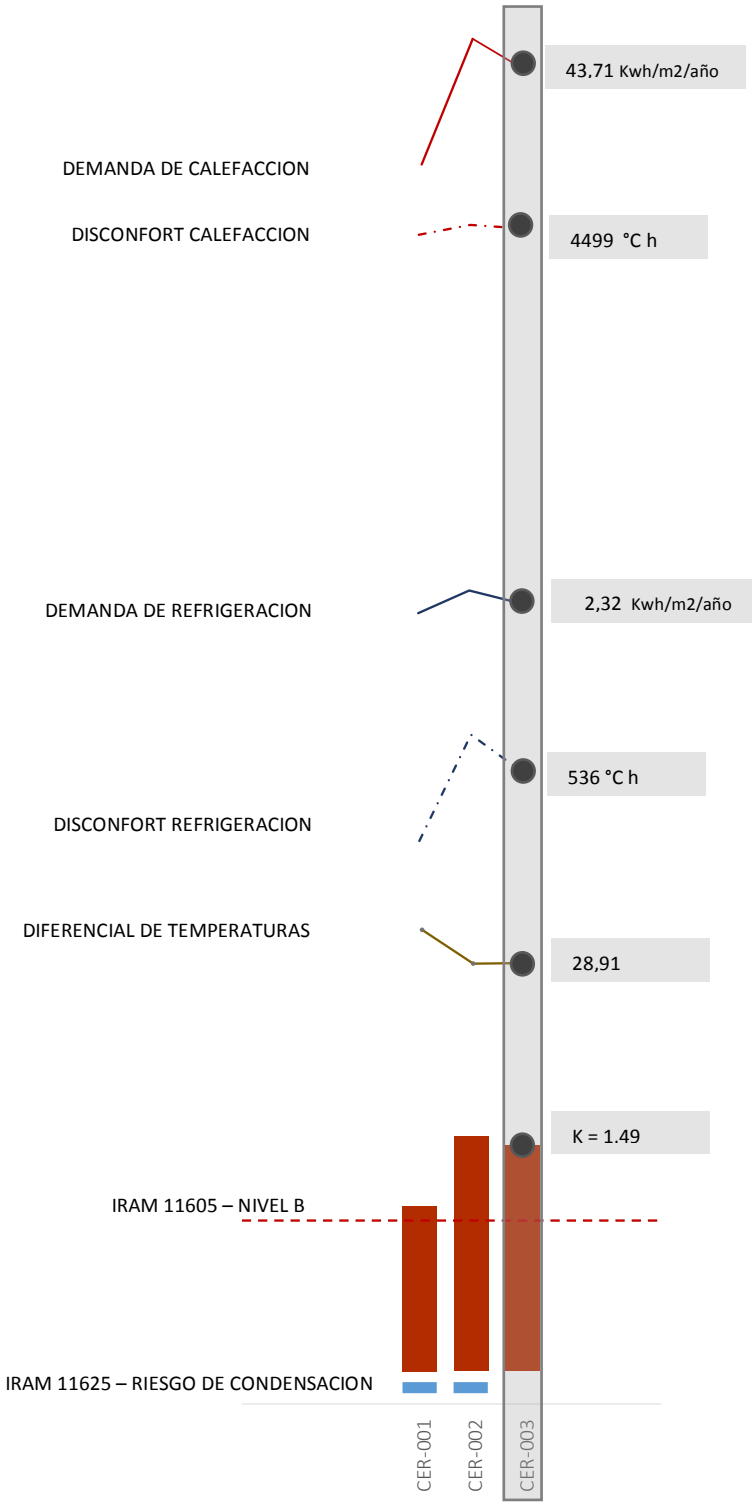



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **81,28** | kWh | 2,32 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.529,97** | kWh | 43,71 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.611,25** | kWh | **46,04** | kWh/m2/año |

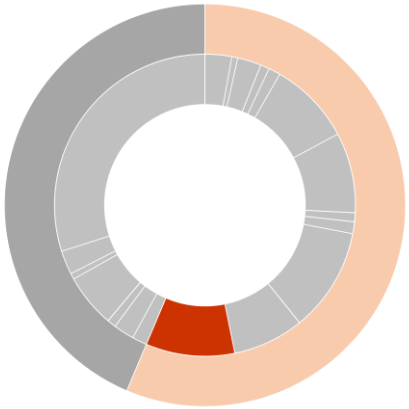
| CER-003 | MU | LADRILLO CERAMICO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 180 | N° 184 | N° 177 | N° 157 | N° 056 | N° 175 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,39 | 67% | 29,63 | 40,65 | 2,46 | 4494,33 | 475 |
| INDIVIDUAL | 1,49 | 0% | 28,91 | 43,71 | 2,32 | 4499 | 536 |
| INC. FAMILIA | 107,19% | 0,00% | 97,57% | 107,53% | 94,31% | 100,10% | 112,76% |
| INC. MUNDIAL | 125,27% | 0,00% | 93,82% | 106,28% | 38,66% | 100,84% | 104,86% |



# LOSA DE VIGUETAS

**VIG 001**: LOSA DE VIGUETAS PRETENSADAS Y BLOQUE DE CEMENTO ARENA H 10 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLA.

**VIG 002**: CUBIERTA LOSA VIGUETAS PRETENSADAS Y BLOQUE CEMENTO ARENA H 12 CM CUBIERTA TRADICIONAL.

**VIG 003:** LOSA DE VIGUETAS PRETENSADAS Y BLOQUE DE CEMENTO ARENA H 15 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLA.

**VIG 004:** LOSA DE VIGUETAS PRETENSADAS Y BLOQUE DE CEMENTO ARENA H 20 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLA.

**VIG 005:** LOSA DE VIGUETAS PRETENSADAS Y BLOQUES CERAMICOS H 12 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA. TERMINACION DE BOVEDILLAS.

**VIG 006:** LOSA DE VIGUETAS PRETENSADAS Y BLOQUES CERAMICOS H 16 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA. TERMINACION DE BOVEDILLAS.

**VIG 007:** LOSA DE VIGUETAS PRETENSADAS Y BLOQUES CERAMICOS H 20 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA. TERMINACION DE BOVEDILLAS.

**VIG 008**: LOSA CON ENCOFRADO PERDIDO HORMILOSA (PREMOLDEAR SRL)

**VIG 009**: CUBIERTA SOBRE SISTEMA HORMILOSA.

**VIG 010:** LOSA DE VIGUETAS PRETENSADAS Y LADRILLOS EPS H 10 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLAS.

**VIG 011** LOSA DE VIGUETAS PRETENSADAS Y LADRILLOS EPS H 12 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLAS

**VIG 012:** LOSA DE VIGUETAS PRETENSADAS Y LADRILLOS EPS H 16 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLAS..

**VIG 013:** LOSA DE VIGUETAS PRETENSADAS Y LADRILLOS EPS H 20 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLAS.

**VIG 014:** LOSA DE VIGUETA Y PACAS PREFABRICADAS CON CUBIERTA TRADICIONAL

**VIG 015**: LOSA DE VIGUETAS Y PLACAS PARA TECHO PREFABRICADAS, CON CUBIERTA TRADICIONAL POR VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

**VIG 016:** LOSA DE VIGUETAS Y BLOQUES CEMENTO ARENA H 10 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

**VIG 017:** LOSA DE VIGUETAS Y BLOQUES CEMENTO ARENA H 12 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

**VIG 018:** LOSA DE VIGUETAS Y BLOQUES CEMENTO ARENA H 15 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

**VIG 019:** LOSA DE VIGUETAS Y BLOQUES CEMENTO ARENA H 20 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

**VIG 020:** LOSA DE VIGUETAS Y BLOQUES CERAMICOS H 12 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

**VIG 021**: LOSA DE VIGUETAS Y BLOQUES CERAMICOS H 16 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

**VIG 022**: LOSA DE VIGUETAS Y BLOQUES CERAMICOS H 20 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

**VIG 023:** LOSA VIGUETAS Y LADRILLOS EPS h 10 cm ALIV. CUBIERTA CON PERLAS EPS TERMINACION MEMBRANA DE ALUMINIO.

**VIG 024:** LOSA VIGUETAS Y LADRILLOS EPS h 12 cm ALIV. CUBIERTA CON PERLAS EPS TERMINACION MEMBRANA DE ALUMINIO.

**VIG 025:** LOSA DE VIGUETAS Y LADRILLOS EPS H 16 CM CON CUBIERTA VIA HUMEDA ALIVIANADA DE PERLAS EPS Y TERMINACION DE MEMBRANA CON ALUMINIO.

**VIG 026:** LOSA DE VIGUETAS Y LADRILLOS EPS H 20 CM CON CUBIERTA VIA HUMEDA ALIVIANADA DE PERLAS EPS Y TERMINACION DE MEMBRANA CON ALUMINIO.

**VIG 027:** ENTREPISO DE LOSA DE VIGUETAS Y BLOQUES CEMENTO ARENA H 12 CM CON CARGA DE PERLAS DE EPS Y TERMINACION CON CERAMICOS.

**VIG 028**: ENTREPISO DE LOSA DE VIGUETAS Y BLOQUES CERAMICOS H 12 CM, CON CARGA DE PERLAS DE EPS Y TERMINACION CON CERAMICOS.

**VIG 029:** ENTREPISO DE LOSA DE VIGUETAS Y BLOQUES CERAMICOS H 12 CM, CON CARGA DE PERLAS DE EPS Y TERMINACION CON CERAMICOS.

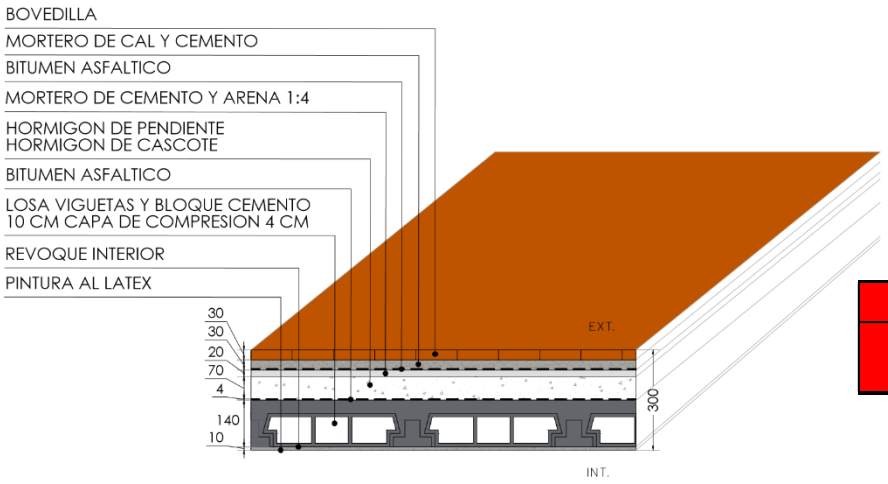
**VIG 030:** ENTREPISO DE LOSA DE VIGAS Y PLACAS PREFABRICADAS CON CARGA DE PERLAS DE EPS Y TERMINACION CON CERAMICOS.

| VIG-001 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS PRETENSADAS Y BLOQUE DE CEMENTO ARENA H 10 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLA.

## INDICE DE TRANSMITANCIA TERMICA "K"

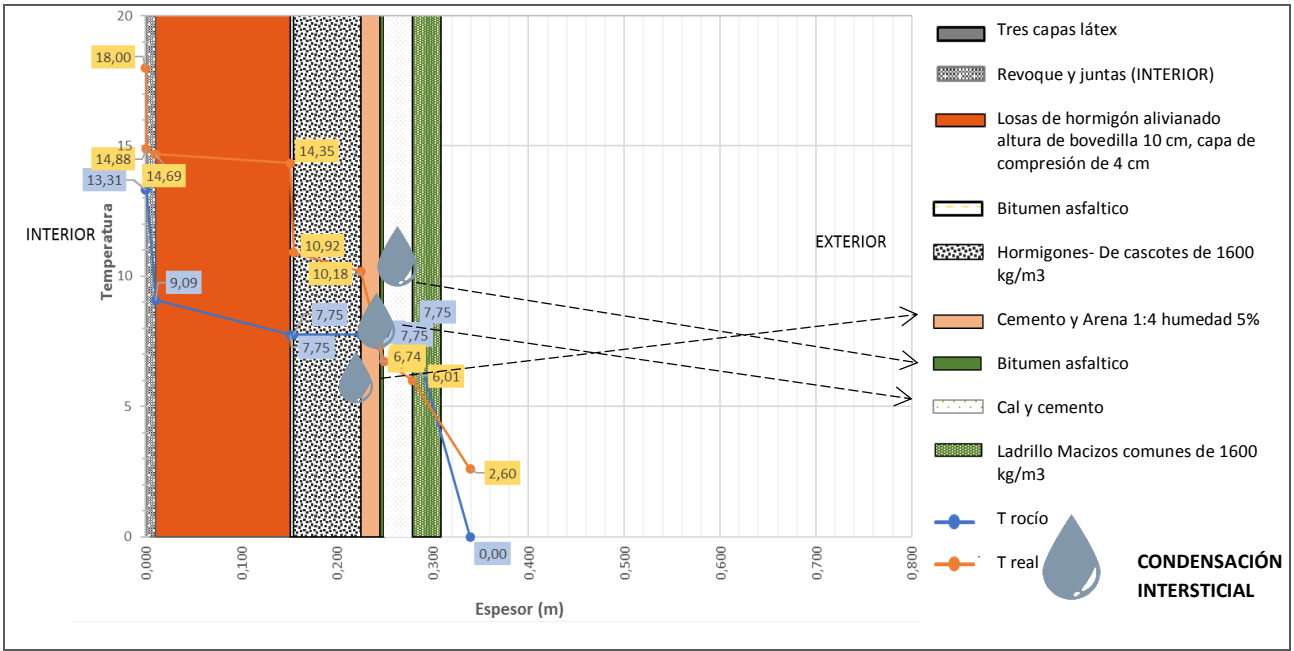
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,77 | 2,03 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



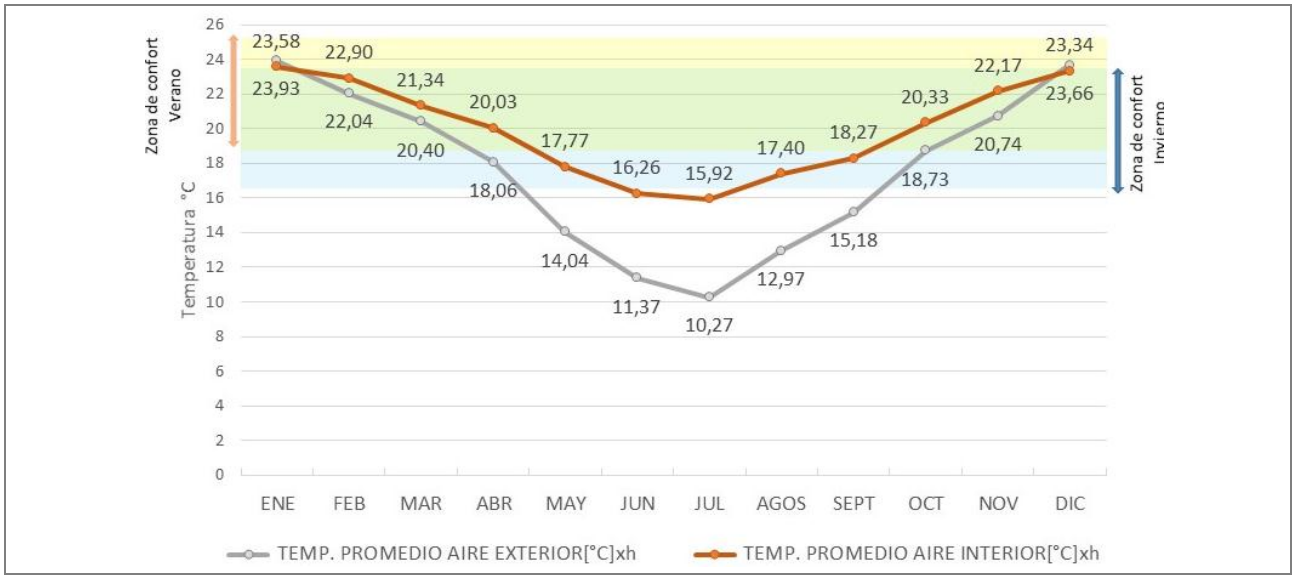

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 144,2 | 132,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,9** | **5,6** |
| | **Amortiguamiento:** | 0,114 | 0,126 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,8** | **4,1** |
| | **Amortiguamiento:** | 0,221 | 0,344 |

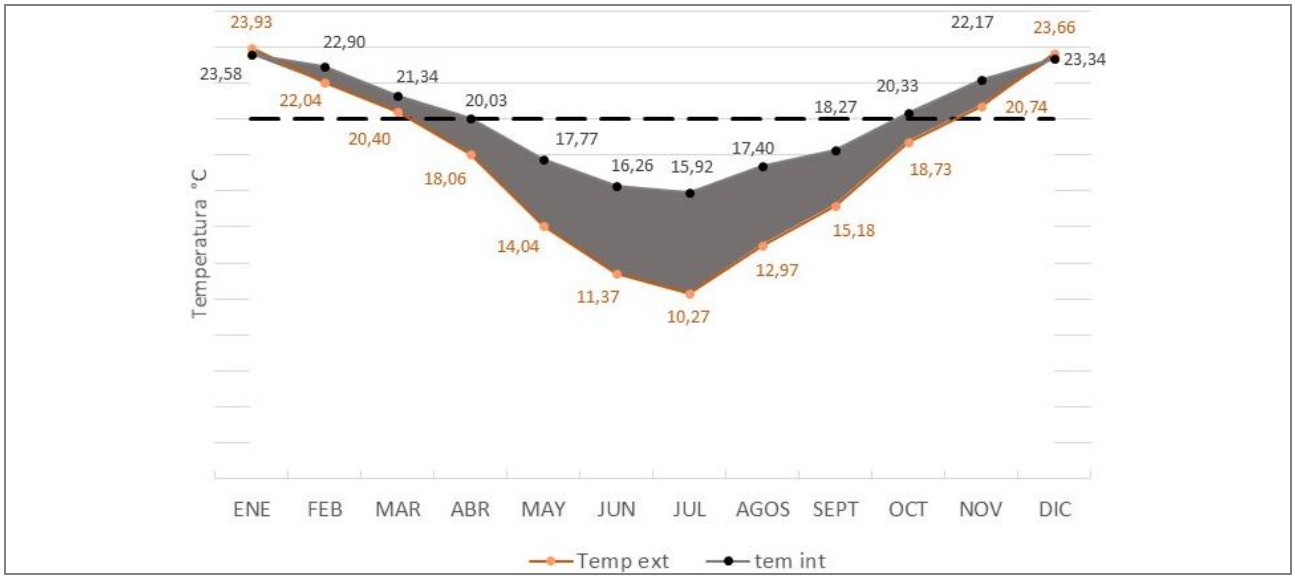
| VIG-001 | CU | LOSAS VIGUETAS |
|---|---|---|

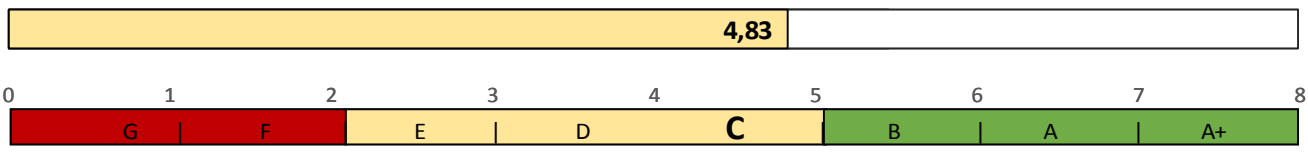
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 23:00 hs | **28,17** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 23/07 13:00 hs | **11,73** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



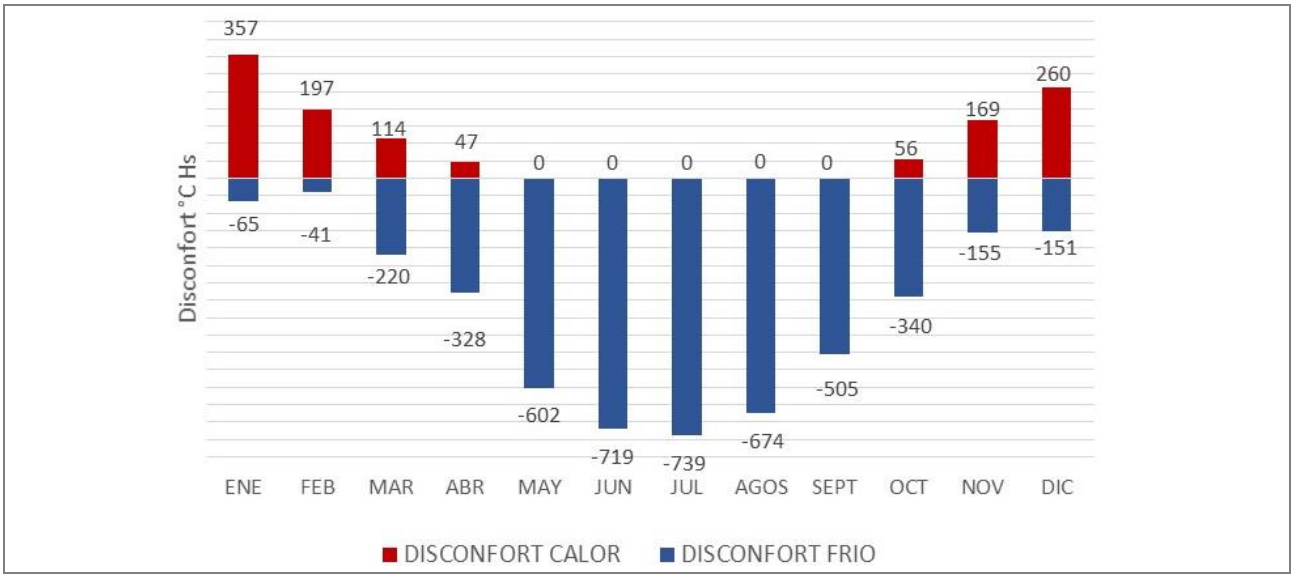




4,83 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,60

| VIG-001 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

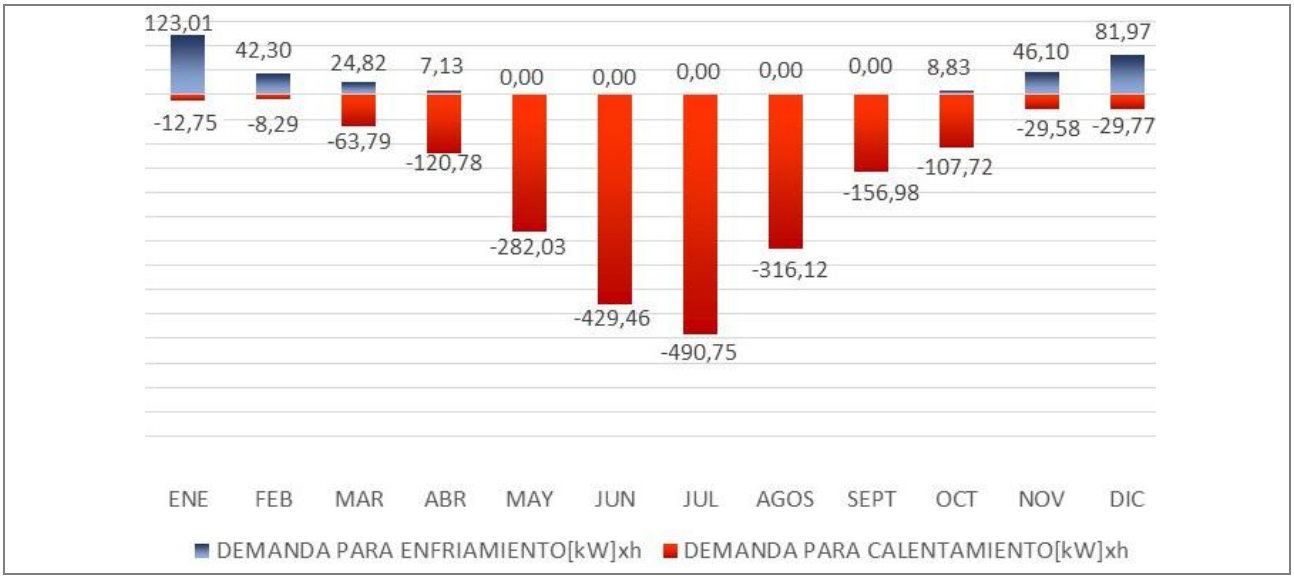
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.200** | °C Hs | 14% |
| HORAS DE DISCONFORT POR FRIO | **4.538** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.738** | **°C Hs** | **66%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

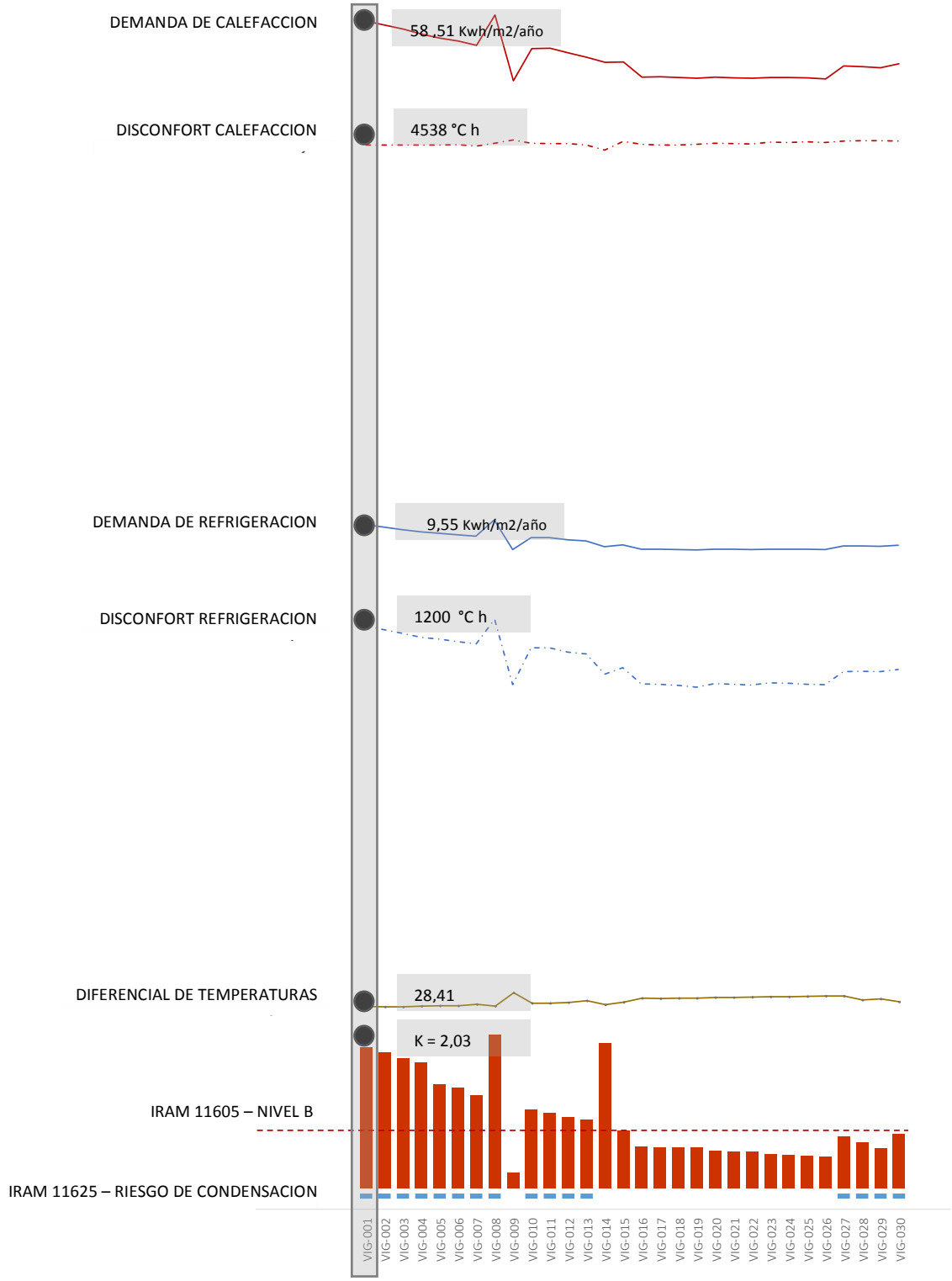



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **334,16** | kWh | 9,55 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **2.048,02** | kWh | 58,51 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.382,18** | kWh | **68,06** | kWh/m2/año |

| VIG-001 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 112 | N° 113 | N° 114 | N° 114 | N° 024 | N° 113 |



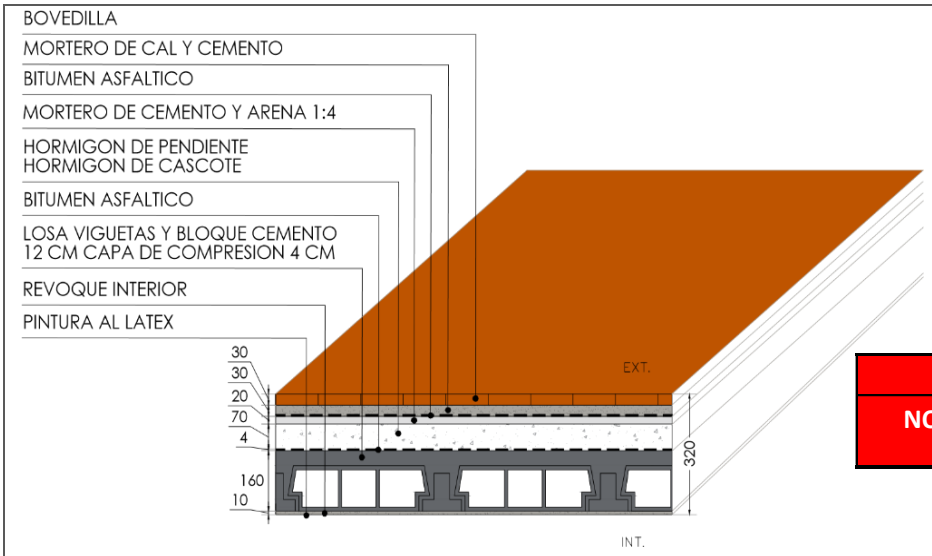

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 2,03 | 100% | 28,41 | 58,51 | 9,55 | 4538 | 1200 |
| INC. FAMILIA | 202,46% | 0% | 97,21% | 125,51% | 228,72% | 99,64% | 163,68% |
| INC. MUNDIAL | 250,62% | 208% | 95,66% | 131,55% | 232,18% | 99,50% | 189,98% |

| VIG-002 | CU | LOSAS VIGUETAS |
|---|---|---|

CUBIERTA LOSA VIGUETAS PRETENSADAS Y BLOQUE CEMENTO ARENA H 12 CM CUBIERTA TRADICIONAL

## INDICE DE TRANSMITANCIA TERMICA "K"

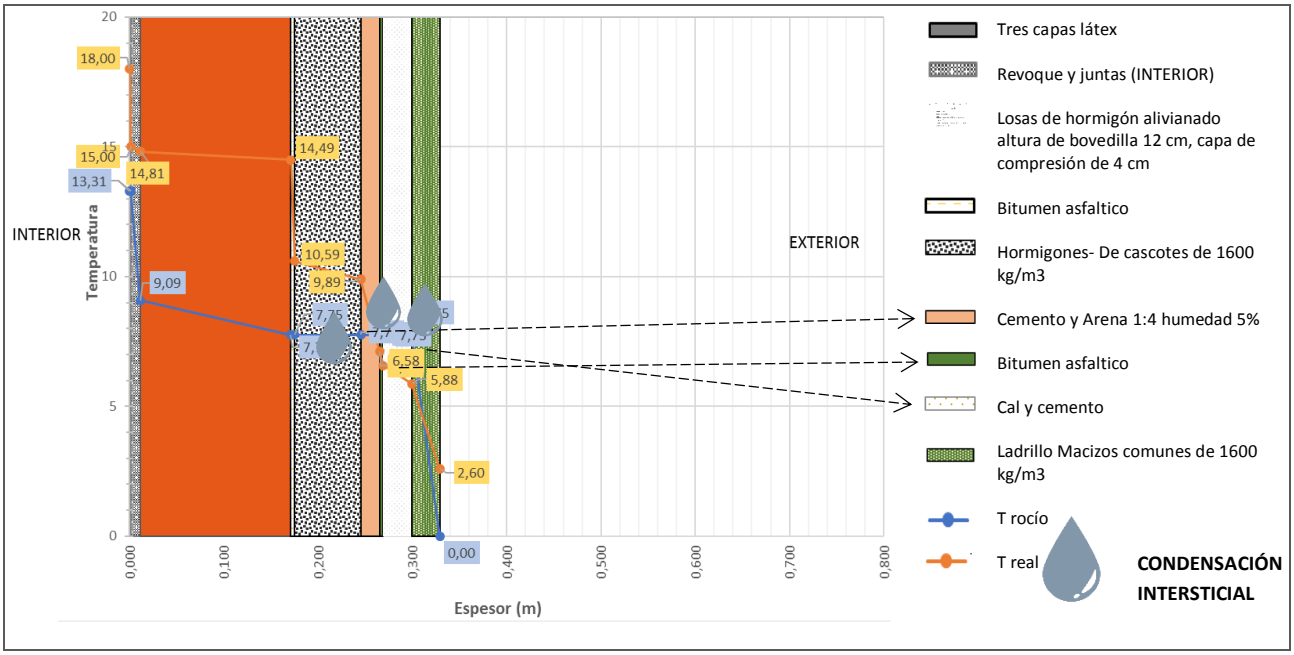
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,71 | 1,95 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 136,5 | 124,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,0** | **5,8** |
| | **Amortiguamiento:** | 0,107 | 0,119 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,9** | **4,1** |
| | **Amortiguamiento:** | 0,213 | 0,342 |

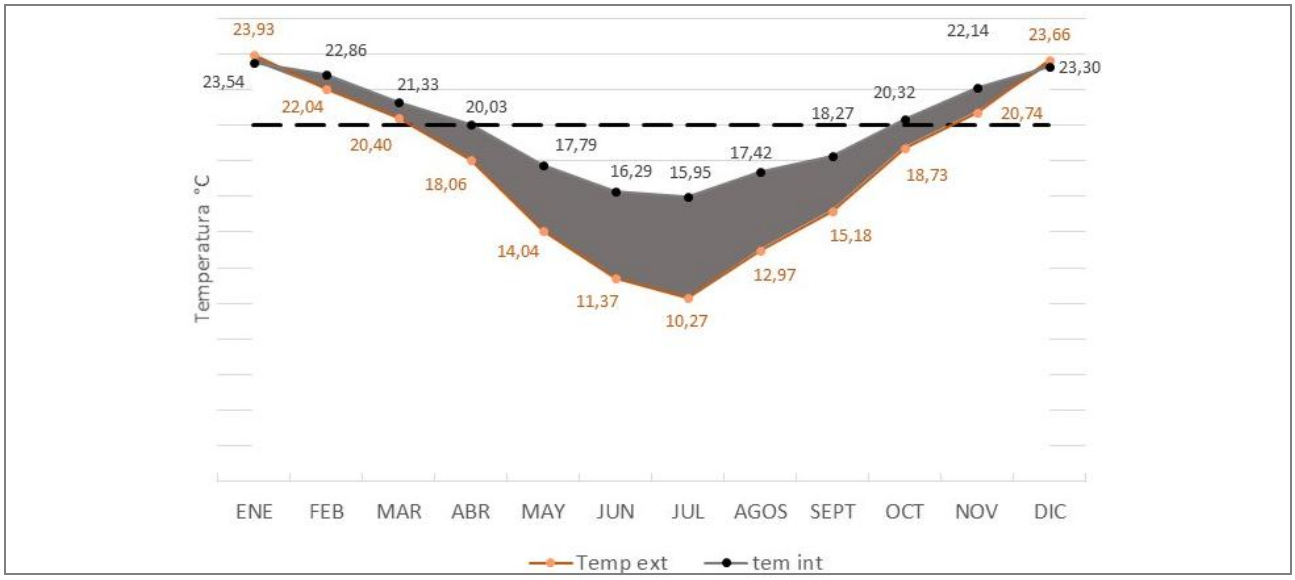
| VIG-002 | CU | LOSAS VIGUETAS |
|---|---|---|

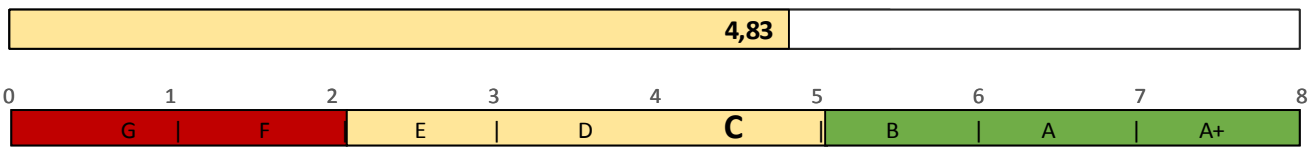
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 24:00 hs | **28,00** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **11,84** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



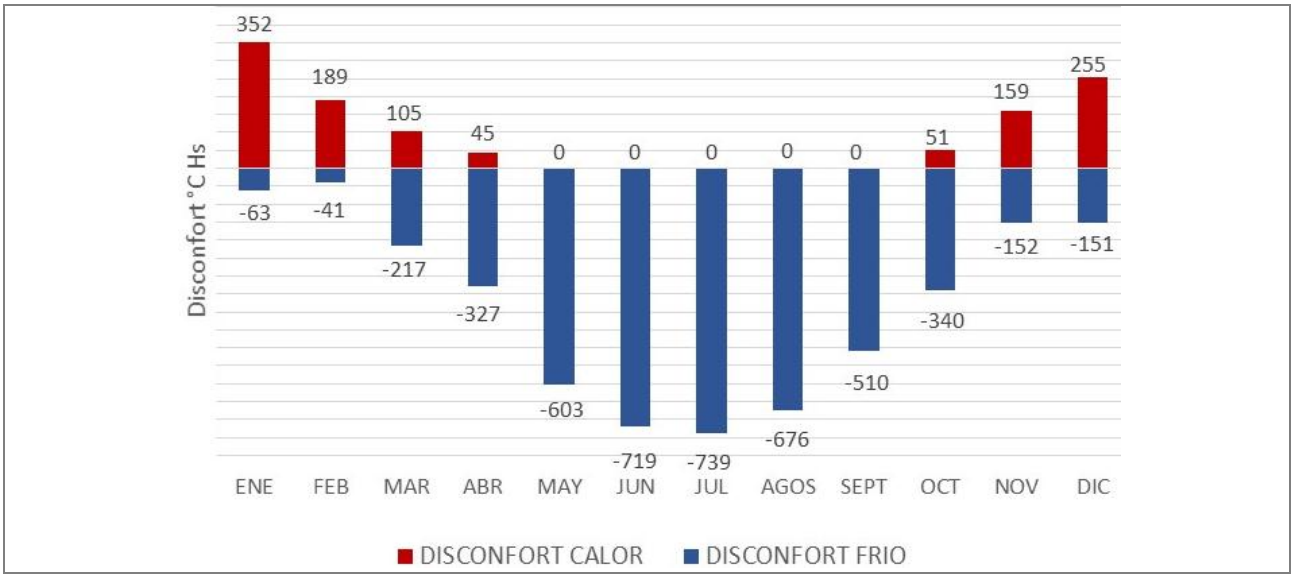




4,83 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,60

| VIG-002 | CU | LOSAS VIGUETAS |
|---|---|---|

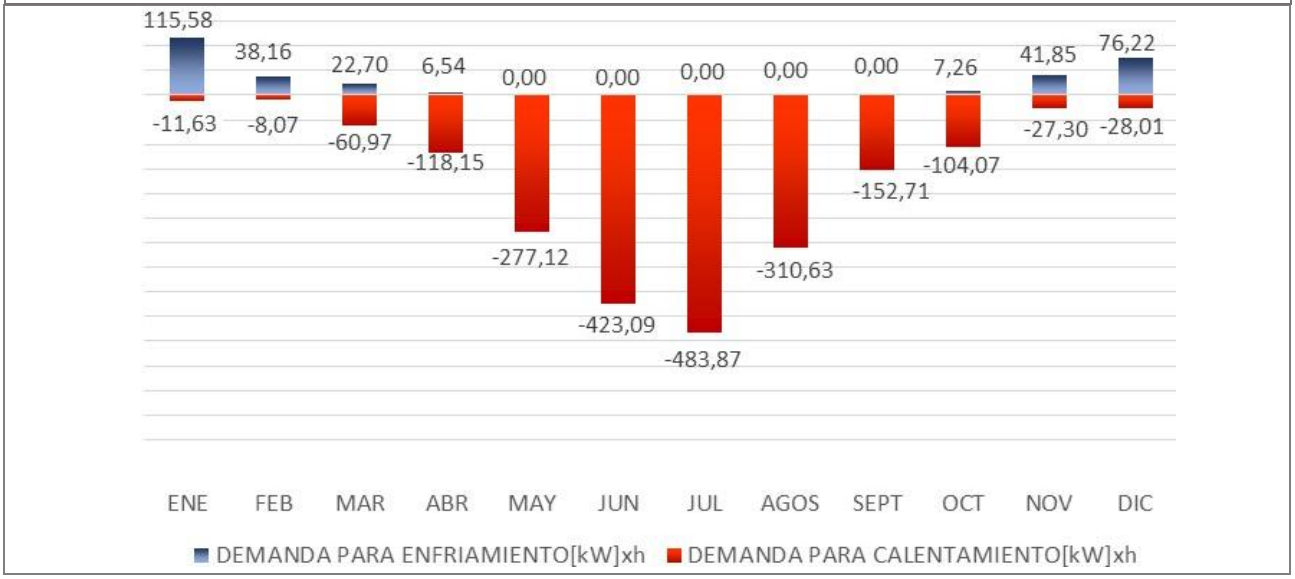
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.157** | °C Hs | 13% |
| HORAS DE DISCONFORT POR FRIO | **4.536** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.693** | **°C Hs** | **65%** |

## DEMANDA ENERGÉTICA PARA CLIMATIZACIÓN-kWh RÉGIMEN DINÁMICO E-PLUS /8760 HS

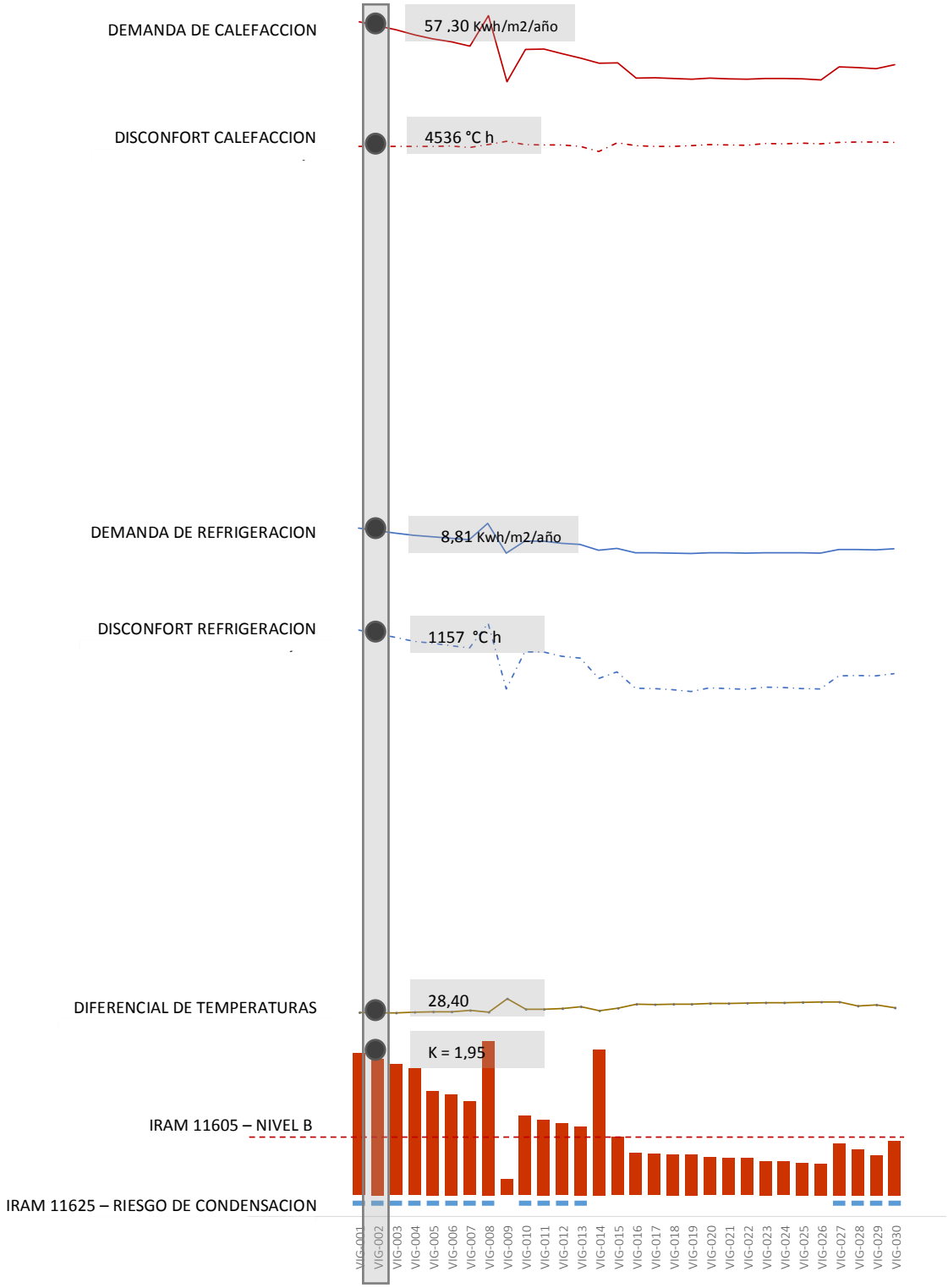



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **308,30** | kWh | 8,81 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **2.005,62** | kWh | 57,30 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.313,92** | kWh | **66,11** | kWh/m2/año |

| VIG-002 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 111 | N° 114 | N° 113 | N° 113 | N° 017 | N° 112 |



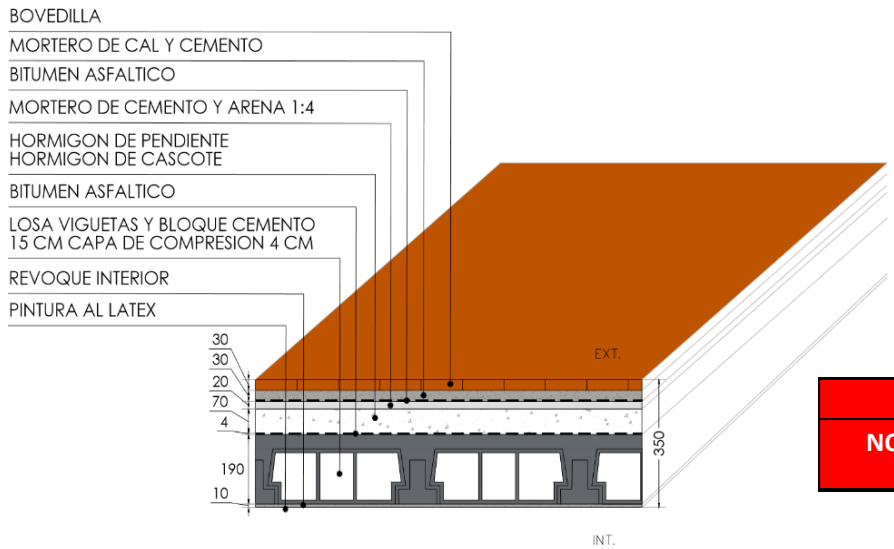

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 1,95 | 100% | 28,40 | 57,3 | 8,81 | 4536 | 1157 |
| INC. FAMILIA | 194,48% | 0% | 97,17% | 122,91% | 211,00% | 99,60% | 157,82% |
| INC. MUNDIAL | 240,74% | 0% | 95,62% | 128,83% | 214,19% | 99,45% | 183,17% |

| VIG-003 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS PRETENSADAS Y BLOQUE DE CEMENTO ARENA H 15 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLA.

## INDICE DE TRANSMITANCIA TERMICA "K"

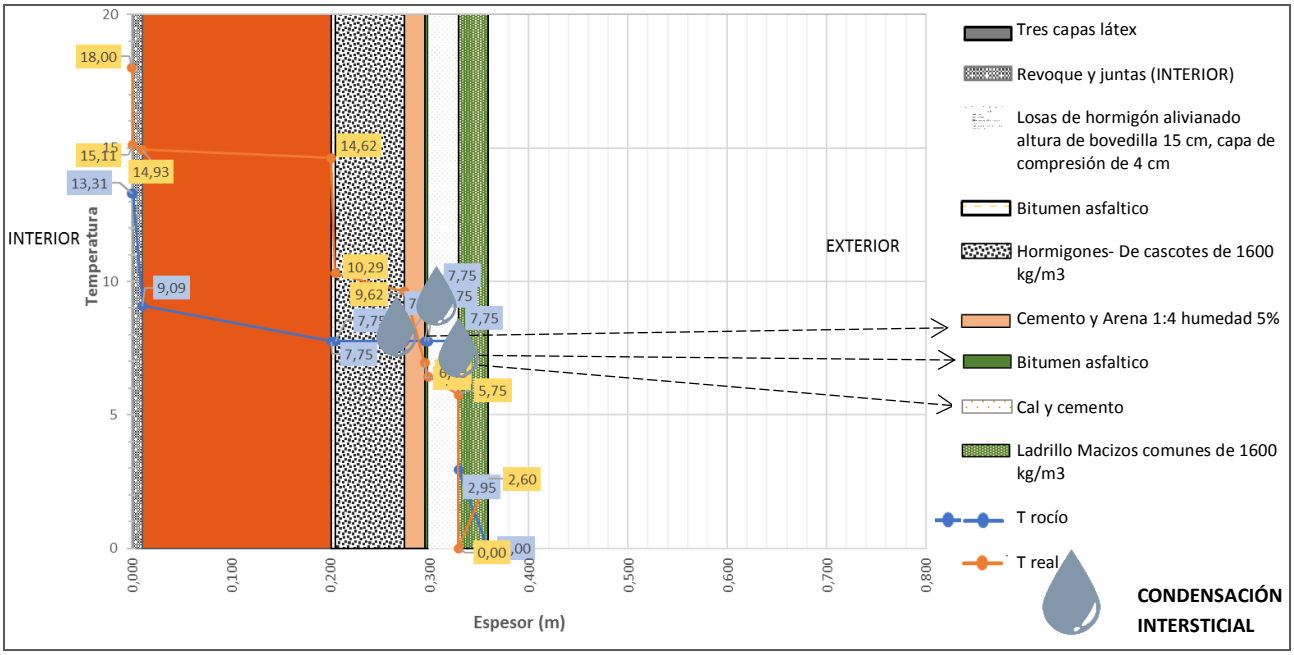
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,66 | 1,87 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 129,6 | 117,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,2** | **5,9** |
| | **Amortiguamiento:** | 0,101 | 0,113 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,0** | **4,1** |
| | **Amortiguamiento:** | 0,205 | 0,341 |

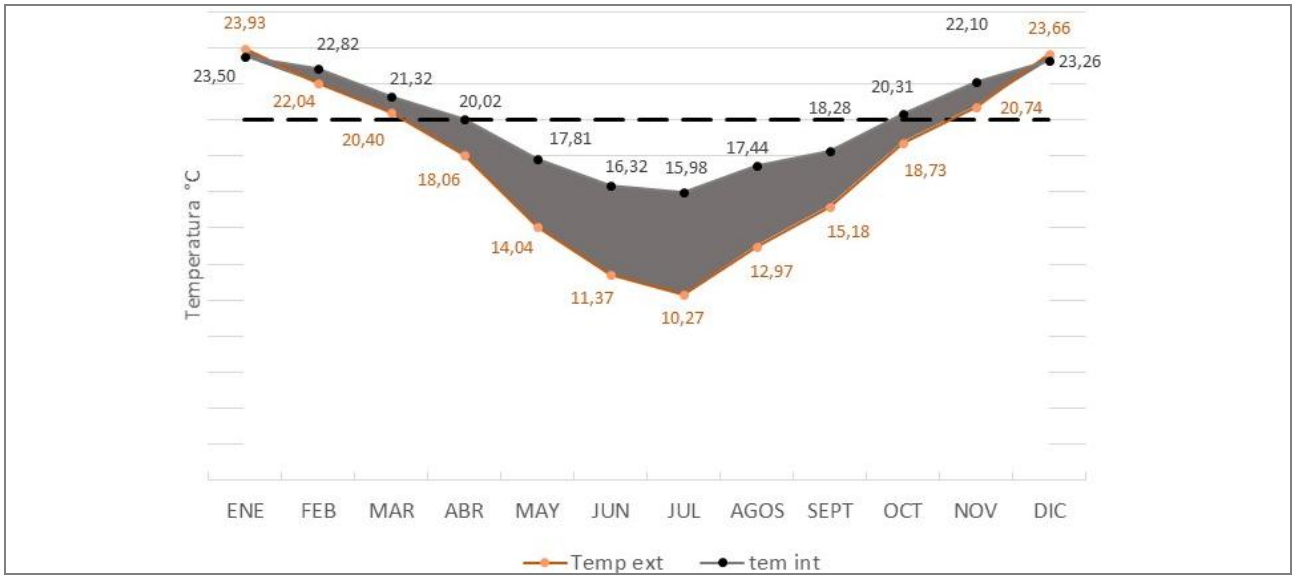
| VIG-003 | CU | LOSAS VIGUETAS |
|---|---|---|

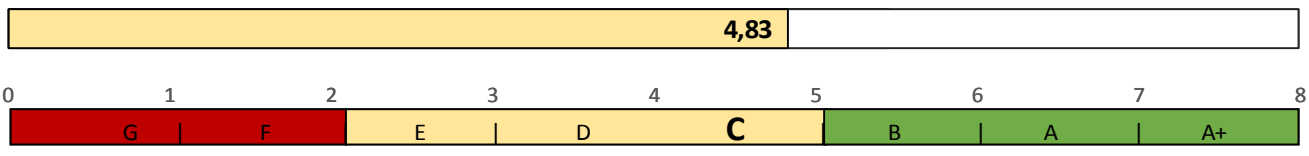
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 24:00 hs | **27,83** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **11,96** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



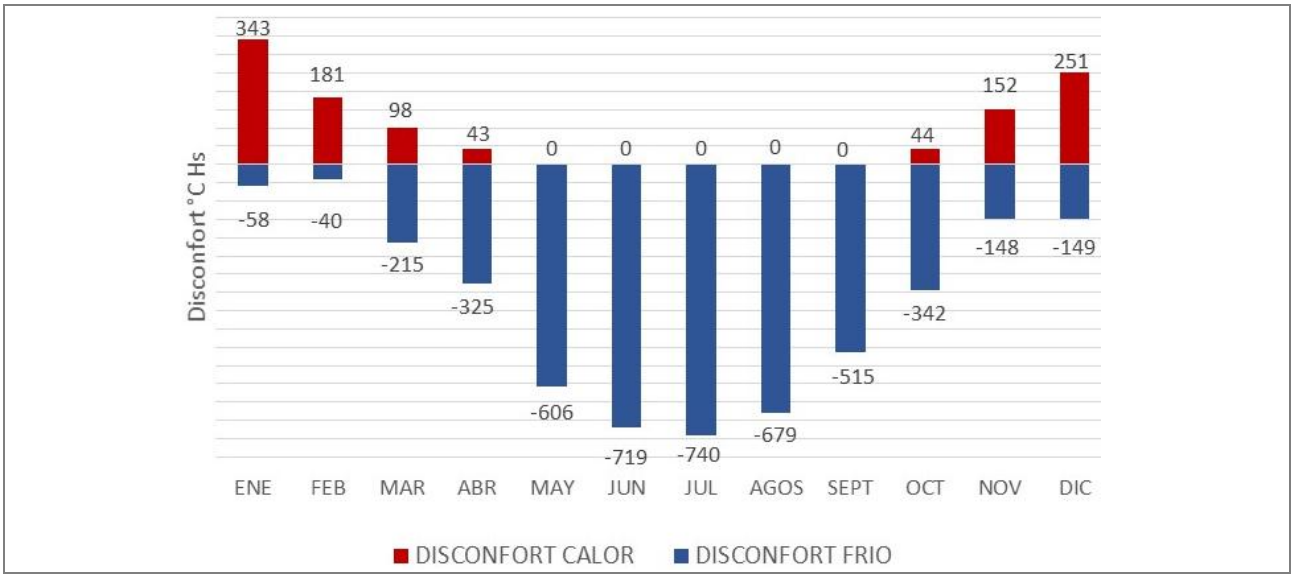




4,83 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,60

| VIG-003 | CU | LOSAS VIGUETAS |
|---|---|---|

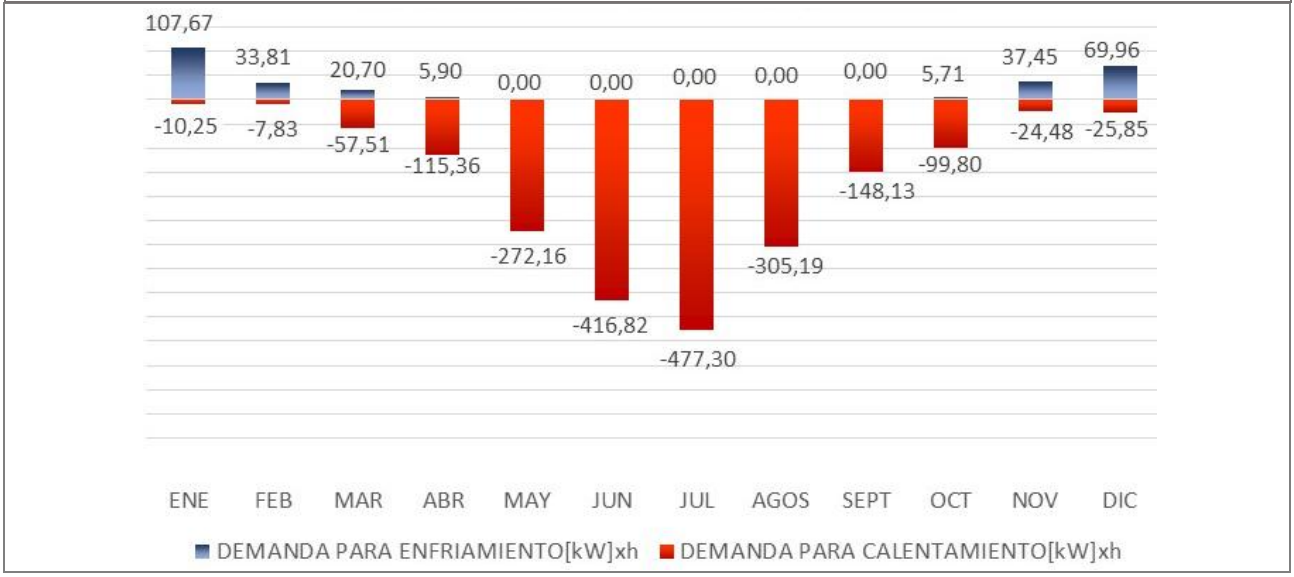
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.112** | °C Hs | 13% |
| HORAS DE DISCONFORT POR FRIO | **4.536** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.648** | **°C Hs** | **65%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

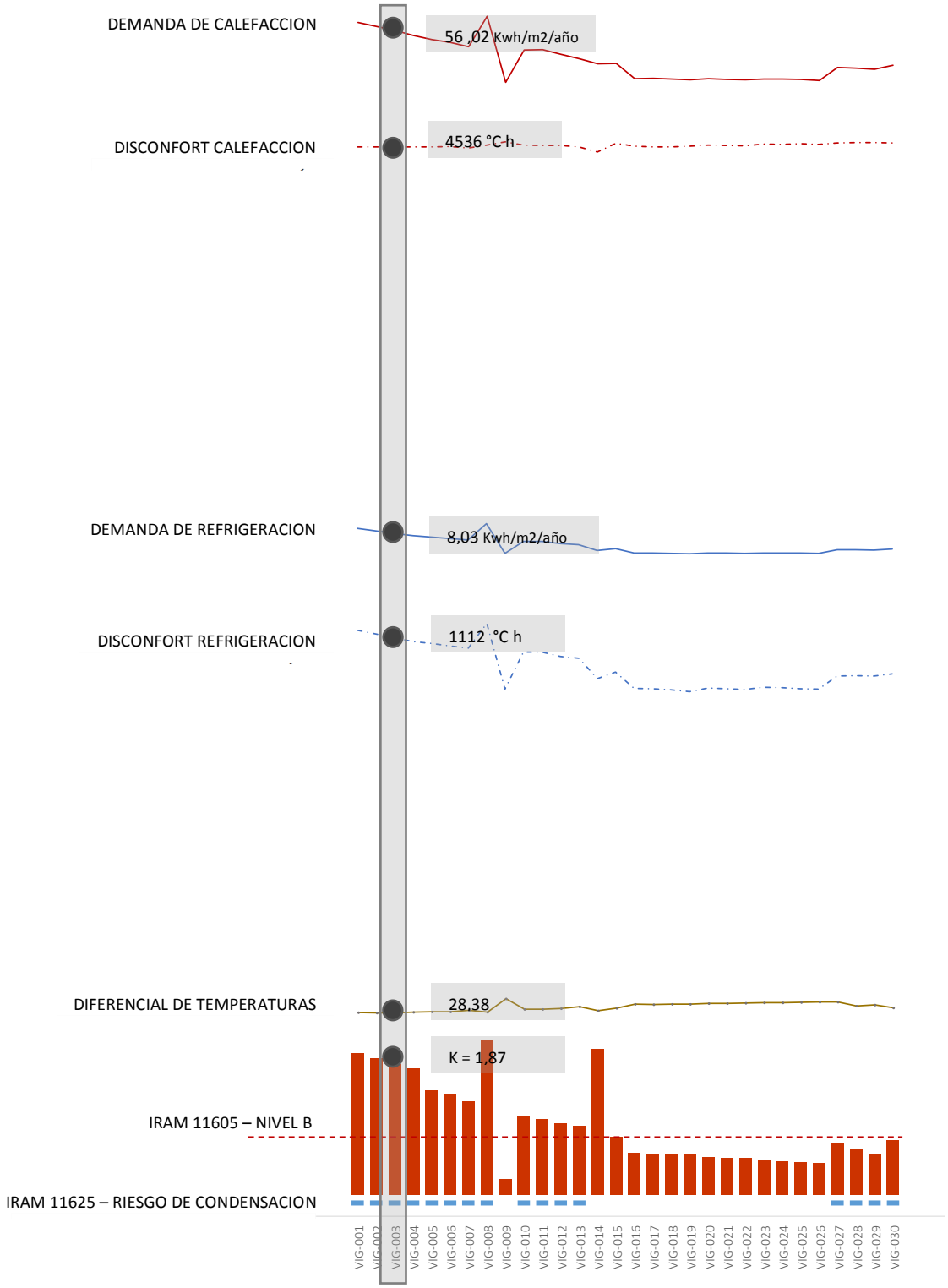



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **281,19** | kWh | 8,03 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.960,67** | kWh | 56,02 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.241,86** | kWh | **64,05** | kWh/m2/año |

| VIG-003 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 110 | N° 115 | N° 112 | N° 112 | N° 018 | N° 111 |



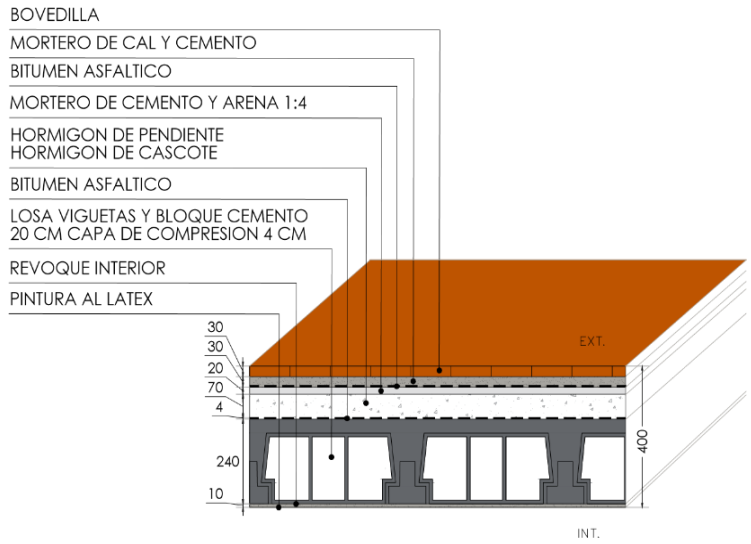

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 1,87 | 100% | 28,38 | 56,02 | 8,03 | 4536 | 1112 |
| INC. FAMILIA | 186,50% | 0% | 97,11% | 120,17% | 192,32% | 99,60% | 151,68% |
| INC. MUNDIAL | 230,86% | 0% | 95,56% | 125,95% | 195,22% | 99,45% | 176,04% |

| VIG-004 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS PRETENSADAS Y BLOQUE DE CEMENTO ARENA H 20 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLA.

## INDICE DE TRANSMITANCIA TERMICA "K"

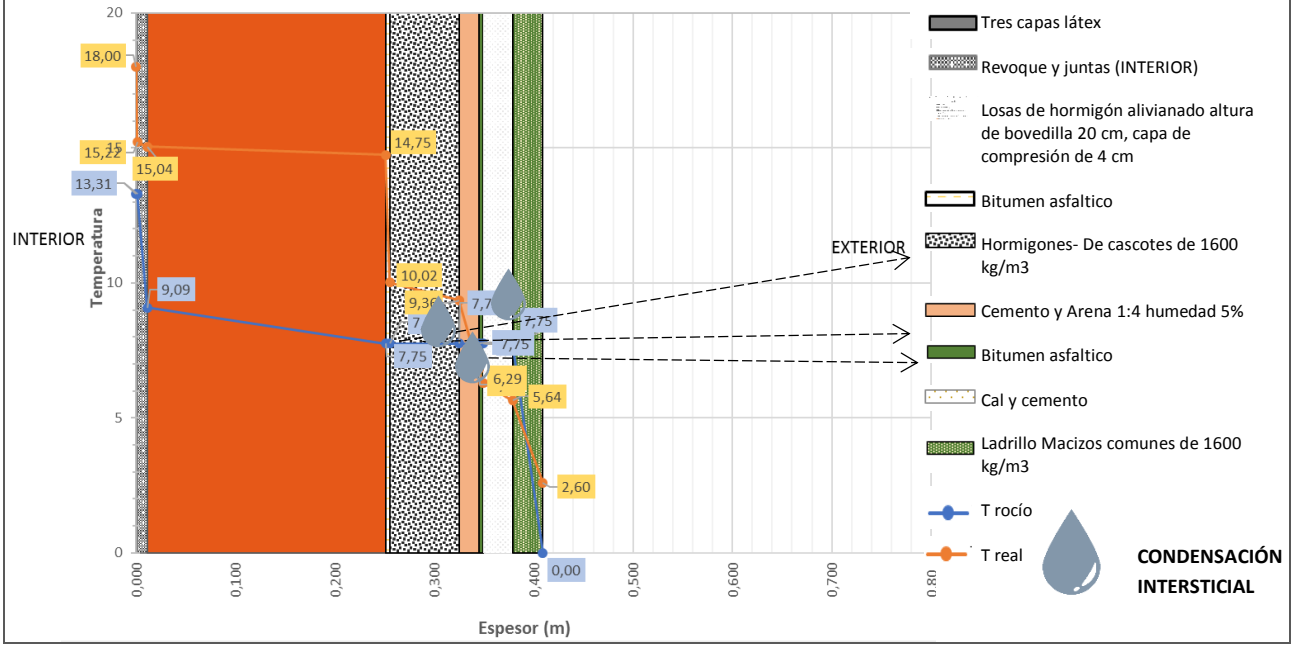
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,60 | 1,81 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



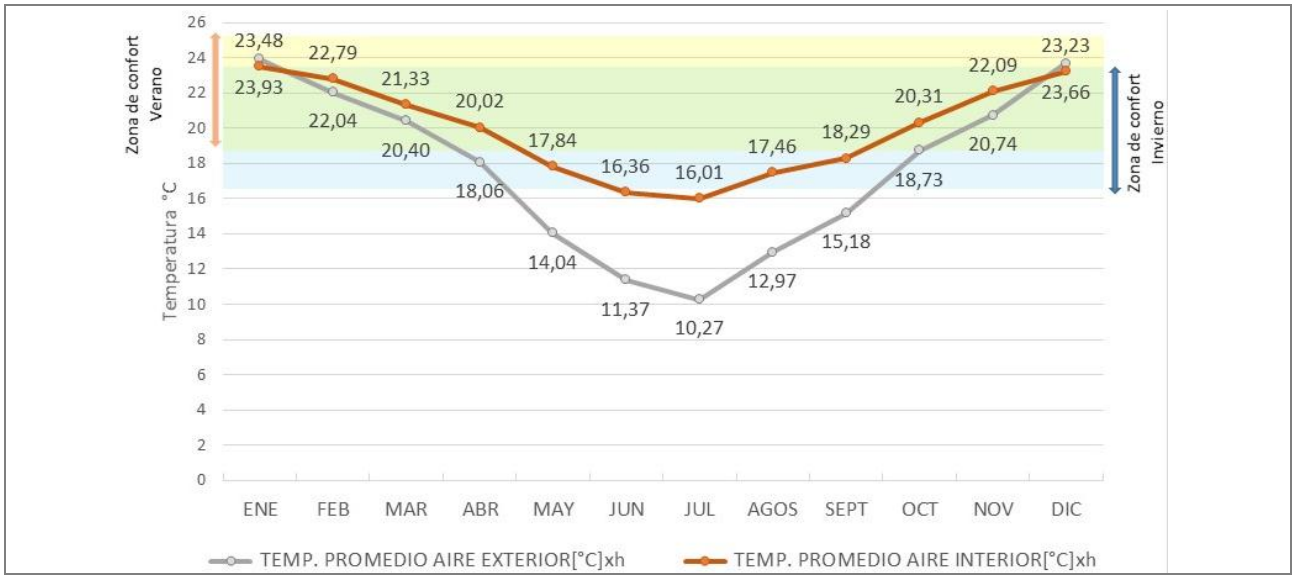

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 123,3 | 111,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,3** | **6,0** |
| | **Amortiguamiento:** | 0,095 | 0,107 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,2** | **4,1** |
| | **Amortiguamiento:** | 0,198 | 0,339 |

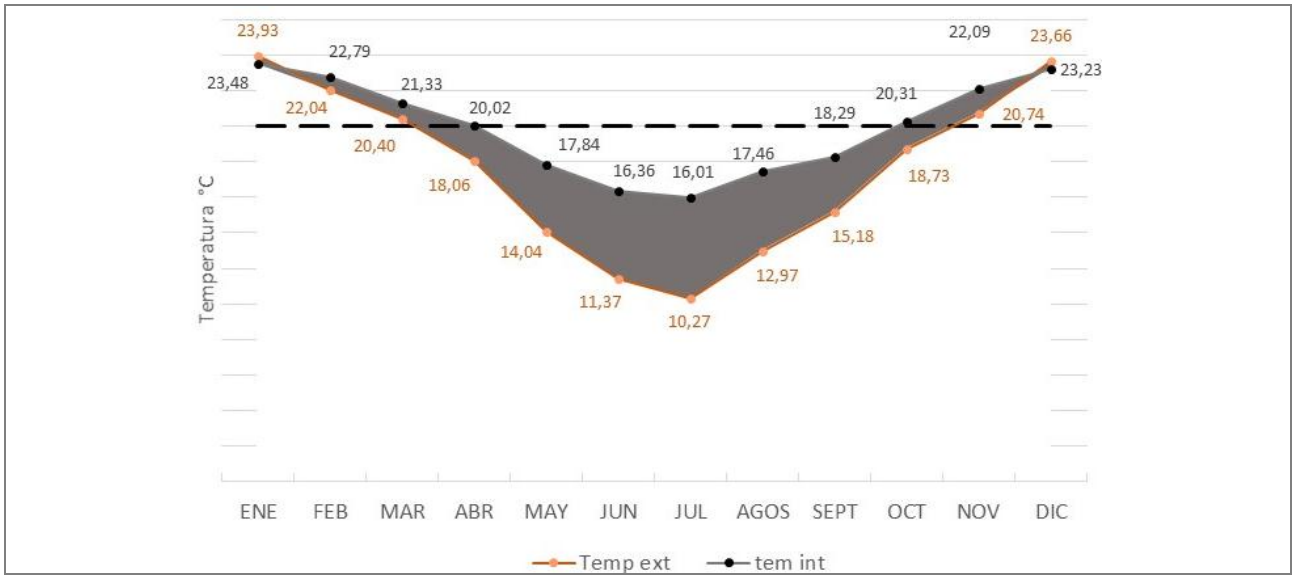
| VIG-004 | CU | LOSAS VIGUETAS |
|---|---|---|

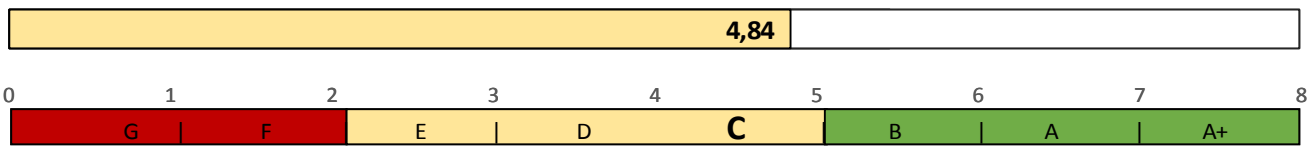
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 24:00 hs | **27,62** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,09** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



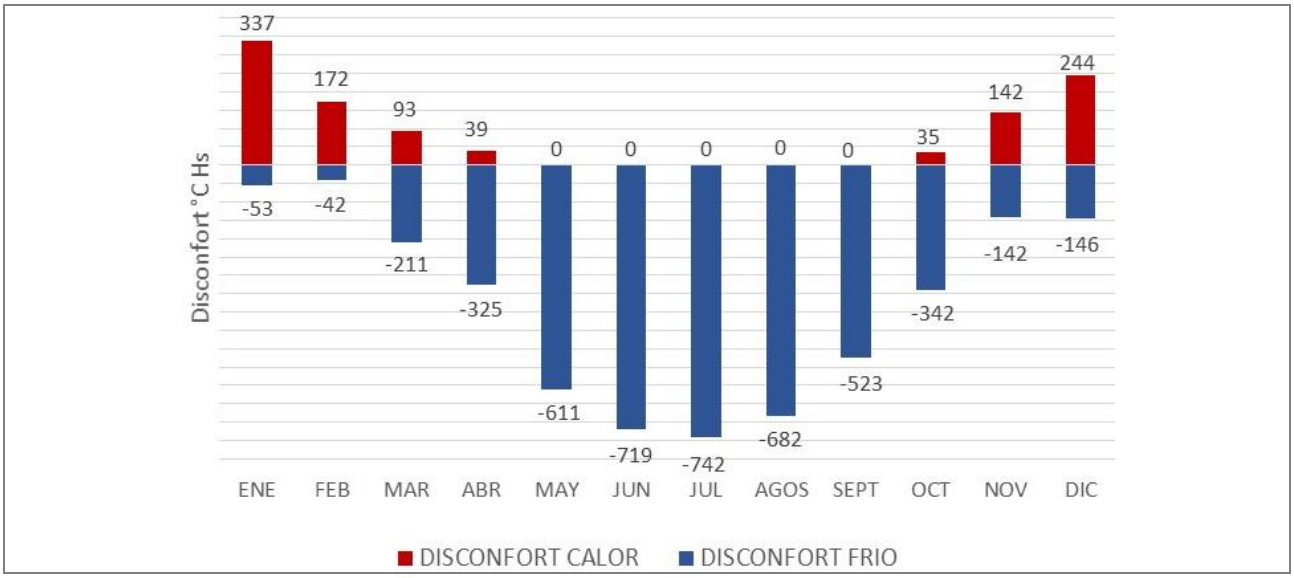




4,84 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| VIG-004 | CU | LOSAS VIGUETAS |
|---|---|---|

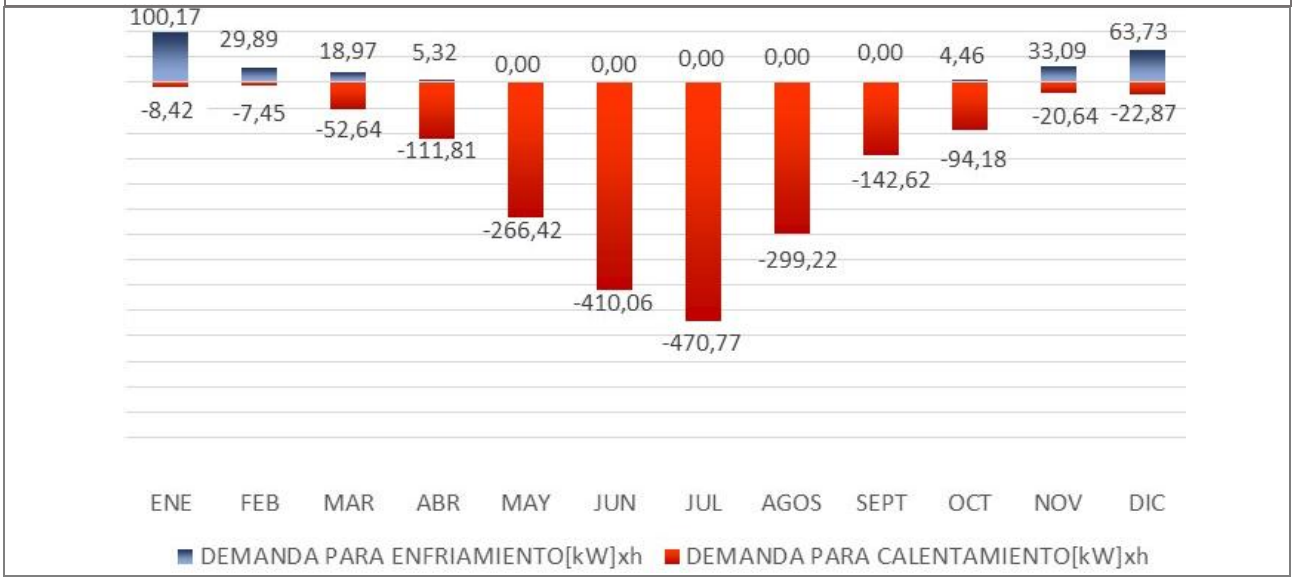
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.062** | °C Hs | 12% |
| HORAS DE DISCONFORT POR FRIO | **4.536** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.598** | **°C Hs** | **64%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

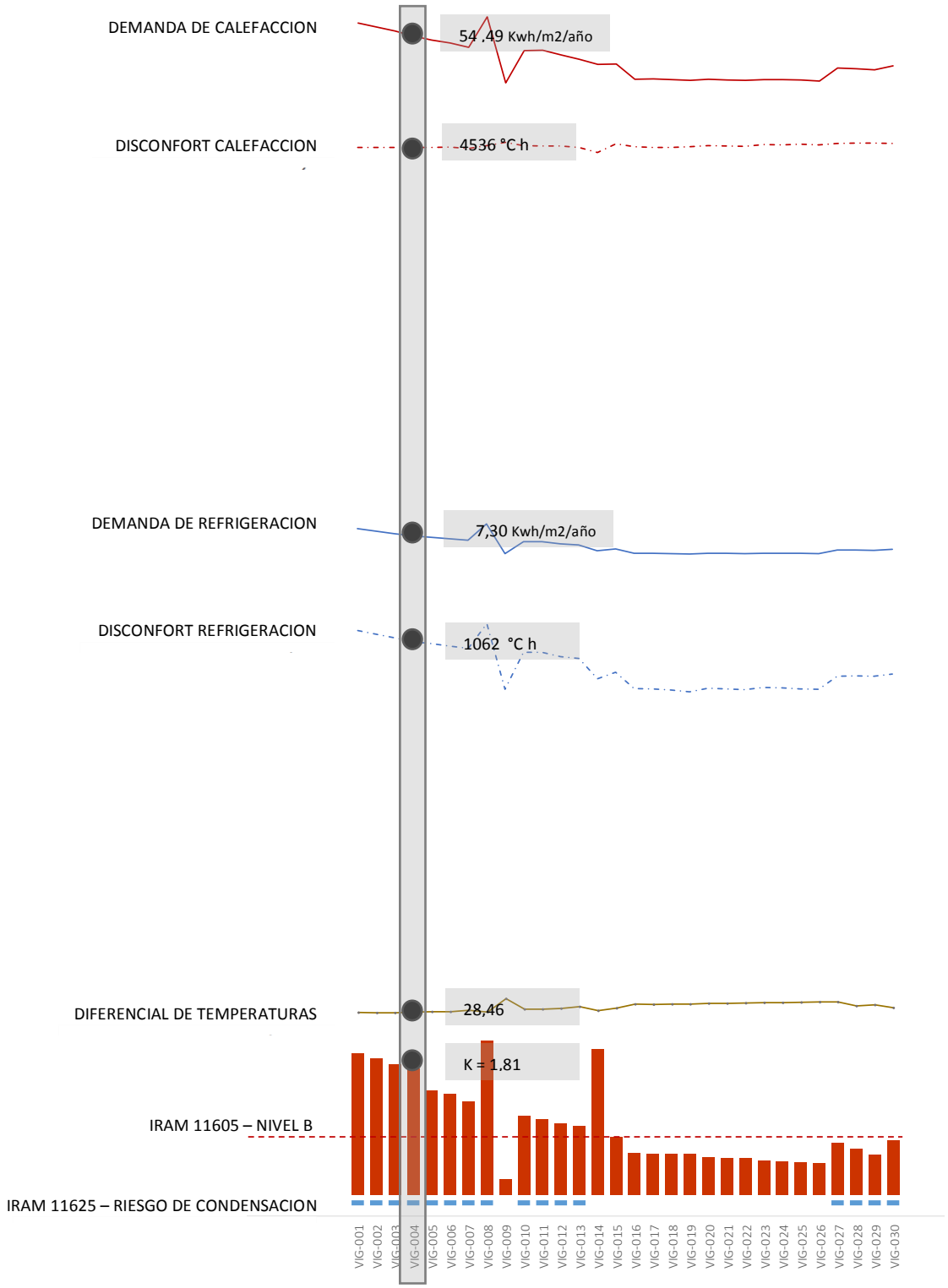



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **255,63** | kWh | 7,30 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.907,11** | kWh | 54,49 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.162,74** | kWh | **61,79** | kWh/m2/año |

| VIG-004 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 109 | N° 112 | N° 111 | N° 111 | N° 019 | N° 110 |



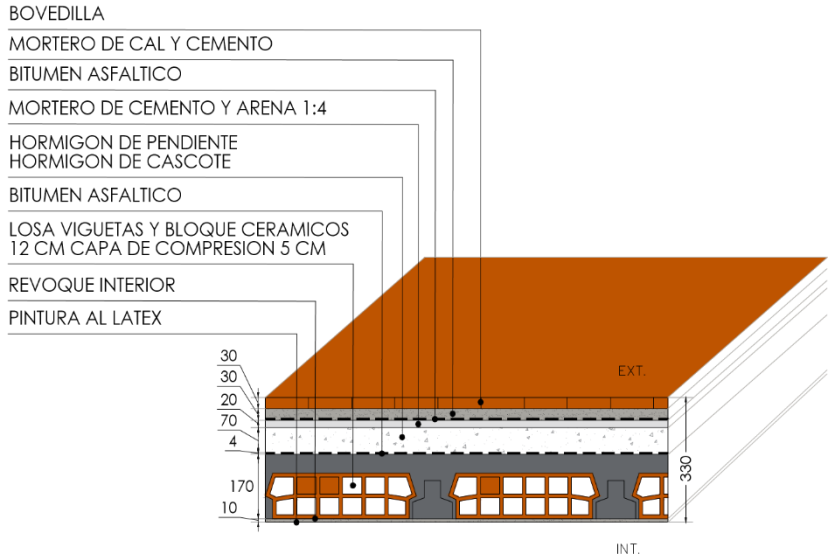

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 1,81 | 100% | 28,46 | 54,49 | 7,3 | 4536 | 1062 |
| INC. FAMILIA | 180,52% | 0% | 97,38% | 116,89% | 174,84% | 99,60% | 144,86% |
| INC. MUNDIAL | 223,46% | 0% | 95,83% | 122,51% | 177,47% | 99,45% | 168,13% |

| VIG-005 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS PRETENSADAS Y BLOQUES CERAMICOS H 12 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLAS.

## INDICE DE TRANSMITANCIA TERMICA "K"

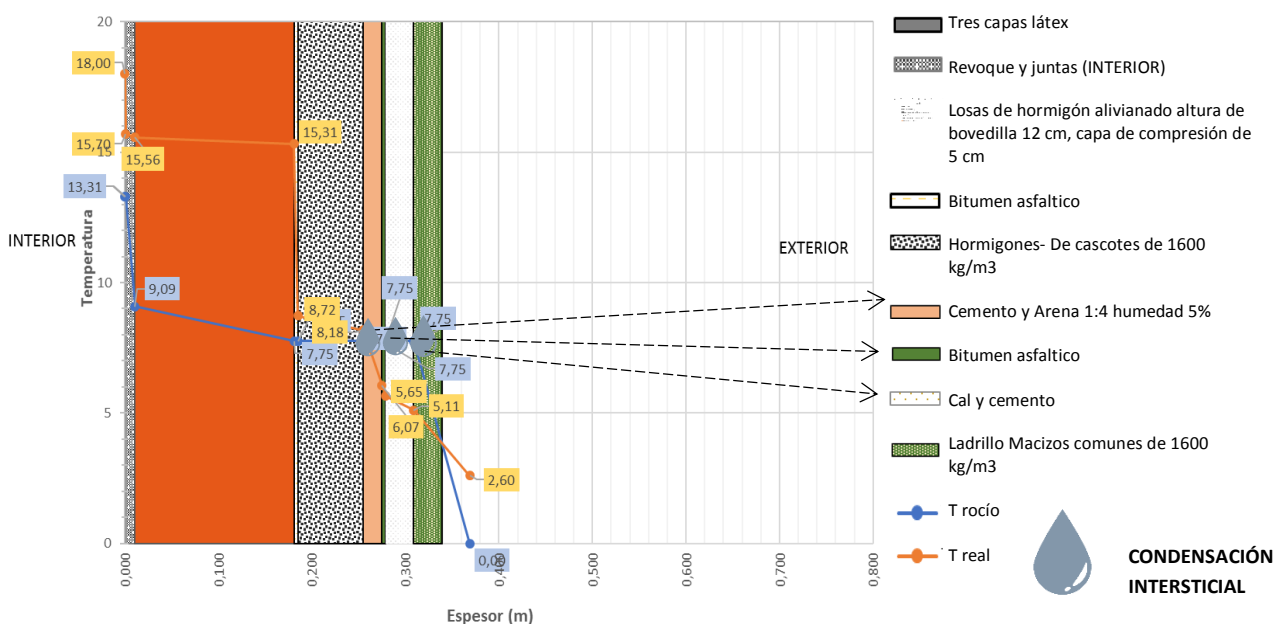
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,35 | 1,49 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



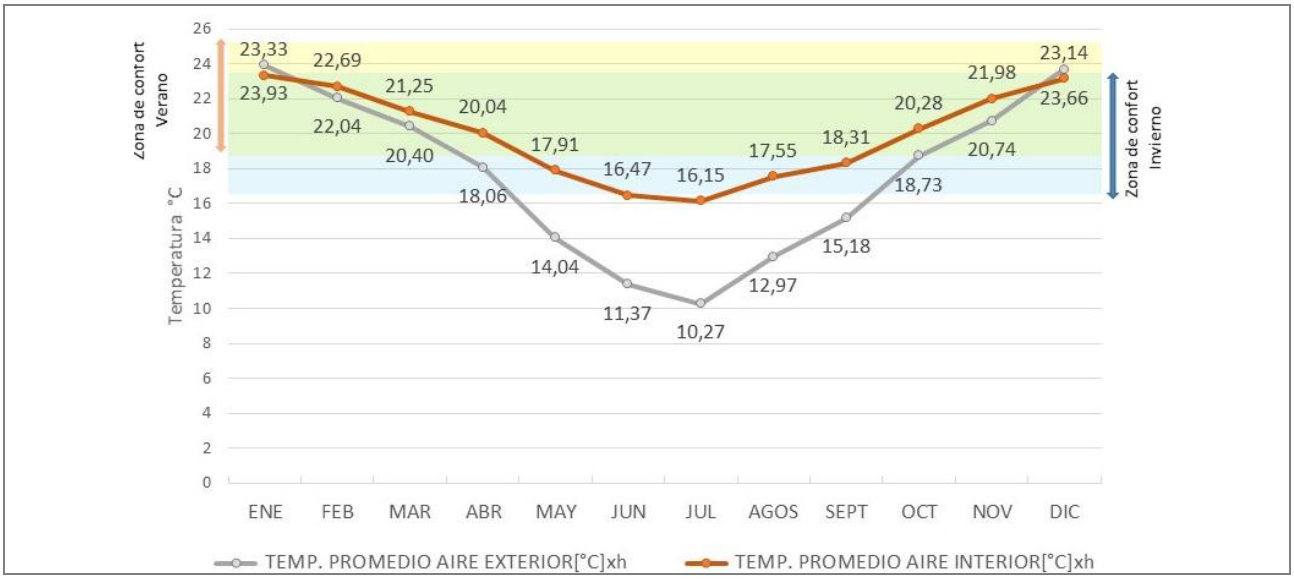

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 96,1 | 86,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,2** | **6,8** |
| | **Amortiguamiento:** | 0,070 | 0,080 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,9** | **4,2** |
| | **Amortiguamiento:** | 0,164 | 0,331 |

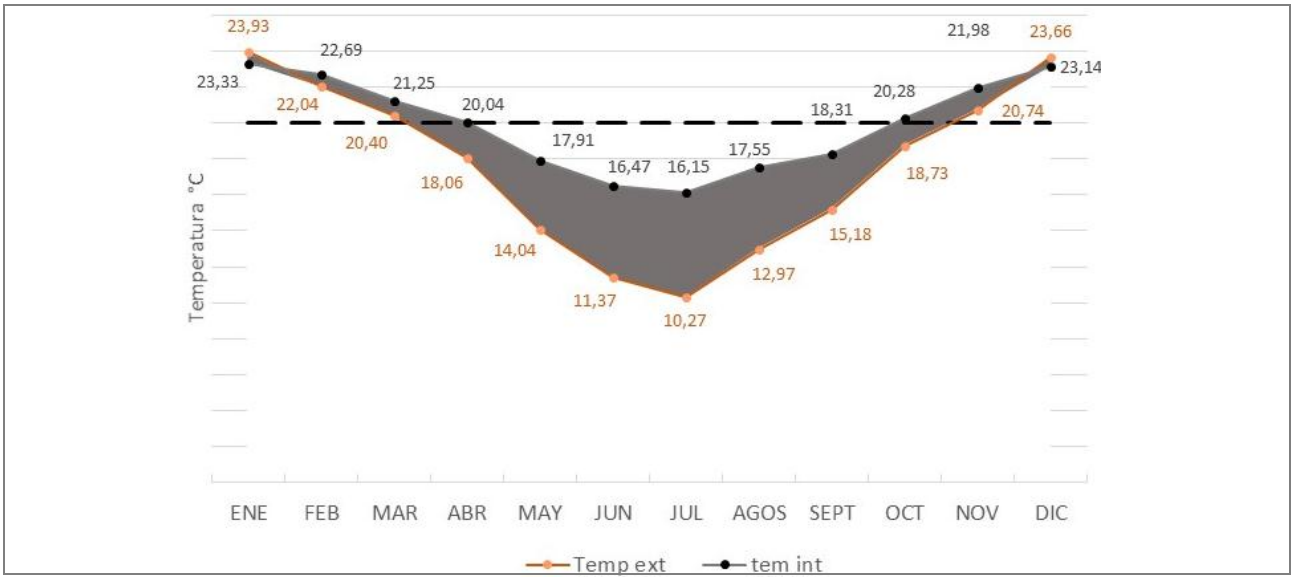
| VIG-005 | CU | LOSAS VIGUETAS |
|---|---|---|

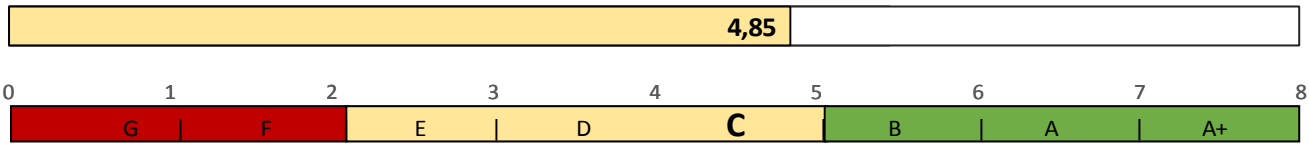
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 24:00 hs | **27,55** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,18** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



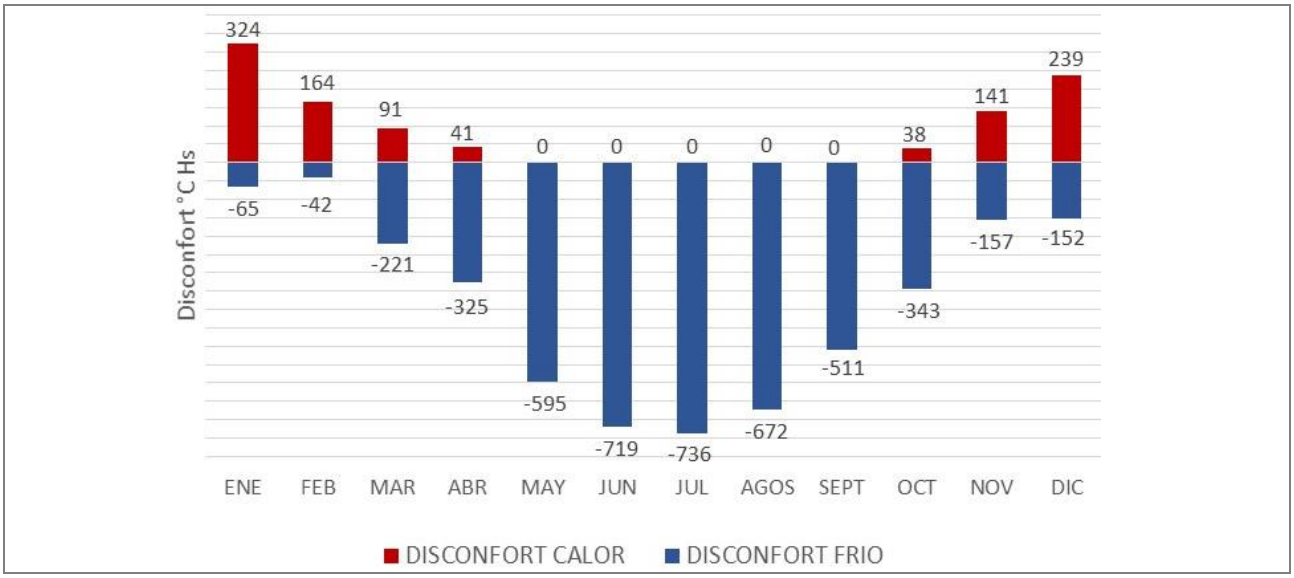




4,85 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| VIG-005 | CU | LOSAS VIGUETAS |
|---|---|---|

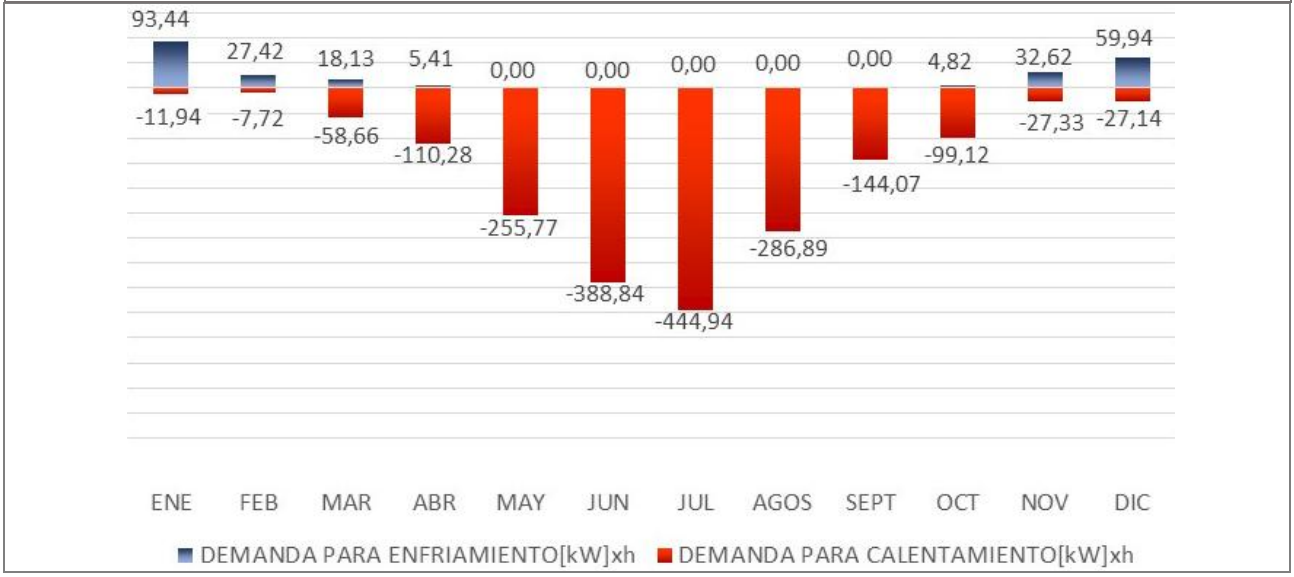
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.039** | °C Hs | 12% |
| HORAS DE DISCONFORT POR FRIO | **4.539** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.578** | **°C Hs** | **64%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

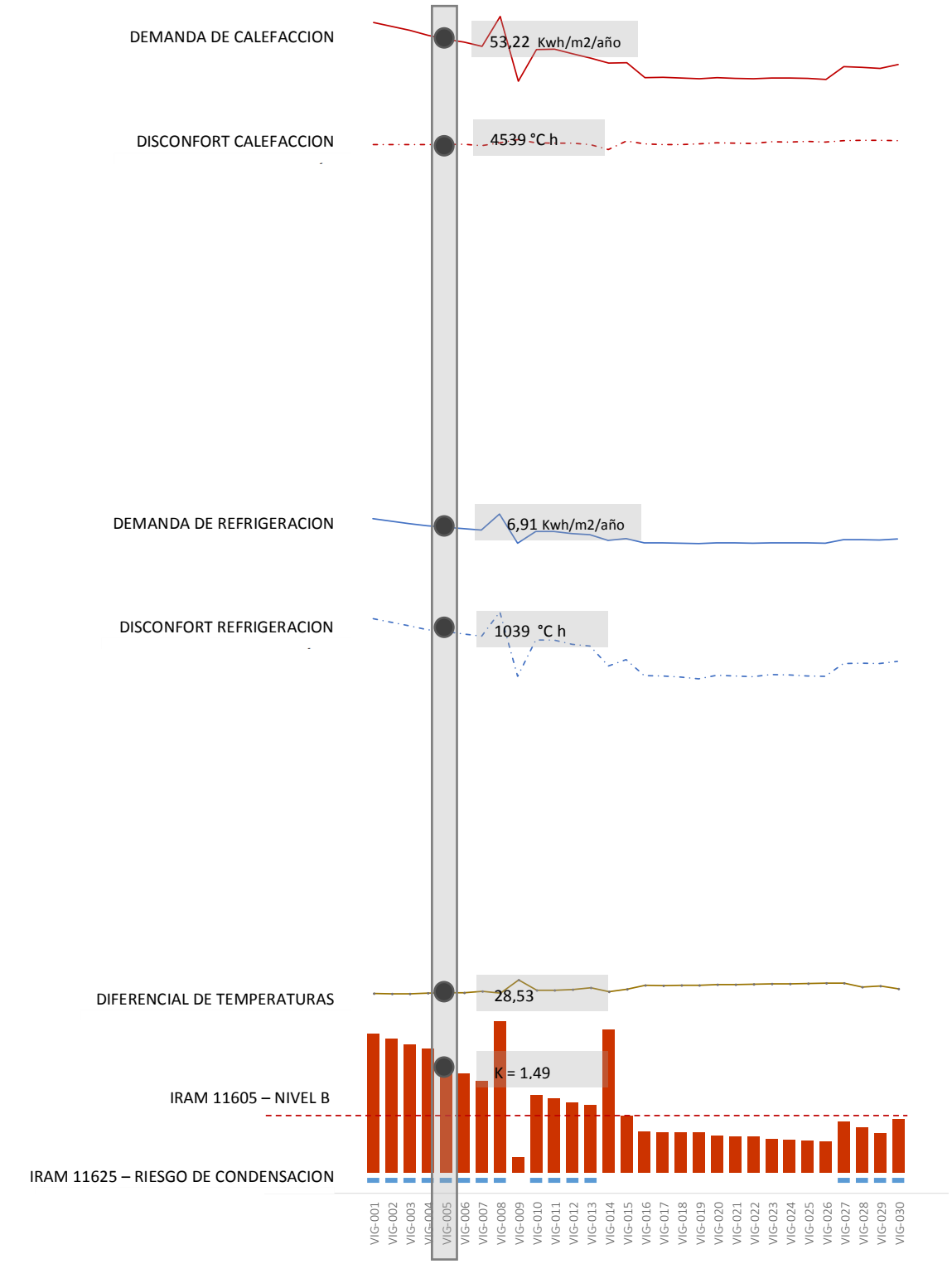



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **241,78** | kWh | 6,91 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.862,71** | kWh | 53,22 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.104,49** | kWh | **60,13** | kWh/m2/año |

| VIG-005 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 108 | N° 109 | N° 110 | N° 110 | N° 028 | N° 109 |



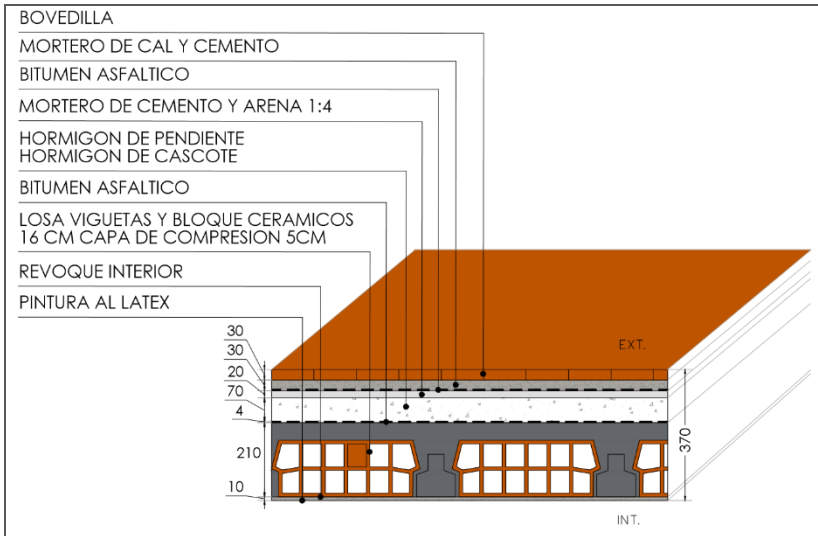

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 1,49 | 100% | 28,53 | 53,22 | 6,91 | 4539 | 1039 |
| INC. FAMILIA | 148,60% | 0% | 97,62% | 114,16% | 165,50% | 99,66% | 141,72% |
| INC. MUNDIAL | 183,95% | 0% | 96,06% | 119,65% | 167,99% | 99,52% | 164,49% |

| VIG-006 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS PRETENSADAS Y BLOQUES CERAMICOS H 16 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLAS.

## INDICE DE TRANSMITANCIA TERMICA "K"

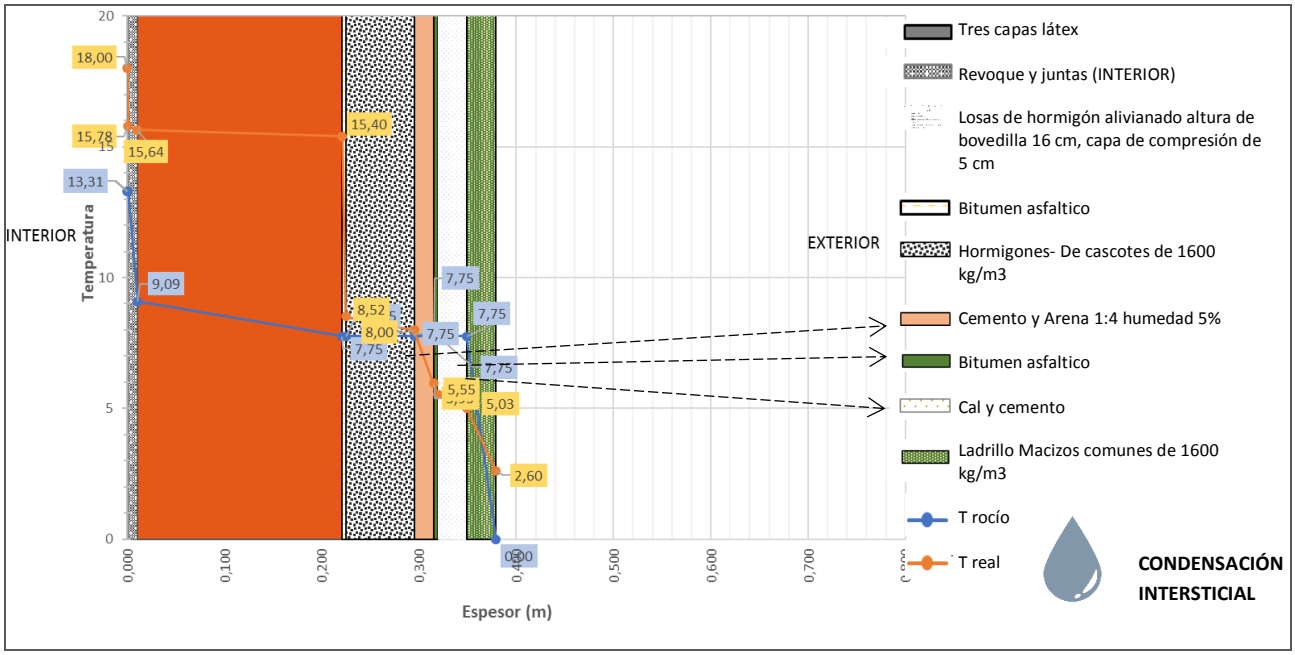
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,31 | 1,44 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



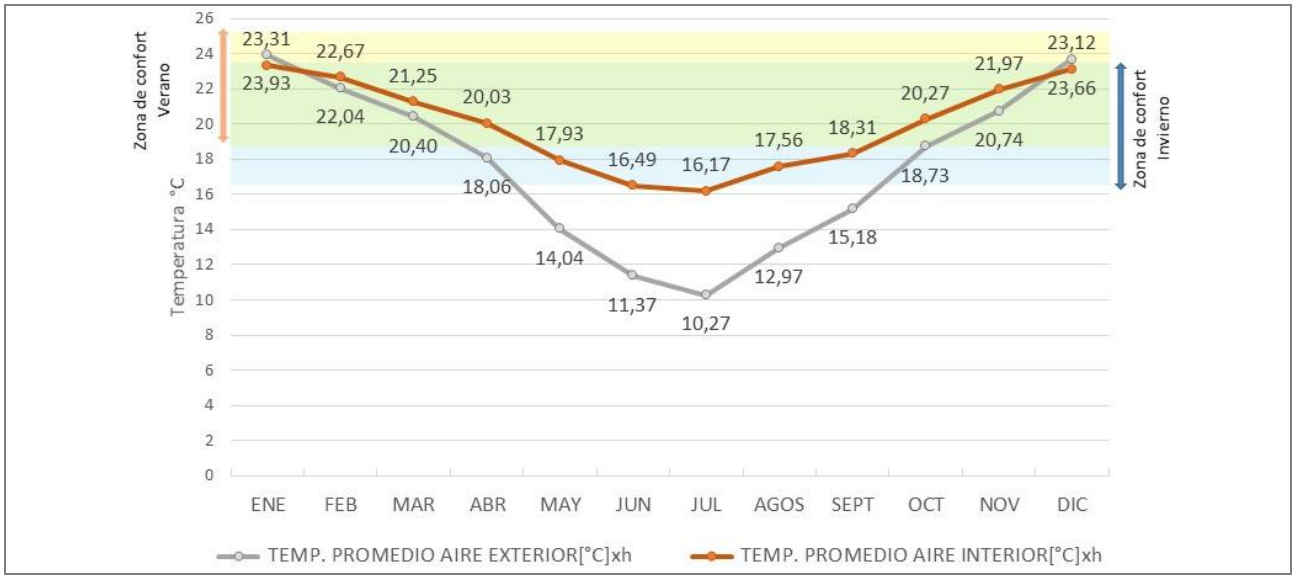

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 92,1 | 83,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,3** | **7,0** |
| | **Amortiguamiento:** | 0,066 | 0,075 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,0** | **4,2** |
| | **Amortiguamiento:** | 0,158 | 0,330 |

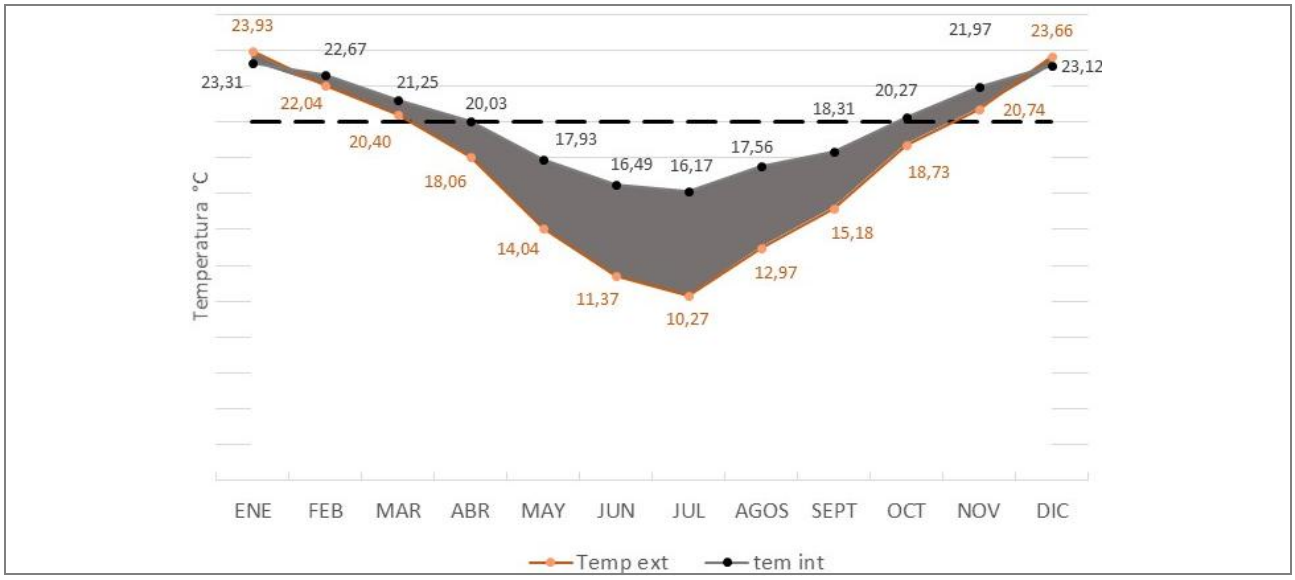
| VIG-006 | CU | LOSAS VIGUETAS |
|---|---|---|

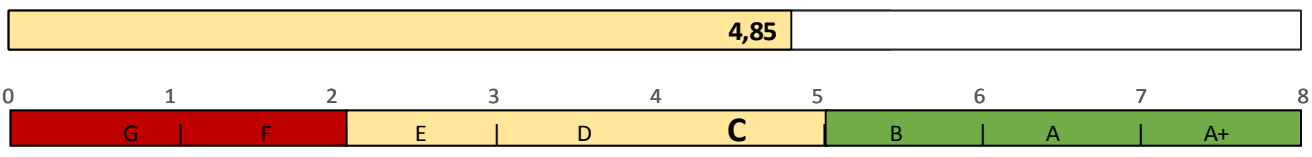
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 24:00 hs | **27,42** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,26** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



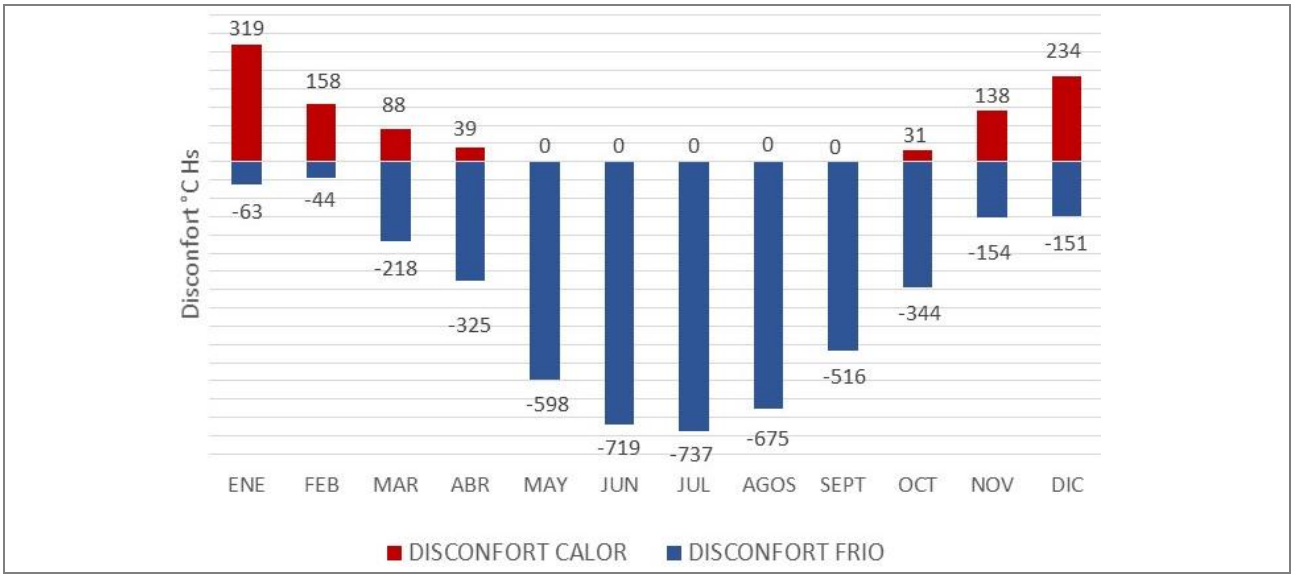




4,85 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| VIG-006 | CU | LOSAS VIGUETAS |
|---|---|---|

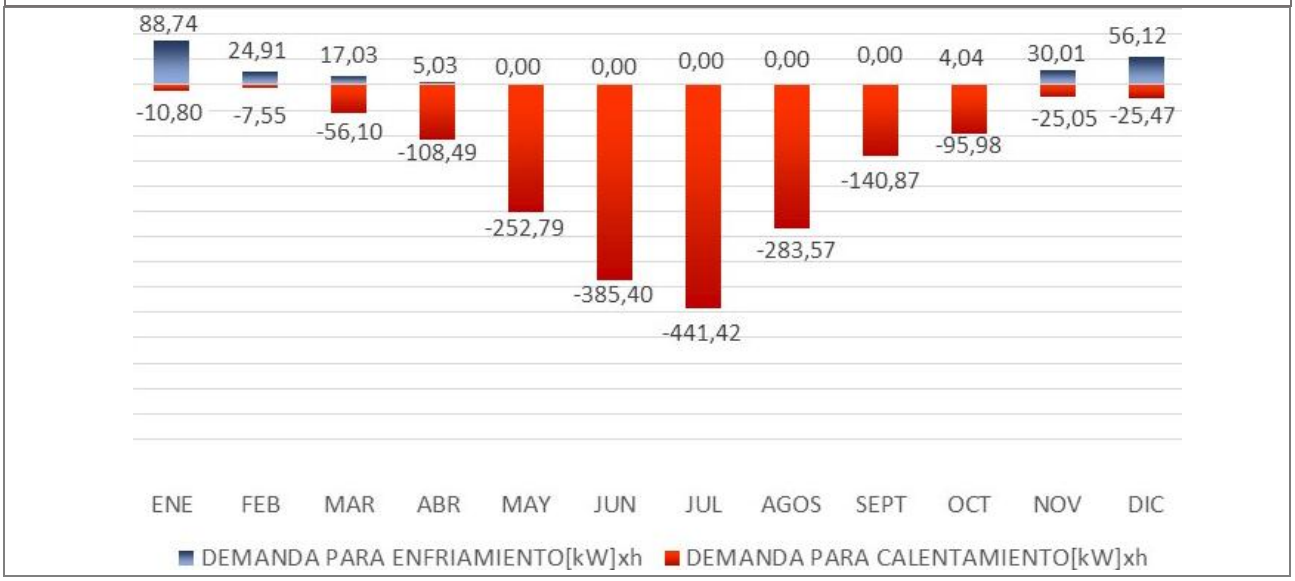
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.008** | °C Hs | 12% |
| HORAS DE DISCONFORT POR FRIO | **4.544** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.552** | **°C Hs** | **64%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

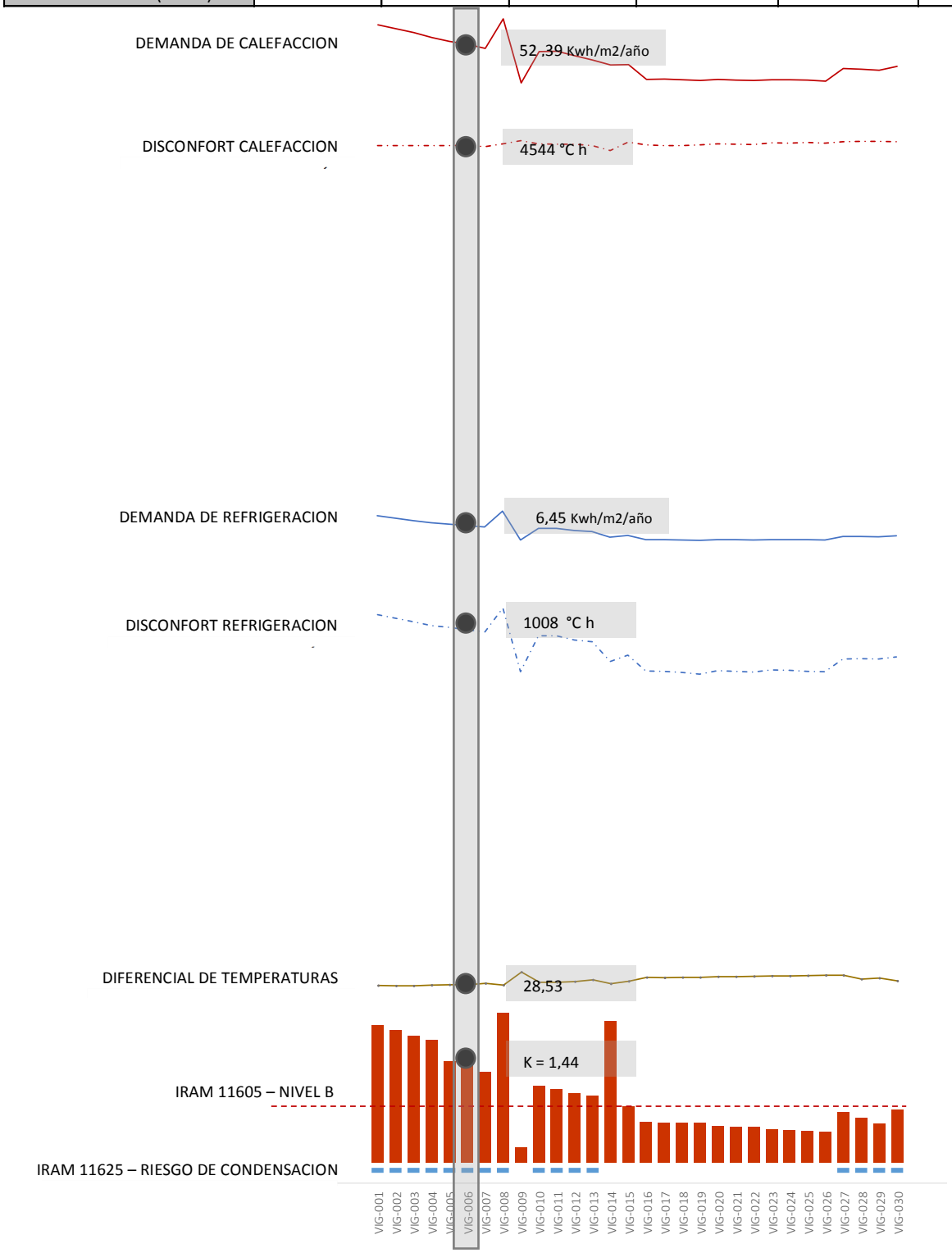



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **225,88** | kWh | 6,45 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.833,49** | kWh | 52,39 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.059,38** | kWh | **58,84** | kWh/m2/año |

| VIG-006 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 107 | N° 110 | N° 109 | N° 109 | N° 030 | N° 108 |



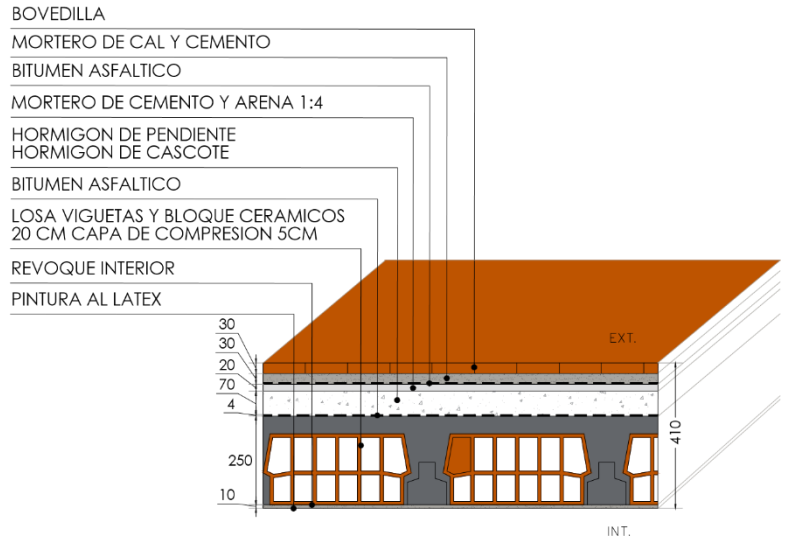

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 1,44 | 100% | 28,53 | 52,39 | 6,45 | 4544 | 1008 |
| INC. FAMILIA | 143,62% | 0% | 97,62% | 112,38% | 154,48% | 99,77% | 137,49% |
| INC. MUNDIAL | 177,78% | 0% | 96,06% | 117,79% | 156,81% | 99,63% | 159,58% |

| VIG-007 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS PRETENSADAS Y BLOQUES CERAMICOS H 20 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLAS.

## INDICE DE TRANSMITANCIA TERMICA "K"

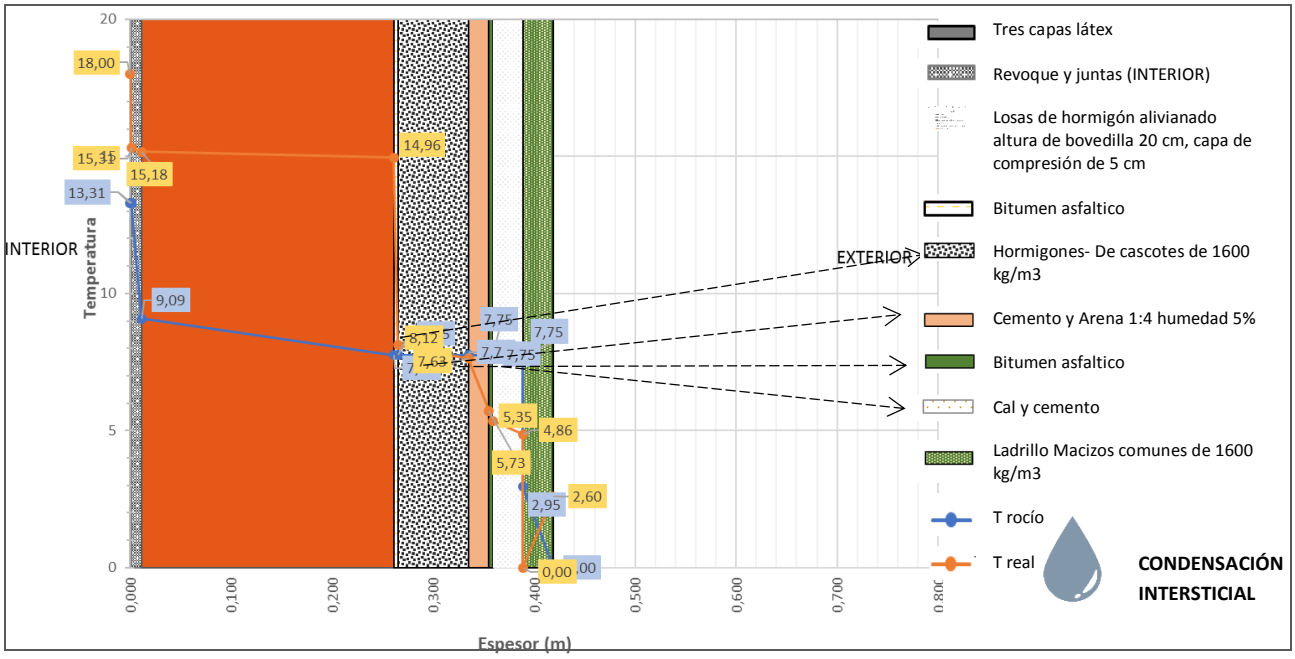
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,34 | 1,34 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



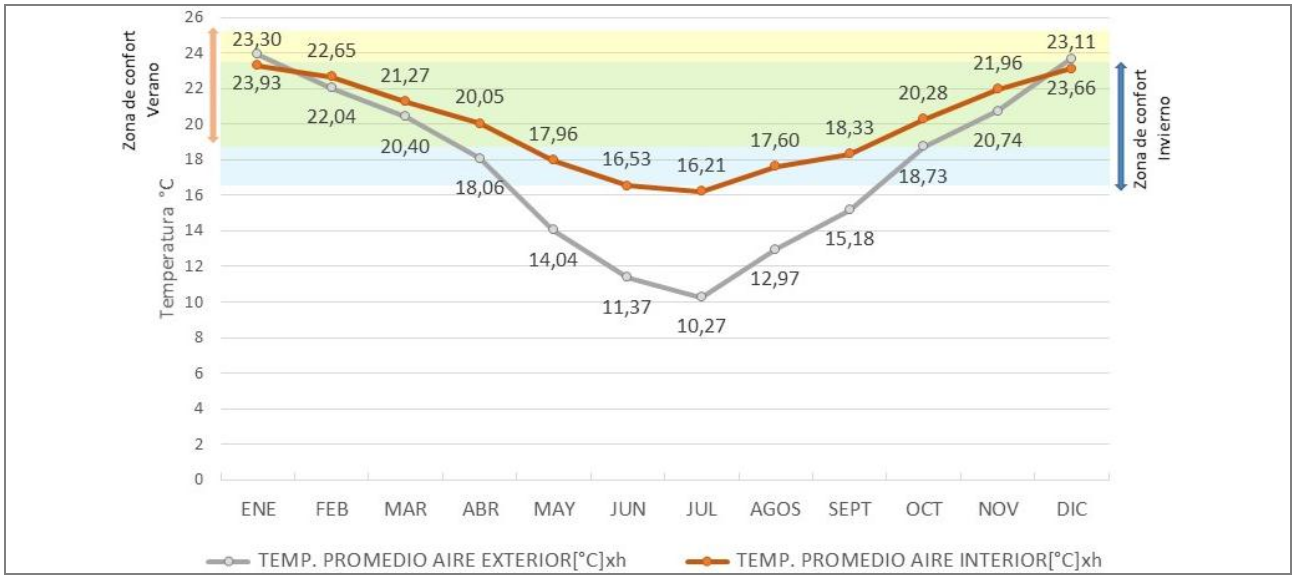

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 88,9 | 80,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,5** | **7,1** |
| | **Amortiguamiento:** | 0,063 | 0,072 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,9** | **4,3** |
| | **Amortiguamiento:** | 0,164 | 0,328 |

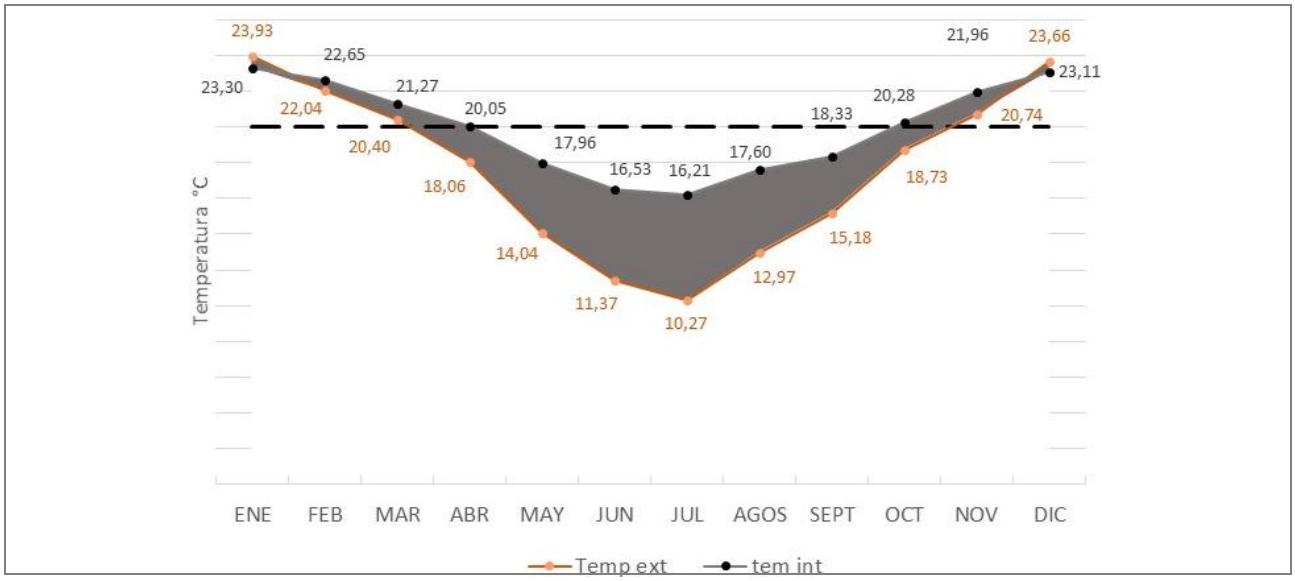
| VIG-007 | CU | LOSAS VIGUETAS |
|---|---|---|

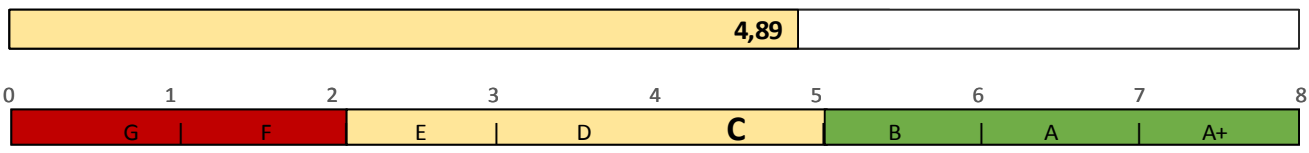
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 24:00 hs | **27,28** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,36** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



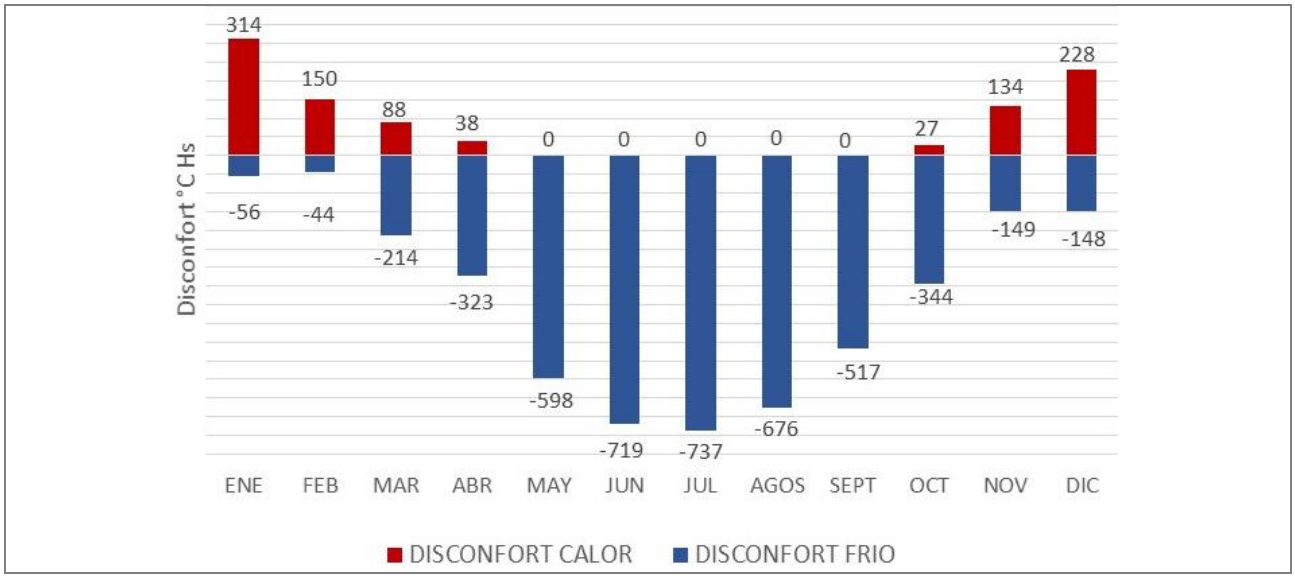




4,89 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| VIG-007 | CU | LOSAS VIGUETAS |
|---|---|---|

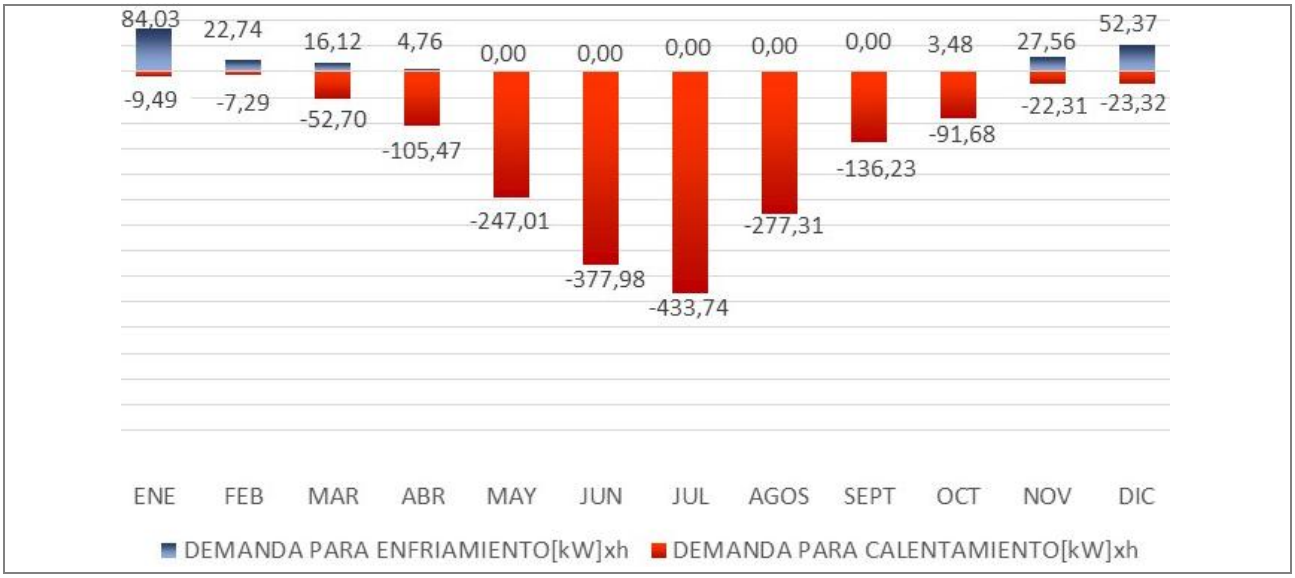
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **979** | °C Hs | 11% |
| HORAS DE DISCONFORT POR FRIO | **4.525** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.504** | **°C Hs** | **64%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

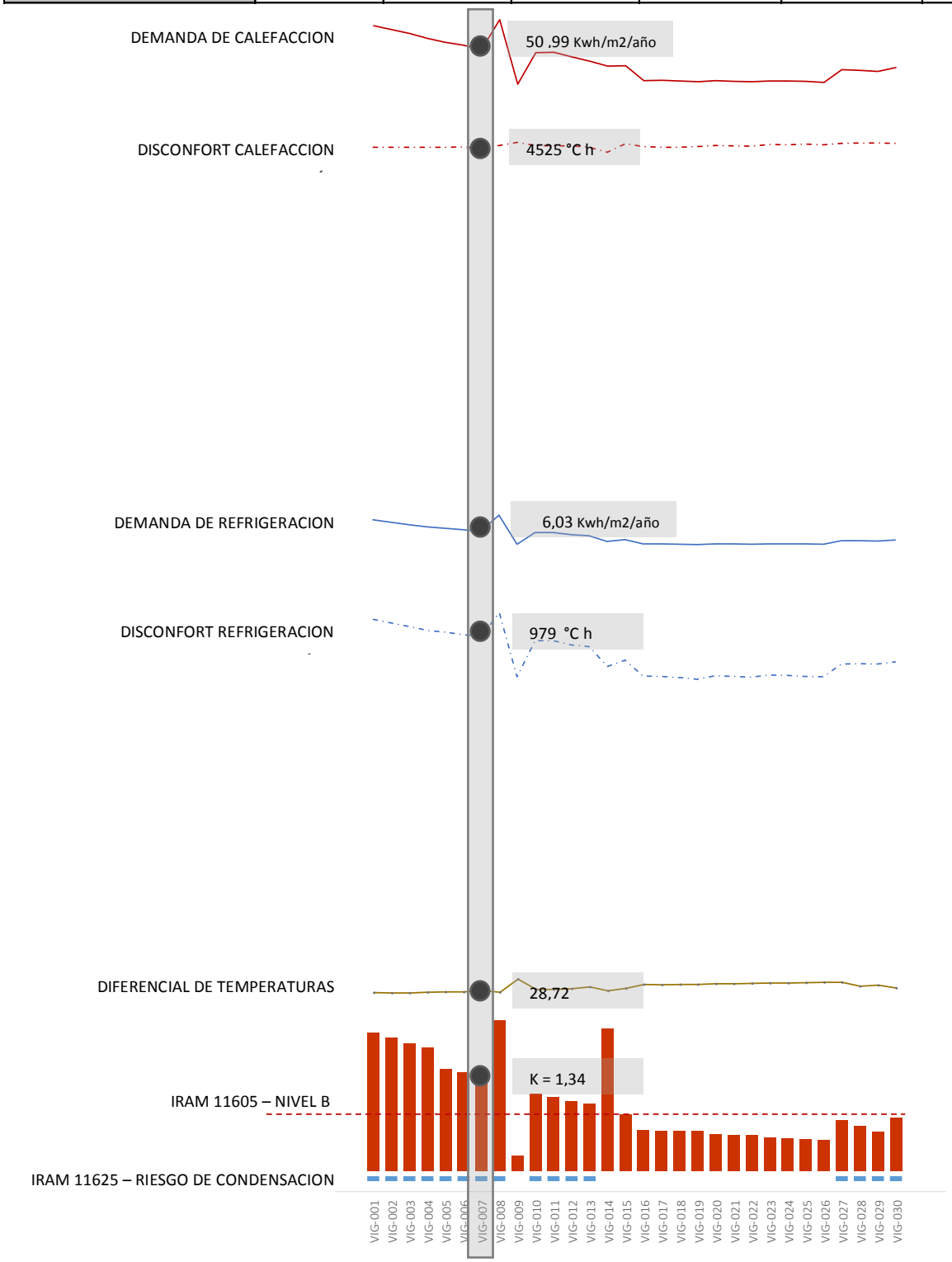



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **211,07** | kWh | 6,03 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.784,52** | kWh | 50,99 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.995,58** | kWh | **57,02** | kWh/m2/año |

| VIG-007 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 106 | N° 106 | N° 108 | N° 108 | N° 013 | N° 107 |



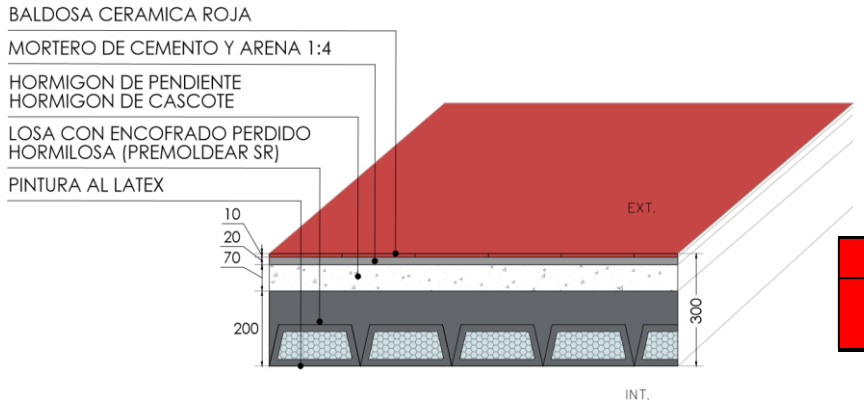

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 1,34 | 100% | 28,72 | 50,99 | 6,03 | 4525 | 979 |
| INC. FAMILIA | 133,64% | 0% | 98,27% | 109,38% | 144,42% | 99,36% | 133,54% |
| INC. MUNDIAL | 165,43% | 0% | 96,70% | 114,64% | 146,60% | 99,21% | 154,99% |

| VIG-008 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA CON ENCOFRADO PERDIDO HORMILOSA (PREMOLDEAR SRL)

## INDICE DE TRANSMITANCIA TERMICA "K"

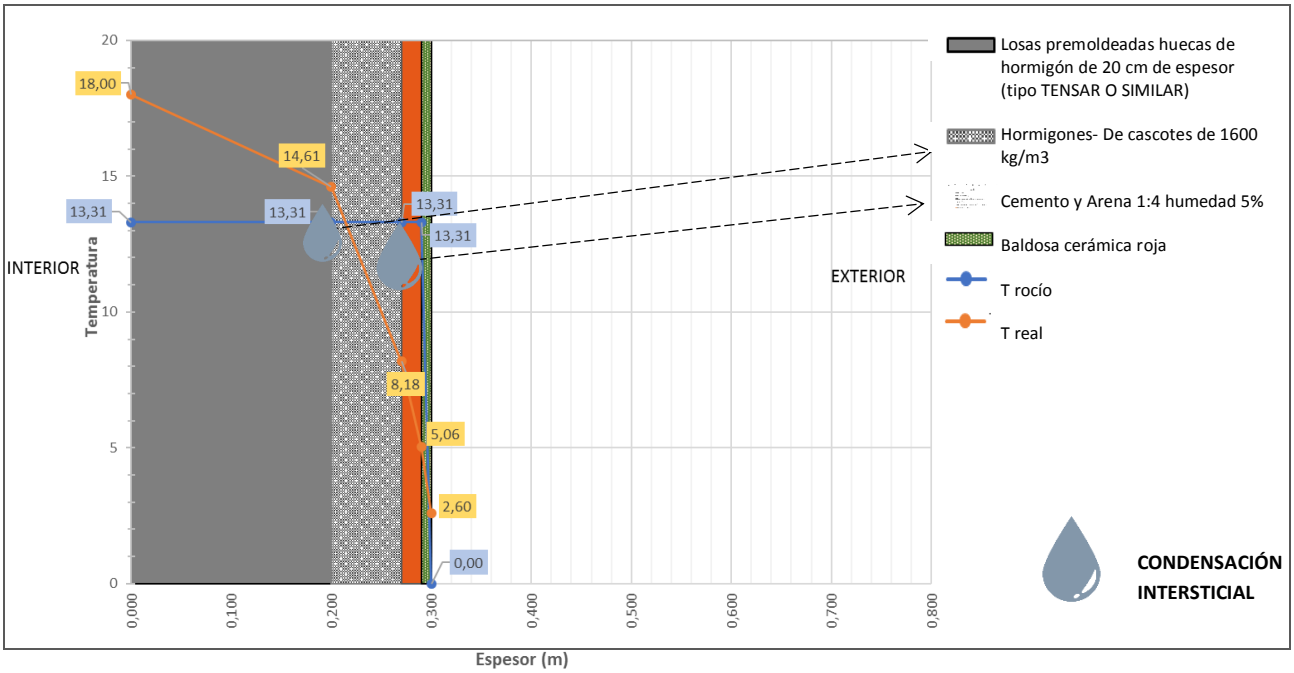
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,91 | 2,20 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 141,3 | 133,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,2** | **5,0** |
| | **Amortiguamiento:** | 0,148 | 0,160 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,7** | **2,8** |
| | **Amortiguamiento:** | 0,223 | 0,484 |

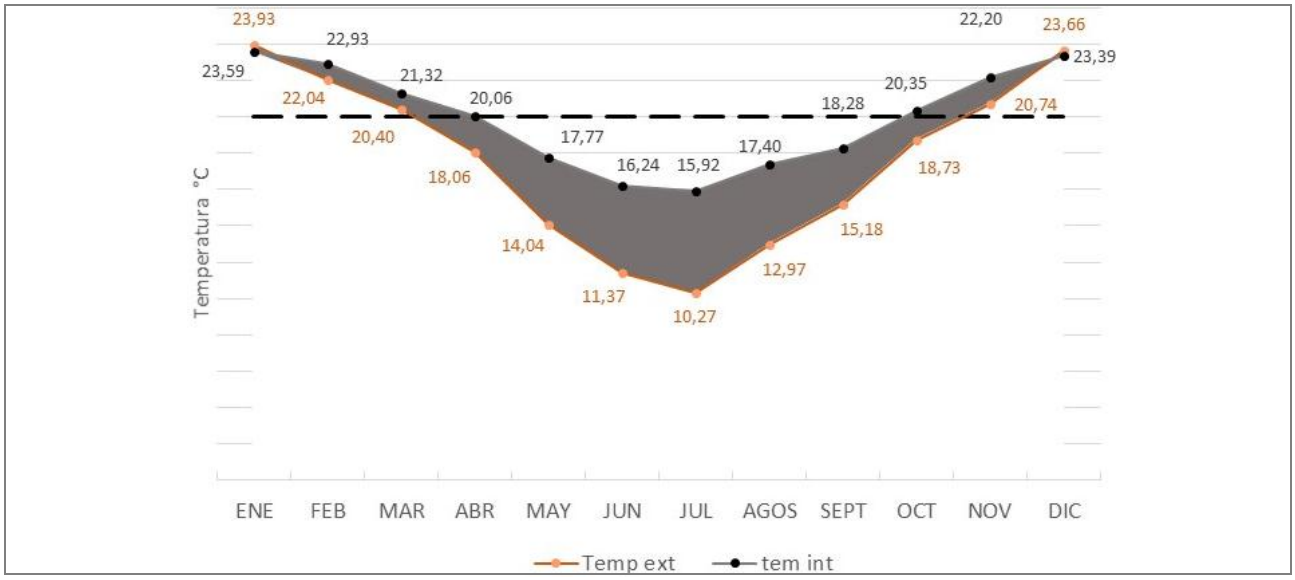
| VIG-008 | CU | LOSAS VIGUETAS |
|---|---|---|

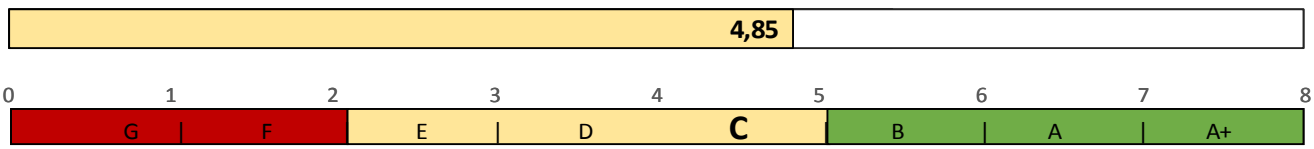
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 04/01 23:00 hs | **28,50** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 23/07 13:00 hs | **11,47** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



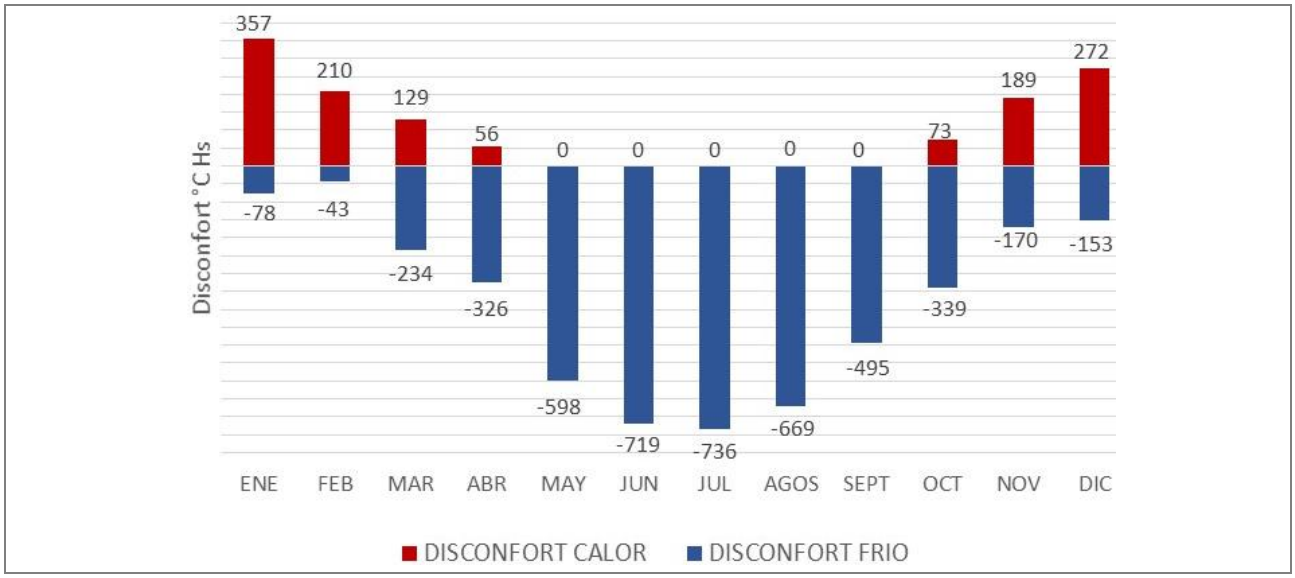




4,85 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| VIG-008 | CU | LOSAS VIGUETAS |
|---|---|---|

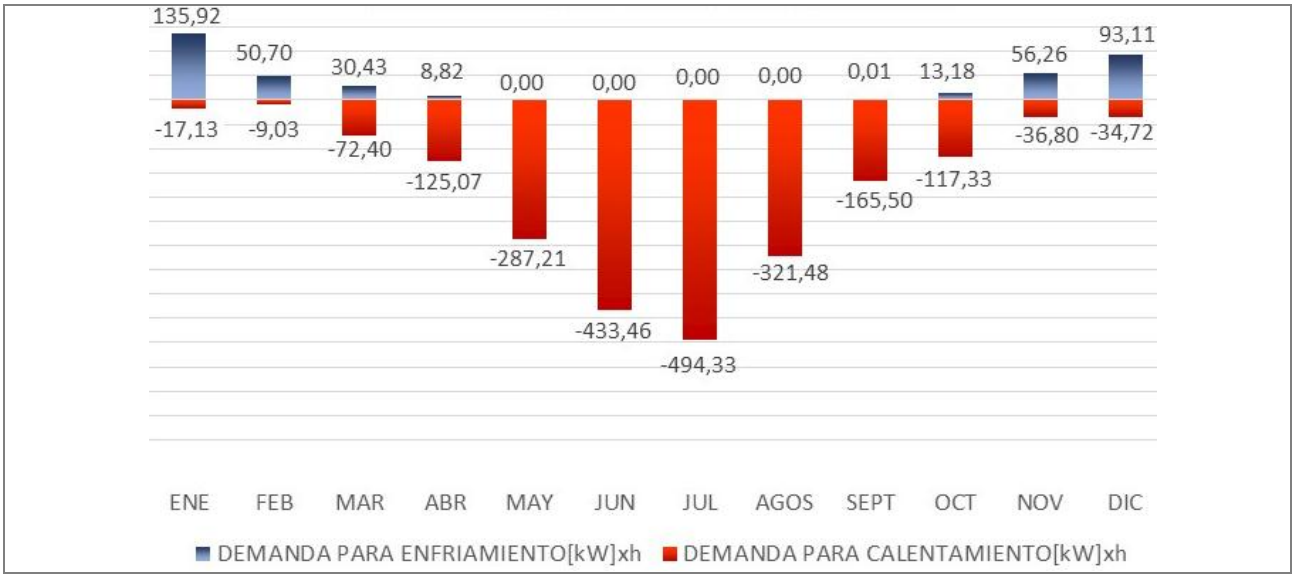
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.285** | °C Hs | 15% |
| HORAS DE DISCONFORT POR FRIO | **4.561** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.540** | **°C Hs** | **67%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

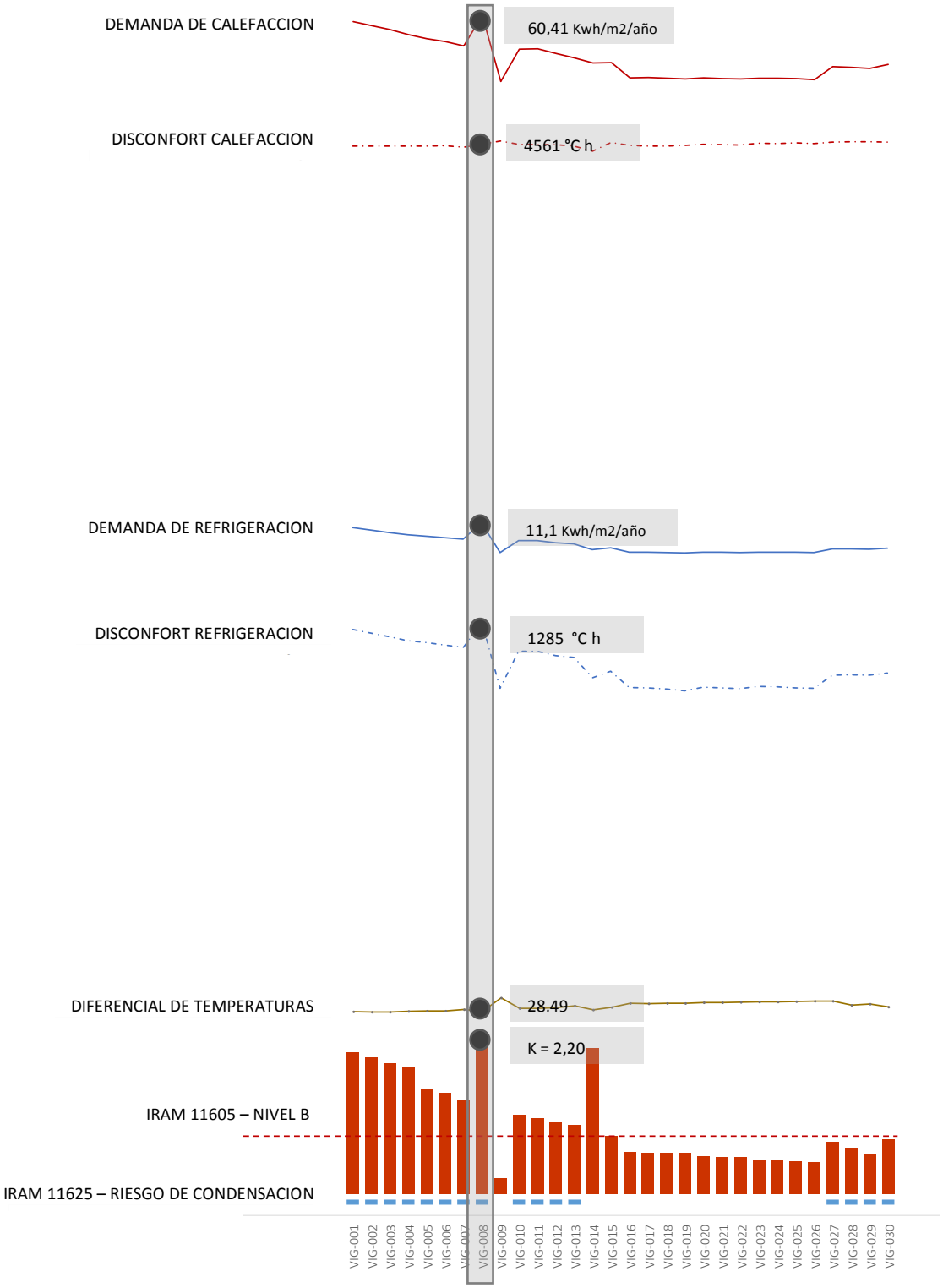



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **388,41** | kWh | 11,10 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **2.144,48** | kWh | 60,41 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.502,89** | kWh | **71,51** | kWh/m2/año |

| VIG-008 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 114 | N° 111 | N° 115 | N° 115 | N° 049 | N° 114 |

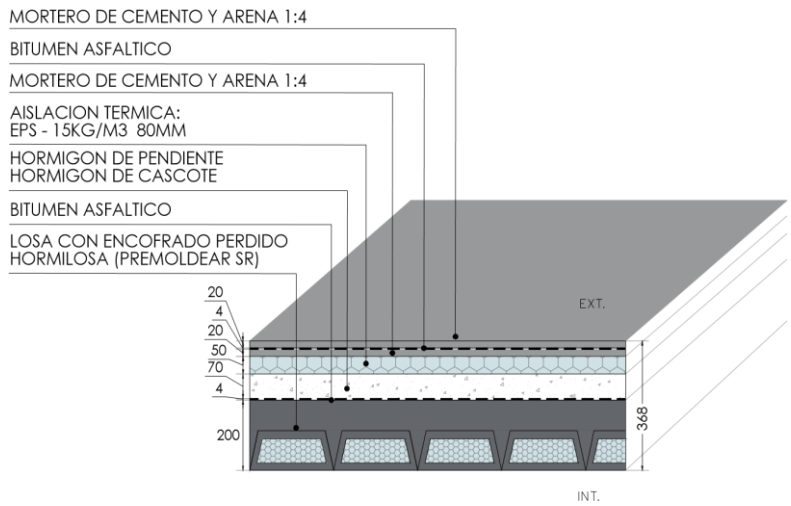



| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 2,2 | 100% | 28,49 | 60,41 | 11,1 | 4561 | 1285 |
| INC. FAMILIA | 219,41% | 0% | 97,48% | 129,58% | 265,85% | 100,15% | 175,28% |
| INC. MUNDIAL | 271,60% | 0% | 95,93% | 135,82% | 269,86% | 100,00% | 203,43% |

| VIG-009 | CU | LOSAS VIGUETAS |
|---|---|---|
| CUBIERTA SOBRE SISTEMA HORMILOSA | | |

## INDICE DE TRANSMITANCIA TERMICA "K"

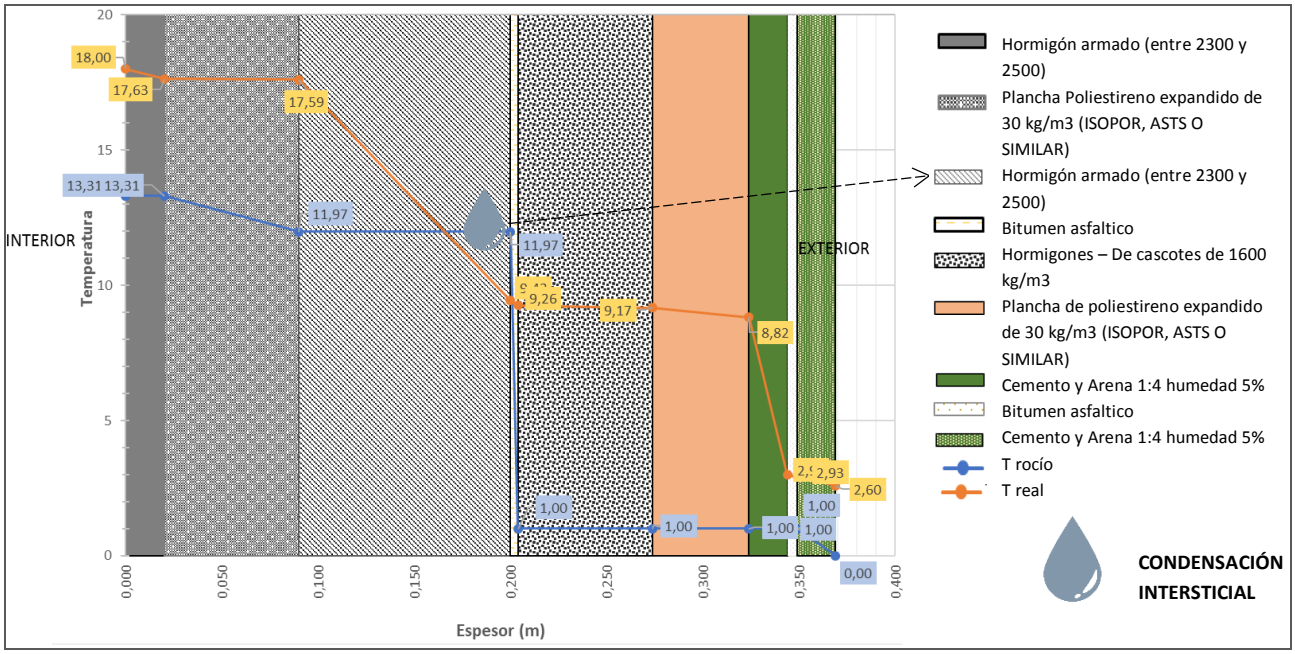
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,24 | 0,24 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | 62,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | **43,4** |
| | **Amortiguamiento:** | | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **33,6** | **28,0** |
| | **Amortiguamiento:** | 0,000 | 0,001 |

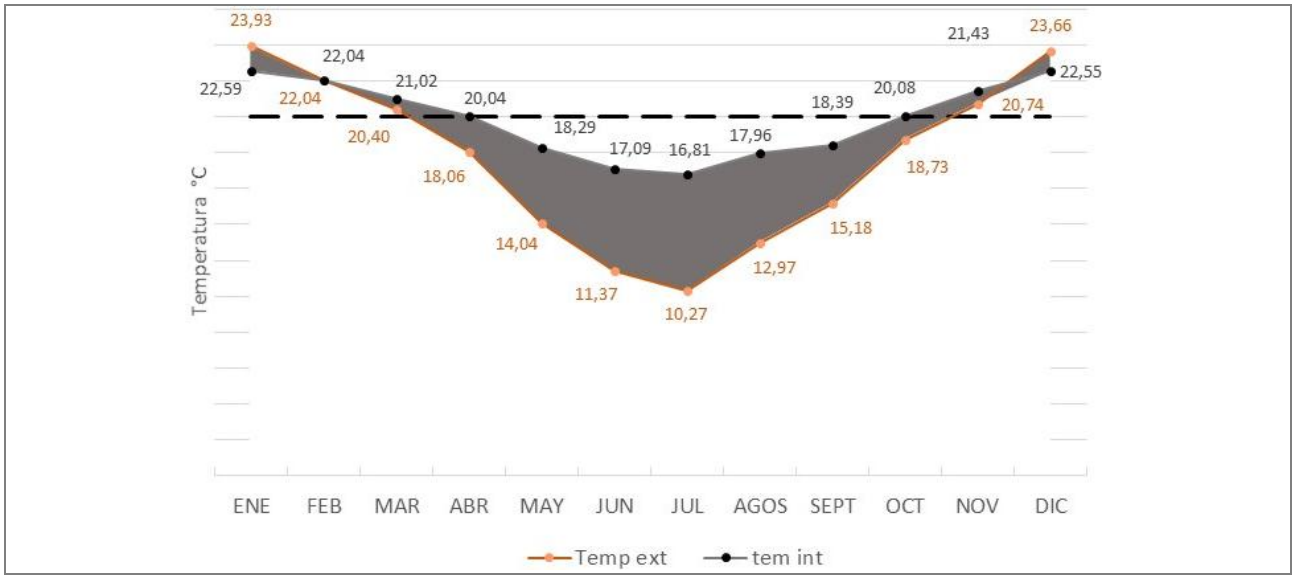
| VIG-009 | CU | LOSAS VIGUETAS |
|---|---|---|

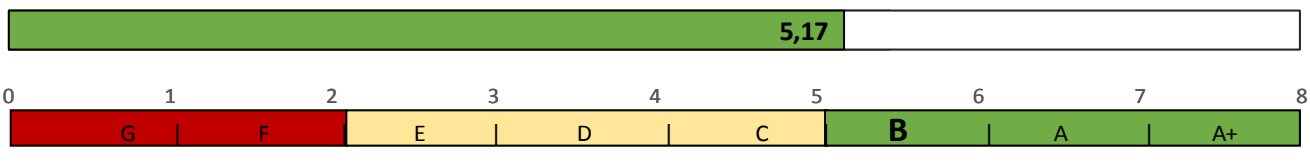
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,80** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,42** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



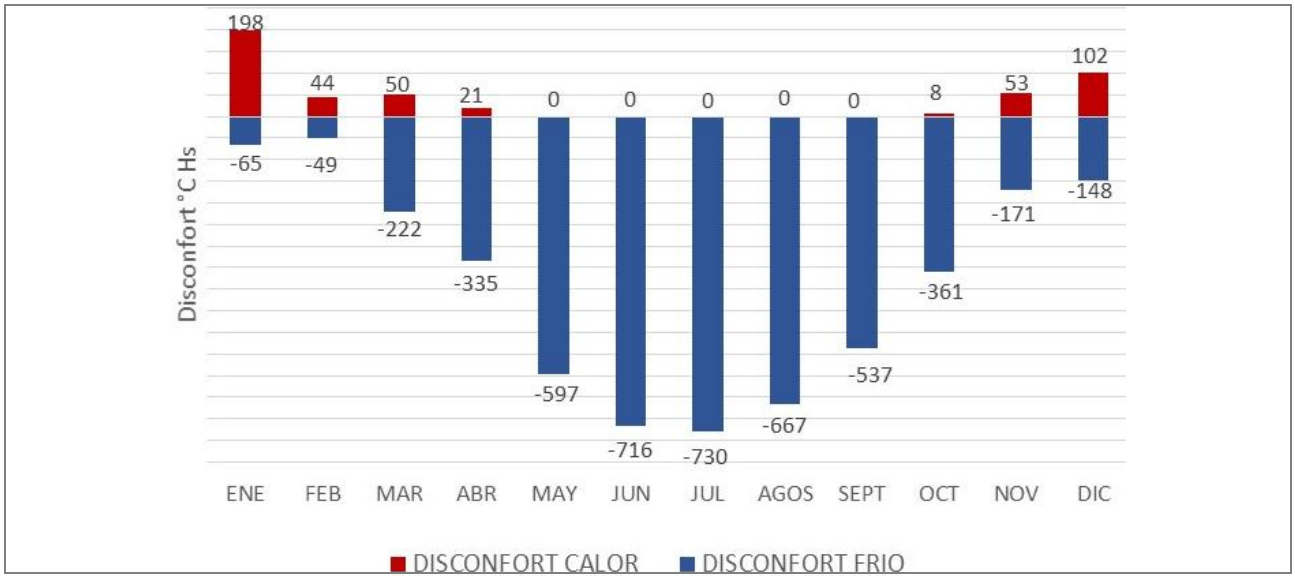




5,17 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| VIG-009 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

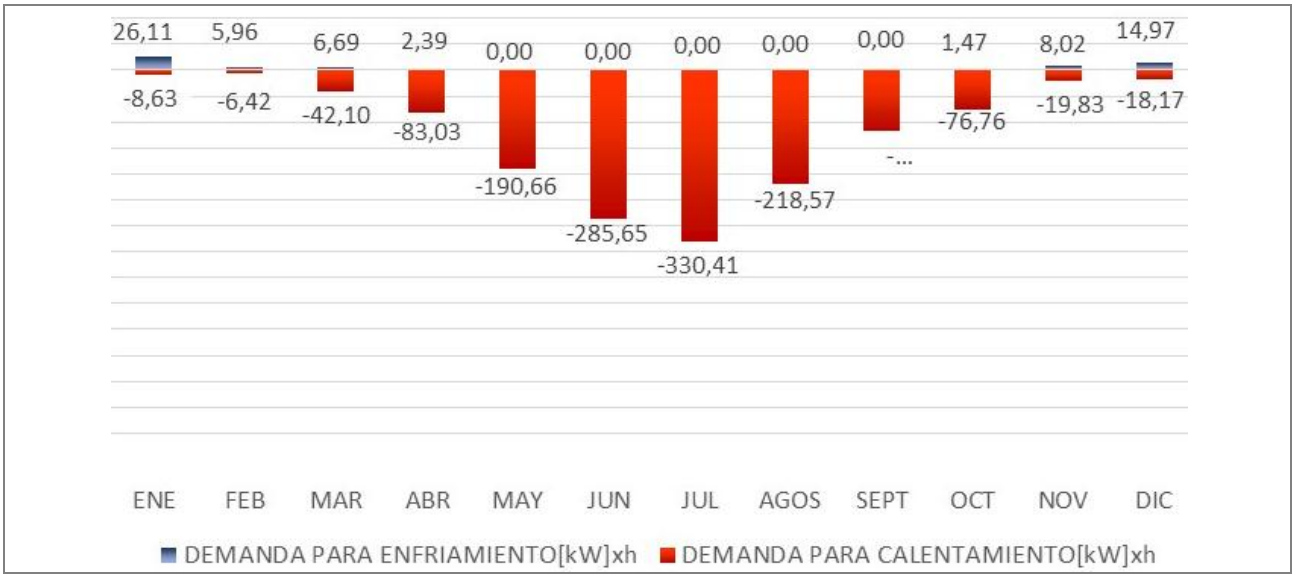
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **474** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRIO | **4.597** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.071** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

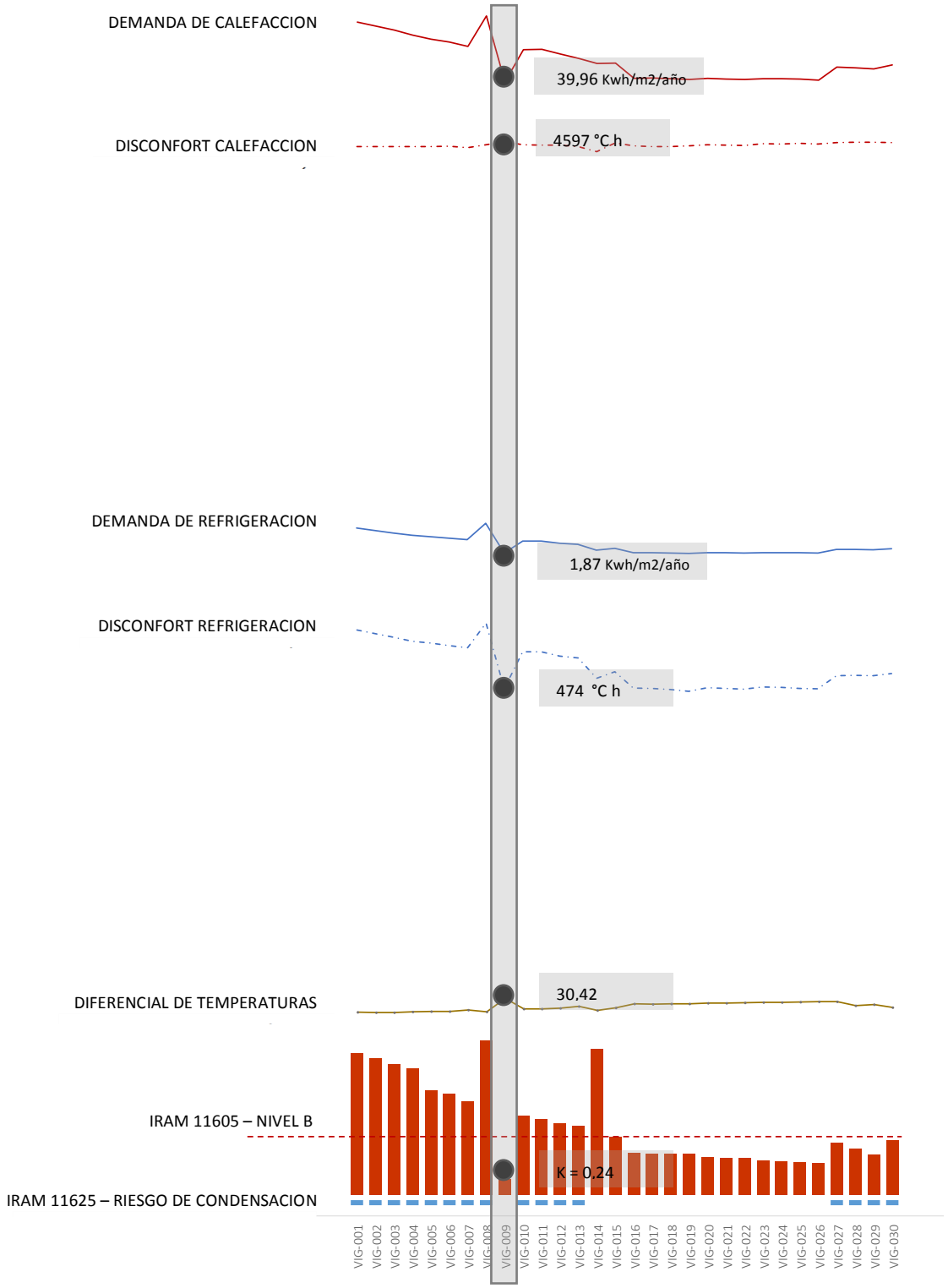



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **65,61** | kWh | 1,87 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.398,49** | kWh | 39,96 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.464,10** | kWh | **41,83** | kWh/m2/año |

| VIG-009 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 003 | N° 006 | N° 017 | N° 028 | N° 091 | N° 028 |



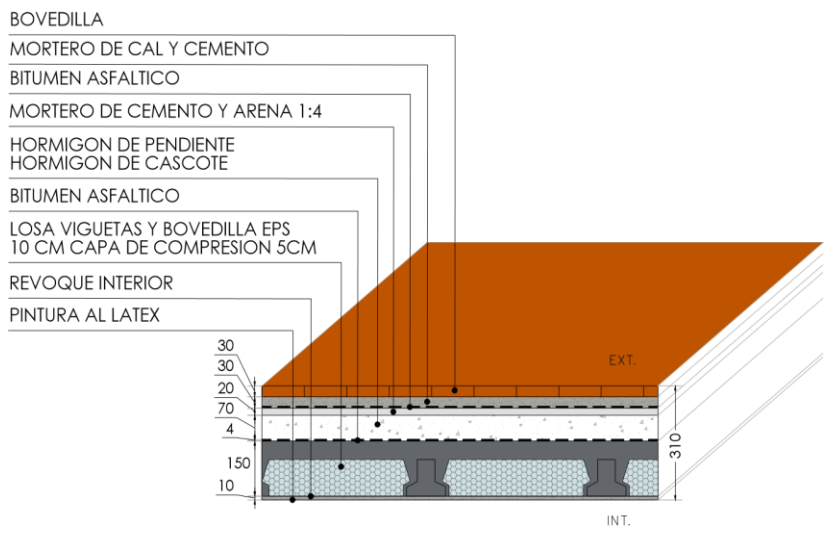

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,24 | 100% | 30,42 | 39,96 | 1,87 | 4597 | 474 |
| INC. FAMILIA | 23,94% | 0% | 104,09% | 85,72% | 44,79% | 100,94% | 64,65% |
| INC. MUNDIAL | 29,63% | 0% | 102,43% | 89,84% | 45,46% | 100,79% | 75,04% |

| VIG-010 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS PRETENSADAS Y LADRILLOS EPS H 10 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLAS

## INDICE DE TRANSMITANCIA TERMICA "K"

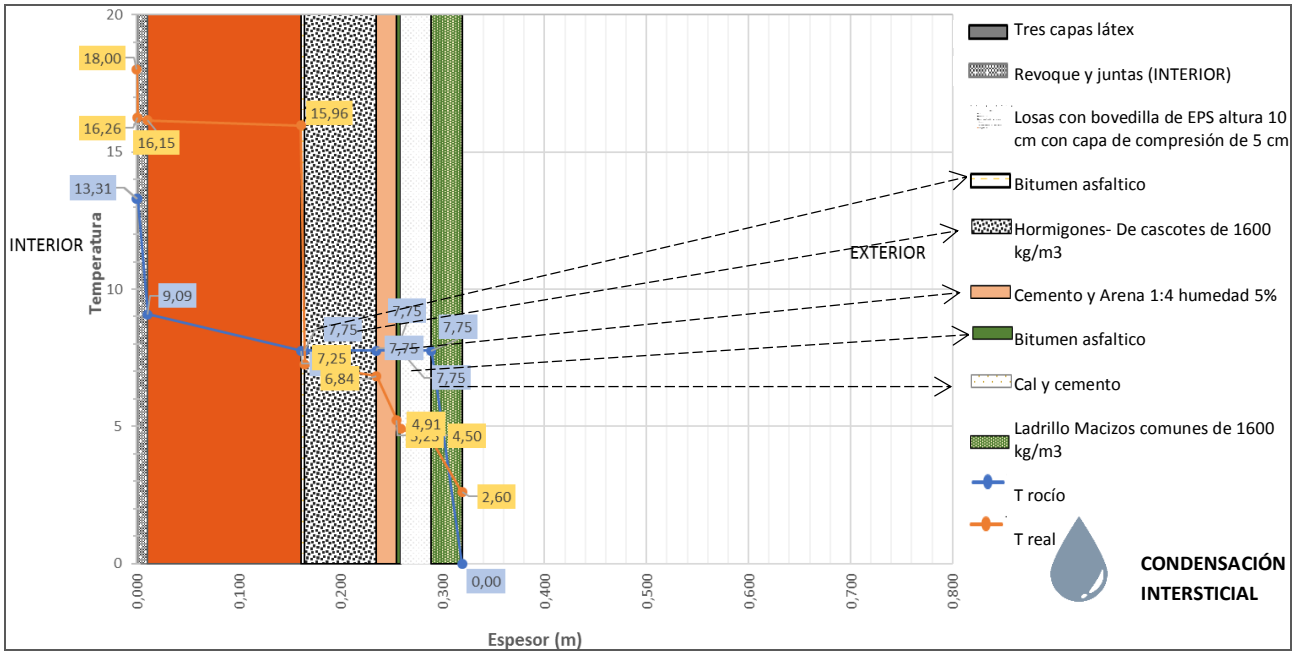
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,05 | 1,13 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 68,6 | 62,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,5** | **8,1** |
| | **Amortiguamiento:** | 0,043 | 0,050 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,1** | **4,4** |
| | **Amortiguamiento:** | 0,121 | 0,317 |

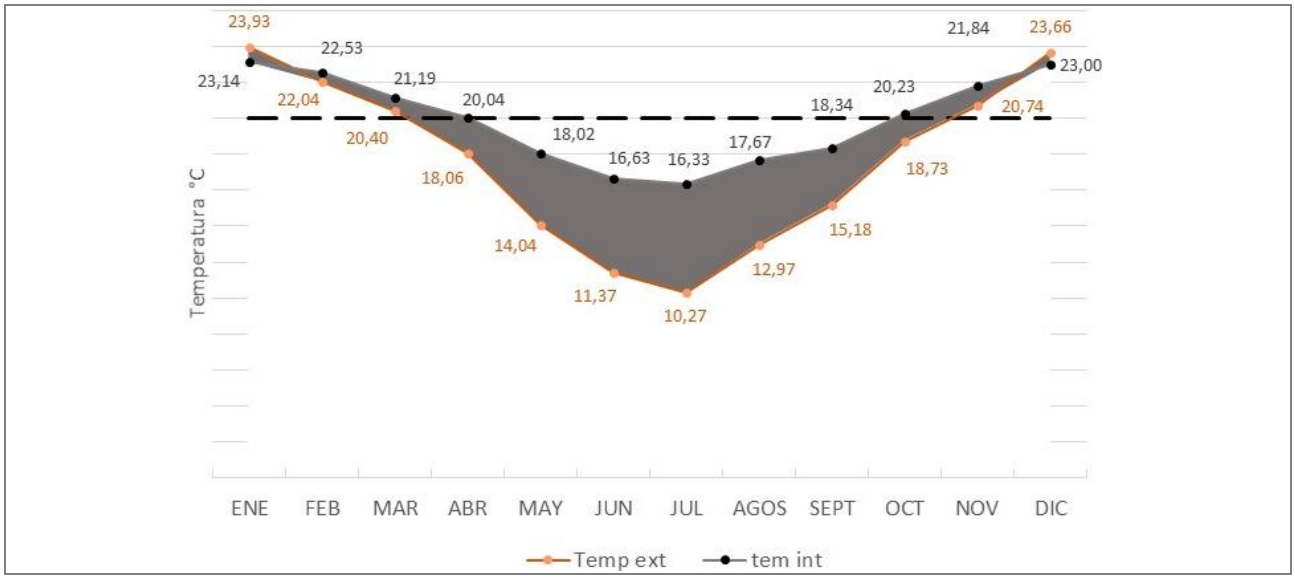
| VIG-010 | CU | LOSAS VIGUETAS |
|---|---|---|

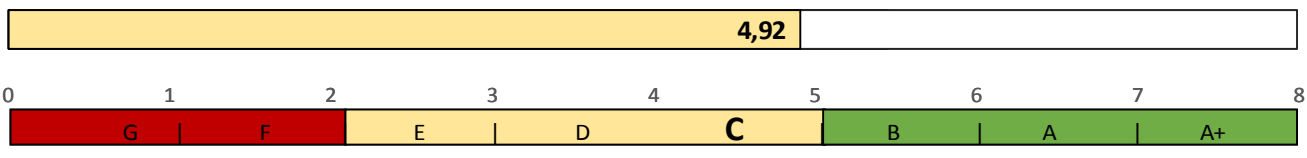
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **27,16** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,45** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



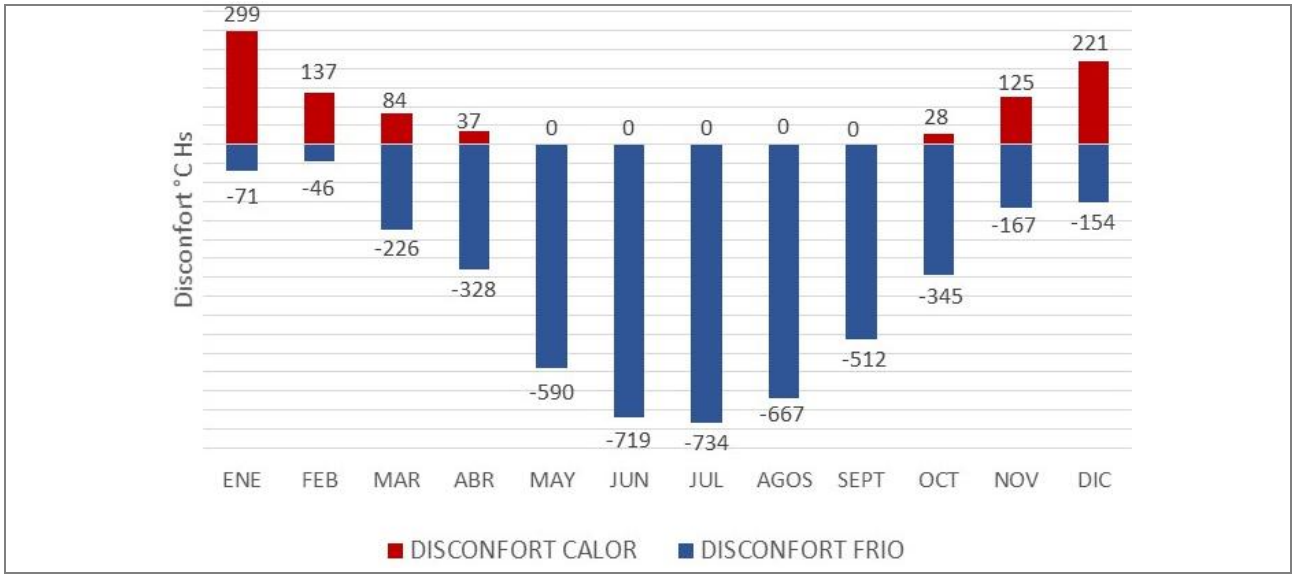




4,92 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| VIG-010 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

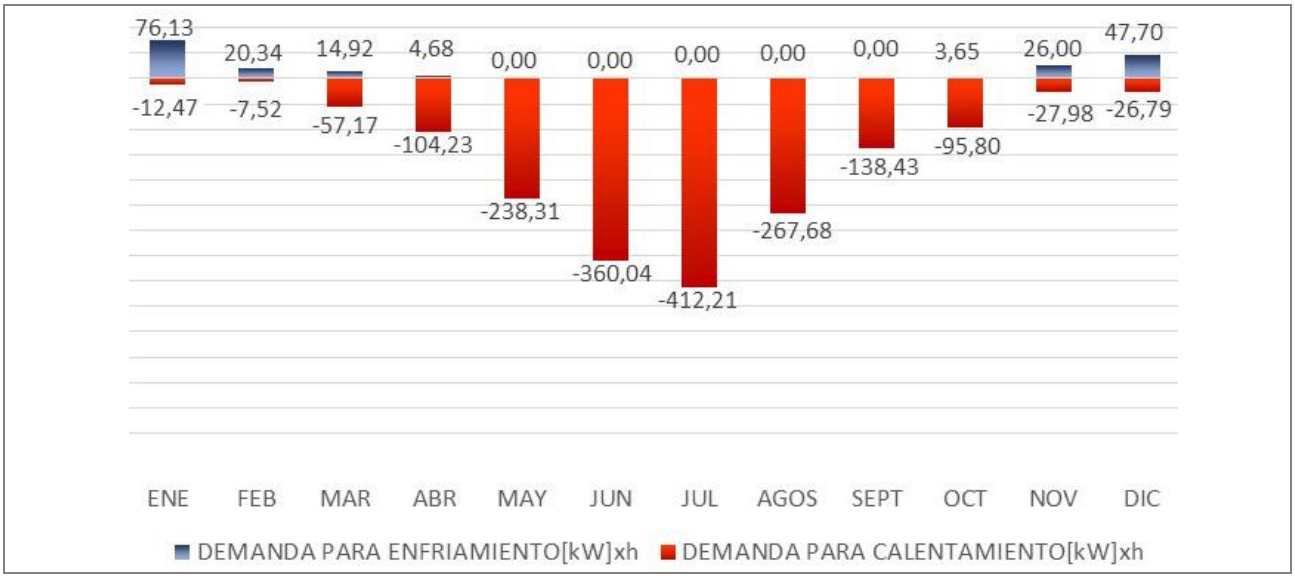
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **930** | °C Hs | 11% |
| HORAS DE DISCONFORT POR FRIO | **4.559** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.489** | **°C Hs** | **63%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

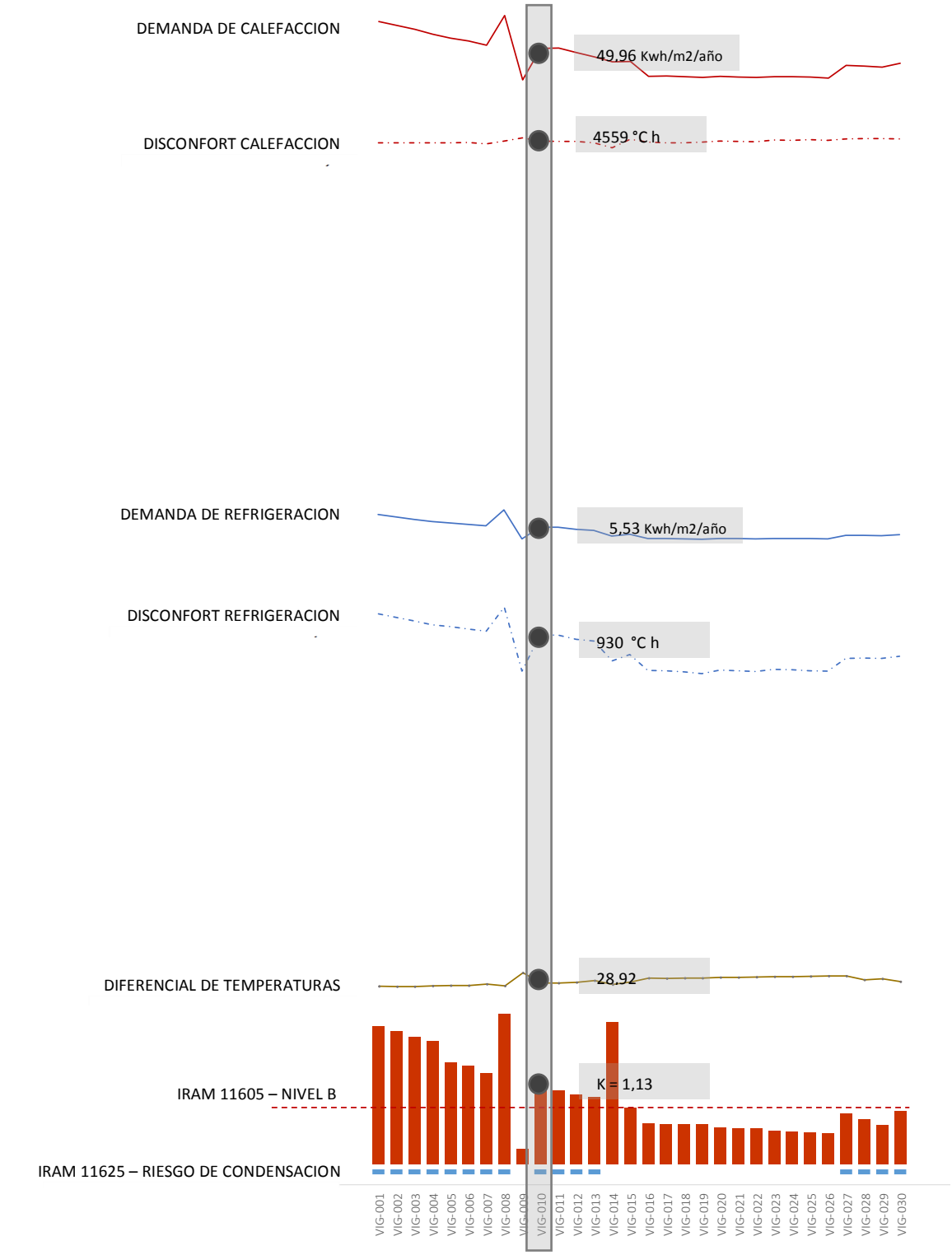



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **193,43** | kWh | 5,53 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.748,62** | kWh | 49,96 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.942,05** | kWh | **55,49** | kWh/m2/año |

| VIG-010 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 105 | N° 103 | N° 106 | N° 106 | N° 047 | N° 105 |



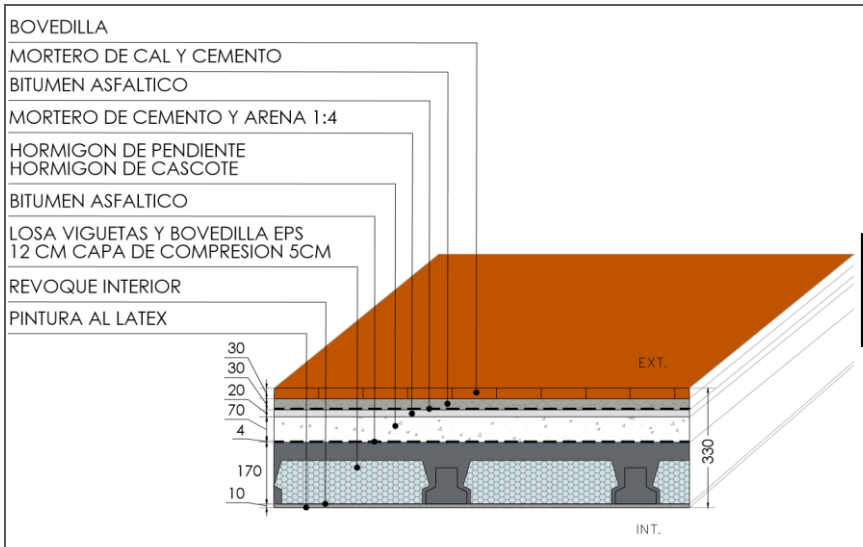

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 1,13 | 100% | 28,92 | 49,96 | 5,53 | 4559 | 930 |
| INC. FAMILIA | 112,70% | 0% | 98,95% | 107,17% | 132,44% | 100,10% | 126,85% |
| INC. MUNDIAL | 139,51% | 0% | 97,38% | 112,32% | 134,44% | 99,96% | 147,23% |

| VIG-011 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS PRETENSADAS Y LADRILLOS EPS H 12 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLAS

## INDICE DE TRANSMITANCIA TERMICA "K"

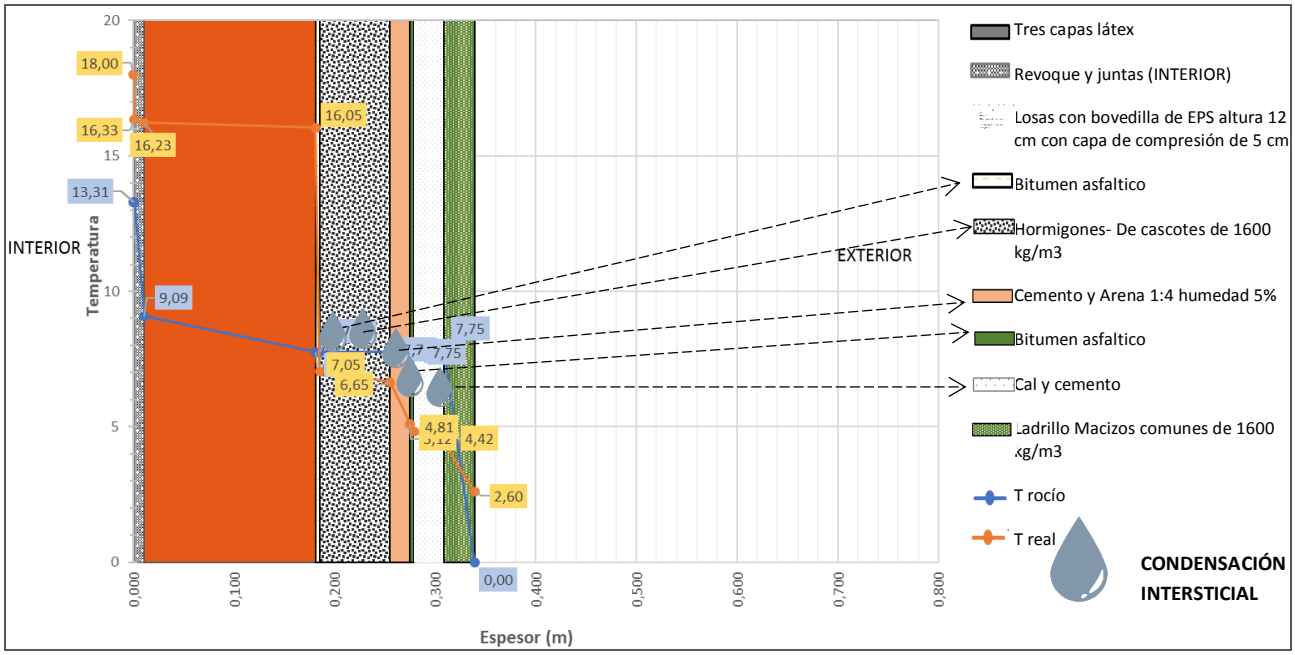
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,01 | 1,08 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 65,1 | 58,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,7** | **8,3** |
| | **Amortiguamiento:** | 0,039 | 0,046 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,3** | **4,4** |
| | **Amortiguamiento:** | 0,115 | 0,315 |

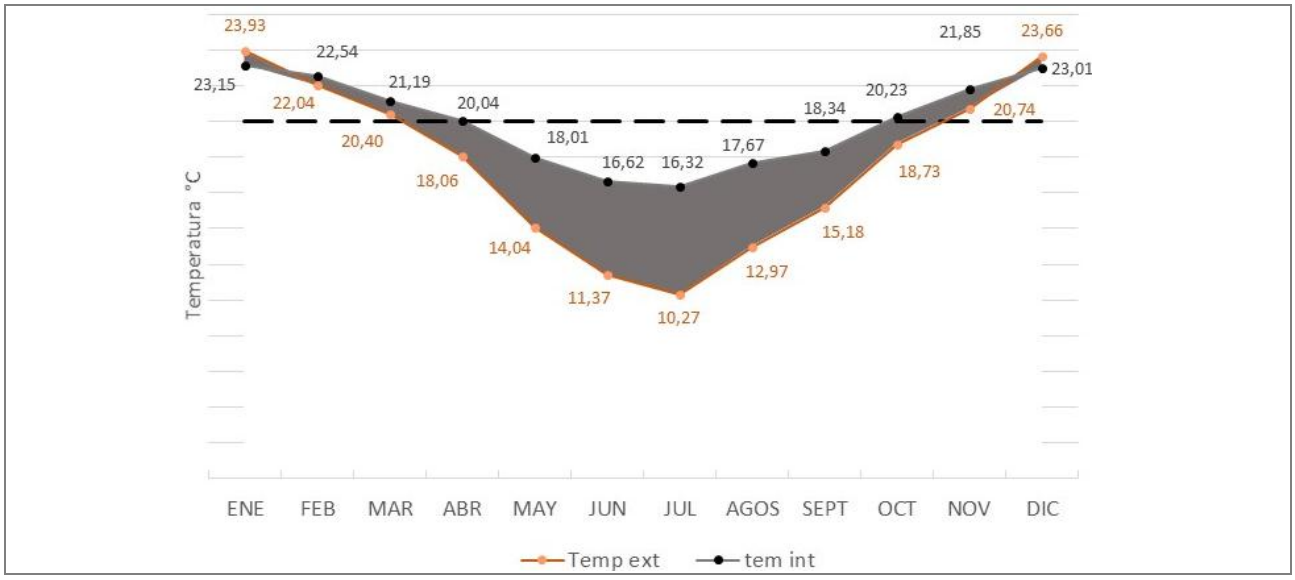
| VIG-011 | CU | LOSAS VIGUETAS |
|---|---|---|

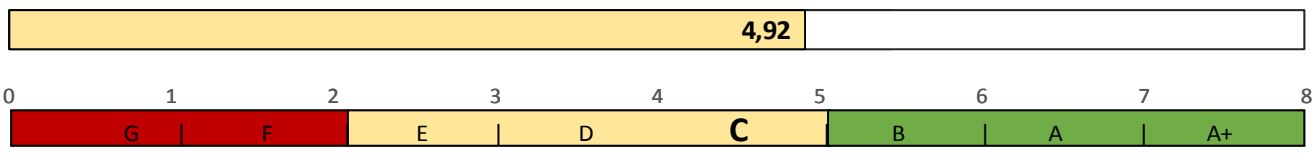
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **27,16** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,45** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



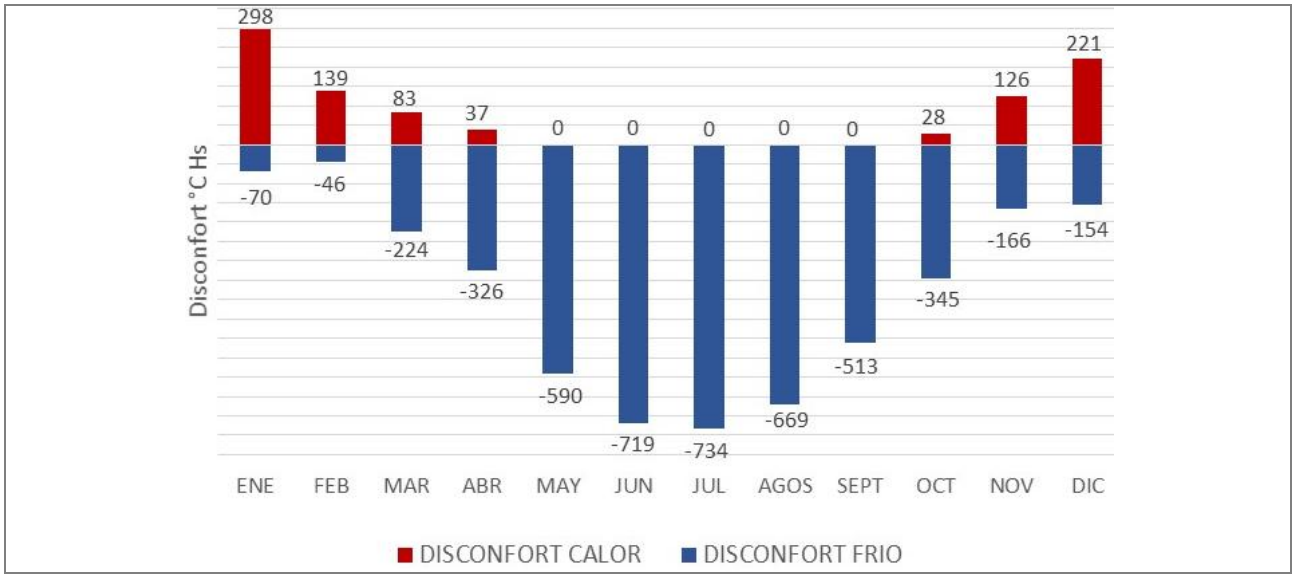




4,92 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| VIG-011 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

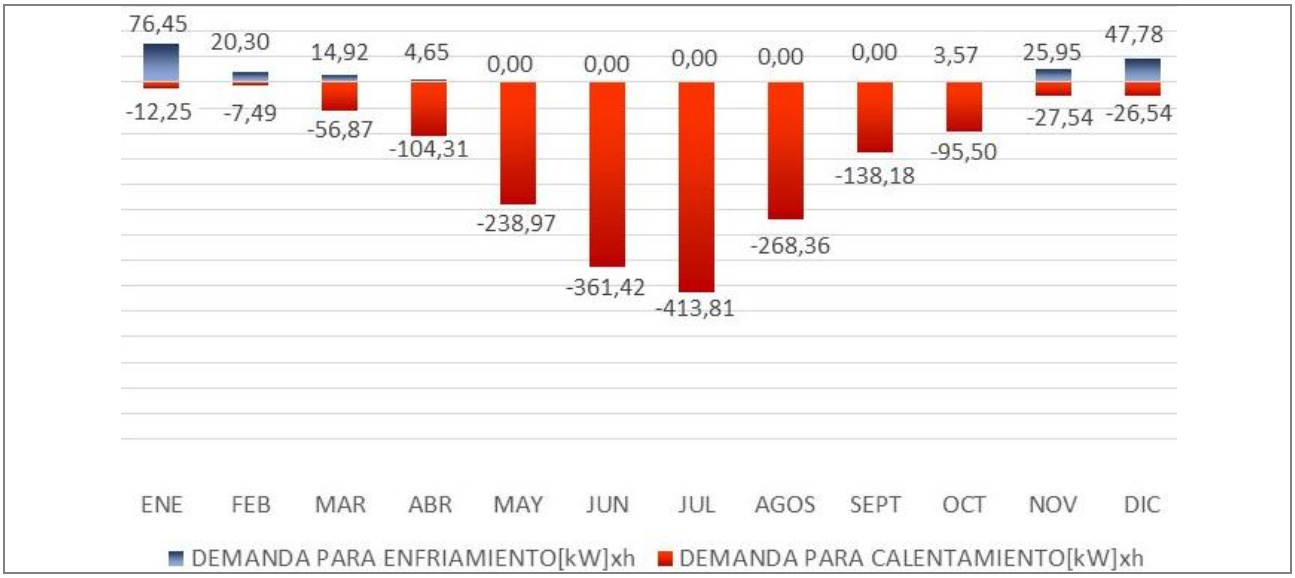
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **932** | °C Hs | 11% |
| HORAS DE DISCONFORT POR FRIO | **4.555** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.487** | **°C Hs** | **63%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

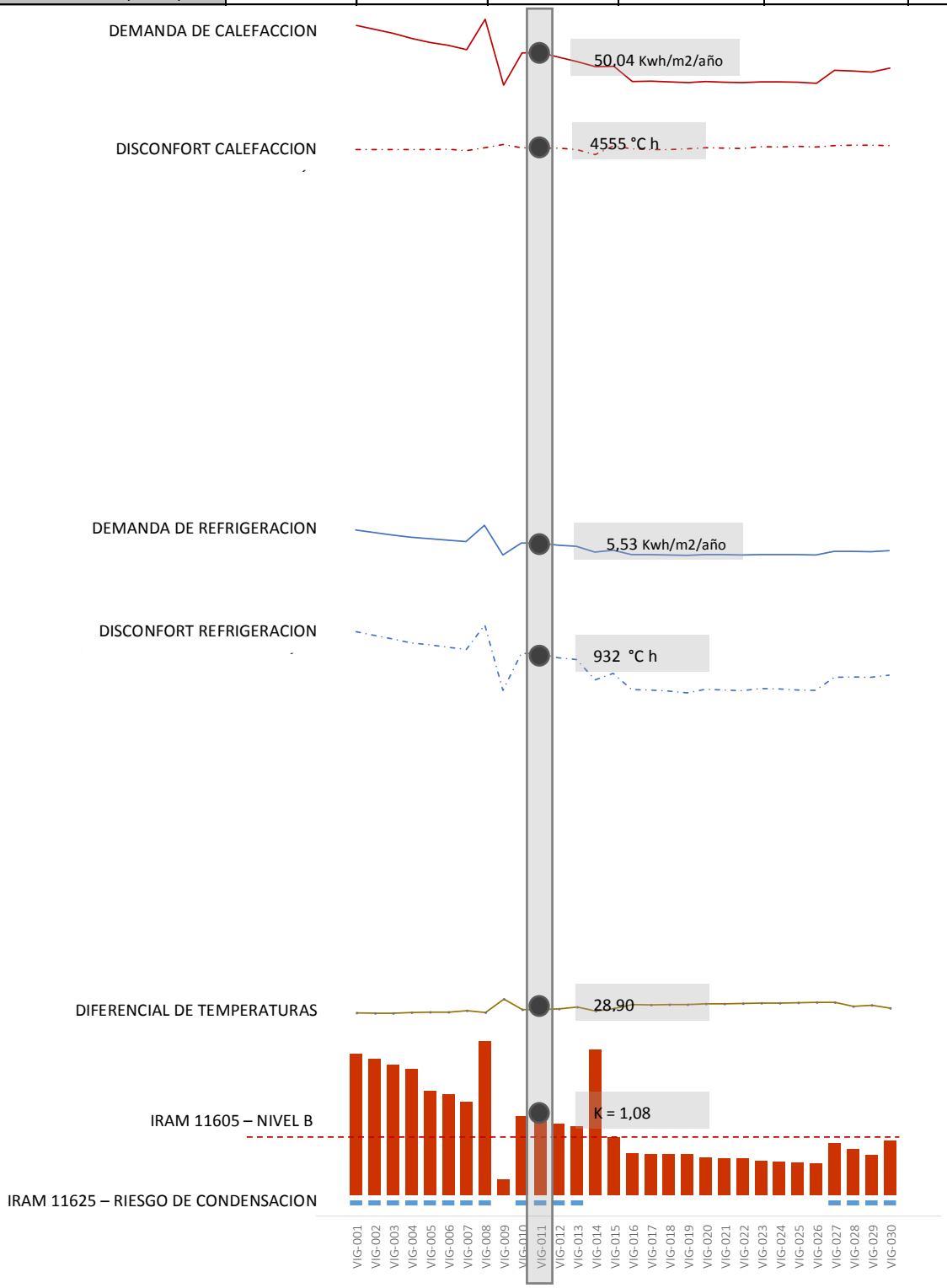



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **193,61** | kWh | 5,53 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.751,23** | kWh | 50,04 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.944,84** | kWh | **55,57** | kWh/m2/año |

| VIG-011 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 104 | N° 105 | N° 107 | N° 107 | N° 042 | N° 106 |



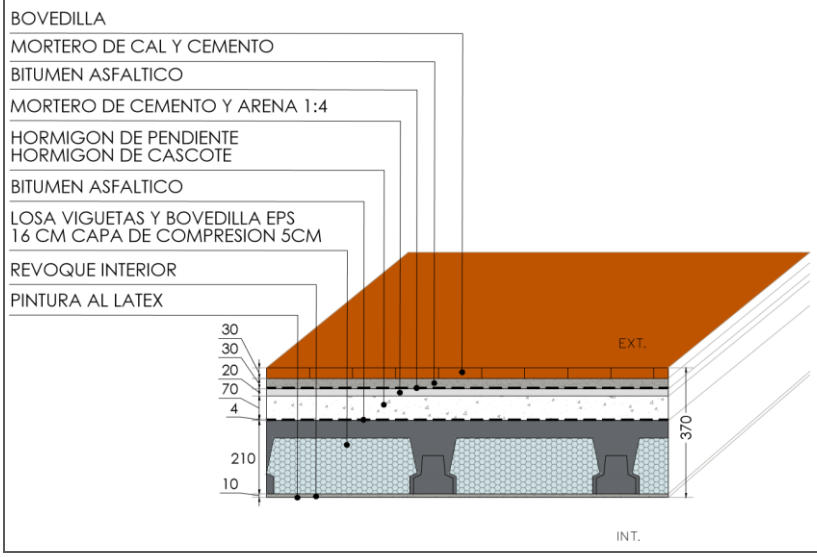

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 1,08 | 100% | 28,90 | 50,04 | 5,53 | 4555 | 932 |
| INC. FAMILIA | 107,71% | 0% | 98,89% | 107,34% | 132,44% | 100,01% | 127,13% |
| INC. MUNDIAL | 133,33% | 0% | 97,31% | 112,50% | 134,44% | 99,87% | 147,55% |

| VIG-012 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS PRETENSADAS Y LADRILLOS EPS H 16 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLAS.

## INDICE DE TRANSMITANCIA TERMICA "K"

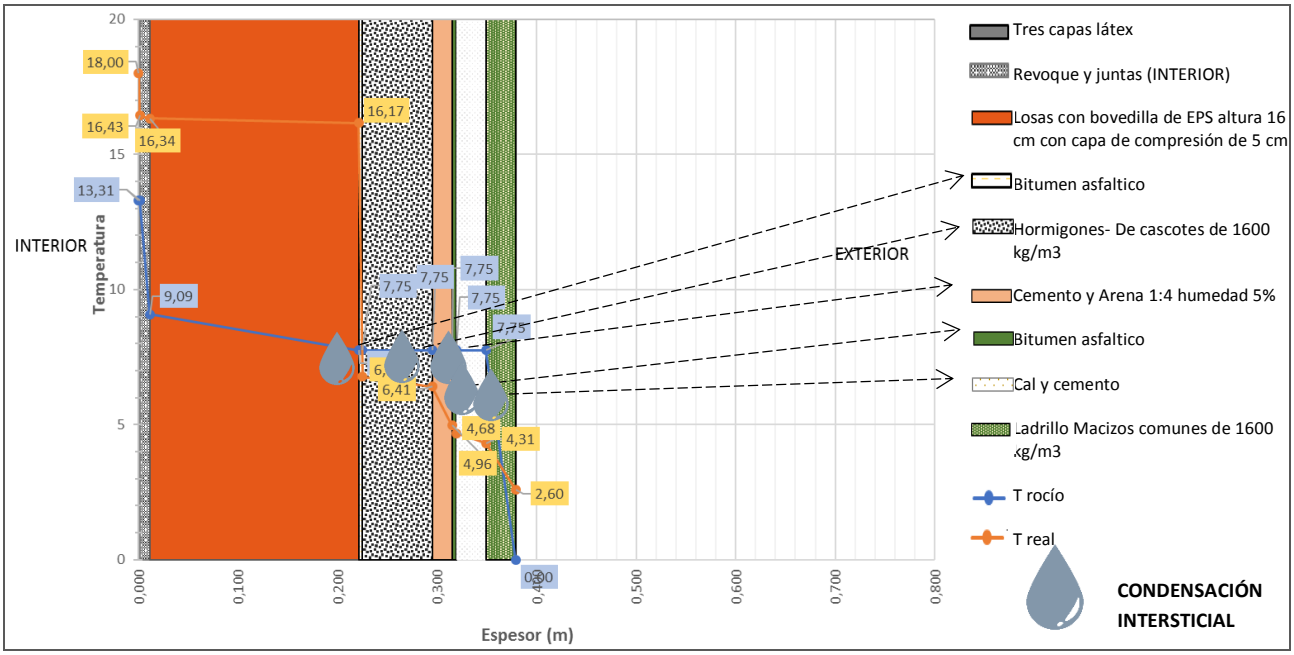
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,95 | 1,02 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



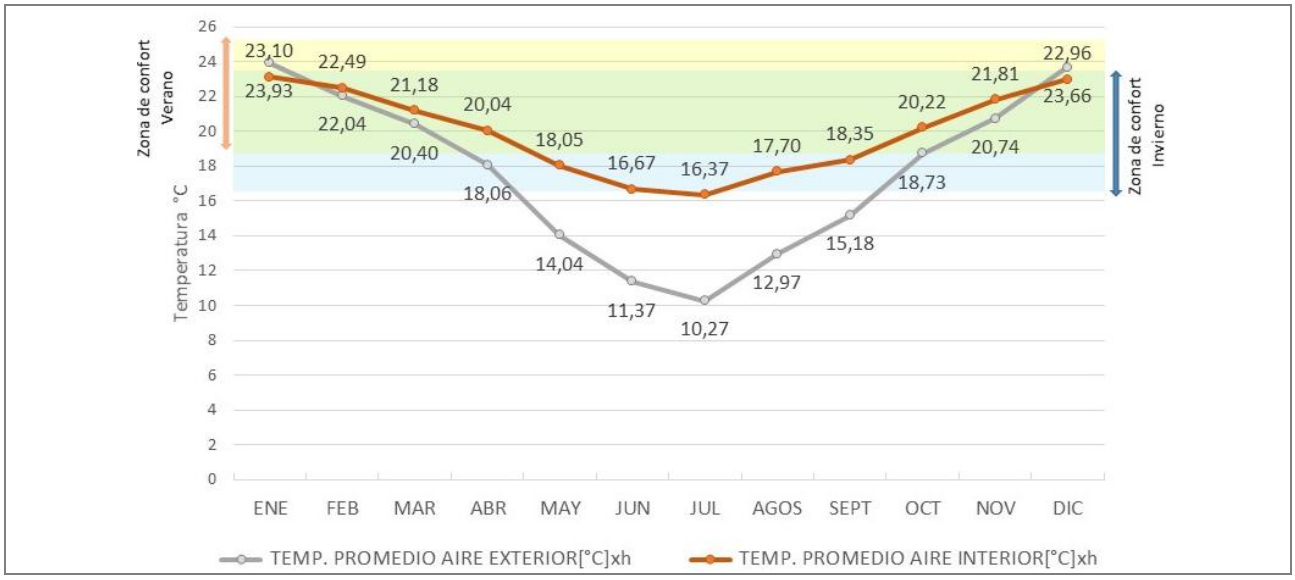

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 60,5 | 54,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,1** | **8,6** |
| | **Amortiguamiento:** | 0,035 | 0,041 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,6** | **4,5** |
| | **Amortiguamiento:** | 0,106 | 0,311 |

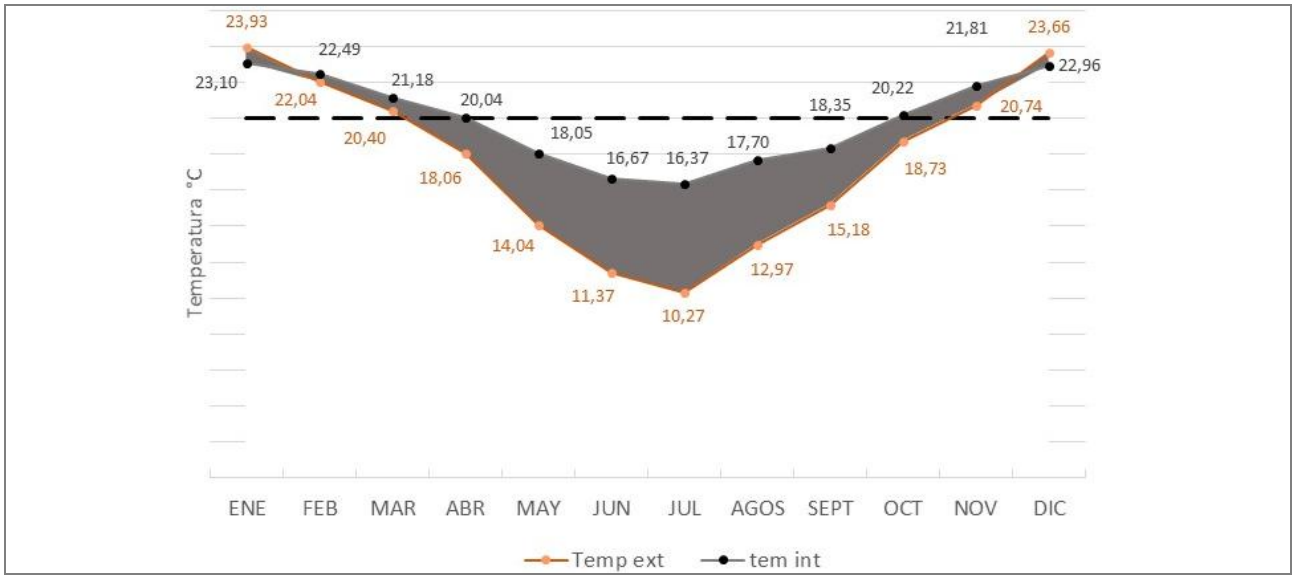
| VIG-012 | CU | LOSAS VIGUETAS |
|---|---|---|

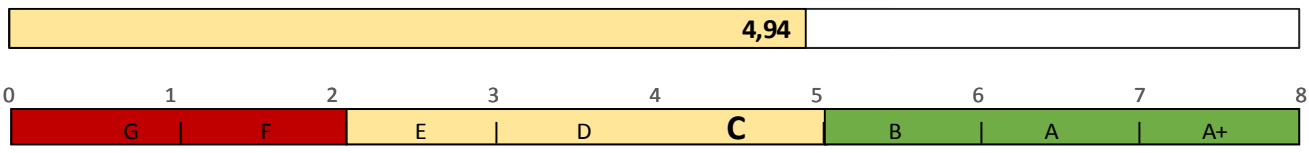
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 24:00 hs | **26,96** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,58** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



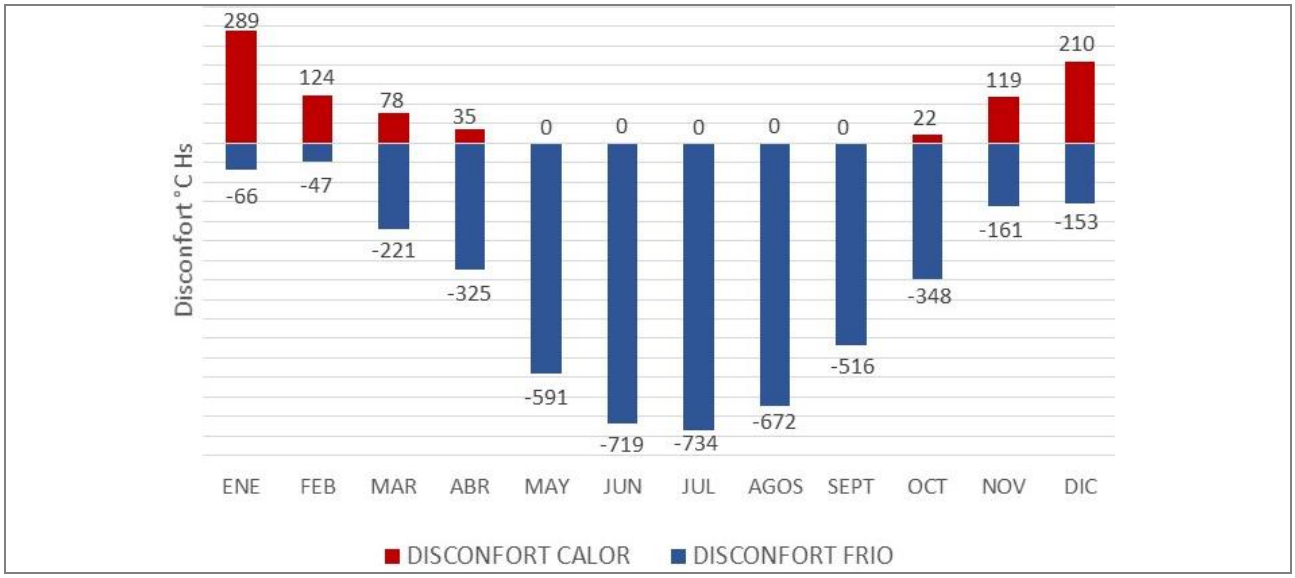




4,94 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| VIG-012 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

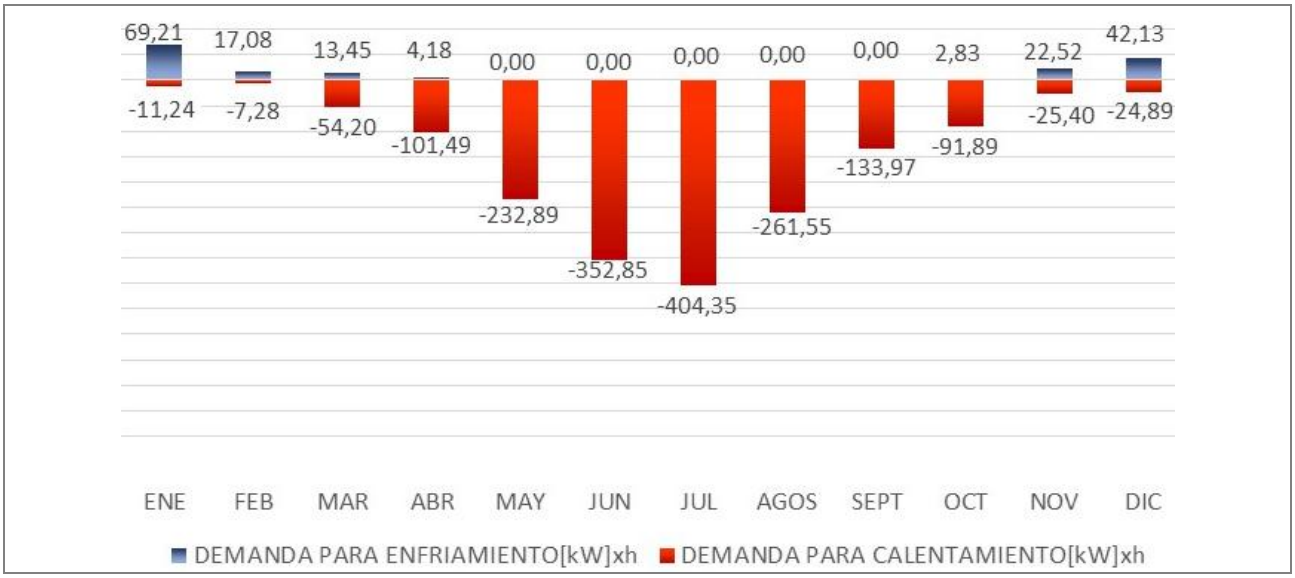
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **877** | °C Hs | 10% |
| HORAS DE DISCONFORT POR FRIO | **4.554** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.431** | **°C Hs** | **62%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

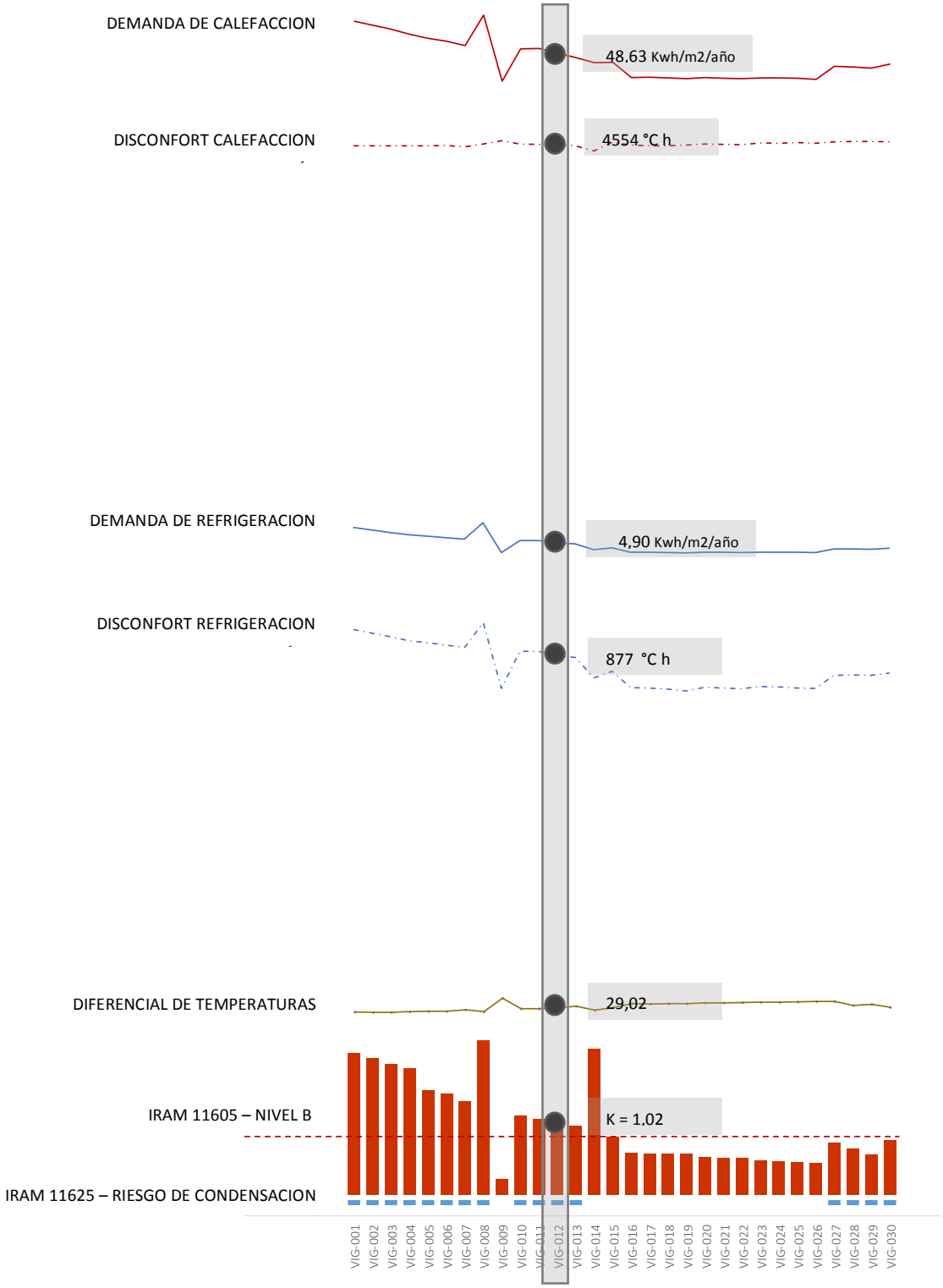



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **171,40** | kWh | 4,90 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.702,01** | kWh | 48,63 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.873,41** | kWh | **53,53** | kWh/m2/año |

| VIG-012 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 101 | N° 098 | N° 105 | N° 105 | N° 039 | N° 104 |



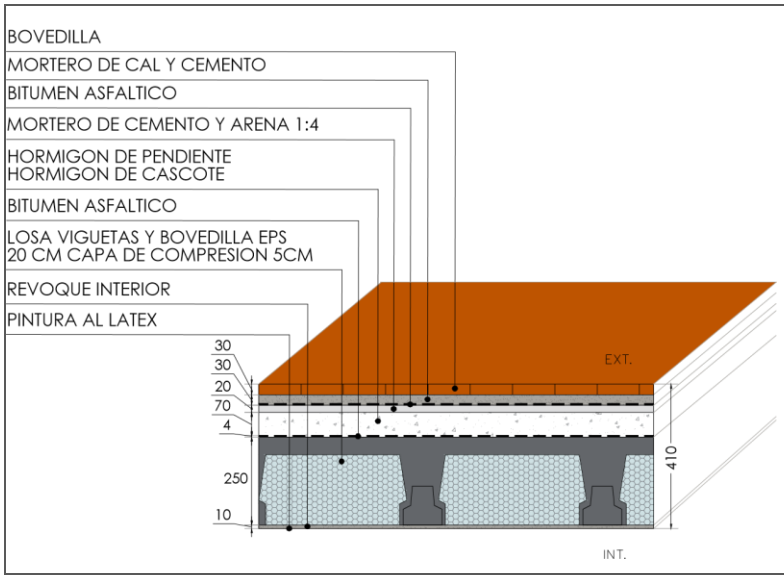

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 1,02 | 100% | 29,02 | 48,63 | 4,9 | 4554 | 877 |
| INC. FAMILIA | 101,73% | 0% | 99,30% | 104,32% | 117,36% | 99,99% | 119,62% |
| INC. MUNDIAL | 125,93% | 0% | 97,71% | 109,33% | 119,13% | 99,85% | 138,84% |

| VIG-013 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS PRETENSADAS Y LADRILLOS EPS H 20 CM CON CUBIERTA TRADICIONAL POR VIA HUMEDA CON TERMINACION DE BOVEDILLAS.

## INDICE DE TRANSMITANCIA TERMICA "K"

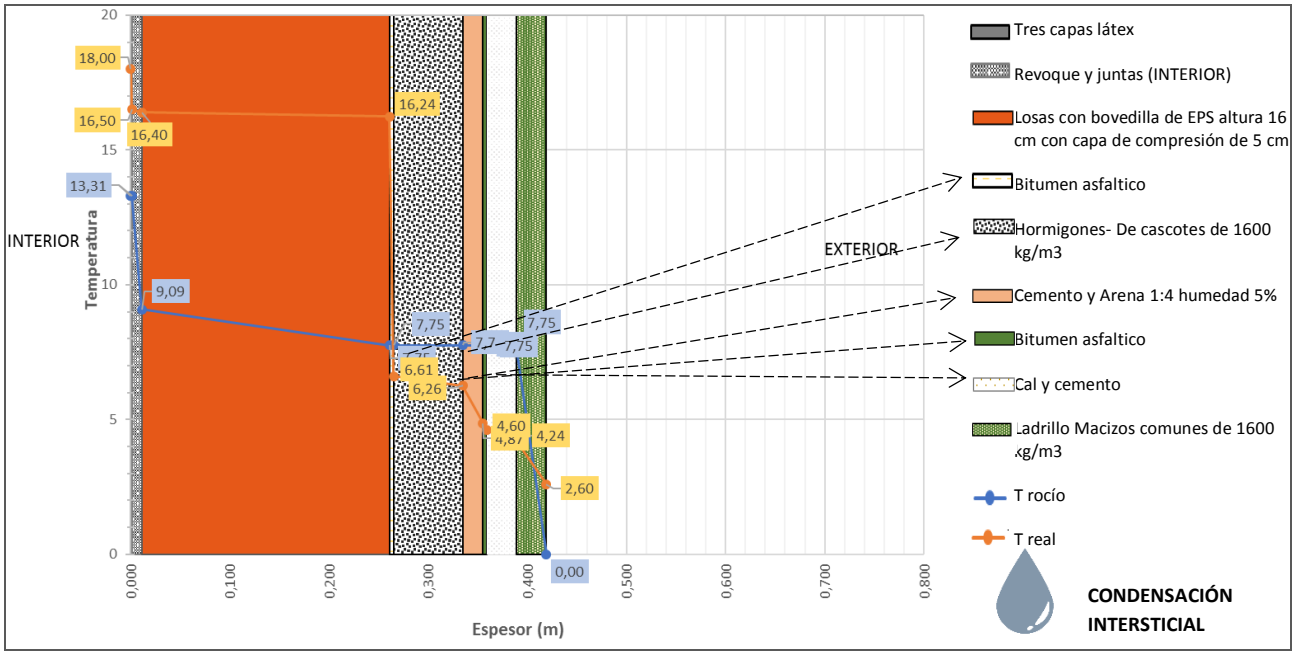
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,91 | 0,98 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



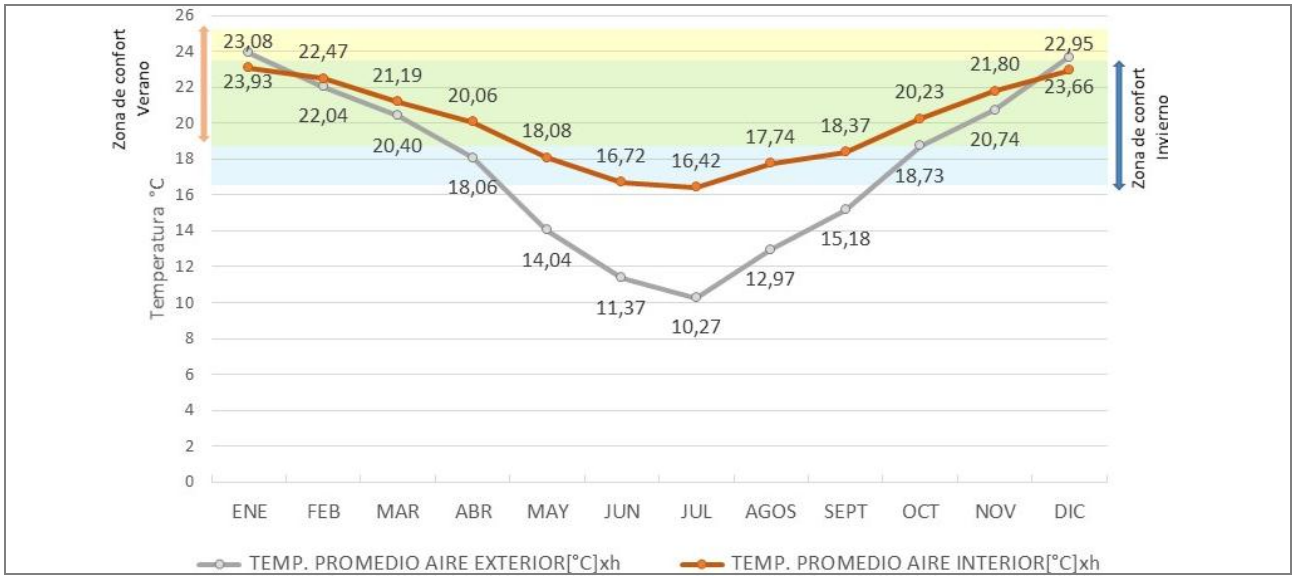

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 57,7 | 52,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,3** | **8,8** |
| | **Amortiguamiento:** | 0,032 | 0,038 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,8** | **4,5** |
| | **Amortiguamiento:** | 0,101 | 0,308 |

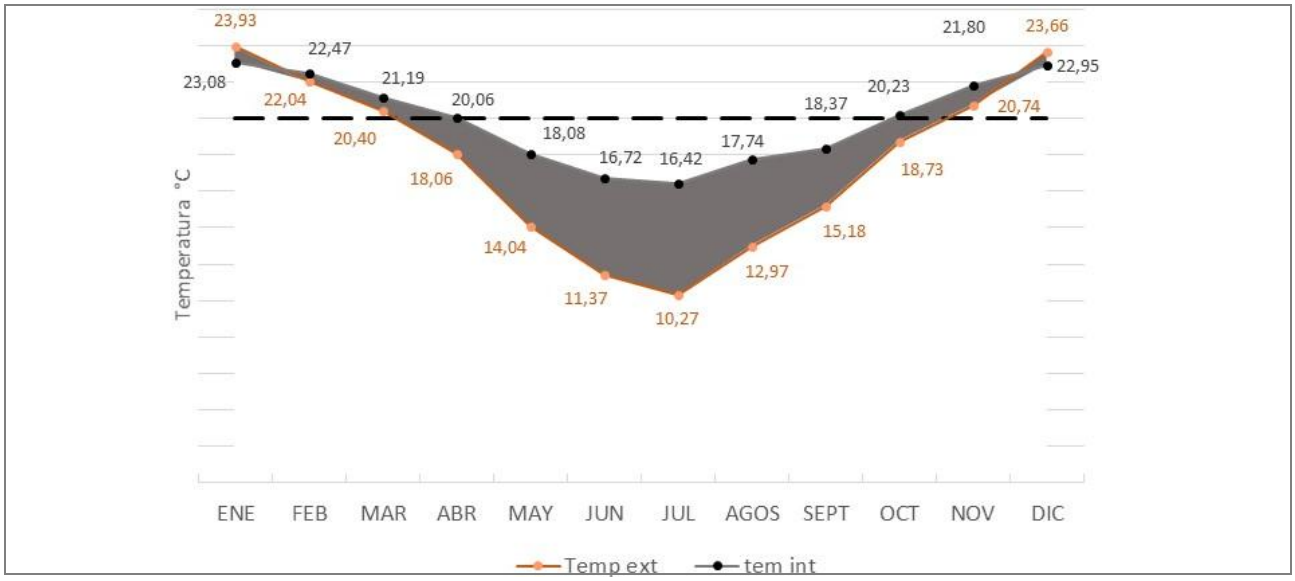
| VIG-013 | CU | LOSAS VIGUETAS |
|---|---|---|

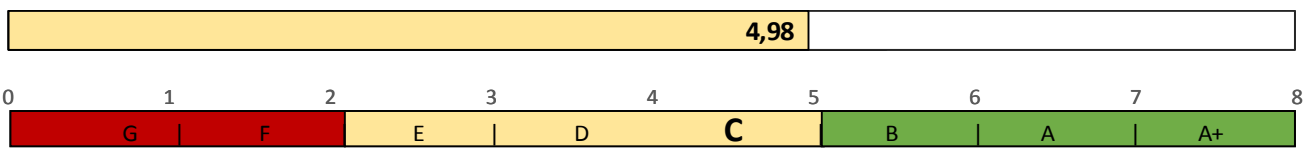
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 24:00 hs | **26,83** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,68** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



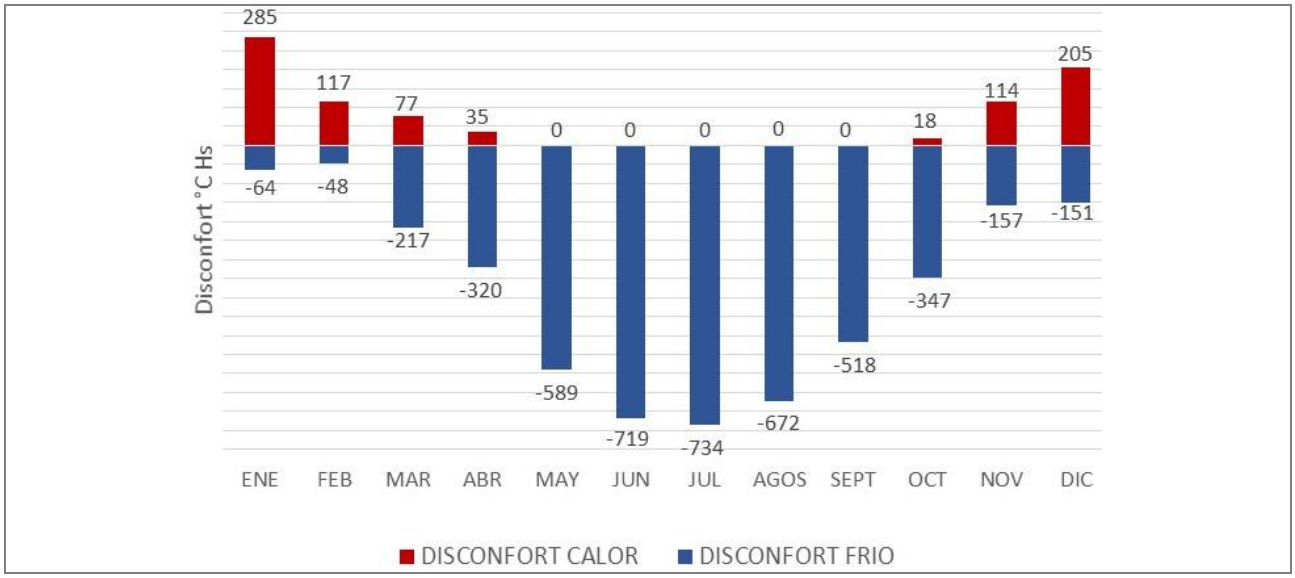




4,98 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| VIG-013 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

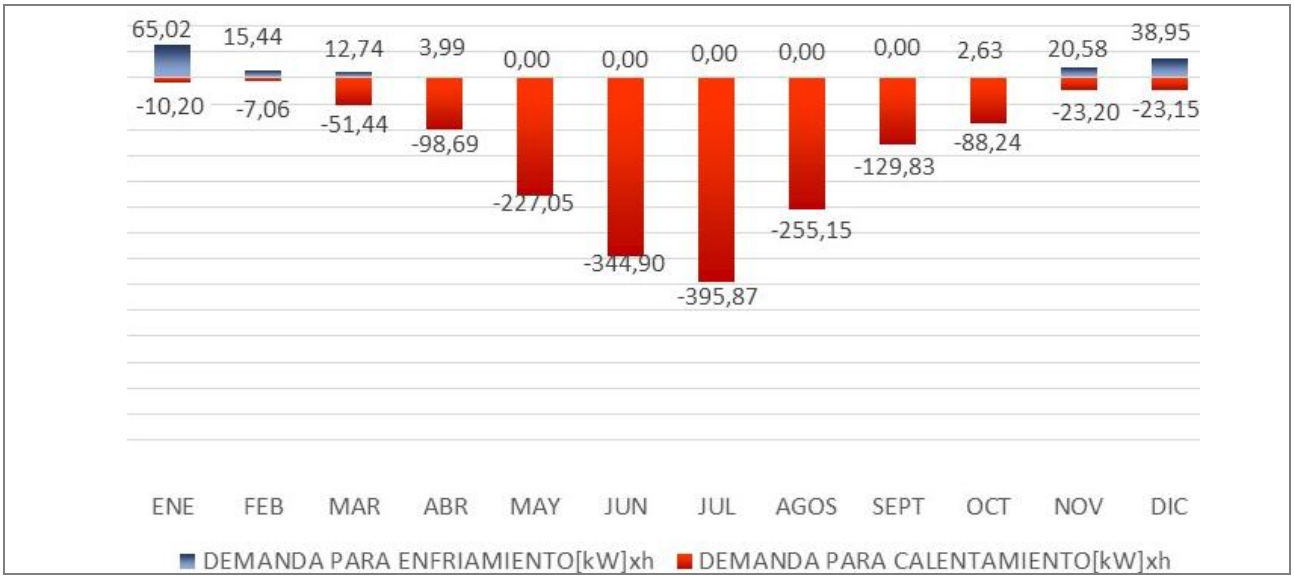
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **852** | °C Hs | 10% |
| HORAS DE DISCONFORT POR FRIO | **4.537** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.389** | **°C Hs** | **62%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

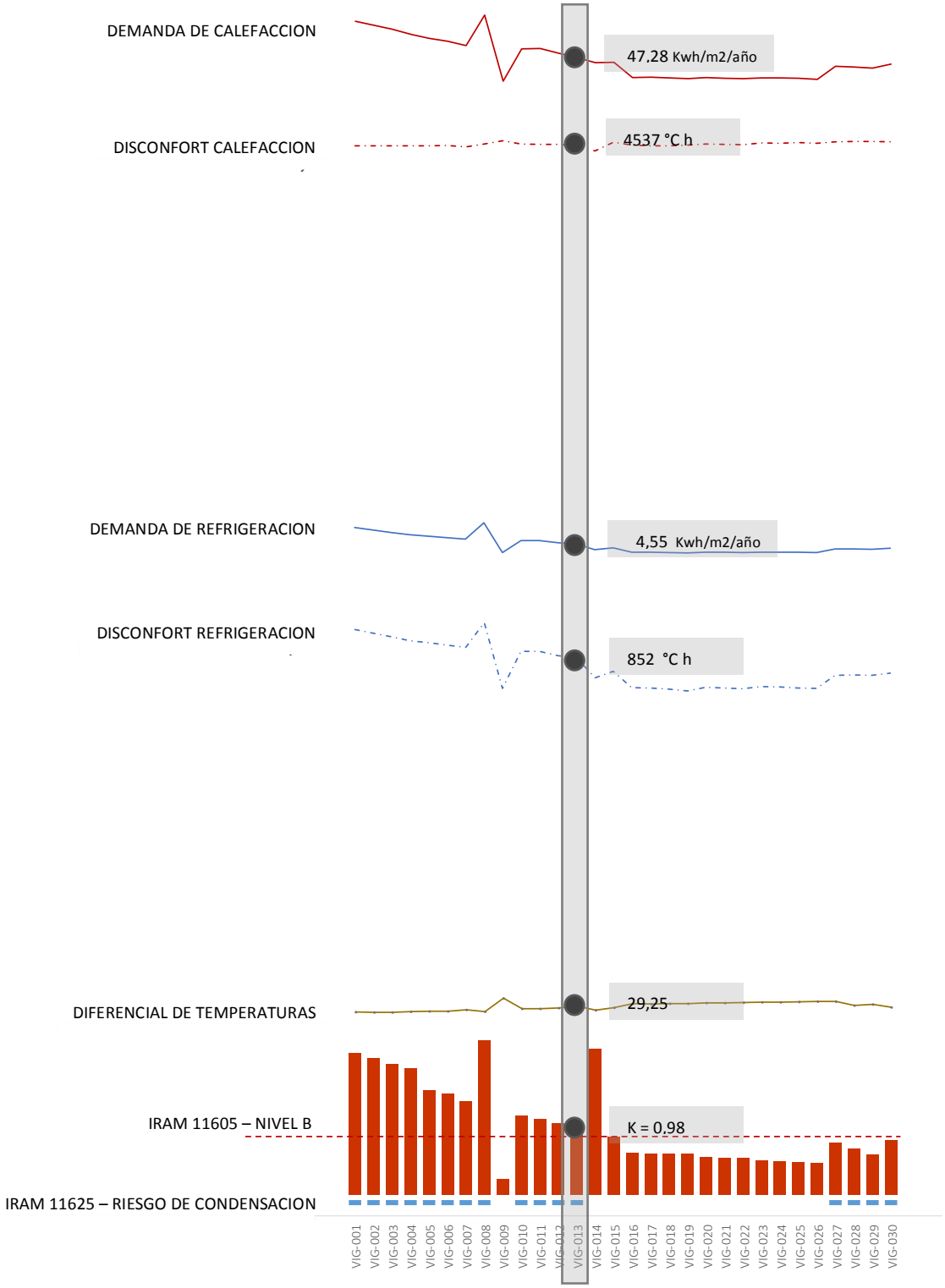



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **159,34** | kWh | 4,55 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.654,80** | kWh | 47,28 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.814,14** | kWh | **51,83** | kWh/m2/año |

| VIG-013 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 097 | N° 088 | N° 104 | N° 104 | N° 023 | N° 103 |



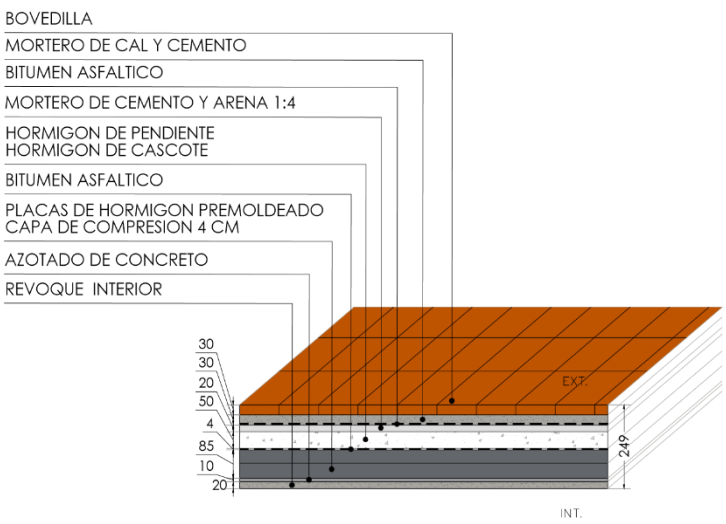

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,98 | 100% | 29,25 | 47,28 | 4,55 | 4537 | 852 |
| INC. FAMILIA | 97,74% | 0% | 100,08% | 101,42% | 108,97% | 99,62% | 116,21% |
| INC. MUNDIAL | 120,99% | 0% | 98,49% | 106,30% | 110,62% | 99,48% | 134,88% |

| VIG-014 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETA Y PACAS PREFABRICADAS CON CUBIERTA TRADICIONAL

## INDICE DE TRANSMITANCIA TERMICA "K"

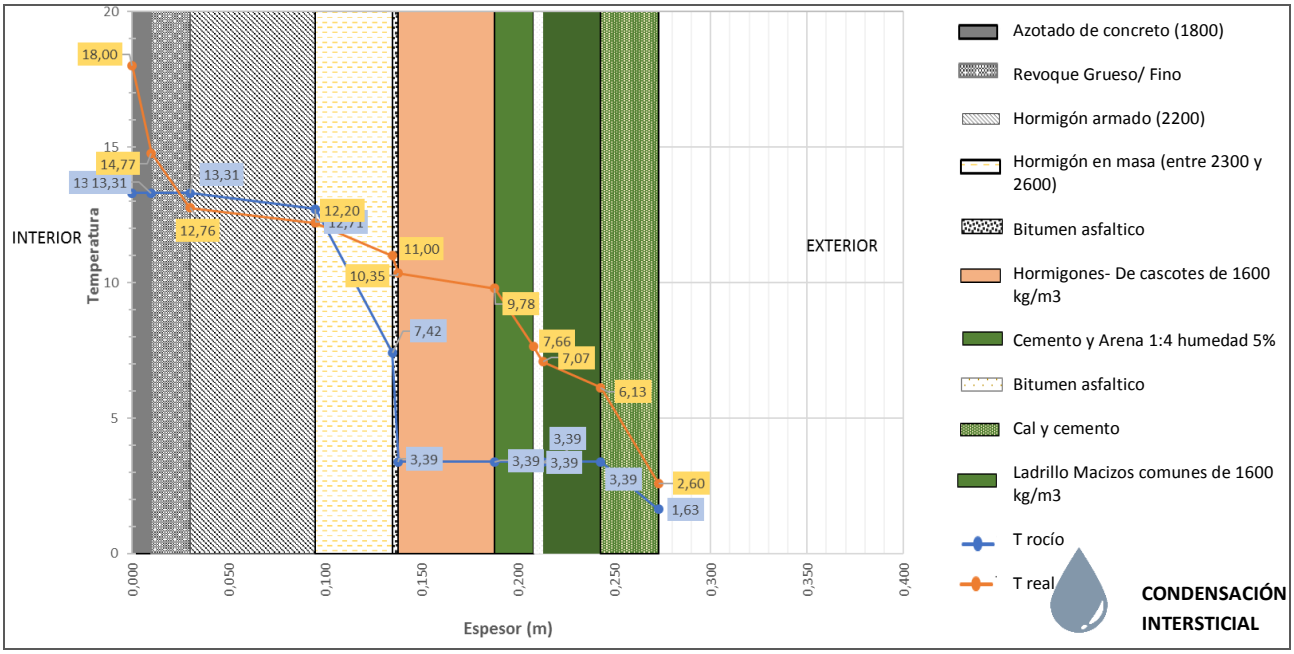
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,83 | 2,09 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



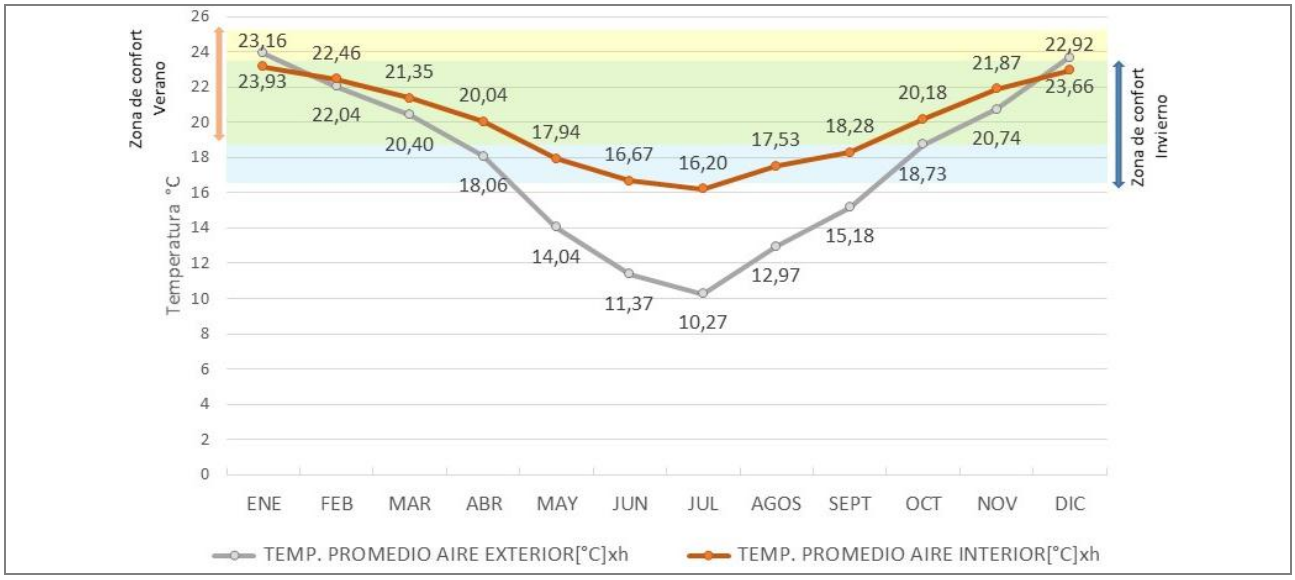

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | 700,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | **12,3** |
| | **Amortiguamiento:** | | 0,010 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,8** | **9,7** |
| | **Amortiguamiento:** | 0,046 | 0,078 |

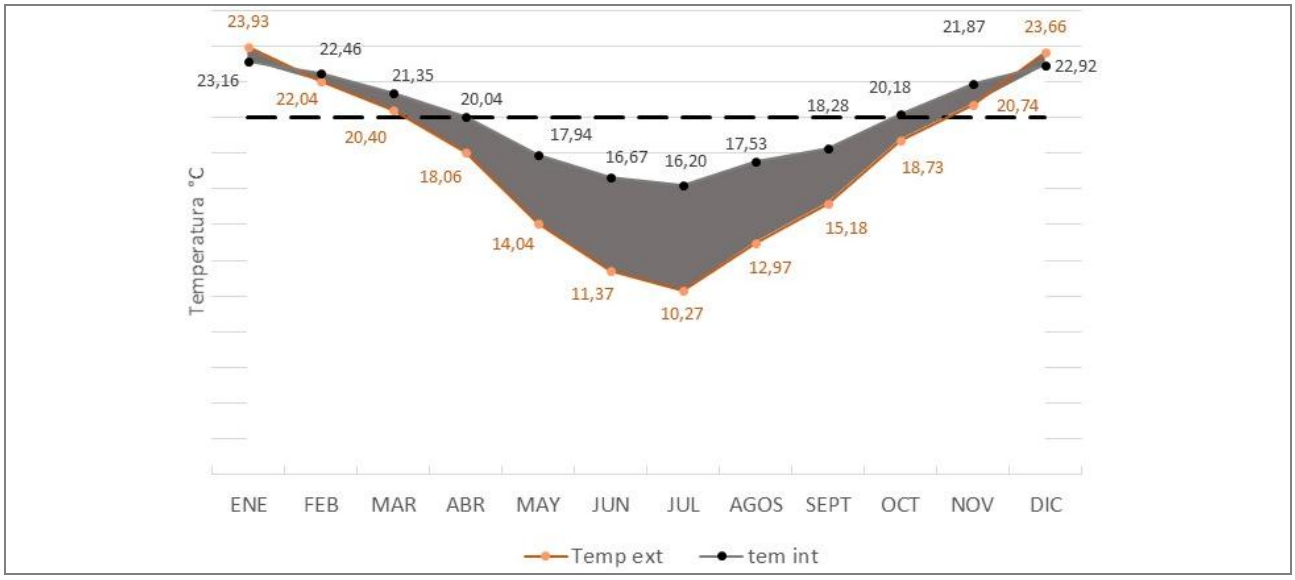
| VIG-014 | CU | LOSAS VIGUETAS |
|---|---|---|

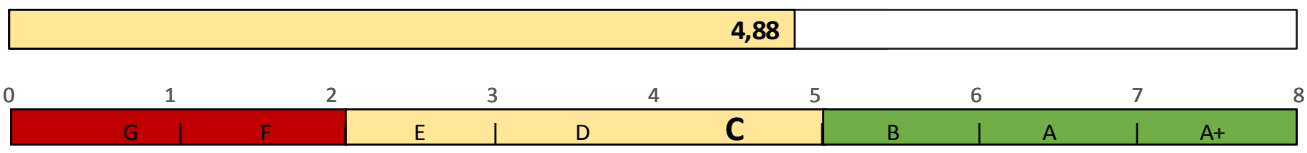
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,96** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,10** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



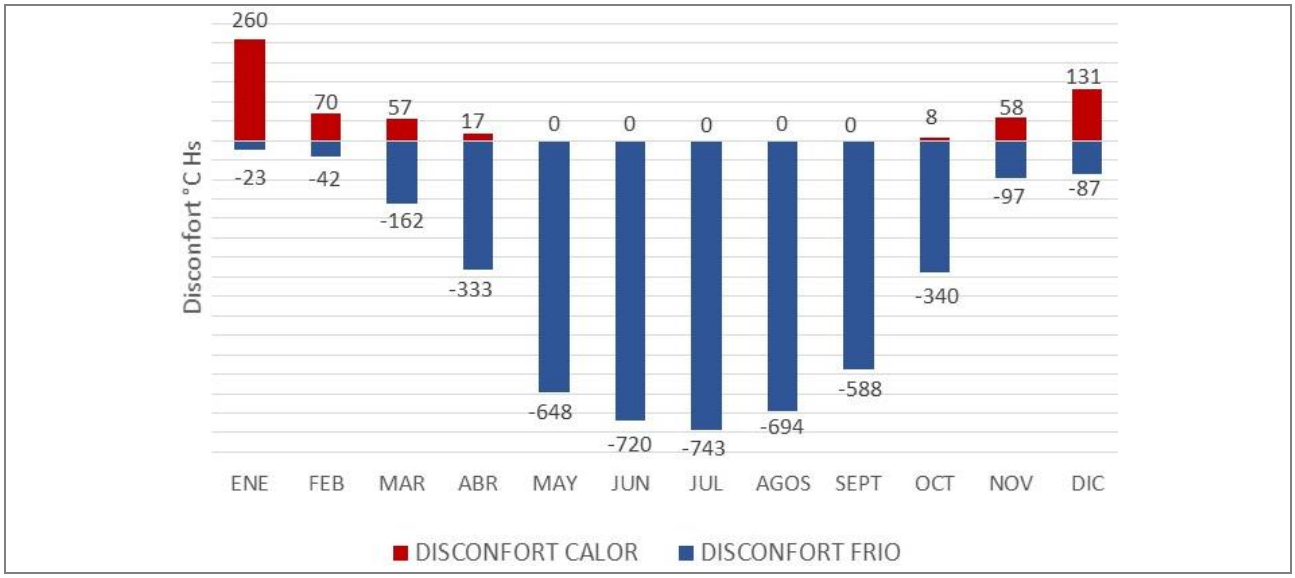




4,88 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| VIG-014 | CU | LOSAS VIGUETAS |
|---|---|---|

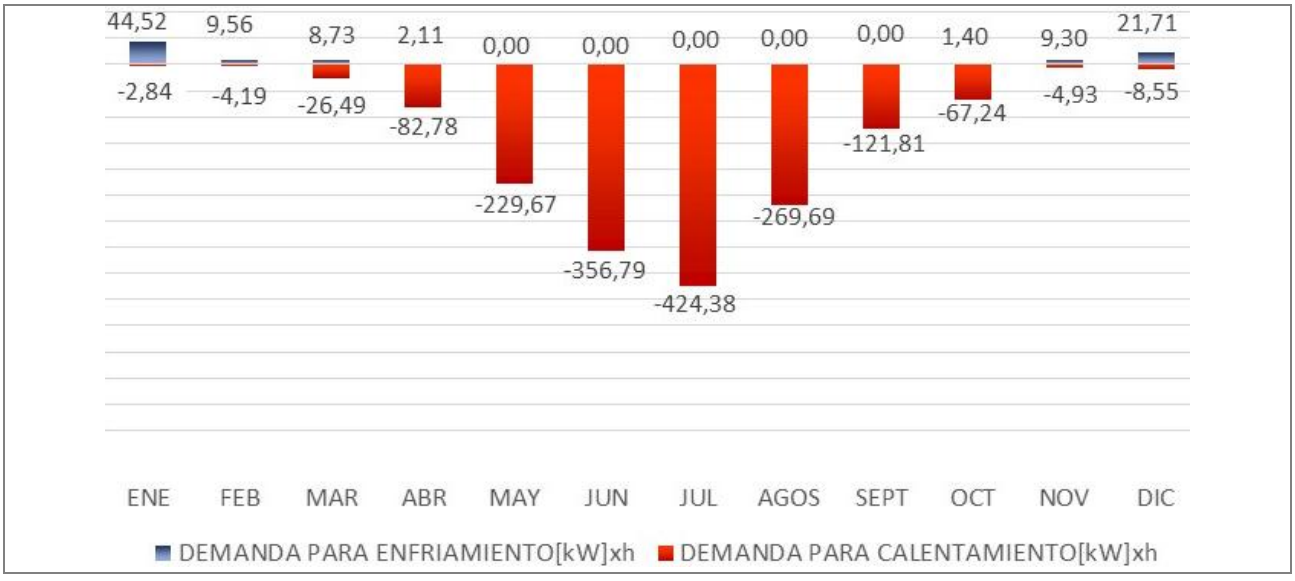
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **602** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRIO | **4.477** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.079** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

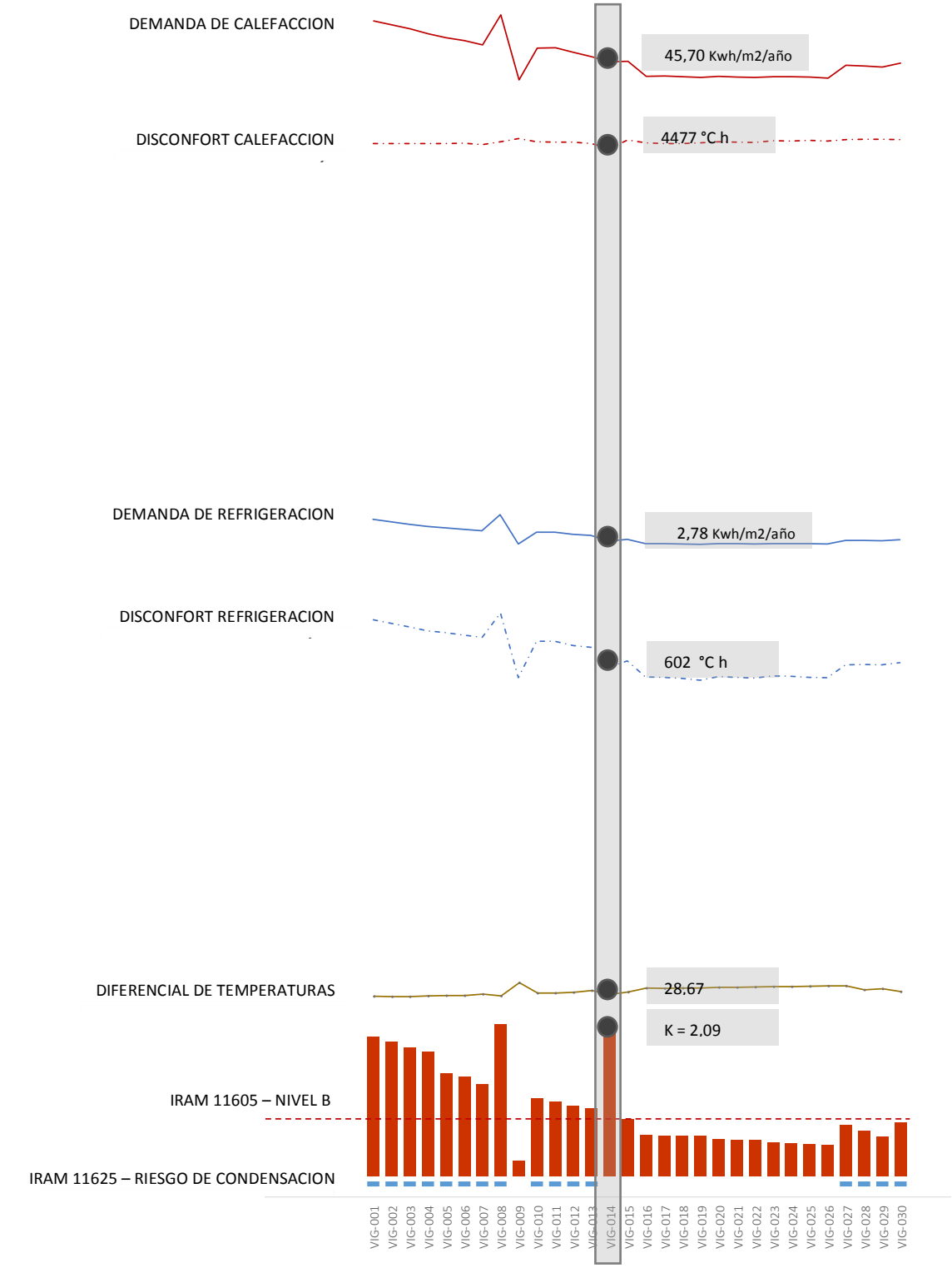



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **97,33** | kWh | 2,78 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.599,36** | kWh | 45,70 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.696,68** | kWh | **48,48** | kWh/m2/año |

| VIG-014 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 113 | N° 107 | N° 097 | N° 063 | N° 002 | N° 071 |



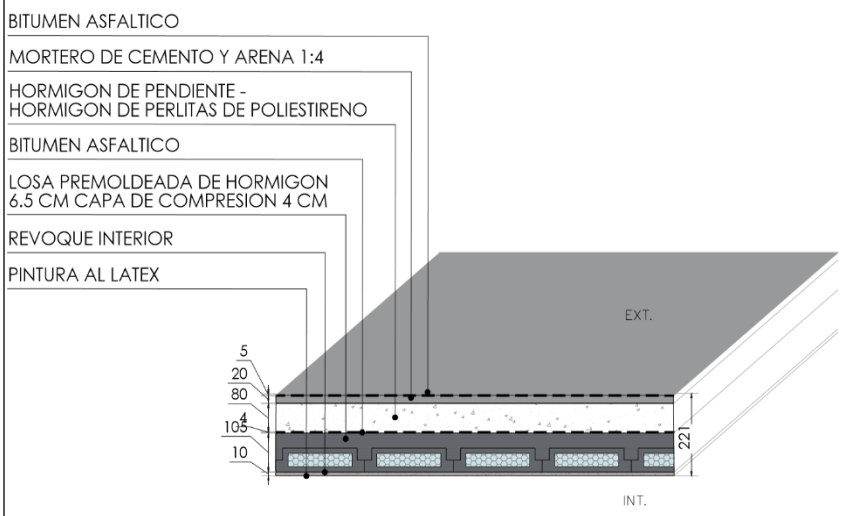

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 2,09 | 100% | 28,67 | 45,7 | 2,78 | 4477 | 602 |
| INC. FAMILIA | 208,44% | 0% | 98,10% | 98,03% | 66,58% | 98,30% | 82,11% |
| INC. MUNDIAL | 258,02% | 0% | 96,53% | 102,75% | 67,59% | 98,16% | 95,30% |

| VIG-015 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS Y PLACAS PARA TECHO PREFABRICADAS, CON CUBIERTA TRADICIONAL POR VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

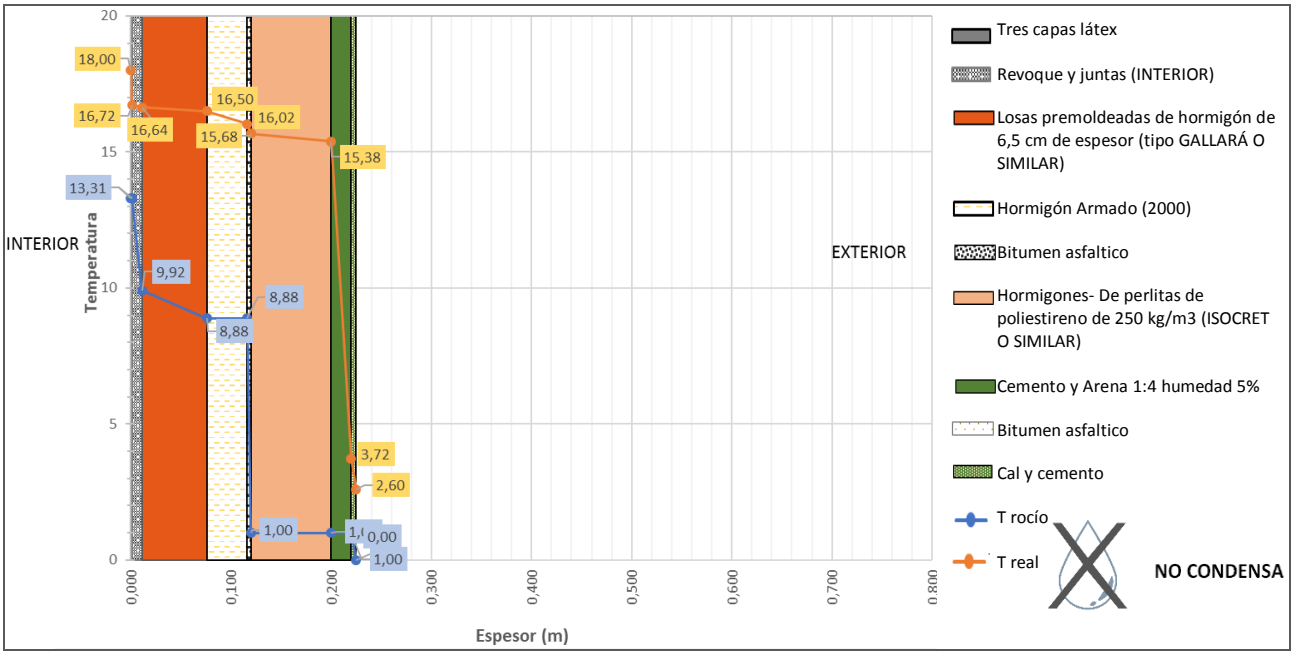
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,79 | 0,83 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 79,7 | 78,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **13,1** | **12,9** |
| | **Amortiguamiento:** | 0,008 | 0,008 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,4** | **11,5** |
| | **Amortiguamiento:** | 0,144 | 0,049 |

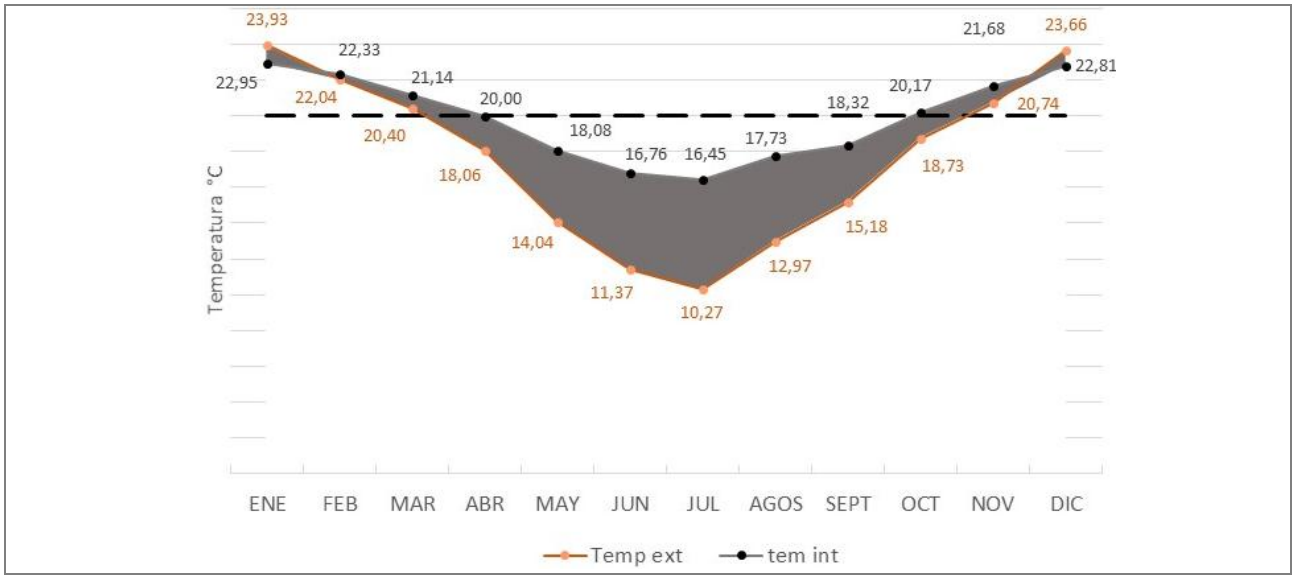
| VIG-015 | CU | LOSAS VIGUETAS |
|---|---|---|

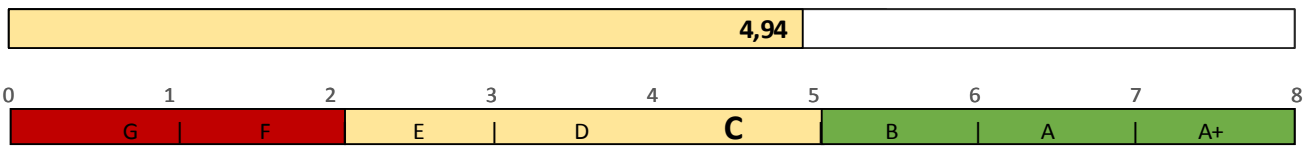
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **26,50** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,80** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



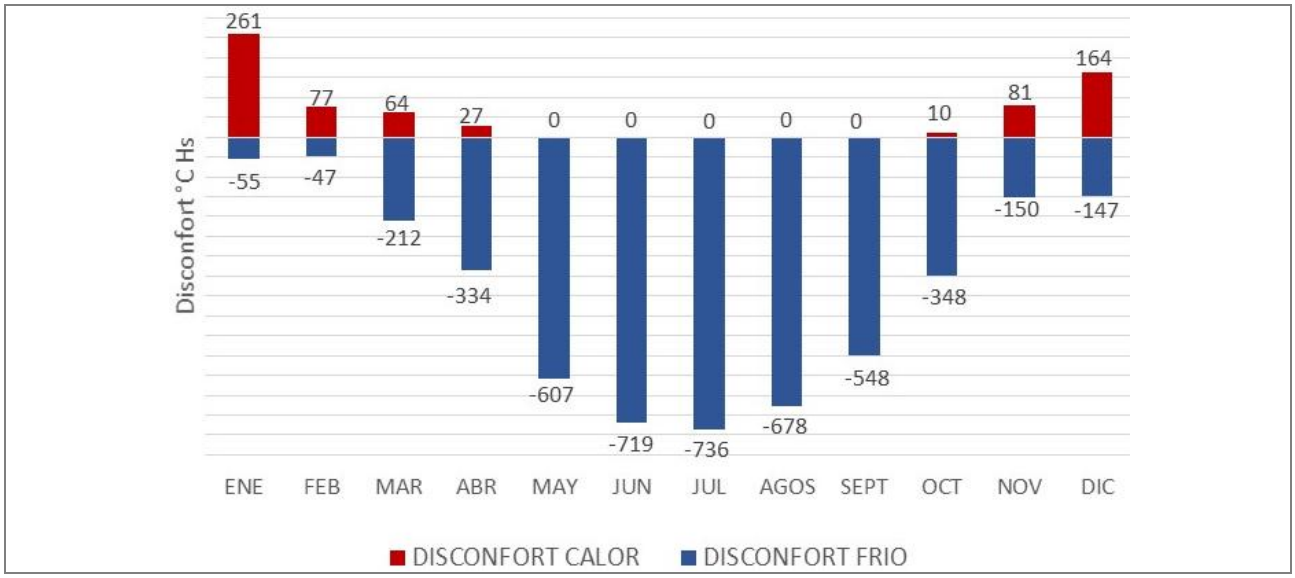




4,94 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| VIG-015 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

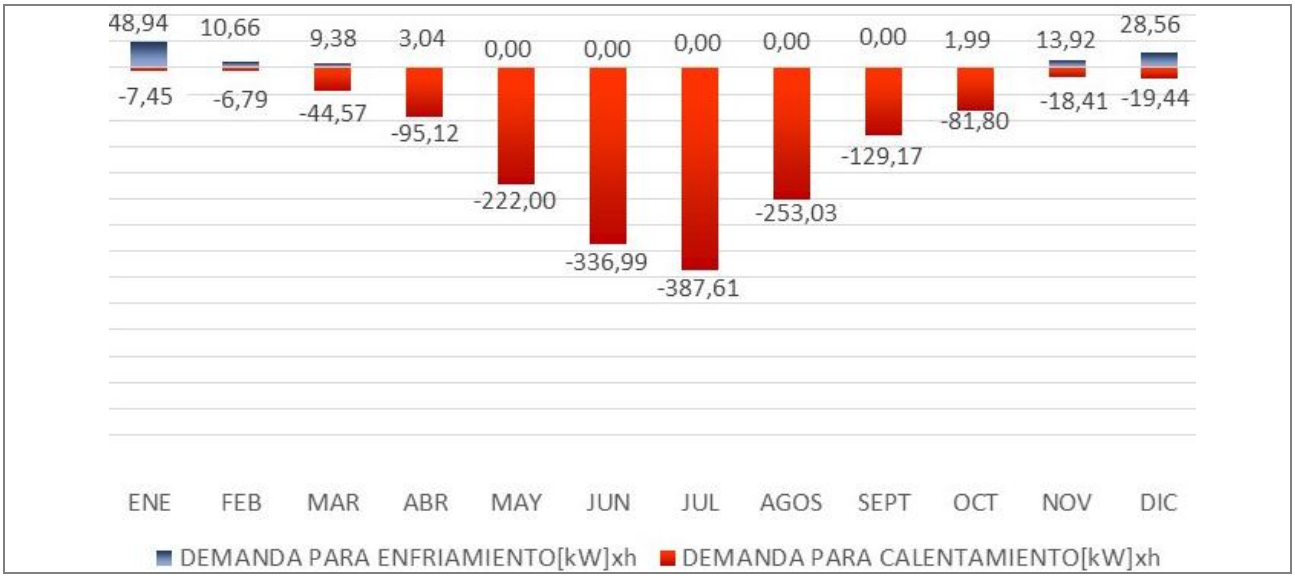
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **683** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRIO | **4.582** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.265** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

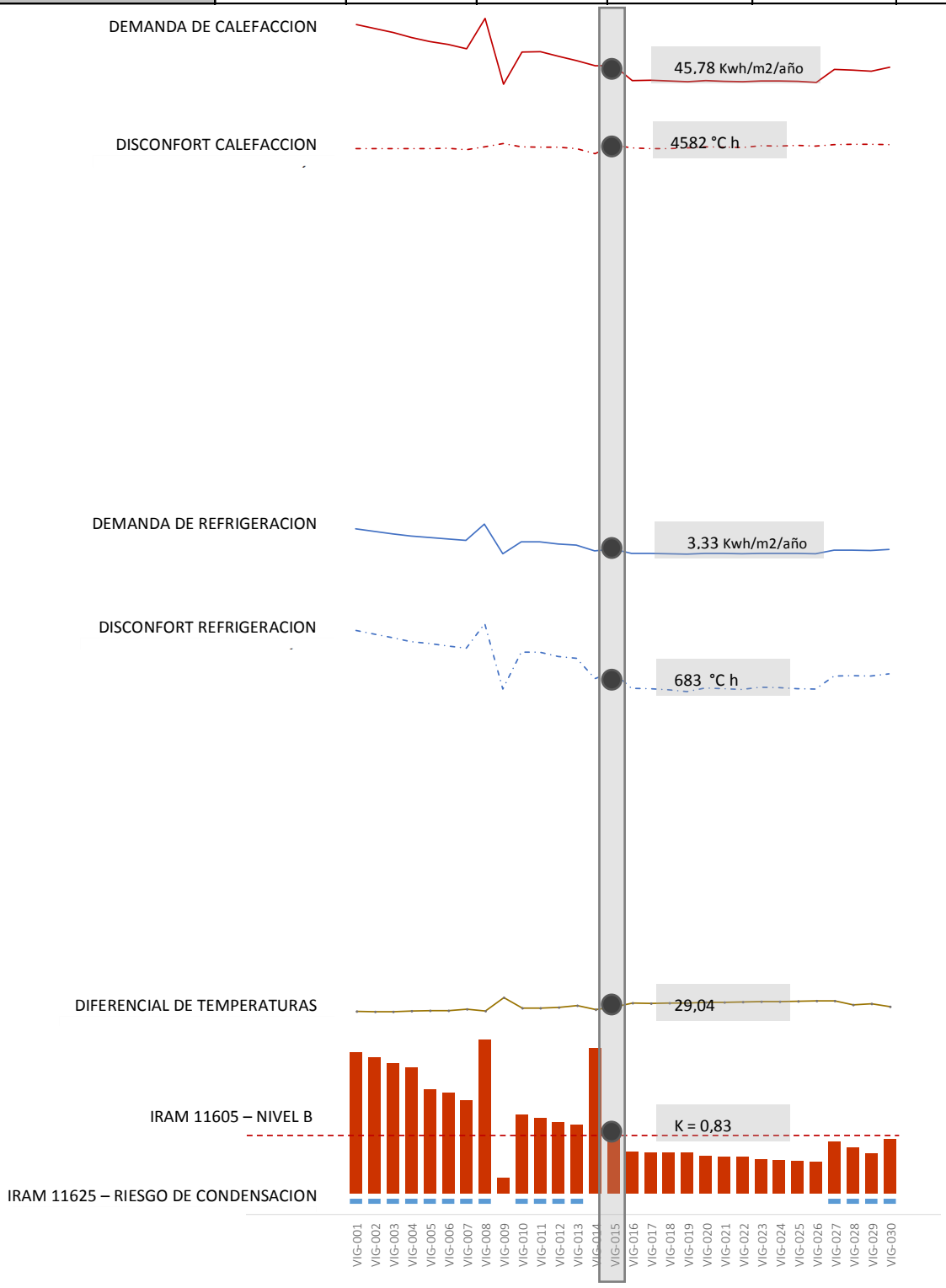



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **116,48** | kWh | 3,33 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.602,38** | kWh | 45,78 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.718,86** | kWh | **49,11** | kWh/m2/año |

| VIG-015 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 089 | N° 097 | N° 098 | N° 091 | N° 073 | N° 096 |



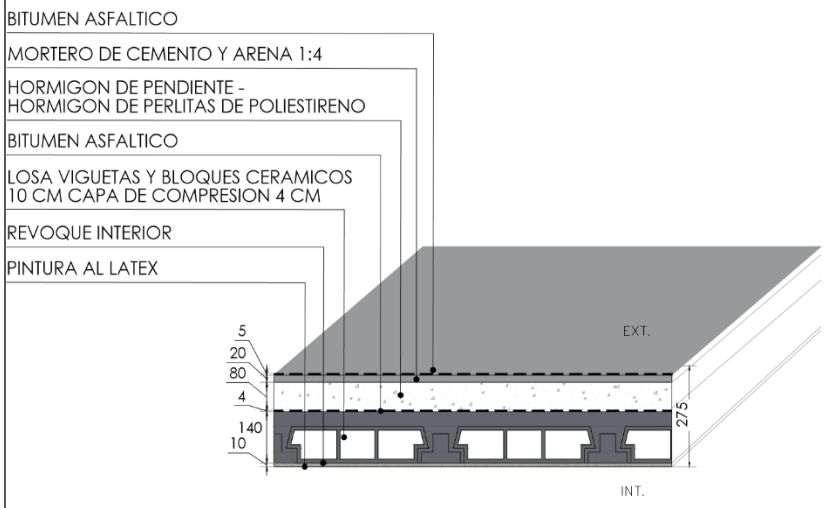

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,83 | 0% | 29,04 | 45,78 | 3,33 | 4582 | 683 |
| INC. FAMILIA | 82,78% | 0% | 99,36% | 98,20% | 79,75% | 100,61% | 93,16% |
| INC. MUNDIAL | 102,47% | 0% | 97,78% | 102,93% | 80,96% | 100,46% | 108,13% |

| VIG-016 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS Y BLOQUES CEMENTO ARENA H 10 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

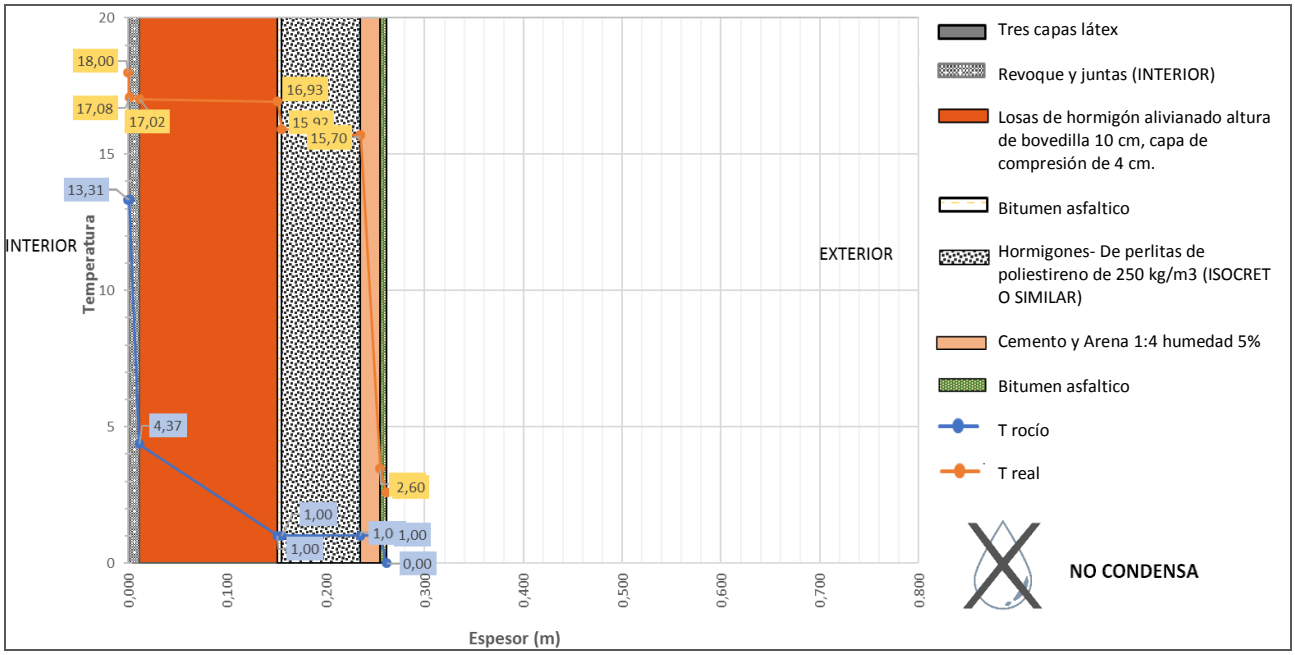
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,57 | 0,60 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 13,6 | Invierno 12,2 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,8** | **7,4** |
| | **Amortiguamiento:** | 0,055 | 0,064 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,4** | **4,7** |
| | **Amortiguamiento:** | 0,185 | 0,293 |

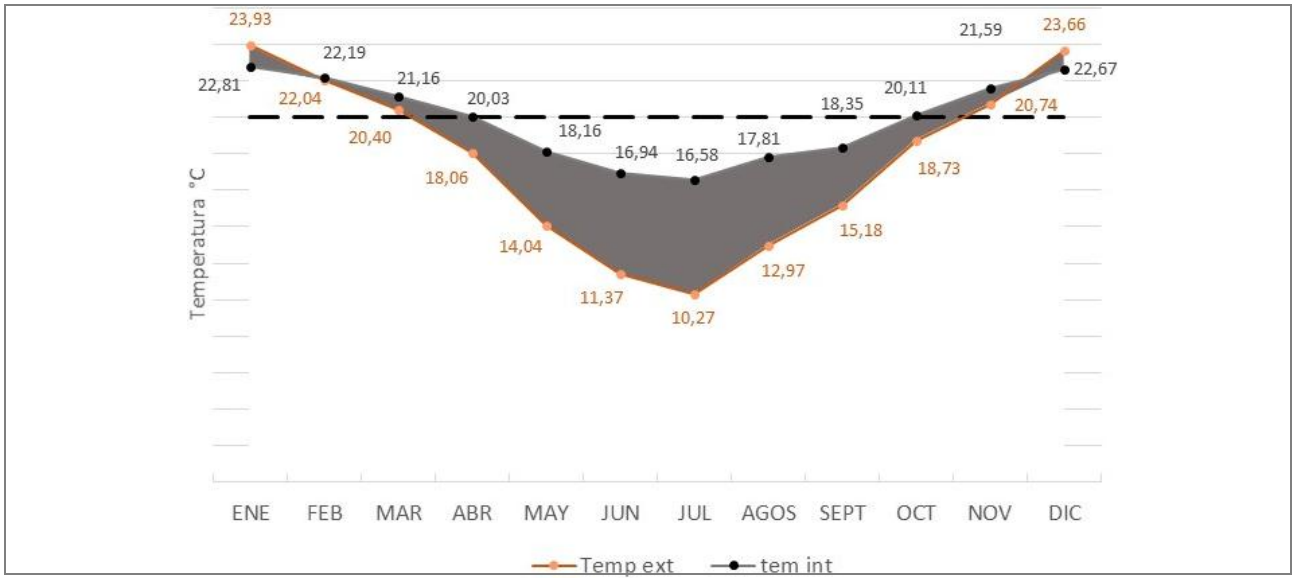
| VIG-016 | CU | LOSAS VIGUETAS |
|---|---|---|

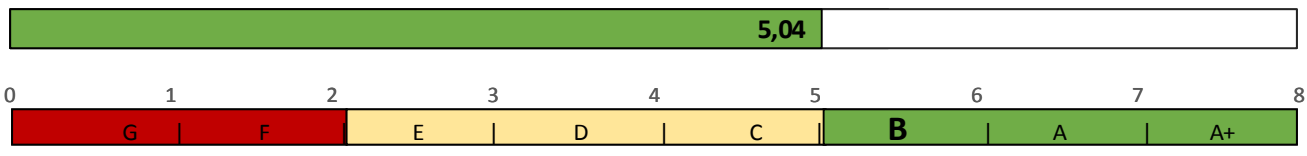
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,75** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,37** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



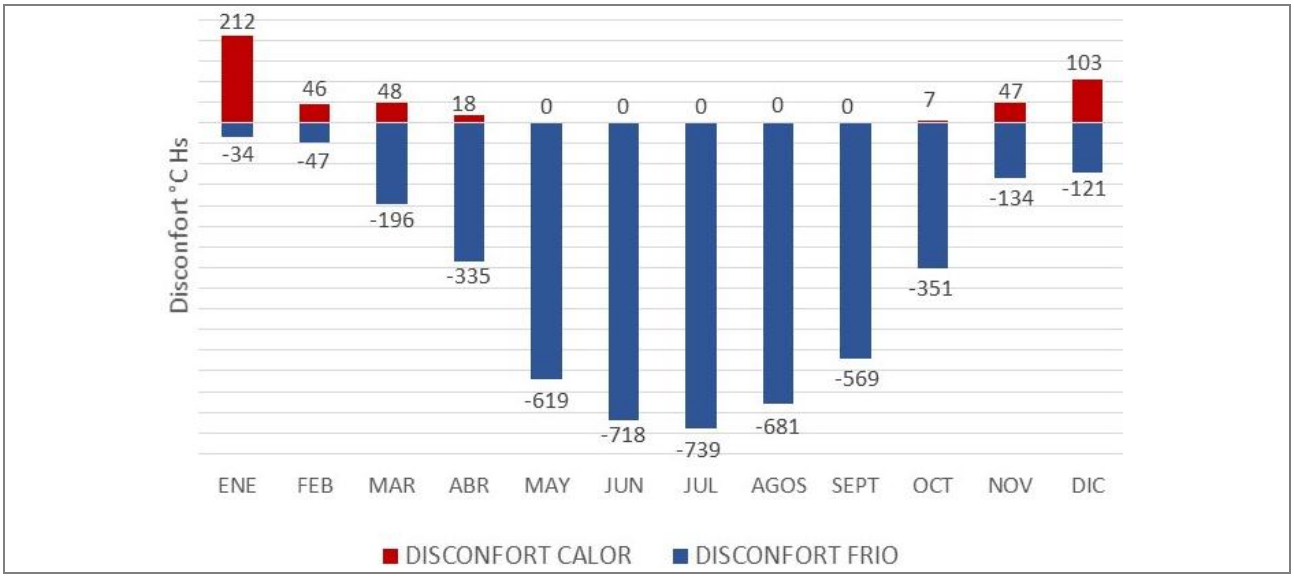




5,04 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| VIG-016 | CU | LOSAS VIGUETAS |
|---|---|---|

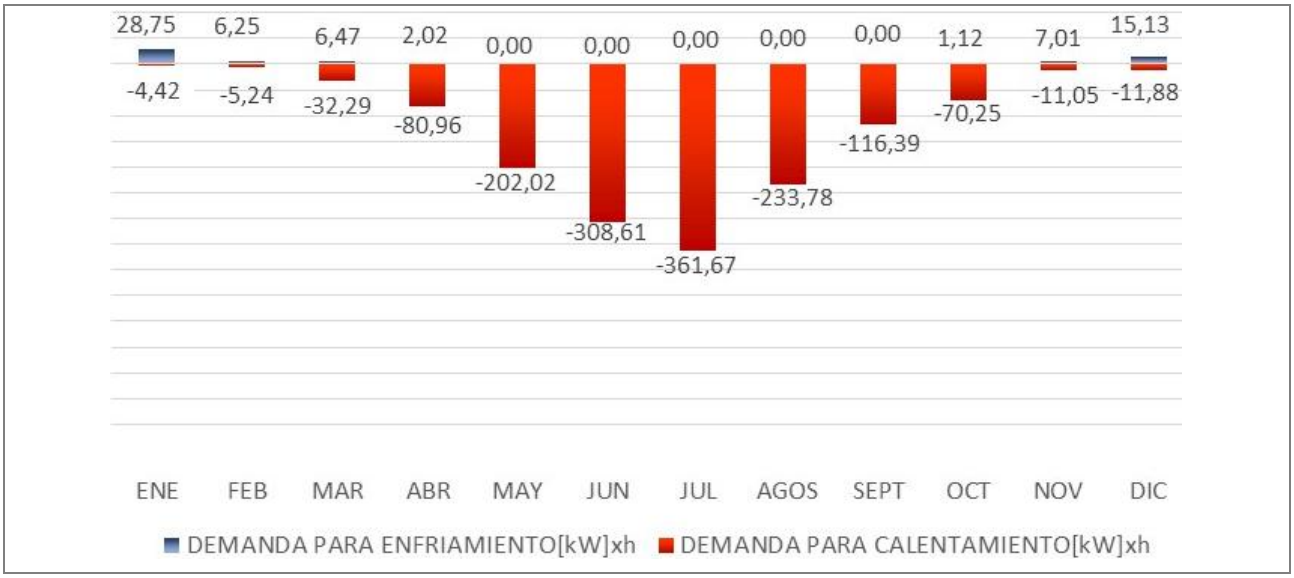
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **480** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRIO | **4.545** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.025** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

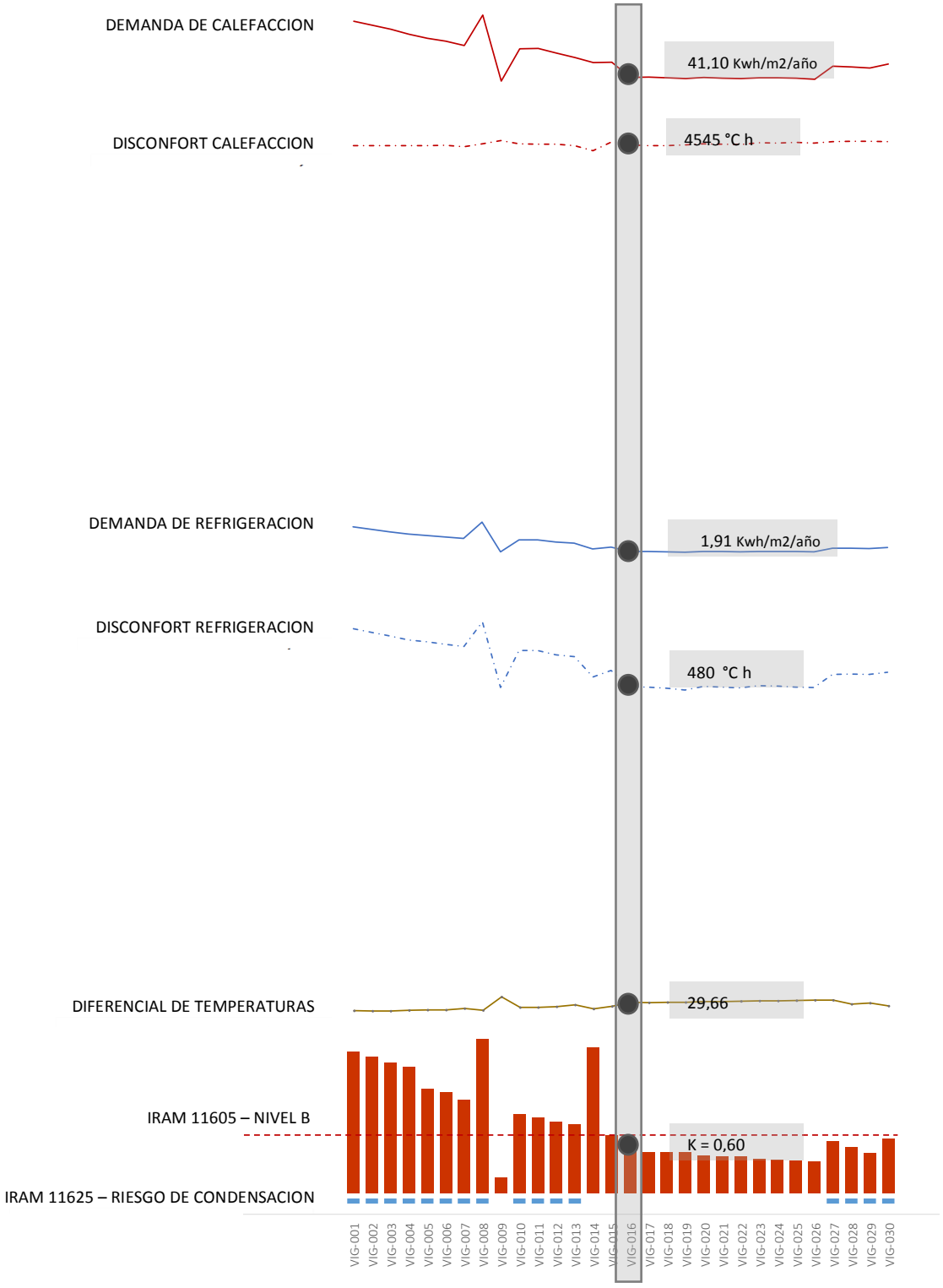



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **66,76** | kWh | 1,91 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.438,56** | kWh | 41,10 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.505,32** | kWh | **43,01** | kWh/m2/año |

| VIG-016 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 075 | N° 067 | N° 043 | N° 034 | N° 031 | N° 036 |



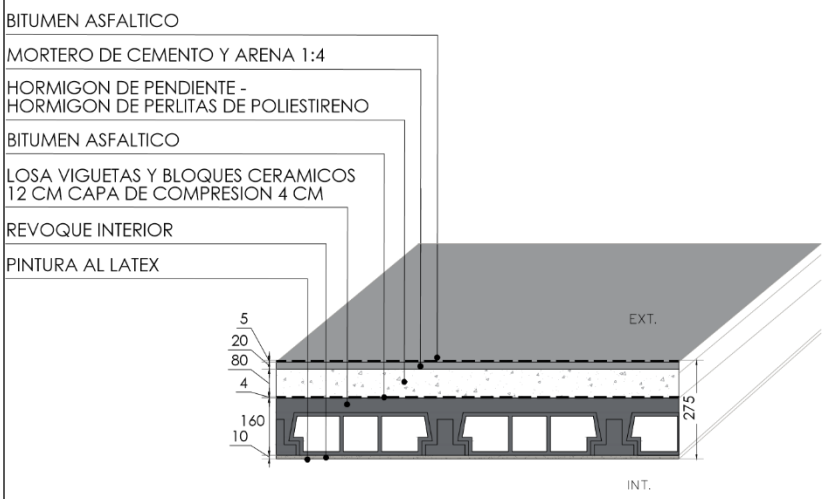

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,6 | 0% | 29,66 | 41,1 | 1,91 | 4545 | 480 |
| INC. FAMILIA | 59,84% | 0% | 101,49% | 88,16% | 45,74% | 99,79% | 65,47% |
| INC. MUNDIAL | 74,07% | 0% | 99,87% | 92,40% | 46,44% | 99,65% | 75,99% |

| VIG-017 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS Y BLOQUES CEMENTO ARENA H 12 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

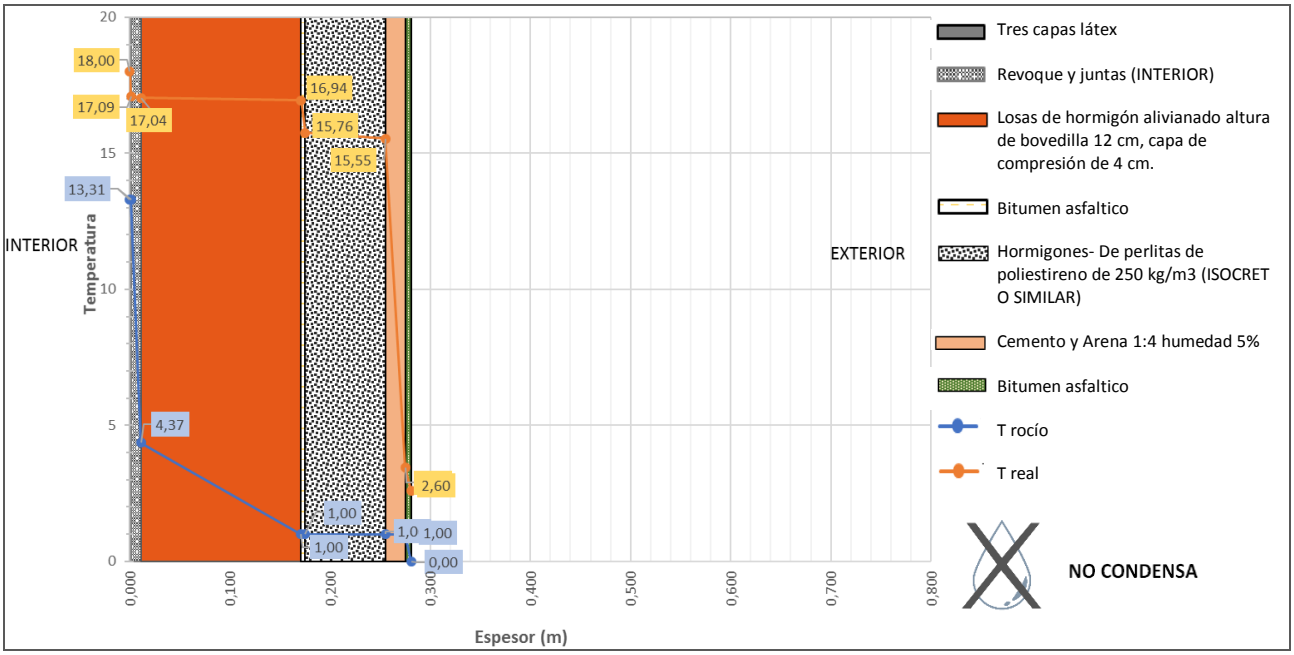
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,57 | 0,59 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



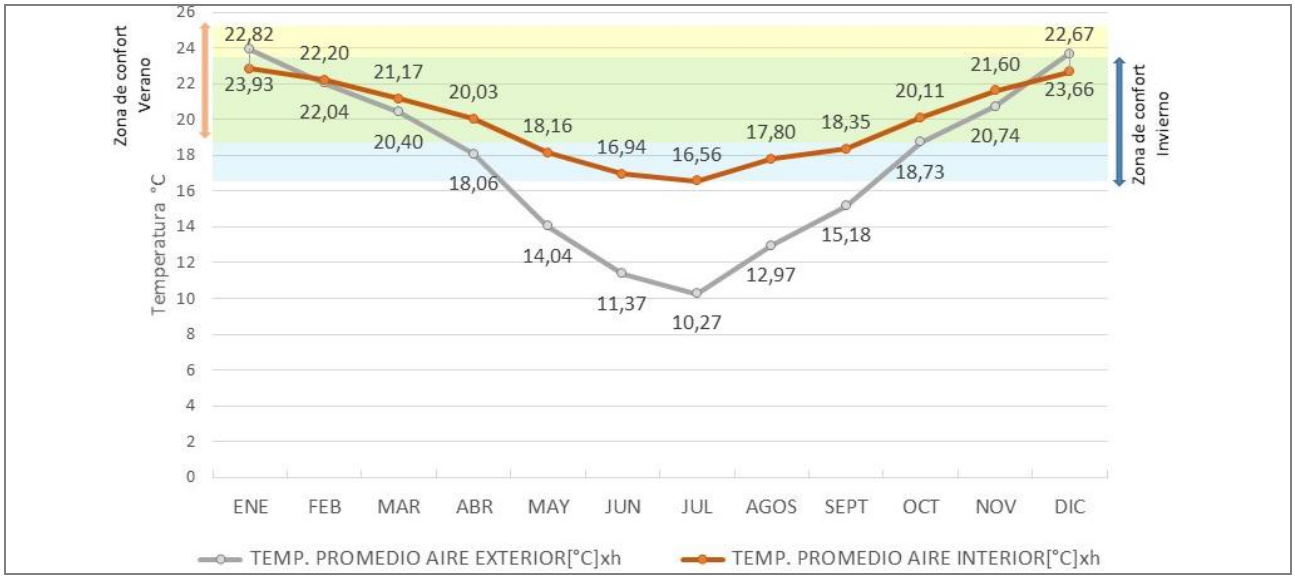

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 13,4 | 12,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,9** | **7,5** |
| | **Amortiguamiento:** | 0,054 | 0,063 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,5** | **4,7** |
| | **Amortiguamiento:** | 0,183 | 0,291 |

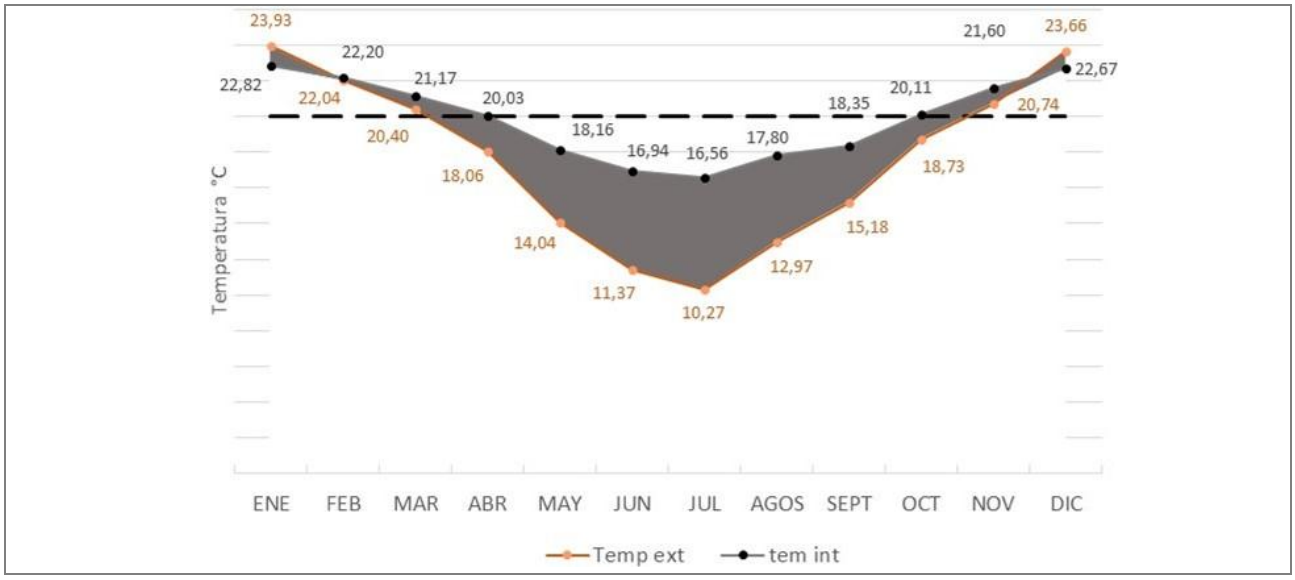
| VIG-017 | CU | LOSAS VIGUETAS |
|---|---|---|

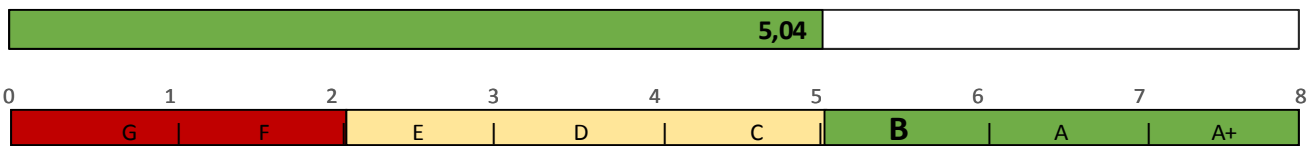
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,72** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,38** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



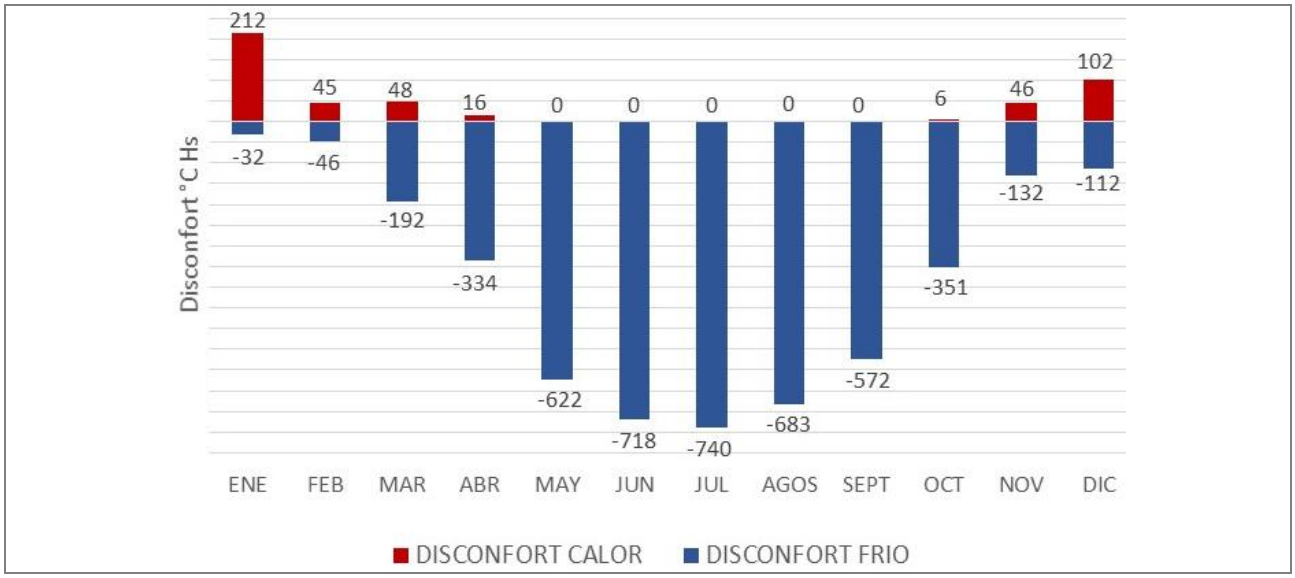




5,04 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| VIG-017 | CU | LOSAS VIGUETAS |
|---|---|---|

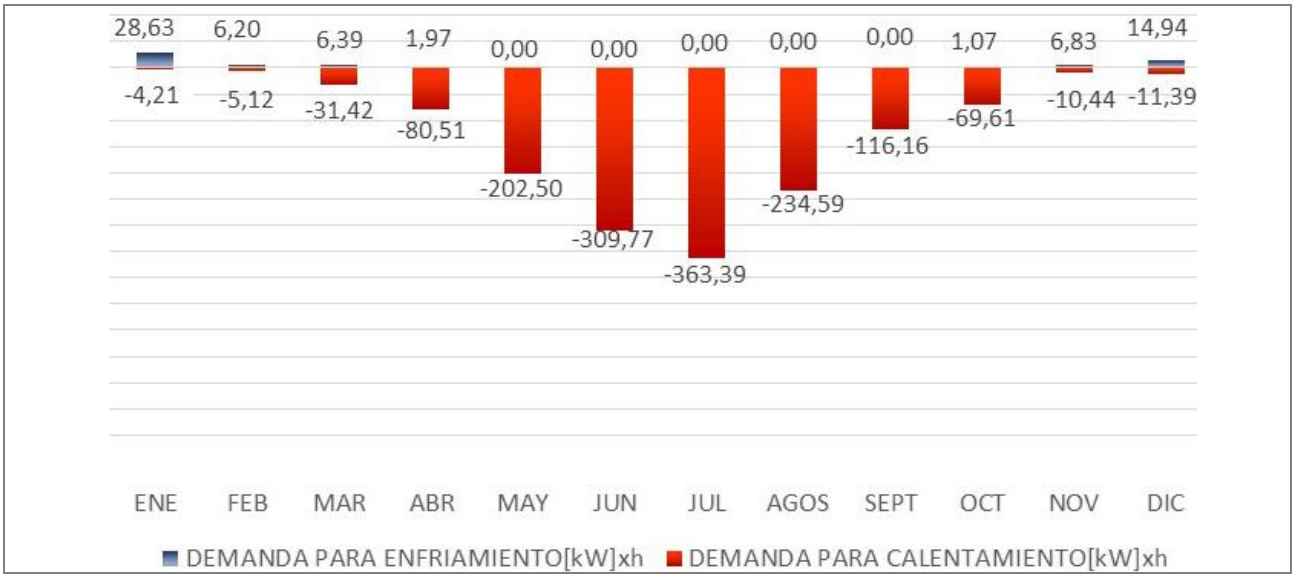
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **475** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRIO | **4.536** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.011** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

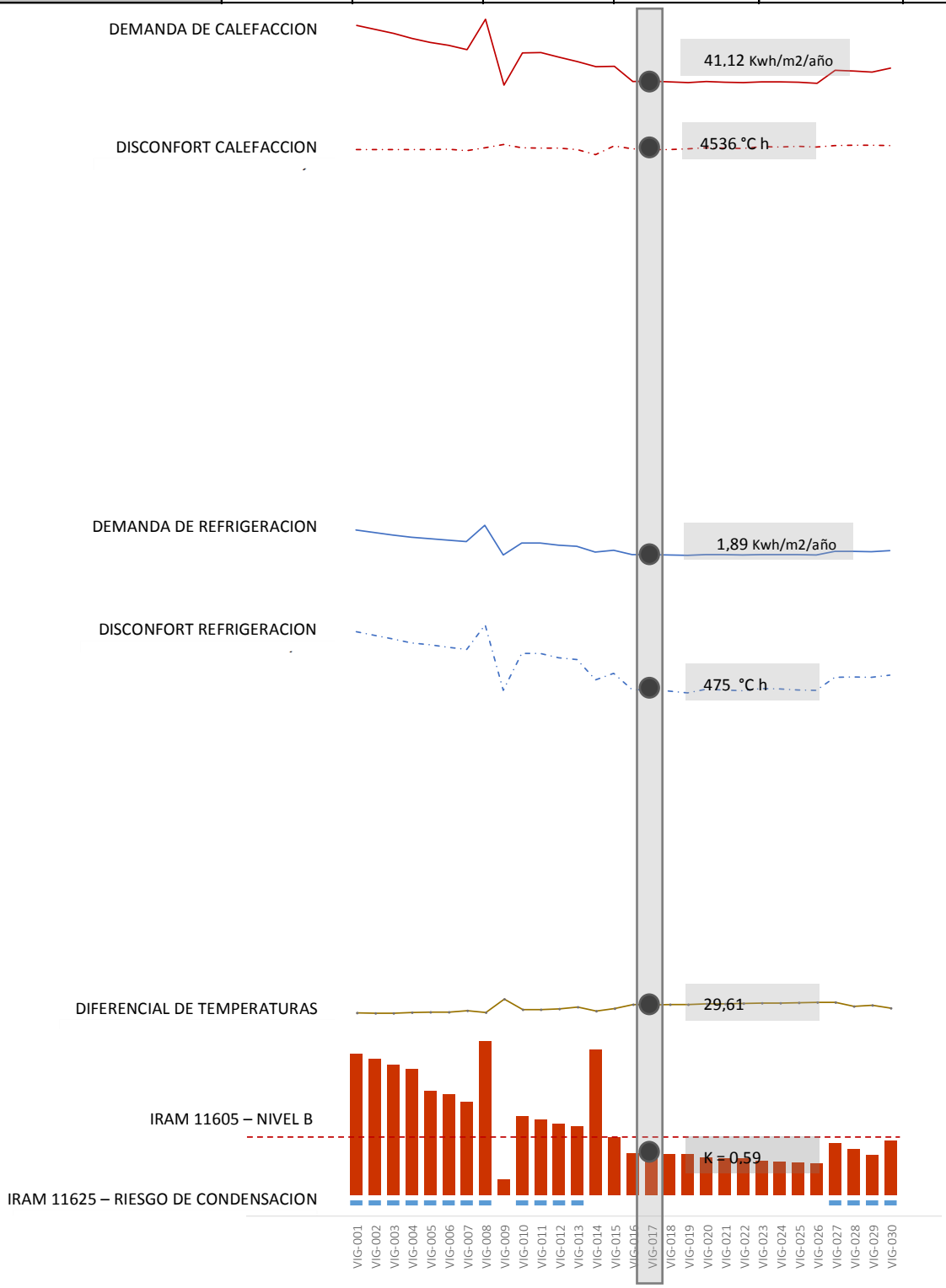



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **66,04** | kWh | 1,89 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.439,11** | kWh | 41,12 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.505,14** | kWh | **43,00** | kWh/m2/año |

| VIG-017 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 074 | N° 075 | N° 044 | N° 030 | N° 020 | N° 030 |



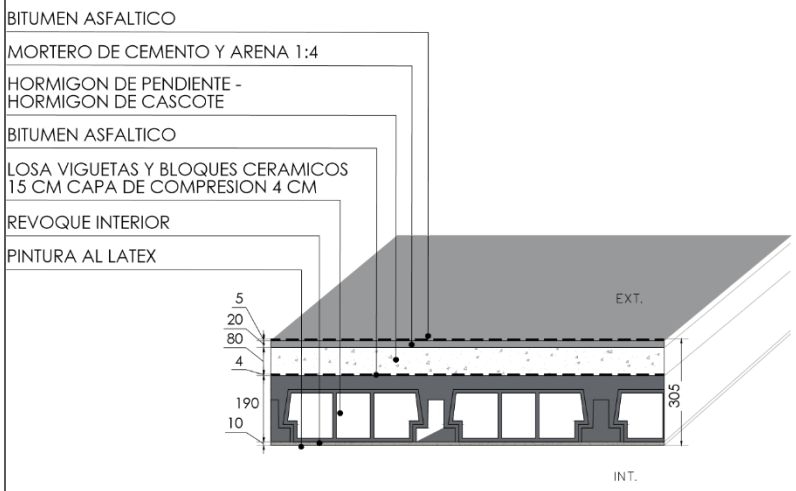

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,59 | 0% | 29,61 | 41,12 | 1,89 | 4536 | 475 |
| INC. FAMILIA | 58,84% | 0% | 101,32% | 88,21% | 45,27% | 99,60% | 64,79% |
| INC. MUNDIAL | 72,84% | 0% | 99,70% | 92,45% | 45,95% | 99,45% | 75,20% |

| VIG-018 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS Y BLOQUES CEMENTO ARENA H 15 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

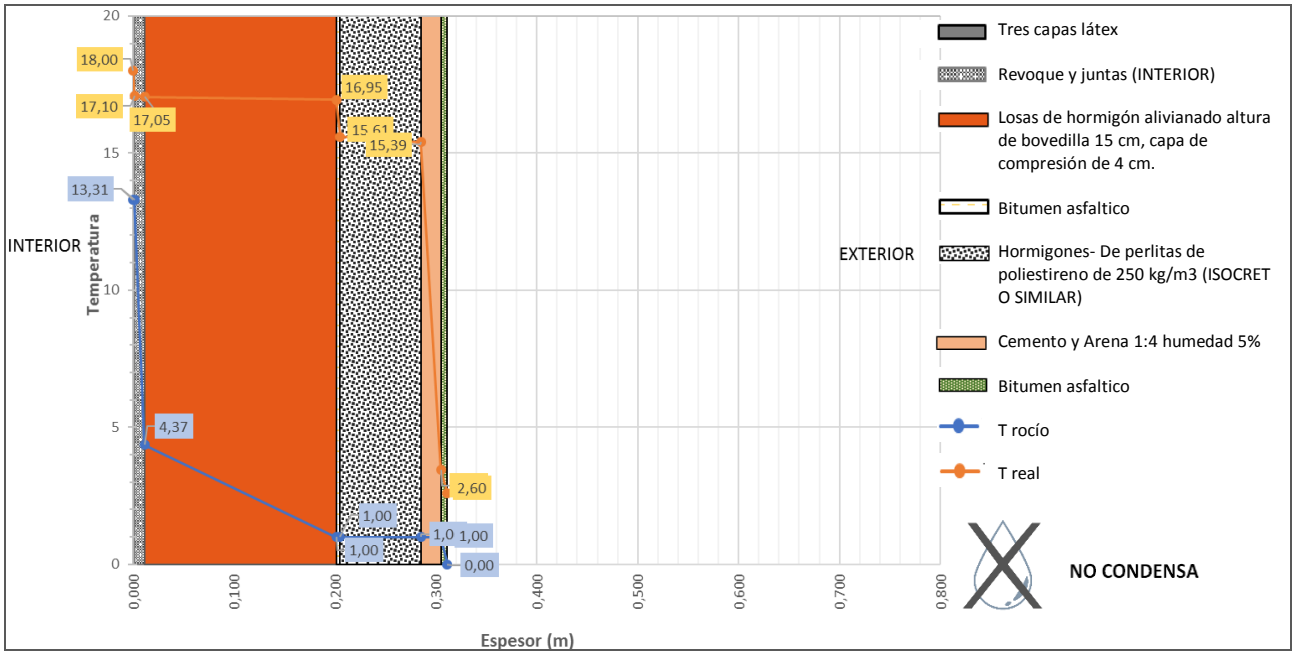
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,56 | 0,58 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



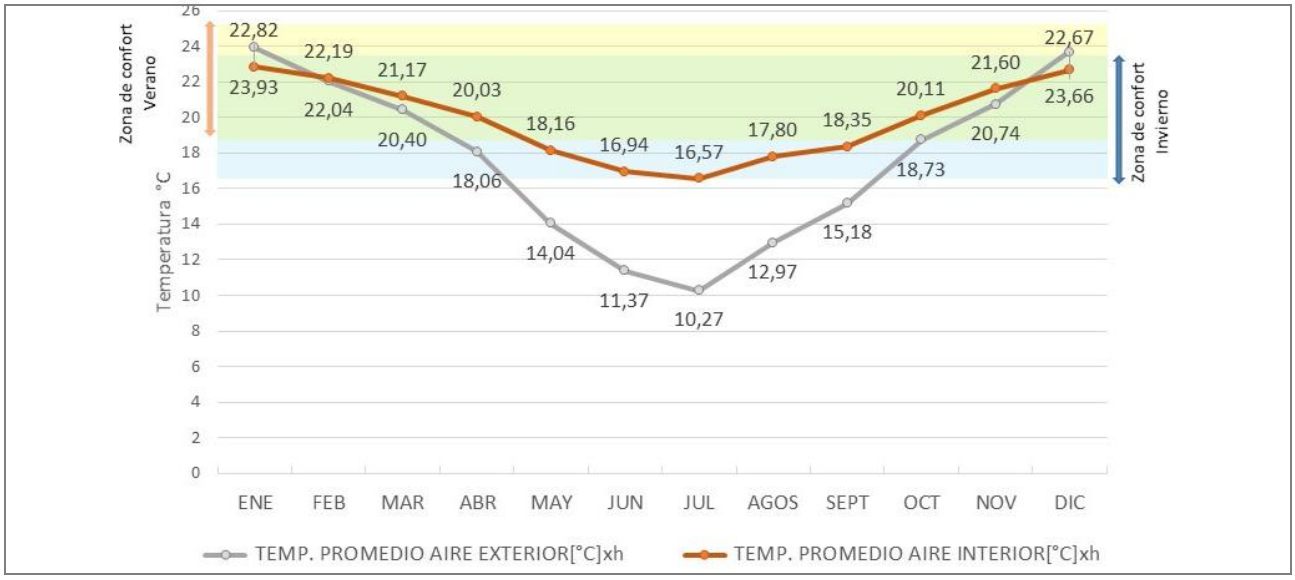

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 13,3 | 11,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,9** | **7,5** |
| | **Amortiguamiento:** | 0,053 | 0,062 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,5** | **4,7** |
| | **Amortiguamiento:** | 0,181 | 0,290 |

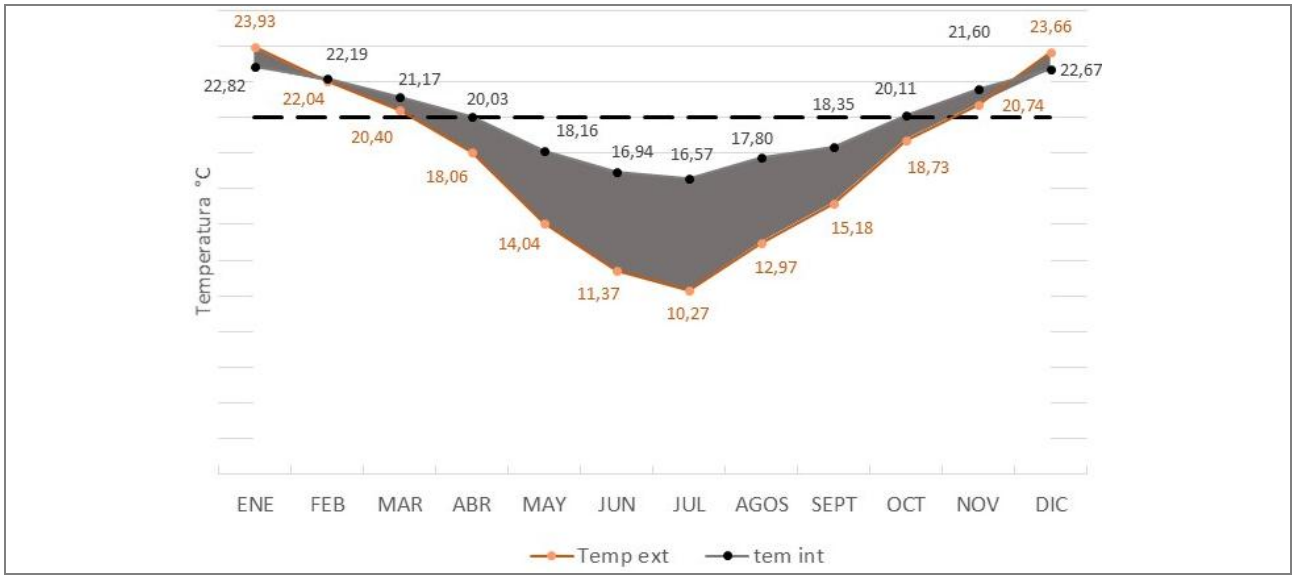
| VIG-018 | CU | LOSAS VIGUETAS |
|---|---|---|

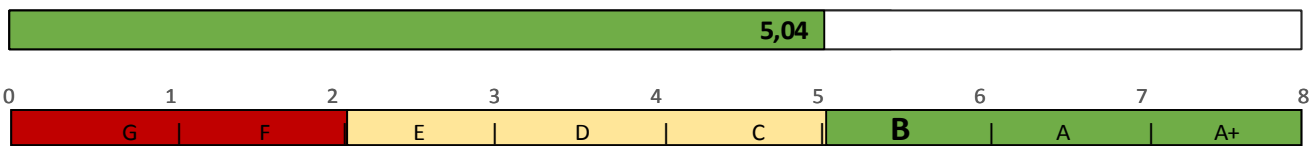
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,66** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,41** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



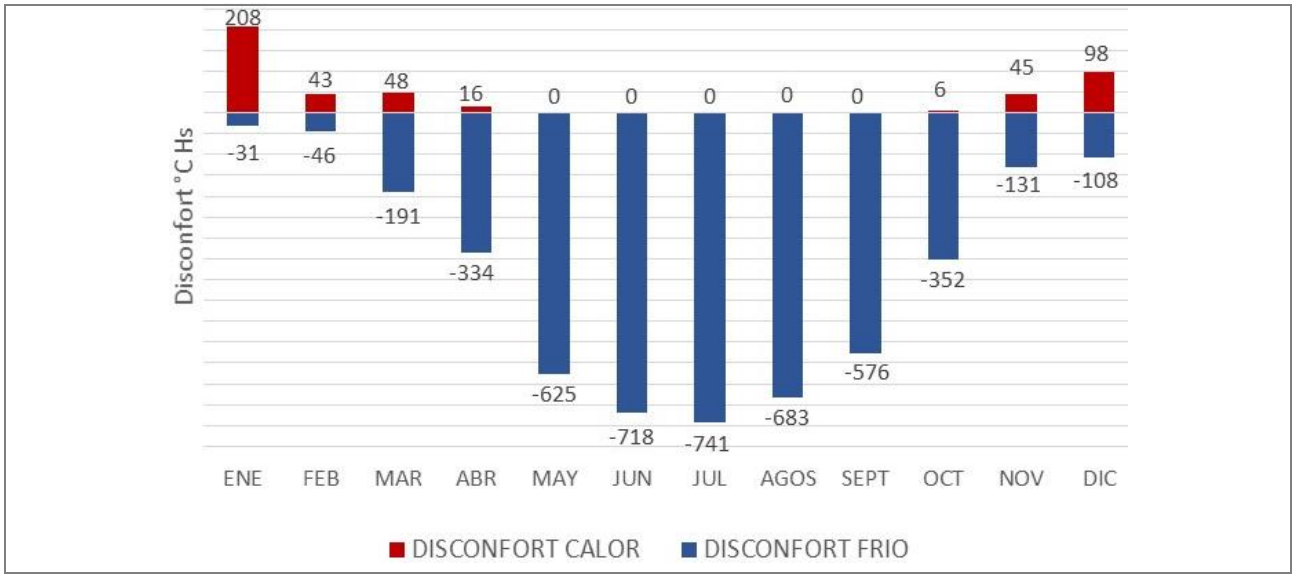




5,04 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| VIG-018 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

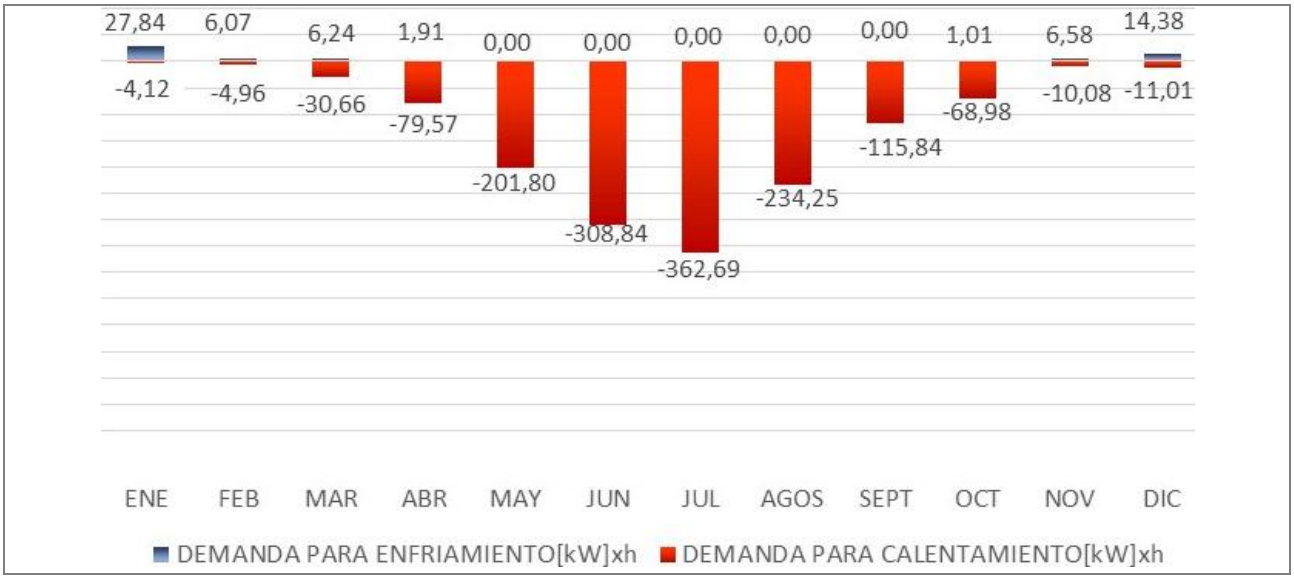
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **464** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRIO | **4.538** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.002** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

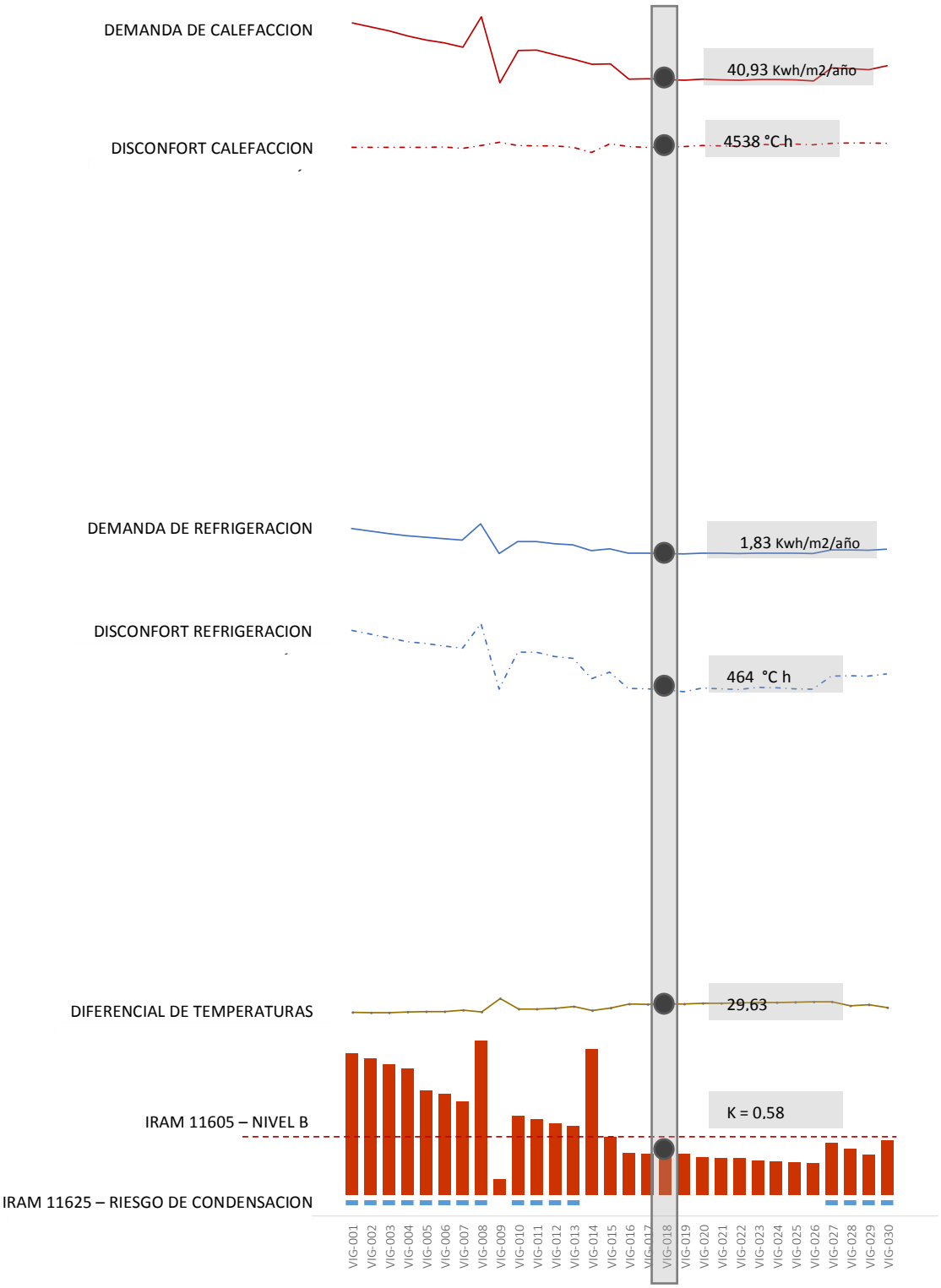



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **64,03** | kWh | 1,83 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.432,81** | kWh | 40,93 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.496,84** | kWh | **42,77** | kWh/m2/año |

| VIG-018 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 070 | N° 073 | N° 038 | N° 025 | N° 025 | N° 026 |



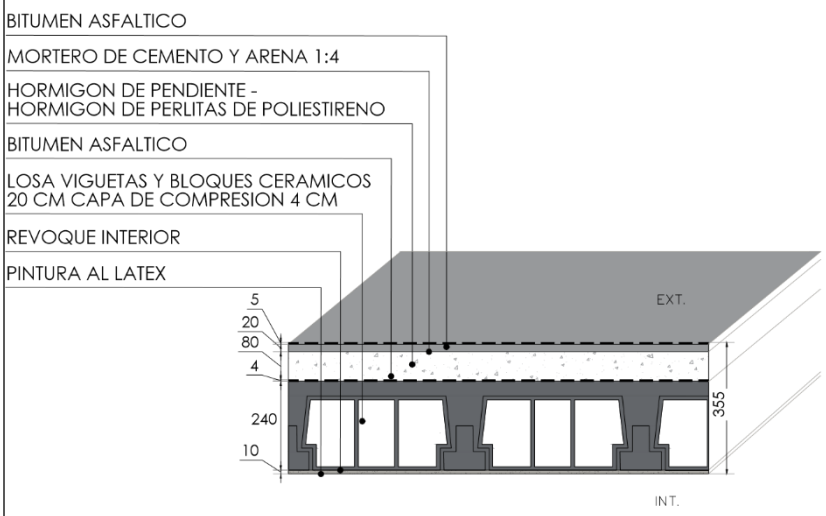

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,58 | 0% | 29,63 | 40,93 | 1,83 | 4538 | 464 |
| INC. FAMILIA | 57,85% | 0% | 101,38% | 87,80% | 43,83% | 99,64% | 63,29% |
| INC. MUNDIAL | 71,60% | 0% | 99,77% | 92,02% | 44,49% | 99,50% | 73,46% |

| VIG-019 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS Y BLOQUES CEMENTO ARENA H 20 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

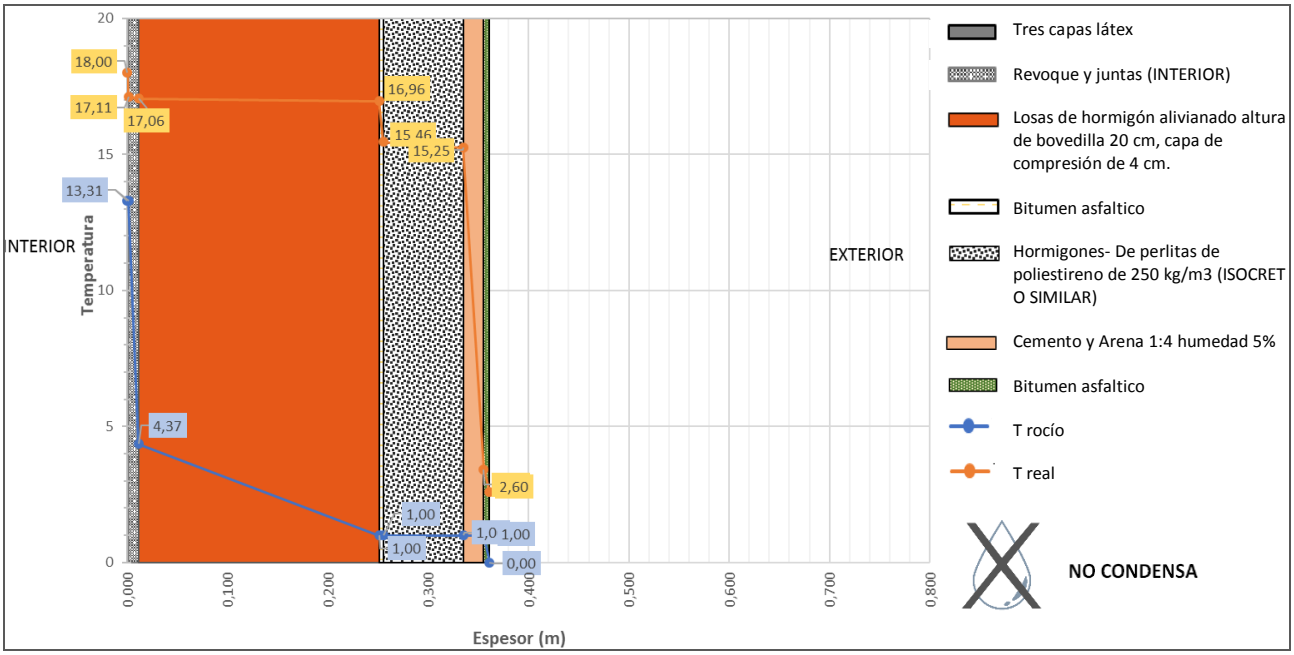
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,55 | 0,58 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 13,1 | 11,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,0** | **7,6** |
| | **Amortiguamiento:** | 0,052 | 0,061 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,6** | **4,7** |
| | **Amortiguamiento:** | 0,179 | 0,289 |

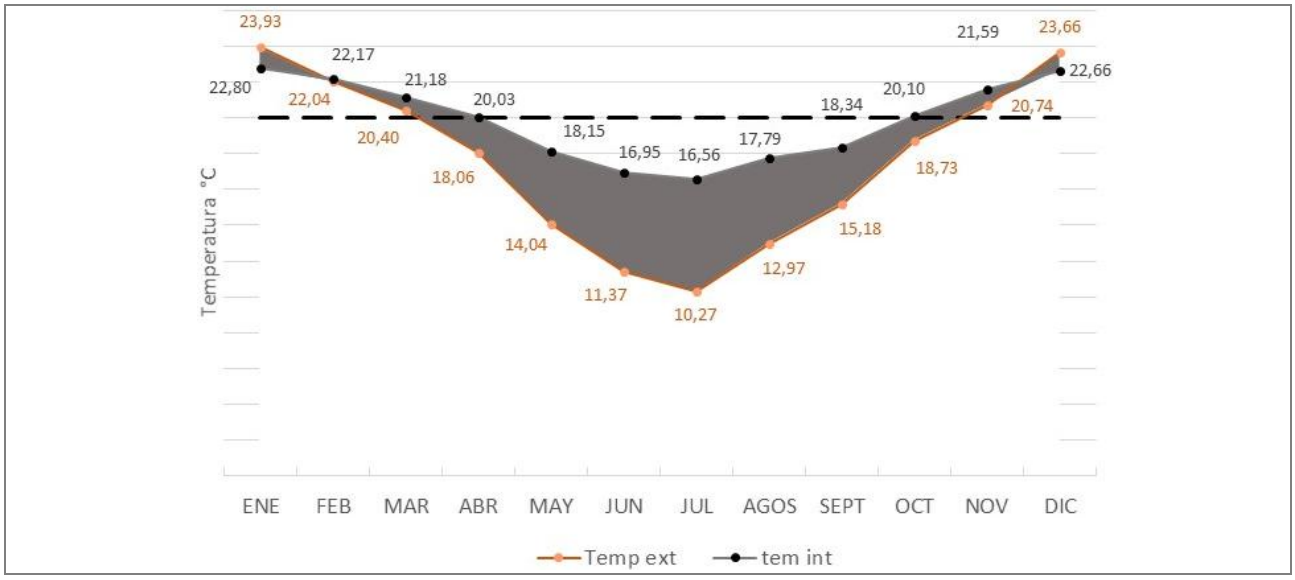
| VIG-019 | CU | LOSAS VIGUETAS |
|---|---|---|

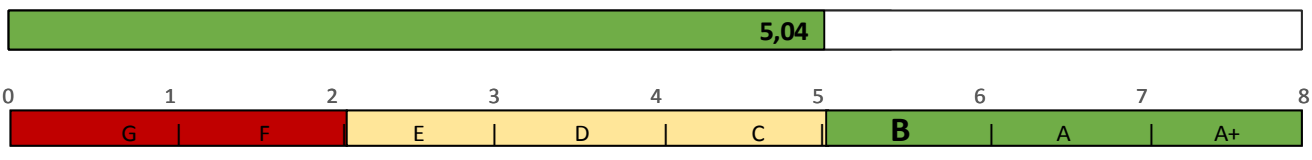
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,57** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,45** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



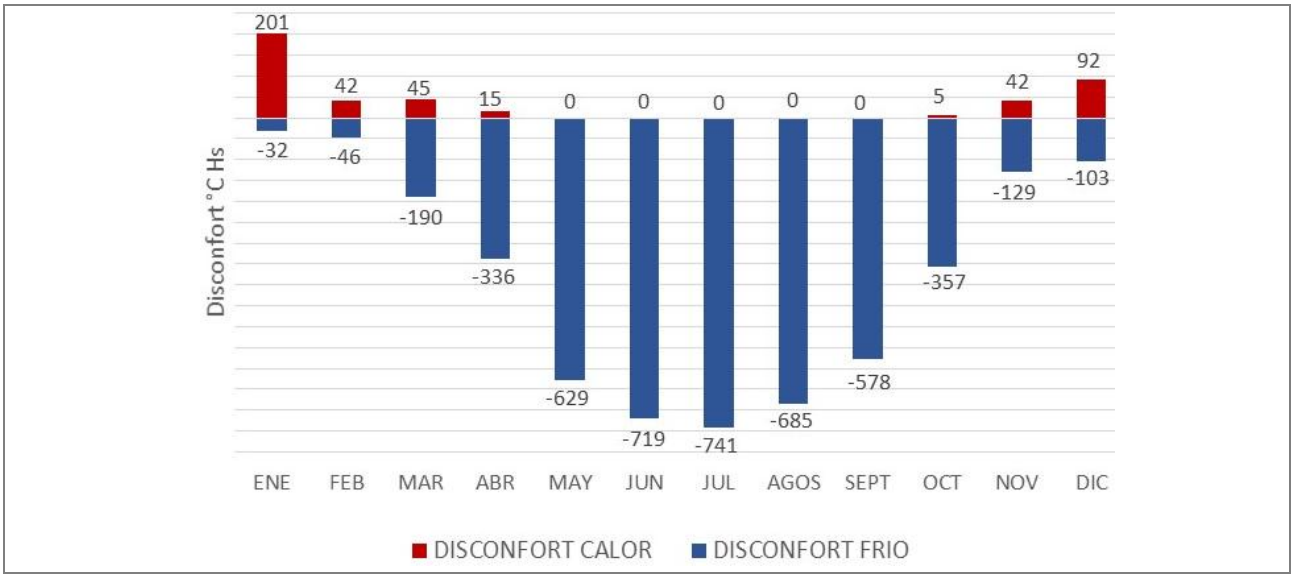




5,04 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| VIG-019 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

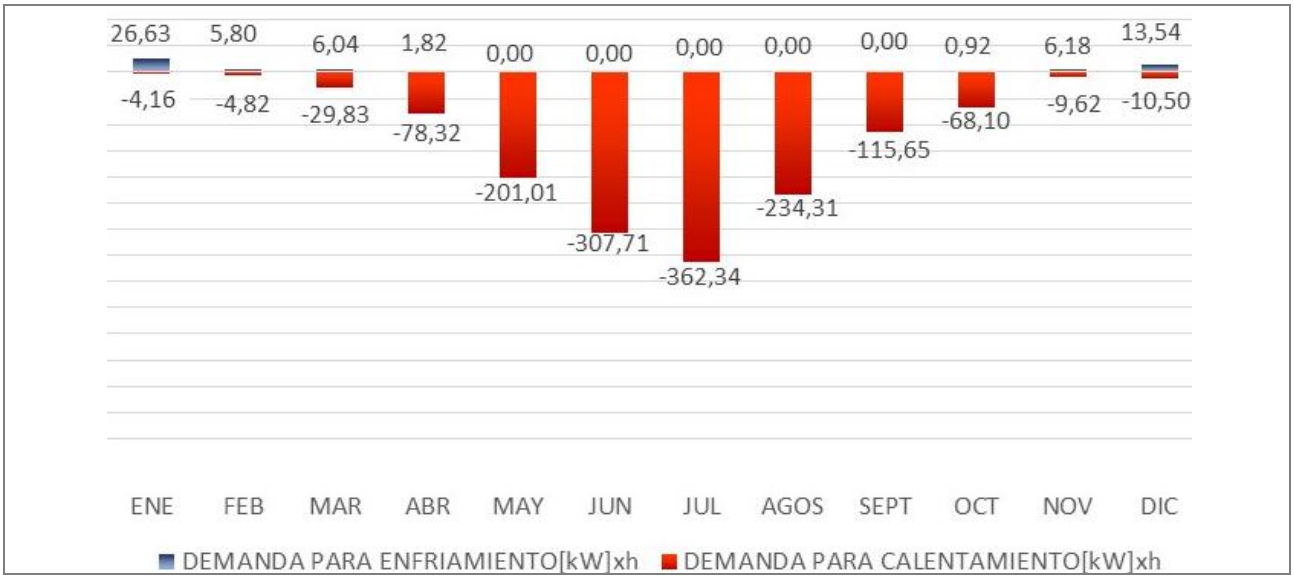
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **442** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRIO | **4.547** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.989** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

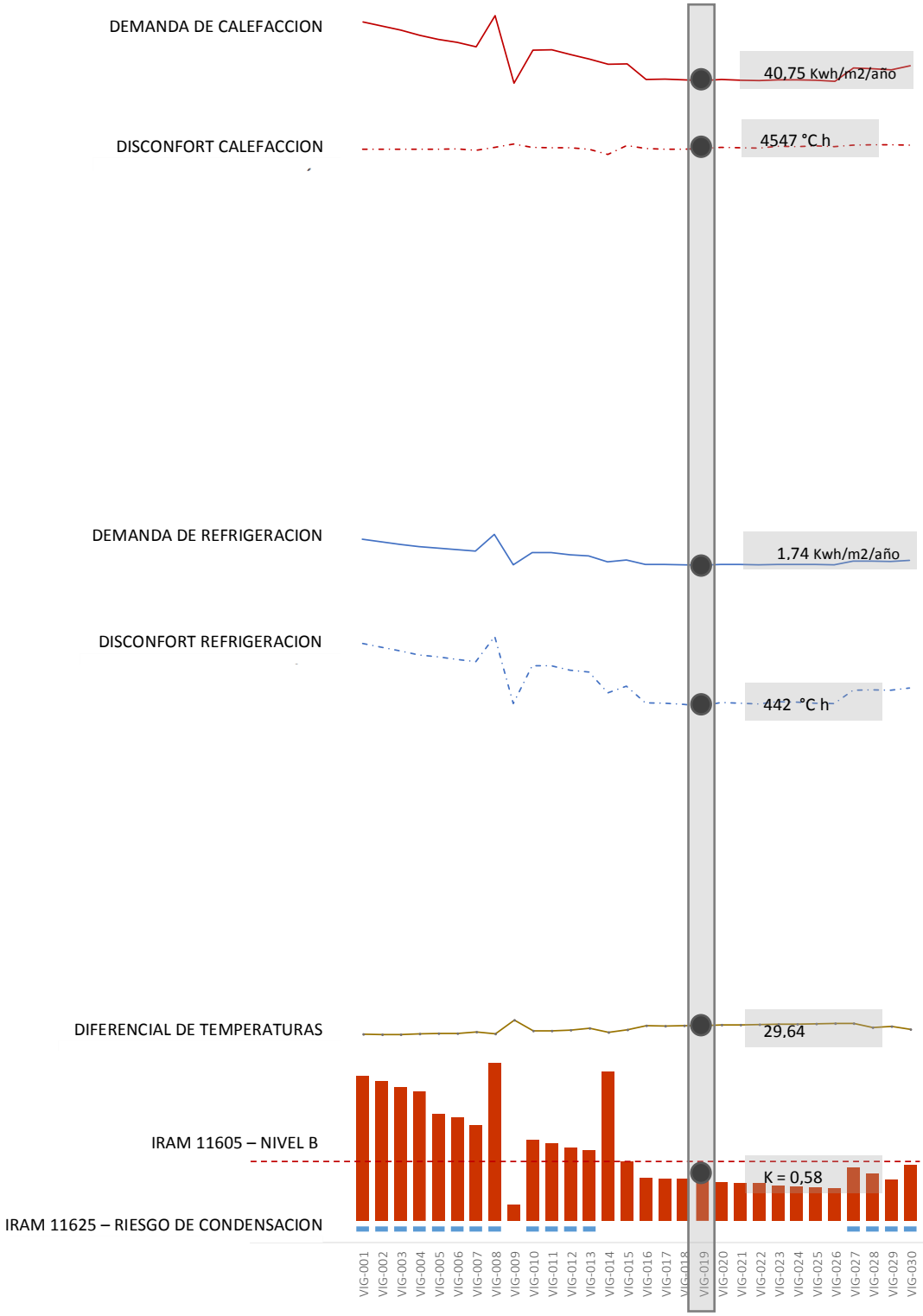



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **60,93** | kWh | 1,74 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.426,36** | kWh | 40,75 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.487,29** | kWh | **42,49** | kWh/m2/año |

| VIG-019 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 071 | N° 069 | N° 034 | N° 020 | N° 033 | N° 020 |



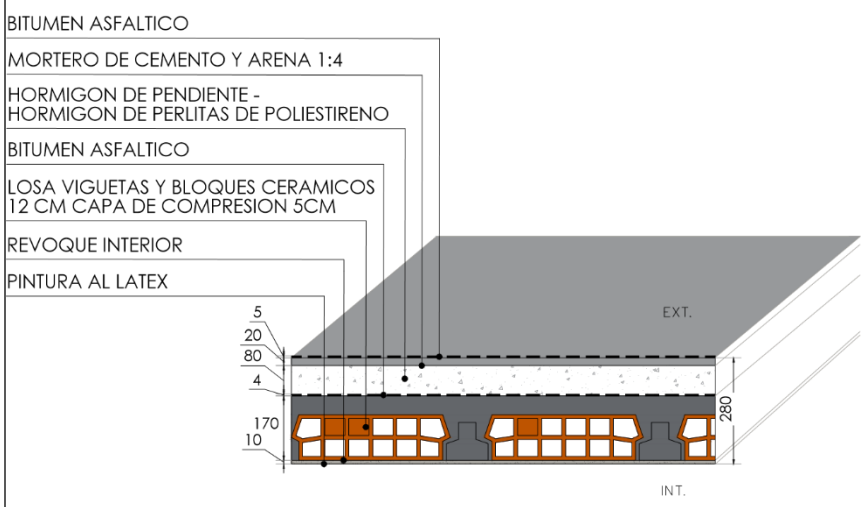

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,58 | 0% | 29,64 | 40,75 | 1,74 | 4547 | 442 |
| INC. FAMILIA | 57,85% | 0% | 101,42% | 87,41% | 41,67% | 99,84% | 60,29% |
| INC. MUNDIAL | 71,60% | 0% | 99,80% | 91,62% | 42,30% | 99,69% | 69,97% |

| VIG-020 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS Y BLOQUES CERAMICOS H 12 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

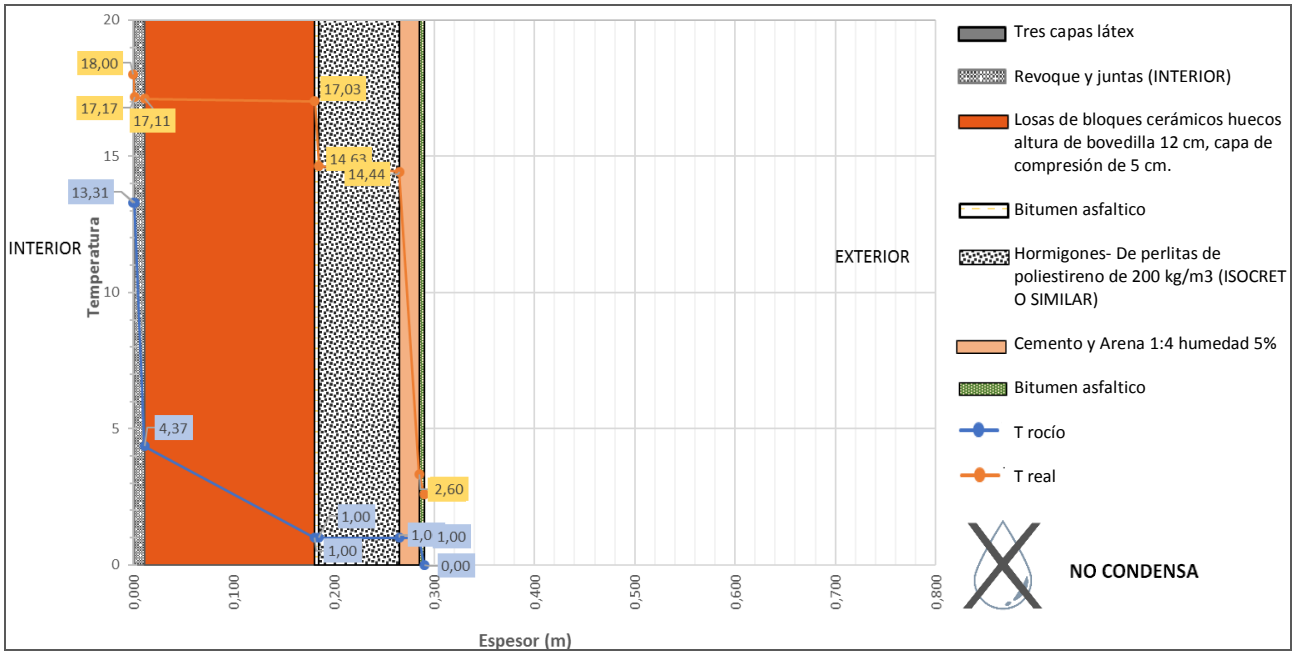
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,52 | 0,54 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 12,0 | Invierno 11,0 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,2** | **7,8** |
| | **Amortiguamiento:** | 0,048 | 0,055 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,7** | **4,8** |
| | **Amortiguamiento:** | 0,171 | 0,285 |

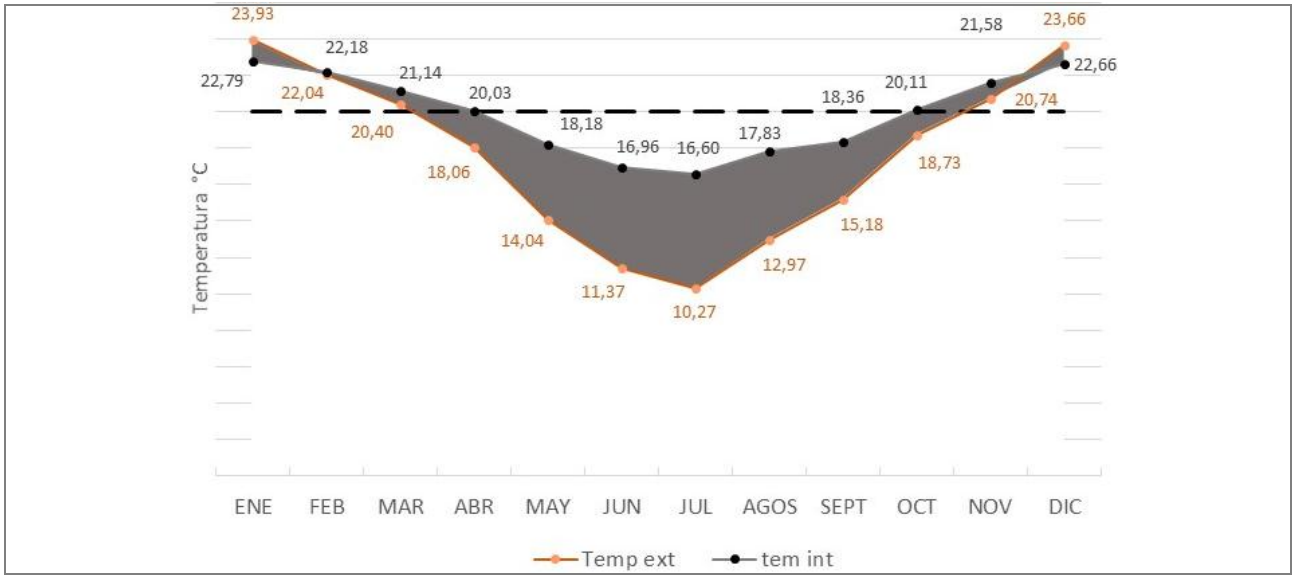
| VIG-020 | CU | LOSAS VIGUETAS |
|---|---|---|

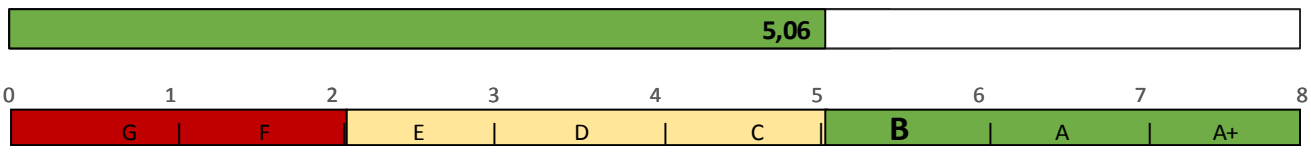
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,79** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,35** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



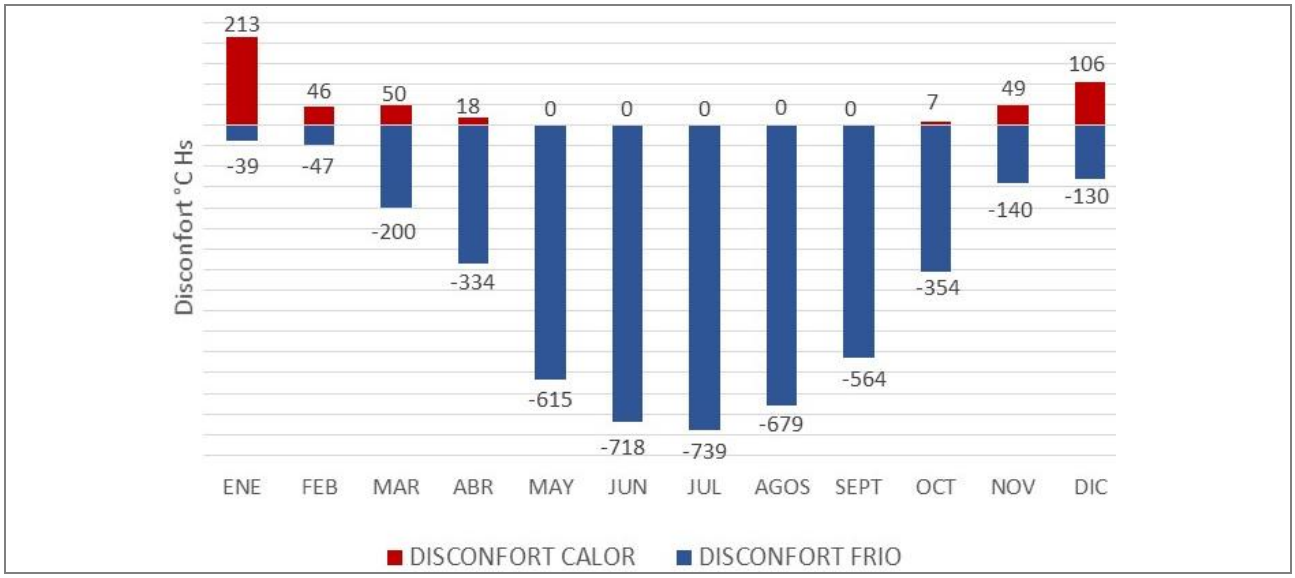




5,06 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| VIG-020 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

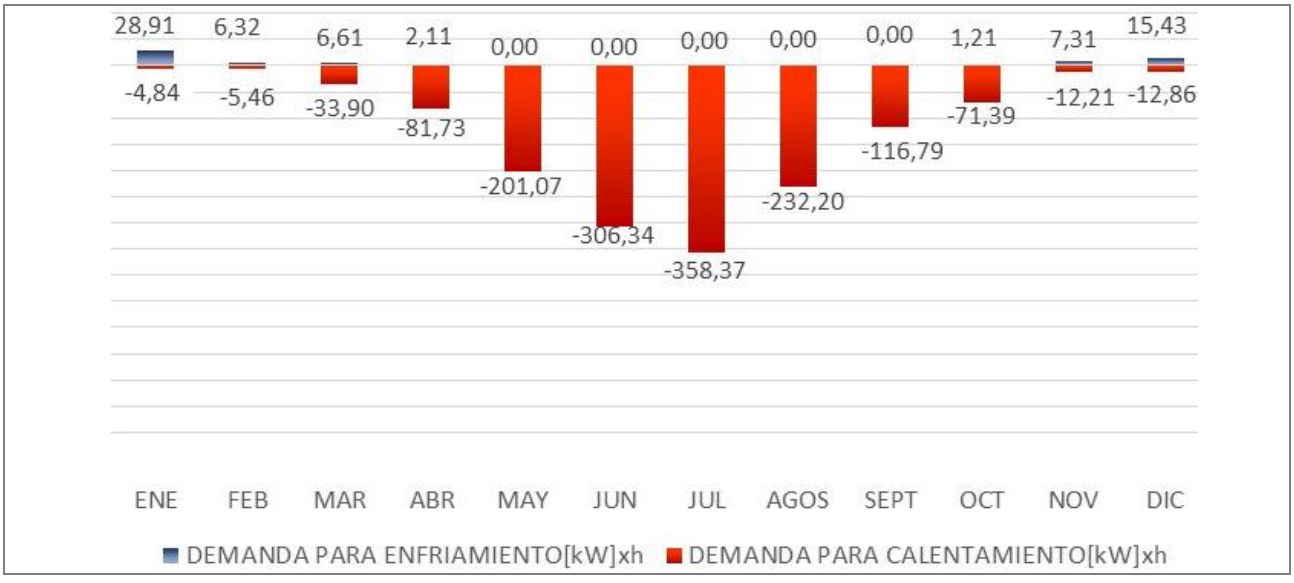
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **488** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRIO | **4.558** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.046** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

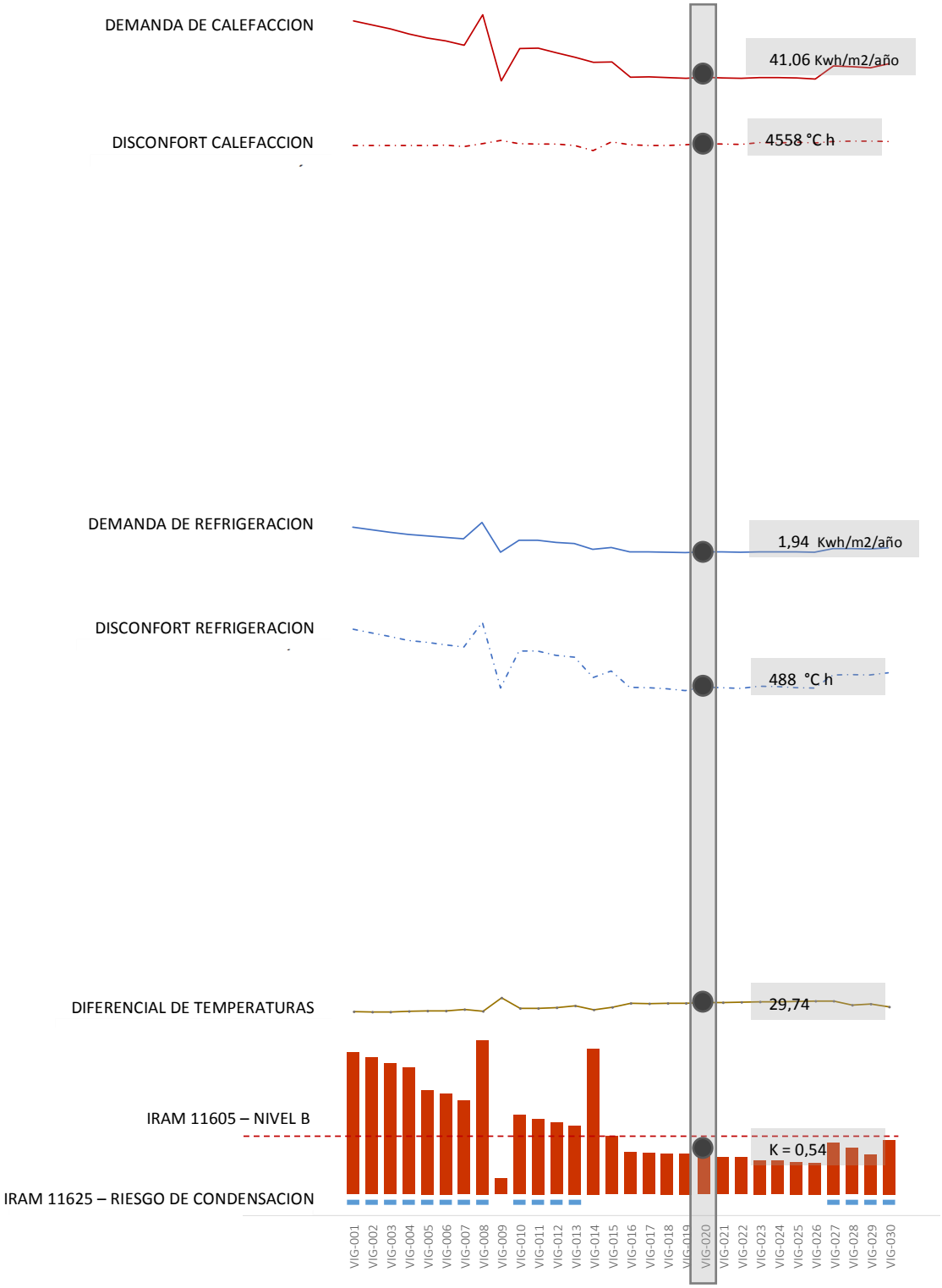



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **67,90** | kWh | 1,94 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.437,15** | kWh | 41,06 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.505,05** | kWh | **43,00** | kWh/m2/año |

| VIG-020 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 067 | N° 066 | N° 042 | N° 037 | N° 044 | N° 040 |



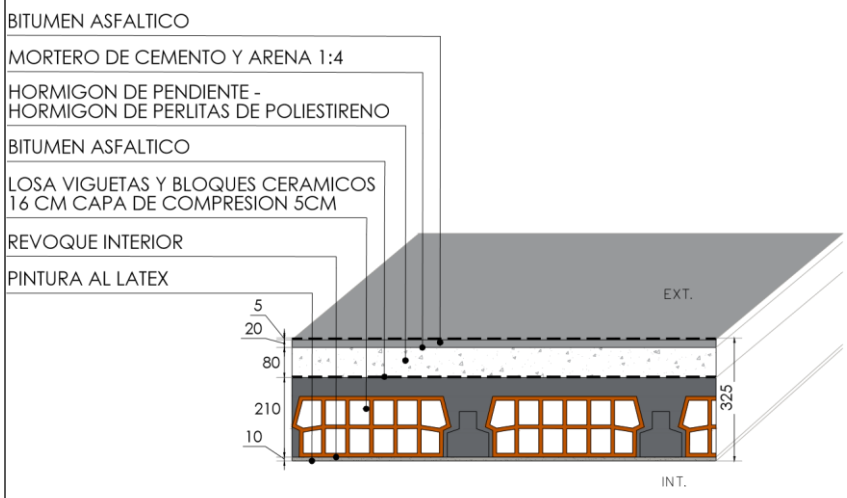

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,54 | 0% | 29,74 | 41,06 | 1,94 | 4558 | 488 |
| INC. FAMILIA | 53,86% | 0% | 101,76% | 88,08% | 46,46% | 100,08% | 66,56% |
| INC. MUNDIAL | 66,67% | 0% | 100,14% | 92,32% | 47,16% | 99,94% | 77,26% |

| VIG-021 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS Y BLOQUES CERAMICOS H 16 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

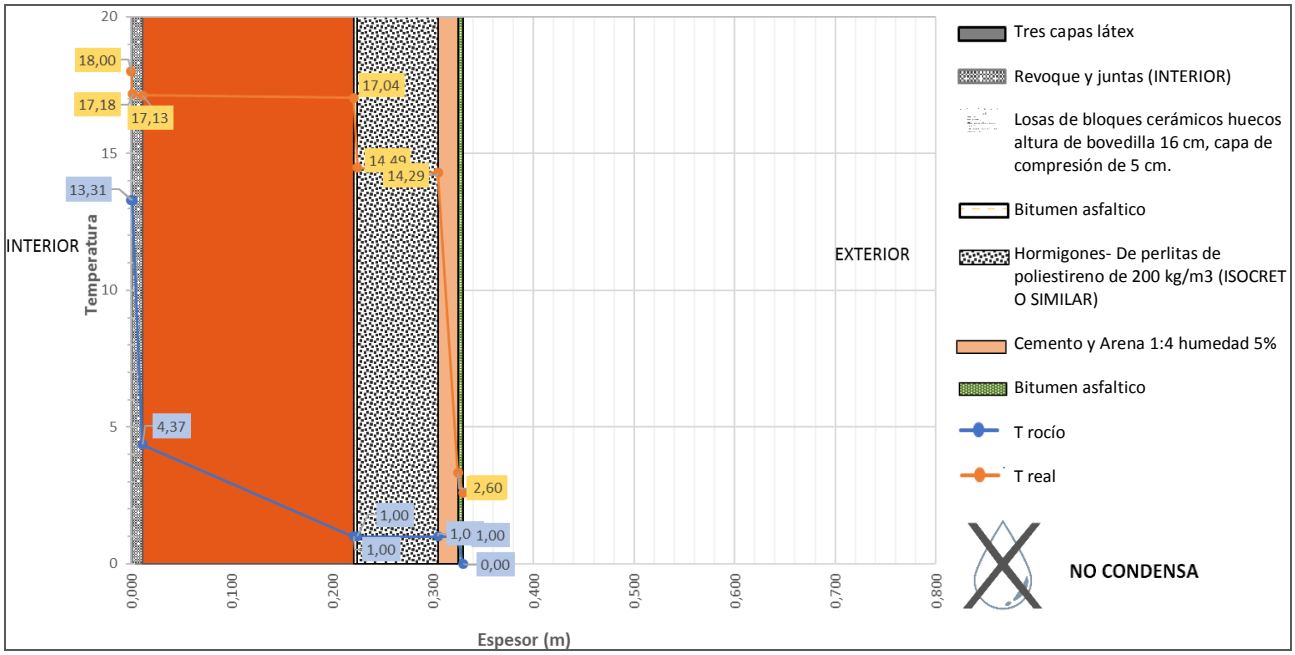
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,52 | 0,53 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 11,9 | 10,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,2** | **7,9** |
| | **Amortiguamiento:** | 0,047 | 0,054 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,8** | **4,8** |
| | **Amortiguamiento:** | 0,169 | 0,284 |

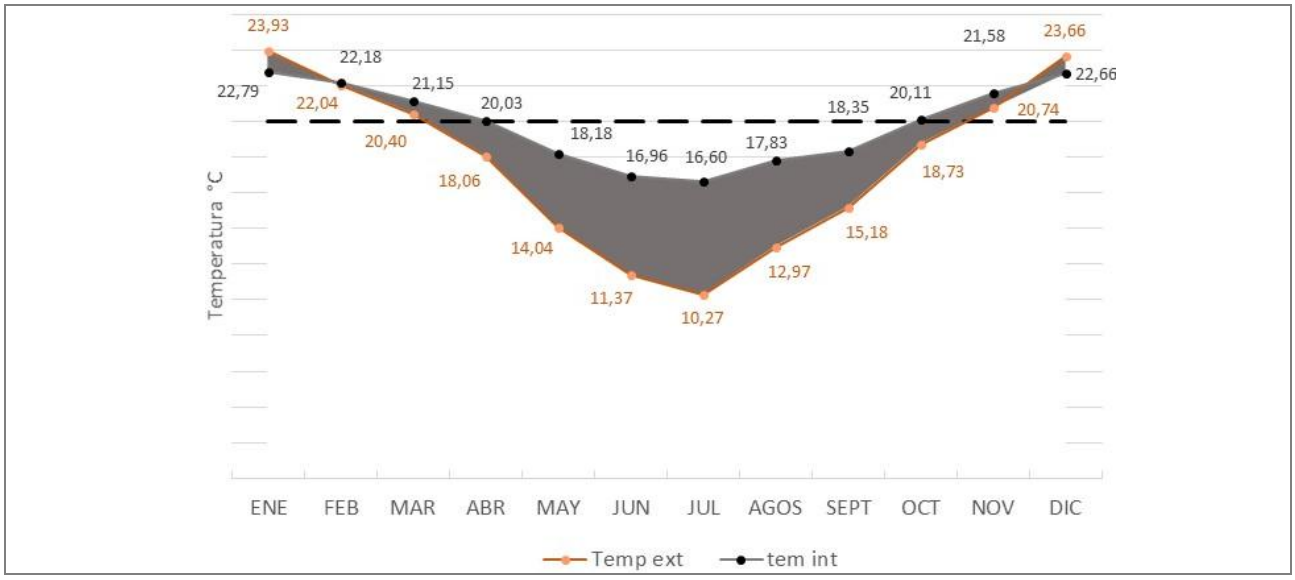
| VIG-021 | CU | LOSAS VIGUETAS |
|---|---|---|

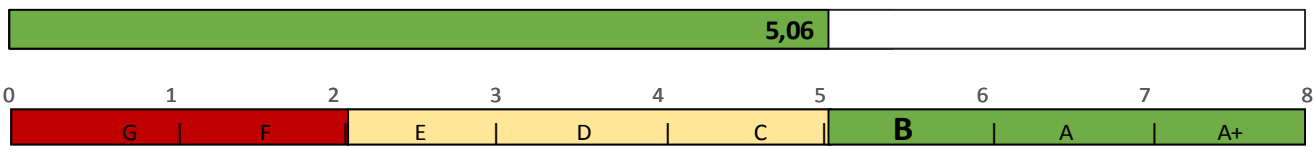
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,72** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,38** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



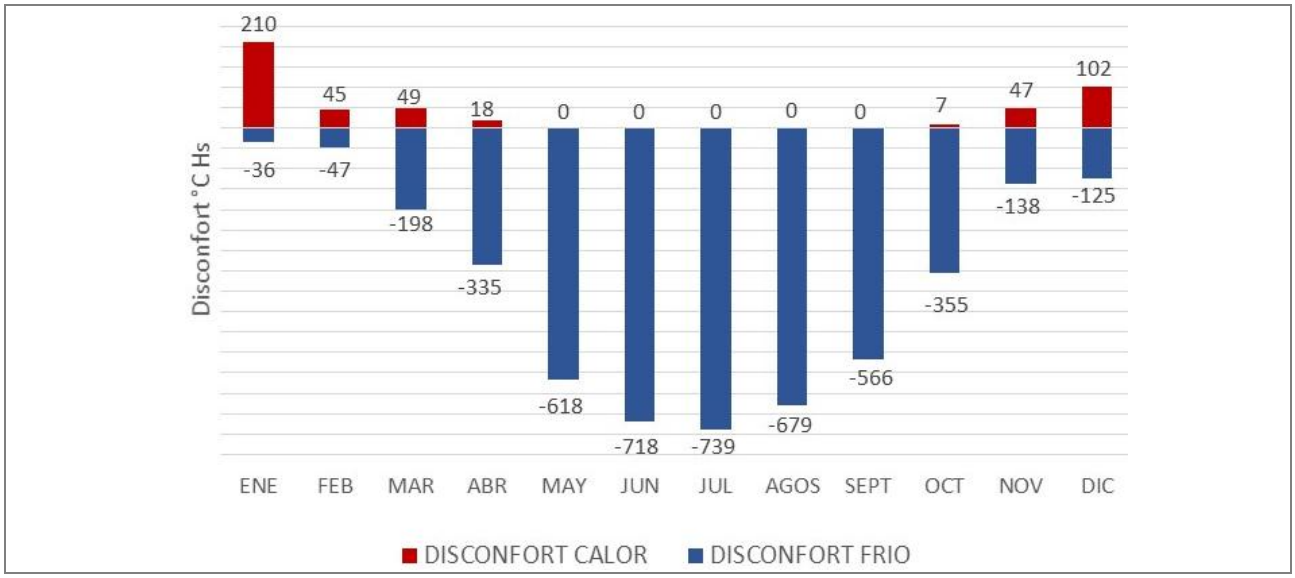




5,06 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| VIG-021 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

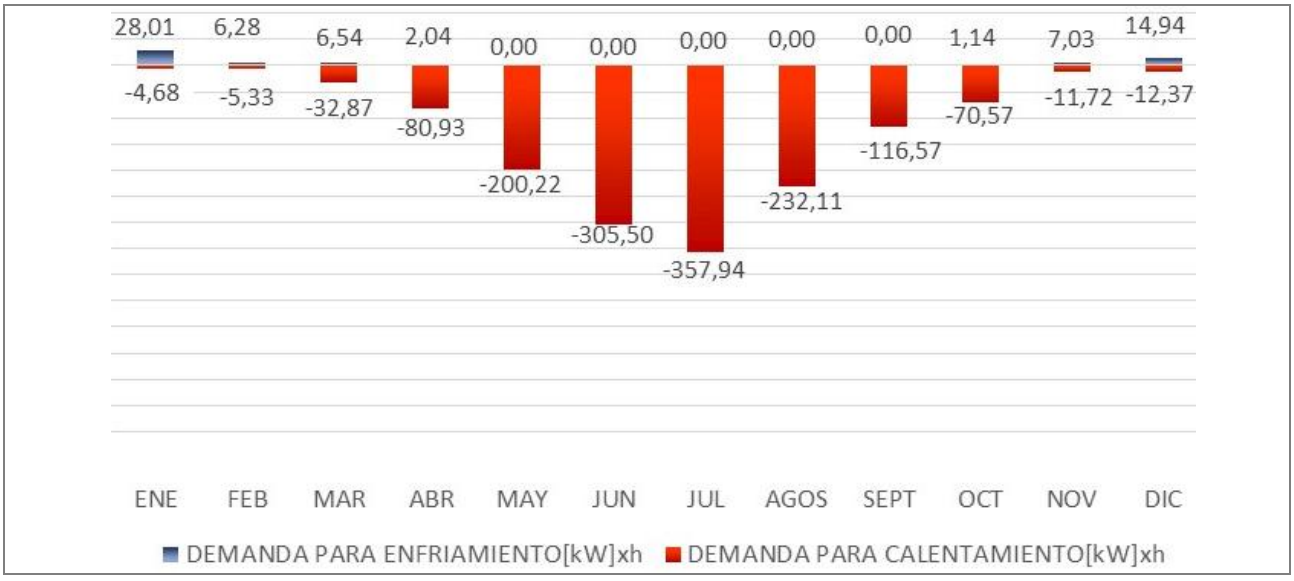
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **477** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRIO | **4.554** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.031** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

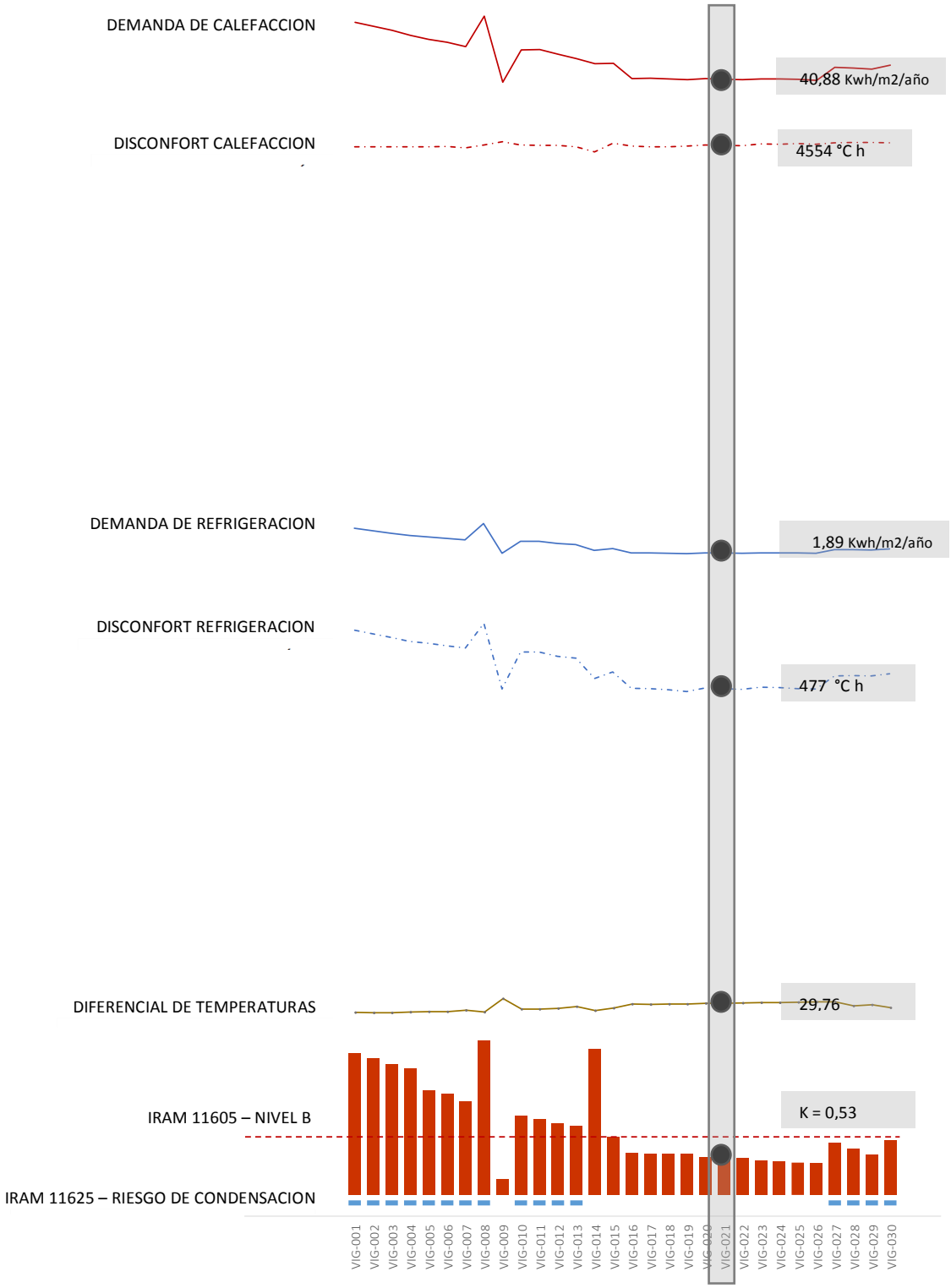



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **65,99** | kWh | 1,89 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.430,82** | kWh | 40,88 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.496,81** | kWh | **42,77** | kWh/m2/año |

| VIG-021 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 065 | N° 064 | N° 037 | N° 031 | N° 040 | N° 032 |



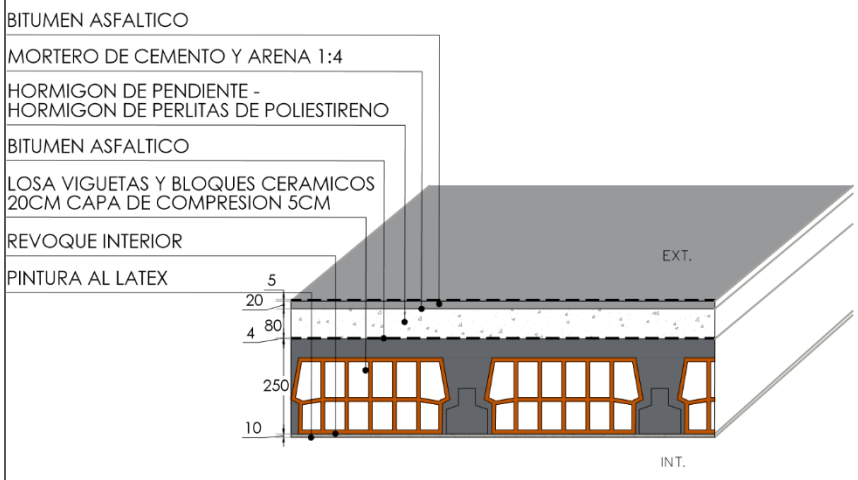

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,53 | 0% | 29,76 | 40,88 | 1,89 | 4554 | 477 |
| INC. FAMILIA | 52,86% | 0% | 101,83% | 87,69% | 45,27% | 99,99% | 65,06% |
| INC. MUNDIAL | 65,43% | 0% | 100,20% | 91,91% | 45,95% | 99,85% | 75,52% |

| VIG-022 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS Y BLOQUES CERAMICOS H 20 CM CON CUBIERTA VIA HUMEDA ALIVIANADA CON PERLAS DE EPS Y TERMINACION CON MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

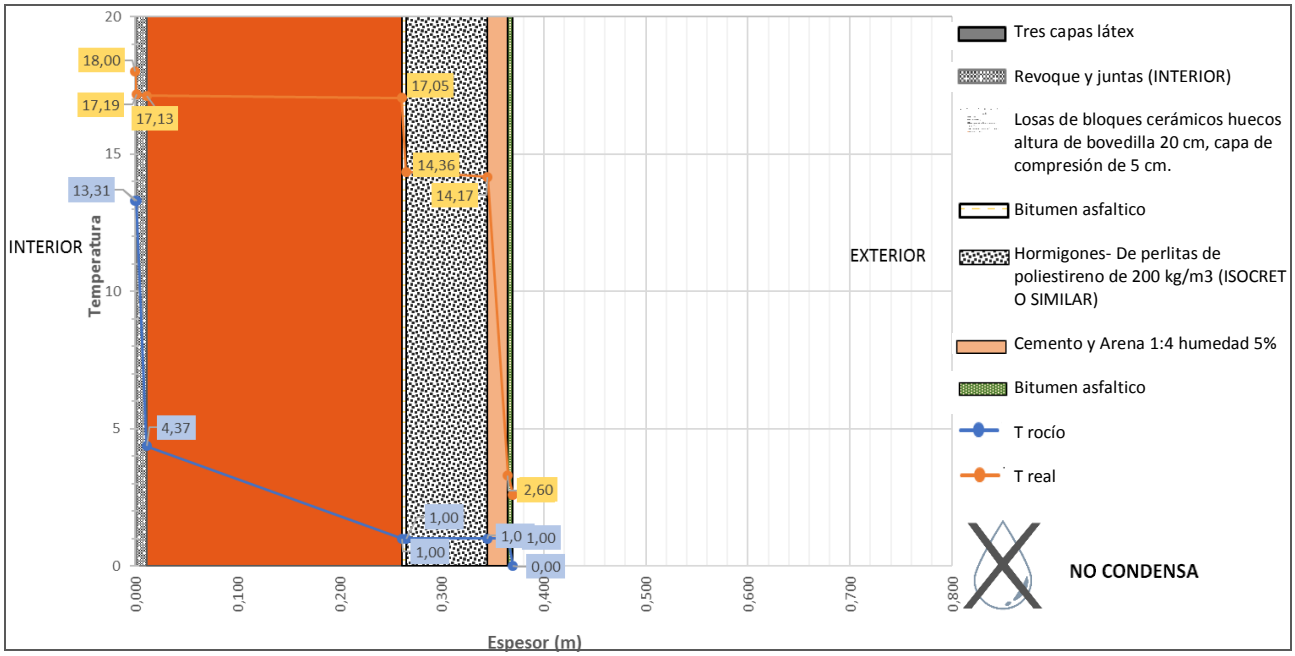
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,51 | 0,53 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



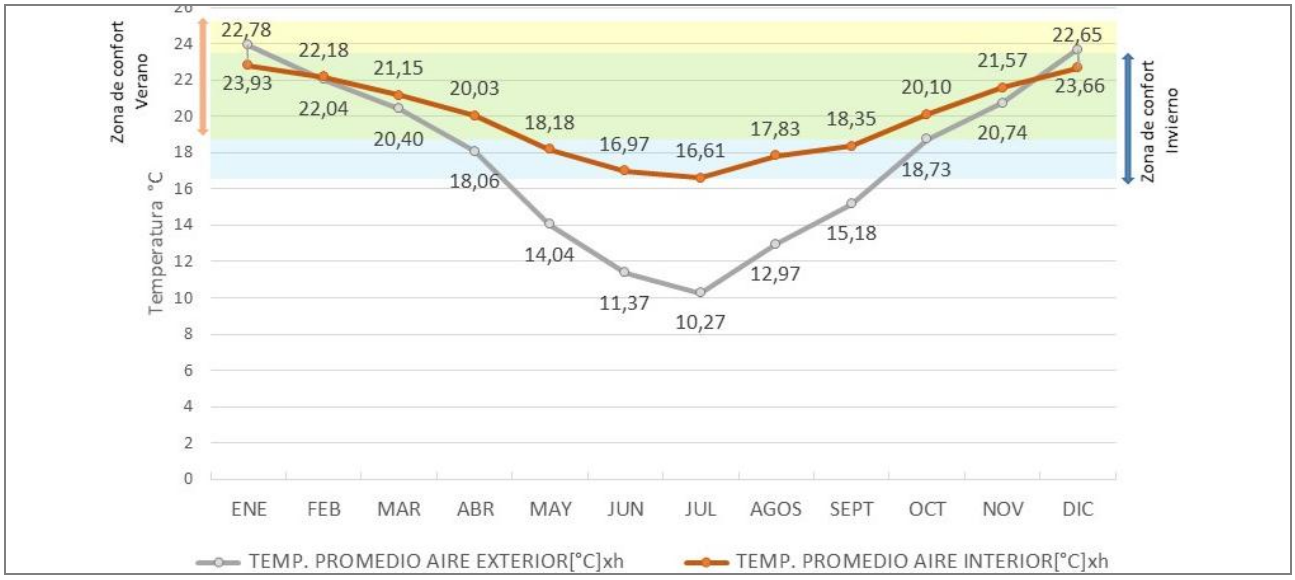

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 11,7 | 10,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,3** | **7,9** |
| | **Amortiguamiento:** | 0,046 | 0,053 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,8** | **4,8** |
| | **Amortiguamiento:** | 0,167 | 0,283 |

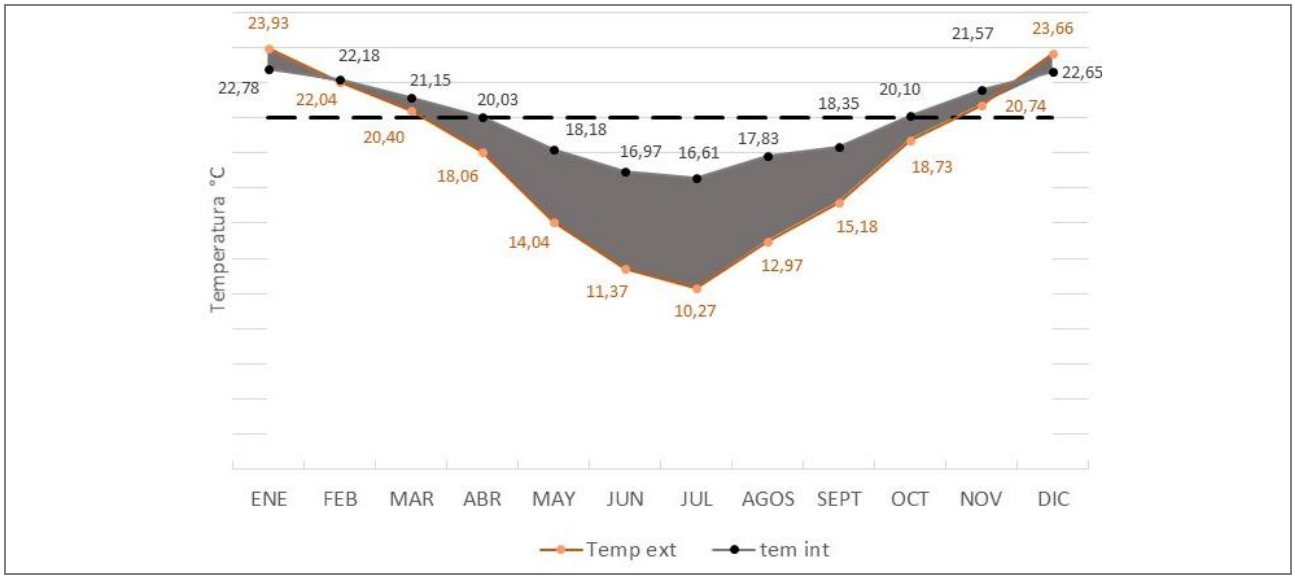
| VIG-022 | CU | LOSAS VIGUETAS |
|---|---|---|

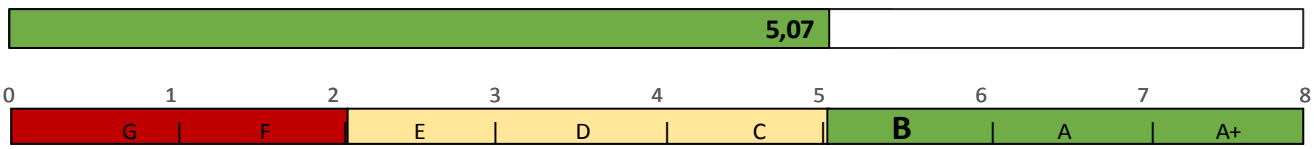
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,67** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,41** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



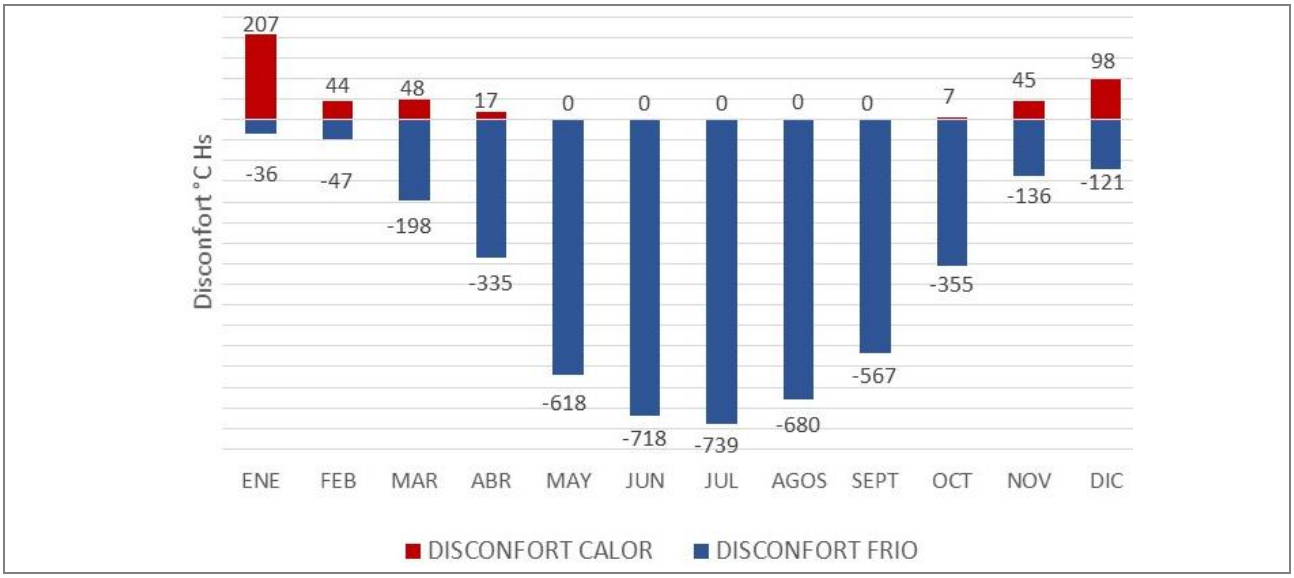




5,07 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| VIG-022 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

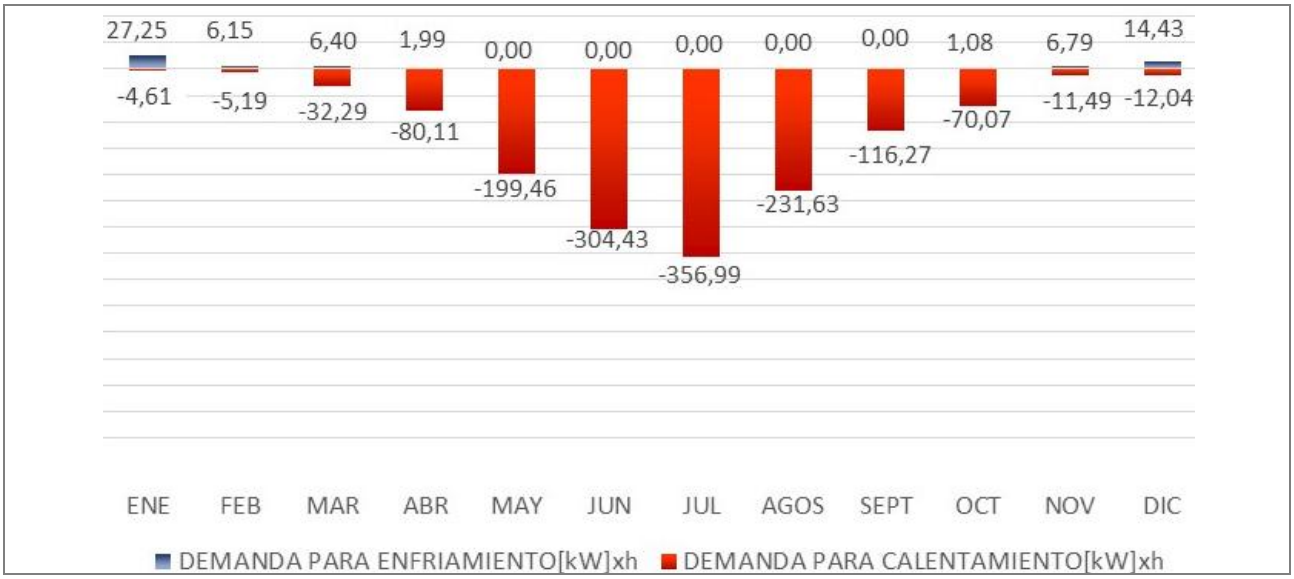
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **466** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRIO | **4.550** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.016** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

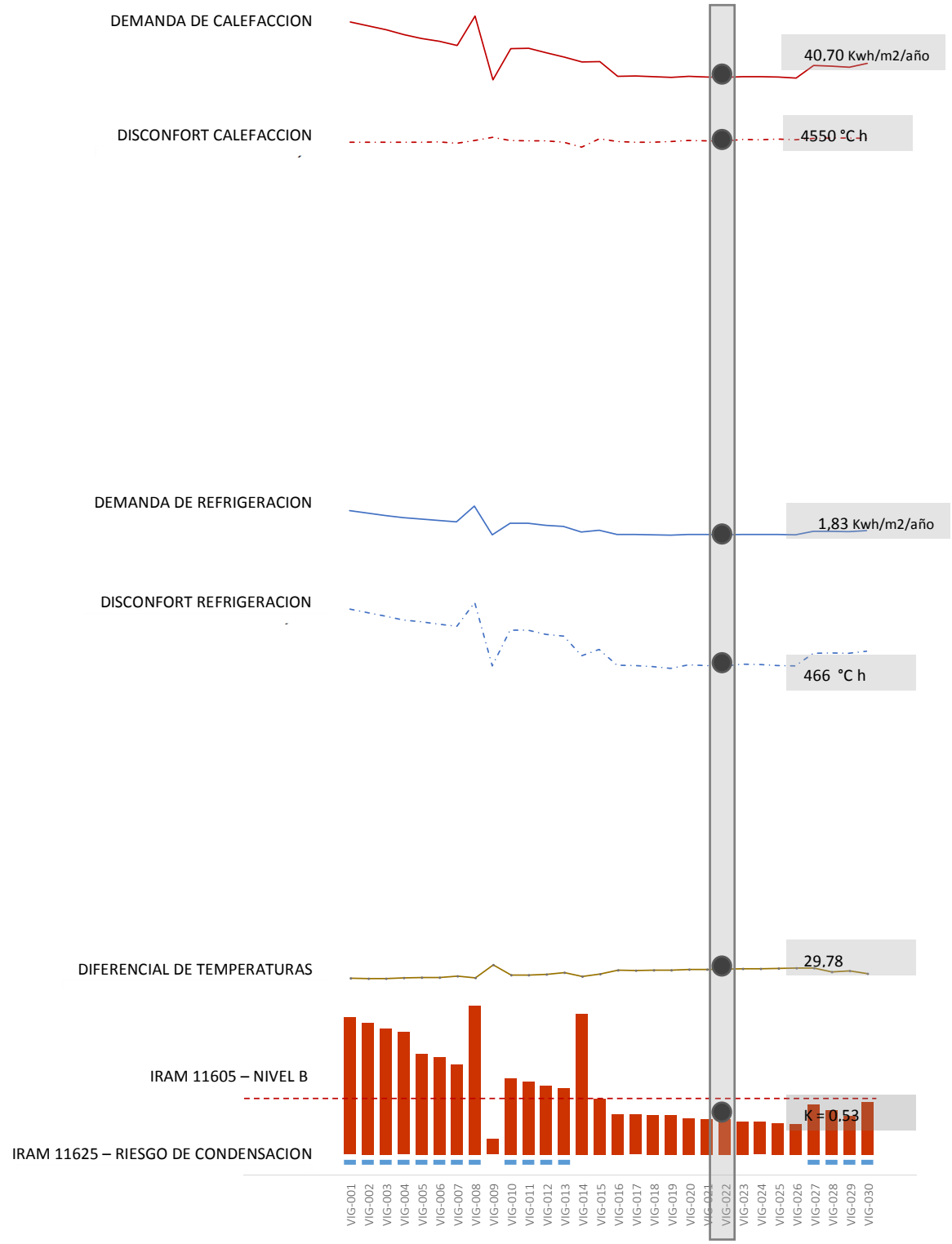



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **64,09** | kWh | 1,83 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.424,57** | kWh | 40,70 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.488,67** | kWh | **42,53** | kWh/m2/año |

| VIG-022 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 066 | N° 061 | N° 033 | N° 026 | N° 037 | N° 027 |



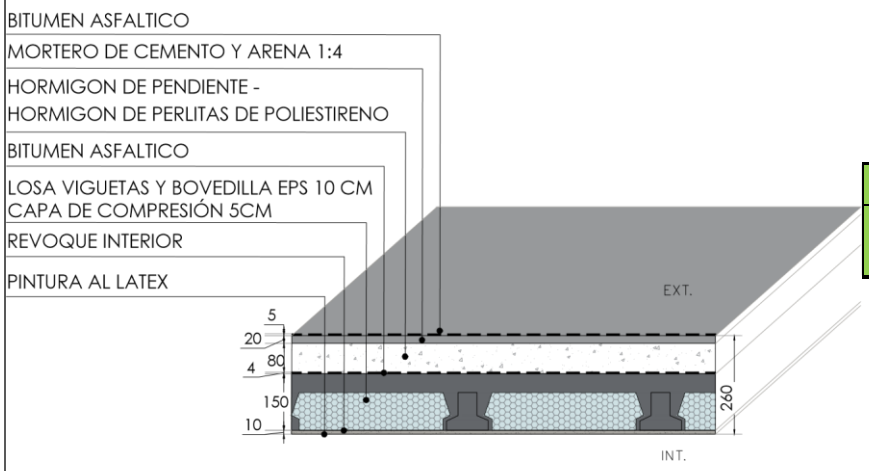

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,53 | 0% | 29,78 | 40,7 | 1,83 | 4550 | 466 |
| INC. FAMILIA | 52,86% | 0% | 101,90% | 87,30% | 43,83% | 99,90% | 63,56% |
| INC. MUNDIAL | 65,43% | 0% | 100,27% | 91,51% | 44,49% | 99,76% | 73,77% |

| VIG-023 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA VIGUETAS Y LADRILLOS EPS h 10 cm ALIV. CUBIERTA CON PERLAS EPS TERMINACION MEMBRANA DE ALUMINIO.

## INDICE DE TRANSMITANCIA TERMICA "K"

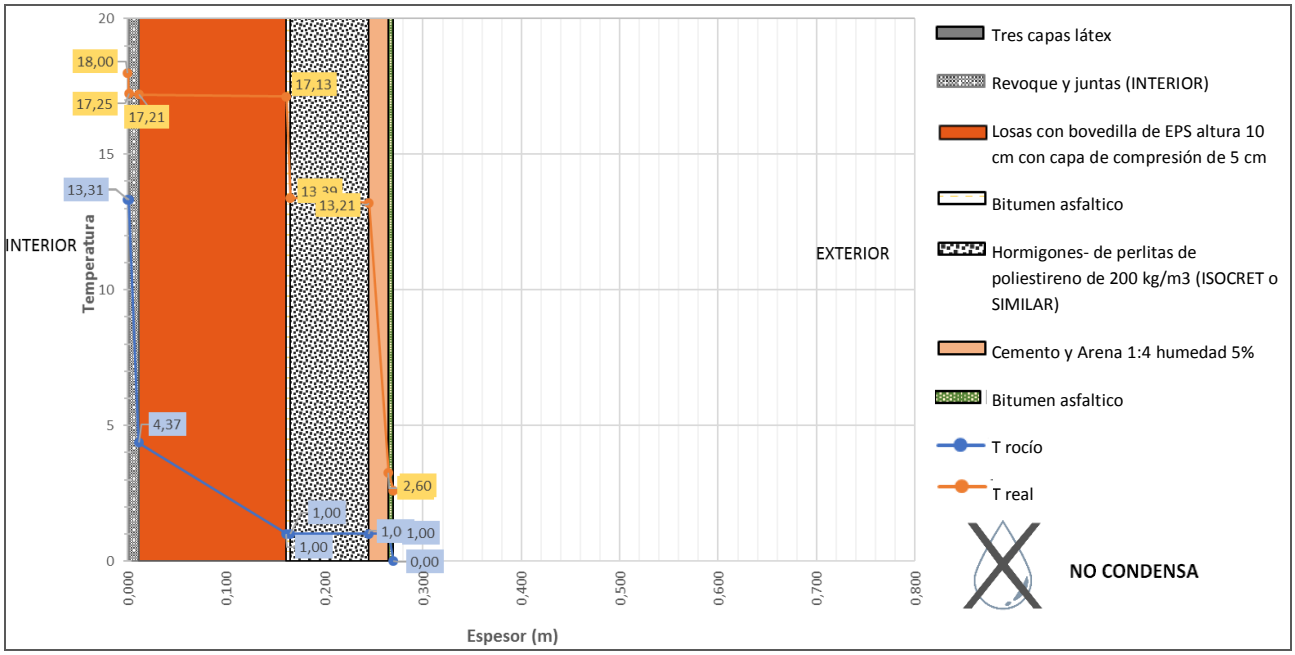
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,47 | 0,49 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 10,7 | 9,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,7** | **8,3** |
| | **Amortiguamiento:** | 0,040 | 0,046 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,2** | **4,9** |
| | **Amortiguamiento:** | 0,152 | 0,274 |

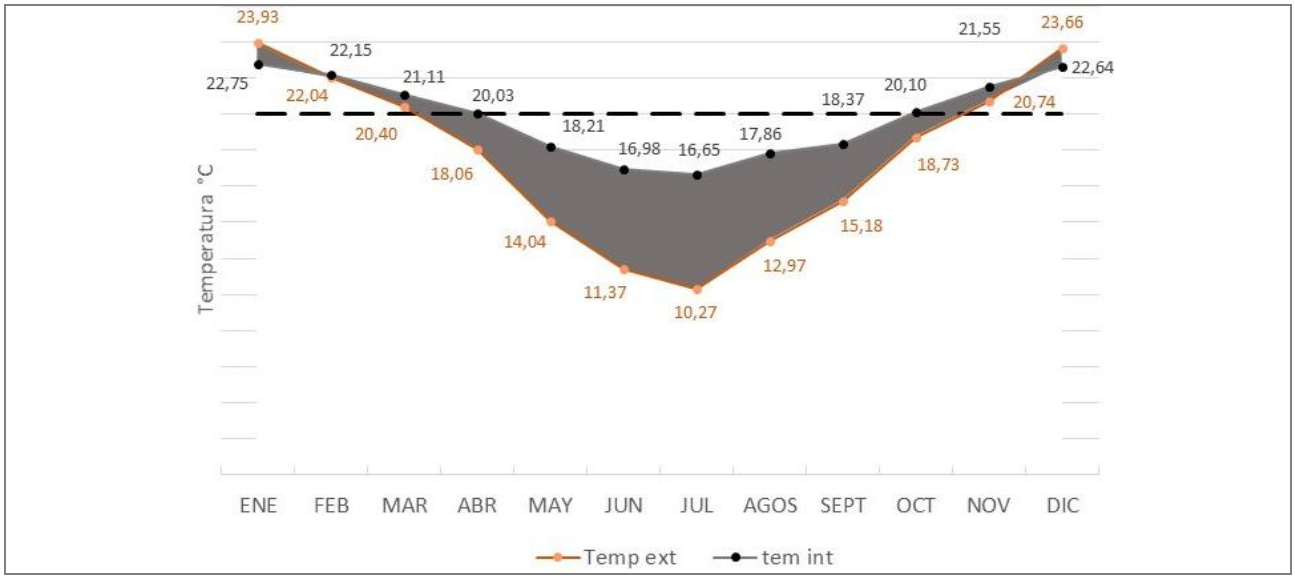
| VIG-023 | CU | LOSAS VIGUETAS |
|---|---|---|

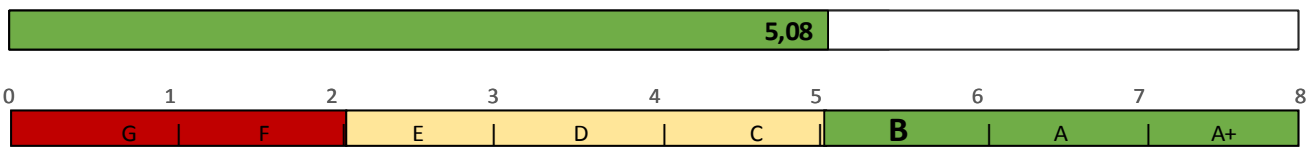
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,85** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,34** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



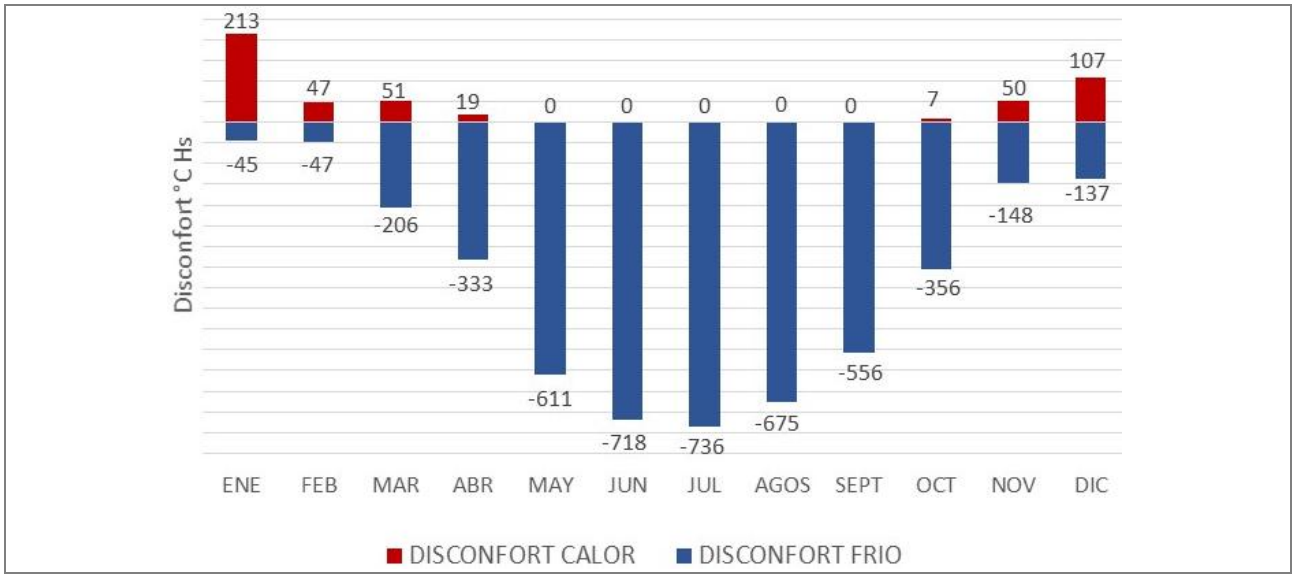




5,08 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| VIG-023 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

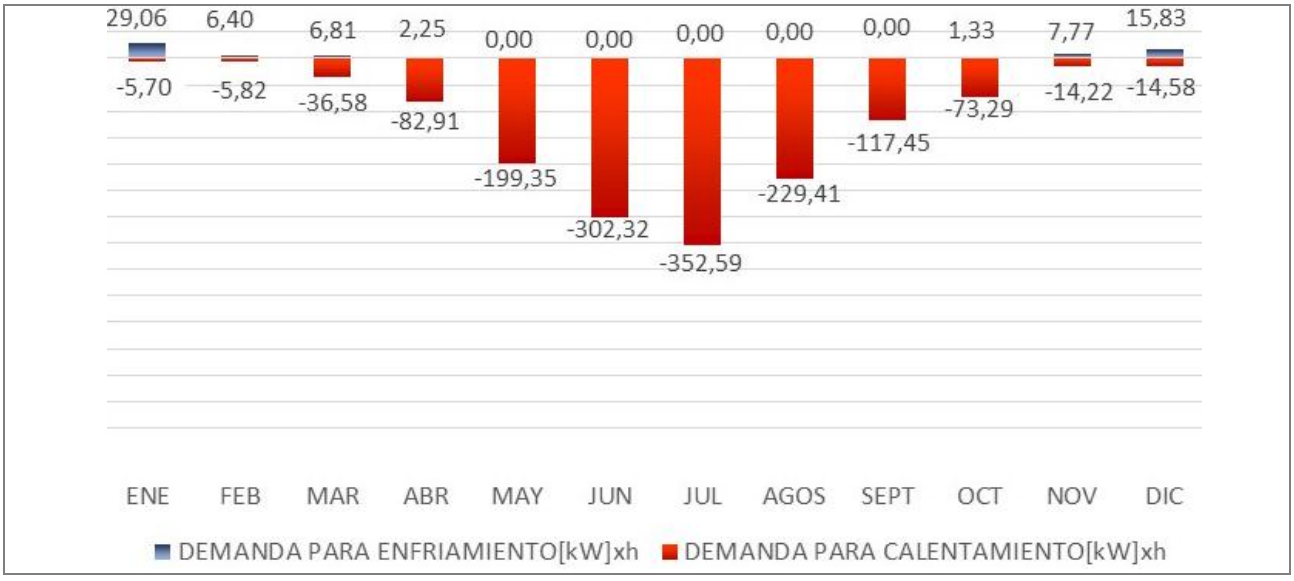
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **494** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRIO | **4.570** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.064** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

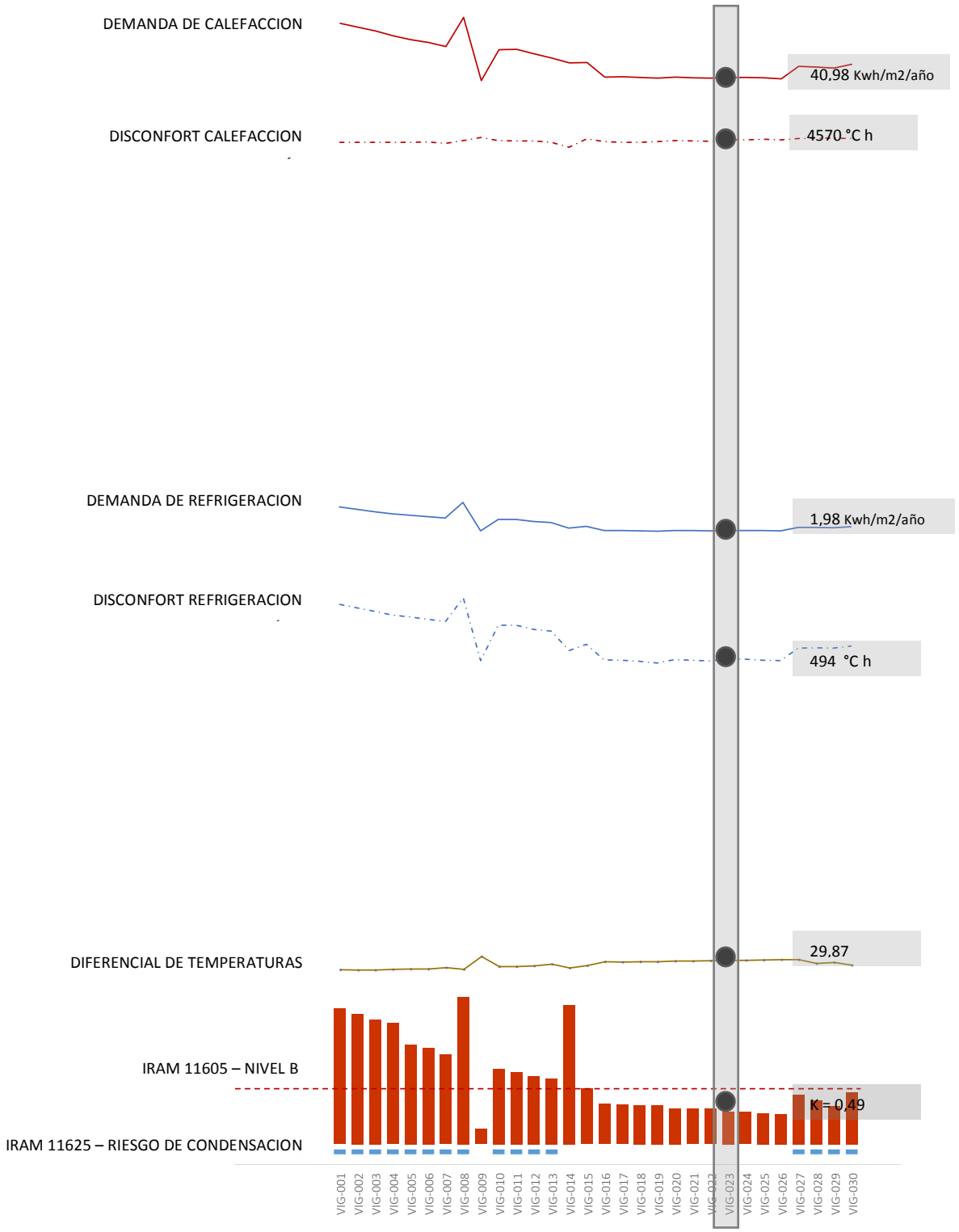



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **69,46** | kWh | 1,98 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.434,23** | kWh | 40,98 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.503,69** | kWh | **42,96** | kWh/m2/año |

| VIG-023 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 060 | N° 054 | N° 040 | N° 040 | N° 061 | N° 043 |



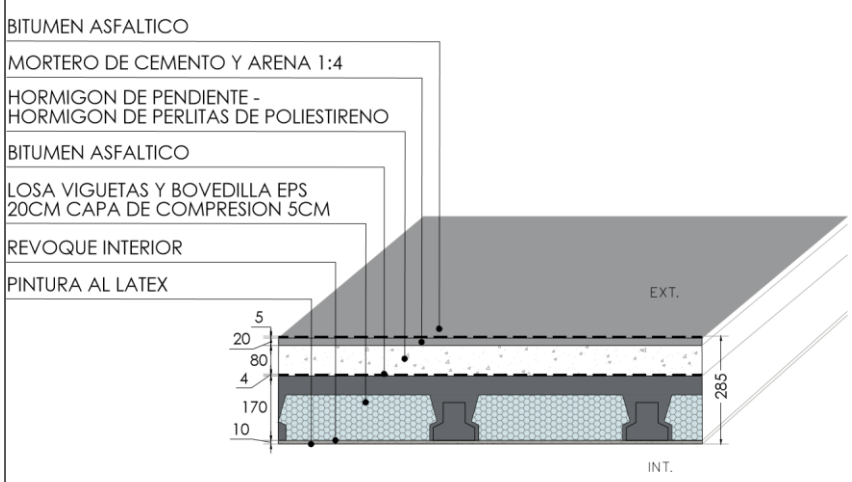

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,49 | 0% | 29,87 | 40,98 | 1,98 | 4570 | 494 |
| INC. FAMILIA | 48,87% | 0% | 102,20% | 87,91% | 47,42% | 100,34% | 67,38% |
| INC. MUNDIAL | 60,49% | 0% | 100,57% | 92,14% | 48,14% | 100,20% | 78,21% |

| VIG-024 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA VIGUETAS Y LADRILLOS EPS h 12 cm ALIV. CUBIERTA CON PERLAS EPS TERMINACION MEMBRANA DE ALUMINIO.

## INDICE DE TRANSMITANCIA TERMICA "K"

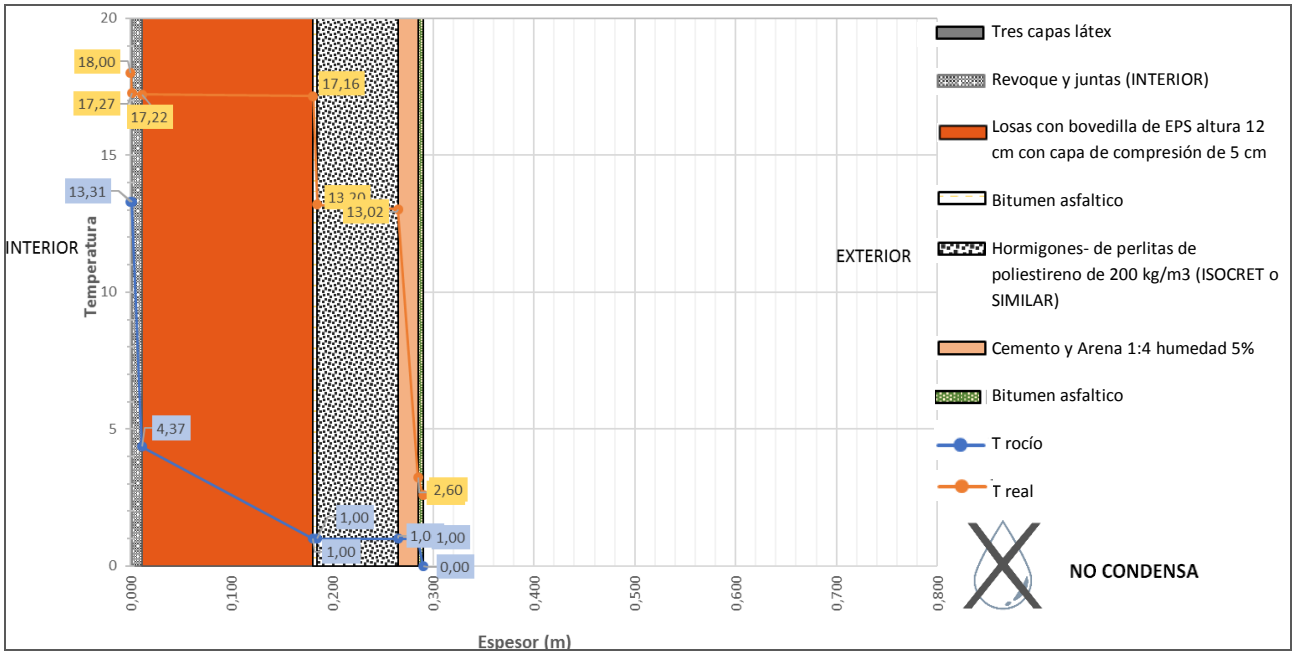
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,46 | 0,48 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 10,5 | Invierno 9,6 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,8** | **8,4** |
| | **Amortiguamiento:** | 0,039 | 0,045 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,3** | **5,0** |
| | **Amortiguamiento:** | 0,149 | 0,272 |

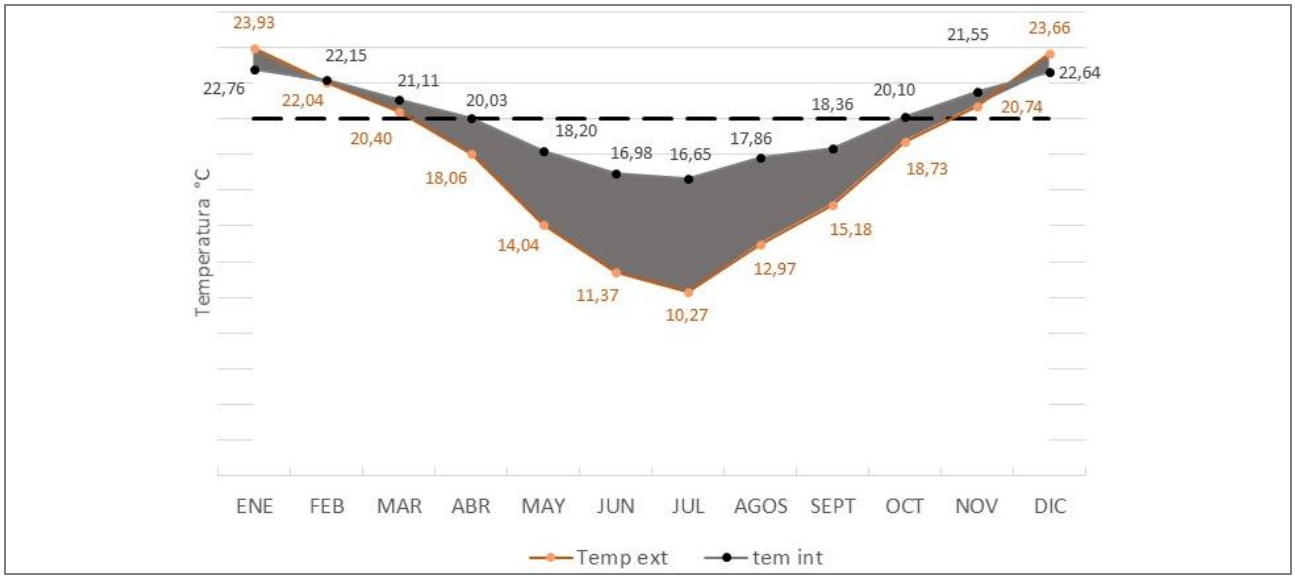
| VIG-024 | CU | LOSAS VIGUETAS |
|---|---|---|

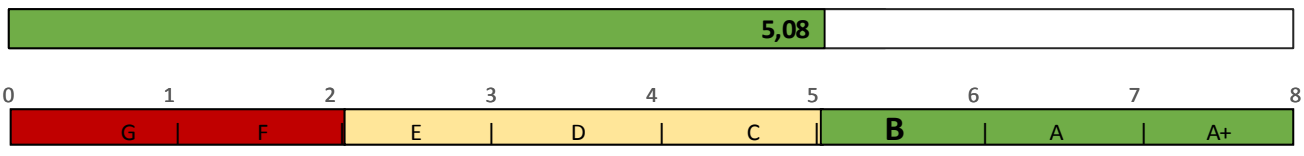
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,83** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,35** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



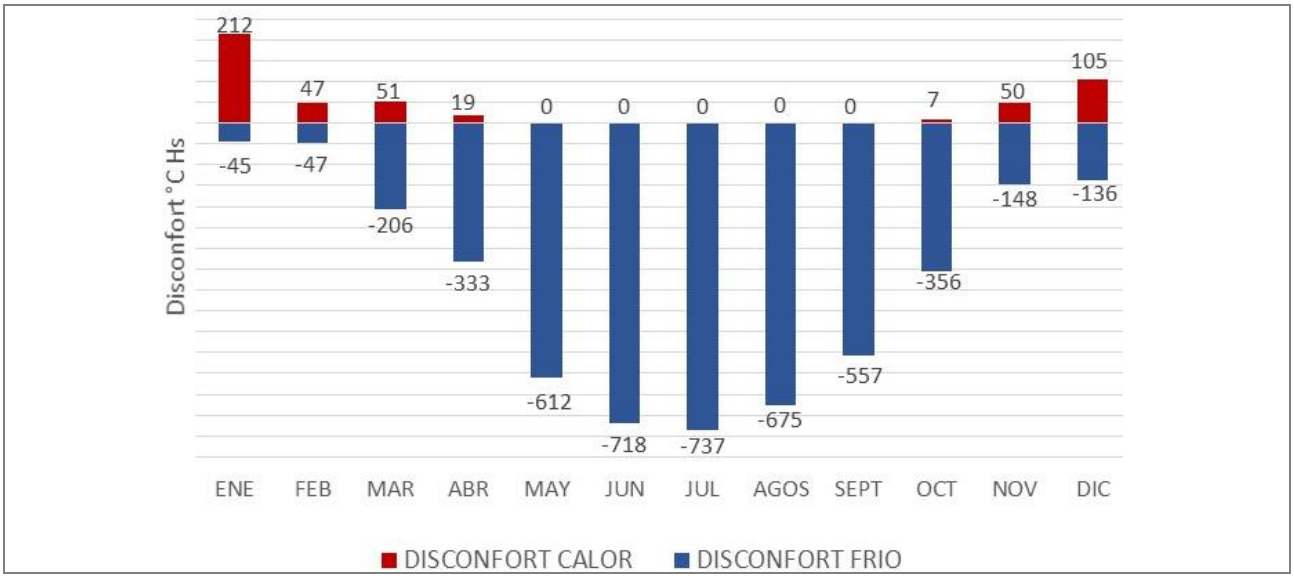




5,08 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| VIG-024 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

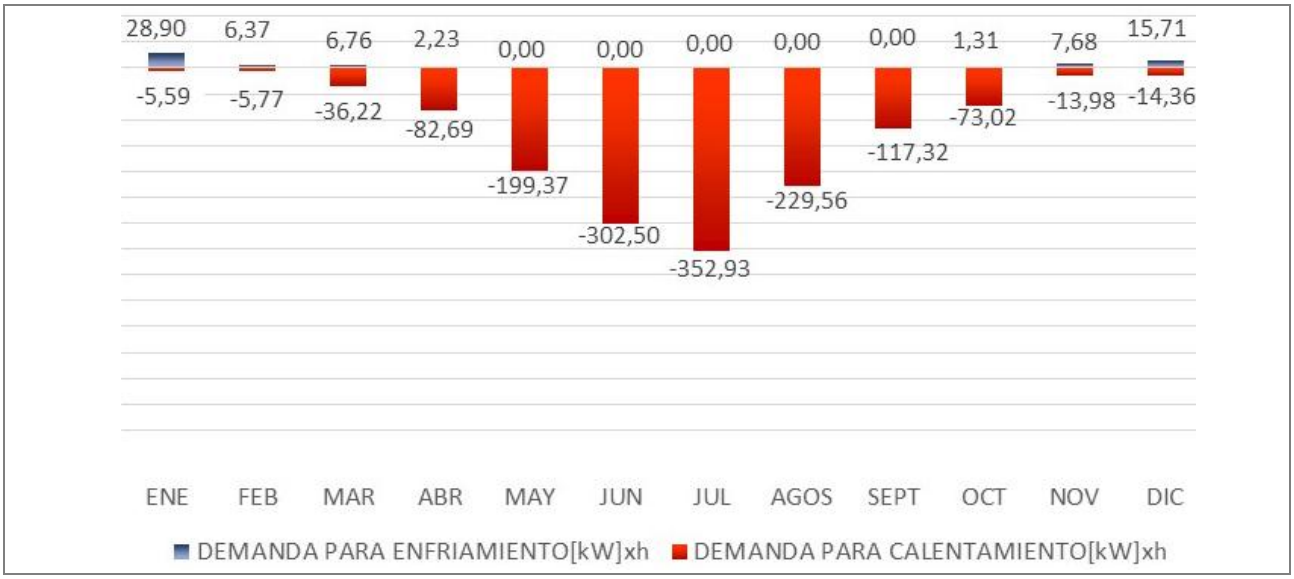
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **491** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRIO | **4.569** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.060** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

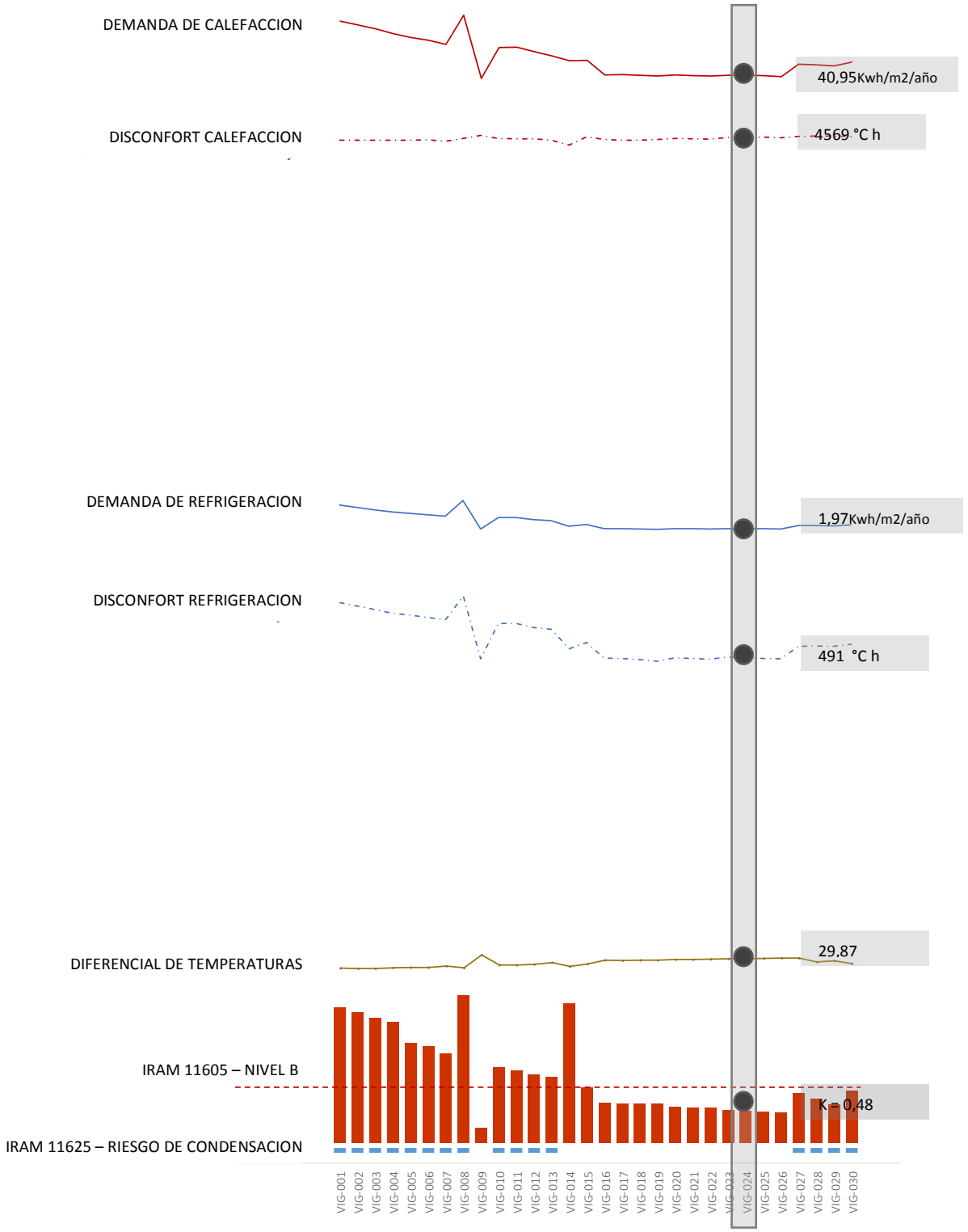



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **68,97** | kWh | 1,97 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.433,31** | kWh | 40,95 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.502,28** | kWh | **42,92** | kWh/m2/año |

| VIG-024 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 058 | N° 055 | N° 039 | N° 039 | N° 058 | N° 041 |



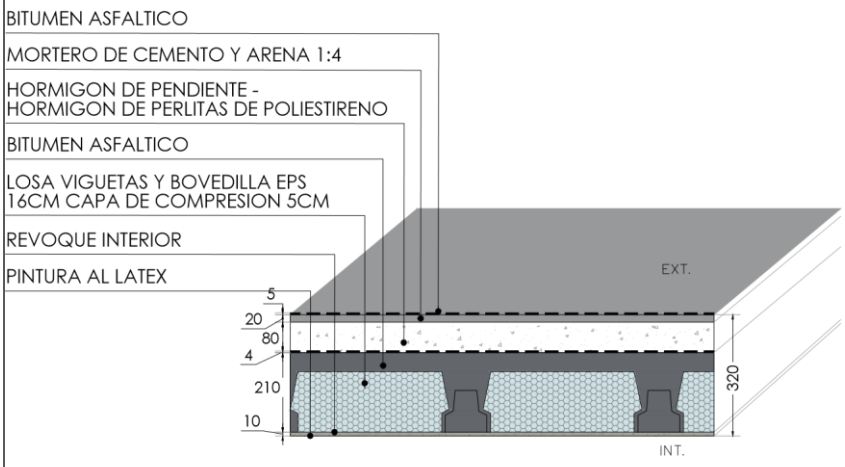

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,48 | 0% | 29,87 | 40,95 | 1,97 | 4569 | 491 |
| INC. FAMILIA | 47,87% | 0% | 102,20% | 87,84% | 47,18% | 100,32% | 66,97% |
| INC. MUNDIAL | 59,26% | 0% | 100,57% | 92,07% | 47,89% | 100,18% | 77,73% |

| VIG-025 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS Y LADRILLOS EPS H 16 CM CON CUBIERTA VIA HUMEDA ALIVIANADA DE PERLAS EPS Y TERMINACION DE MEMBRANA CON ALUMINIO.

## INDICE DE TRANSMITANCIA TERMICA "K"

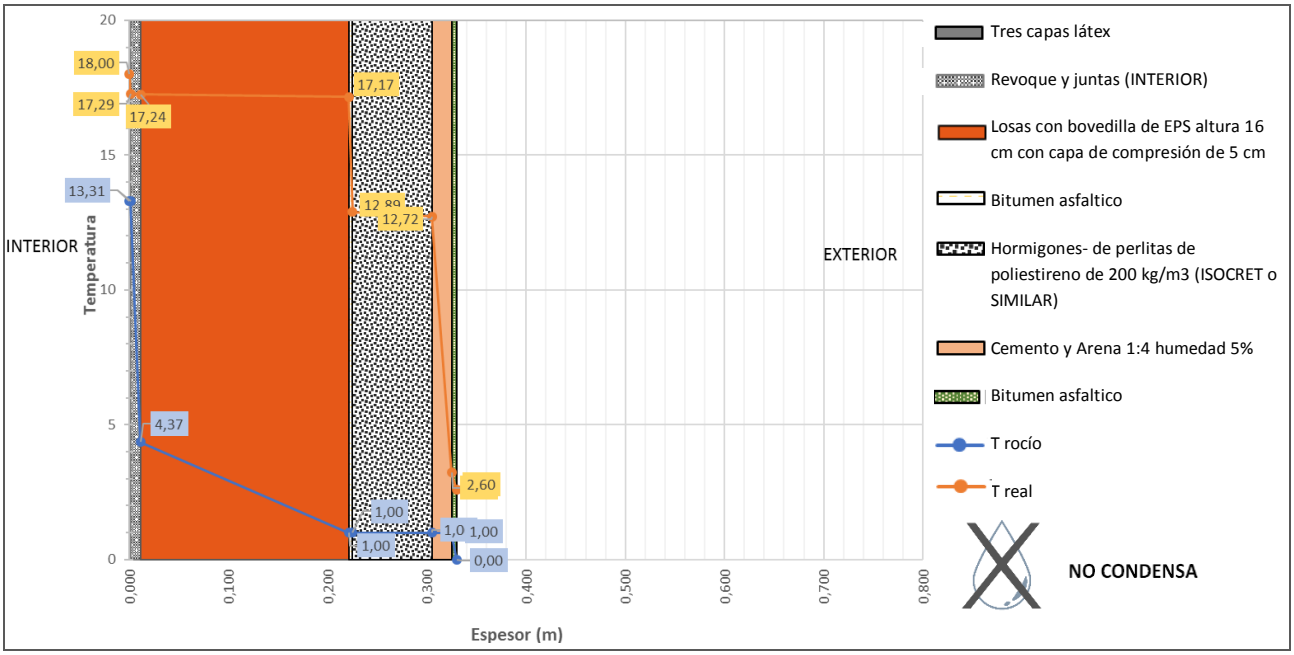
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,45 | 0,46 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 10,2 | 9,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,9** | **8,5** |
| | **Amortiguamiento:** | 0,037 | 0,043 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,4** | **5,0** |
| | **Amortiguamiento:** | 0,145 | 0,270 |

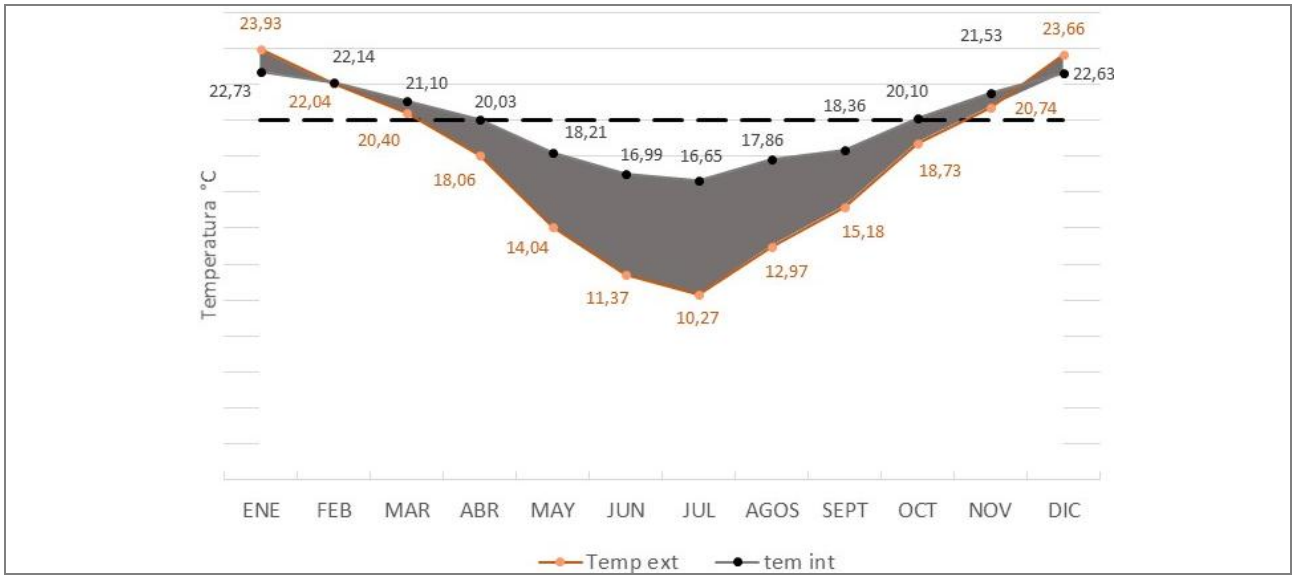
| VIG-025 | CU | LOSAS VIGUETAS |
|---|---|---|

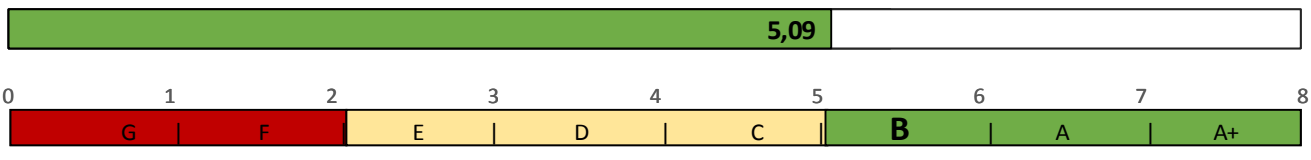
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,79** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,37** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



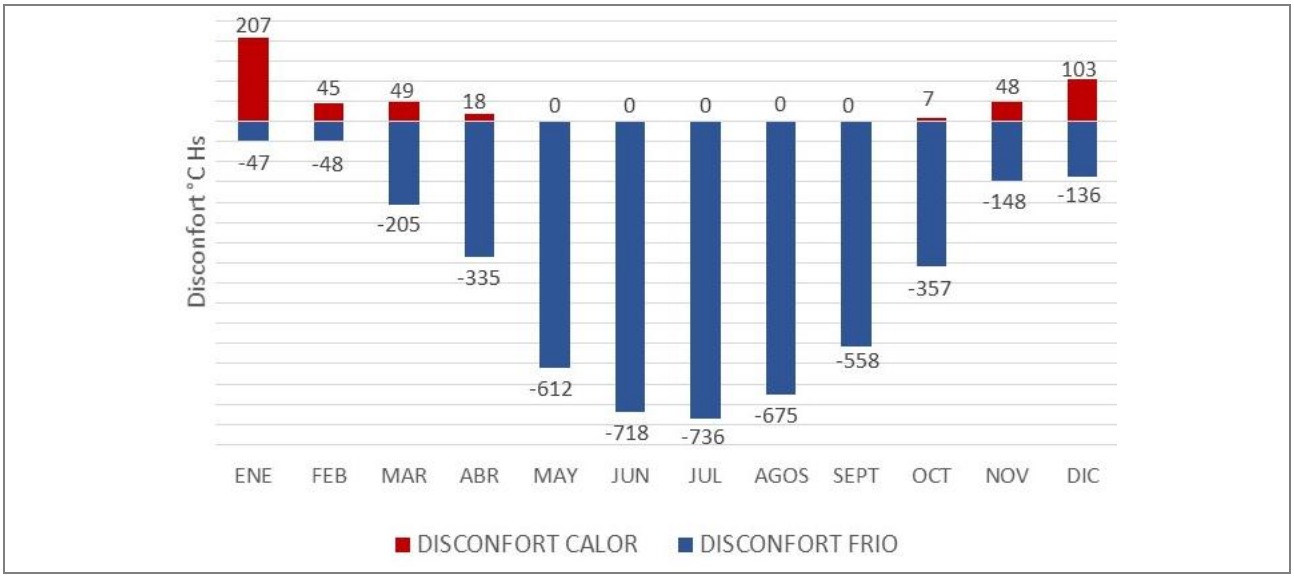




5,09 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| VIG-025 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

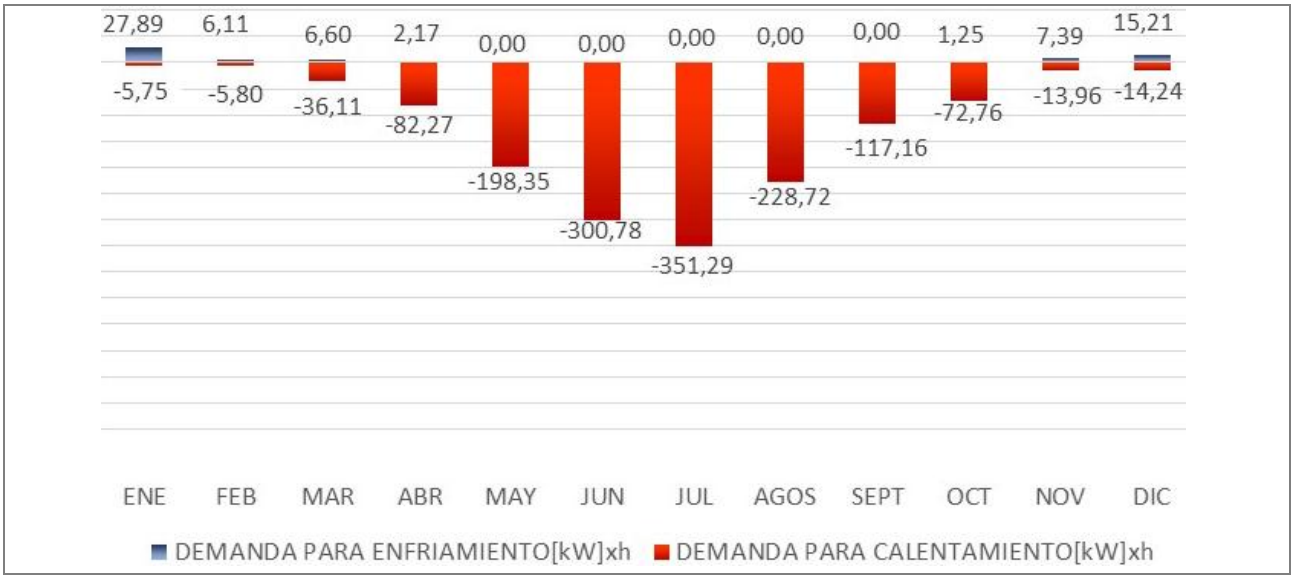
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **478** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRIO | **4.575** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.053** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

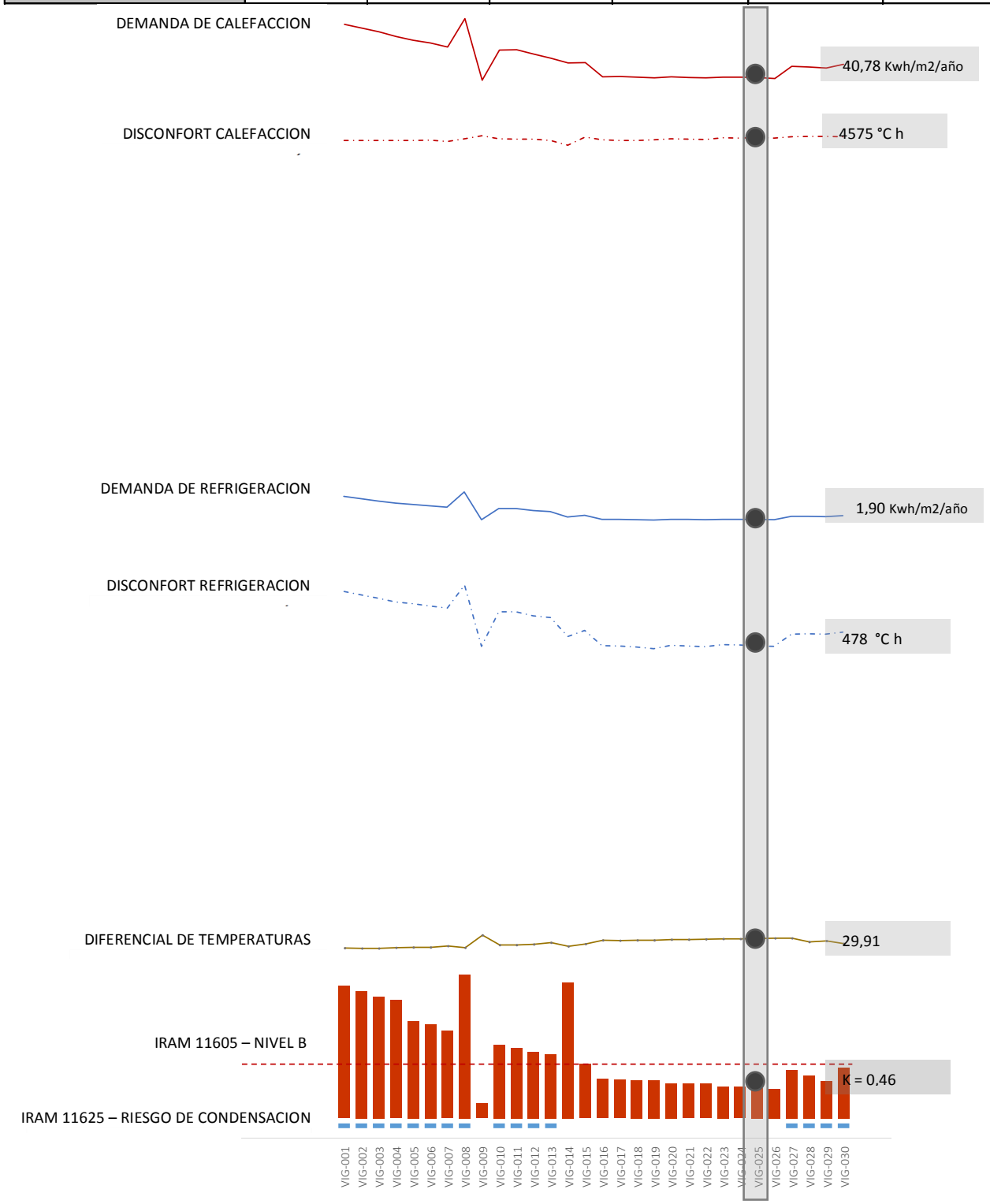



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **66,62** | kWh | 1,90 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.427,18** | kWh | 40,78 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.493,80** | kWh | **42,68** | kWh/m2/año |

| VIG-025 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 056 | N° 052 | N° 36 | N° 033 | N° 066 | N° 033 |



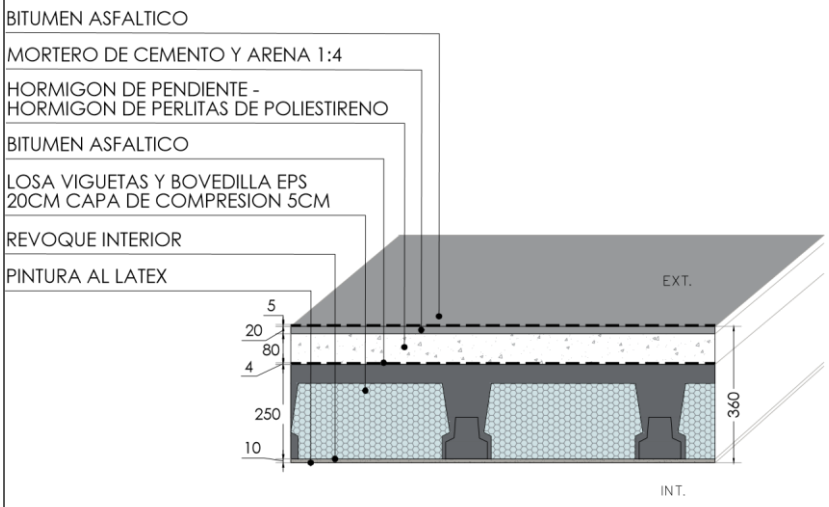

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,46 | 0% | 29,91 | 40,78 | 1,9 | 4575 | 478 |
| INC. FAMILIA | 45,88% | 0% | 102,34% | 87,48% | 45,51% | 100,45% | 65,20% |
| INC. MUNDIAL | 56,79% | 0% | 100,71% | 91,69% | 46,19% | 100,31% | 75,67% |

| VIG-026 | CU | LOSAS VIGUETAS |
|---|---|---|

LOSA DE VIGUETAS Y LADRILLOS EPS H 20 CM CON CUBIERTA VIA HUMEDA ALIVIANADA DE PERLAS EPS Y TERMINACION DE MEMBRANA CON ALUMINIO.

## INDICE DE TRANSMITANCIA TERMICA "K"

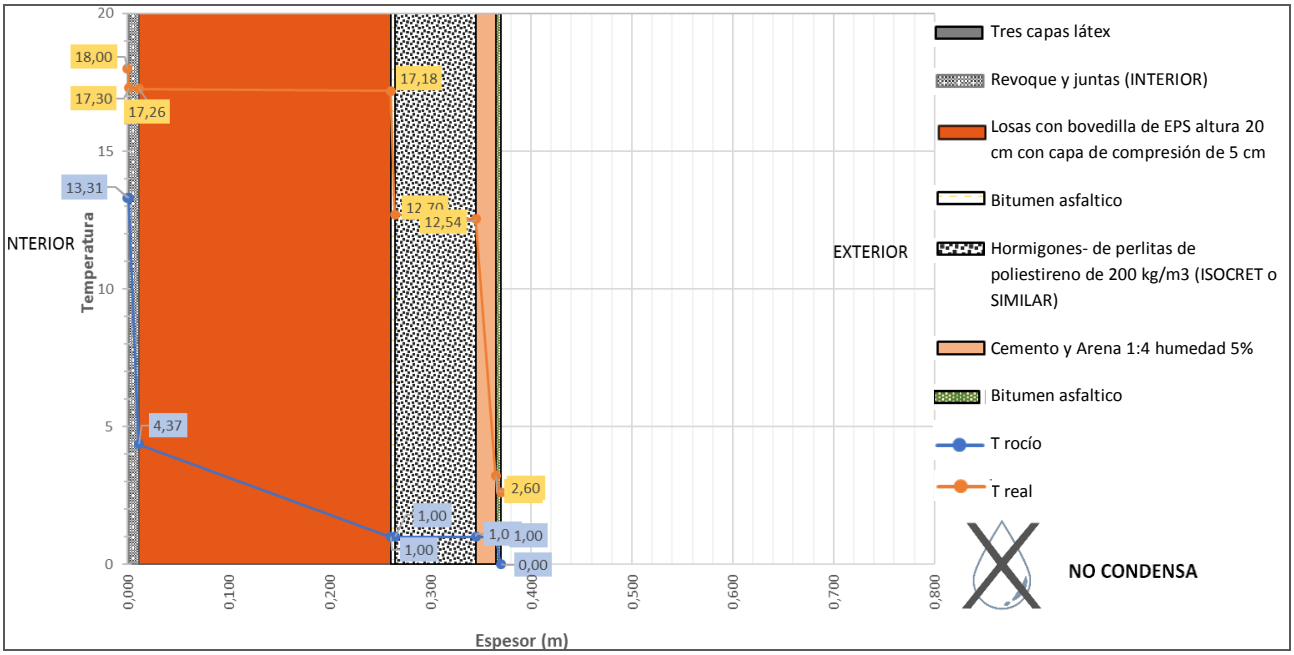
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,44 | 0,45 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 10,0 | 9,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,0** | **8,6** |
| | **Amortiguamiento:** | 0,036 | 0,042 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,5** | **5,0** |
| | **Amortiguamiento:** | 0,142 | 0,268 |

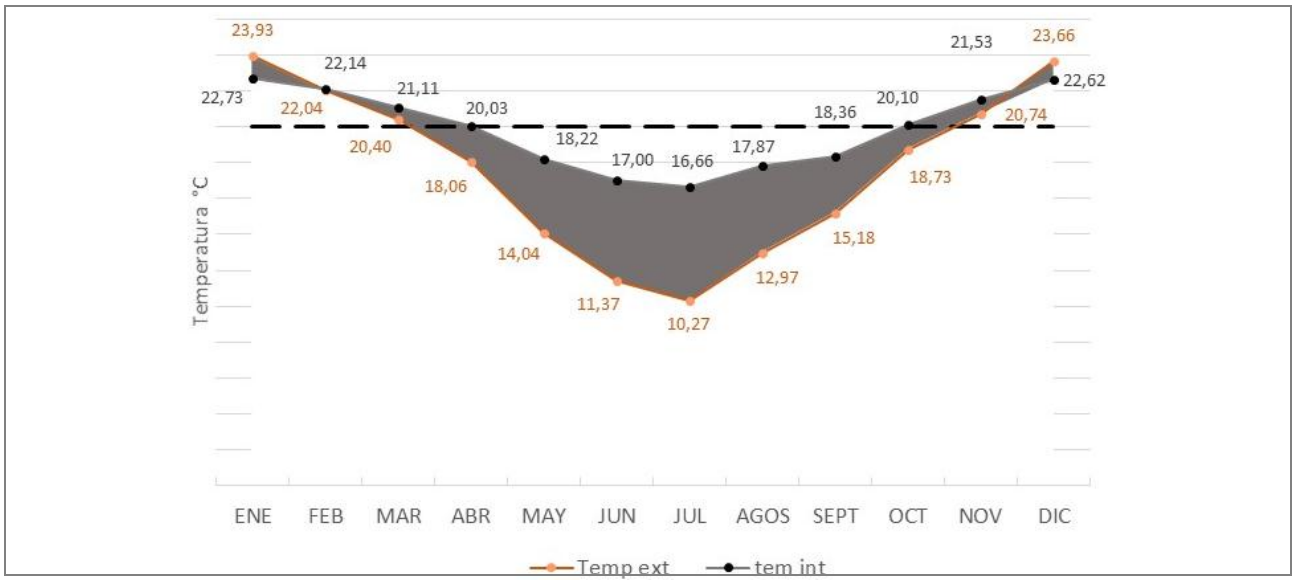
| VIG-026 | CU | LOSAS VIGUETAS |
|---|---|---|

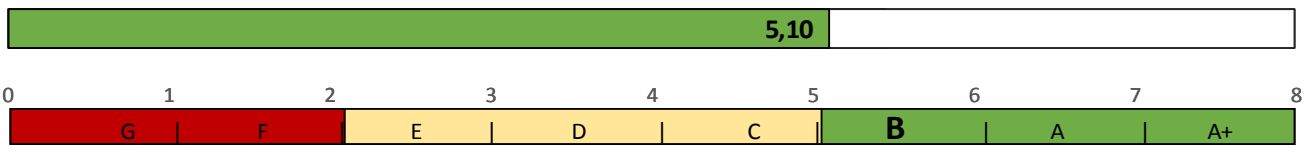
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **25,74** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,39** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



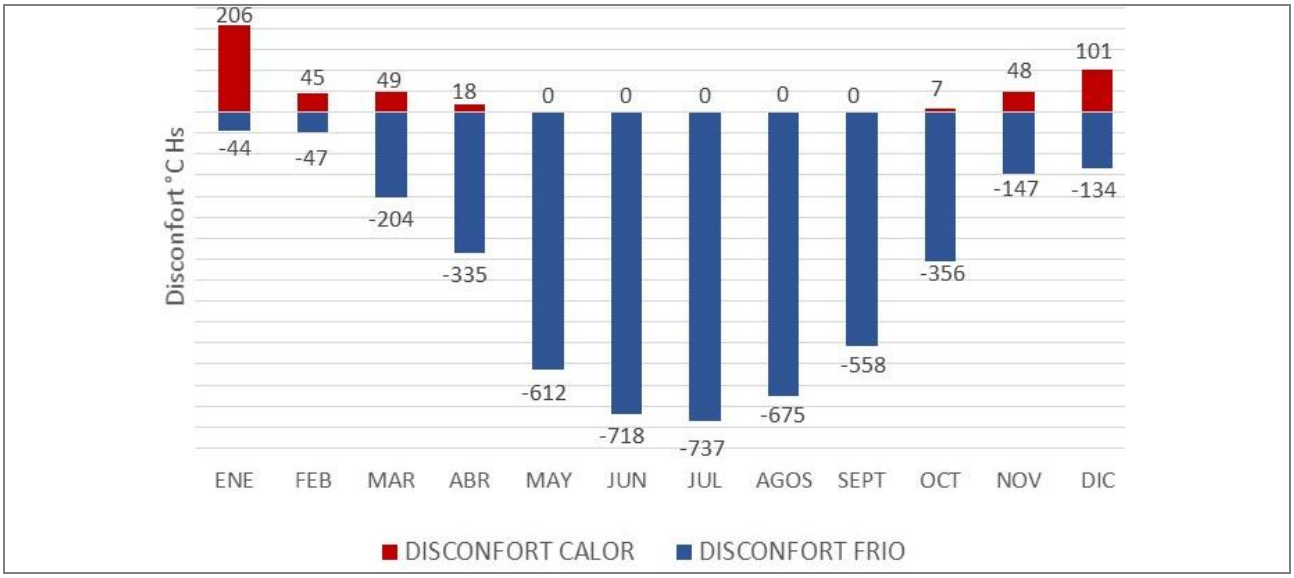




5,10 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| VIG-026 | CU | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

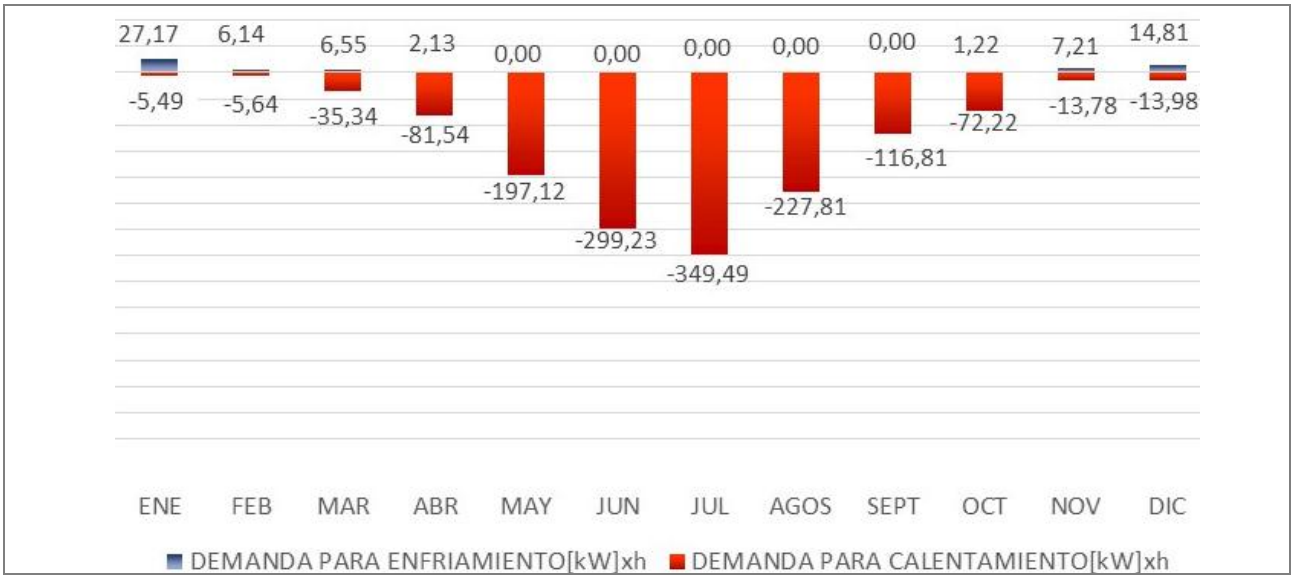
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **474** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRIO | **4.567** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.041** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

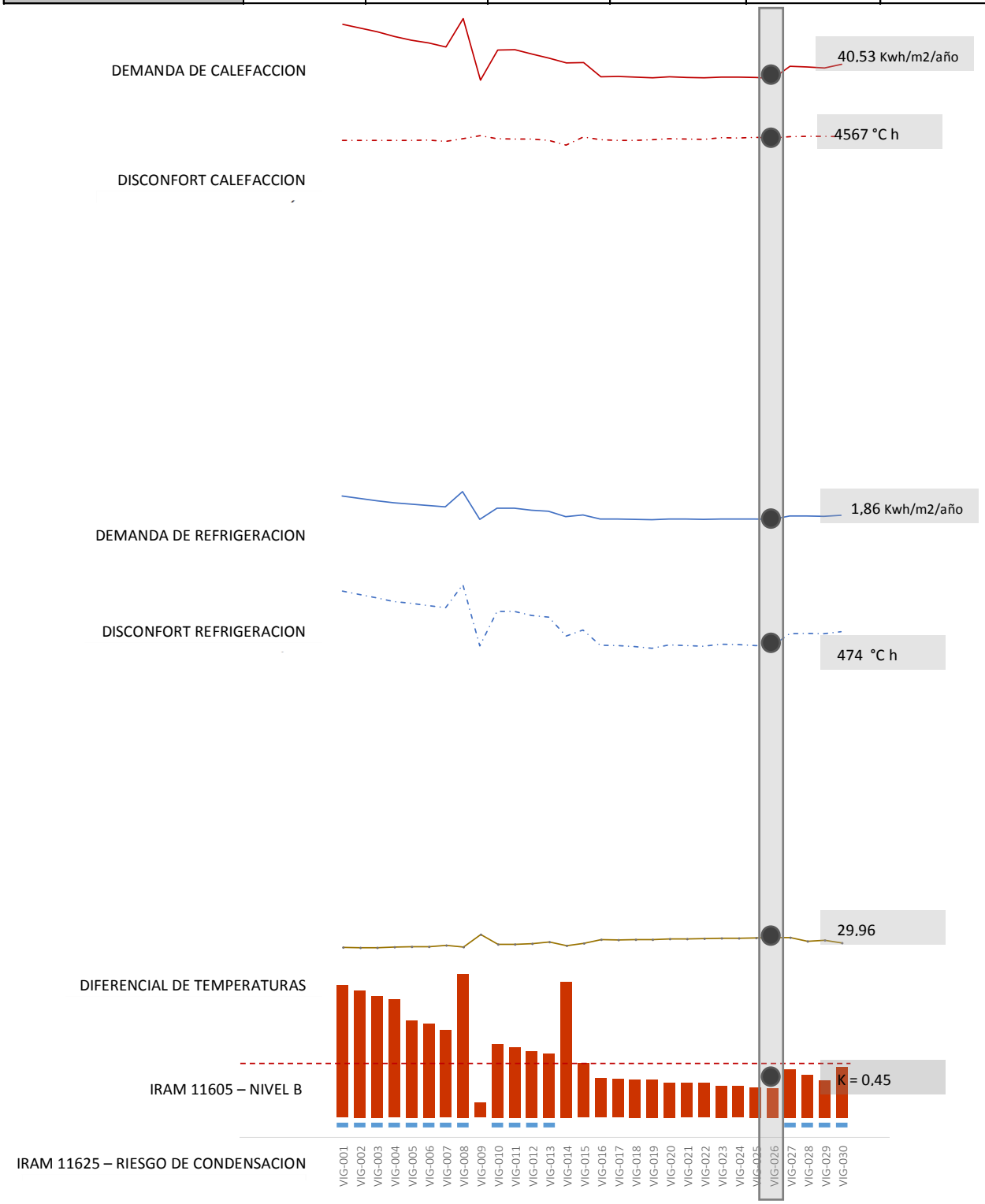



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **65,23** | kWh | 1,86 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.418,45** | kWh | 40,53 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.483,68** | kWh | **42,39** | kWh/m2/año |

| VIG-026 | CU | LOSAS VIGUETAS |
|---|---|---|

## DIAGNSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 053 | N° 046 | N° 029 | N° 027 | N° 055 | N° 029 |



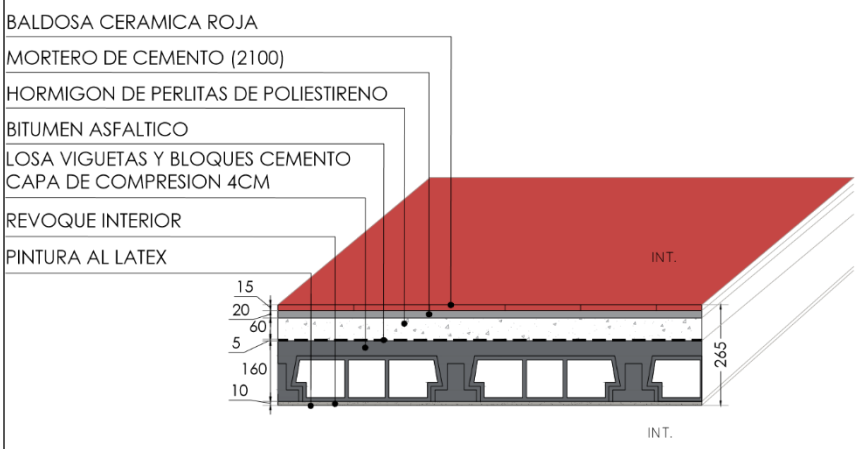

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,45 | 0% | 29,96 | 40,53 | 1,86 | 4567 | 474 |
| INC. FAMILIA | 44,88% | 0% | 102,51% | 86,94% | 44,55% | 100,28% | 64,65% |
| INC. MUNDIAL | 55,56% | 0% | 100,88% | 91,12% | 45,22% | 100,13% | 75,04% |

| VIG-027 | EP | LOSAS VIGUETAS |
|---|---|---|

ENTREPISO DE LOSA DE VIGUETAS Y BLOQUES CEMENTO ARENA H 12 CM CON CARGA DE PERLAS DE EPS Y TERMINACION CON CERAMICOS.

## INDICE DE TRANSMITANCIA TERMICA "K"

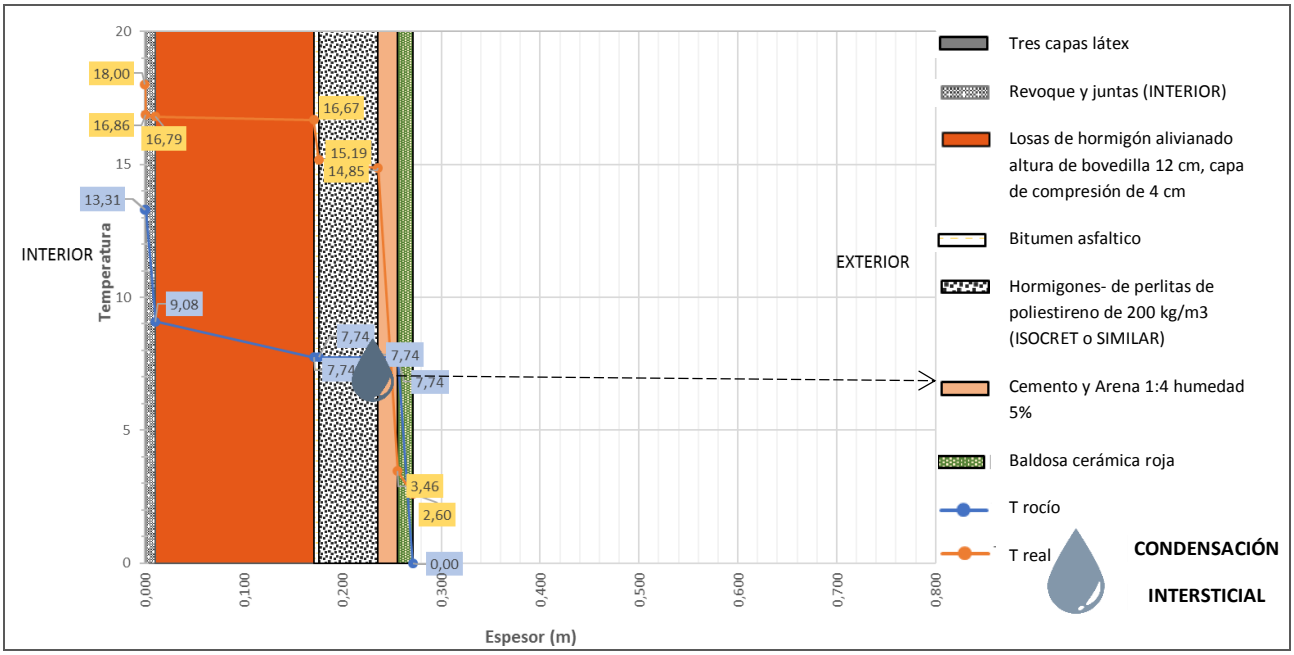
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,70 | 0,74 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



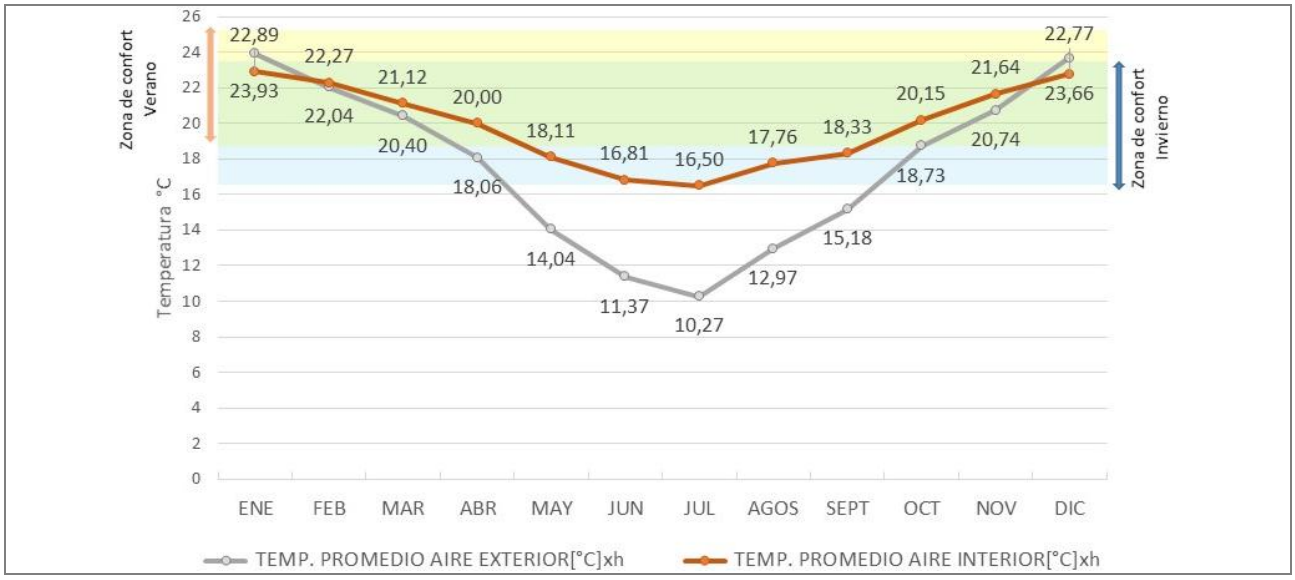

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 24,6 | 18,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,3** | **7,2** |
| | **Amortiguamiento:** | 0,046 | 0,070 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,5** | **4,2** |
| | **Amortiguamiento:** | 0,141 | 0,333 |

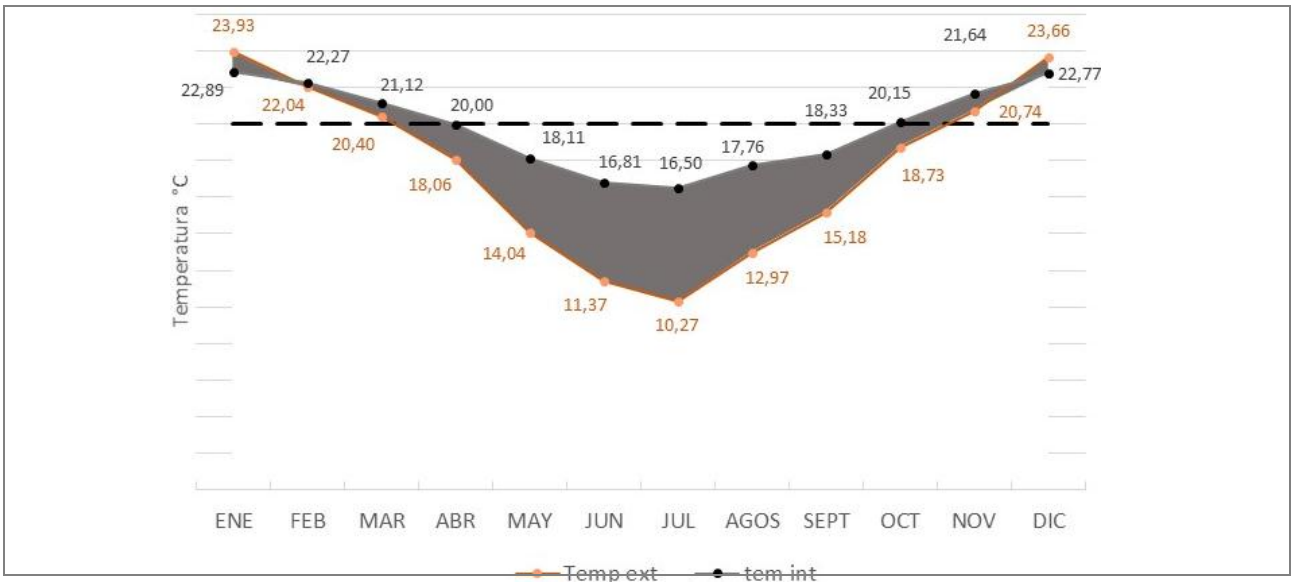
| VIG-027 | EP | LOSAS VIGUETAS |
|---|---|---|

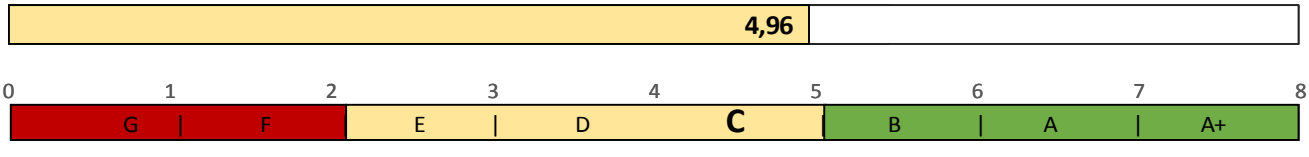
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **26,34** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,93** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



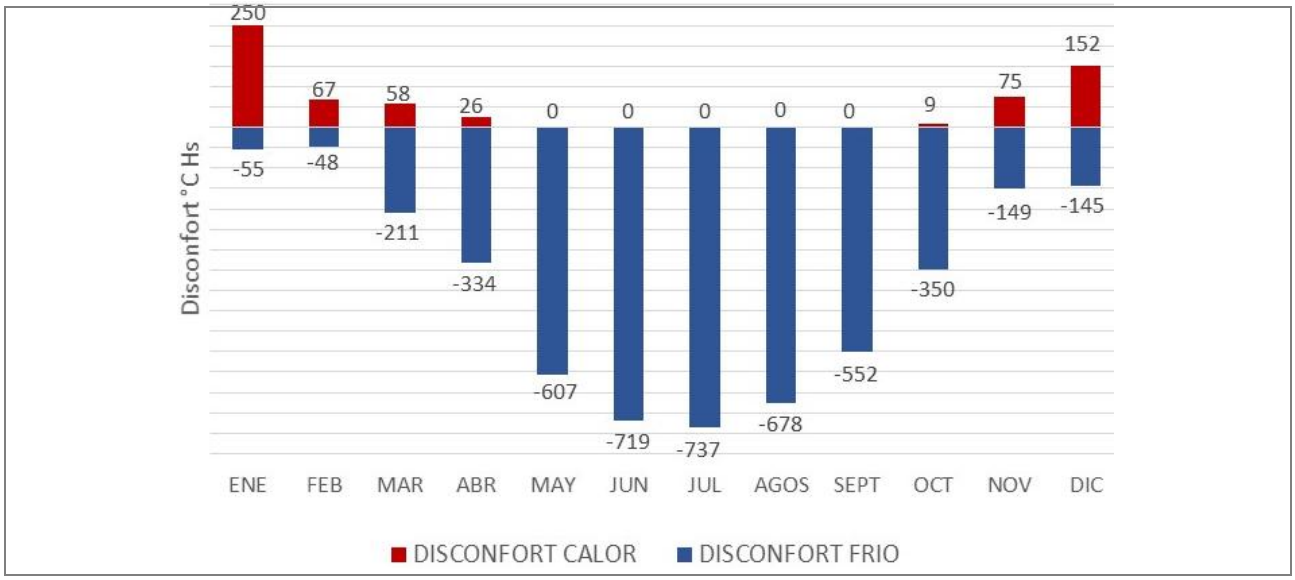




4,96 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| VIG-027 | EP | LOSAS VIGUETAS |
|---|---|---|

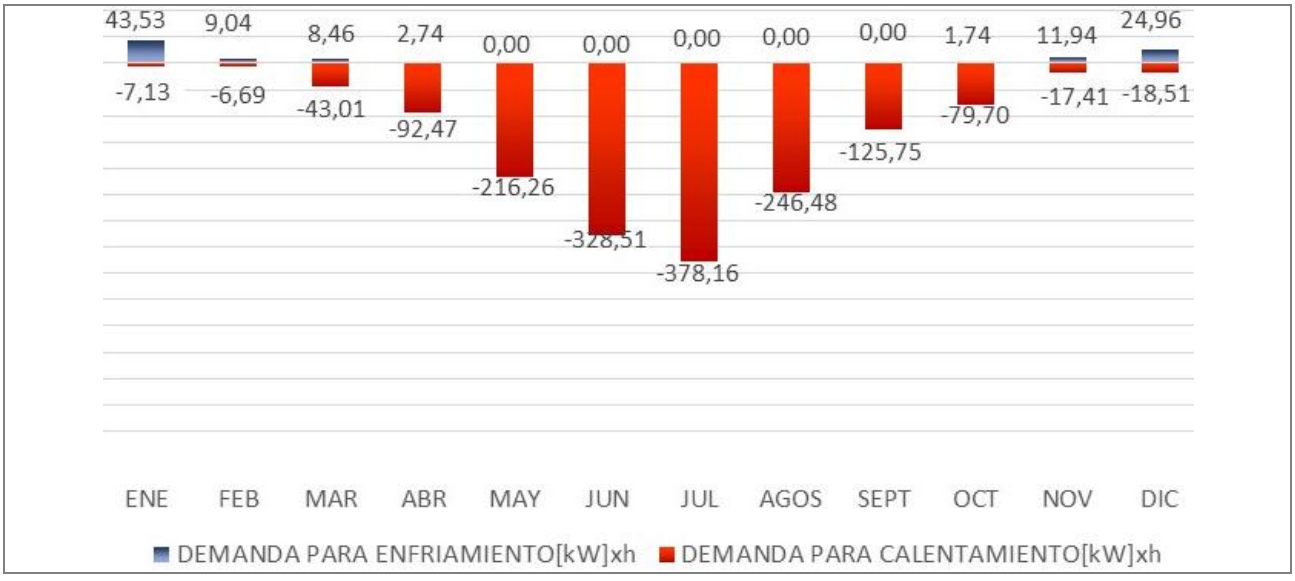
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **636** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRIO | **4.583** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.219** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

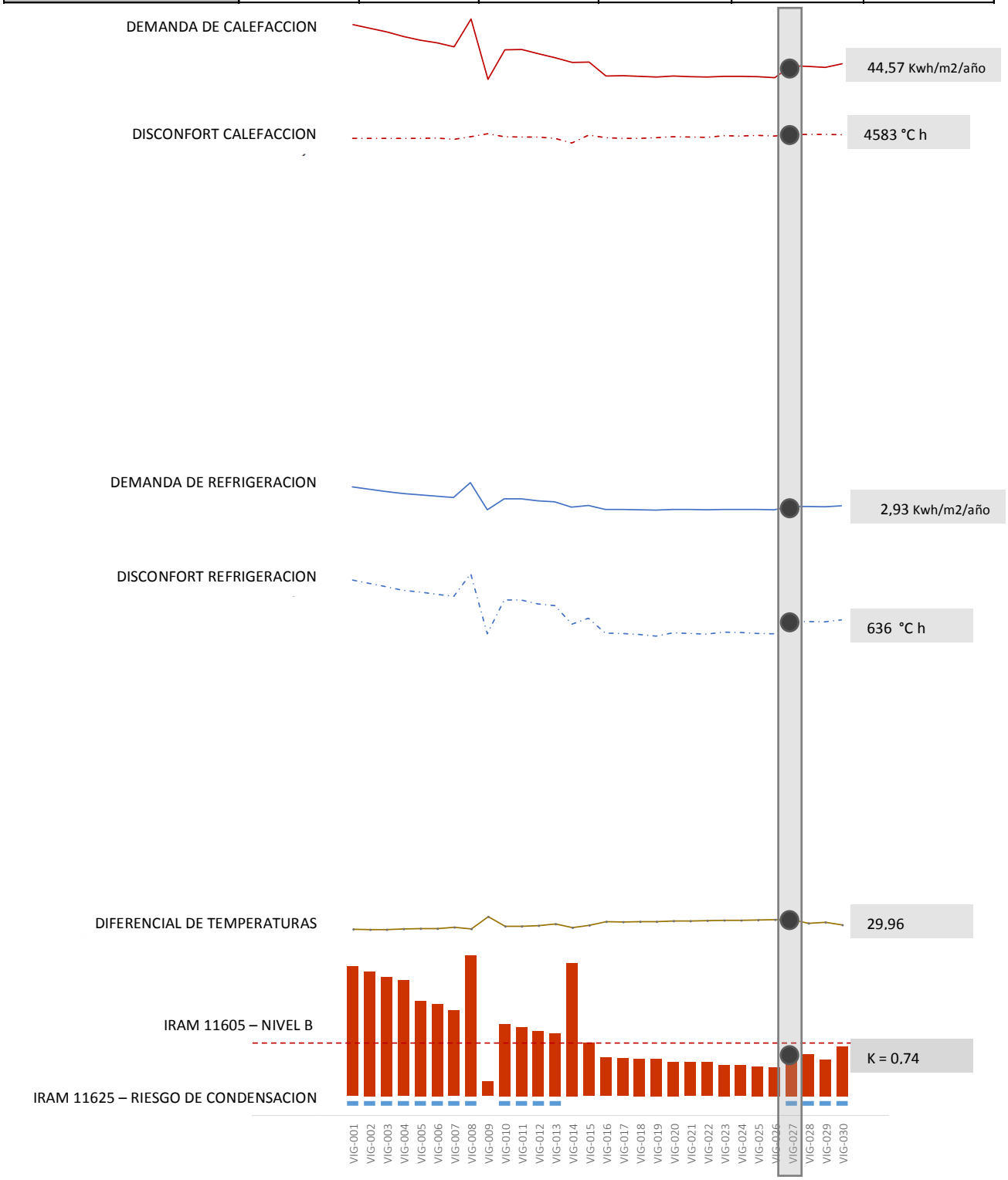



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **102,39** | kWh | 2,93 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.560,07** | kWh | 44,57 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.662,46** | kWh | **47,50** | kWh/m2/año |

| VIG-027 | EP | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 086 | N° 091 | N° 087 | N° 077 | N° 074 | N° 081 |



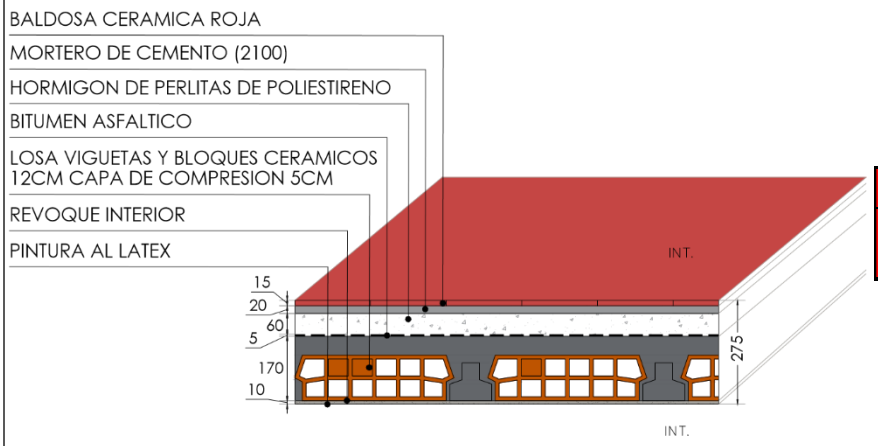

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,74 | 100% | 29,96 | 44,57 | 2,93 | 4583 | 636 |
| INC. FAMILIA | 73,80% | 0% | 102,51% | 95,61% | 70,17% | 100,63% | 86,75% |
| INC. MUNDIAL | 91,36% | 0% | 100,88% | 100,21% | 71,23% | 100,48% | 100,69% |

| VIG-028 | EP | LOSAS VIGUETAS |
|---|---|---|

ENTREPISO DE LOSA DE VIGUETAS Y BLOQUES CERAMICOS H 12 CM, CON CARGA DE PERLAS DE EPS Y TERMINACION CON CERAMICOS.

## INDICE DE TRANSMITANCIA TERMICA "K"

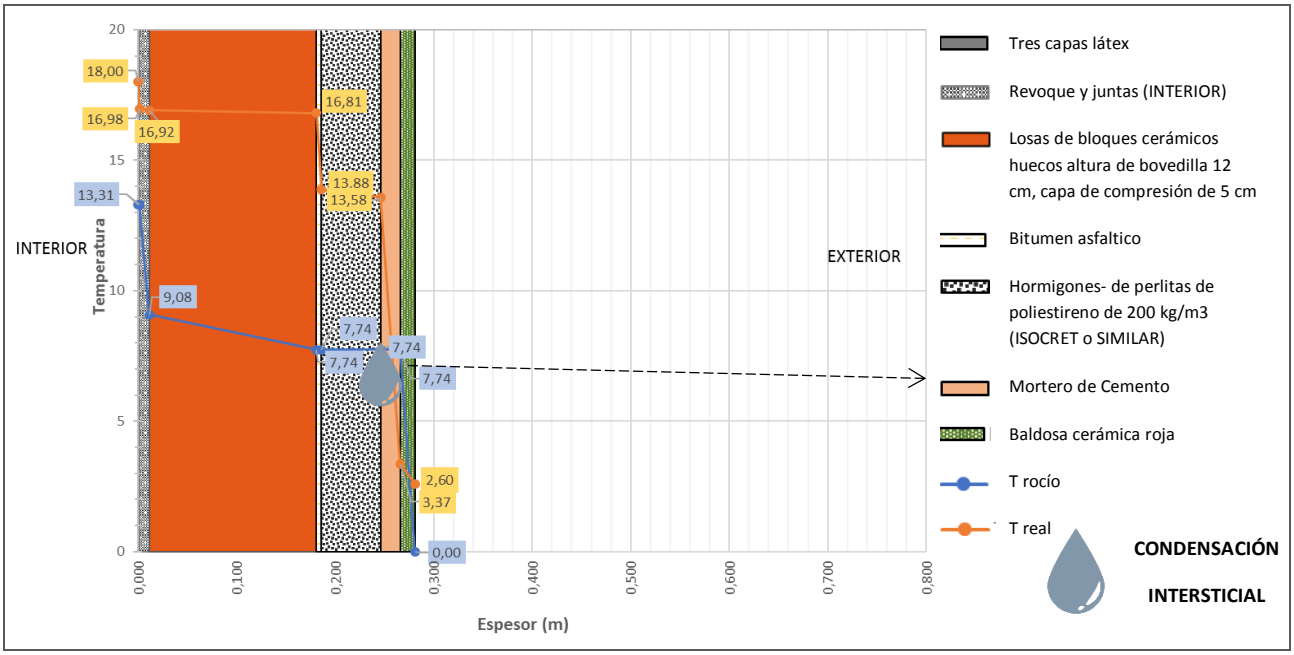
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,63 | 0,66 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 21,8 | 16,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,8** | **7,6** |
| | **Amortiguamiento:** | 0,038 | 0,060 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,0** | **4,3** |
| | **Amortiguamiento:** | 0,125 | 0,323 |

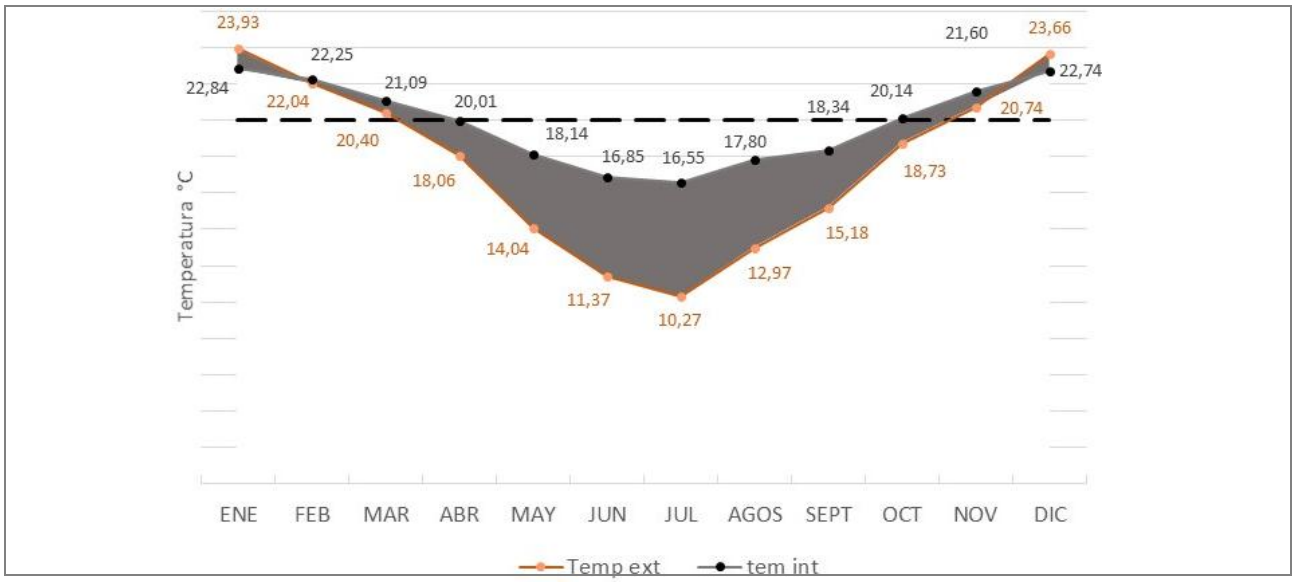
| VIG-028 | EP | LOSAS VIGUETAS |
|---|---|---|

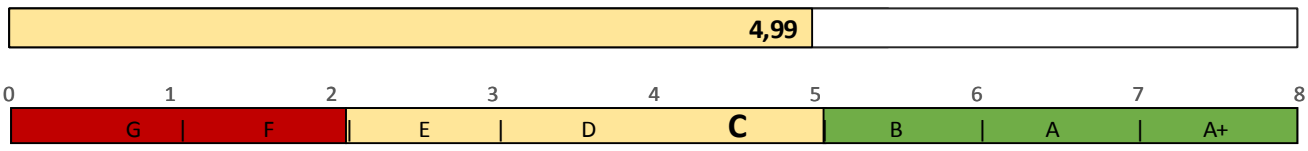
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **26,32** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,96** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



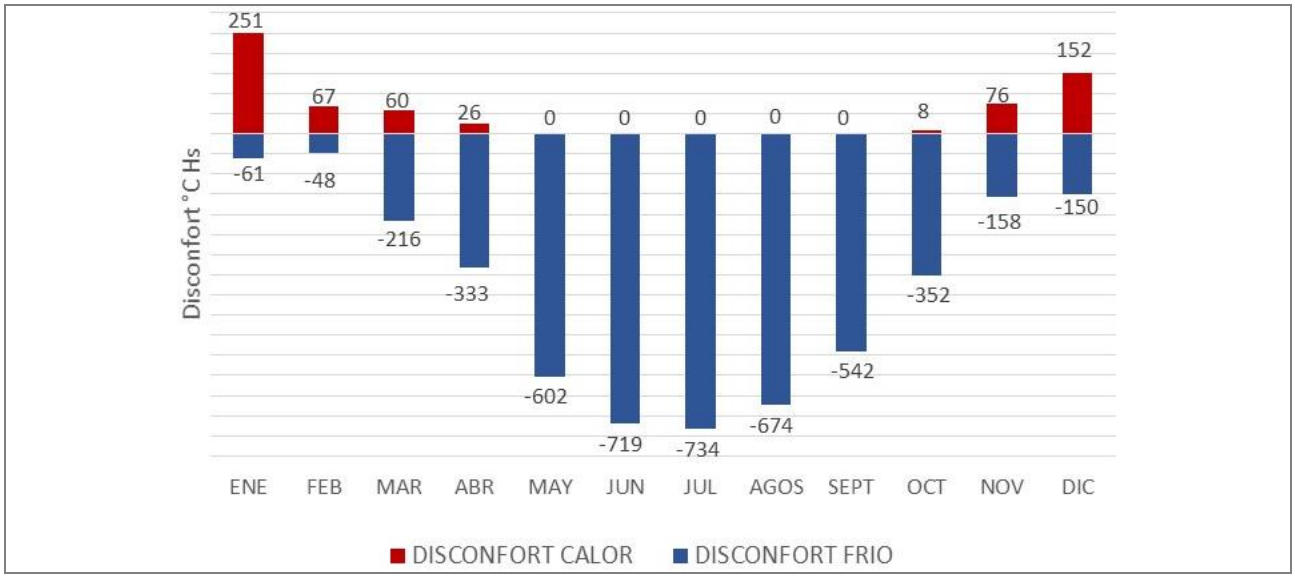




4,99 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| VIG-028 | EP | LOSAS VIGUETAAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

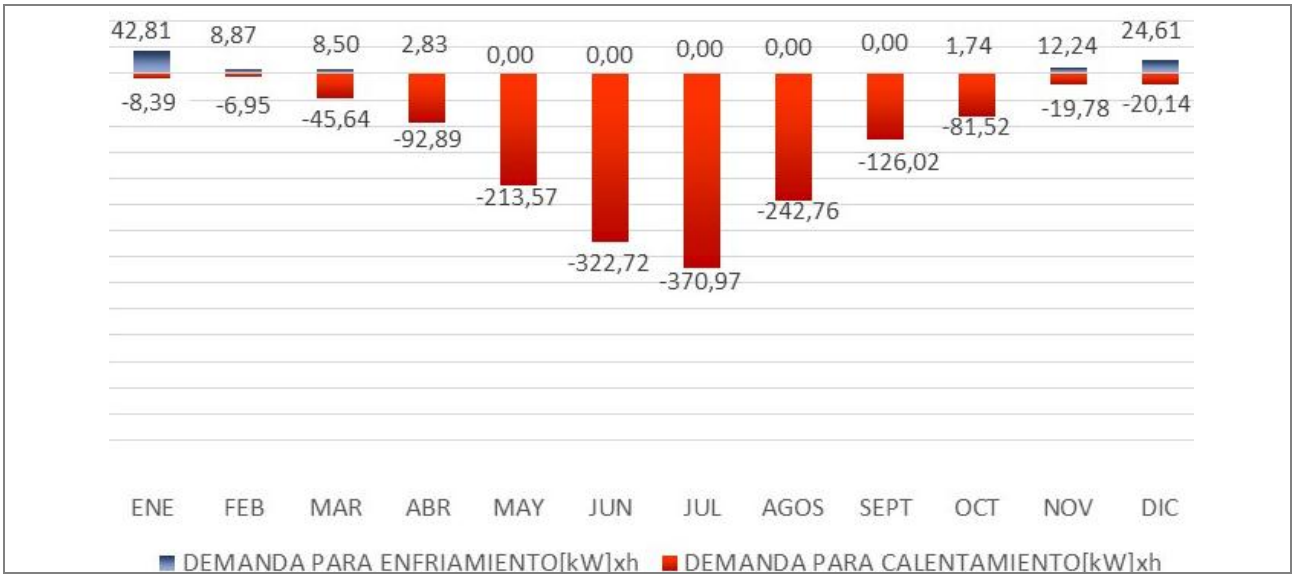
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **639** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRIO | **4.589** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.228** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

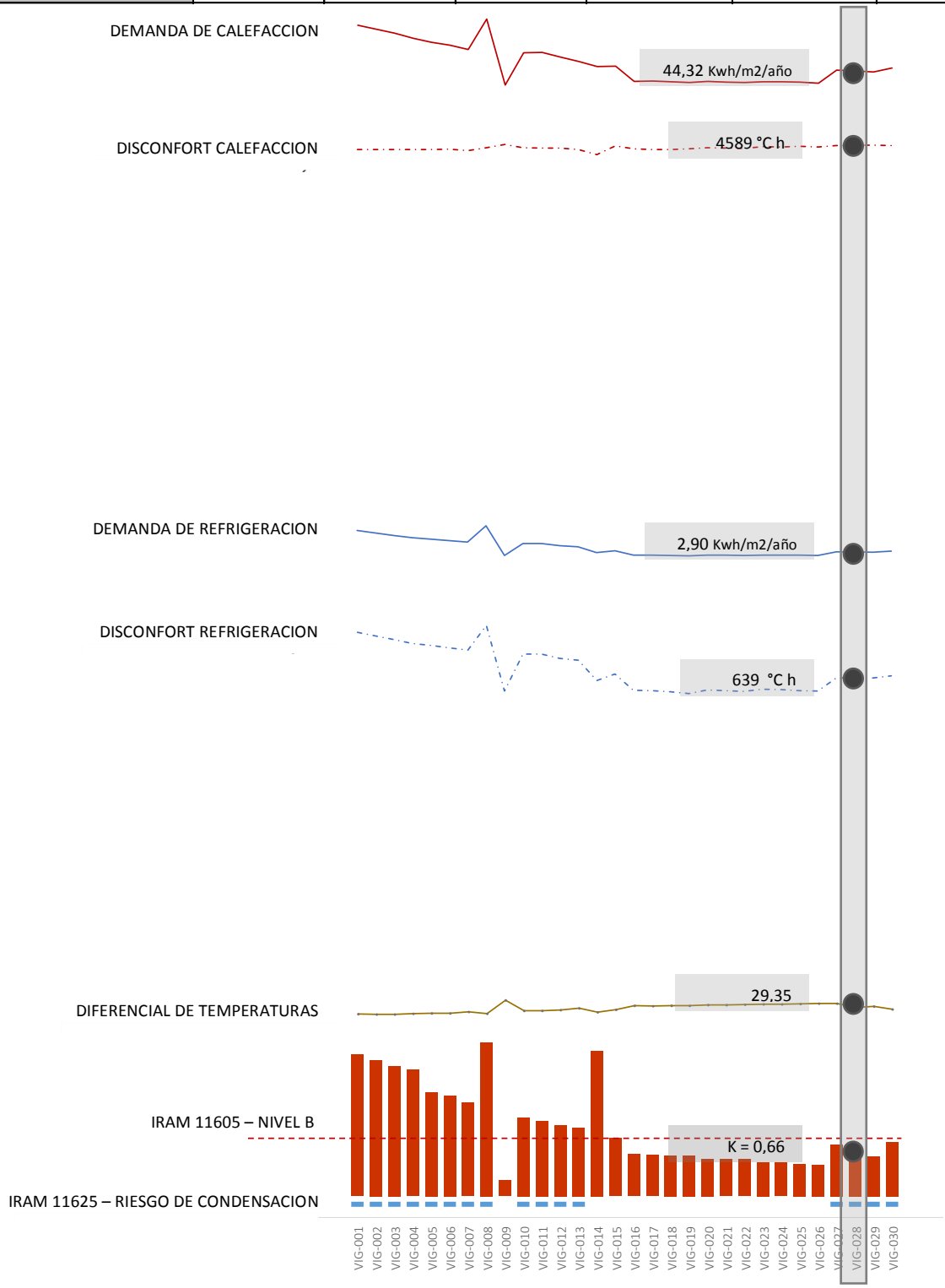



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **101,59** | kWh | 2,90 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.551,35** | kWh | 44,32 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.652,94** | kWh | **47,23** | kWh/m2/año |

| VIG-028 | EP | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 080 | N° 084 | N° 085 | N° 072 | N° 080 | N° 084 |



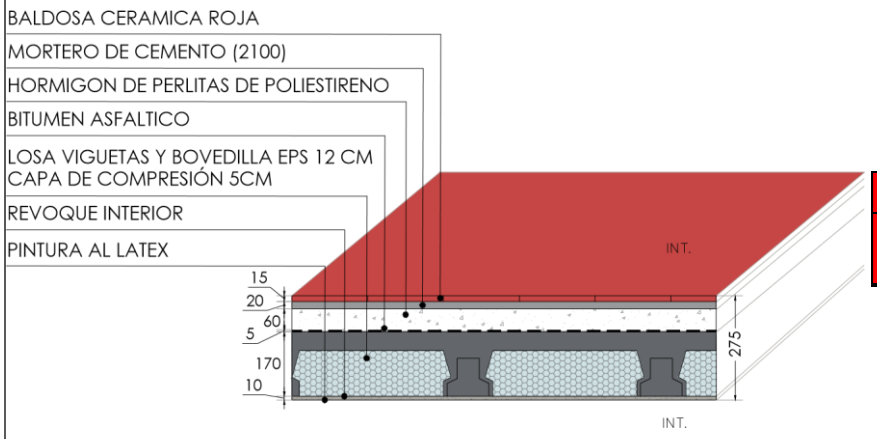

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,66 | 100% | 29,35 | 44,32 | 2,9 | 4589 | 639 |
| INC. FAMILIA | 65,82% | 0% | 100,43% | 95,07% | 69,46% | 100,76% | 87,16% |
| INC. MUNDIAL | 81,48% | 208% | 98,82% | 99,64% | 70,50% | 100,62% | 101,16% |

| VIG-029 | EP | LOSAS VIGUETAS |
|---|---|---|

ENTREPISO DE LOSA DE VIGUETAS Y BLOQUES CERAMICOS H 12 CM, CON CARGA DE PERLAS DE EPS Y TERMINACION CON CERAMICOS.

## INDICE DE TRANSMITANCIA TERMICA "K"

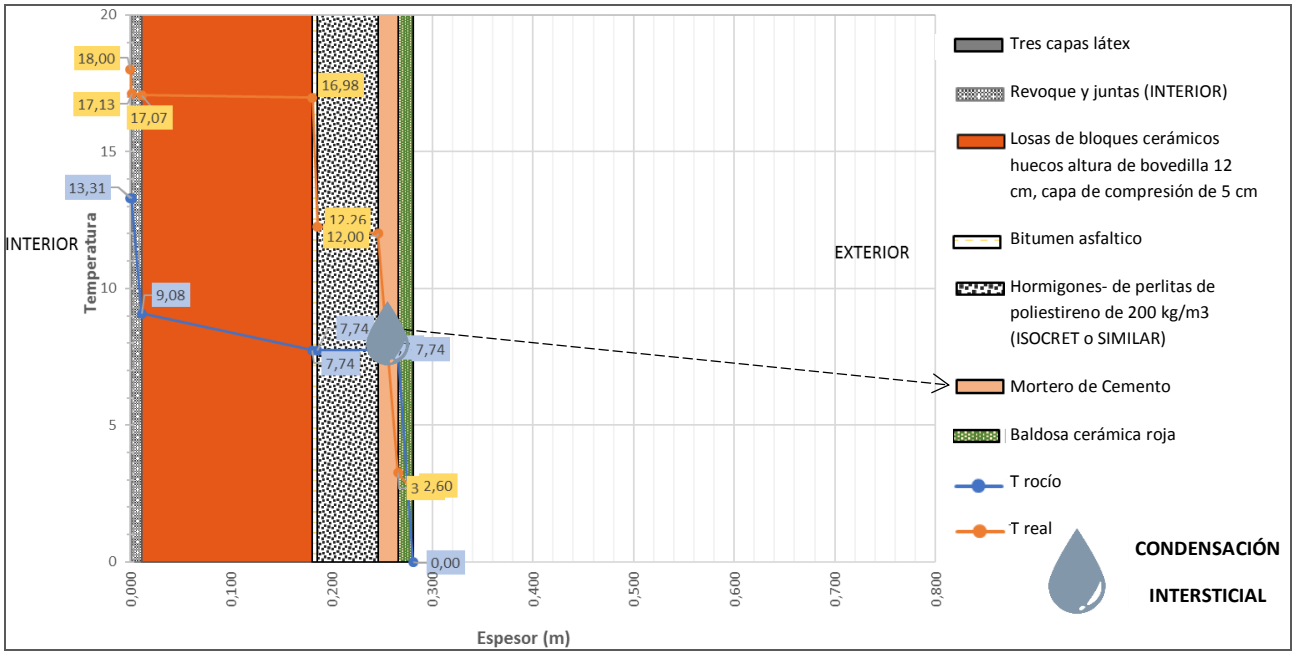
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,55 | 0,57 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 18,4 | 13,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,6** | **8,3** |
| | **Amortiguamiento:** | 0,028 | 0,046 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,6** | **4,5** |
| | **Amortiguamiento:** | 0,104 | 0,307 |

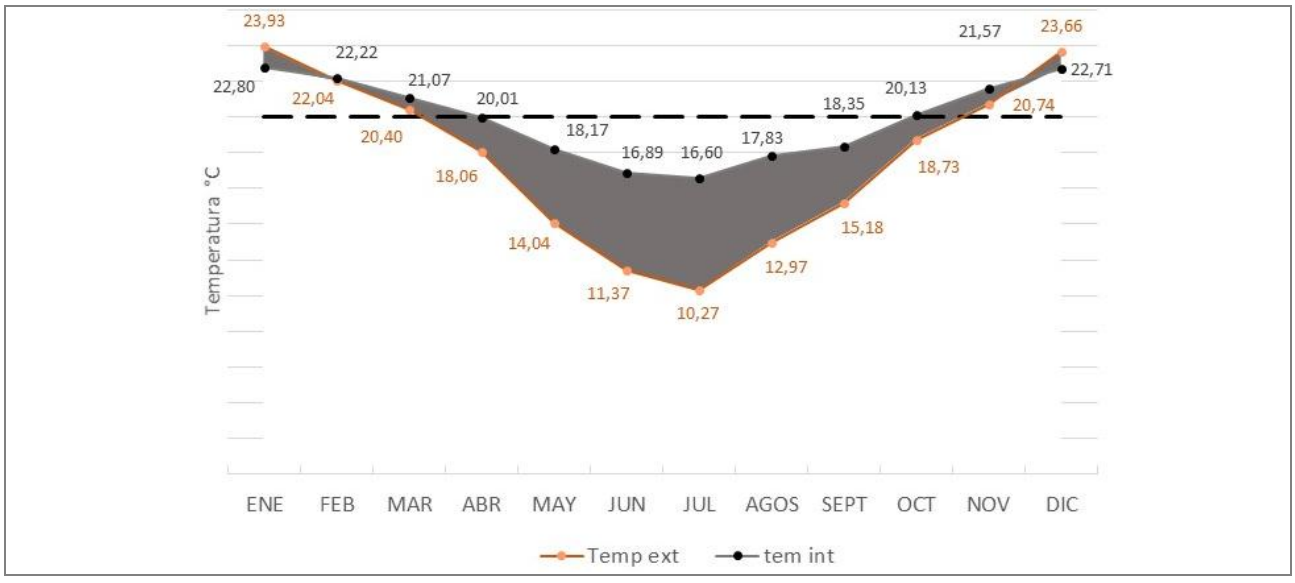
| VIG-029 | EP | LOSAS VIGUETAS |
|---|---|---|

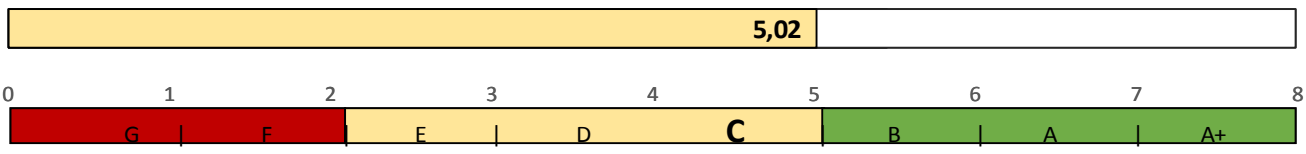
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **26,29** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **13,00** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



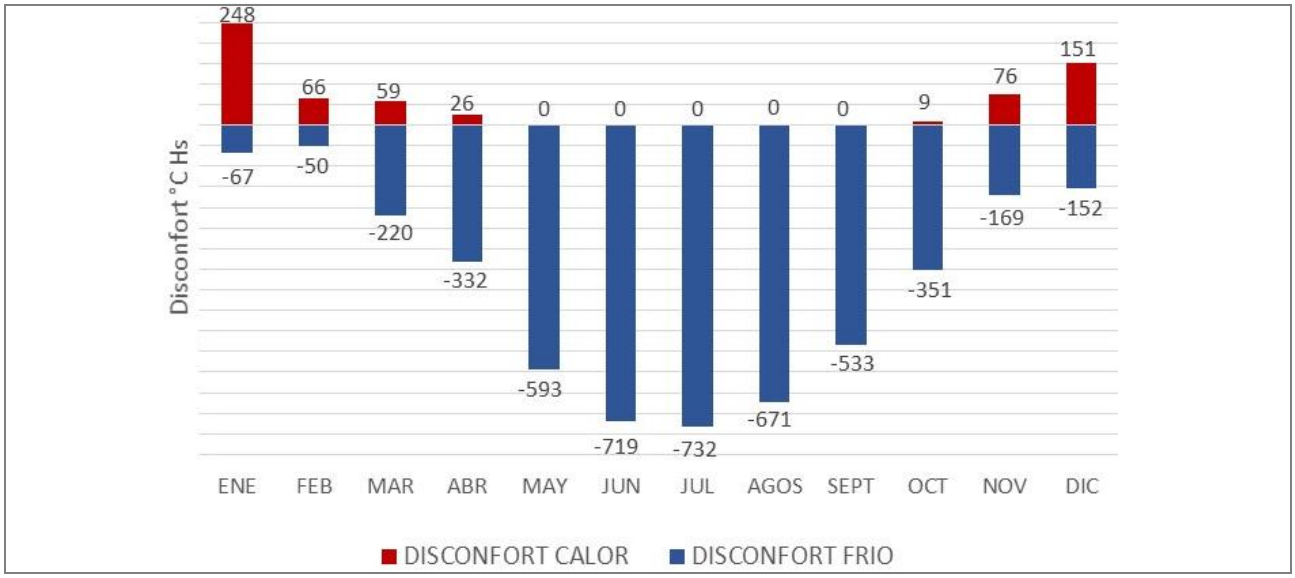




5,02 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| VIG-029 | EP | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

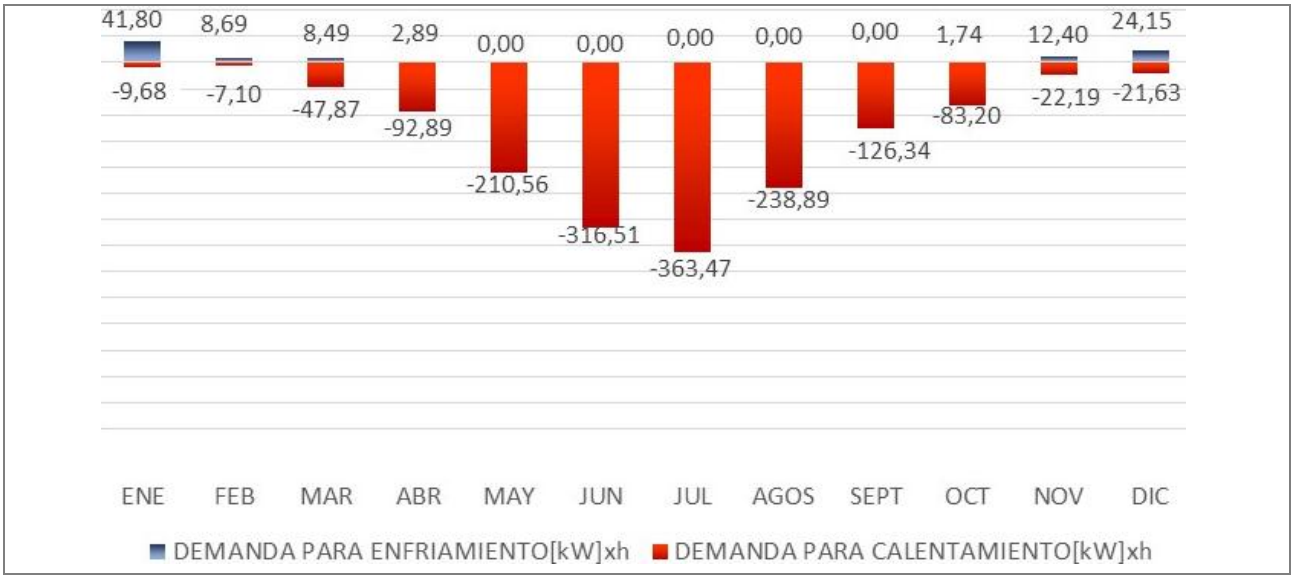
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **635** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRIO | **4.590** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.225** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

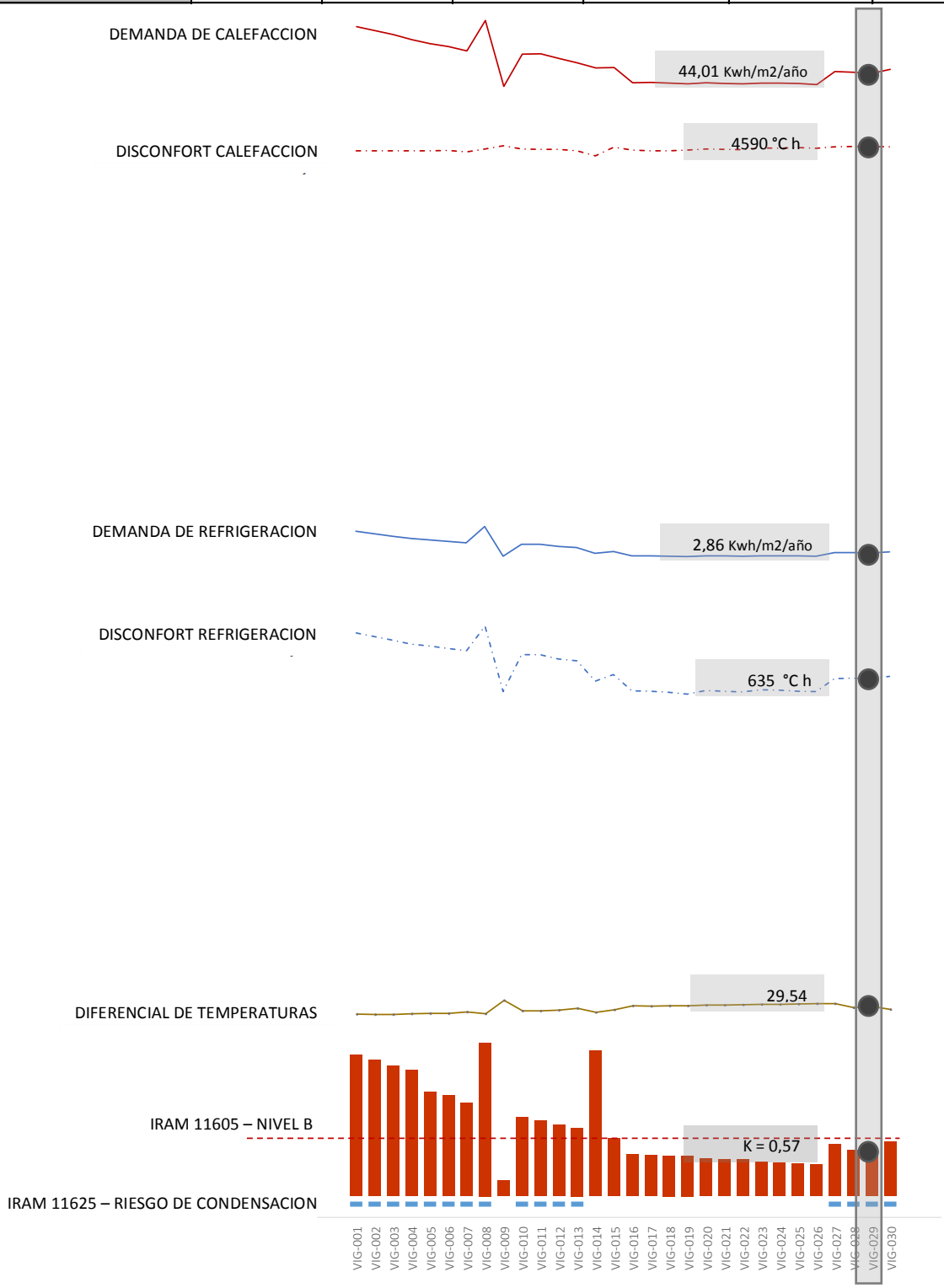



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **100,16** | kWh | 2,86 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.540,33** | kWh | 44,01 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.640,49** | kWh | **46,87** | kWh/m2/año |

| VIG-029 | EP | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 069 | N° 077 | N° 079 | N° 068 | N° 081 | N° 080 |



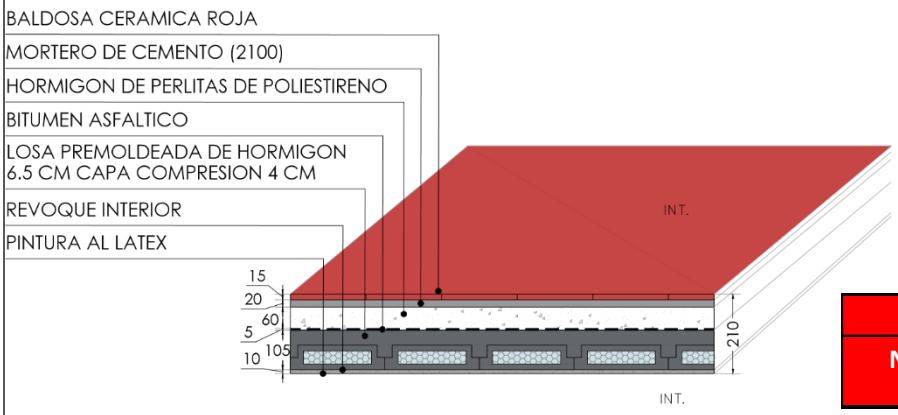

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,57 | 100% | 29,54 | 44,01 | 2,86 | 4590 | 635 |
| INC. FAMILIA | 56,85% | 0% | 101,08% | 94,40% | 68,50% | 100,78% | 86,61% |
| INC. MUNDIAL | 70,37% | 208% | 99,46% | 98,95% | 69,53% | 100,64% | 100,53% |

| VIG-030 | EP | LOSAS VIGUETAS |
|---|---|---|

ENTREPISO DE LOSA DE VIGAS Y PLACAS PREFABRICADAS CON CARGA DE PERLAS DE EPS Y TERMINACION CON CERAMICOS.

## INDICE DE TRANSMITANCIA TERMICA "K"

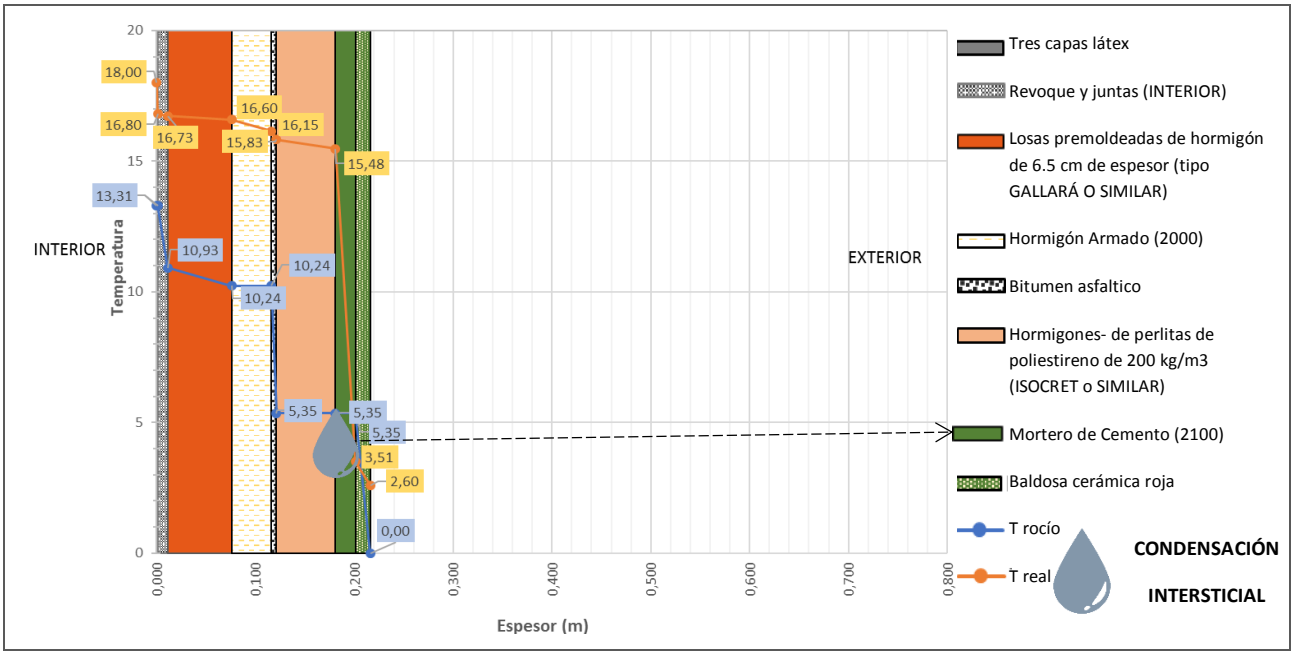
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,74 | 0,78 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 80,8 | 74,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,2** | **13,6** |
| | **Amortiguamiento:** | 0,005 | 0,006 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,8** | **11,9** |
| | **Amortiguamiento:** | 0,101 | 0,044 |

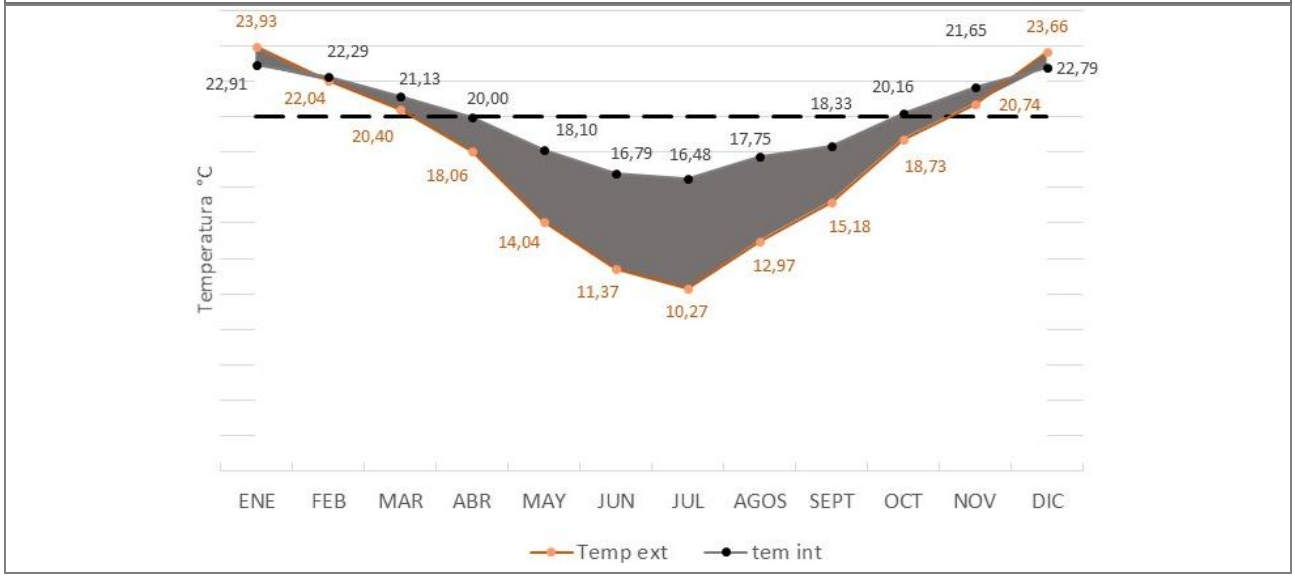
| VIG-030 | EP | LOSAS VIGUETAS |
|---|---|---|

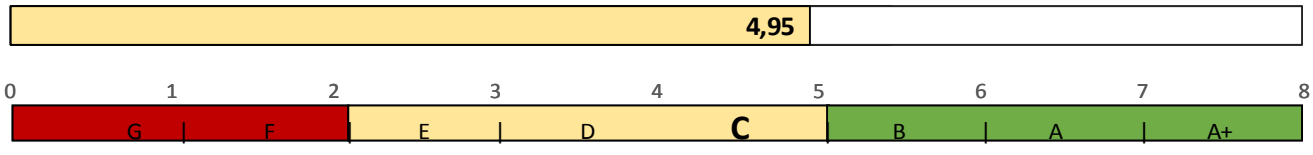
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 05/01 18:00 hs | **26,45** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 24/07 09:00 hs | **12,86** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



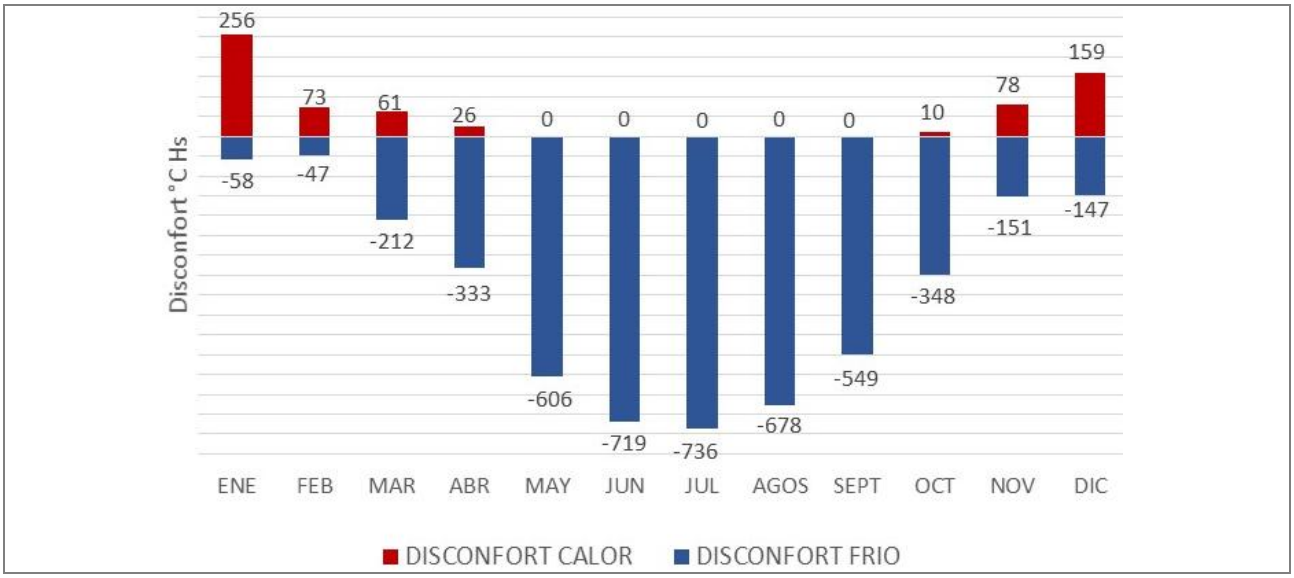




4,95 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| VIG-030 | EP | LOSAS VIGUETAS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

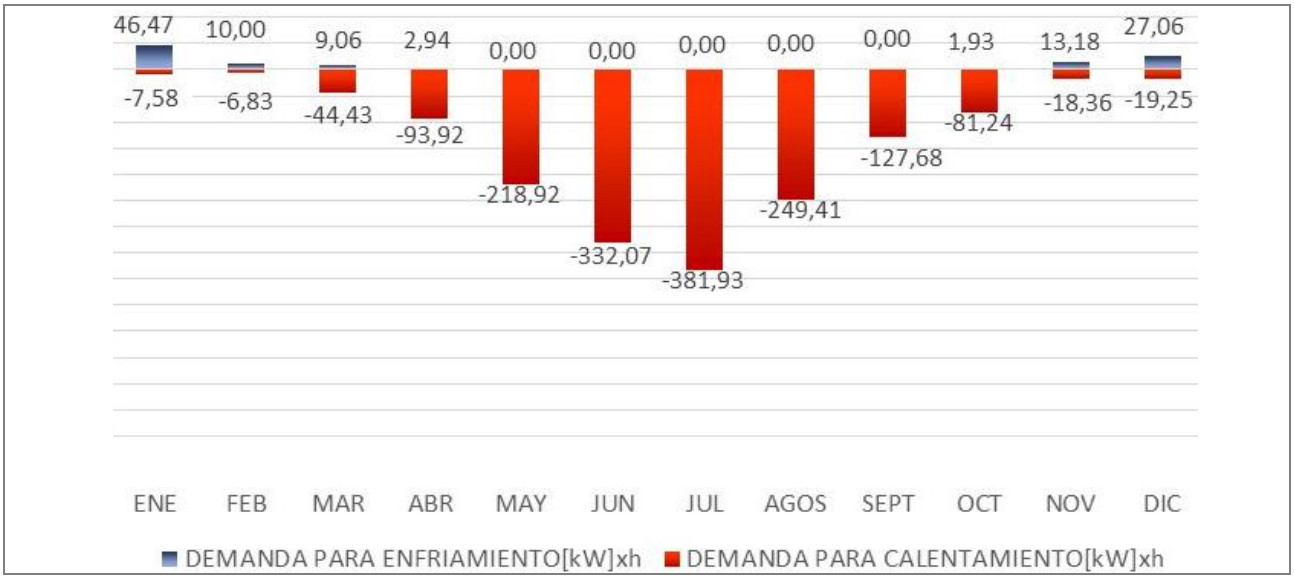
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **663** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRIO | **4.584** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.247** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

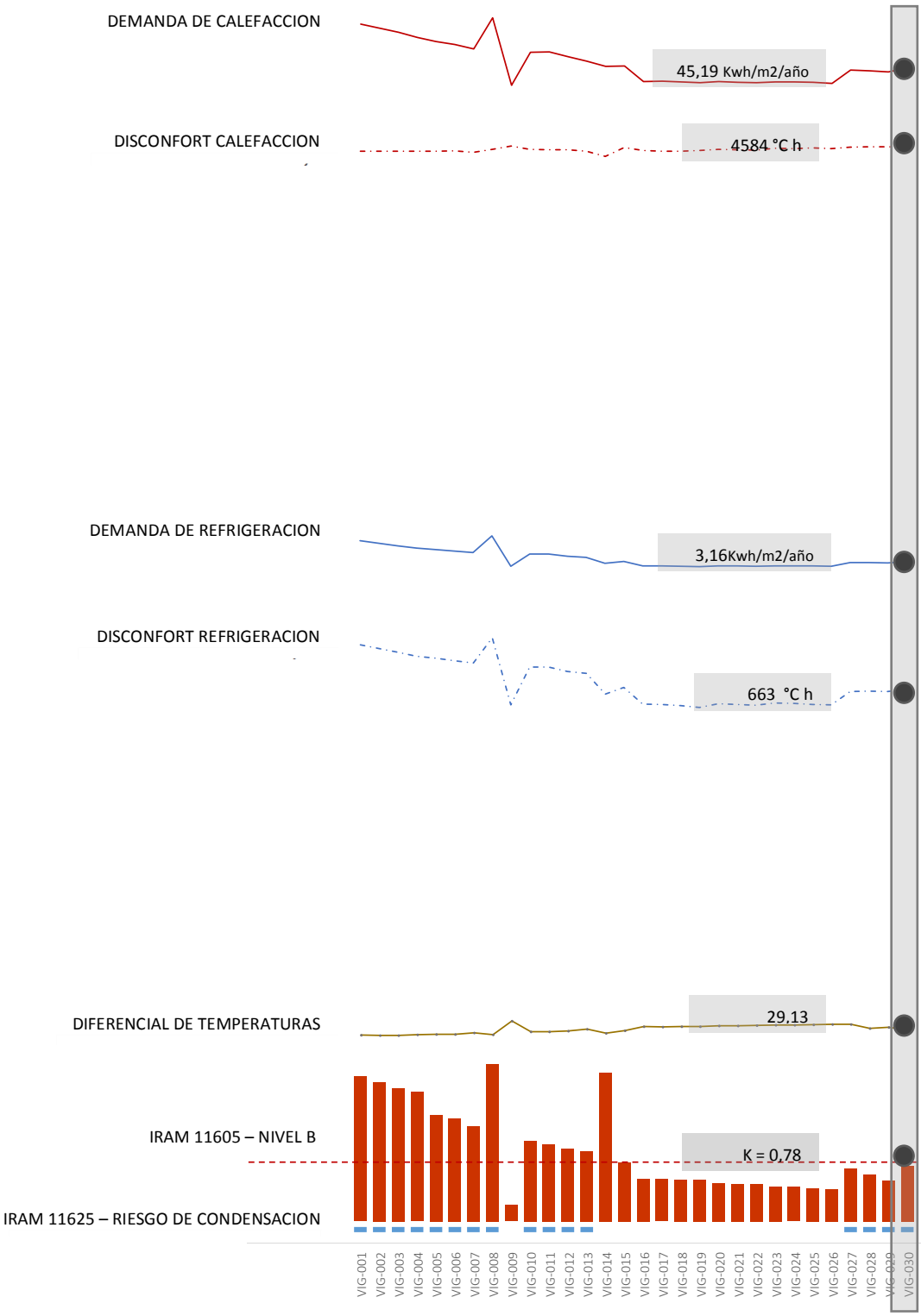



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACION | **110,65** | kWh | 3,16 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCION | **1.581,61** | kWh | 45,19 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.692,26** | kWh | **48,35** | kWh/m2/año |

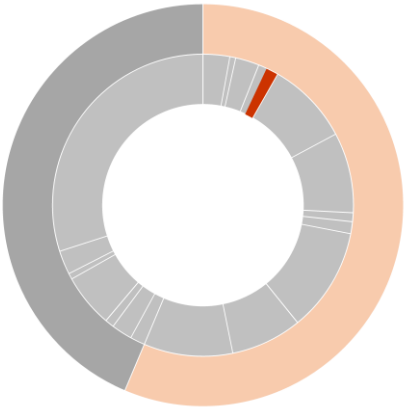
| VIG-030 | EP | LOSAS VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 088 | N° 093 | N° 094 | N° 087 | N° 075 | N° 092 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,00 | 73% | 29,23 | 46,62 | 4,18 | 4554 | 733 |
| INDIVIDUAL | 0,78 | 100% | 29,13 | 45,19 | 3,16 | 4584 | 663 |
| INC. FAMILIA | 77,79% | 0% | 99,67% | 96,94% | 75,68% | 100,65% | 90,43% |
| INC. MUNDIAL | 96,30% | 208% | 98,08% | 101,60% | 76,82% | 100,51% | 104,96% |



# BLOQUE HORMIGON

**BLH 001**: MURO DOBLE LADRILLO VISTO EXTERIOR CON BLOQUE Hº 9,2 CM Y REVOQUE INTERIOR.

**BLH 002**: MURO DE BLOQUE DE HORMIGON 39 x 19 x 19 cm) - VISTO EN AMBAS CARAS.

**BLH 003:** MURO DE BLOQUES DE HORMIGÓN (39 x 19 x 19 cm) CON REVOQUE A LA CAL AL FIELTRO EN AMBAS CARAS.

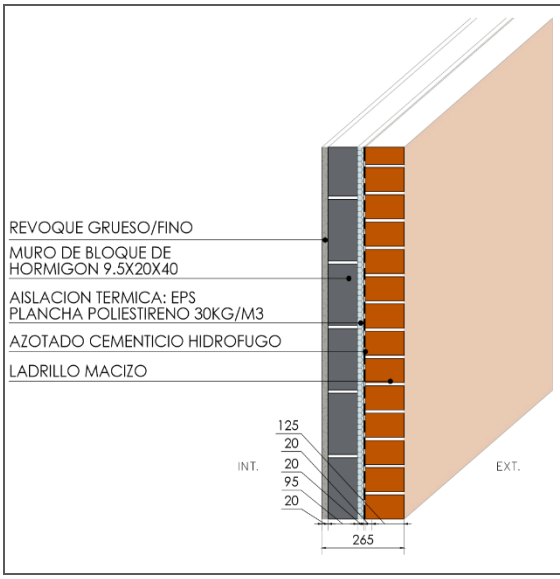
**BLH 004:** BLOQUES DE HORMIGON (39X19X19) CON POLIESTIRENO EXPANDIDO EN PLANCHA Y REVOQUE EN AMBAS CARAS.

| BLH-001 | MU | BLOQUE DE HORMIGON |
|---|---|---|

MURO DOBLE LADRILLO VISTO EXTERIOR CON BLOQUE Hº 9,2 CM Y REVOQUE INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

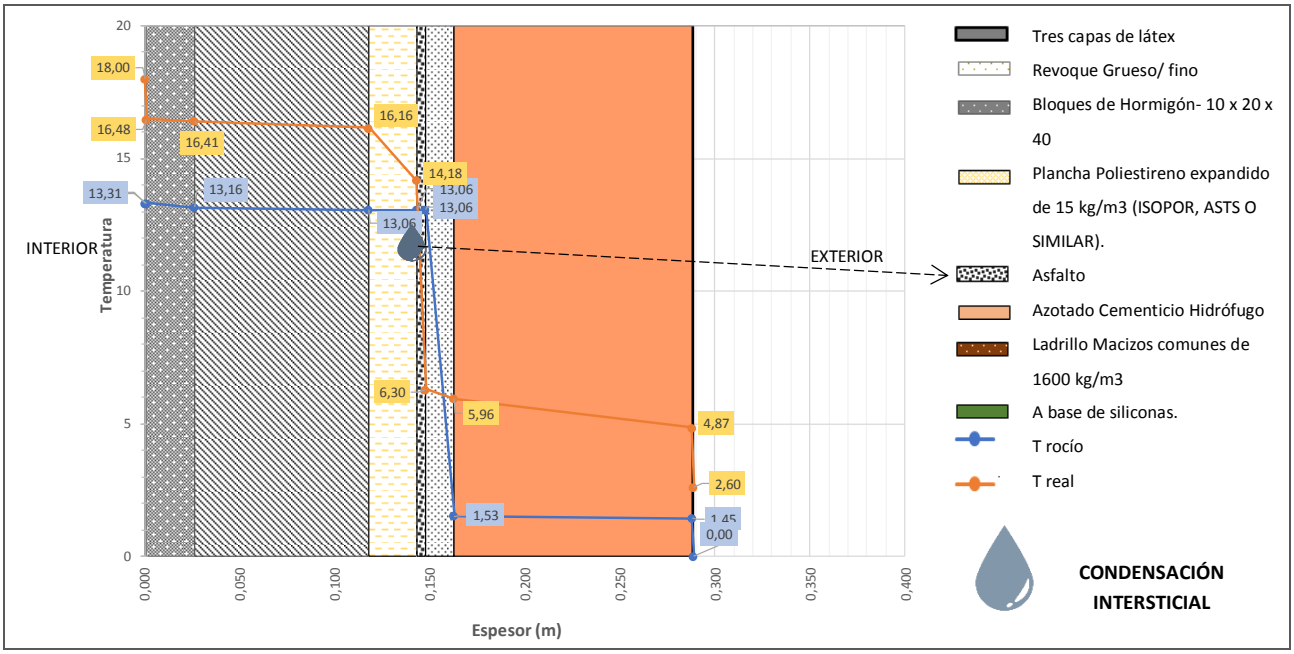
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,76 | 0,76 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



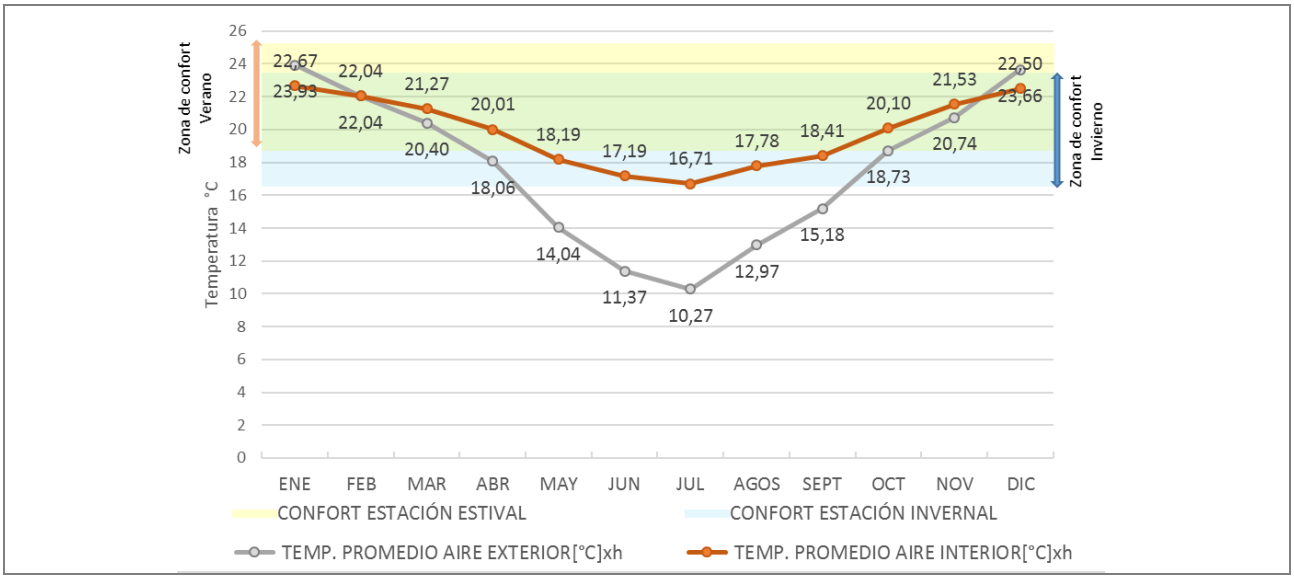

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | 69,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | **13,2** |
| | **Amortiguamiento:** | | 0,007 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,5** | **16,1** |
| | **Amortiguamiento:** | 0,038 | 0,015 |

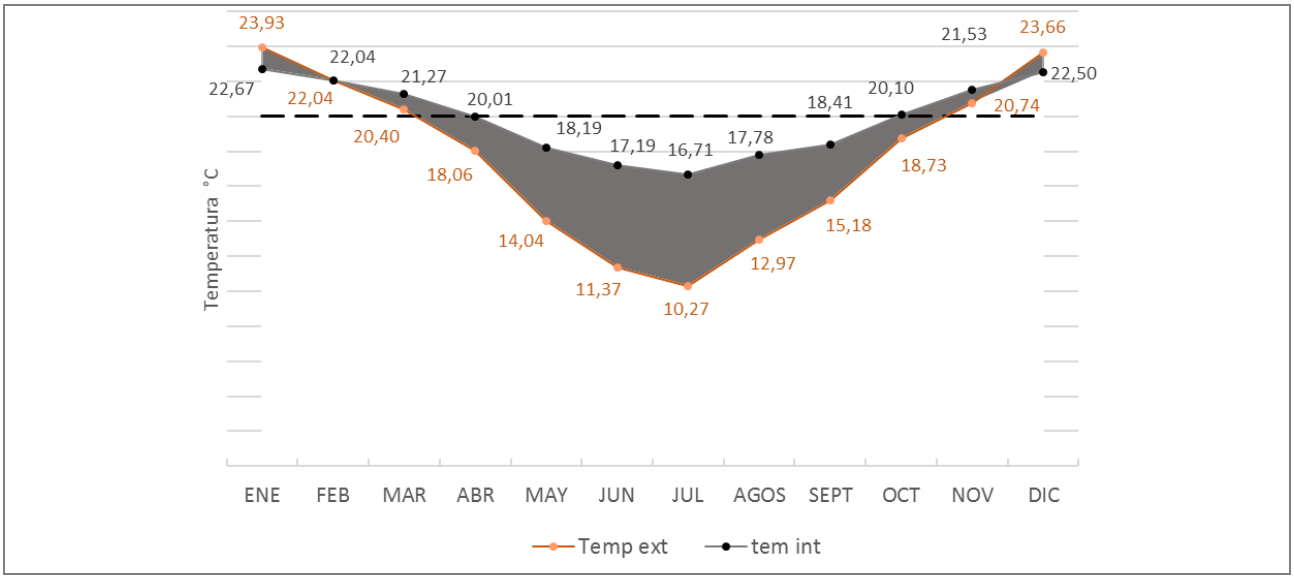
| BLH-001 | MU | BLOQUE DE HORMIGON |
|---|---|---|

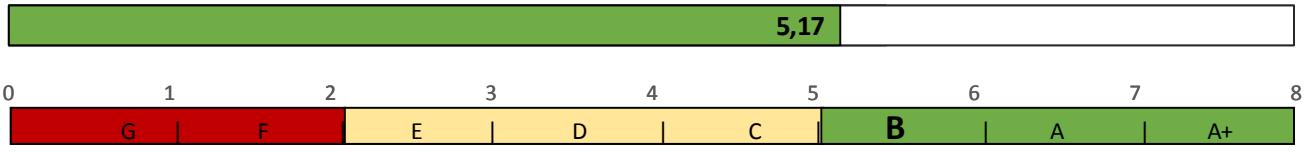
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,94** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,51** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



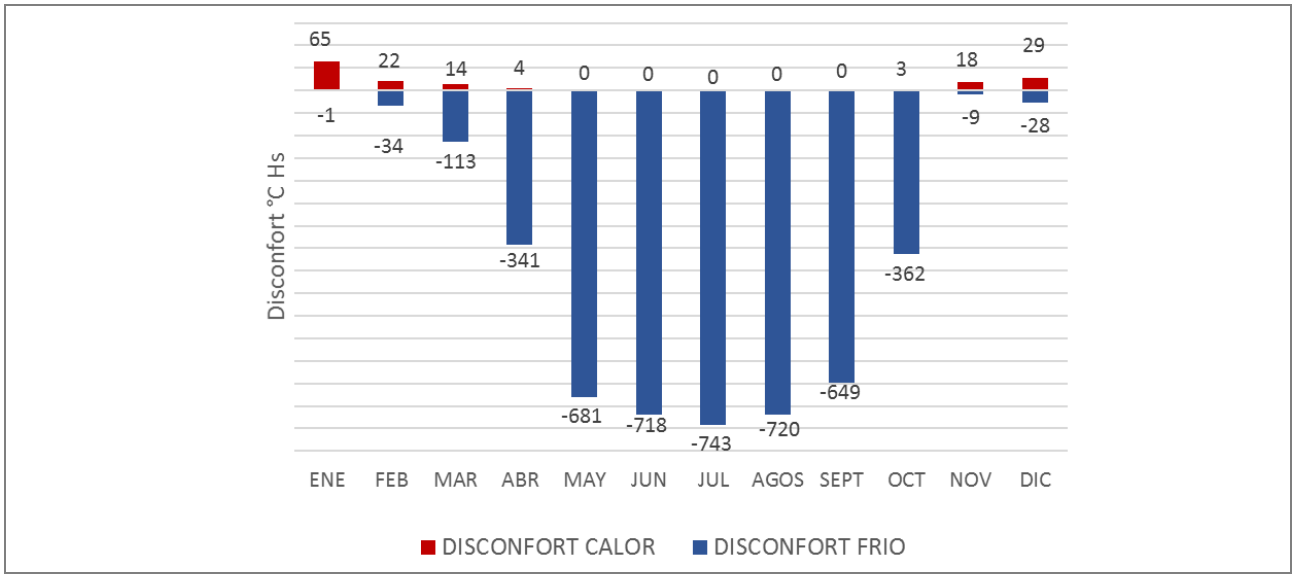




5,17 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| BLH-001 | MU | BLOQUE DE HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

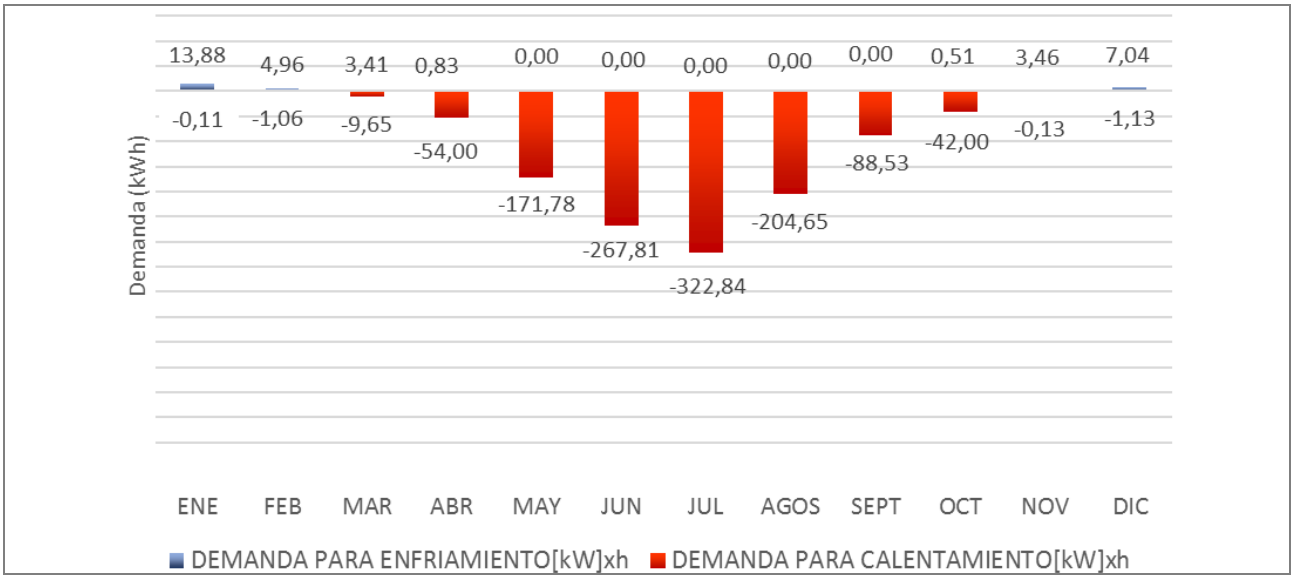
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **155** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.398** | °C Hs | 50% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.554** | **°C Hs** | **52%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

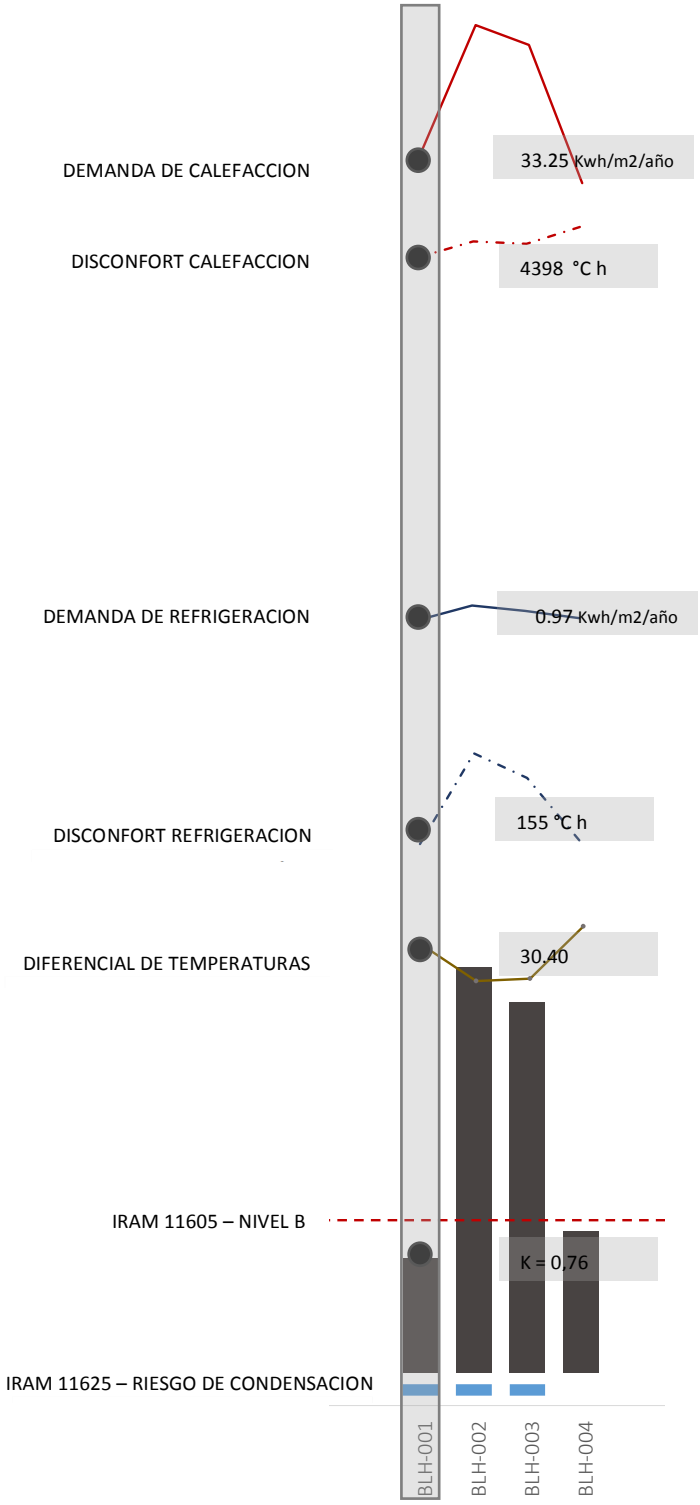



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **34,09** | kWh | 0,97 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.163,68** | kWh | 33,25 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.197,77** | kWh | **34,22** | kWh/m2/año |

| BLH-001 | MU | BLOQUE DE HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 160 | N° 154 | N° 137 | N° 025 | N° 009 | N° 027 |



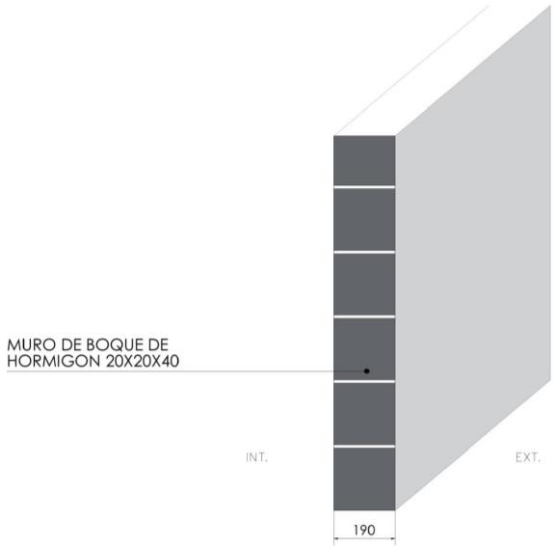

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,72 | 75% | 29,56 | 40,31 | 1,86 | 4477 | 384 |
| INDIVIDUAL | 0,76 | 100% | 30,40 | 33,25 | 0,97 | 4398 | 155 |
| INC. FAMILIA | 44,25% | 133,33% | 102,83% | 82,49% | 52,08% | 98,24% | 40,39% |
| INC. MUNDIAL | 63,90% | 357,05% | 98,66% | 80,85% | 16,16% | 98,58% | 30,32% |

| BLH-002 | MU | BLOQUE DE HORMIGON |
|---|---|---|

MURO DE BLOQUE DE HORMIGON 39 x 19 x 19 cm) - VISTO EN AMBAS CARAS.

## INDICE DE TRANSMITANCIA TERMICA "K"

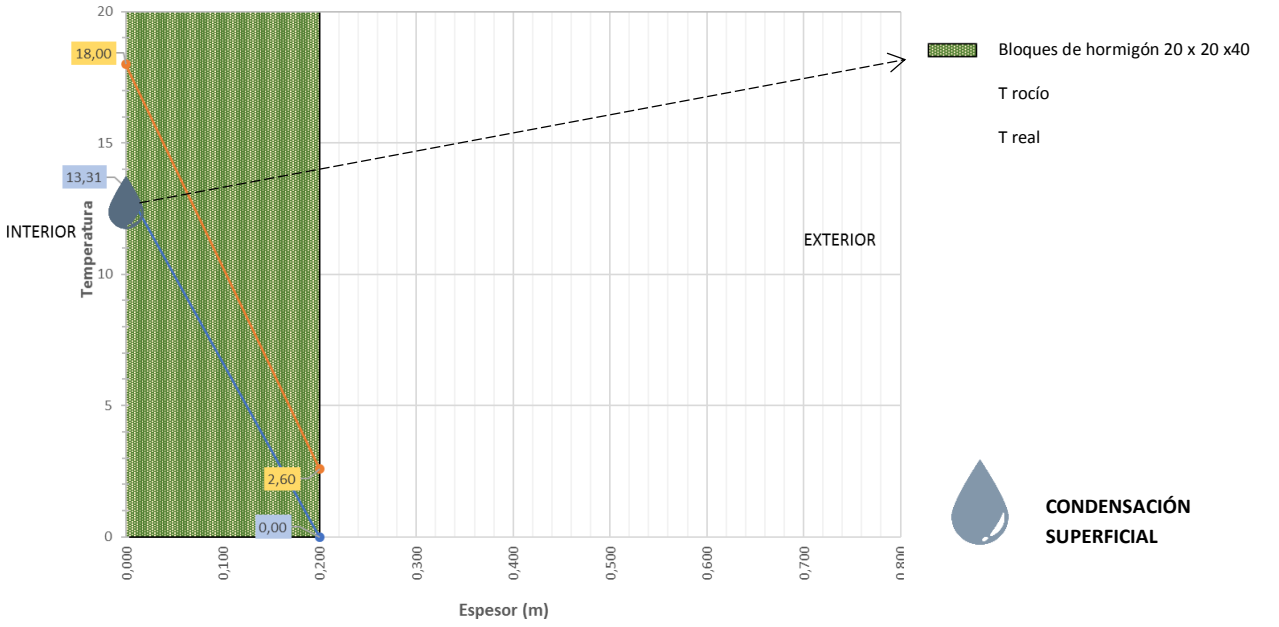
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 2,70 | 2,70 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| ADMISIVIDAD EQUIVALENTE (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | | |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,4** | **4,2** |
| | **Amortiguamiento:** | 0,243 | 0,331 |

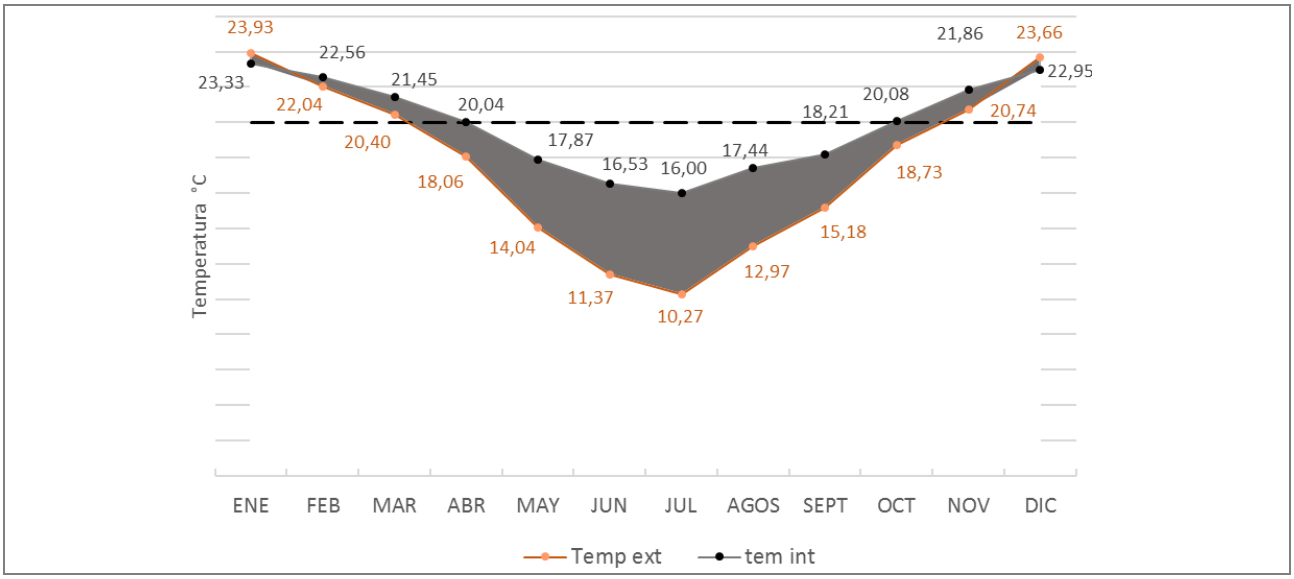
| BLH-002 | MU | BLOQUE DE HORMIGON |
|---|---|---|

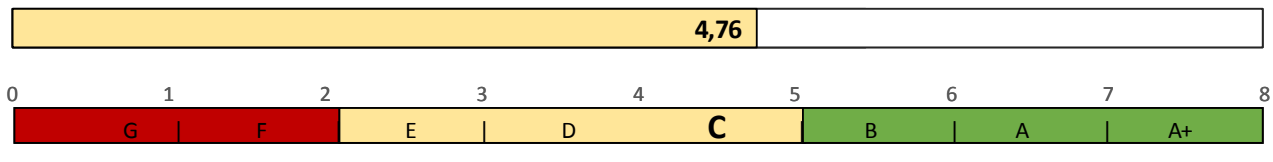
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,09** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,00** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



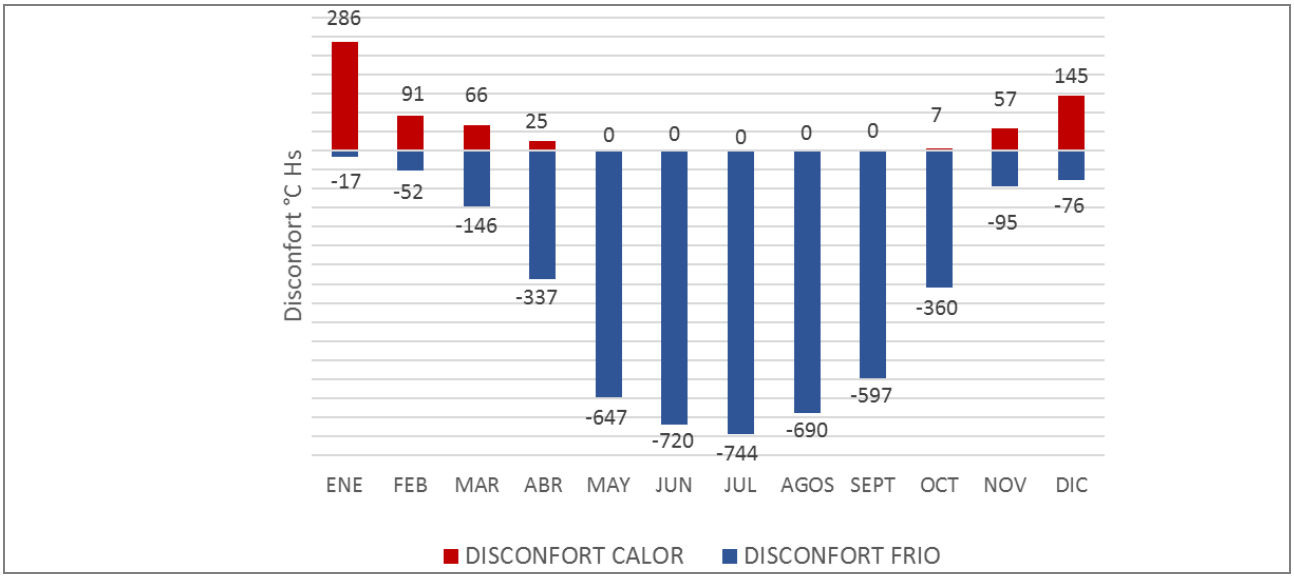




4.76 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.60

| BLH-002 | MU | BLOQUE DE HORMIGON |
|---|---|---|

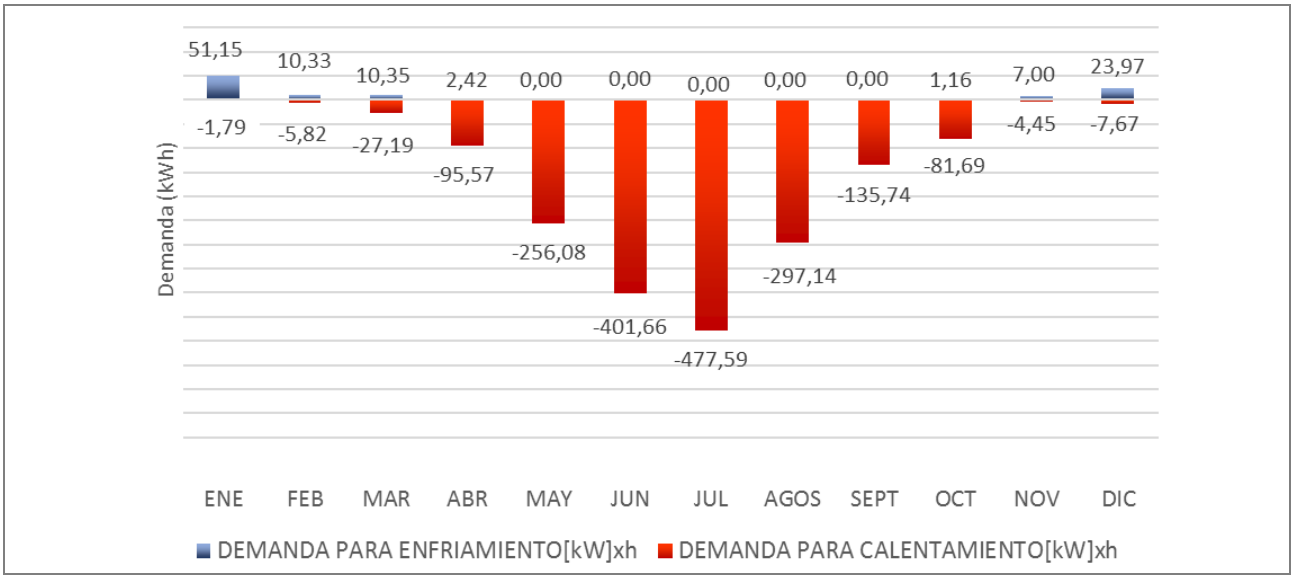
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **677** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.481** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.158** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

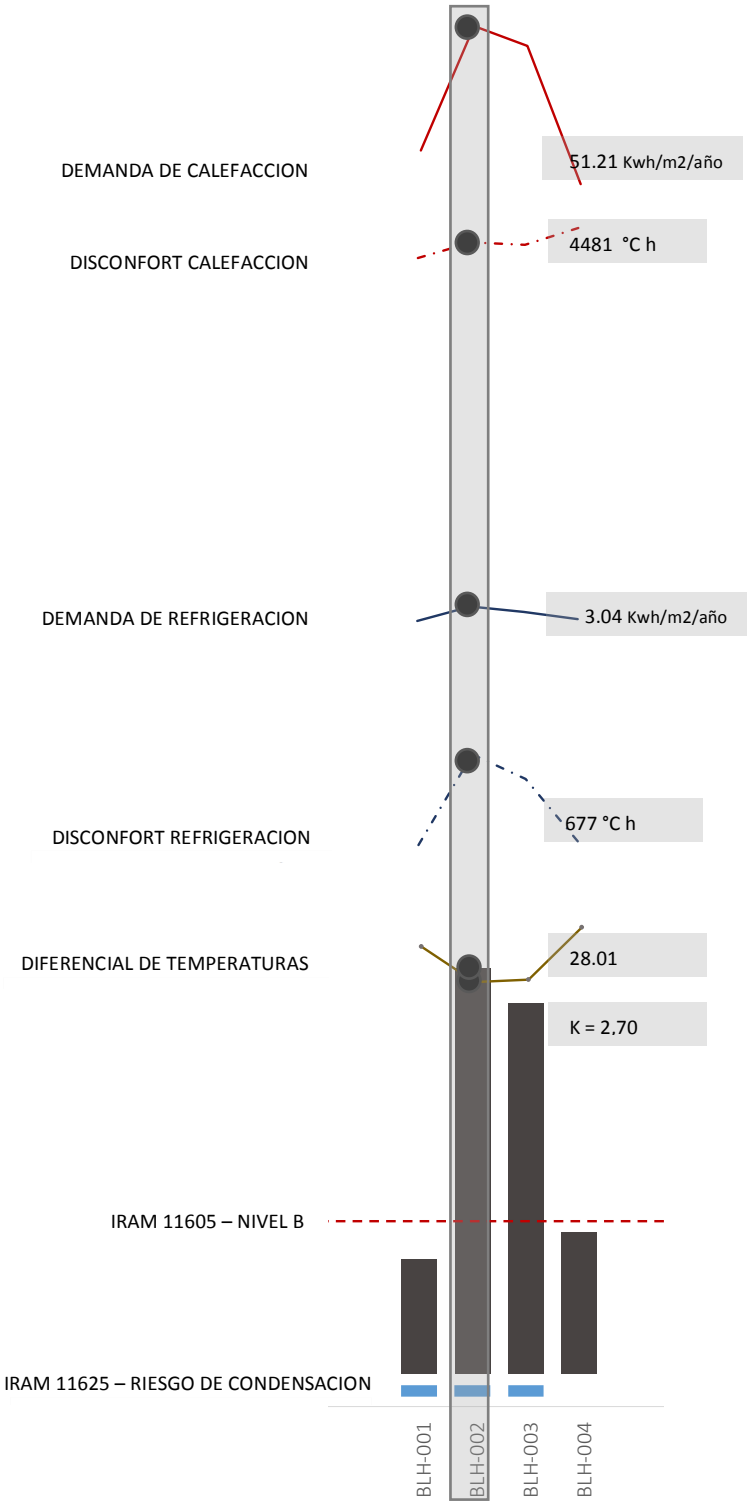



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **106,37** | kWh | 3,04 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.792,38** | kWh | 51,21 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.898,75** | kWh | **54,25** | kWh/m2/año |

| BLH-002 | MU | BLOQUE DE HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 190 | N° 193 | N° 182 | N° 167 | N° 032 | N° 180 |



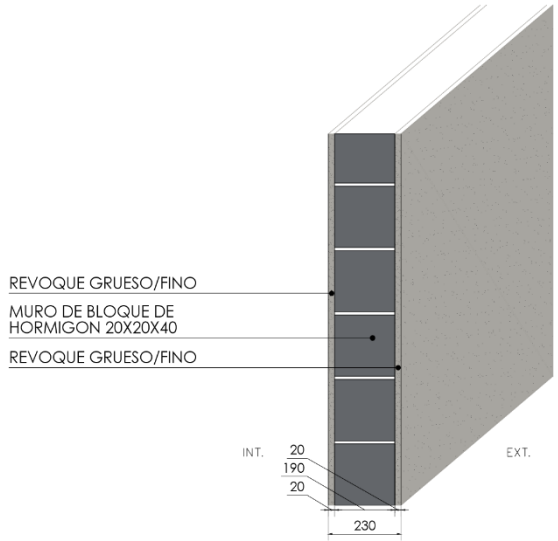

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,72 | 75% | 29,56 | 40,31 | 1,86 | 4477 | 384 |
| INDIVIDUAL | 2,7 | 100% | 28,01 | 51,21 | 3,04 | 4481 | 677 |
| INC. FAMILIA | 157,21% | 133,33% | 94,75% | 127,05% | 163,22% | 100,09% | 176,42% |
| INC. MUNDIAL | 227,01% | 357,05% | 90,90% | 124,52% | 50,65% | 100,44% | 132,45% |

| BLH-003 | MU | BLOQUE DE HORMIGON |
|---|---|---|

MURO DE BLOQUES DE HORMIGÓN (39 x 19 x 19 cm) CON REVOQUE A LA CAL AL FIELTRO EN AMBAS CARAS.

## INDICE DE TRANSMITANCIA TERMICA "K"

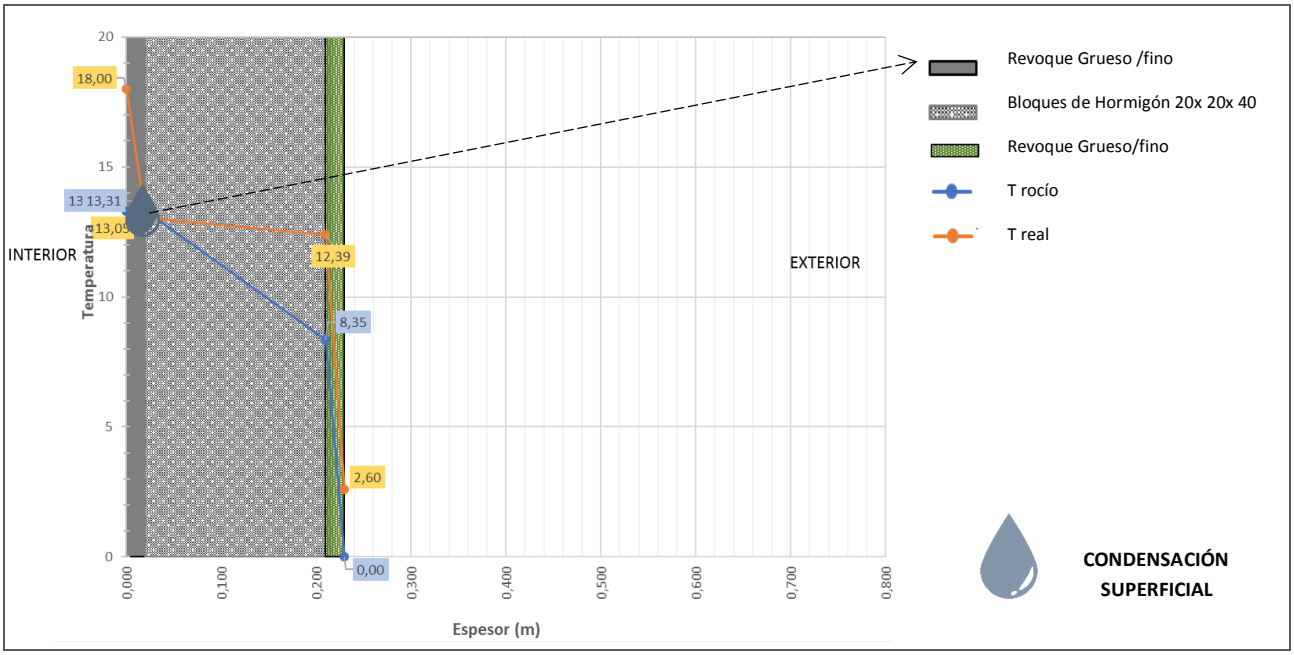
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 2,47 | 2,47 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



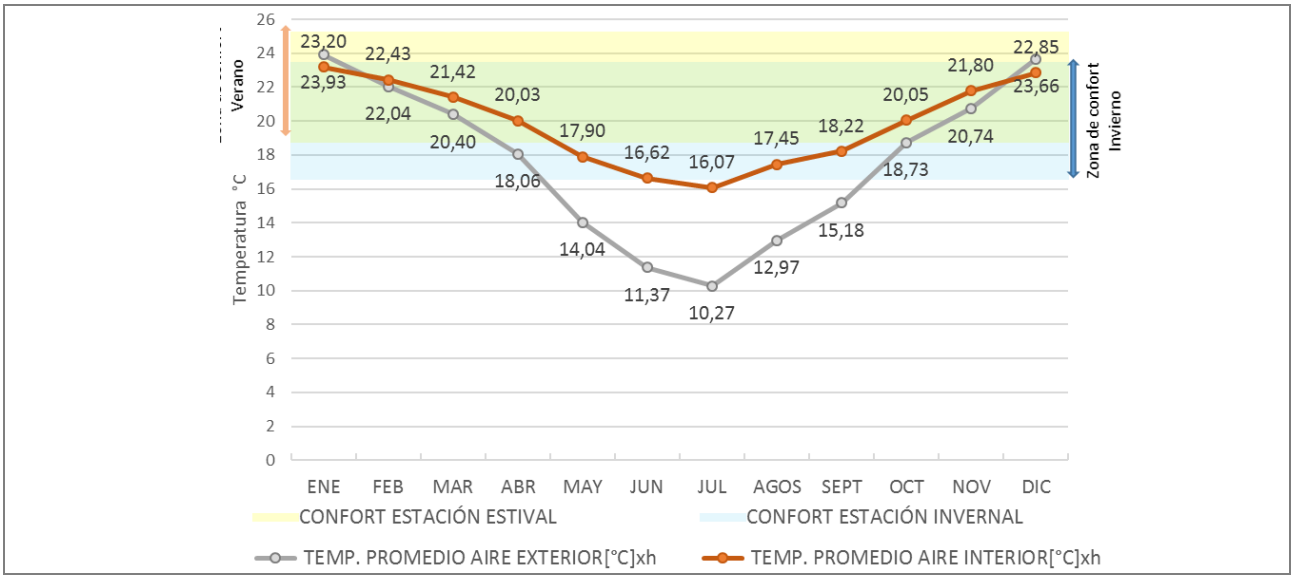

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 46,9 | 87,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **2,2** | **3,0** |
| | **Amortiguamiento:** | 0,440 | 0,373 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,3** | **5,0** |
| | **Amortiguamiento:** | 0,194 | 0,270 |

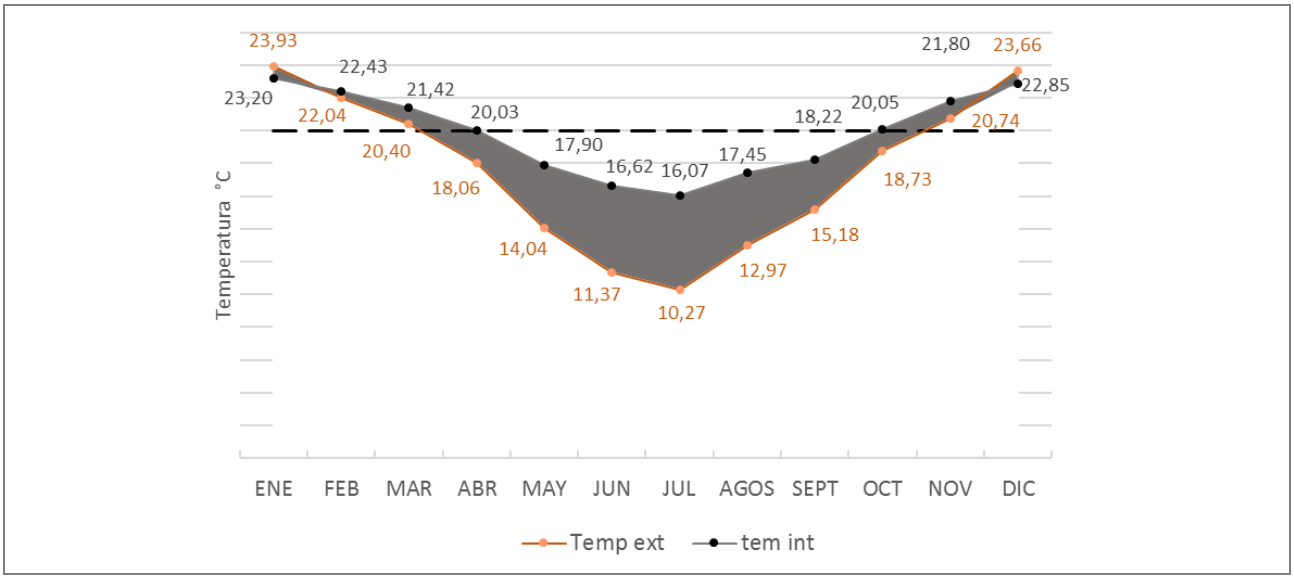
| BLH-003 | MU | BLOQUE DE HORMIGON |
|---|---|---|

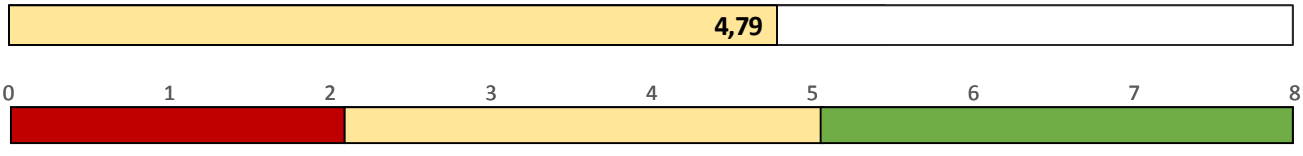
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **25,96** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **13,35** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



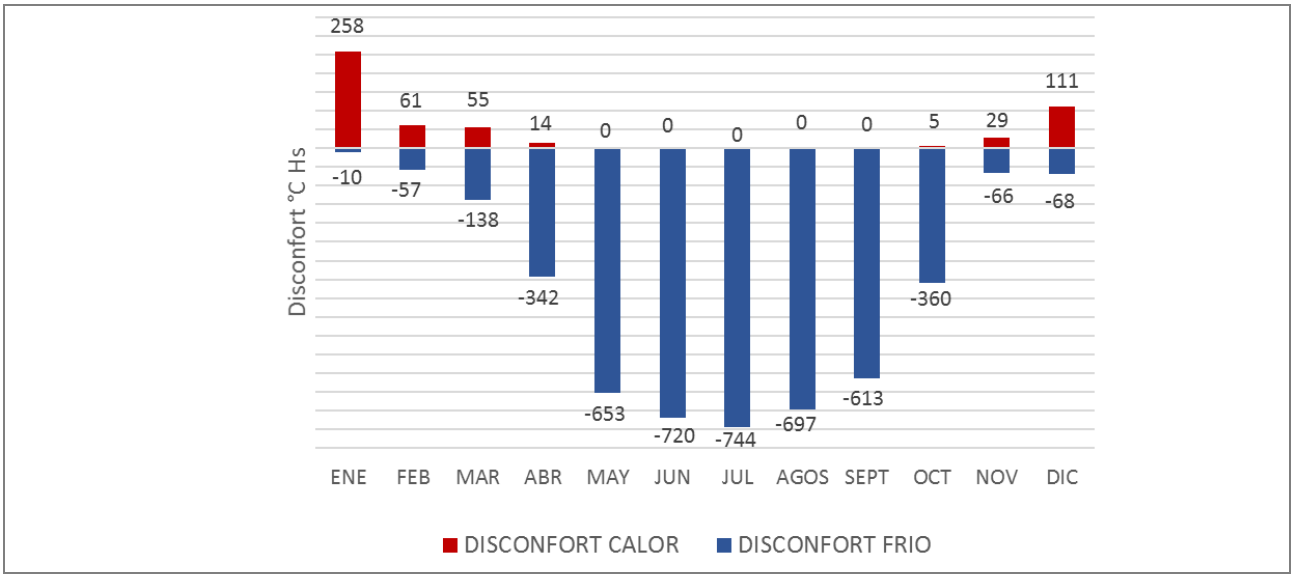




4,79 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,60

| BLH-003 | MU | BLOQUE DE HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

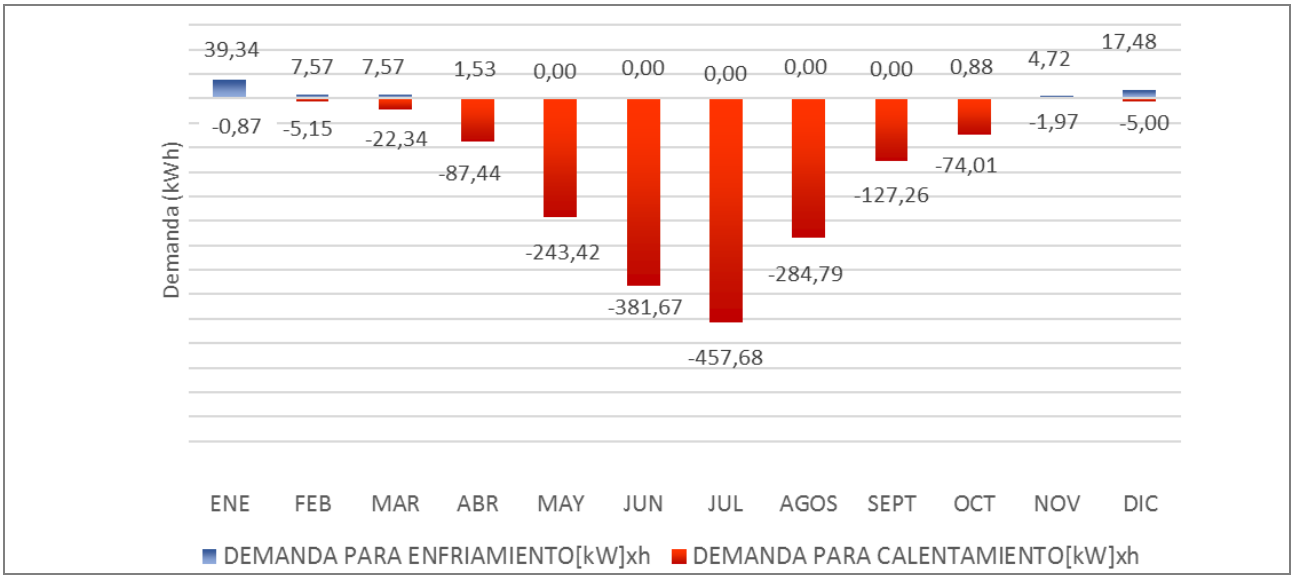
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **534** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.468** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.002** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

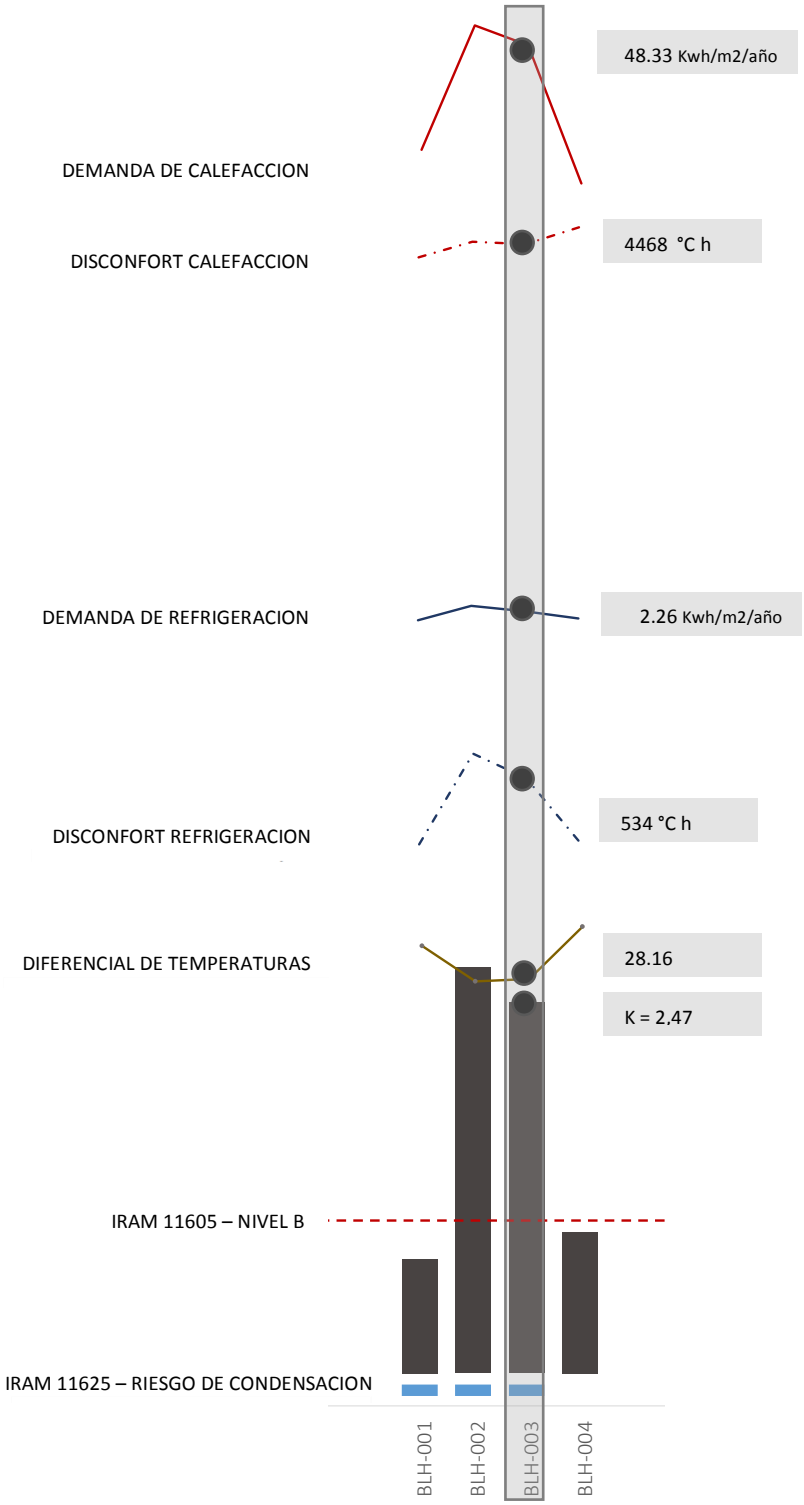



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **79,08** | kWh | 2,26 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.691,59** | kWh | 48,33 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.770,67** | kWh | **50,59** | kWh/m2/año |

| BLH-003 | MU | BLOQUE DE HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 188 | N° 192 | N° 180 | N° 156 | N° 023 | N° 174 |



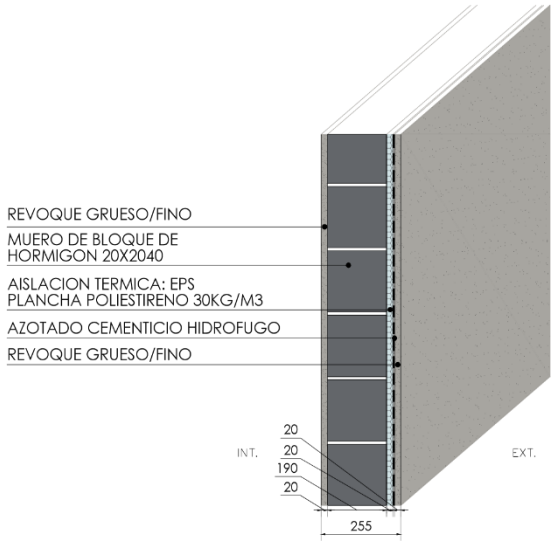

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,72 | 75% | 29,56 | 40,31 | 1,86 | 4477 | 384 |
| INDIVIDUAL | 2,47 | 100% | 28,16 | 48,33 | 2,26 | 4468 | 534 |
| INC. FAMILIA | 143,81% | 133,33% | 95,26% | 119,90% | 121,34% | 99,80% | 139,15% |
| INC. MUNDIAL | 207,67% | 357,05% | 91,39% | 117,52% | 37,66% | 100,14% | 104,47% |

| BLH-004 | MU | BLOQUE DE HORMIGON |
|---|---|---|

BLOQUES DE HORMIGON (39X19X19) CON POLIESTIRENO EXPANDIDO EN PLANCHA Y REVOQUE EN AMBAS CARAS.

## INDICE DE TRANSMITANCIA TERMICA "K"

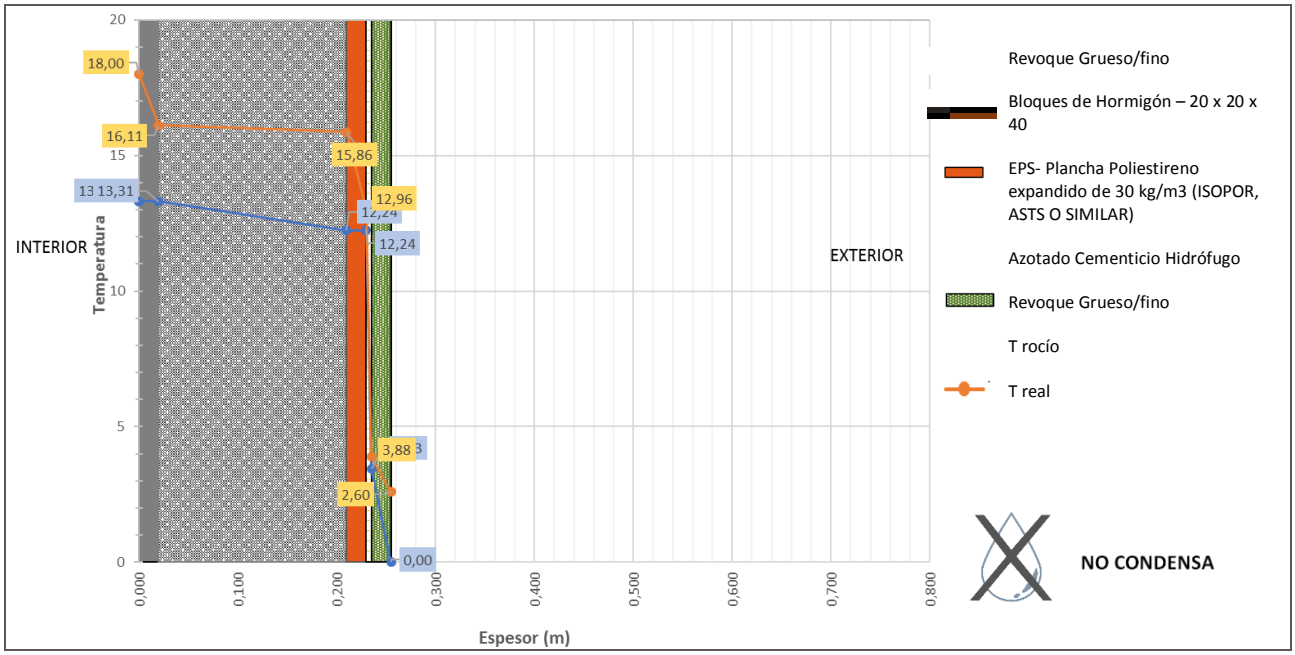
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,94 | 0,94 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



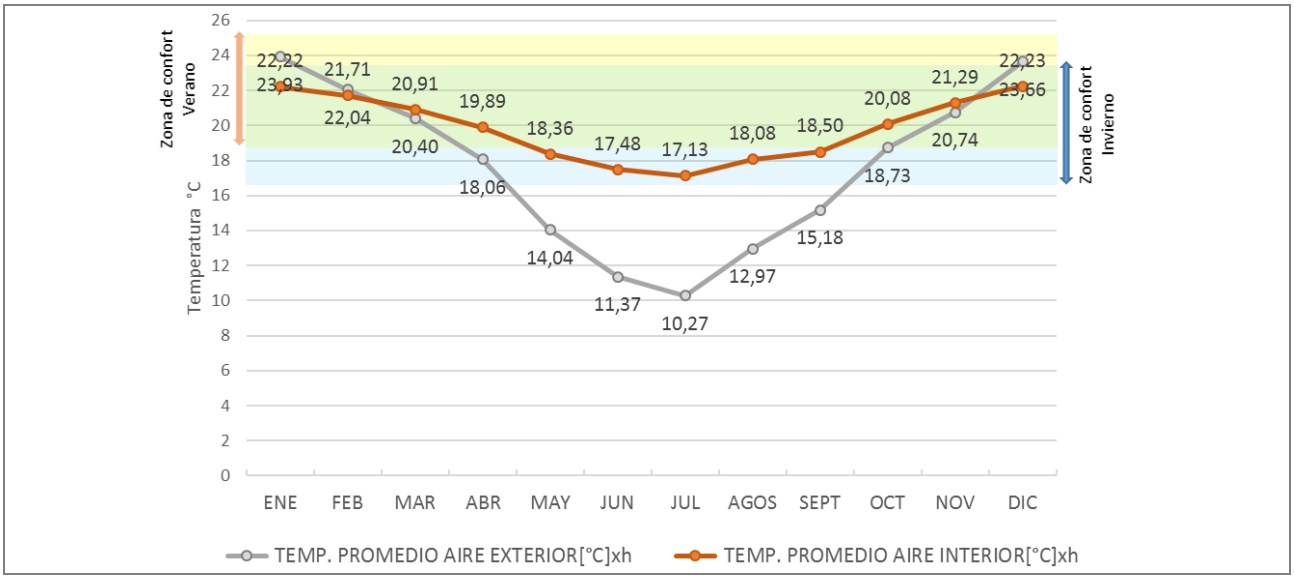

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 12,4 | Invierno 12,4 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,3** | **4,3** |
| | **Amortiguamiento:** | 0,201 | 0,201 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,2** | **10,8** |
| | **Amortiguamiento:** | 0,152 | 0,059 |

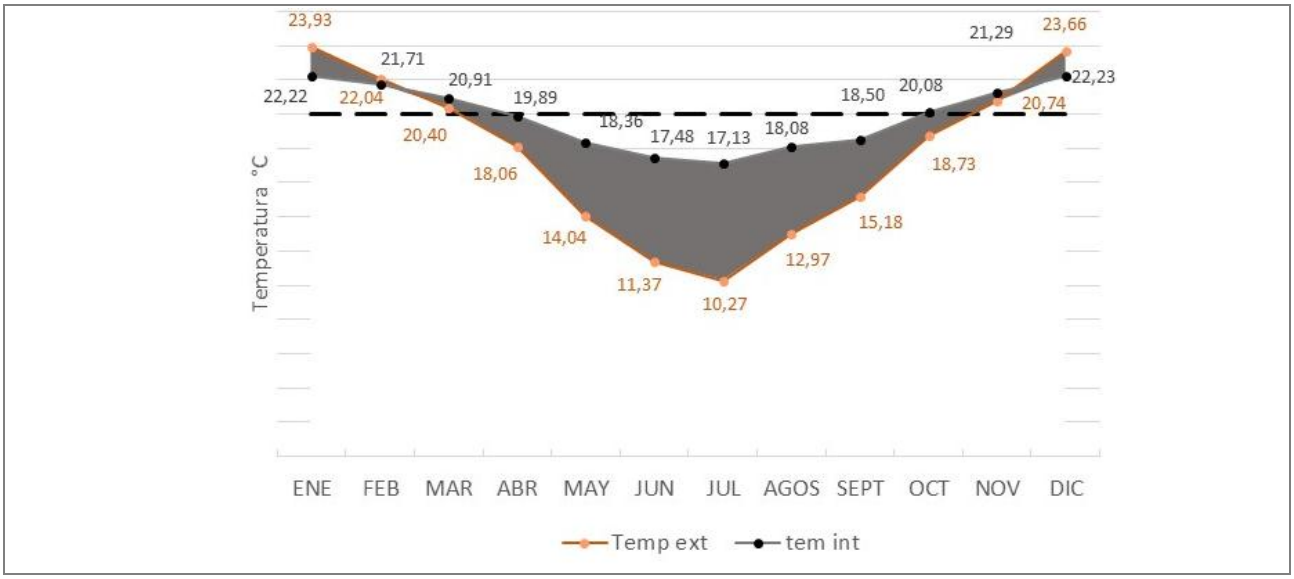
| BLH-004 | MU | BLOQUE DE HORMIGON |
|---|---|---|

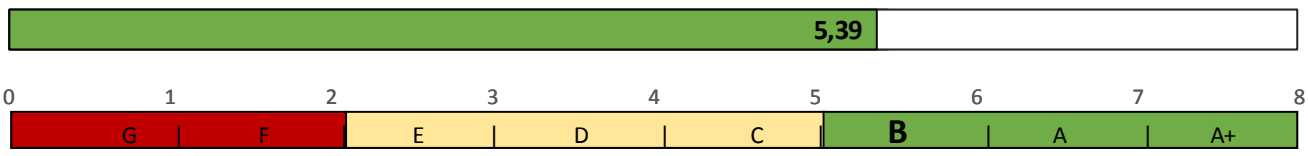
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 16:00 hs | **24,66** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,80** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



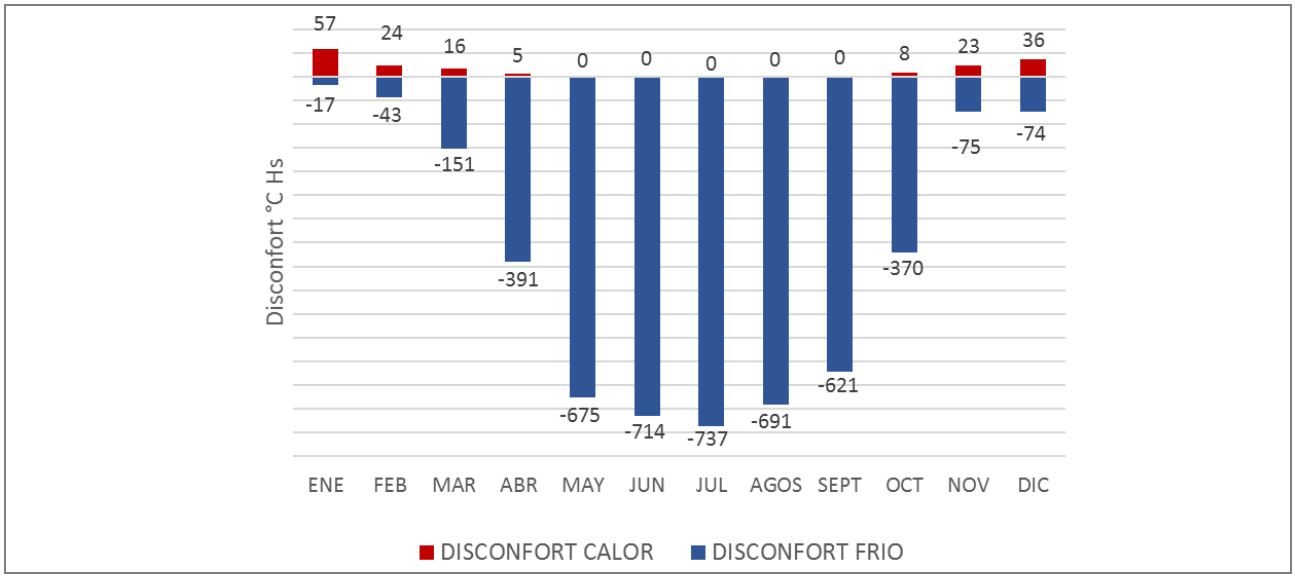




5,39 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| BLH-004 | MU | BLOQUE DE HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

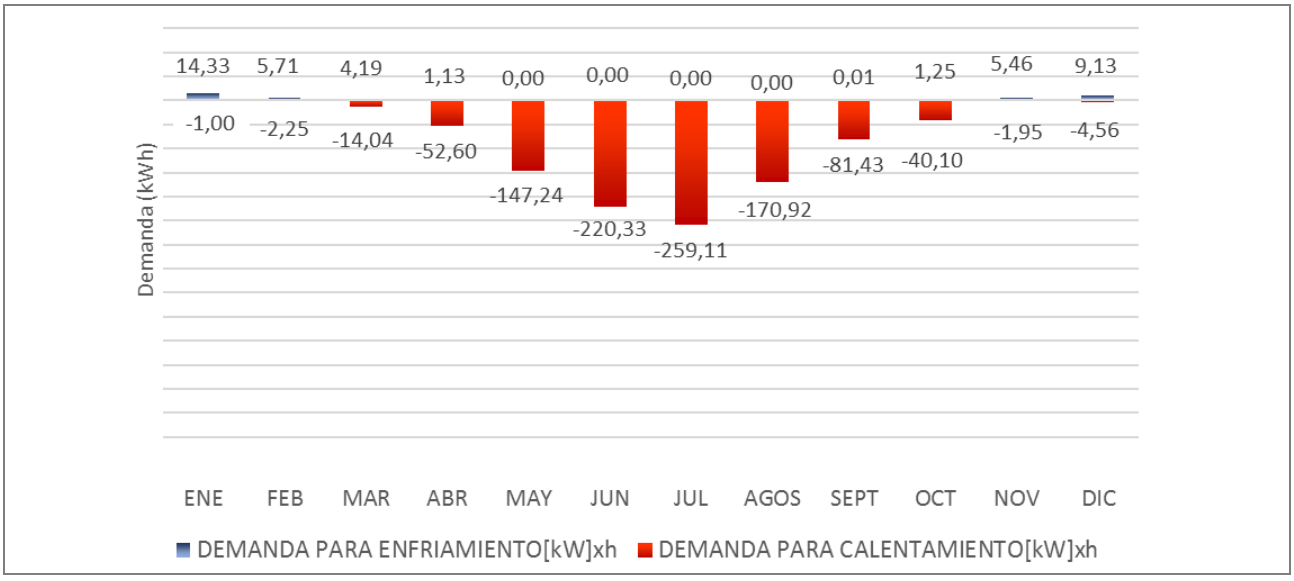
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **169** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.560** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.729** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

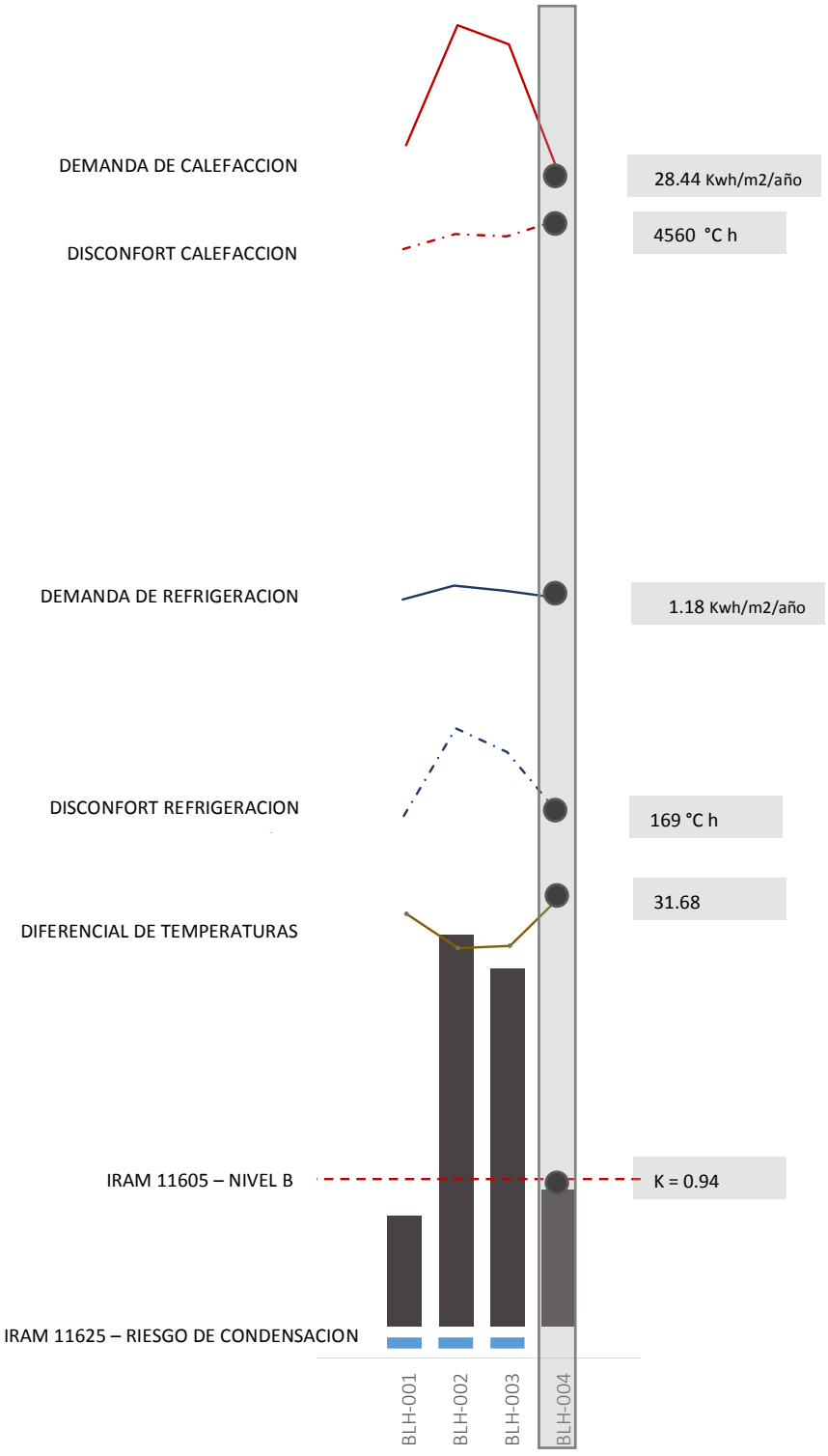



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **41,21** | kWh | 1,18 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **995,53** | kWh | 28,44 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.036,74** | kWh | **29,62** | kWh/m2/año |

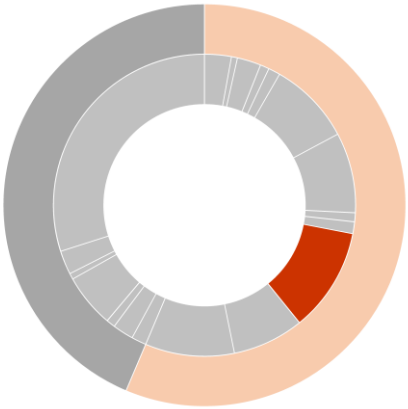
| BLH-004 | MU | BLOQUE DE HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 168 | N° 24 | N° 12 | N° 053 | N° 118 | N° 043 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,72 | 75% | 29,56 | 40,31 | 1,86 | 4477 | 384 |
| INDIVIDUAL | 0,94 | 0% | 31,68 | 28,44 | 1,18 | 4560 | 169 |
| INC. FAMILIA | 54,73% | 0,00% | 107,16% | 70,56% | 63,36% | 101,86% | 44,04% |
| INC. MUNDIAL | 79,03% | 0,00% | 102,81% | 69,15% | 19,66% | 102,21% | 33,06% |



# HORMIGON

**HOR 001**: PANEL LATERAL PARA EXTERIORES DE H°A°+ PLACA DE EPS.

**HOR 002**: PANEL LATERAL PARA INTERIORES DE H°A° + EPS.

**HOR 003:** ENVOLVENTE DE HORMIGON IN SITU CON PLACA DE YESO AL INTERIOR.

**HOR 004:** LOSA VIGUETAS Y LADRILLOS EPS h 12 cm ALIV. CUBIERTA CON PERLAS EPS TERMINACION MEMBRANA DE ALUMINIO.

**HOR 005:** PANEL DE ENTREPISO NERVURADO.

**HOR 006:** PANEL TECHO H°A° NERVURADO CON TERMINACION DE CHAPA.

**HOR 007:** PANEL DE TECHO DE HORMIGON ARMADO ACANALADO.

**HOR 008:** PANEL CENEFA LATERAL DE HORMIGON ARMADO.

**HOR 009:** CUBIERTA HORIZONTAL LOSA MACIZA DE H°A°.

**HOR 010:** CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 15 CM DE ESPESOR CON TERMINACION DE MEMBRANA.

**HOR 011:** CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 20 CM DE ESPESOR R CON TERMINACION DE MEMBRANA.

**HOR 012:** CUBIERTA TRADICIONAL SOBRE LOSA MACIZA DE 10 CM DE ESPESOR + CAMARA DE AIRE DE 4 CM Y TERMINACION DE CHAPA SINUSOIDAL.

**HOR 013**: CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 10 CM DE ESPESOR CON TERMINACION DE MEMBRANA.

**HOR 014**: CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 15 CM DE ESPESOR + CAMARA DE AIRE DE 4 CM Y TERMINACION DE CHAPA SINUSOIDAL.

**HOR 015:** CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 20 CM DE ESPESOR + CAMARA DE AIRE DE 4 CM Y TERMINACION DE CHAPA SINUSOIDAL.

**HOR 016:** CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 10 CM DE ESPESOR CON AISLACION DE PLANCHA DE EPS (15) 5 CM Y TERMINACION DE MEMBRANA.

**HOR 017:** CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 15 CM DE ESPESOR CON AISLACION DE PLANCHA DE EPS (15) 5 CM Y TERMINACION DE MEMBRANA.

**HOR 018:** CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 20 CM DE ESPESOR CON AISLACION DE PLANCHA DE EPS (15) 5 CM Y TERMINACION DE MEMBRANA.

**HOR 019:** CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 10 CM DE ESPESOR CON AISLACION DE PLANCHA DE PUR 5 CM Y TERMINACION DE MEMBRANA.

**HOR 020:** CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 15 CM DE ESPESOR CON AISLACION DE PLANCHA DE PUR DE 5 CM Y TERMINACION MEMBRANA.

**HOR 021:** CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 20 CM DE ESPESOR CON AISLACION DE PLANCHA DE PUR 5 CM Y TERMINACION DE MEMBRANA.

**HOR 022:** CUBIERTA TRADICIONAL SOBRE LOSA NERVURADA TIPO AU PREMOLDEADA DE HORMIGON ESPESOR 5 CM (TIPO ASTORI).

**HOR 023:** CUBIERTA TRADICIONAL SOBRE LOSA NERVURADA TIPO AU PREMOLDEADA DE HORMIGON CON AISLACION DE PLANCHA DE PUR (TIPO ASTORI).

**HOR 024:** CUBIERTA TRADICIONAL SOBRE LOSA NERVURADA TIPO AU PREMOLDEADA DE HORMIGON CON AISLACION DE PLANCHA DE EPS (TIPO ASTORI).

**HOR 025:** TABIQUE DE HORMIGON COLADO IN SITU ESPESOR 15 CM-TERMINACION A LA VISTA EN CARA EXTERIOR-AISLACION LANA DE VIDRIO 50MM+ TERMINACION PLACA DE DURLOCK.

**HOR 026:** TABIQUE DE HORMIGON COLADO IN SITU ESPESOR 15 CM-TERMINACION A LA VISTA EN CARA EXTERIOR- AISLACION DE PLANCHA EPS (15) + TERMINACION PLACA DE DURLOCK.

**HOR 027:** TABIQUE DE HORMIGON COLADO IN SITU ESPESOR 15 CM-TERMINACION A LA VISTA EN CARA EXTERIOR-CAMARA DE AIRE 35 MM+ TERMINACION PLACA DE DURLOCK.

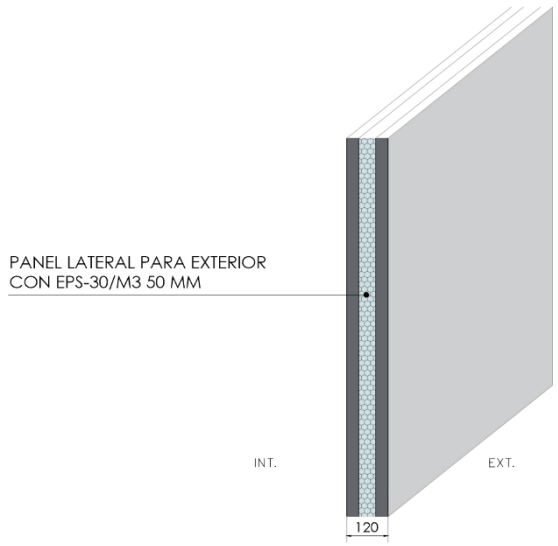
**HOR 029**: TABIQUE DE HORMIGON COLADO IN SITU ESPESOR 15 CM-TERMINACION A LA VISTA EN CARA EXTERIOR-CAMARA DE AIRE 35 MM+ TERMINACION PLACA DE OSB.

| HOR-001 | MU | HORMIGON |
|---|---|---|

PANEL LATERAL PARA EXTERIORES DE H°A°+ PLACA DE EPS.

## INDICE DE TRANSMITANCIA TERMICA "K"

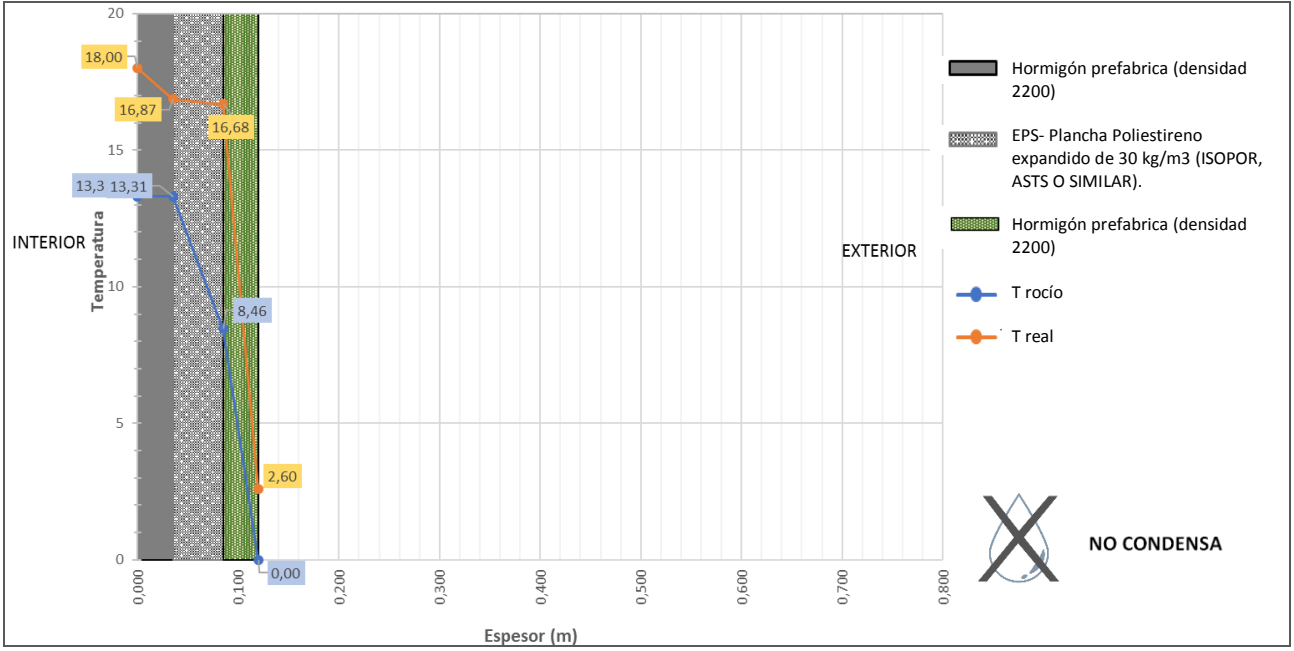
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,56 | 0,56 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



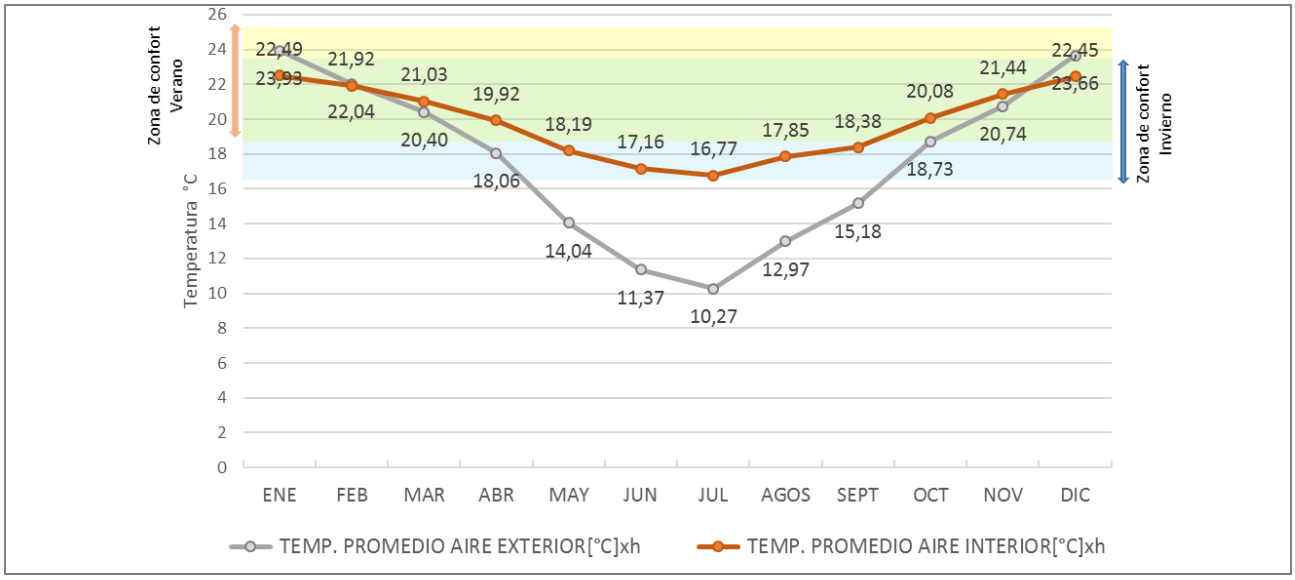

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 14,6 | Invierno 14,6 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,5** | **8,5** |
| | **Amortiguamiento:** | 0,043 | 0,043 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,7** | **8,3** |
| | **Amortiguamiento:** | 0,102 | 0,114 |

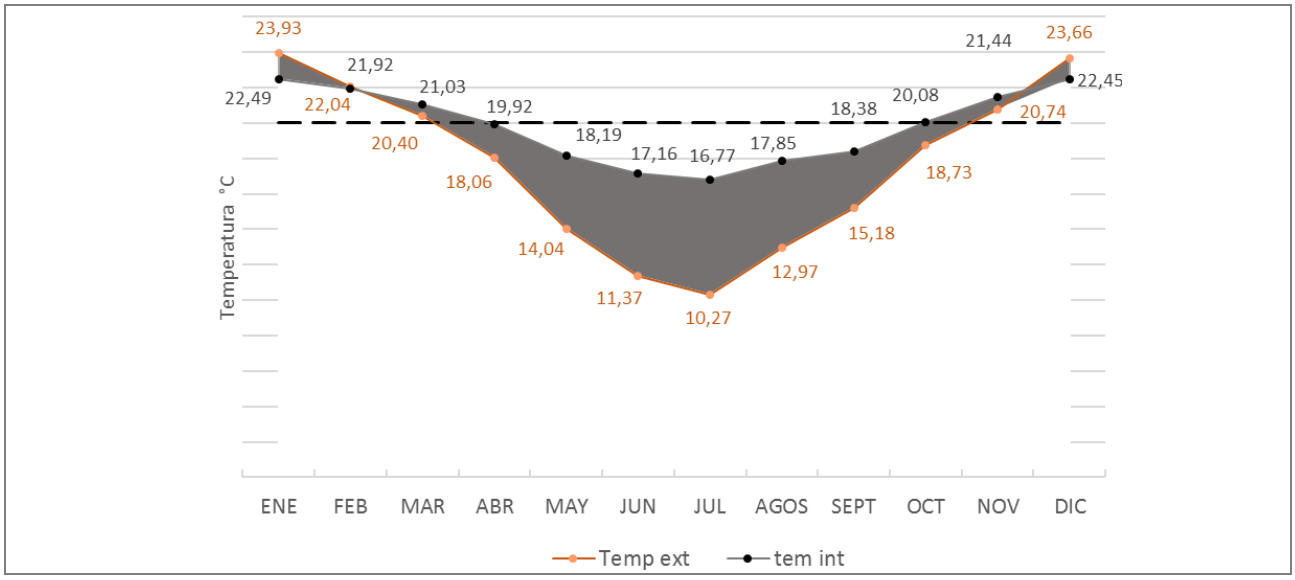
| HOR-001 | MU | HORMIGON |
|---|---|---|

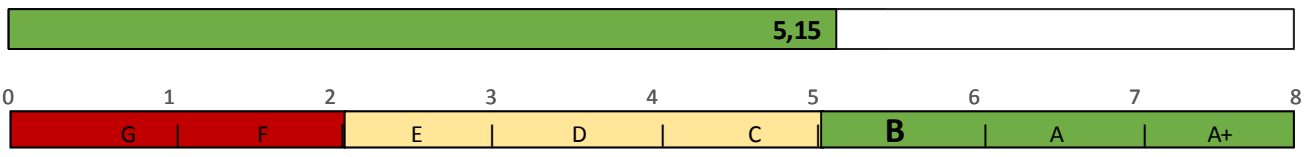
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,02** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **14,16** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



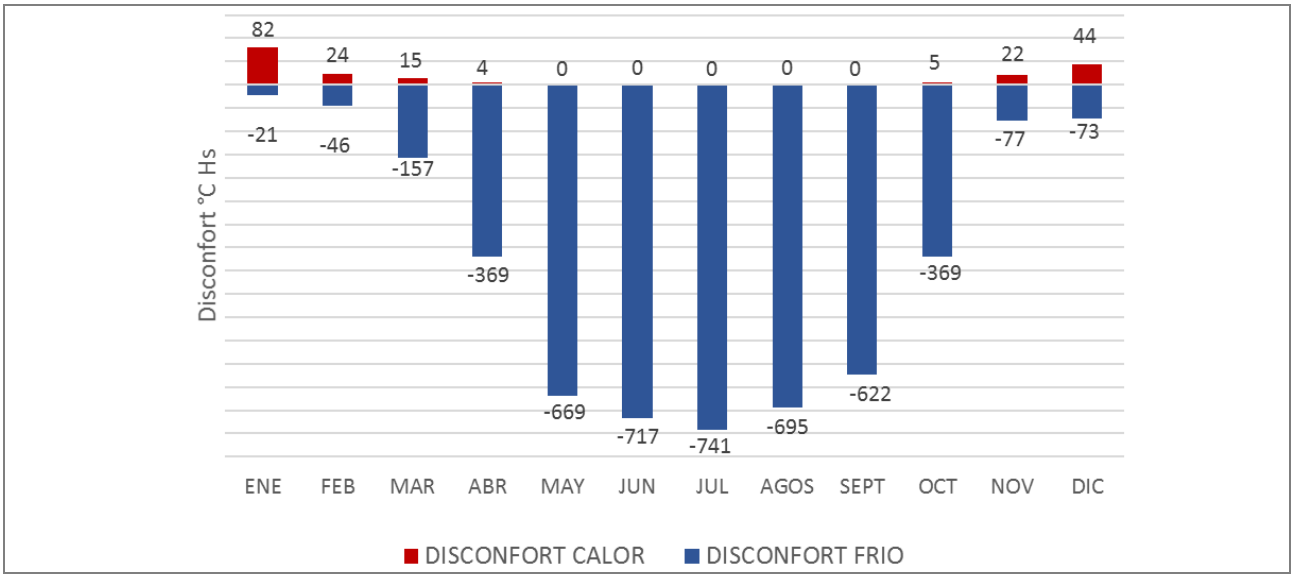




5,15 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| HOR-001 | MU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

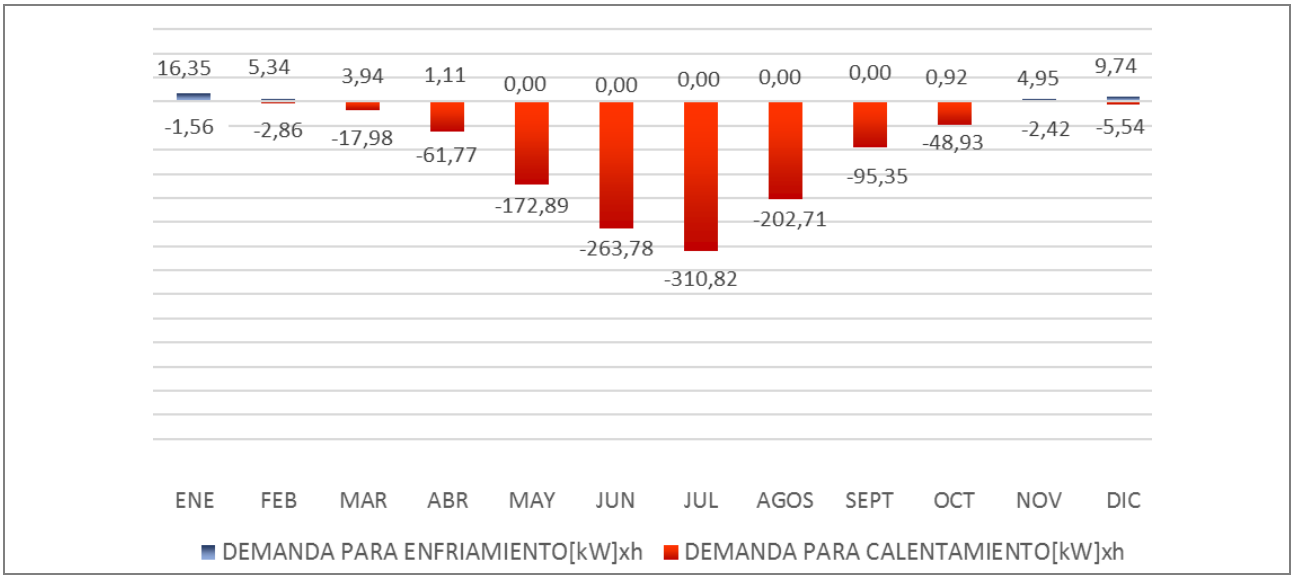
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **196** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.557** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.753** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

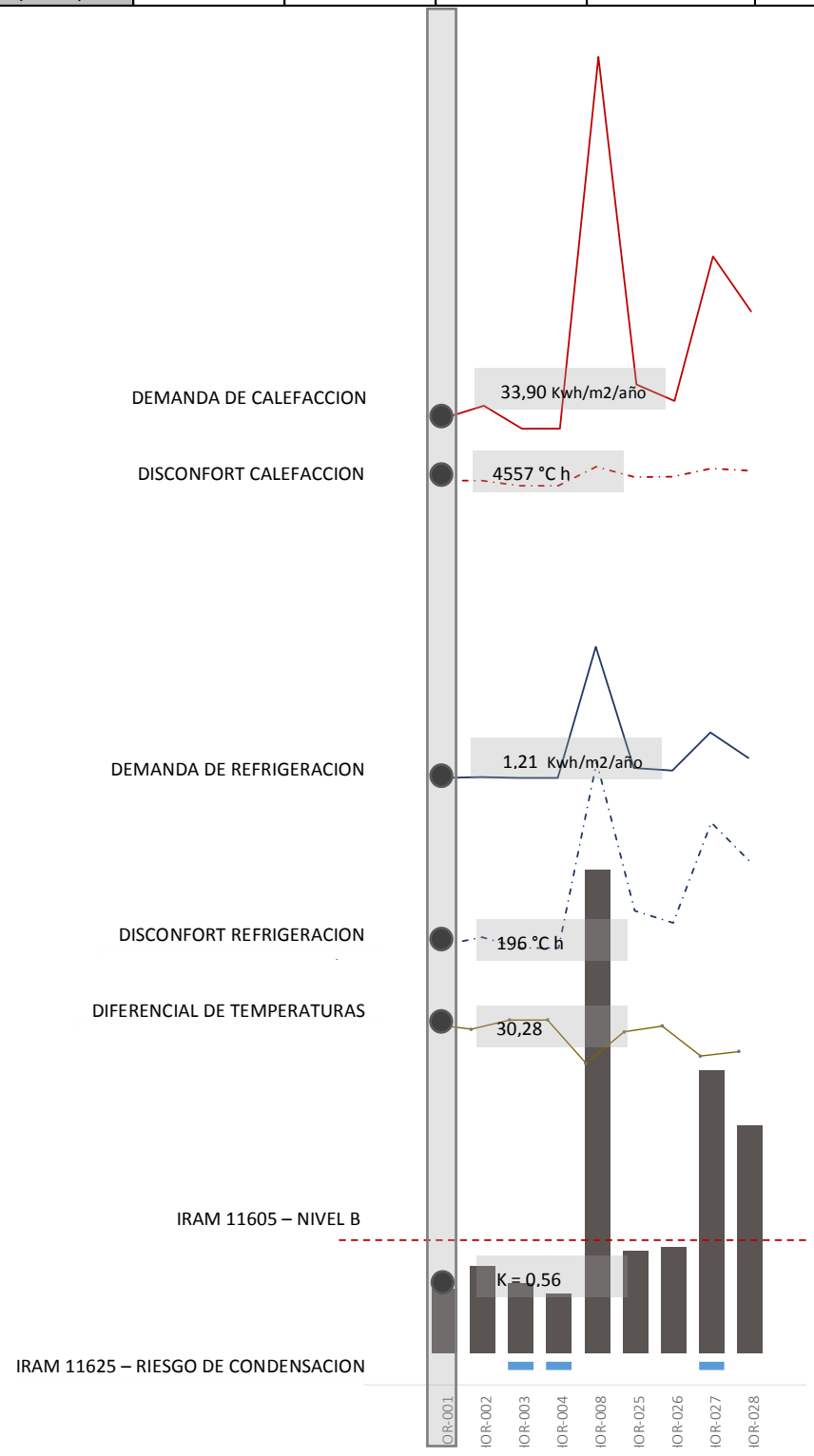



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,34** | kWh | 1,21 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.186,61** | kWh | 33,90 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.228,95** | kWh | **35,11** | kWh/m2/año |

| HOR-001 | MU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 136 | N° 160 | N° 144 | N° 063 | N° 110 | N° 086 |



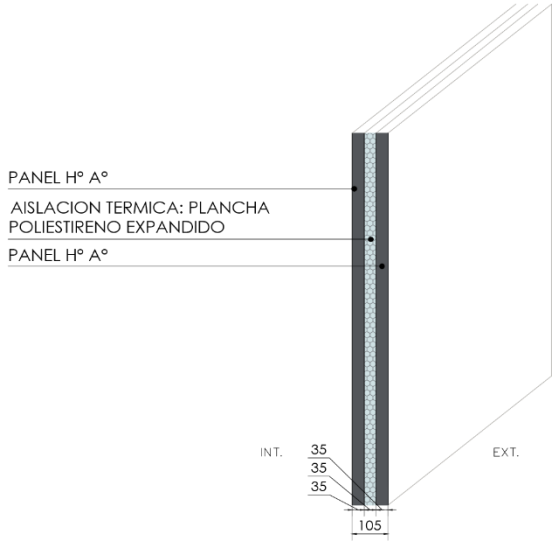

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,45 | 33% | 29,28 | 47,97 | 5,74 | 4583 | 570 |
| INDIVIDUAL | 0,56 | | 30,28 | 33,9 | 1,21 | 4557 | 196 |
| INC. FAMILIA | 38,63% | 0,00% | 103,42% | 70,67% | 21,09% | 99,44% | 34,41% |
| INC. MUNDIAL | 47,08% | 0,00% | 98,27% | 82,43% | 20,16% | 102,14% | 38,34% |

| HOR-002 | MU | HORMIGON |
|---|---|---|

PANEL LATERAL PARA INTERIORES DE H°A° + EPS.

## INDICE DE TRANSMITANCIA TERMICA "K"

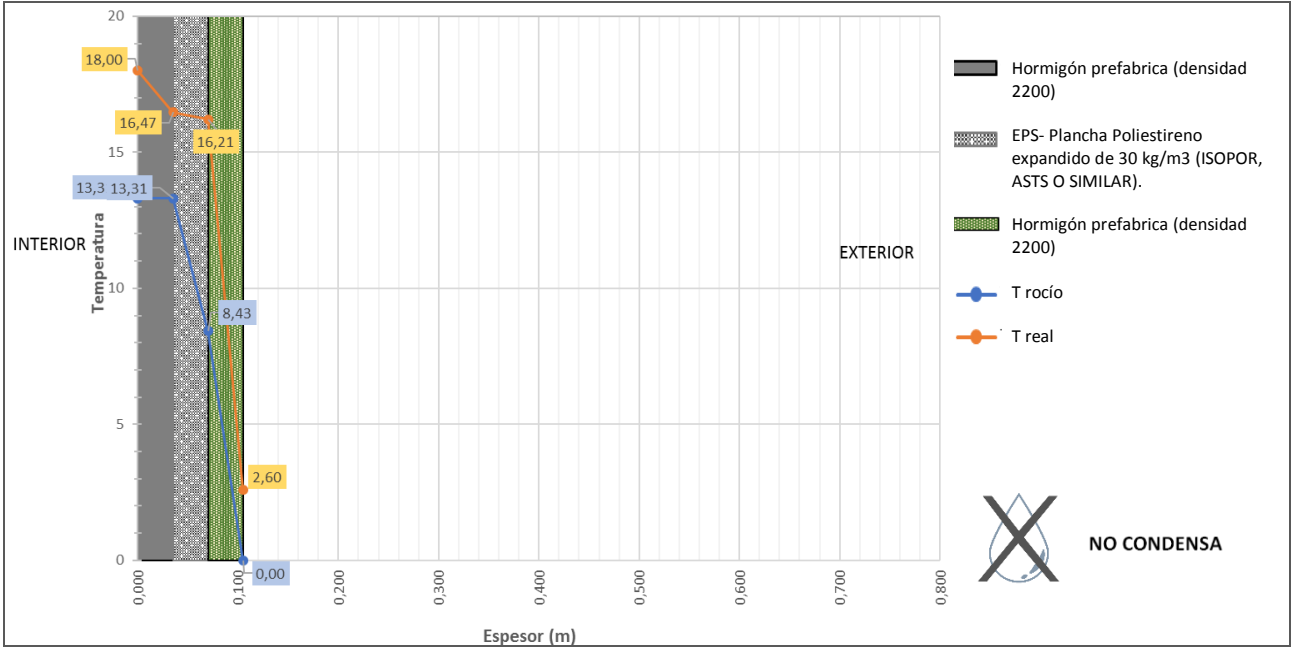
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,76 | 0,76 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



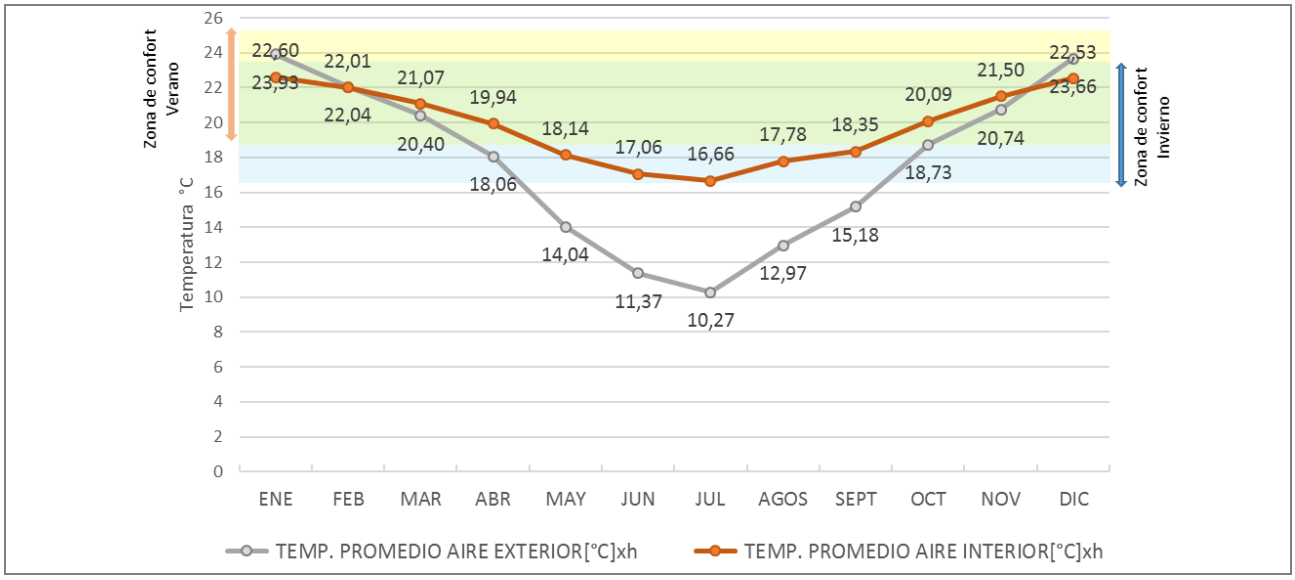

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 20,7 | Invierno 20,7 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,2** | **7,2** |
| | **Amortiguamiento:** | 0,071 | 0,071 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,6** | **7,1** |
| | **Amortiguamiento:** | 0,138 | 0,158 |

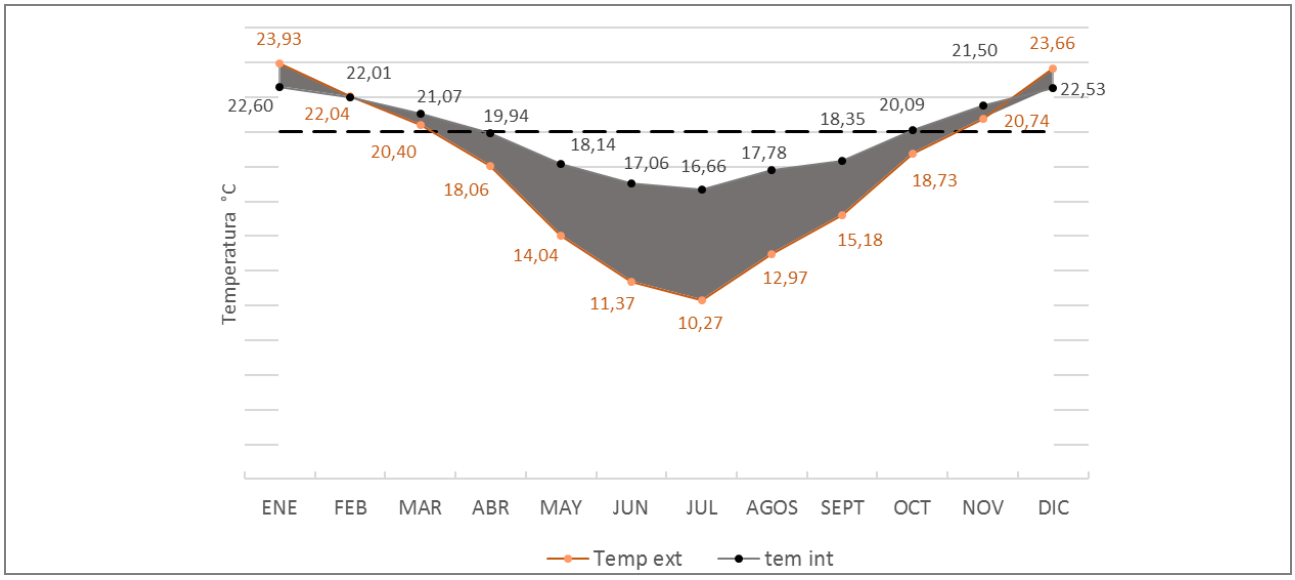
| HOR-002 | MU | HORMIGON |
|---|---|---|

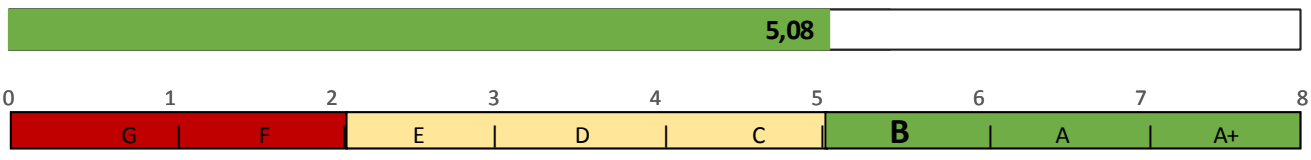
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,25** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,85** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



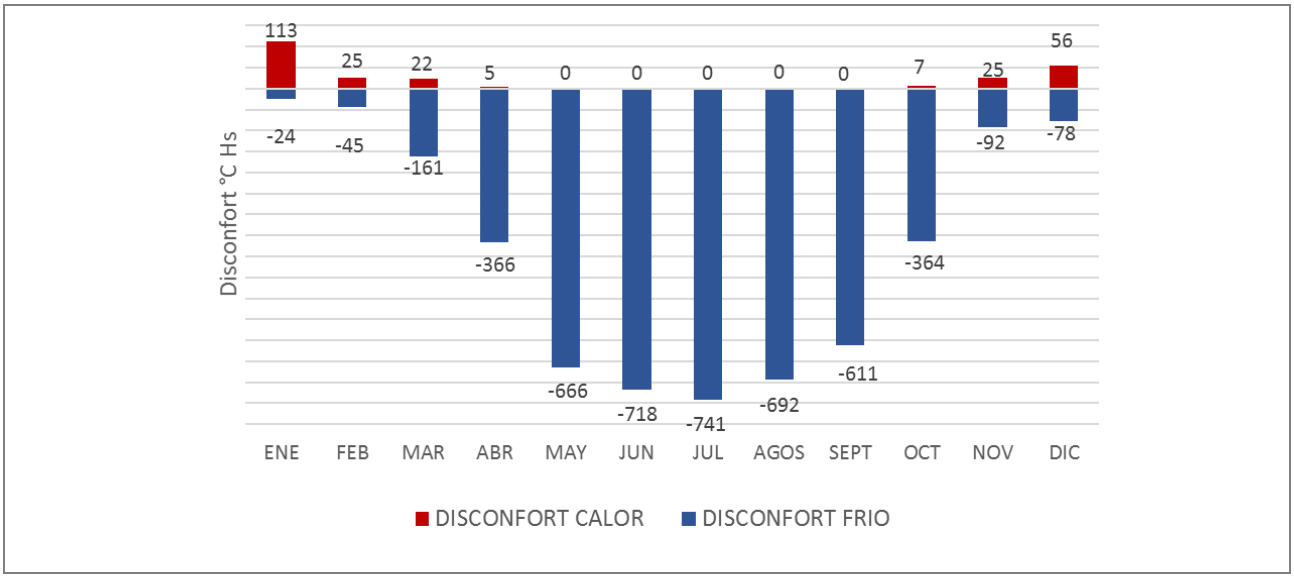




5,08 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| HOR-002 | MU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

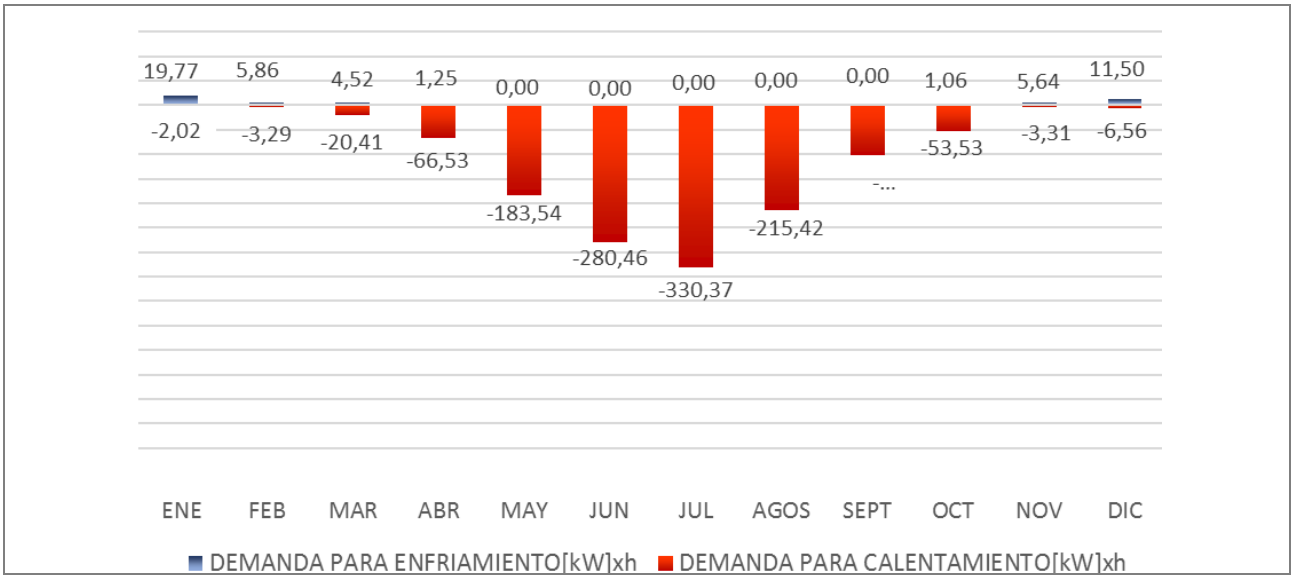
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **253** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.557** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.810** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

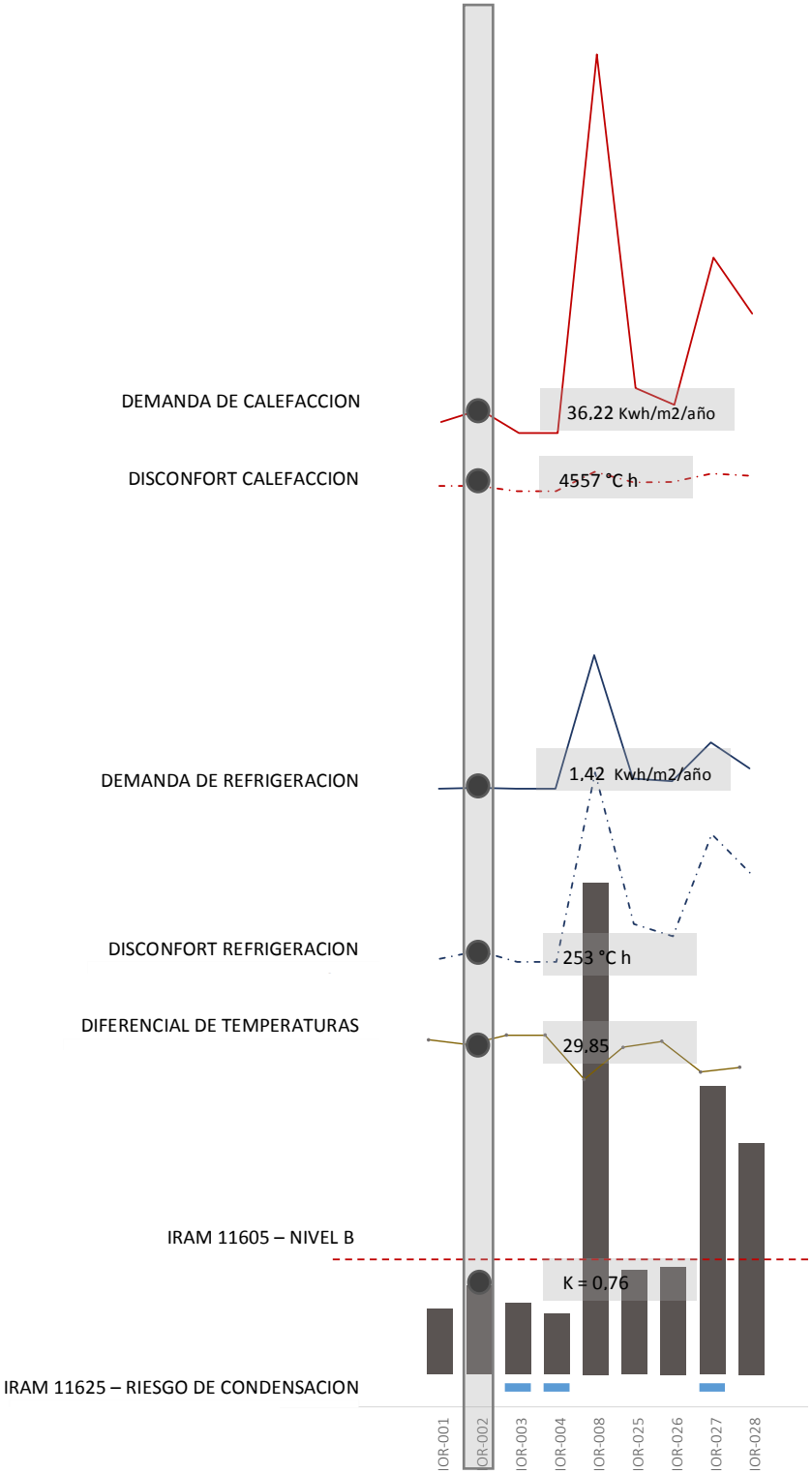



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **49,59** | kWh | 1,42 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.267,68** | kWh | 36,22 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.317,27** | kWh | **37,64** | kWh/m2/año |

| HOR-002 | MU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 165 | N° 168 | N° 159 | N° 092 | N° 112 | N° 131 |



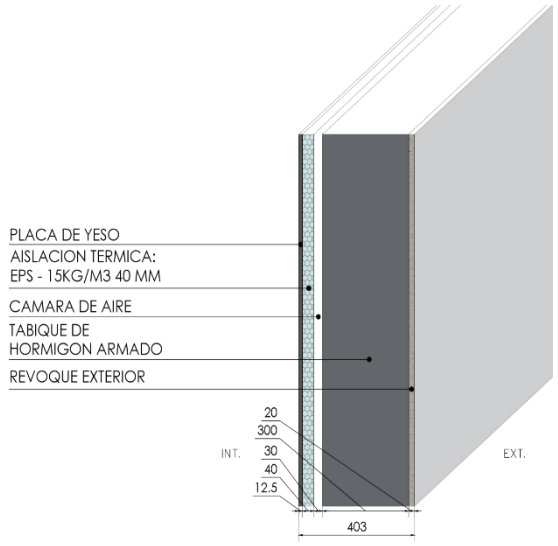

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,45 | 33% | 29,28 | 47,97 | 5,74 | 4583 | 570 |
| INDIVIDUAL | 0,76 | 0% | 29,85 | 36,22 | 1,42 | 4557 | 253 |
| INC. FAMILIA | 52,43% | 0,00% | 101,95% | 75,51% | 24,75% | 99,44% | 44,41% |
| INC. MUNDIAL | 63,90% | 0,00% | 96,87% | 88,07% | 23,66% | 102,14% | 49,50% |

| HOR-003 | MU | HORMIGON |
|---|---|---|

ENVOLVENTE DE HORMIGON IN SITU CON PLACA DE YESO AL INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

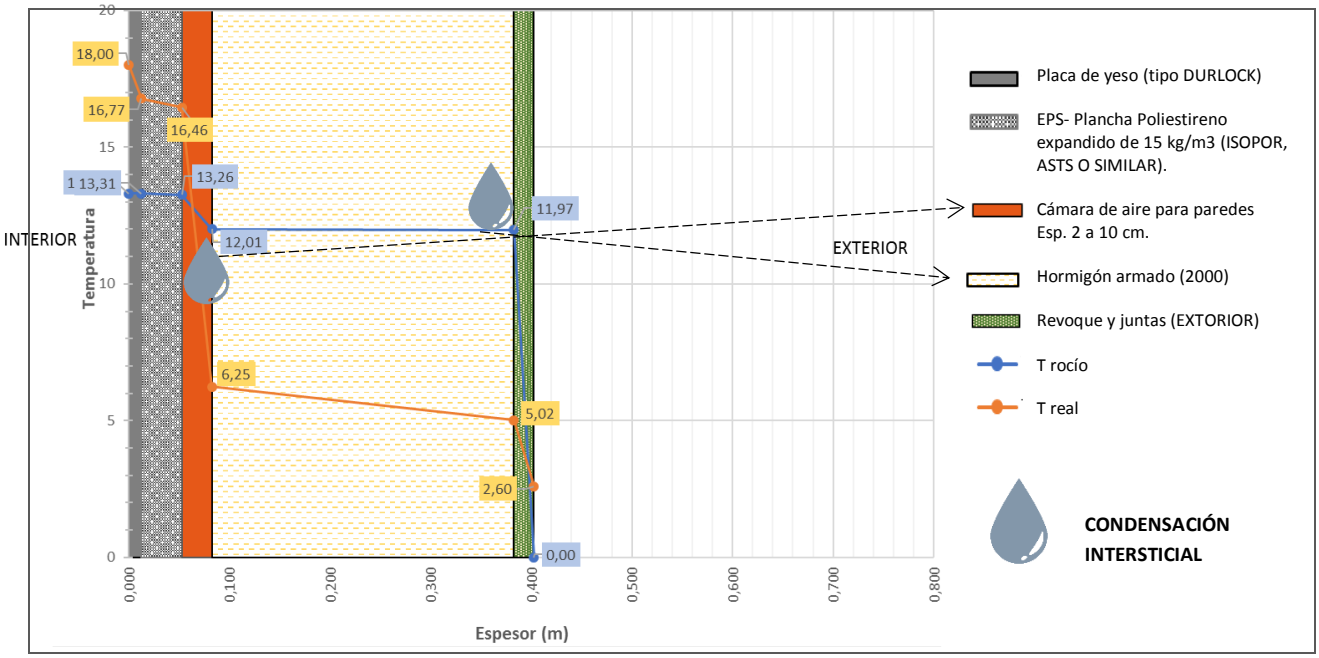
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,61 | 0,61 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



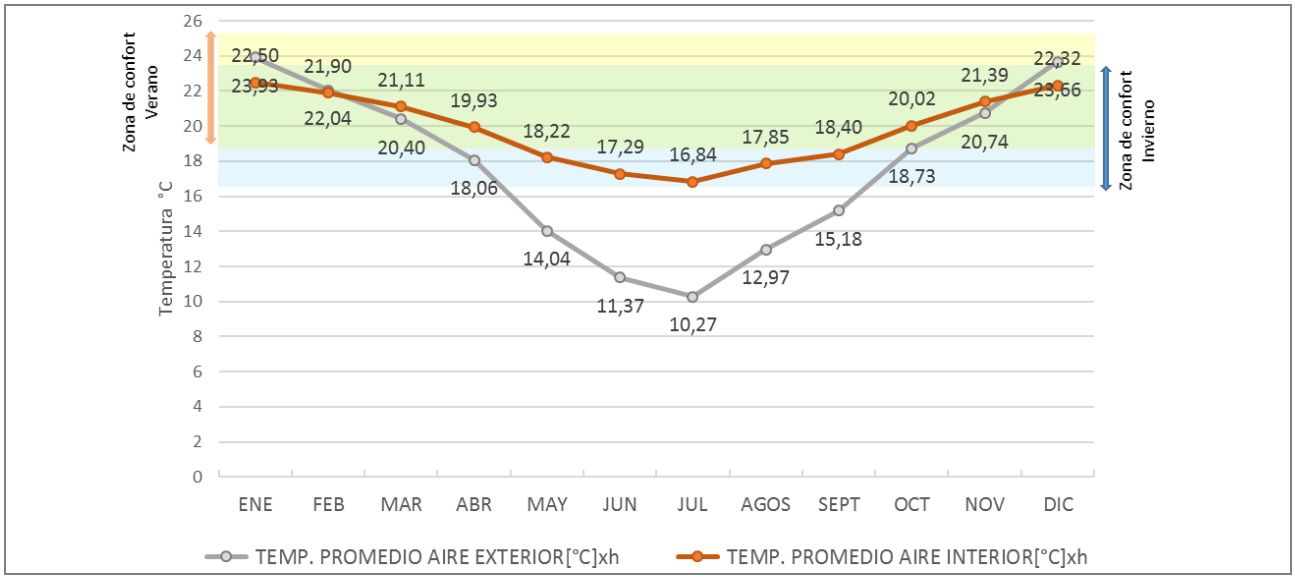

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 103,2 | 100,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **20,5** | **20,2** |
| | **Amortiguamiento:** | 0,001 | 0,001 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **19,7** | **6,9** |
| | **Amortiguamiento:** | 0,006 | 0,165 |

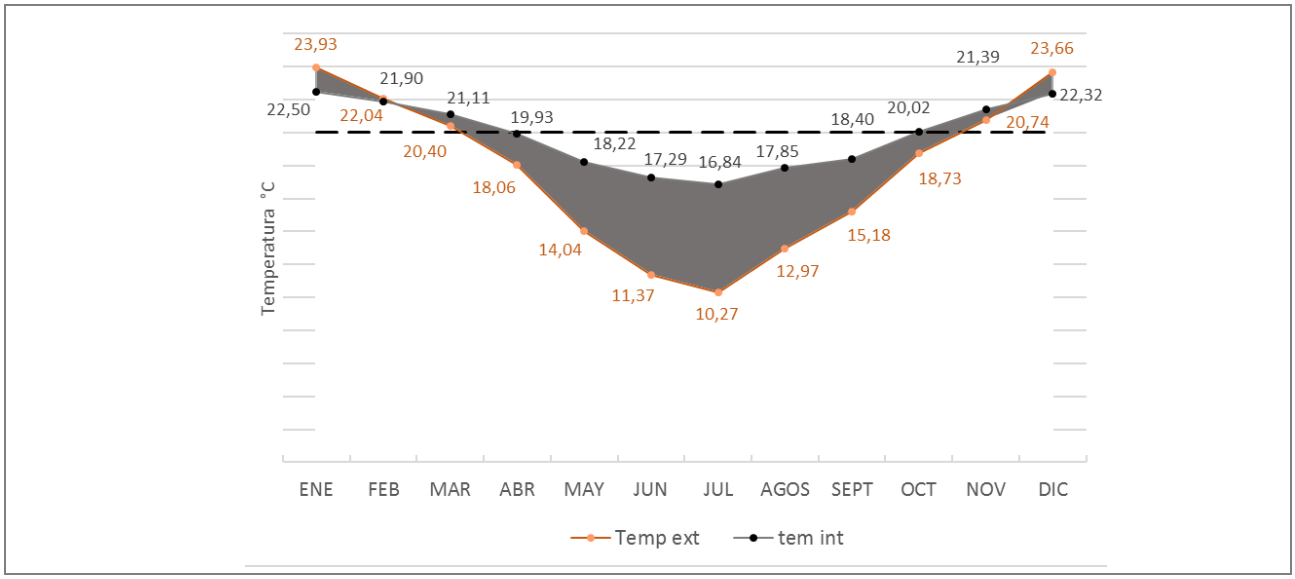
| HOR-003 | MU | HORMIGON |
|---|---|---|

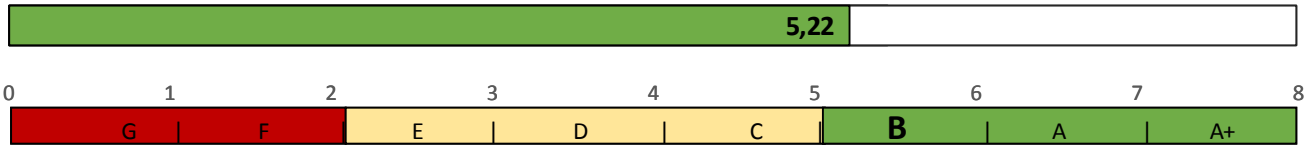
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,91** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,62** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



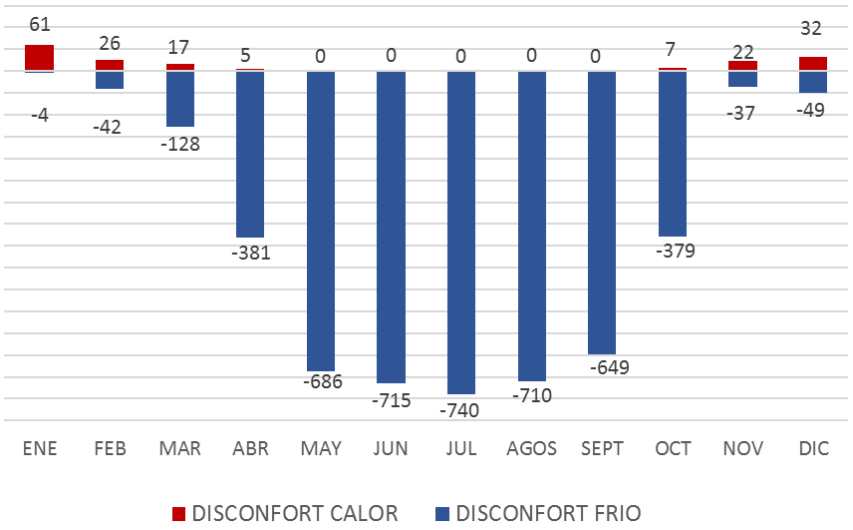




5.22 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.65

| HOR-003 | MU | HORMIGON |
|---|---|---|

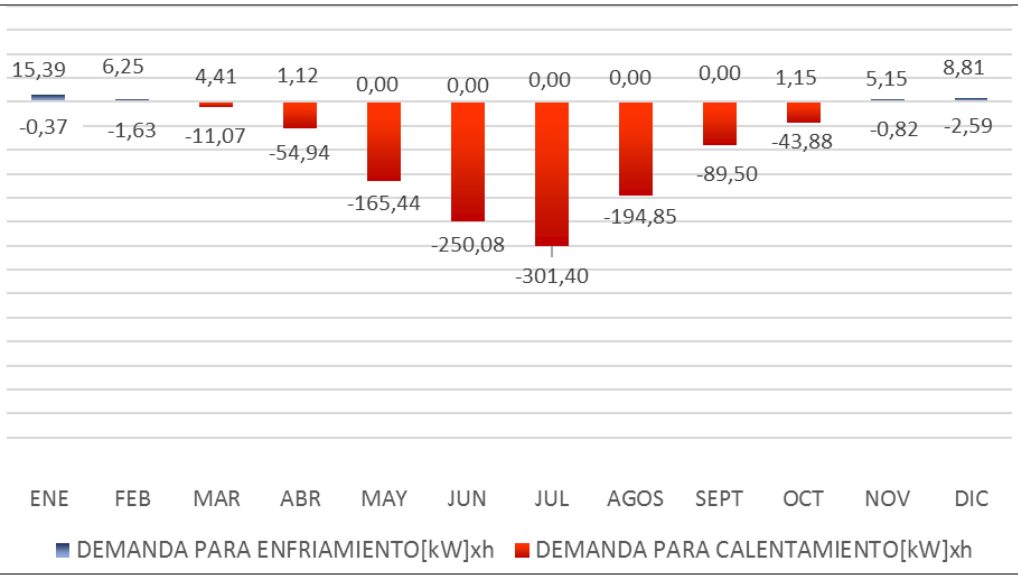
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **171** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.520** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.691** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

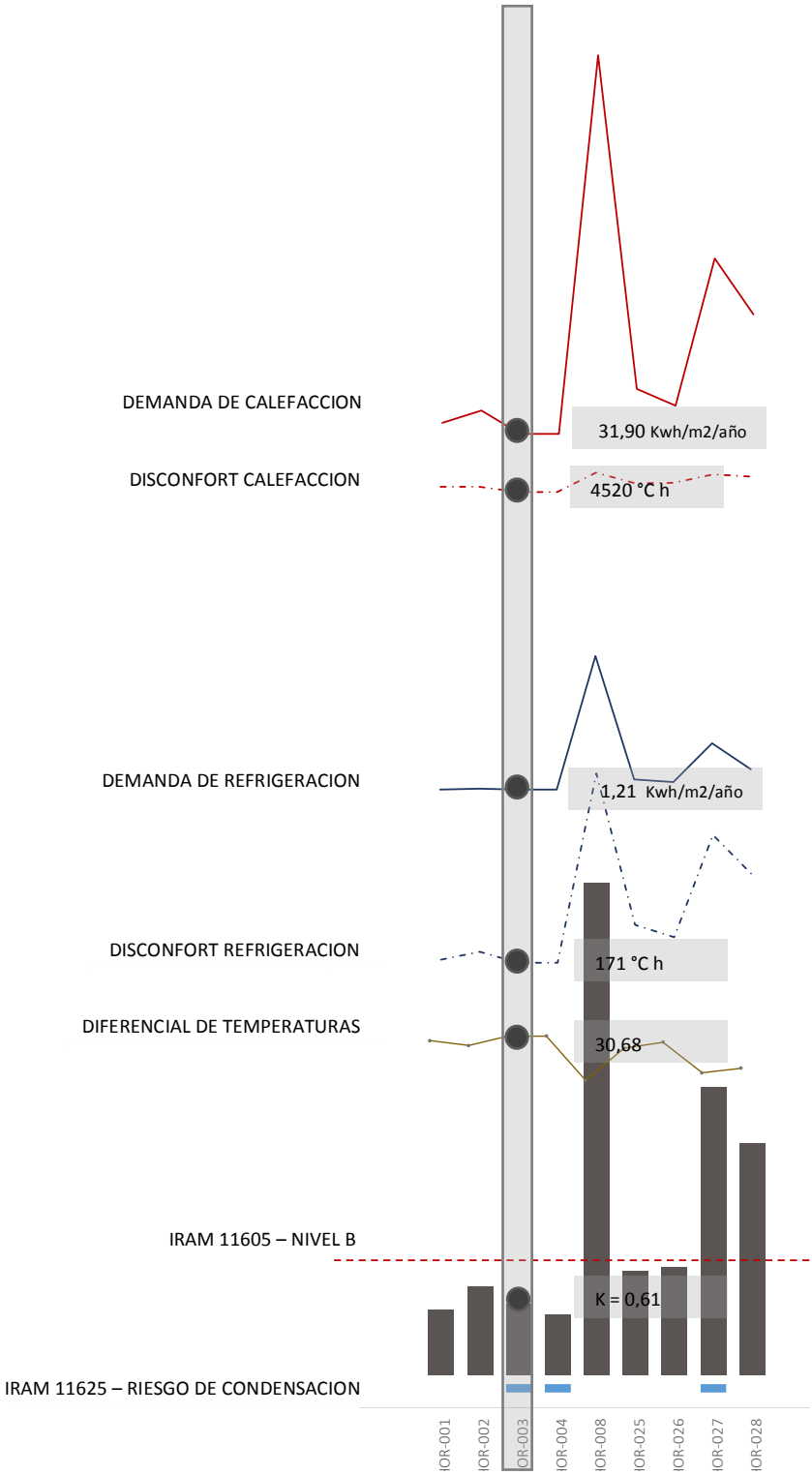



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,27** | kWh | 1,21 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.116,55** | kWh | 31,90 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.158,83** | kWh | **33,11** | kWh/m2/año |

| HOR-003 | MU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 142 | N° 143 | N° 112 | N° 061 | N° 079 | N° 048 |



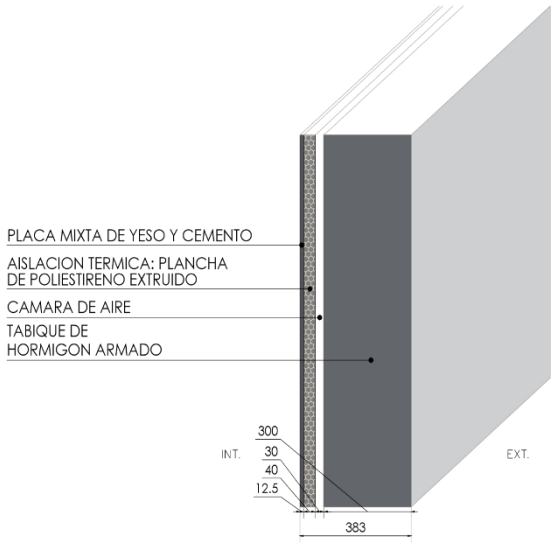

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,45 | 33% | 29,28 | 47,97 | 5,74 | 4583 | 570 |
| INDIVIDUAL | 0,61 | 100% | 30,68 | 31,9 | 1,21 | 4520 | 171 |
| INC. FAMILIA | 42,08% | 303,03% | 104,78% | 66,50% | 21,09% | 98,63% | 30,02% |
| INC. MUNDIAL | 51,29% | 357,05% | 99,57% | 77,57% | 20,16% | 101,31% | 33,45% |

| HOR-004 | MU | HORMIGON |
|---|---|---|

ENVOLVENTE DE HORMIGON IN SITU PIGMENTADO CON ENCOFRADOS DE TABLAS DE MADERA Y PLACA DE YESO AL INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

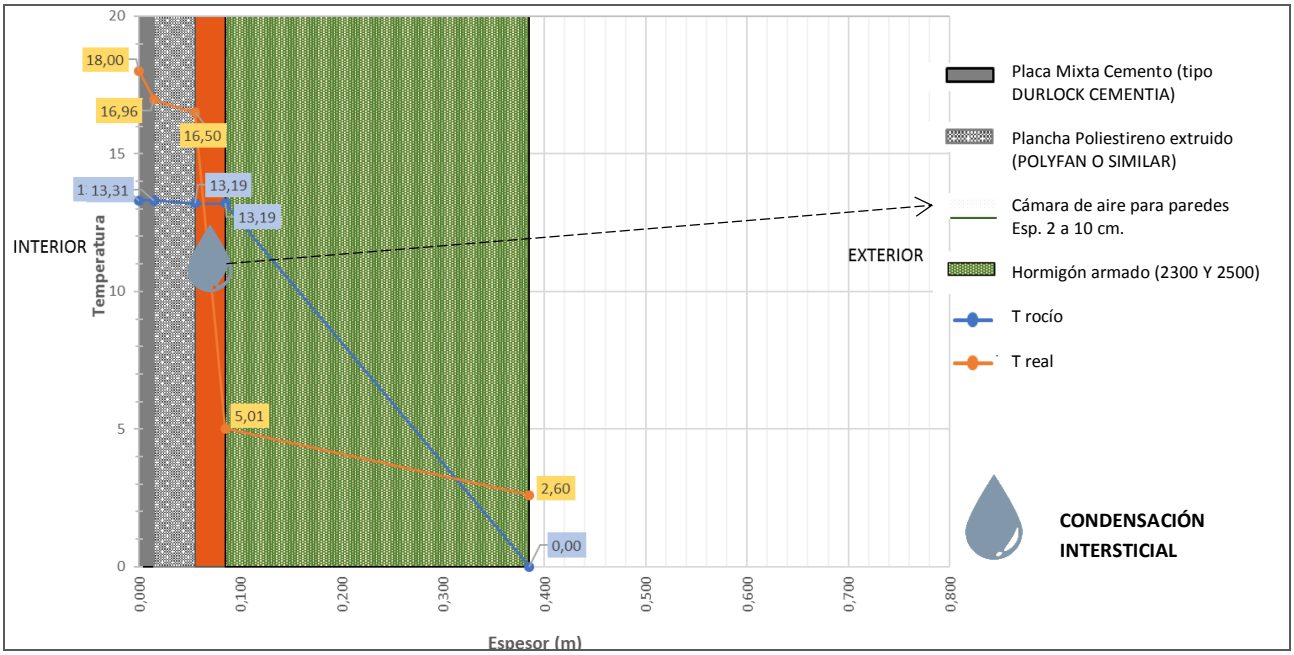
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,52 | 0,52 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

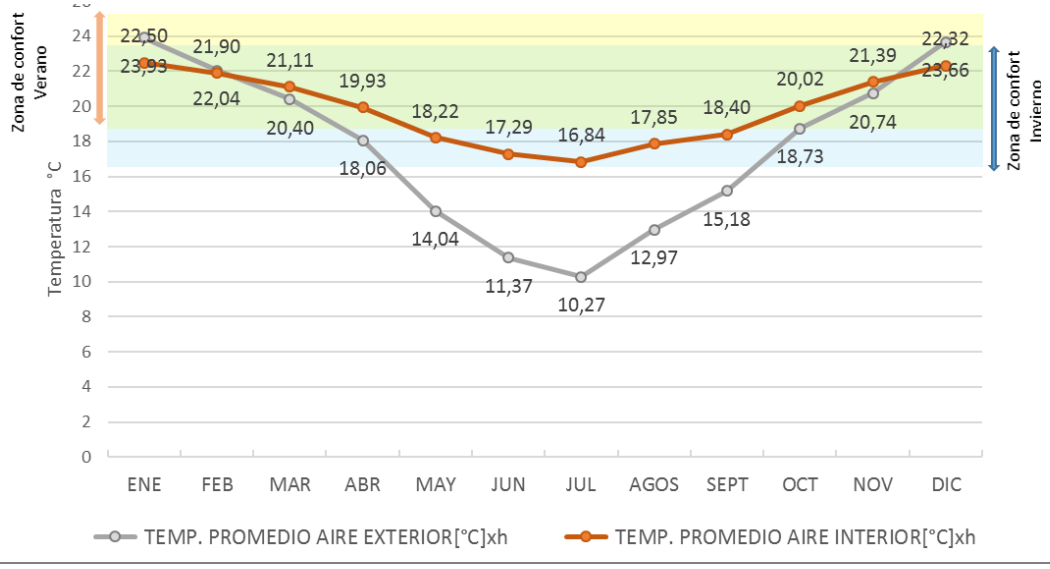
REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 98,3 | 2,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **23,9** | **4,0** |
| | **Amortiguamiento:** | 0,000 | 0,225 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **23,3** | **6,8** |
| | **Amortiguamiento:** | 0,002 | 0,169 |

| HOR-004 | MU | HORMIGON |
|---|---|---|

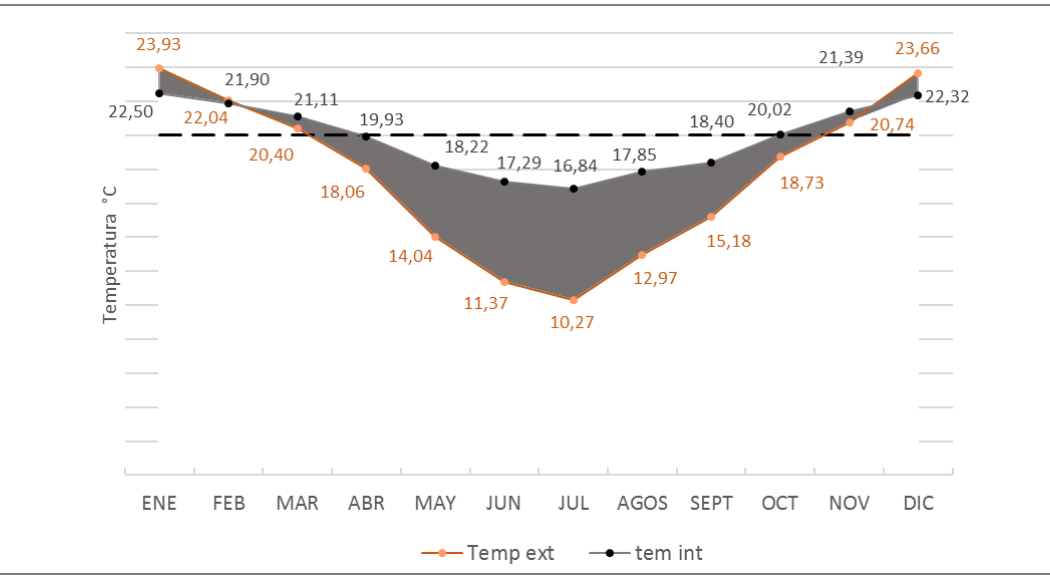
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS

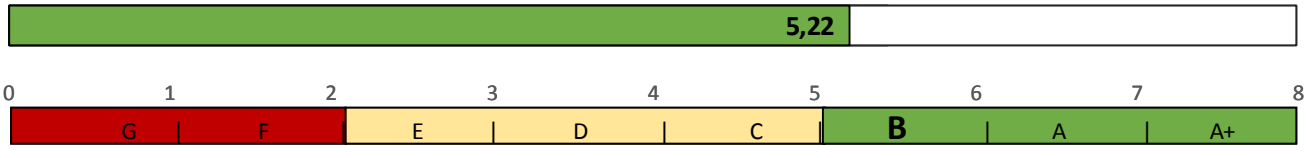
1




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,91** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,62** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



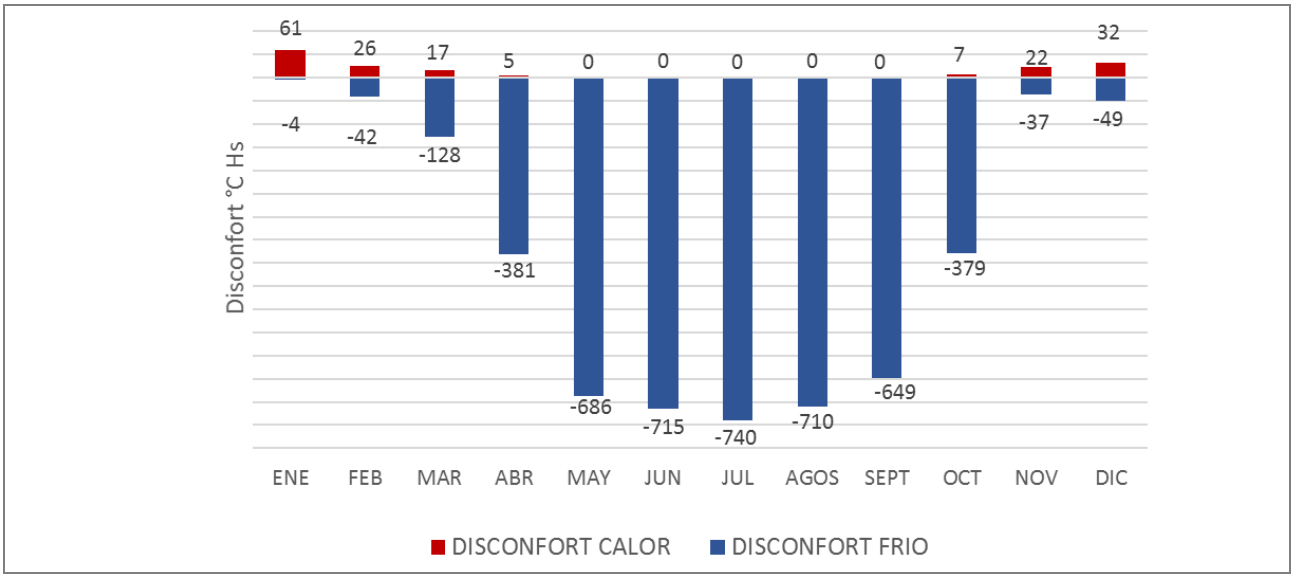




5,22 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| HOR-004 | MU | HORMIGON |
|---|---|---|

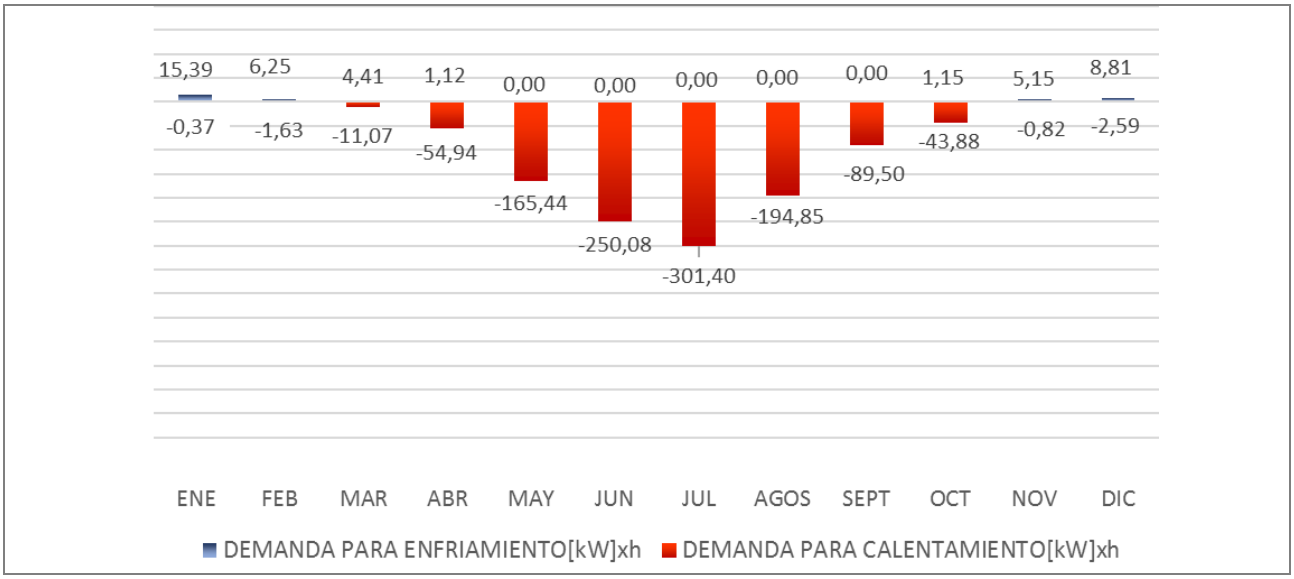
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **171** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.520** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.691** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

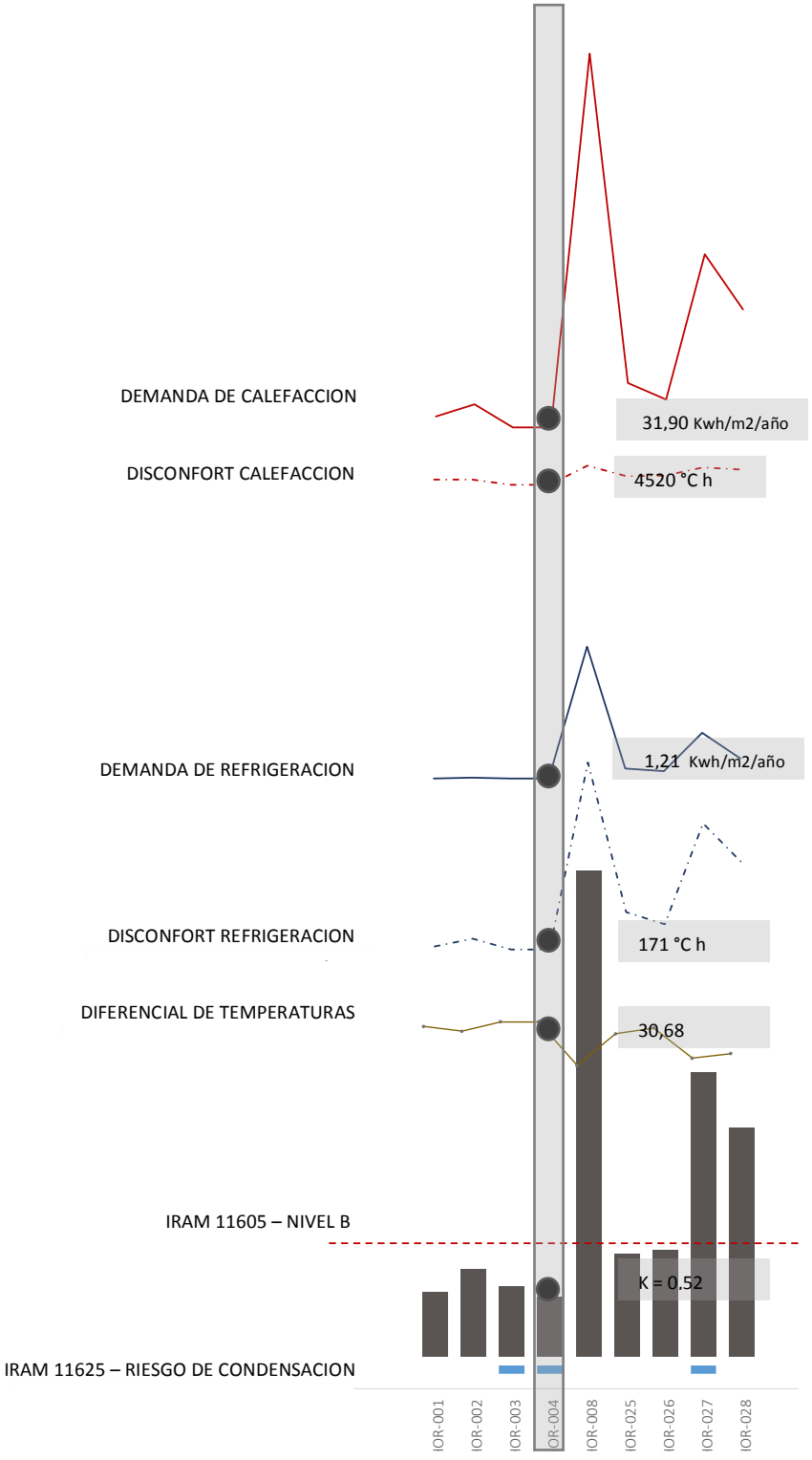



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,27** | kWh | 1,21 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.116,55** | kWh | 31,90 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.158,83** | kWh | **33,11** | kWh/m2/año |

| HOR-004 | MU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 128 | N° 142 | N° 111 | N° 060 | N° 078 | N° 047 |



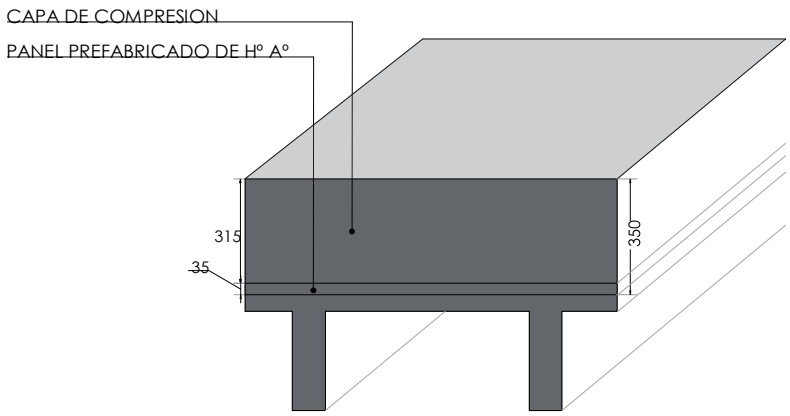

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,45 | 33% | 29,28 | 47,97 | 5,74 | 4583 | 570 |
| INDIVIDUAL | 0,52 | 100% | 30,68 | 31,9 | 1,21 | 4520 | 171 |
| INC. FAMILIA | 35,87% | 303,03% | 104,78% | 66,50% | 21,09% | 98,63% | 30,02% |
| INC. MUNDIAL | 43,72% | 357,05% | 99,57% | 77,57% | 20,16% | 101,31% | 33,45% |

| HOR-005 | EP | HORMIGON |
|---|---|---|

PANEL DE ENTREPISO NERVURADO.

## INDICE DE TRANSMITANCIA TERMICA "K"

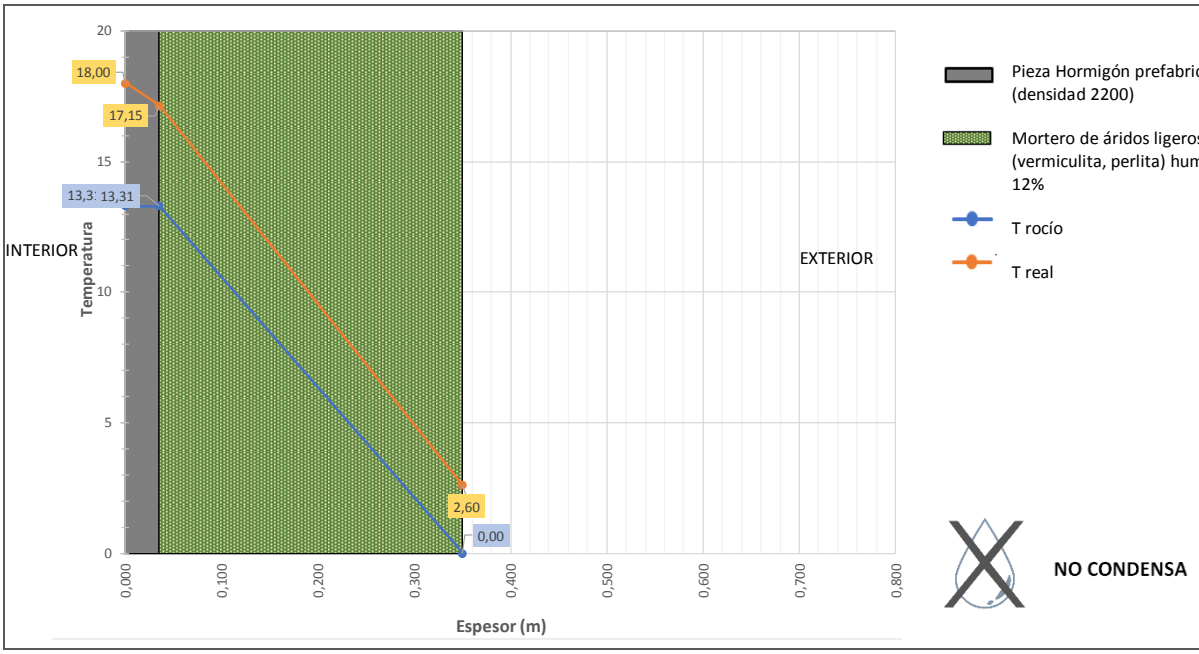
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,53 | 0,55 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



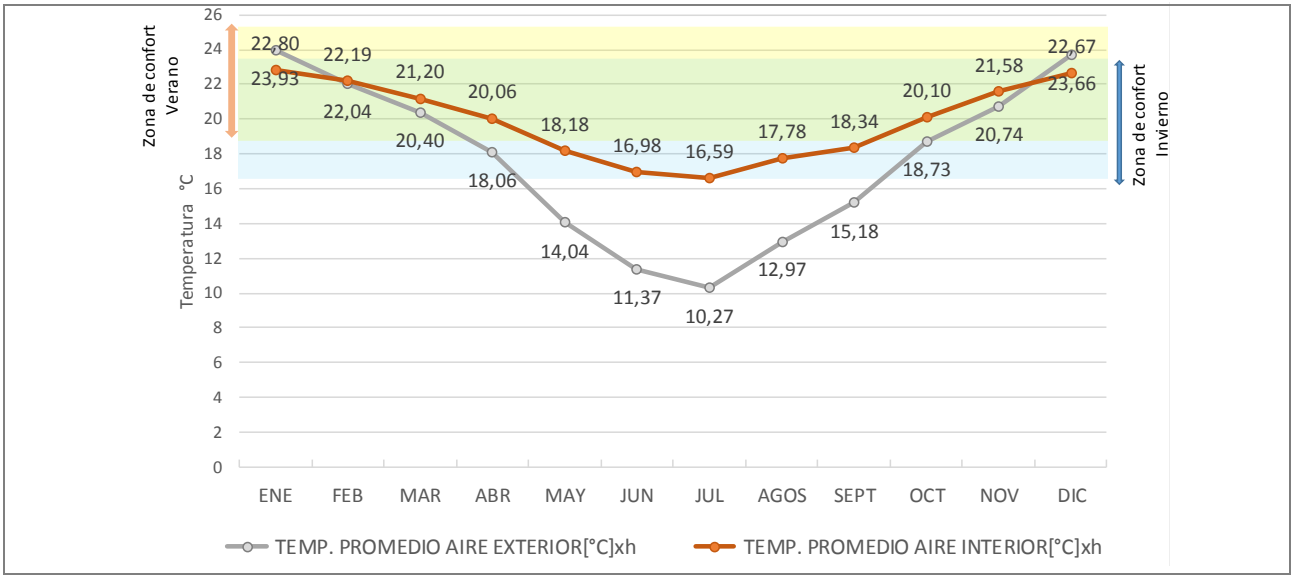

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 34,4 | 14,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **13,6** | **8,7** |
| | **Amortiguamiento:** | 0,006 | 0,040 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,5** | **12,5** |
| | **Amortiguamiento:** | 0,064 | 0,038 |

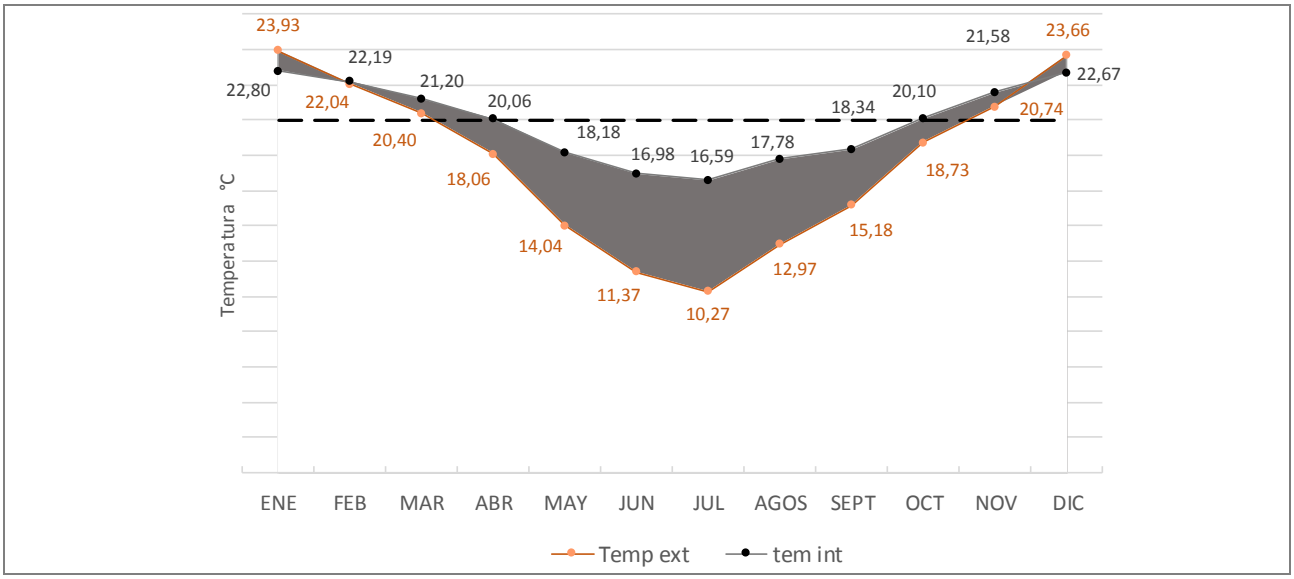
| HOR-005 | EP | HORMIGON |
|---|---|---|

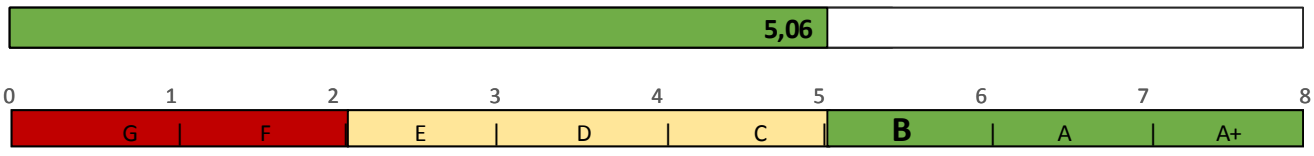
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,44** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,54** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



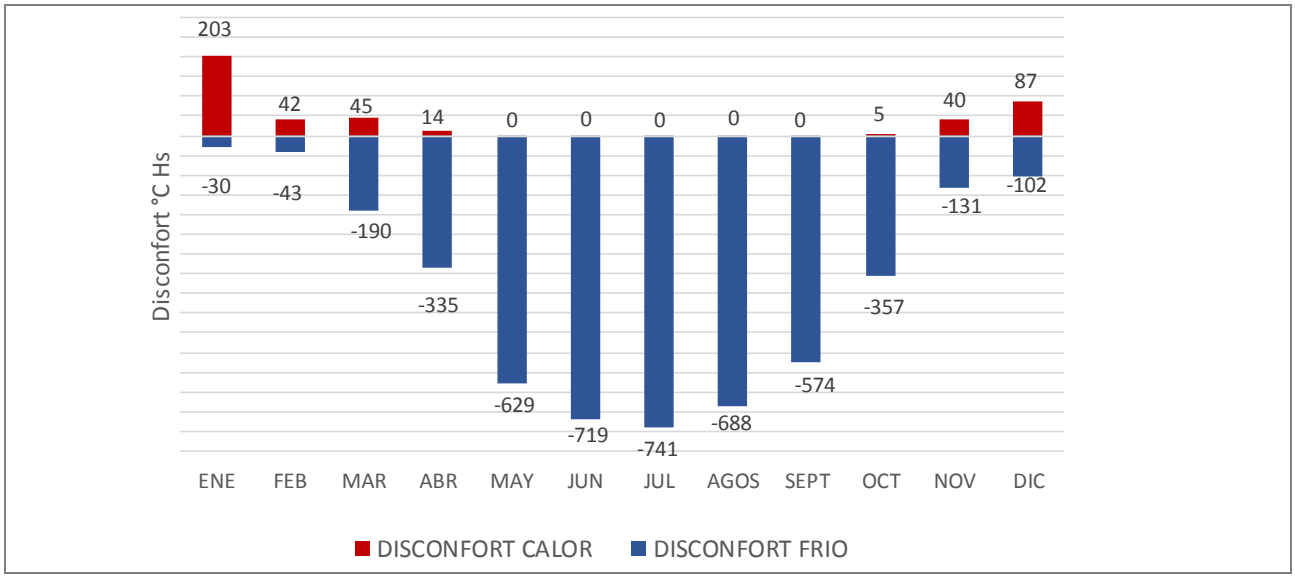




5,06 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| HOR-005 | EP | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

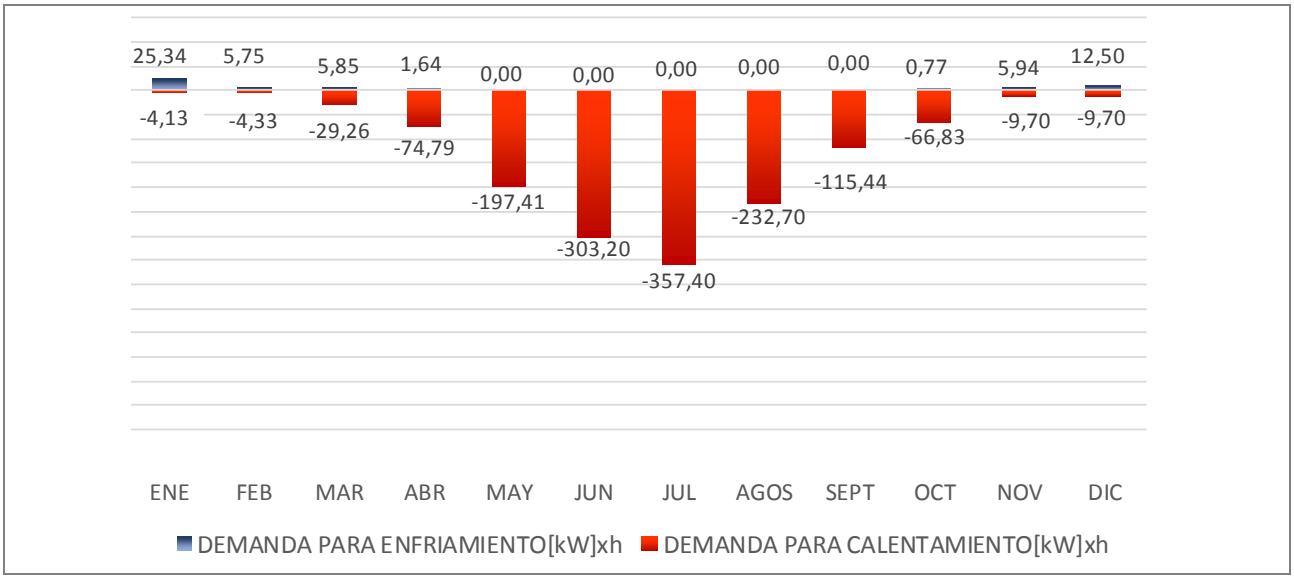
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **436** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.539** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.975** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

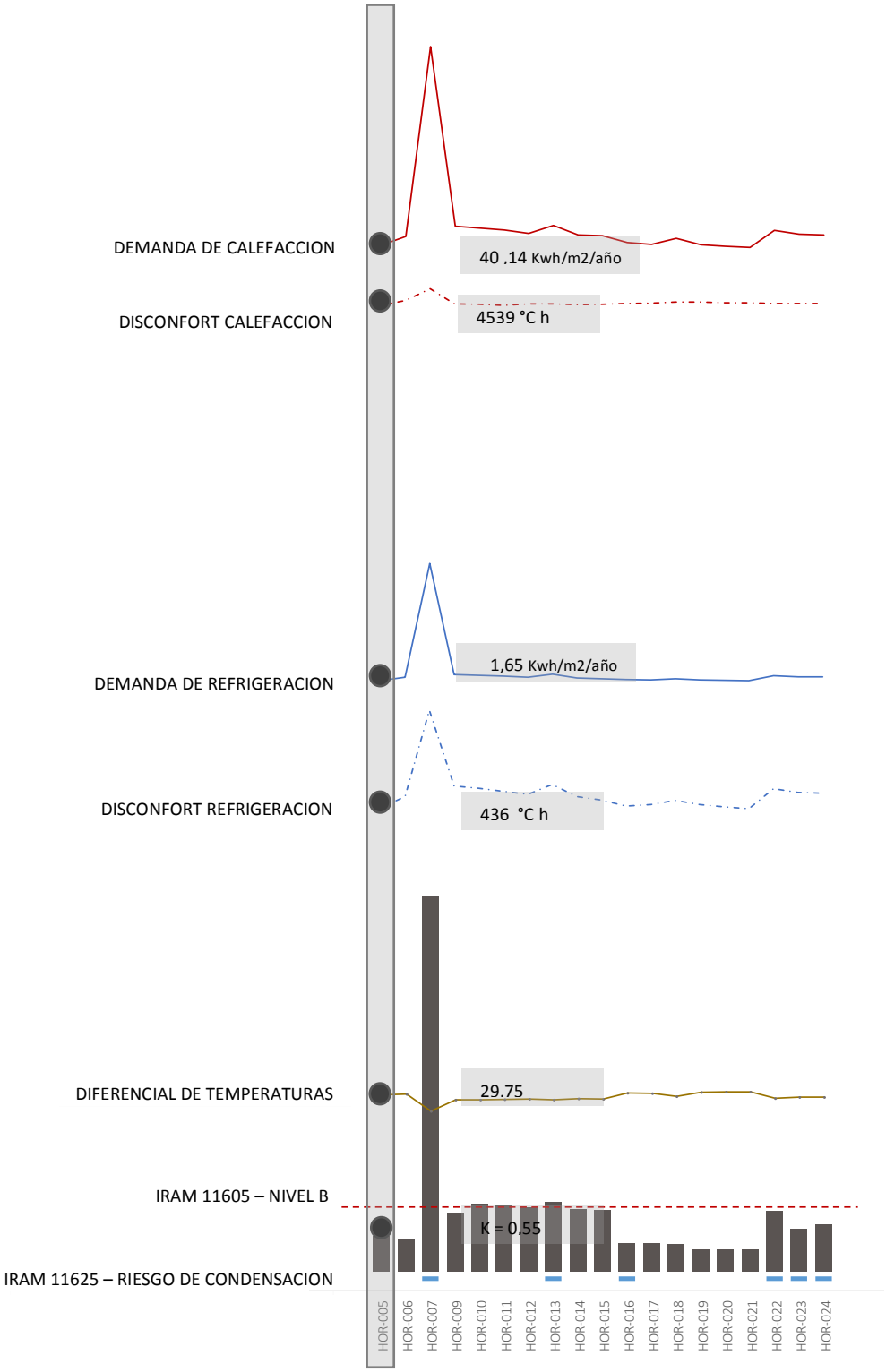



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **57,79** | kWh | 1,65 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.404,89** | kWh | 40,14 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.462,68** | kWh | **41,79** | kWh/m2/año |

| HOR-005 | EP | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 068 | N° 065 | N° 019 | N° 015 | N° 029 | N° 018 |



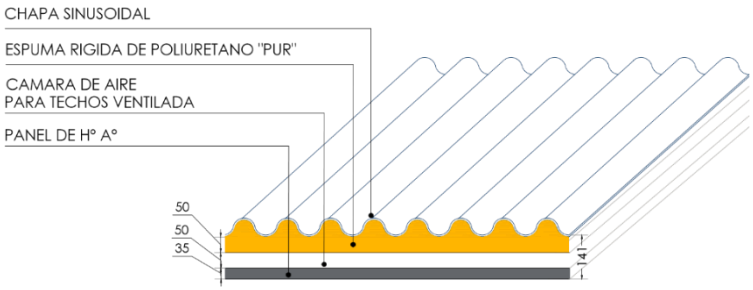

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,55 | 0% | 29,75 | 40,14 | 1,65 | 4539 | 436 |
| INC. FAMILIA | 56,86% | 0% | 101,36% | 86,48% | 35,91% | 104,21% | 68,25% |
| INC. MUNDIAL | 67,90% | 0% | 100,17% | 90,25% | 40,11% | 99,52% | 69,02% |

| HOR-006 | CU | HORMIGON |
|---|---|---|

PANEL TECHO H°A° NERVURADO CON TERMINACION DE CHAPA.

## INDICE DE TRANSMITANCIA TERMICA "K"

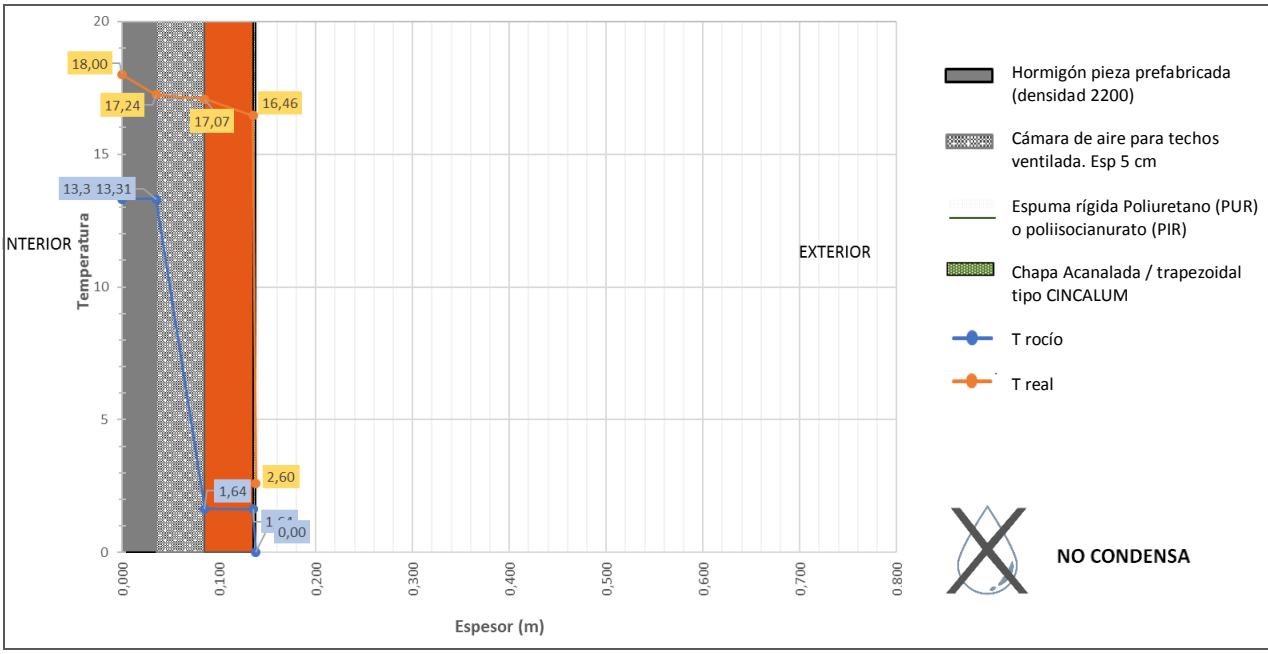
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,48 | 0,49 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



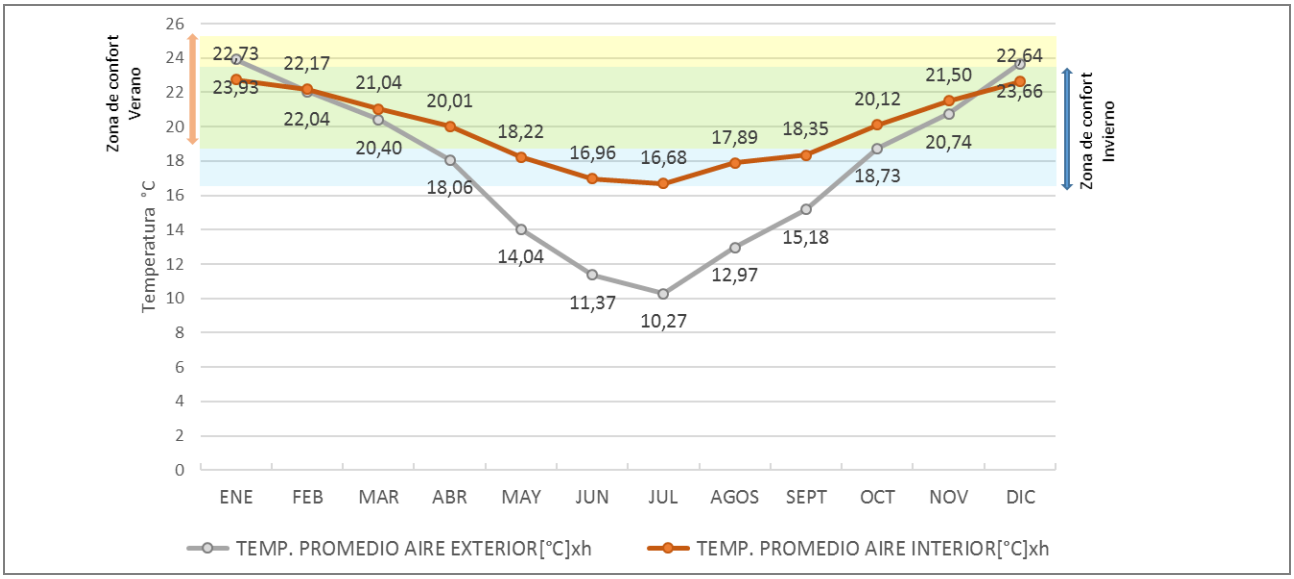

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 1,3 | Invierno 12,5 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,0** | **9,2** |
| | **Amortiguamiento:** | 0,328 | 0,033 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,0** | **8,9** |
| | **Amortiguamiento:** | 0,347 | 0,098 |

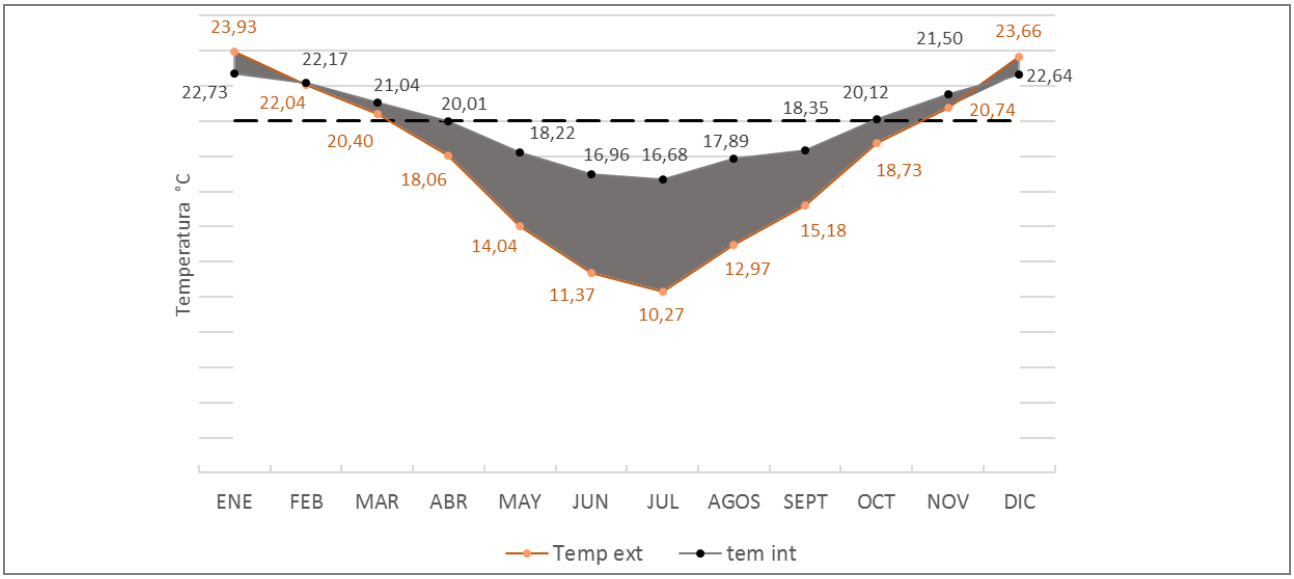
| HOR-006 | CU | HORMIGON |
|---|---|---|

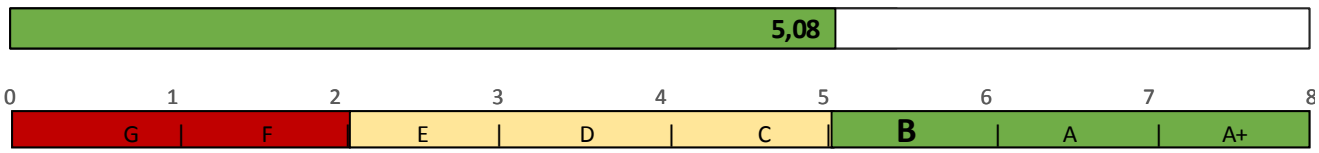
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,34** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,02** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



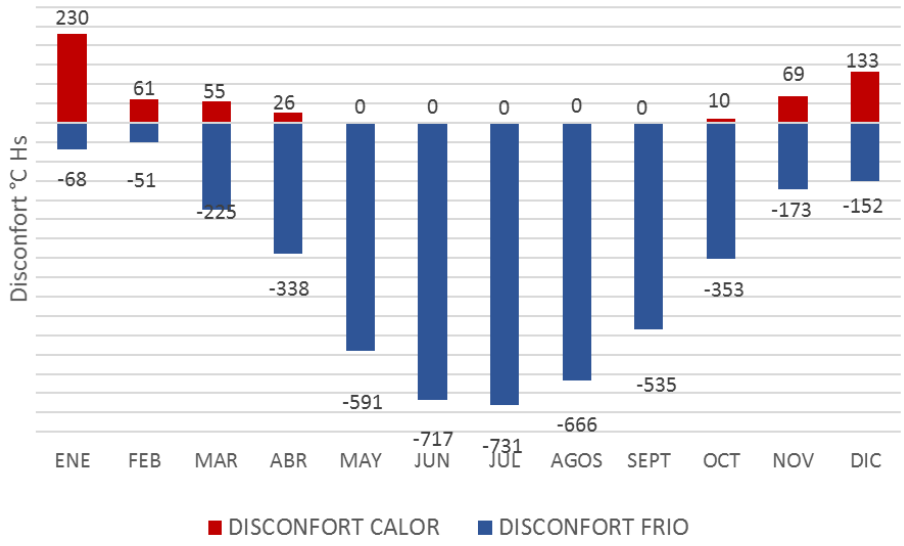




5,08 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| HOR-006 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

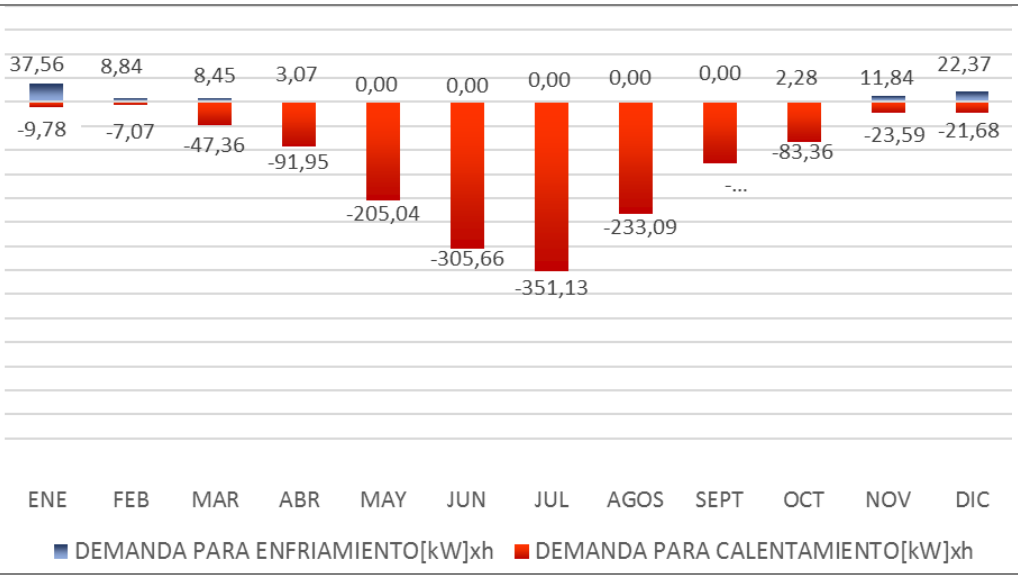
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **584** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.597** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.181** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

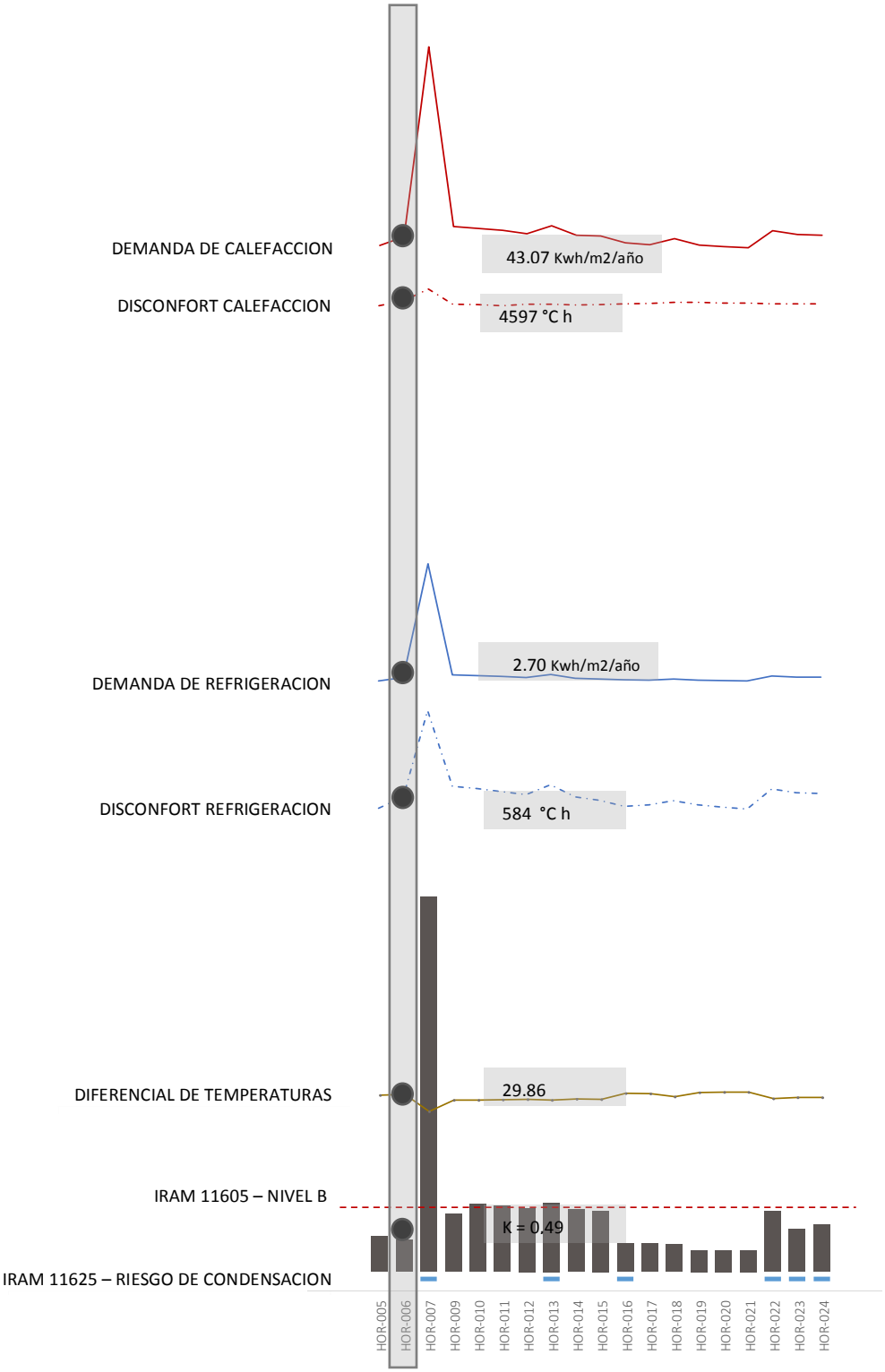



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **94,42** | kWh | 2,70 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.507,56** | kWh | 43,07 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.601,97** | kWh | **45,77** | kWh/m2/año |

| HOR-006 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 061 | N° 057 | N° 069 | N° 060 | N° 092 | N° 061 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,49 | 0% | 29,86 | 43,07 | 2,7 | 4597 | 584 |
| INC. FAMILIA | 50,66% | 0% | 101,73% | 92,79% | 58,76% | 105,54% | 91,42% |
| INC. MUNDIAL | 60,49% | 0% | 100,54% | 96,83% | 65,64% | 100,79% | 92,45% |

| HOR-007 | CU | HORMIGON |
|---|---|---|

PANEL DE TECHO DE HORMIGON ARMADO ACANALADO.

## INDICE DE TRANSMITANCIA TERMICA "K"

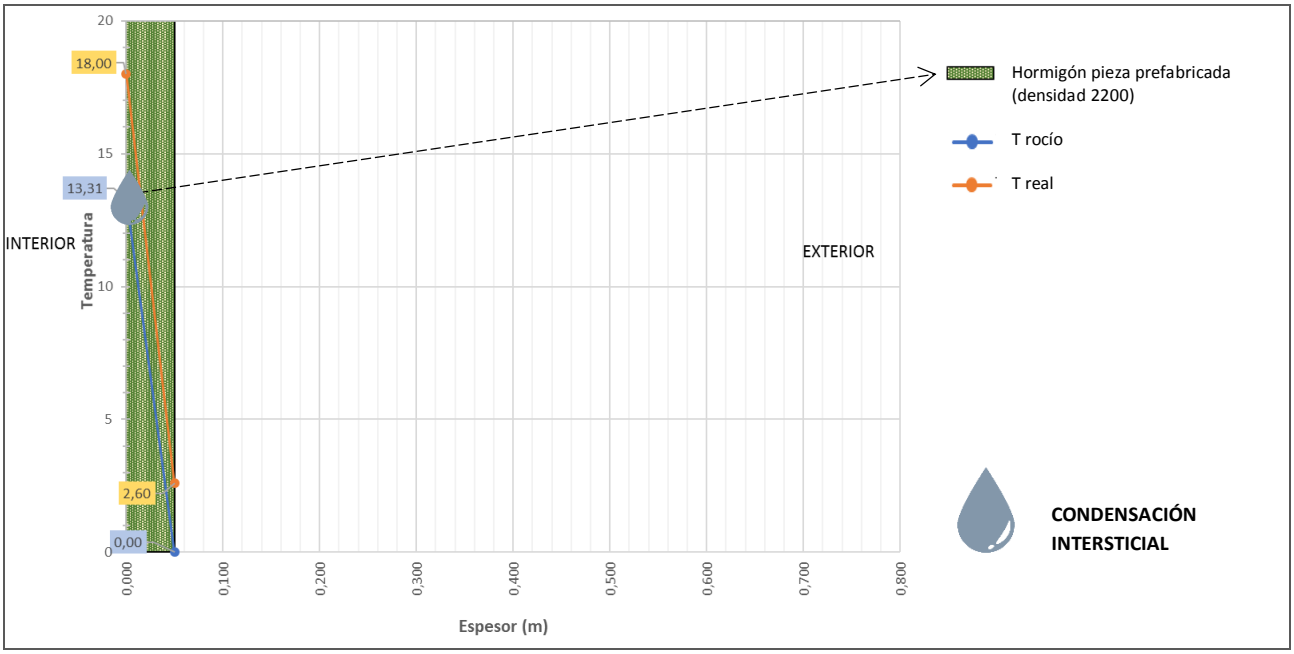
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 4,13 | 5,82 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



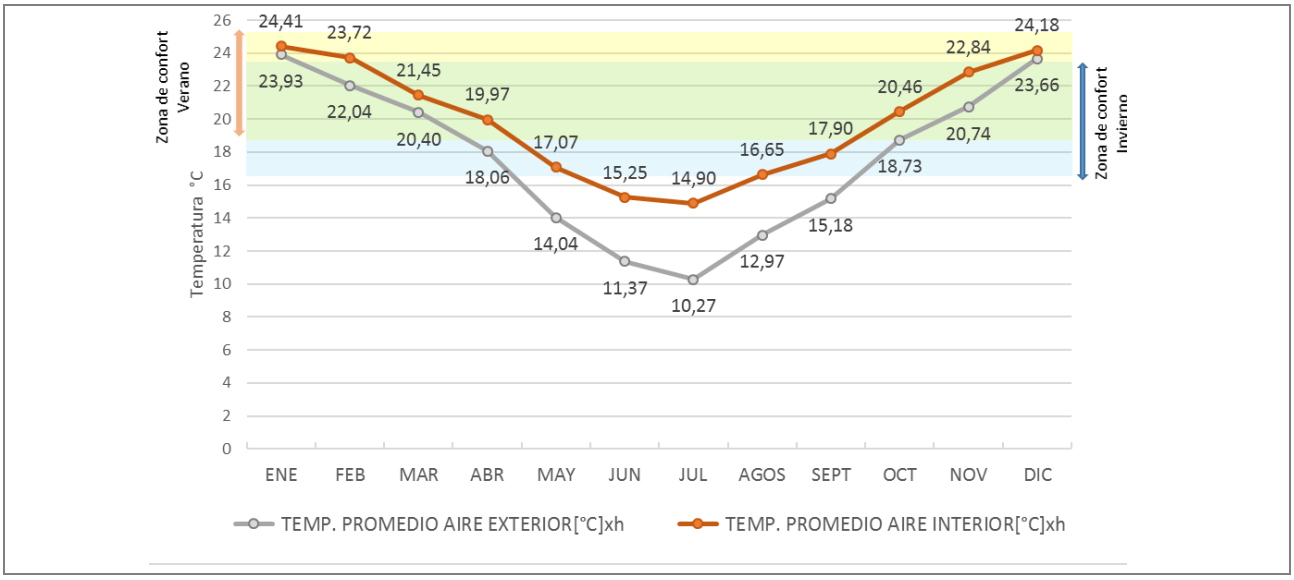

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1727,0 | 1814,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **1,8** | **1,9** |
| | **Amortiguamiento:** | 0,508 | 0,612 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,2** | **2,3** |
| | **Amortiguamiento:** | 0,332 | 0,546 |

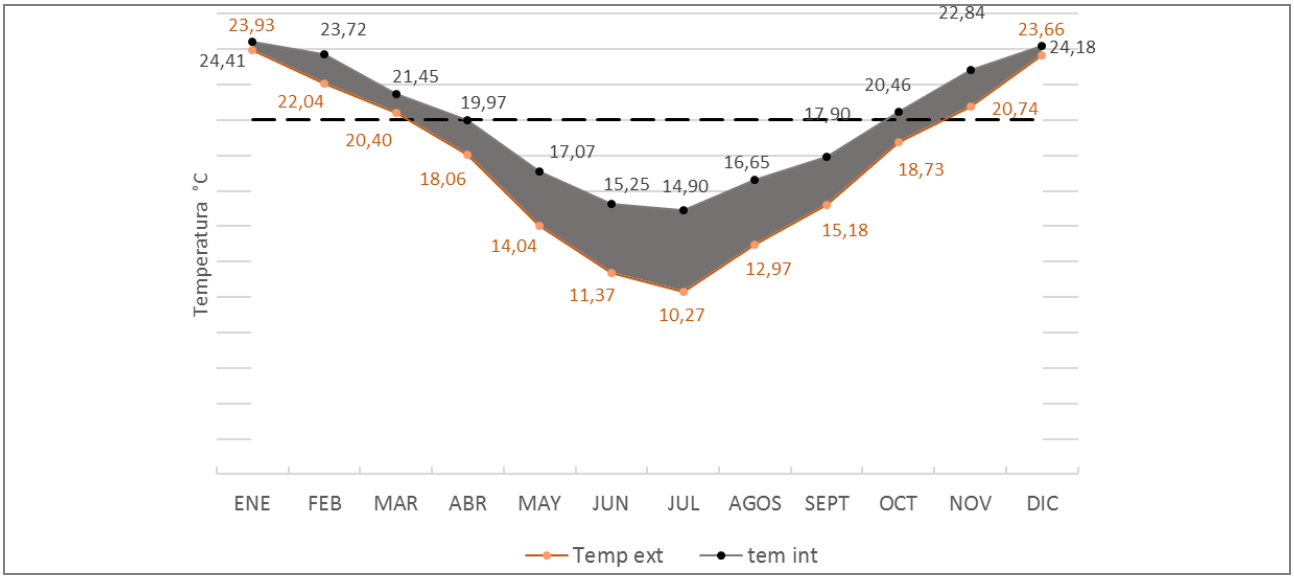
| HOR-007 | CU | HORMIGON |
|---|---|---|

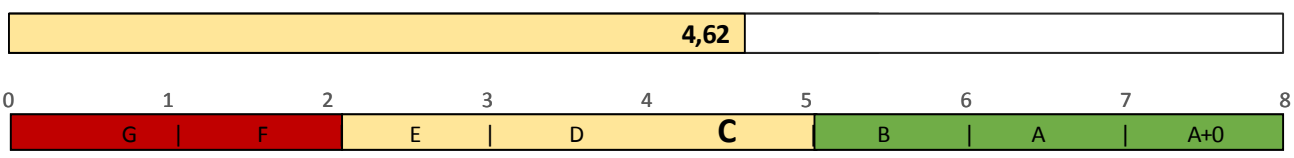
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 04/01 17:00 hs | **33,97** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **8,00** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



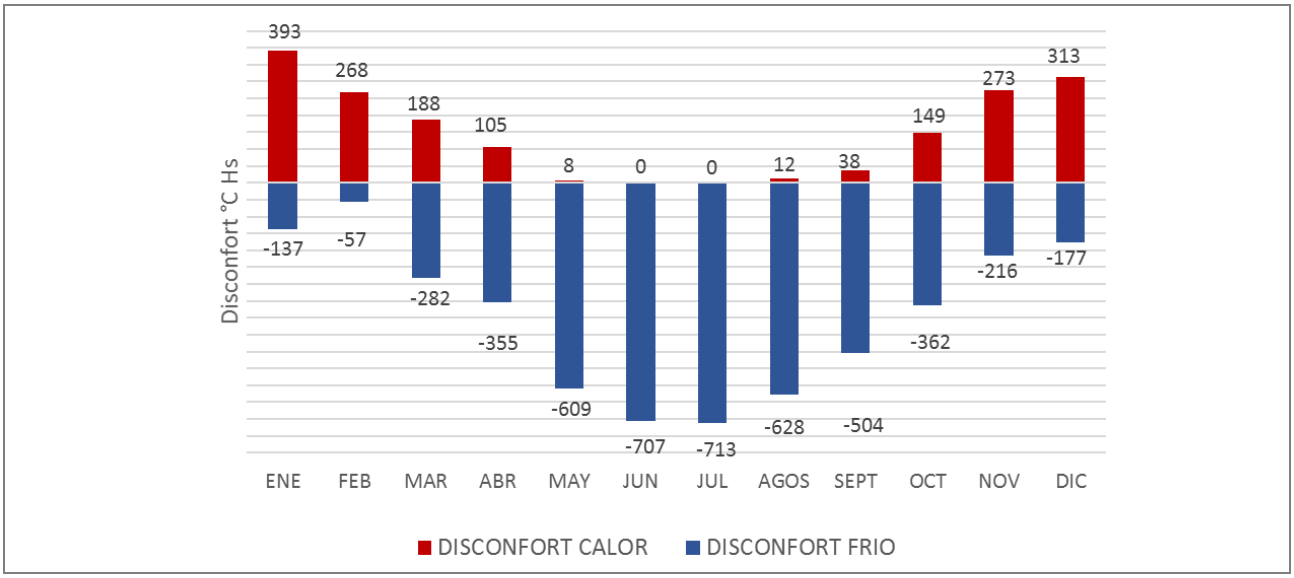




4,62 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,58

| HOR-007 | CU | HORMIGON |
|---|---|---|

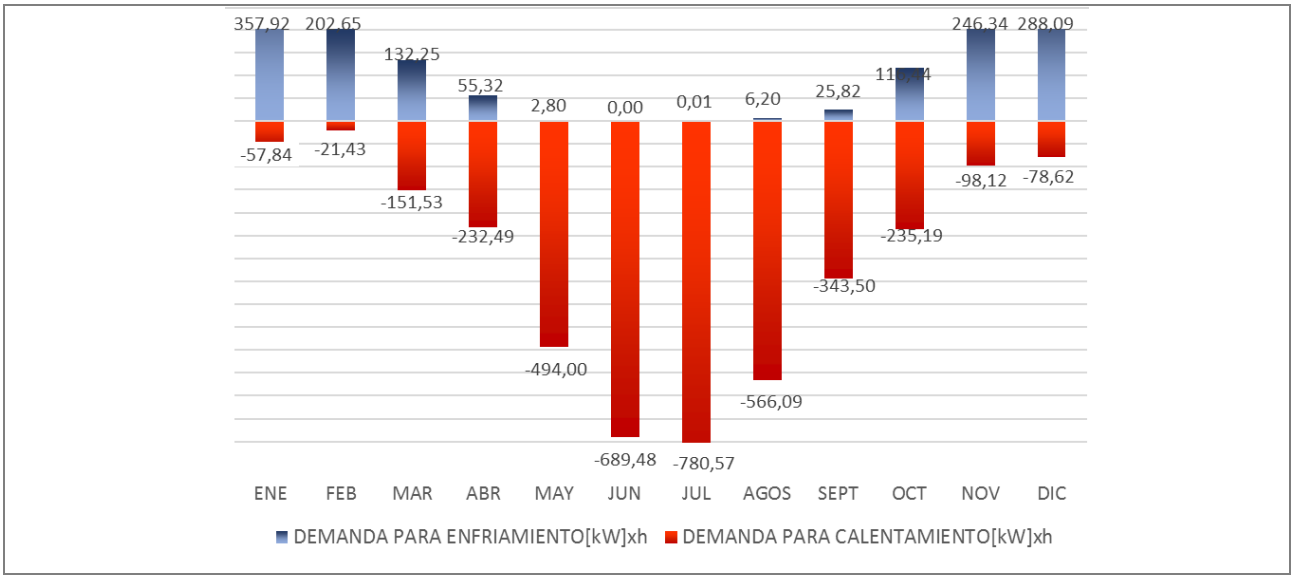
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.746** | °C Hs | 20% |
| HORAS DE DISCONFORT POR FRÍO | **4.748** | °C Hs | 54% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **6.494** | **°C Hs** | **74%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

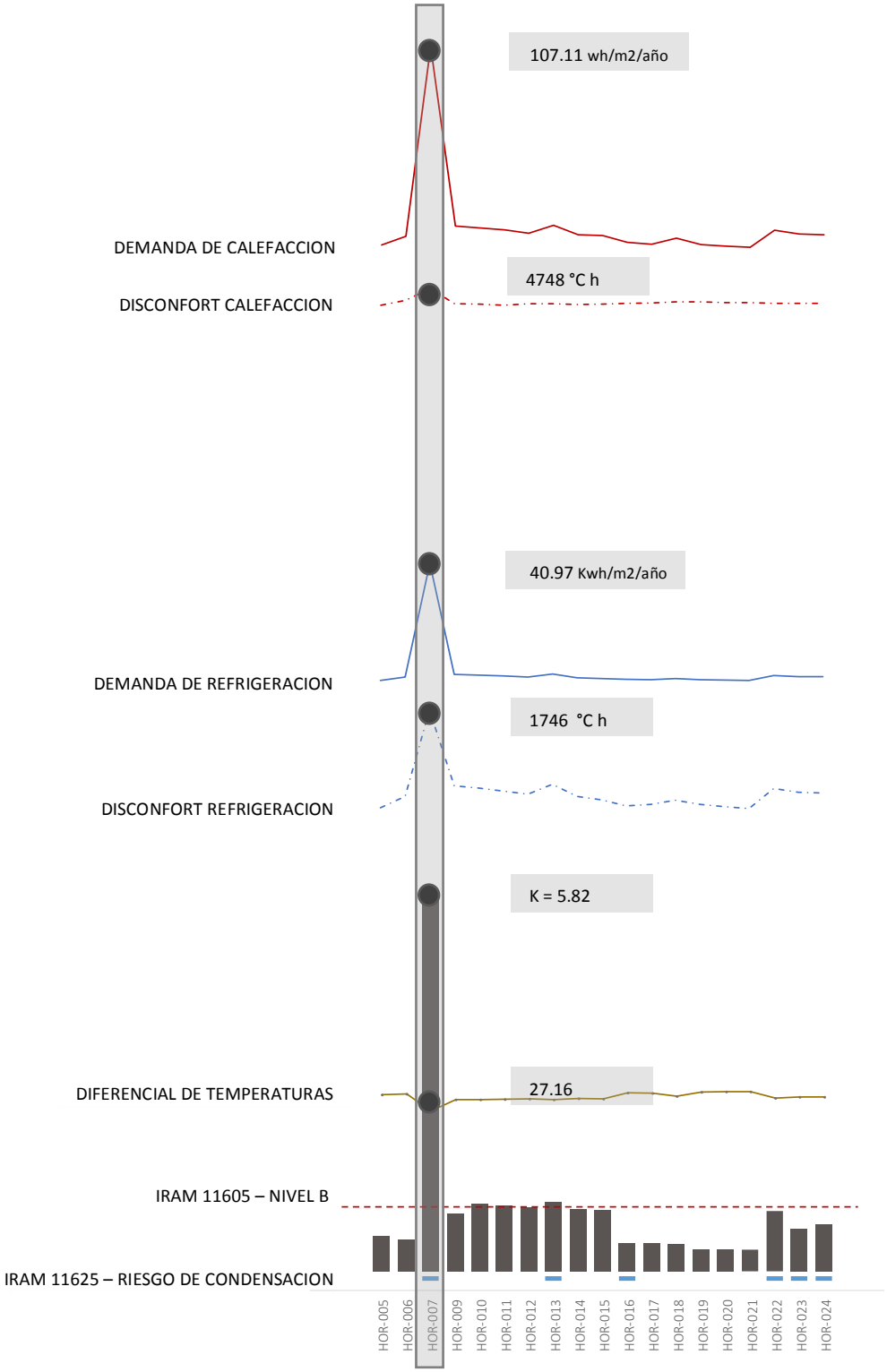



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **1.433,83** | kWh | 40,97 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **3.748,87** | kWh | 107,11 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **5.182,70** | kWh | **148,08** | kWh/m2/año |

| HOR-007 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 117 | N° 117 | N° 117 | N° 117 | N° 118 | N° 117 |



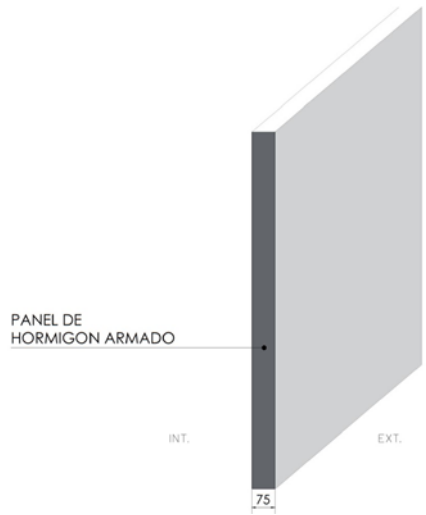

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 5,82 | 100% | 27,16 | 107,11 | 40,97 | 4748 | 1746 |
| INC. FAMILIA | 601,72% | 0% | 92,53% | 230,76% | 891,67% | 109,01% | 273,31% |
| INC. MUNDIAL | 718,52% | 0% | 91,45% | 240,81% | 996,05% | 104,10% | 276,41% |

| HOR-008 | MU | HORMIGON |
|---|---|---|

PANEL CENEFA LATERAL DE HORMIGON ARMADO.

## INDICE DE TRANSMITANCIA TERMICA "K"

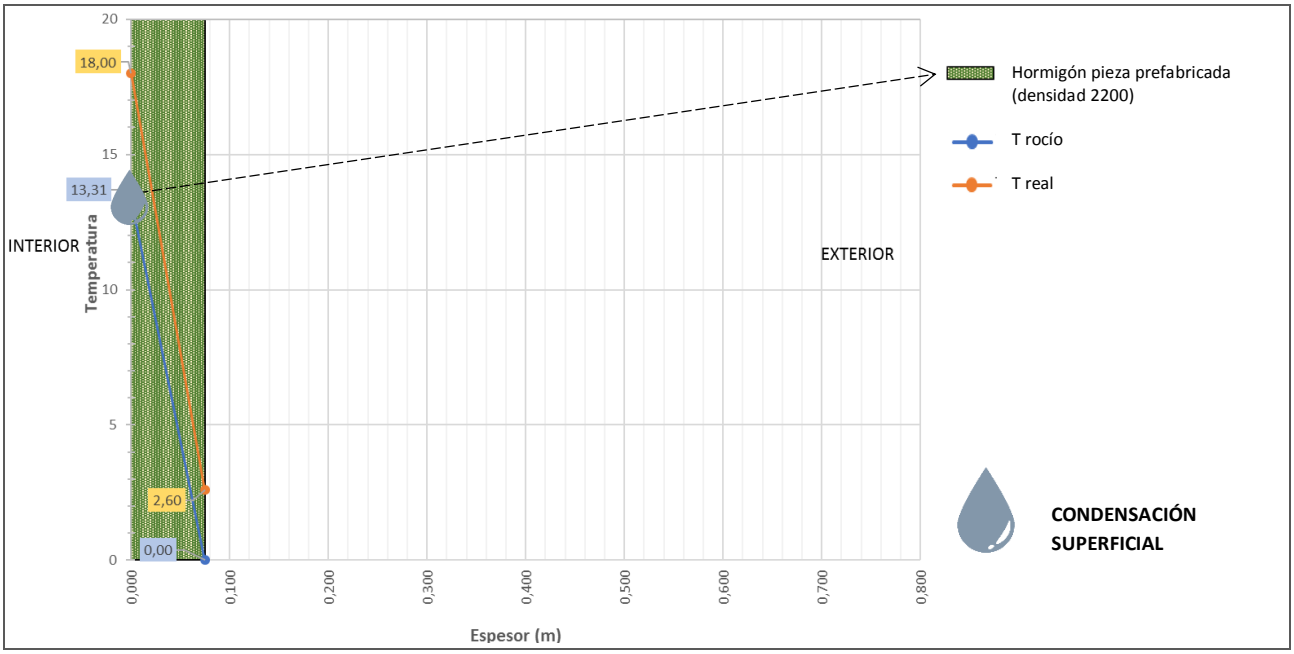
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 4,22 | 4,22 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



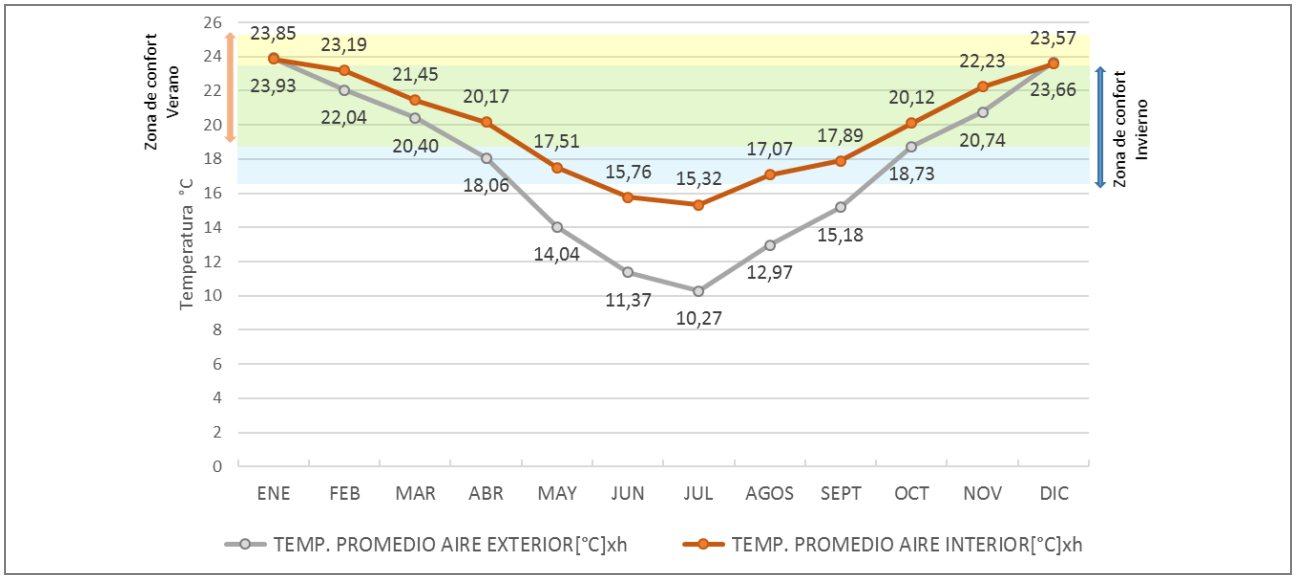

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 1120,0 | Invierno |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,1** | |
| | **Amortiguamiento:** | 0,444 | |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,8** | **3,2** |
| | **Amortiguamiento:** | 0,282 | 0,428 |

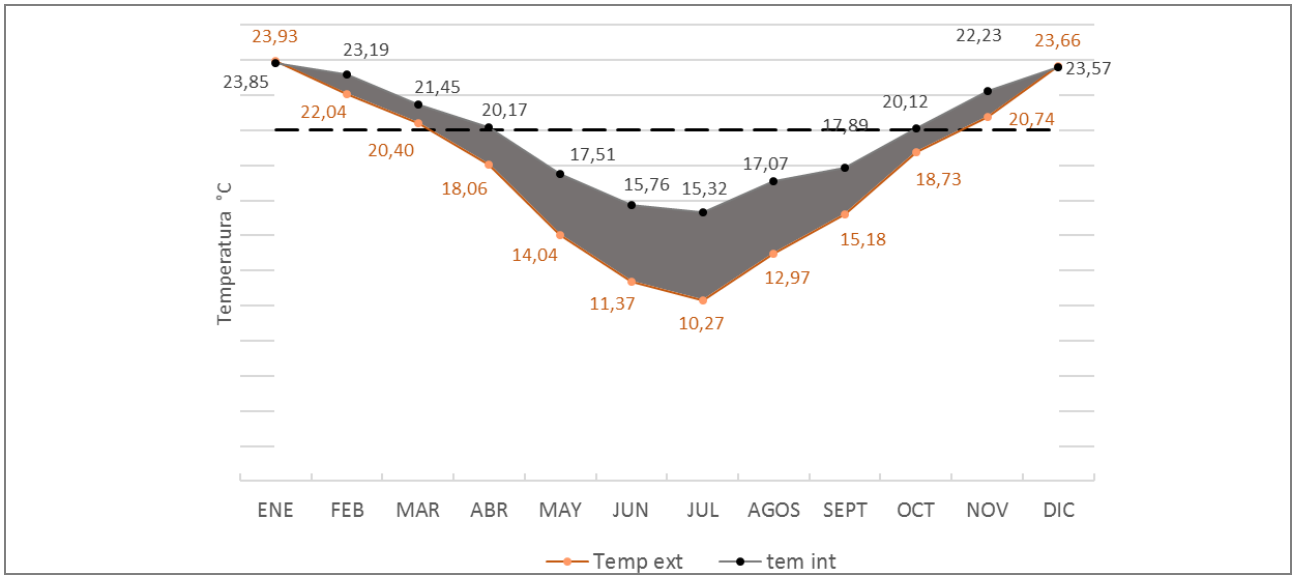
| HOR-008 | MU | HORMIGON |
|---|---|---|

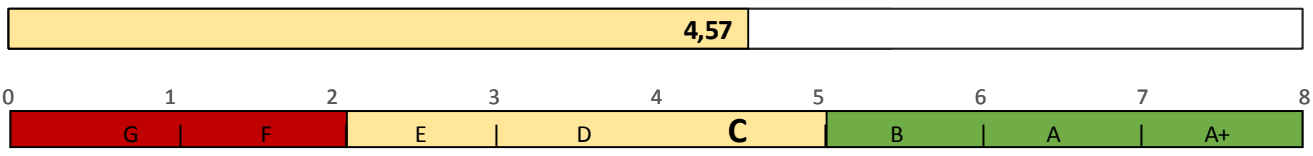
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 07/11 19:00 hs | **31,56** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **8,29** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



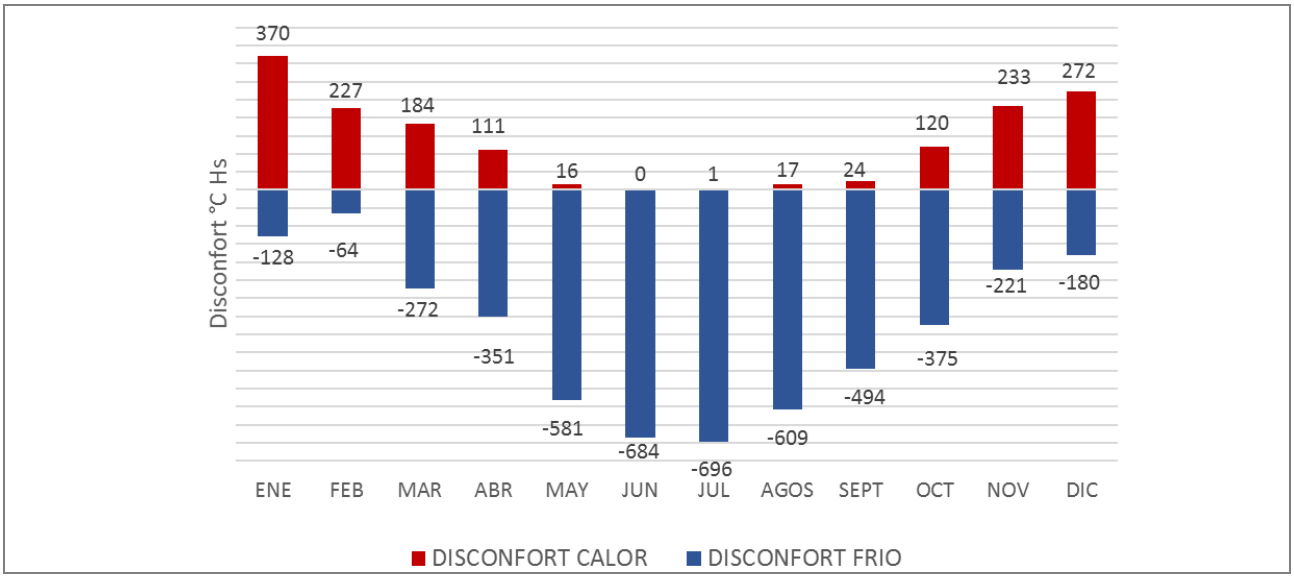




4,57 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,57

| HOR-008 | MU | HORMIGON |
|---|---|---|

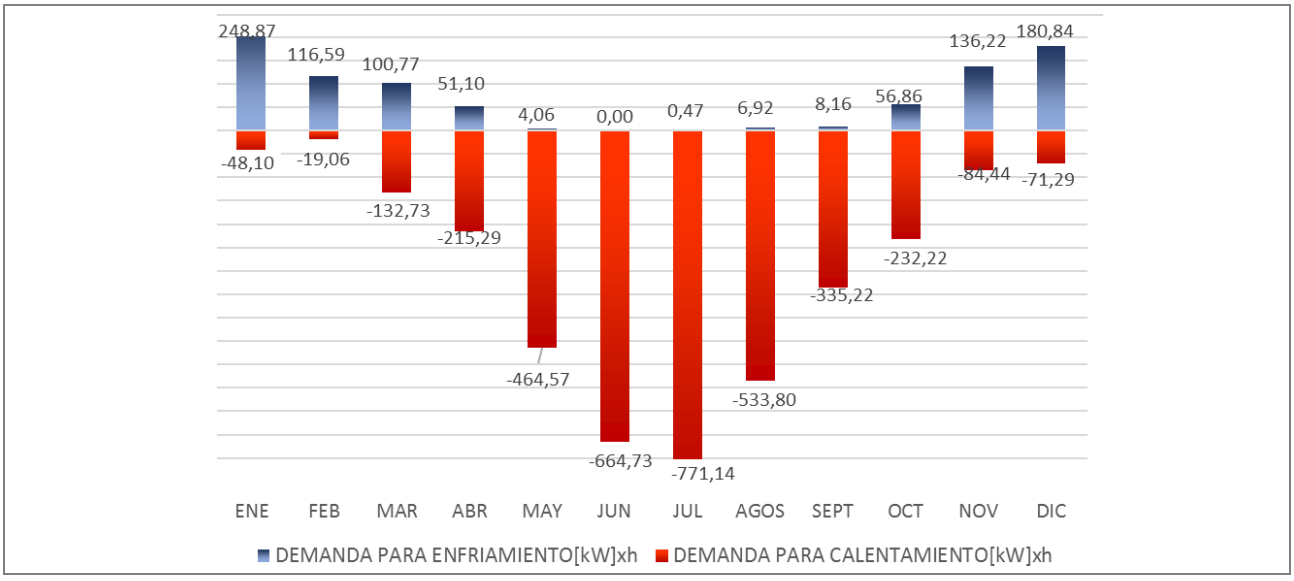
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.576** | °C Hs | 18% |
| HORAS DE DISCONFORT POR FRÍO | **4.655** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **6.230** | **°C Hs** | **71%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

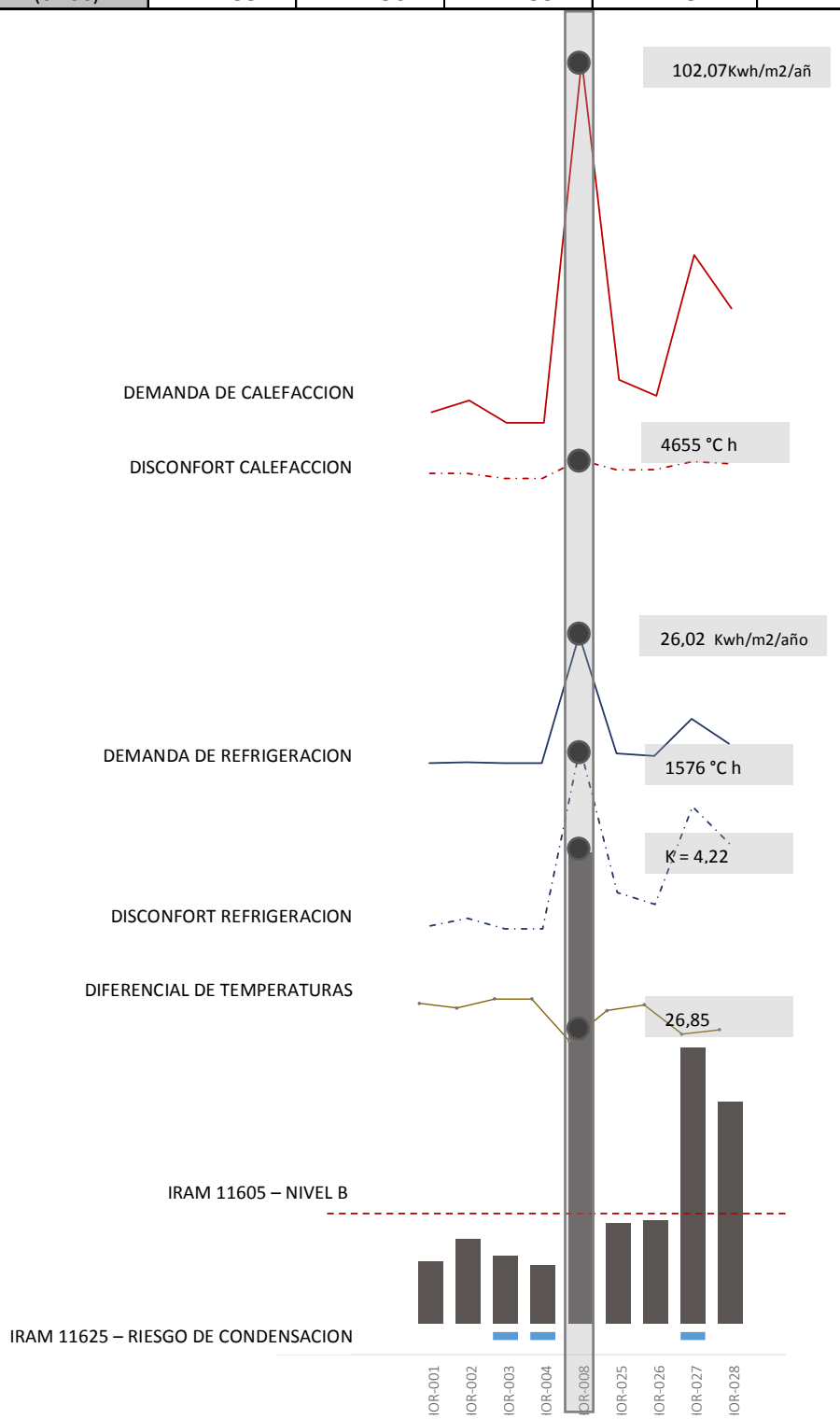



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **910,86** | kWh | 26,02 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **3.572,60** | kWh | 102,07 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **4.483,46** | kWh | **128,10** | kWh/m2/año |

| HOR-008 | MU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 195 | N° 196 | N° 195 | N° 191 | N° 196 | N° 192 |



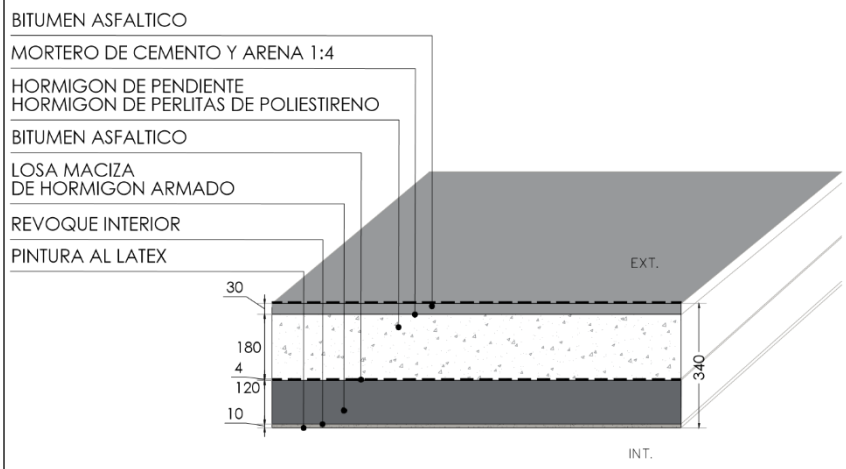

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,45 | 33% | 29,28 | 47,97 | 5,74 | 4583 | 570 |
| INDIVIDUAL | 4,22 | 0% | 26,85 | 102,07 | 26,02 | 4655 | 1576 |
| INC. FAMILIA | 291,10% | 0,00% | 91,70% | 212,78% | 453,49% | 101,58% | 276,65% |
| INC. MUNDIAL | 354,81% | 0,00% | 87,14% | 248,19% | 433,54% | 104,34% | 308,32% |

| HOR-009 | CU | HORMIGON |
|---|---|---|

CUBIERTA HORIZONTAL LOSA MACIZA DE H°A°.

## INDICE DE TRANSMITANCIA TERMICA "K"

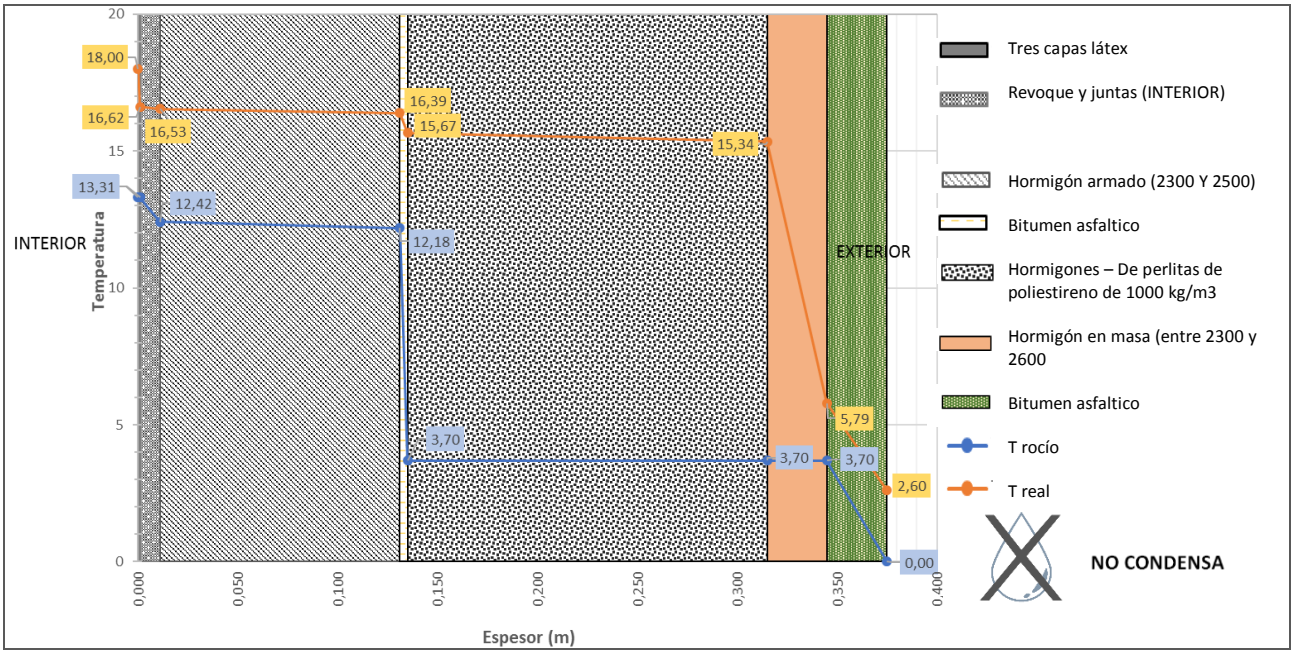
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,84 | 0,90 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



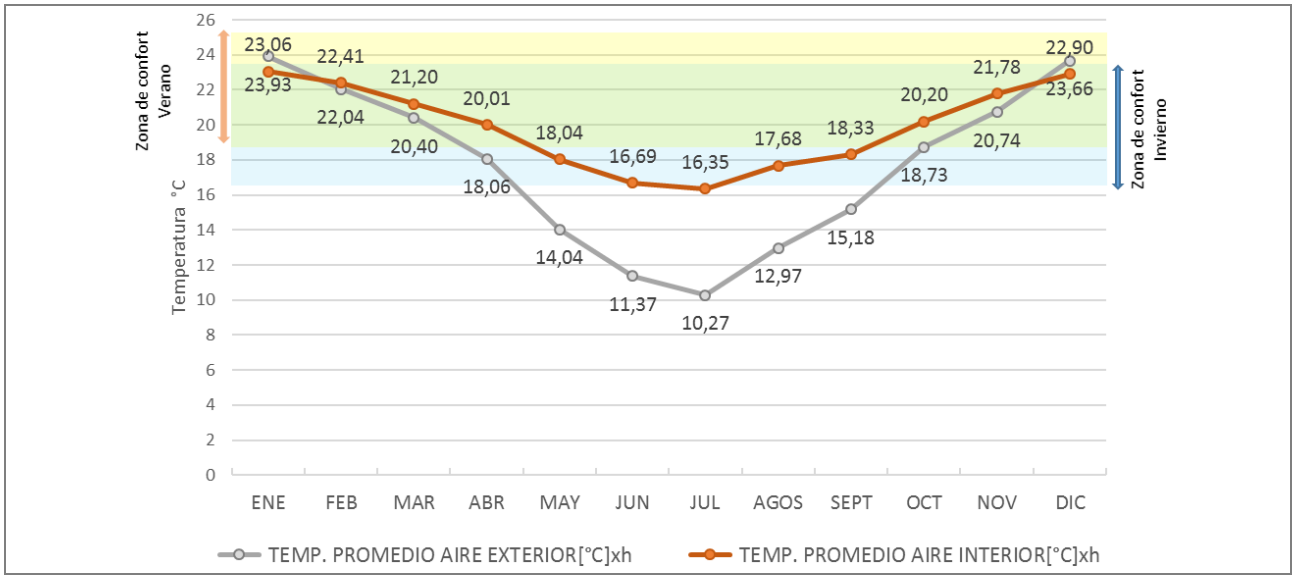

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | 384,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | **26,5** |
| | **Amortiguamiento:** | | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **19,7** | **21,5** |
| | **Amortiguamiento:** | 0,006 | 0,004 |

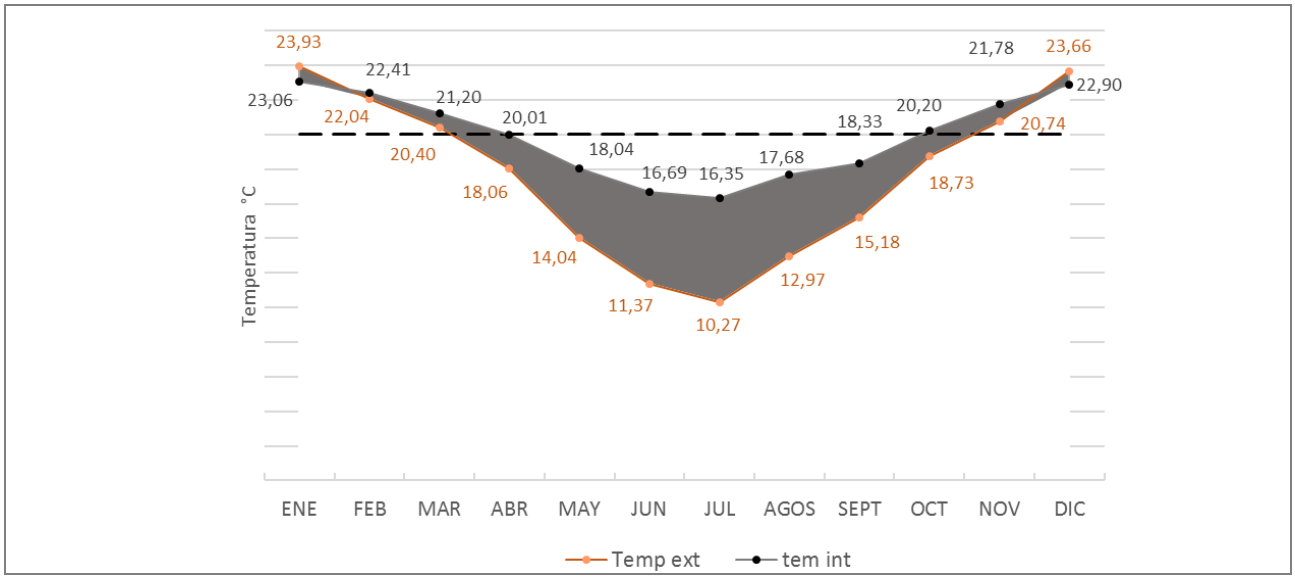
| HOR-009 | CU | HORMIGON |
|---|---|---|

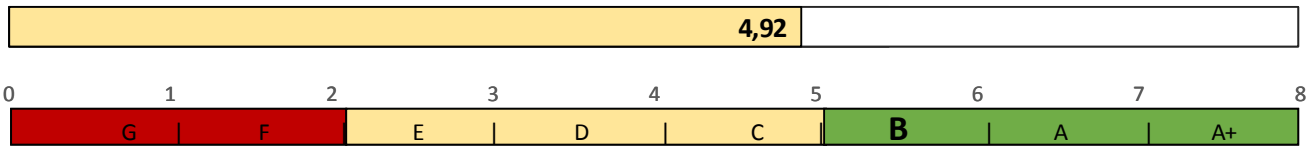
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 19:00 hs | **26,57** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,78** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



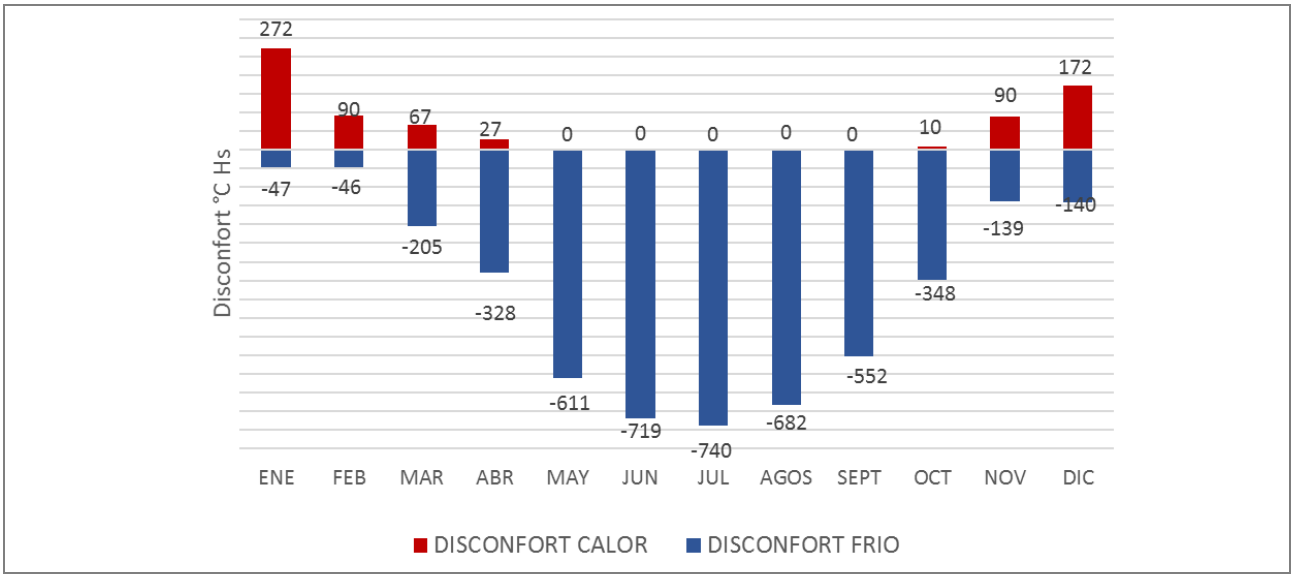




4,92 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| HOR-009 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

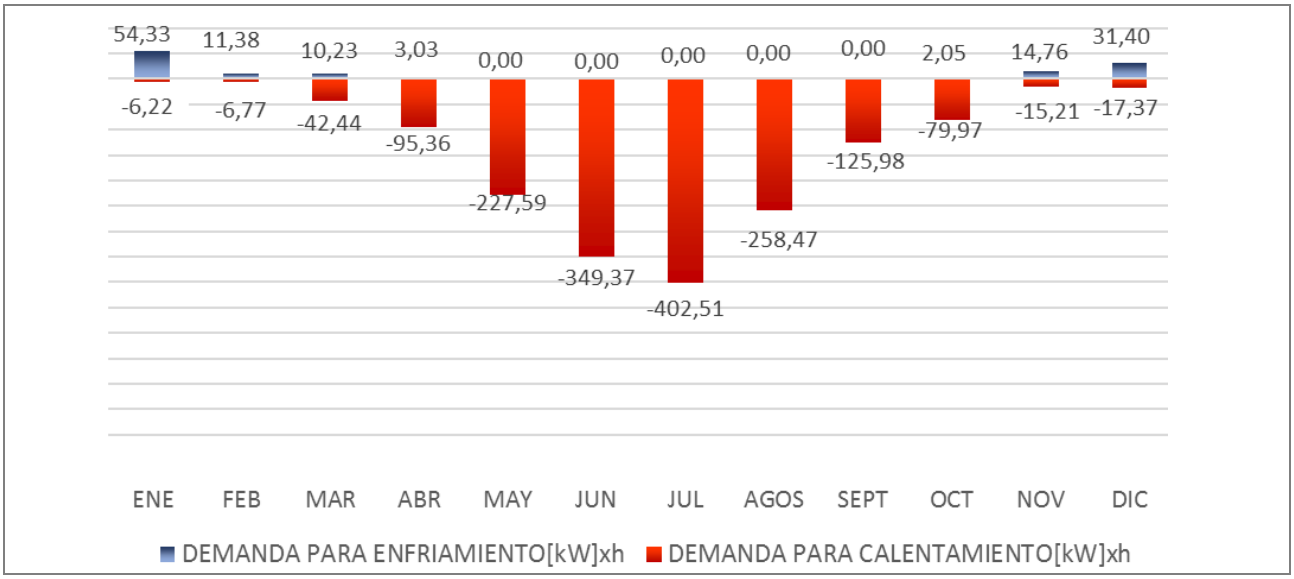
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **728** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.557** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.285** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

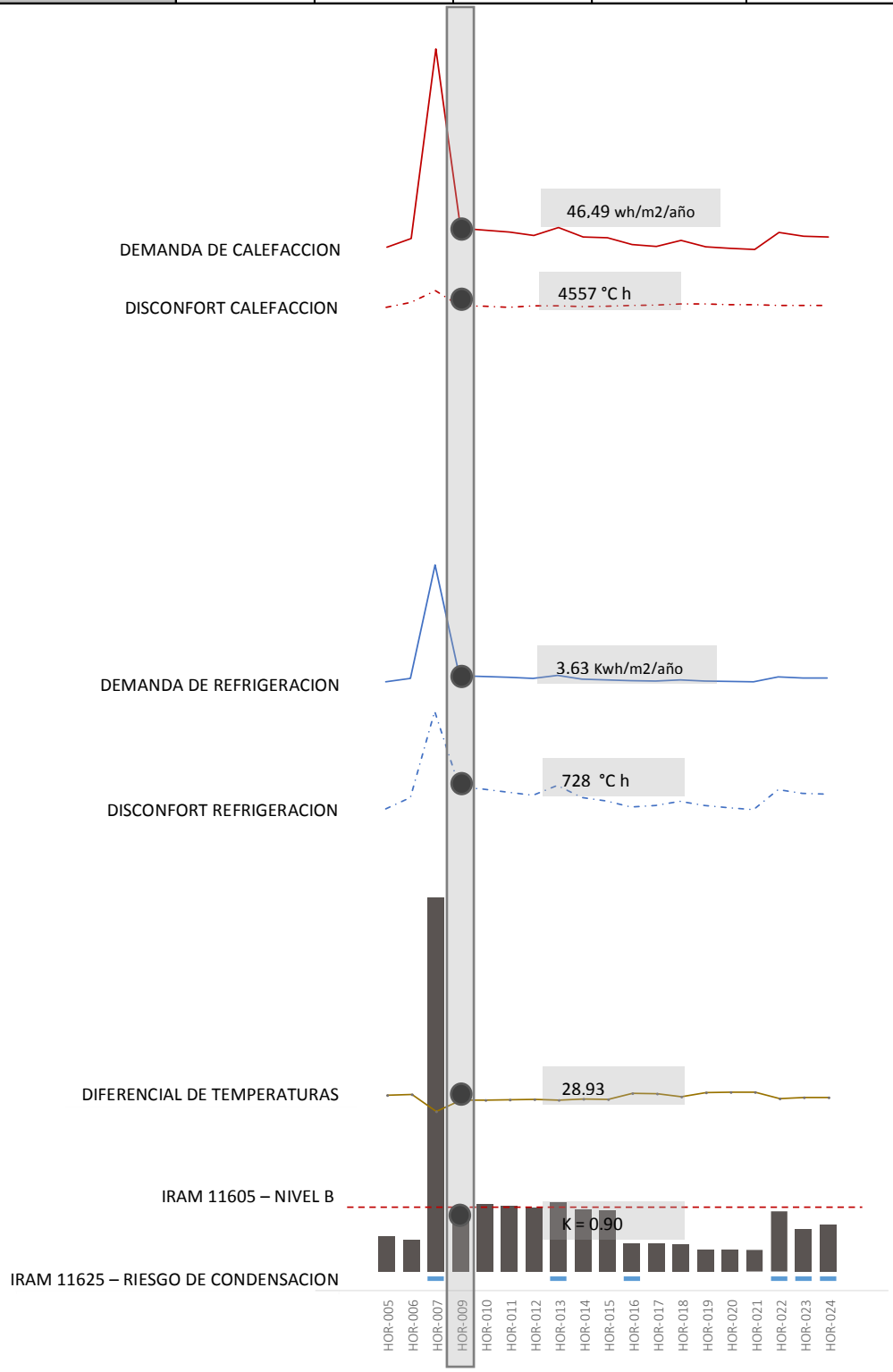



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **127,17** | kWh | 3,63 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.627,26** | kWh | 46,49 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.754,43** | kWh | **50,13** | kWh/m2/año |

| HOR-009 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 092 | N° 102 | N° 102 | N° 099 | N° 043 | N° 101 |



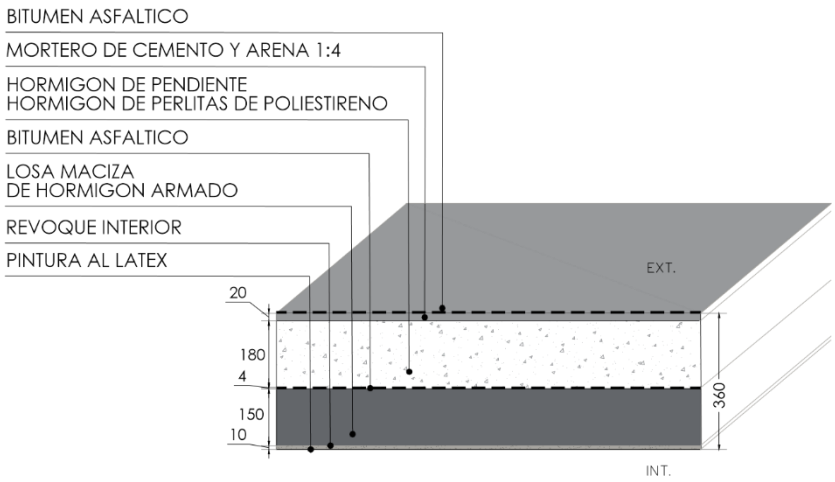

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,9 | 0% | 28,93 | 46,49 | 3,63 | 4557 | 728 |
| INC. FAMILIA | 93,05% | 0% | 98,56% | 100,16% | 79,00% | 104,63% | 113,96% |
| INC. MUNDIAL | 111,11% | 0% | 97,41% | 104,52% | 88,25% | 99,91% | 115,25% |

| HOR-010 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 15 CM DE ESPESOR CON TERMINACION DE MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

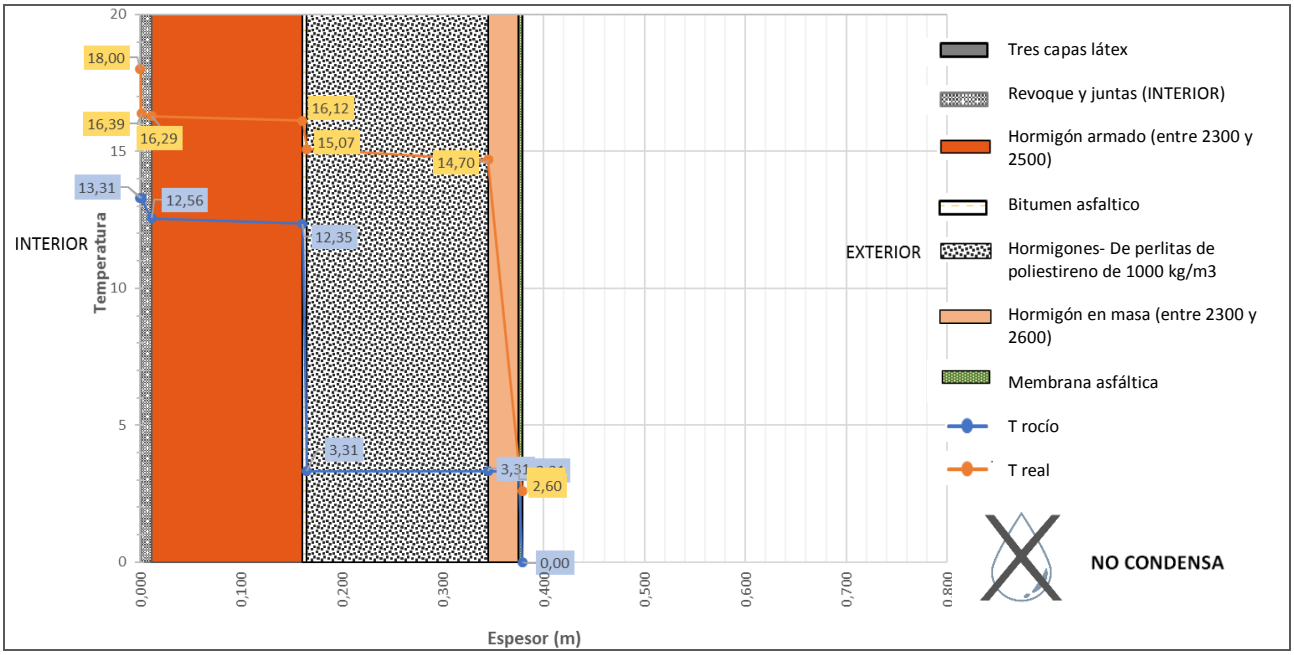
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,97 | 1,04 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



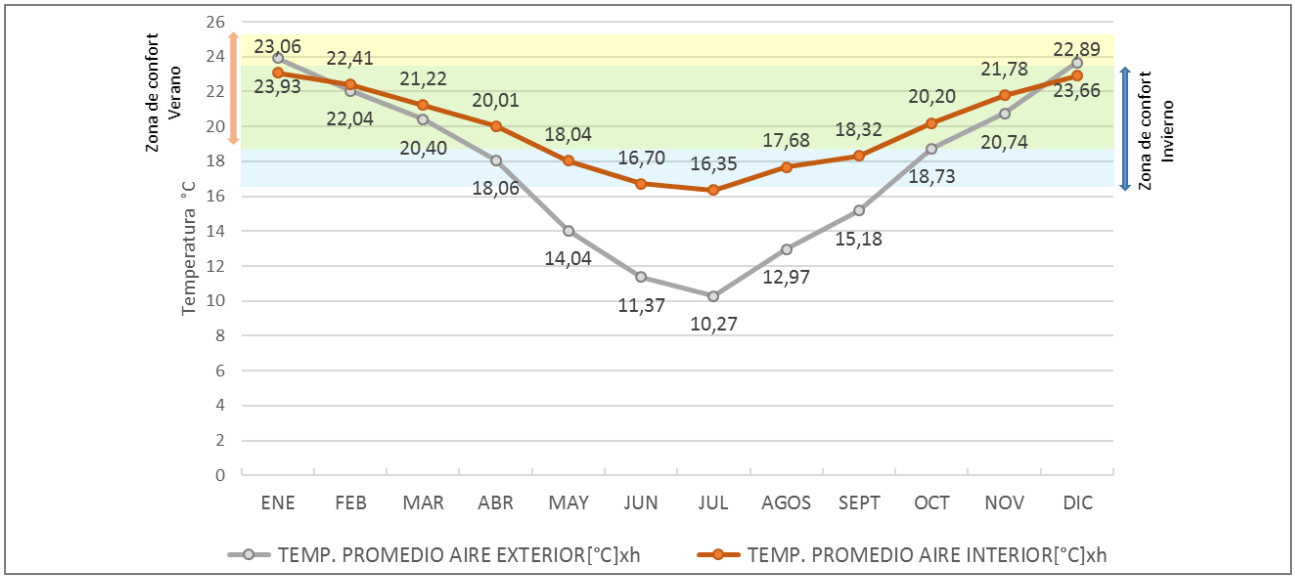

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 206,4 | Invierno 206,4 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **16,3** | **16,3** |
| | **Amortiguamiento:** | 0,002 | 0,002 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,5** | **13,0** |
| | **Amortiguamiento:** | 0,049 | 0,033 |

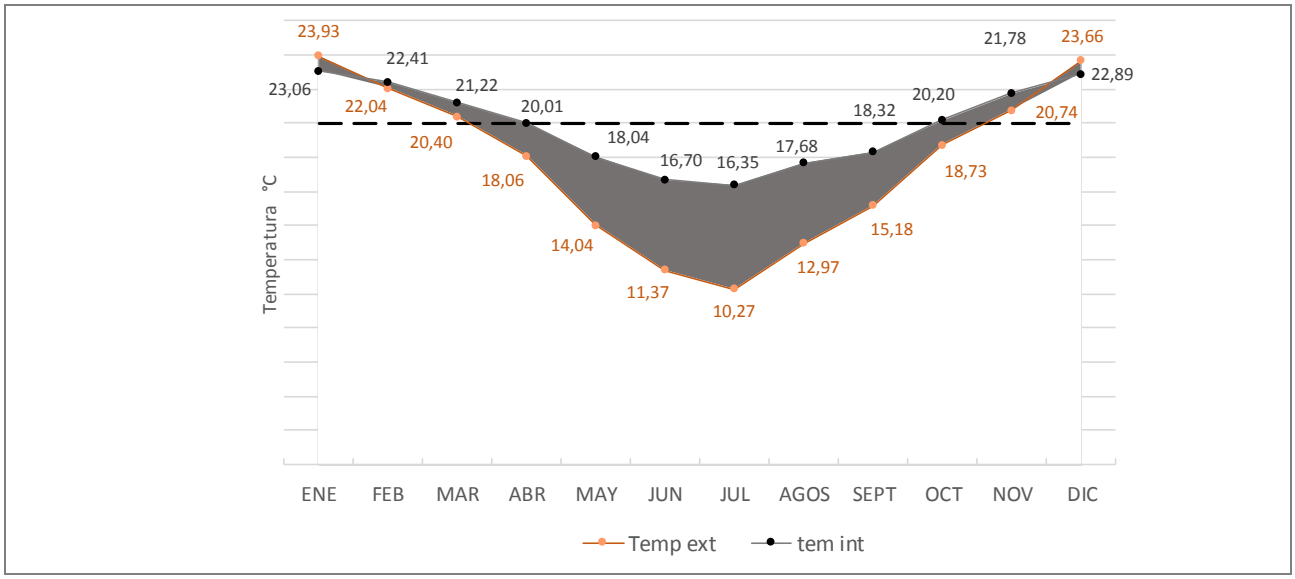
| HOR-010 | CU | HORMIGON |
|---|---|---|

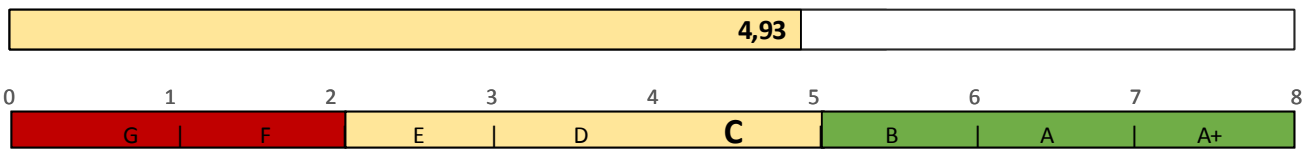
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,5** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,83** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



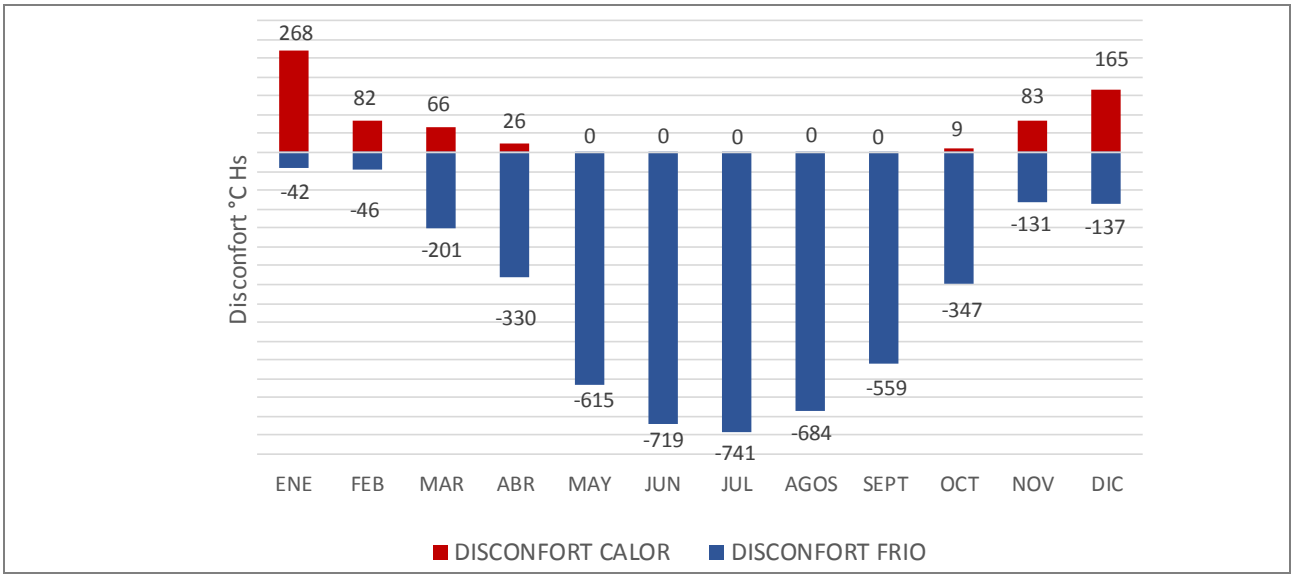




4,93 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| HOR-010 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

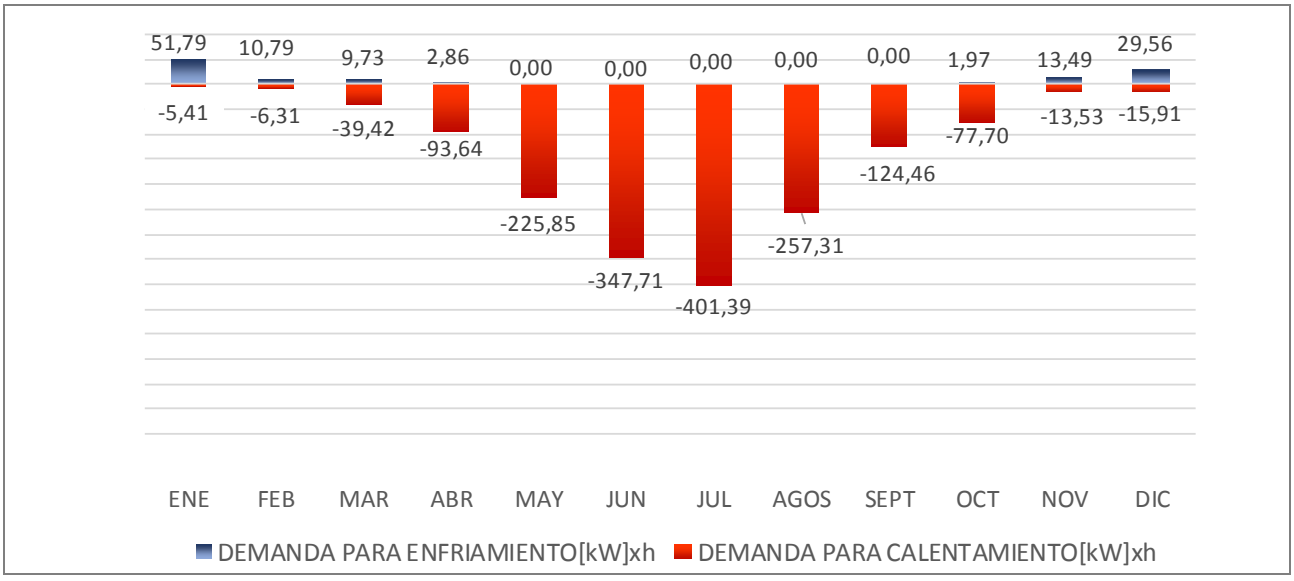
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **699** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.551** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.250** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

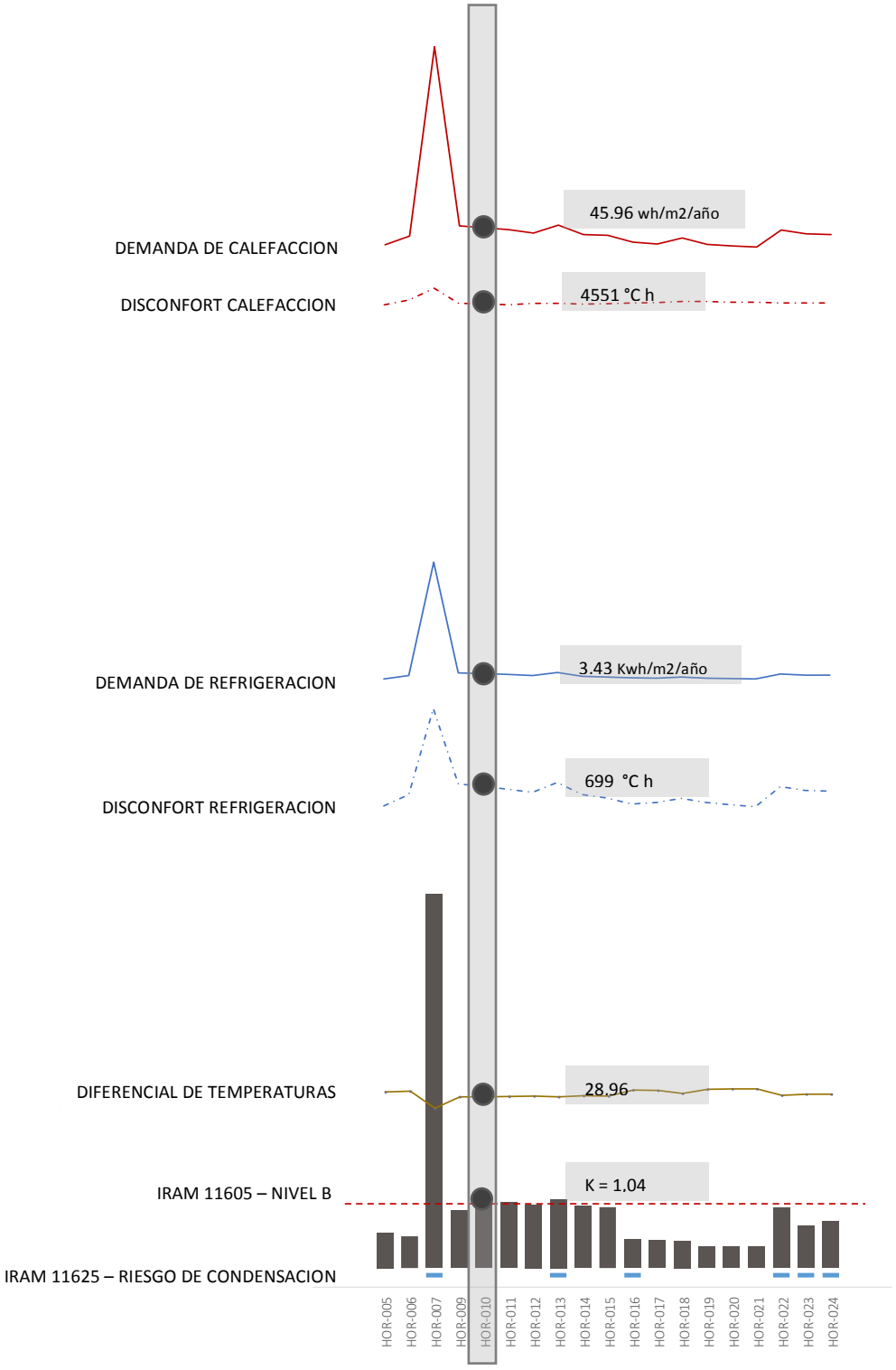



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **120,19** | kWh | 3,43 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.608,65** | kWh | 45,96 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.728,84** | kWh | **49,40** | kWh/m2/año |

| HOR-010 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 102 | N° 101 | N° 100 | N° 094 | N° 038 | N° 100 |



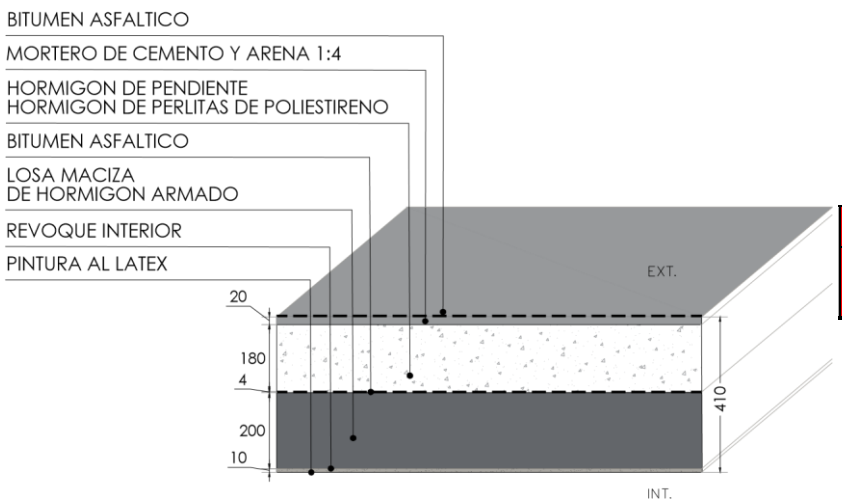

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 1,04 | 0% | 28,96 | 45,96 | 3,43 | 4551 | 699 |
| INC. FAMILIA | 107,83% | 0% | 98,66% | 99,02% | 74,65% | 104,49% | 109,42% |
| INC. MUNDIAL | 128,77% | 0% | 97,51% | 103,33% | 83,39% | 99,78% | 110,66% |

| HOR-011 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 20 CM DE ESPESOR R CON TERMINACION DE MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

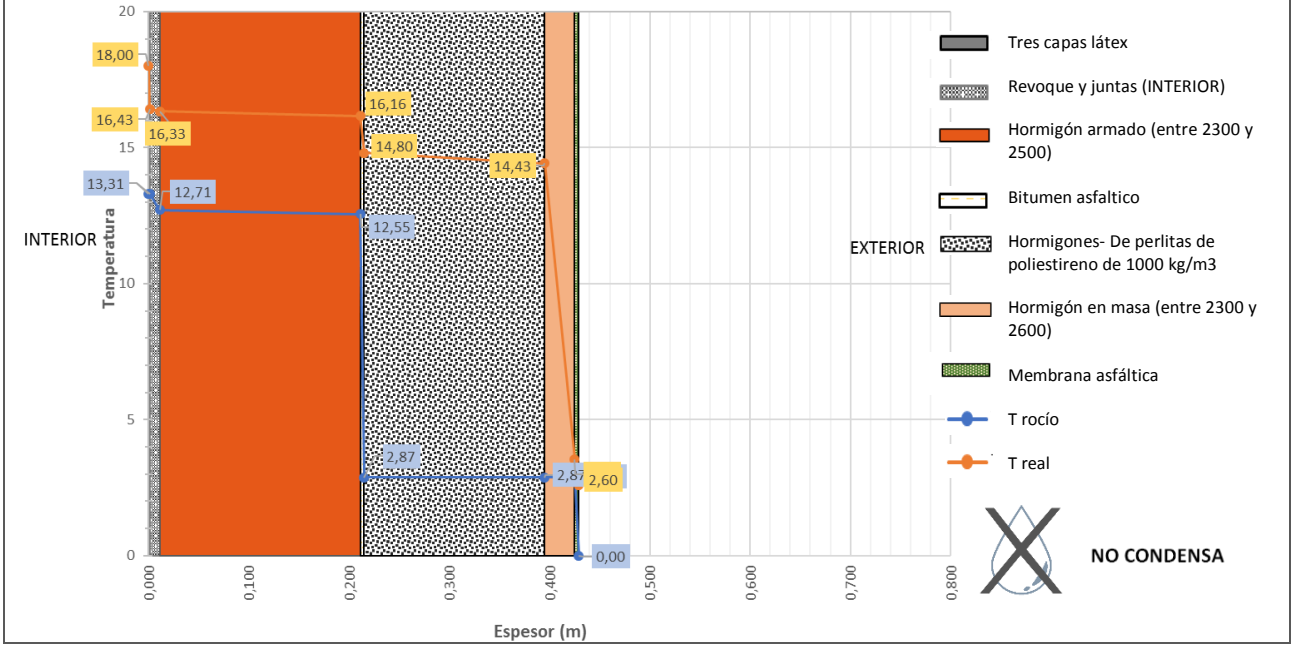
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,95 | 1,02 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



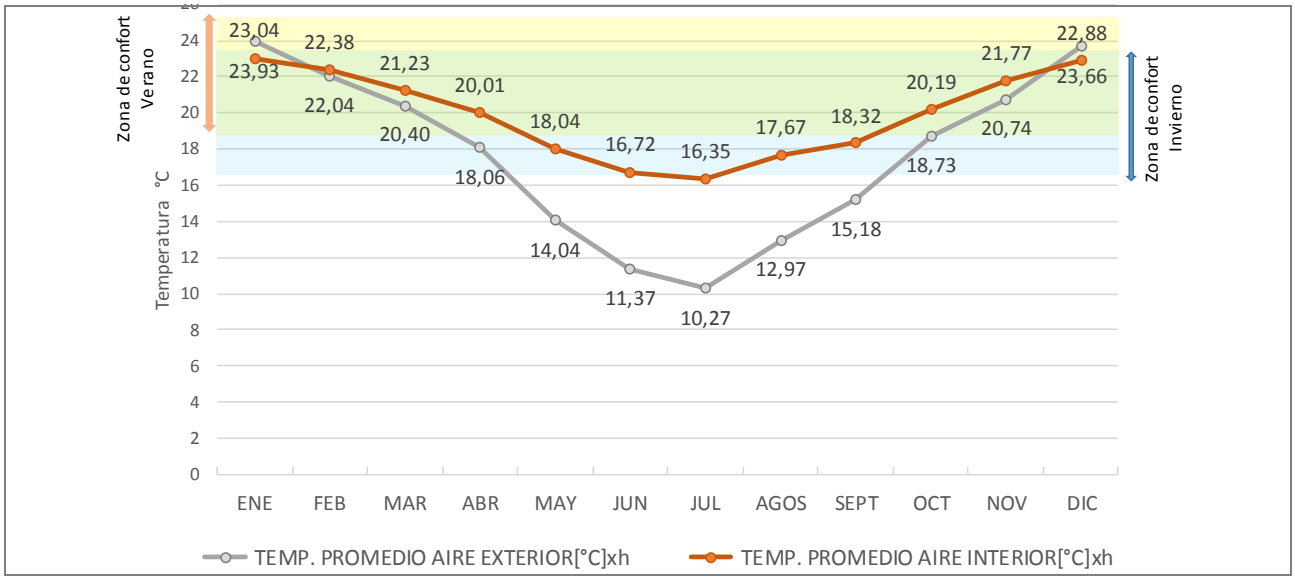

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 235,1 | 235,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **17,8** | **17,8** |
| | **Amortiguamiento:** | 0,001 | 0,001 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,2** | **14,5** |
| | **Amortiguamiento:** | 0,041 | 0,022 |

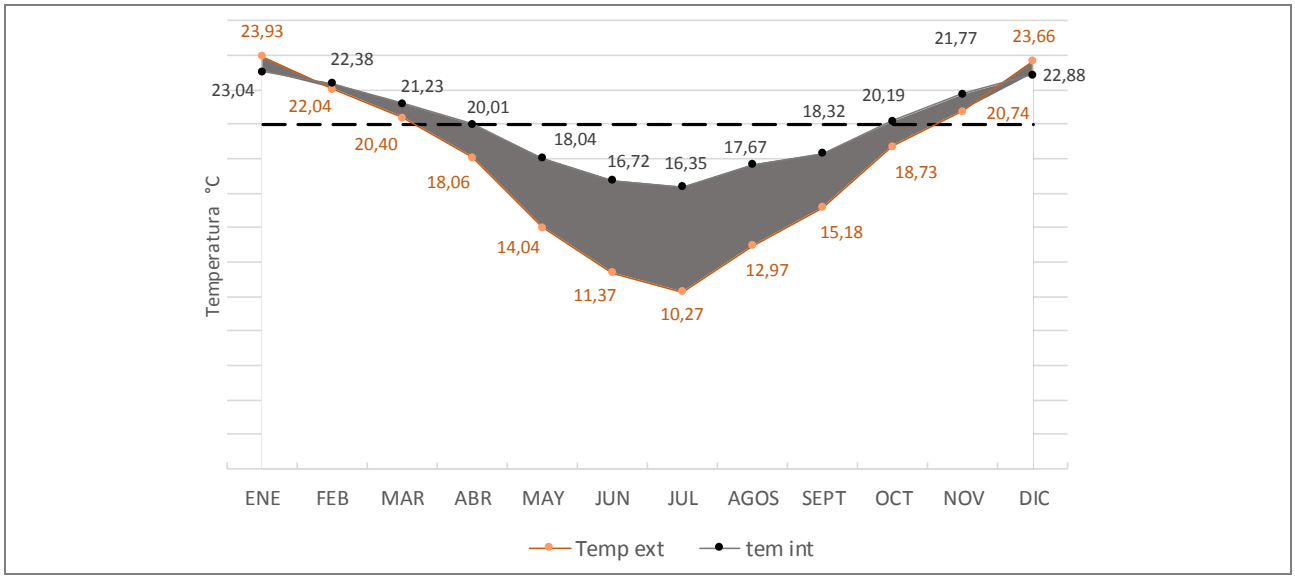
| HOR-011 | CU | HORMIGON |
|---|---|---|

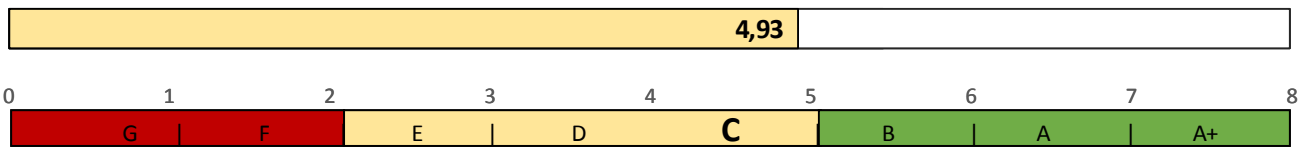
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,37** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,91** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



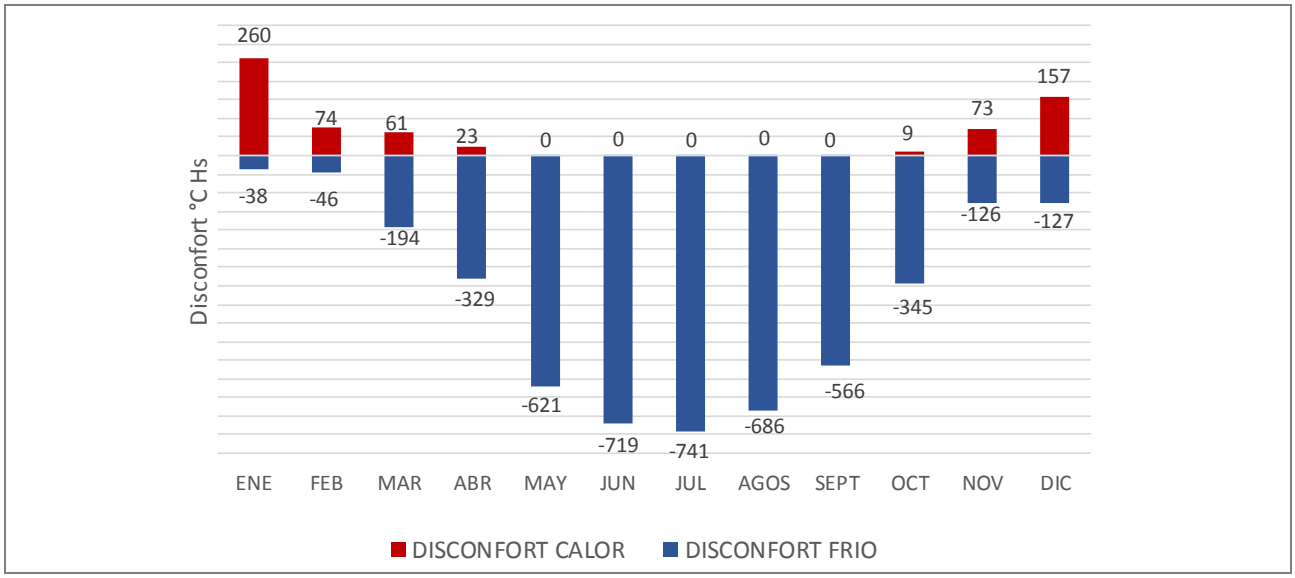




4,93 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| HOR-011 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

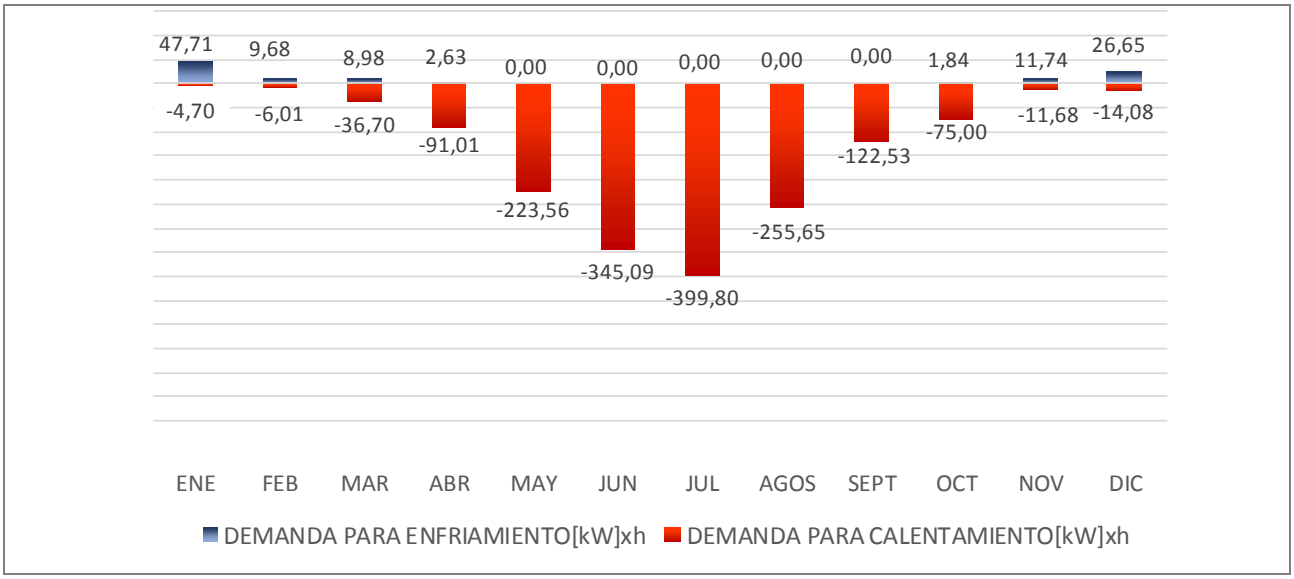
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **658** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.538** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.195** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

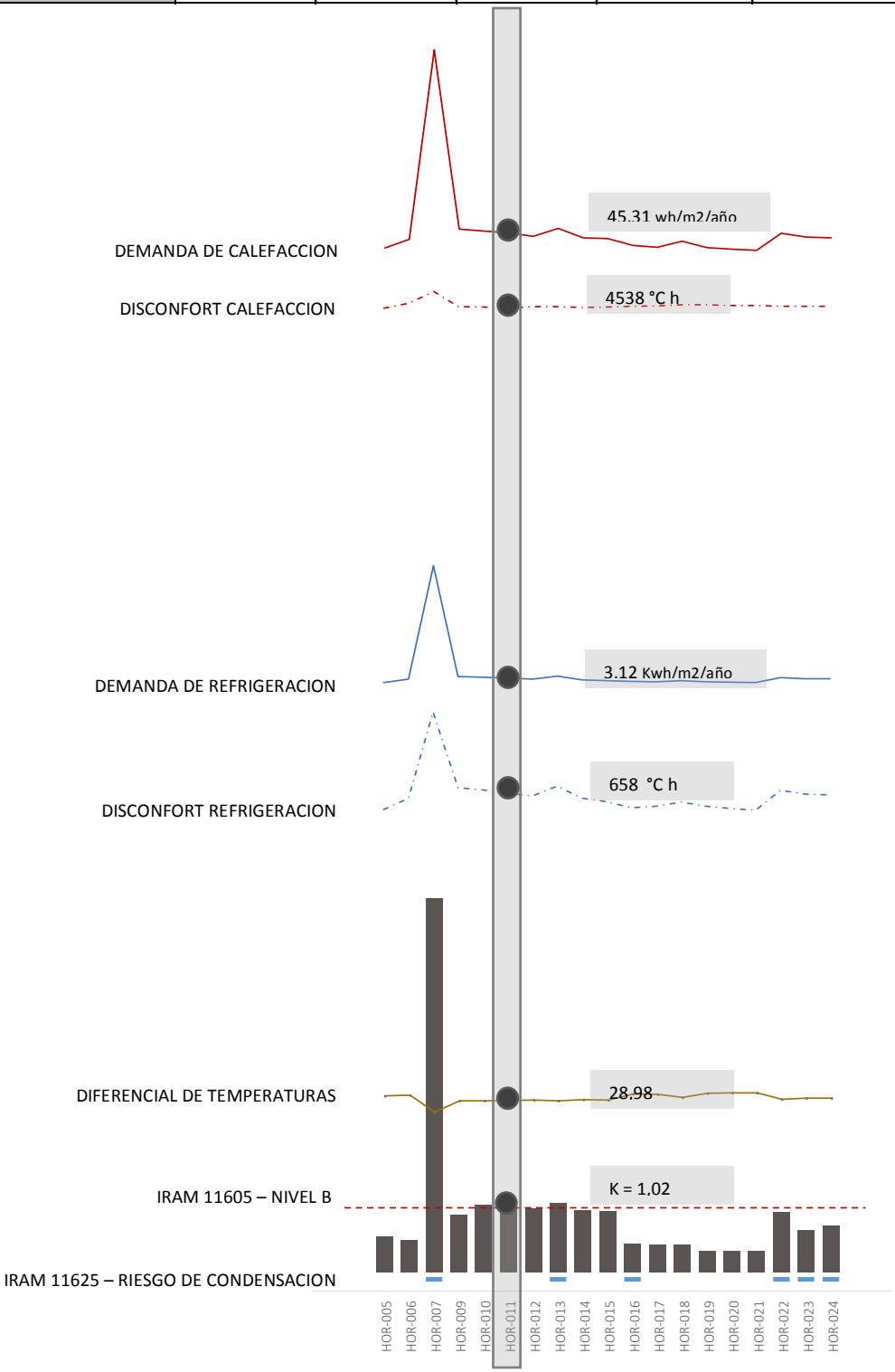



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **109,23** | kWh | 3,12 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.585,82** | kWh | 45,31 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.695,05** | kWh | **48,43** | kWh/m2/año |

| HOR-011 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 100 | N° 099 | N° 096 | N° 085 | N° 026 | N° 089 |



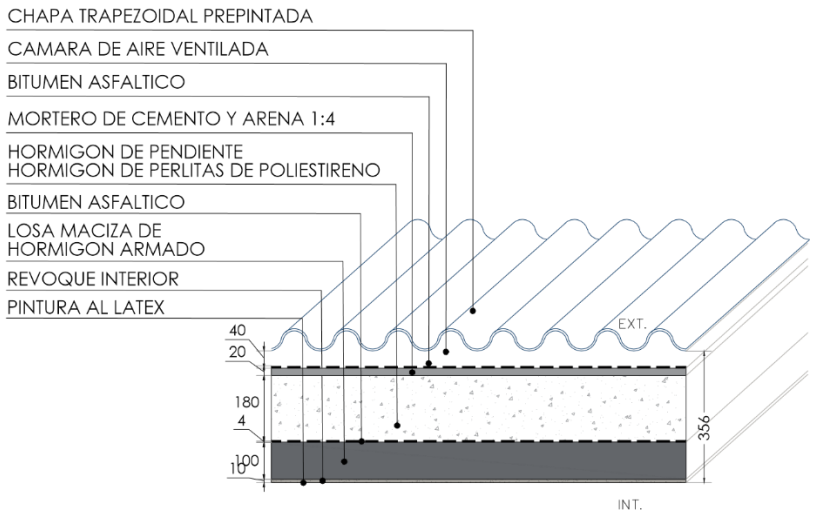

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 1,02 | 0% | 28,98 | 45,31 | 3,12 | 4538 | 658 |
| INC. FAMILIA | 105,44% | 0% | 98,73% | 97,62% | 67,90% | 104,19% | 103,00% |
| INC. MUNDIAL | 125,91% | 0% | 97,58% | 101,87% | 75,85% | 99,50% | 104,17% |

| HOR-012 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA DE 10 CM DE ESPESOR + CAMARA DE AIRE DE 4 CM Y TERMINACION DE CHAPA SINUSOIDAL.

## INDICE DE TRANSMITANCIA TERMICA "K"

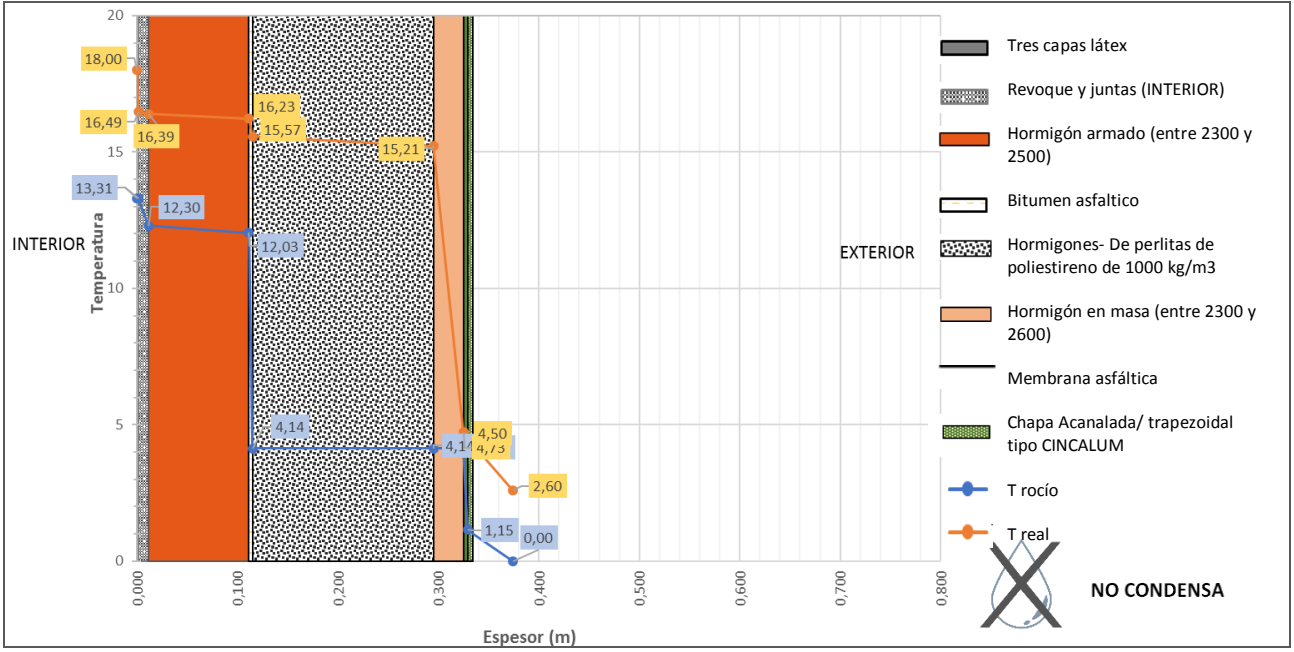
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,92 | 0,98 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



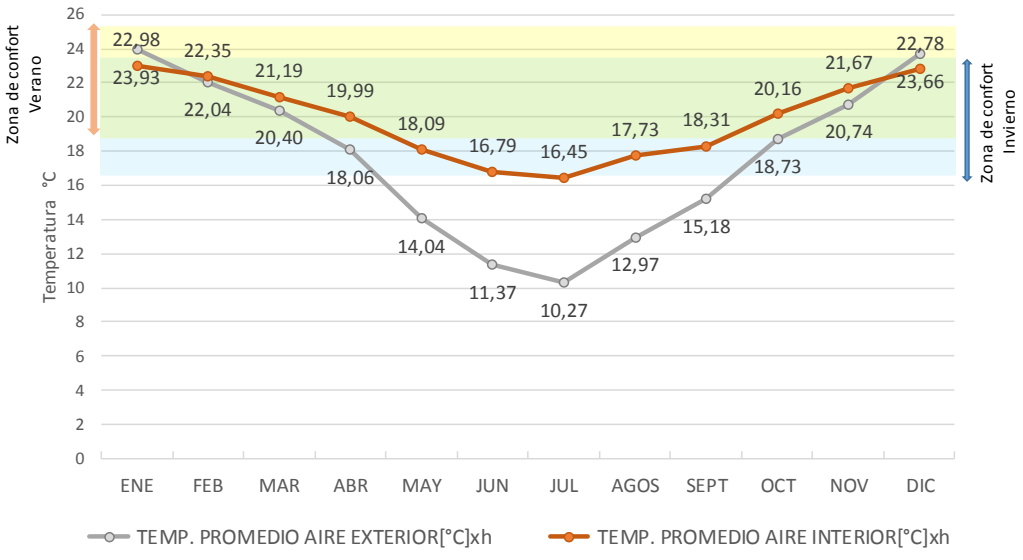

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 164,9 | 160,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **15,6** | **15,3** |
| | **Amortiguamiento:** | 0,003 | 0,003 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,2** | **12,1** |
| | **Amortiguamiento:** | 0,053 | 0,042 |

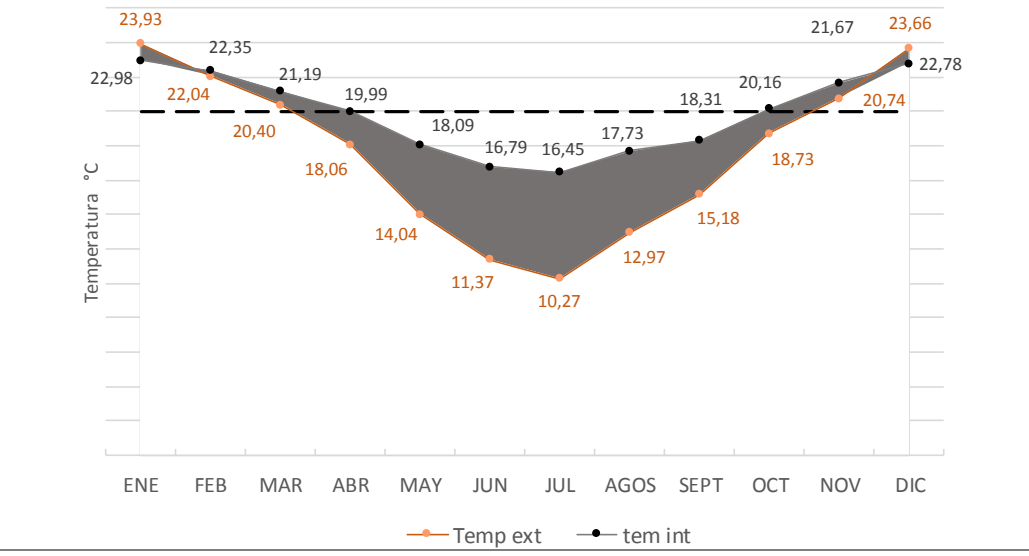
| HOR-012 | CU | HORMIGON |
|---|---|---|

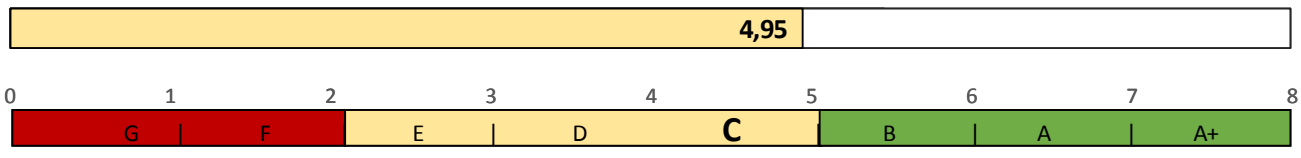
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,27** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,99** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



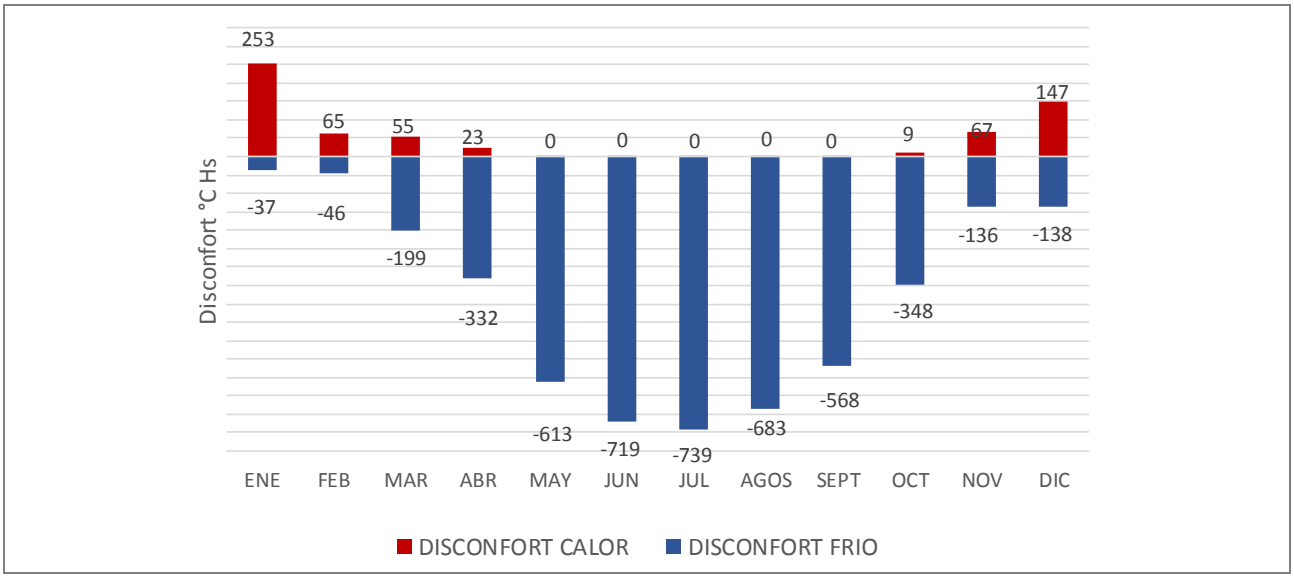




4,95 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| HOR-012 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

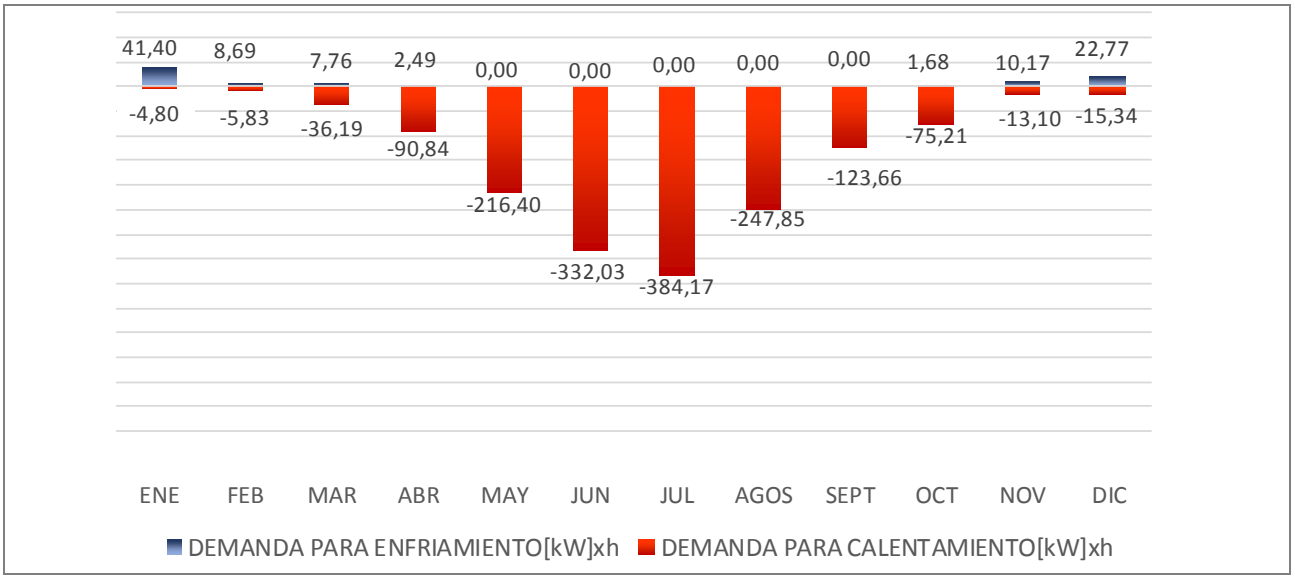
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **619** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.558** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.177** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

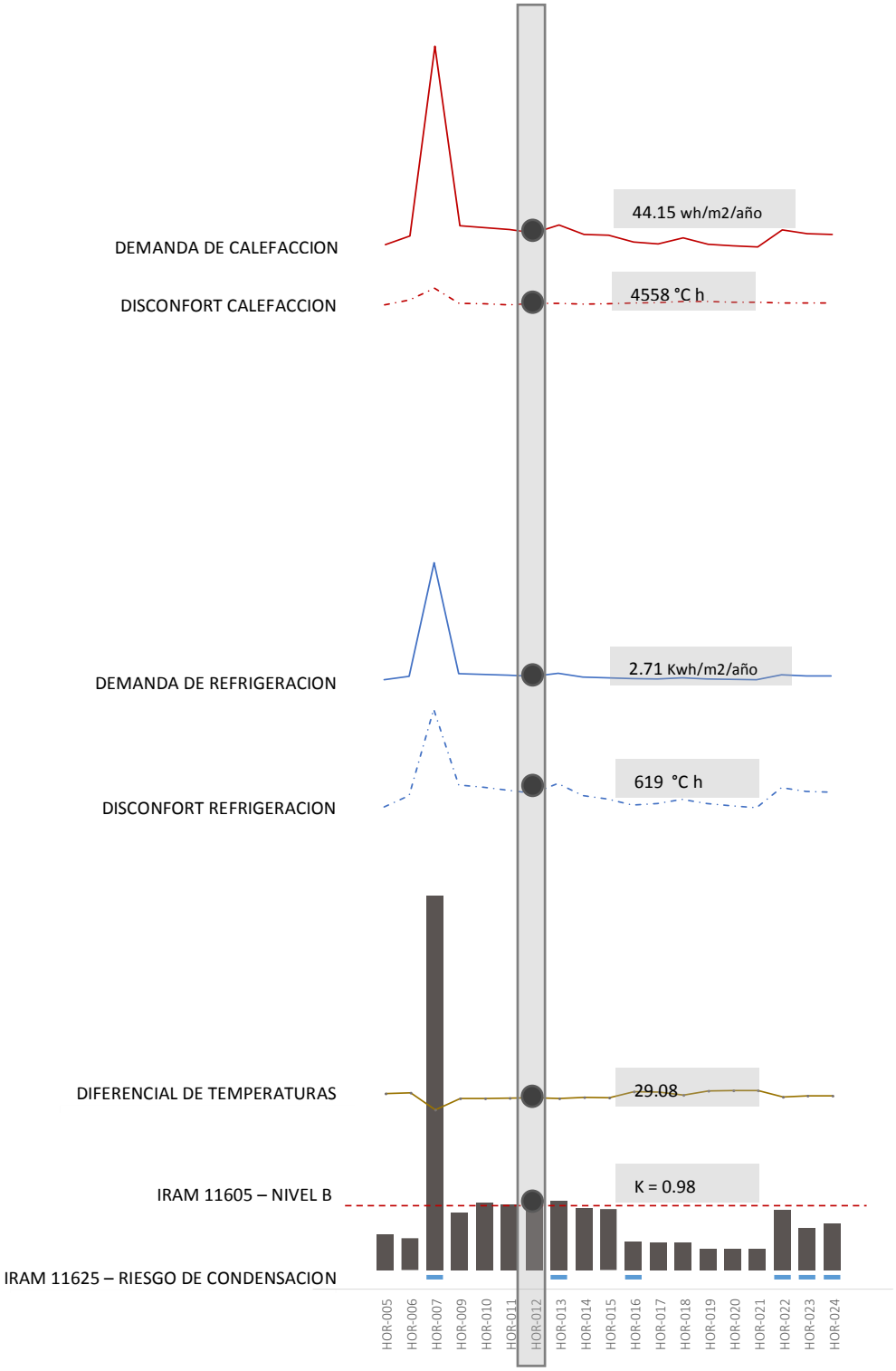



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **94,95** | kWh | 2,71 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.545,41** | kWh | 44,15 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.640,37** | kWh | **46,87** | kWh/m2/año |

| HOR-012 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 098 | N° 095 | N° 081 | N° 062 | N° 045 | N° 076 |



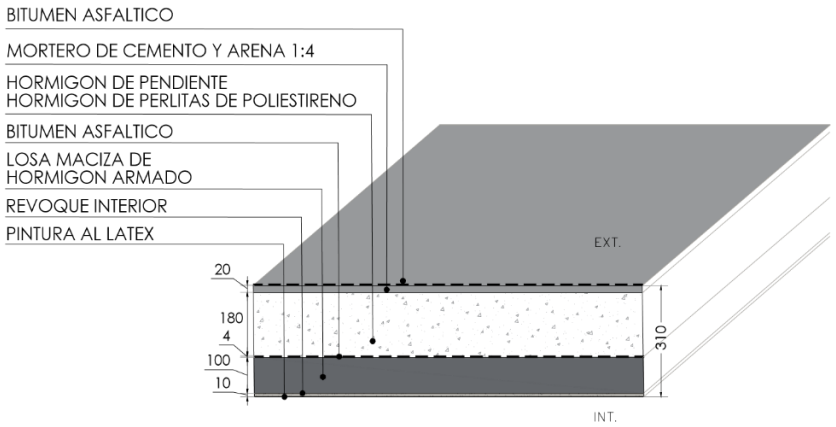

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,98 | 0% | 29,08 | 44,15 | 2,71 | 4558 | 619 |
| INC. FAMILIA | 101,65% | 0% | 99,07% | 95,12% | 58,98% | 104,65% | 96,89% |
| INC. MUNDIAL | 121,38% | 0% | 97,91% | 99,26% | 65,88% | 99,94% | 98,00% |

| HOR-013 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 10 CM DE ESPESOR CON TERMINACION DE MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

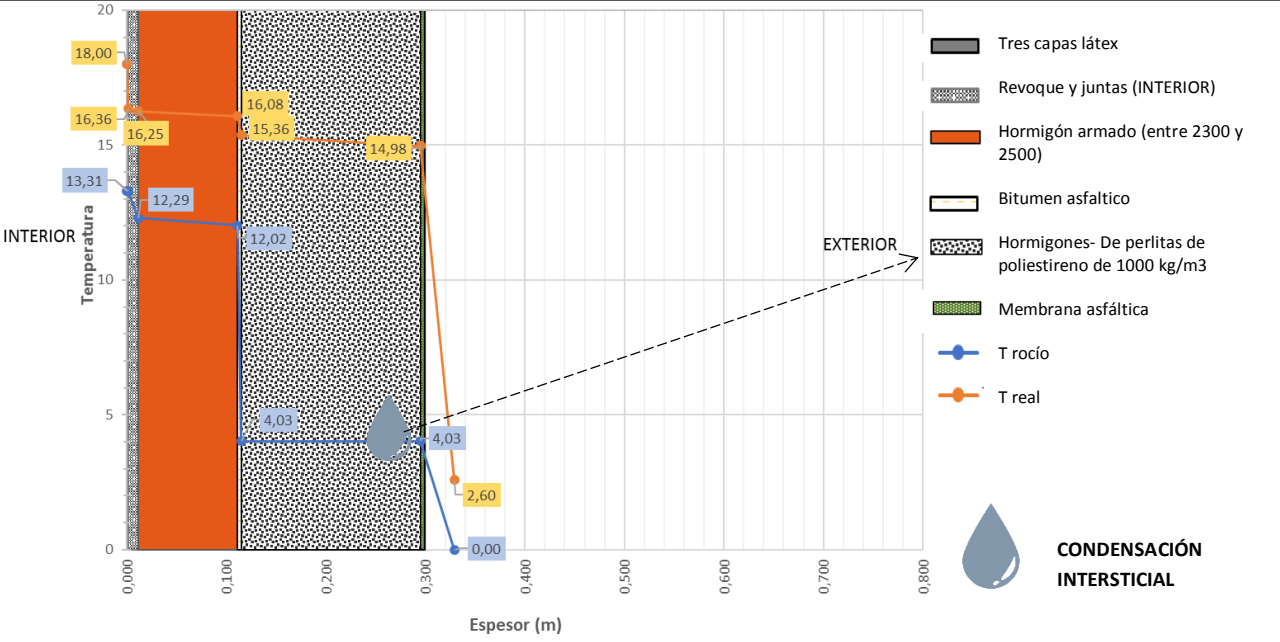
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,99 | 1,07 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



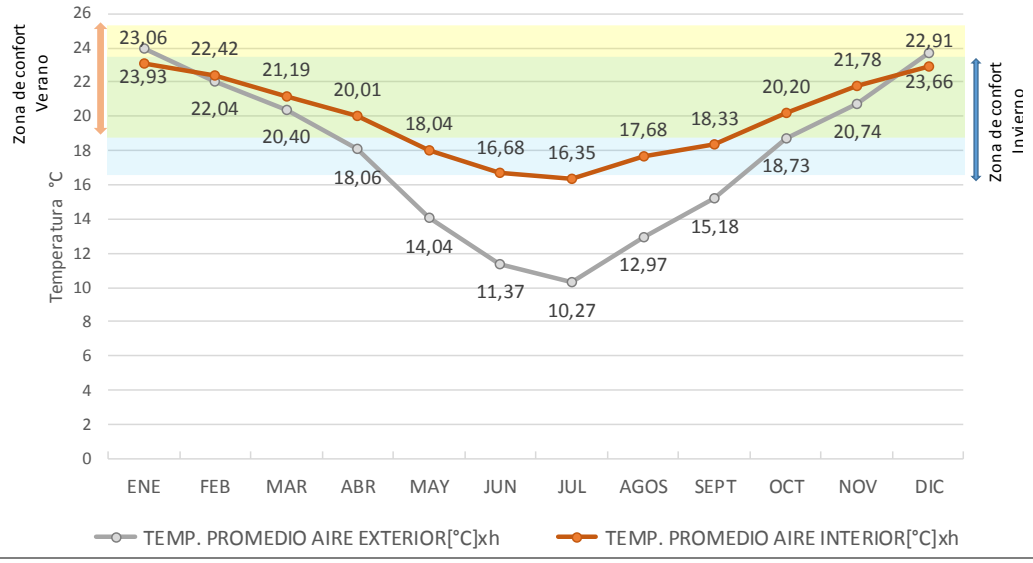

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 176,2 | 176,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,6** | **14,6** |
| | **Amortiguamiento:** | 0,004 | 0,004 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,9** | **11,3** |
| | **Amortiguamiento:** | 0,058 | 0,052 |

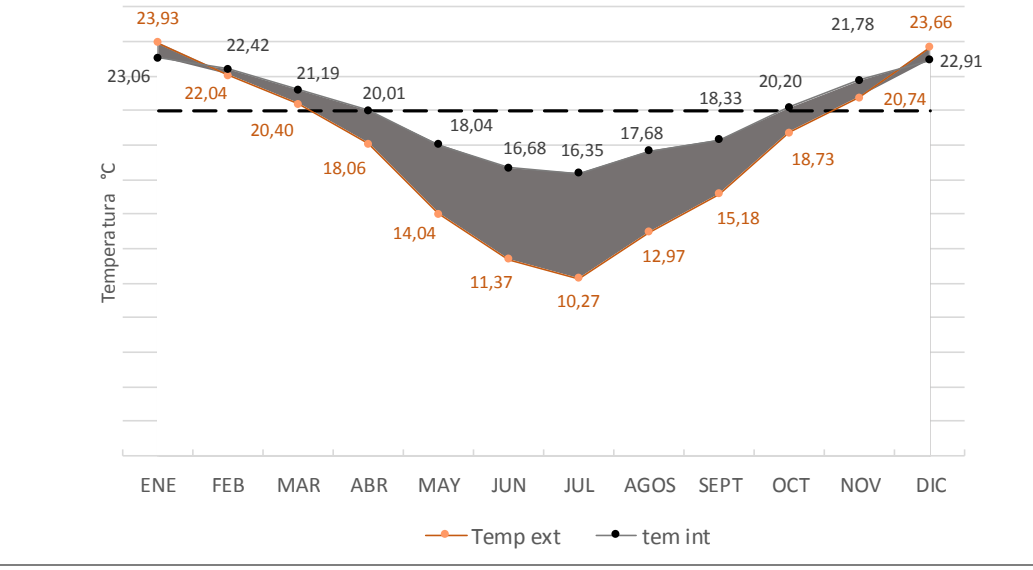
| HOR-013 | CU | HORMIGON |
|---|---|---|

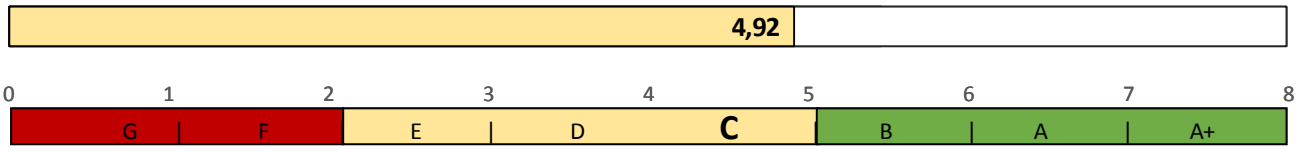
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,62** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,74** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



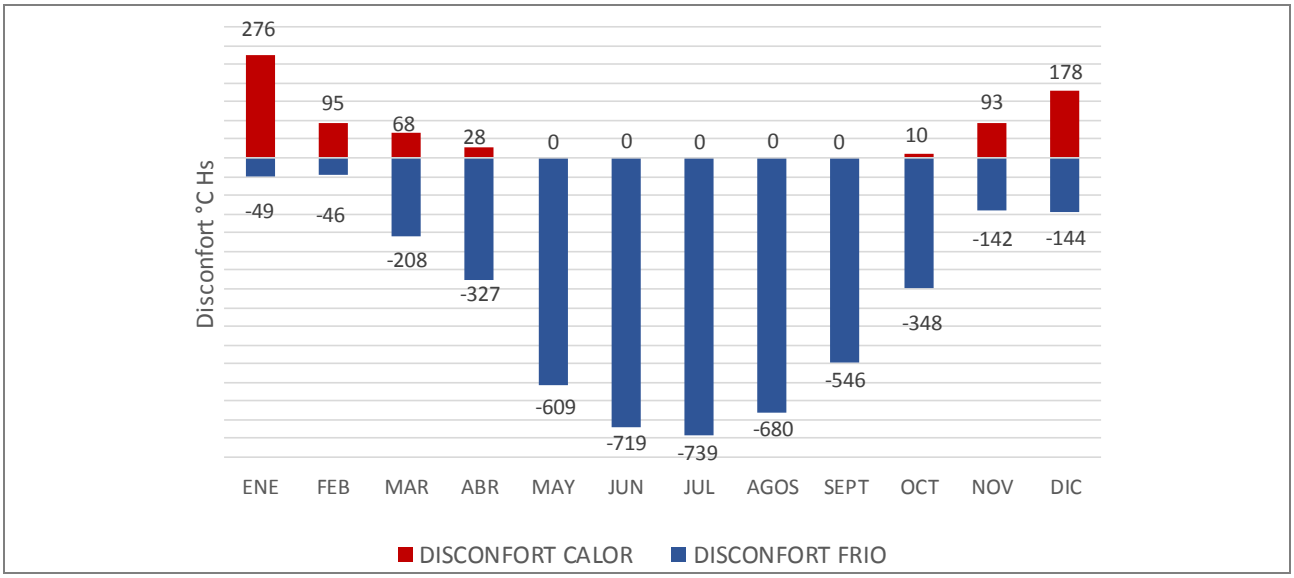




4,92 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| HOR-013 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

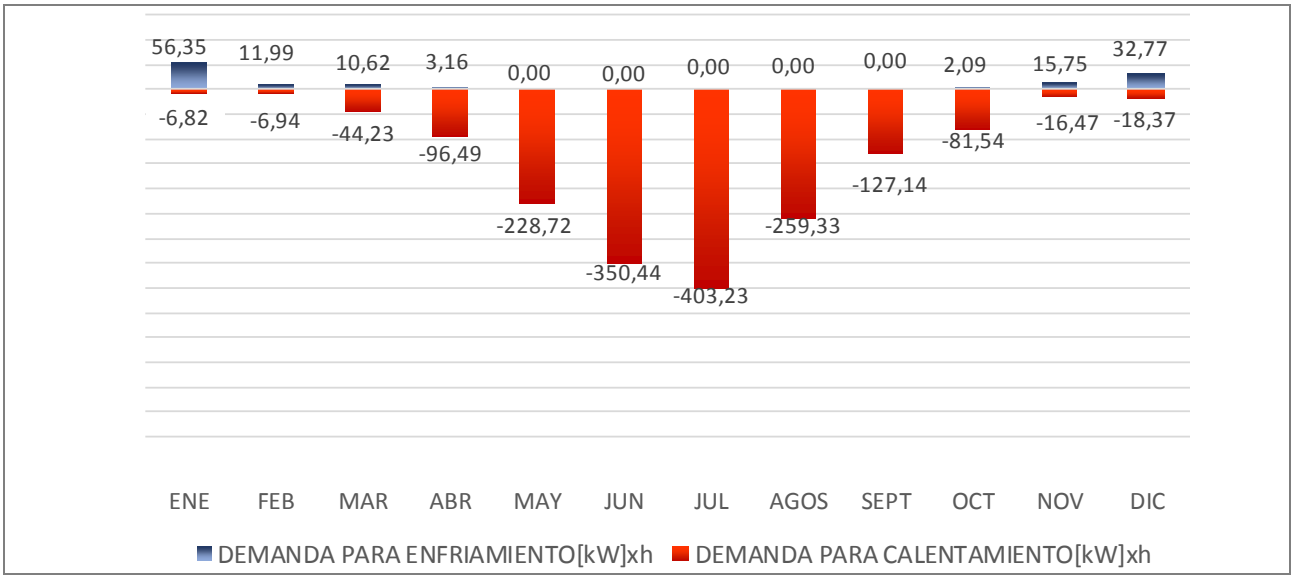
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **747** | °C Hs | 9% |
| HORAS DE DISCONFORT POR FRÍO | **4.558** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.305** | **°C Hs** | **61%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

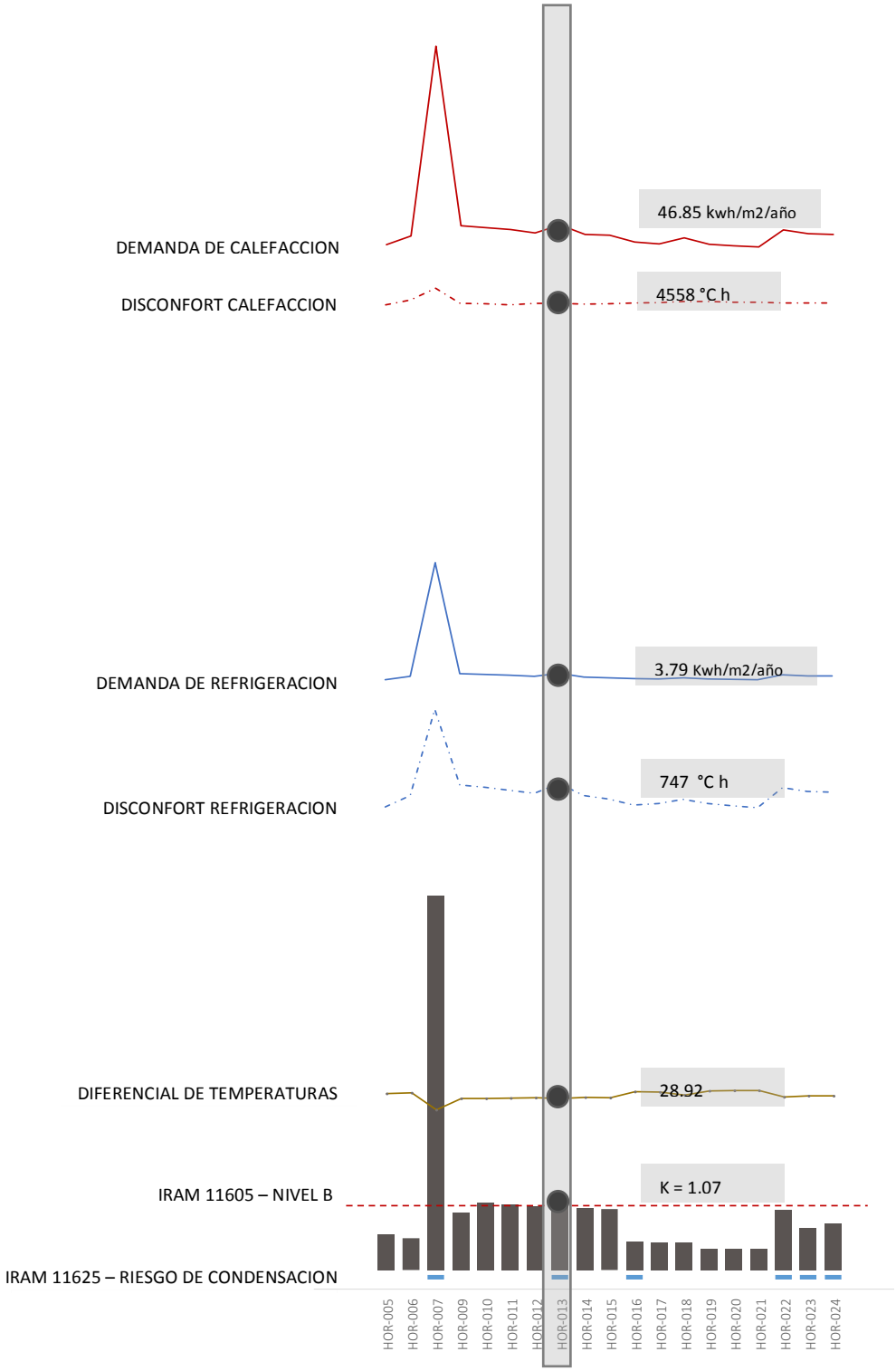



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **132,73** | kWh | 3,79 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.369,73** | kWh | 46,85 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.772,47** | kWh | **50,64** | kWh/m2/año |

| HOR-013 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 103 | N° 104 | N° 103 | N° 102 | N° 046 | N° 102 |



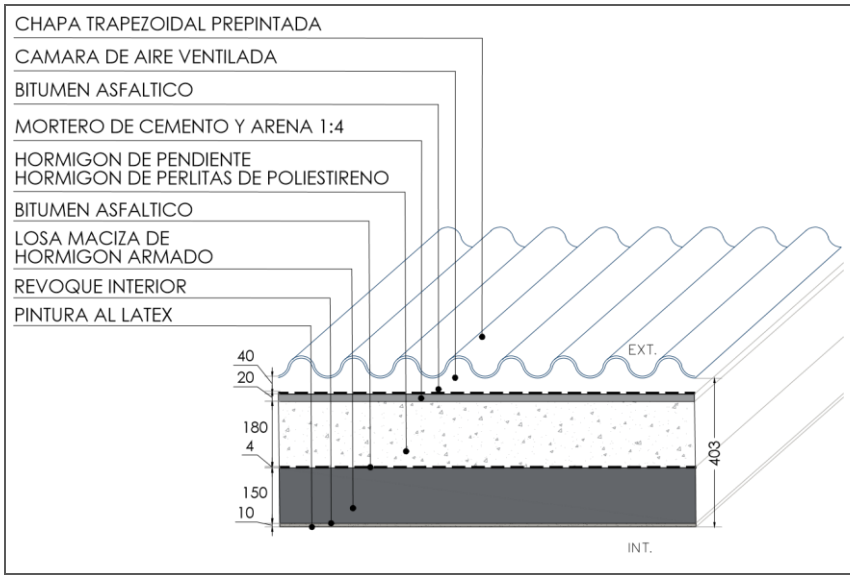

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 1,07 | 100% | 28,92 | 46,85 | 3,79 | 4558 | 747 |
| INC. FAMILIA | 110,34% | 0% | 98,53% | 100,94% | 82,49% | 104,65% | 116,93% |
| INC. MUNDIAL | 131,75% | 0% | 97,38% | 105,33% | 92,14% | 99,94% | 118,26% |

| HOR-014 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 15 CM DE ESPESOR + CAMARA DE AIRE DE 4 CM Y TERMINACION DE CHAPA SINUSOIDAL.

## INDICE DE TRANSMITANCIA TERMICA "K"

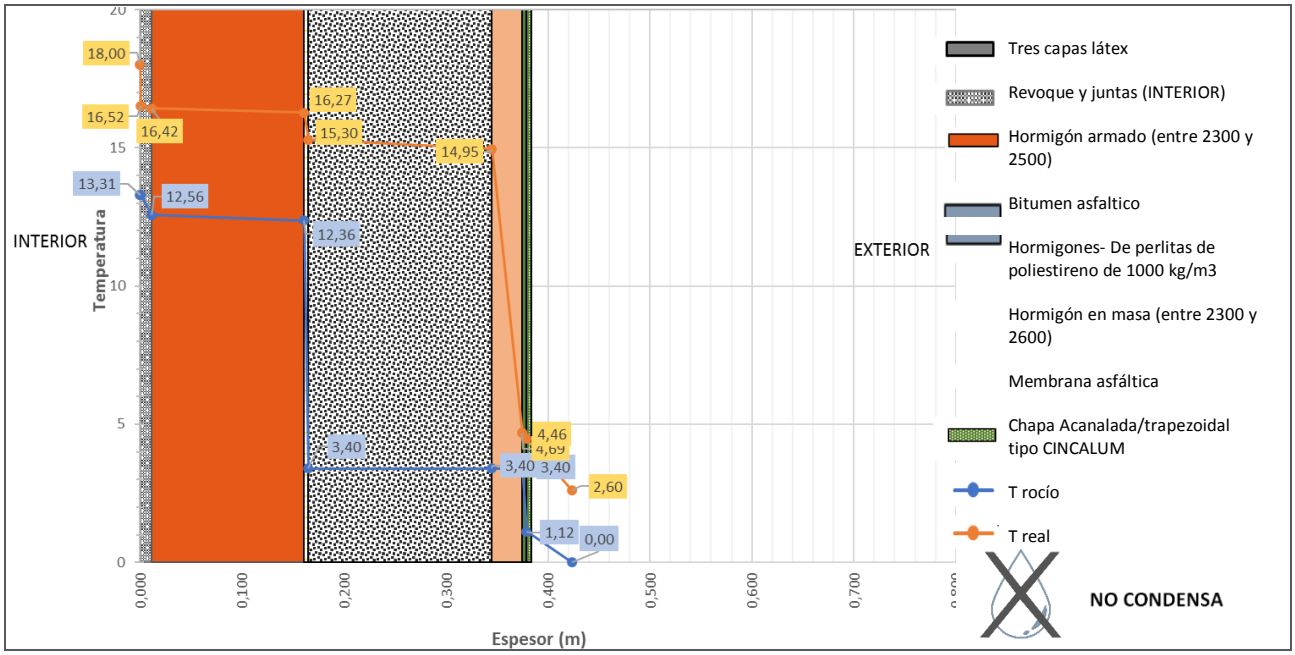
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,90 | 0,96 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



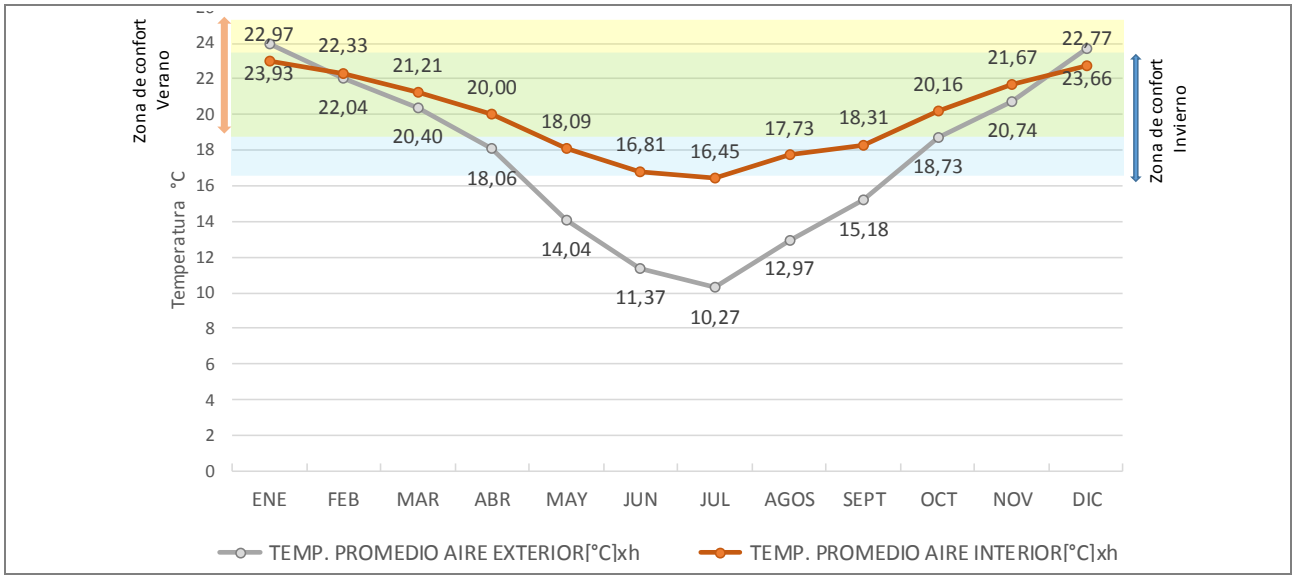

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 192,7 | 188,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **17,2** | **17,0** |
| | **Amortiguamiento:** | 0,002 | 0,002 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,9** | **13,9** |
| | **Amortiguamiento:** | 0,045 | 0,026 |

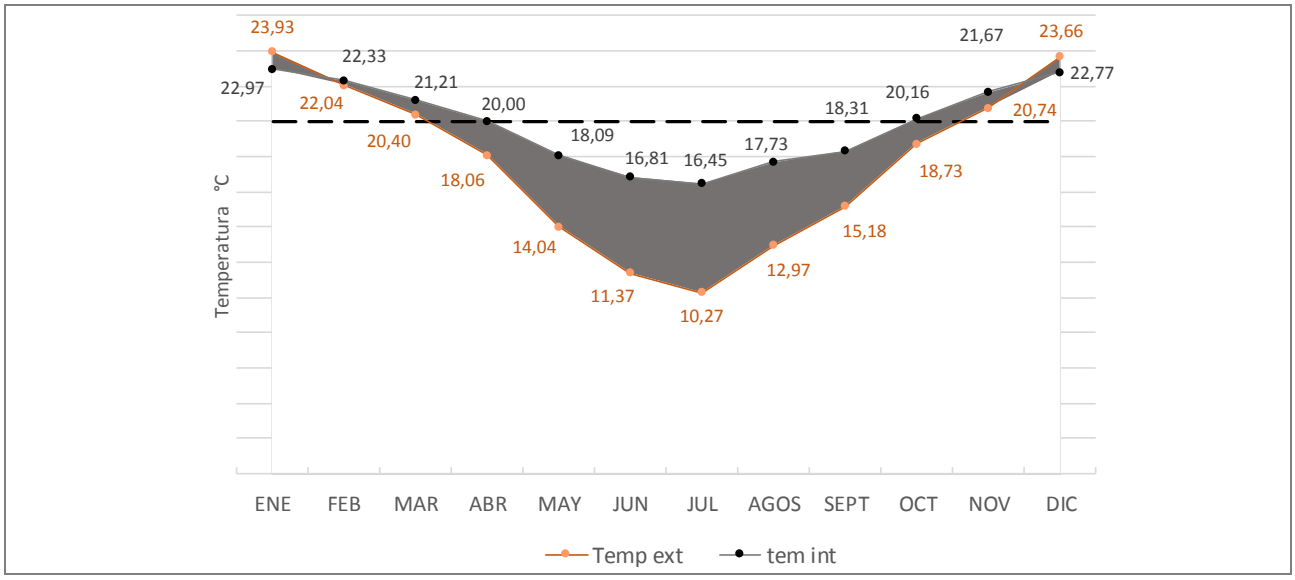
| HOR-014 | CU | HORMIGON |
|---|---|---|

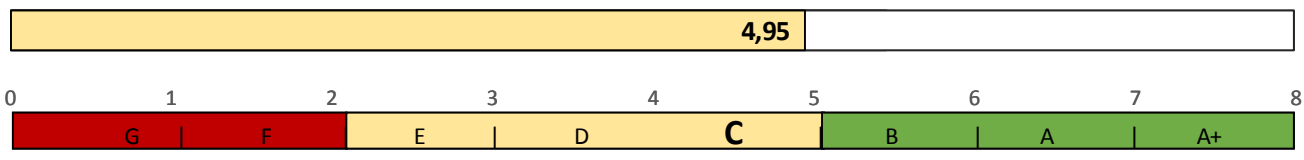
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,15** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,07** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



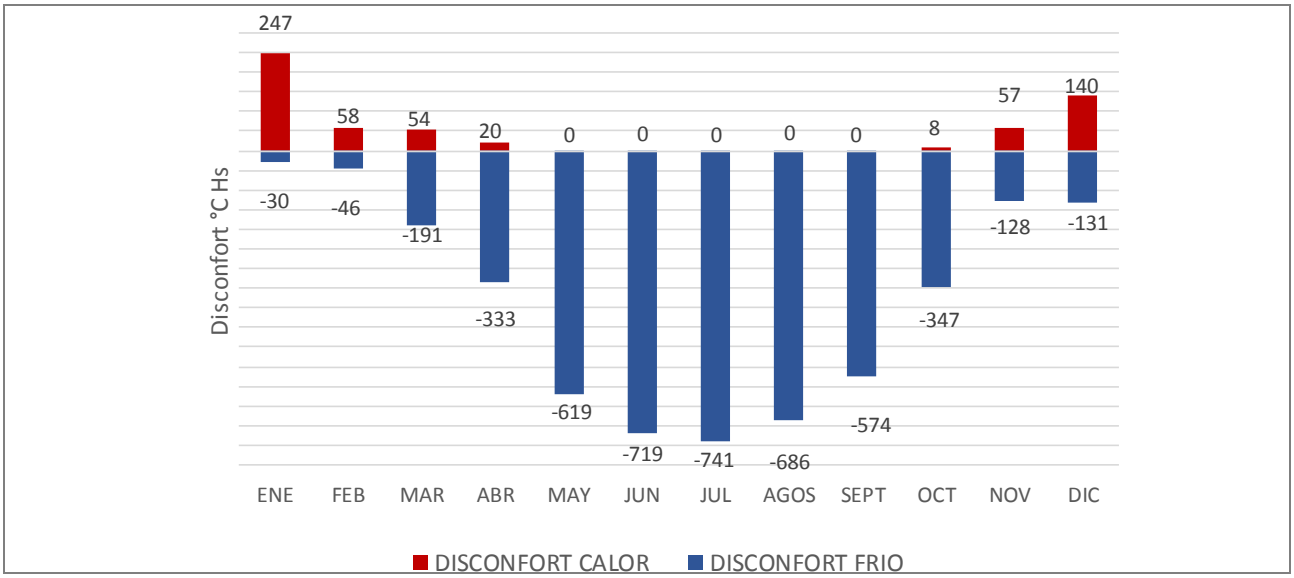




4,95 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| HOR-014 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

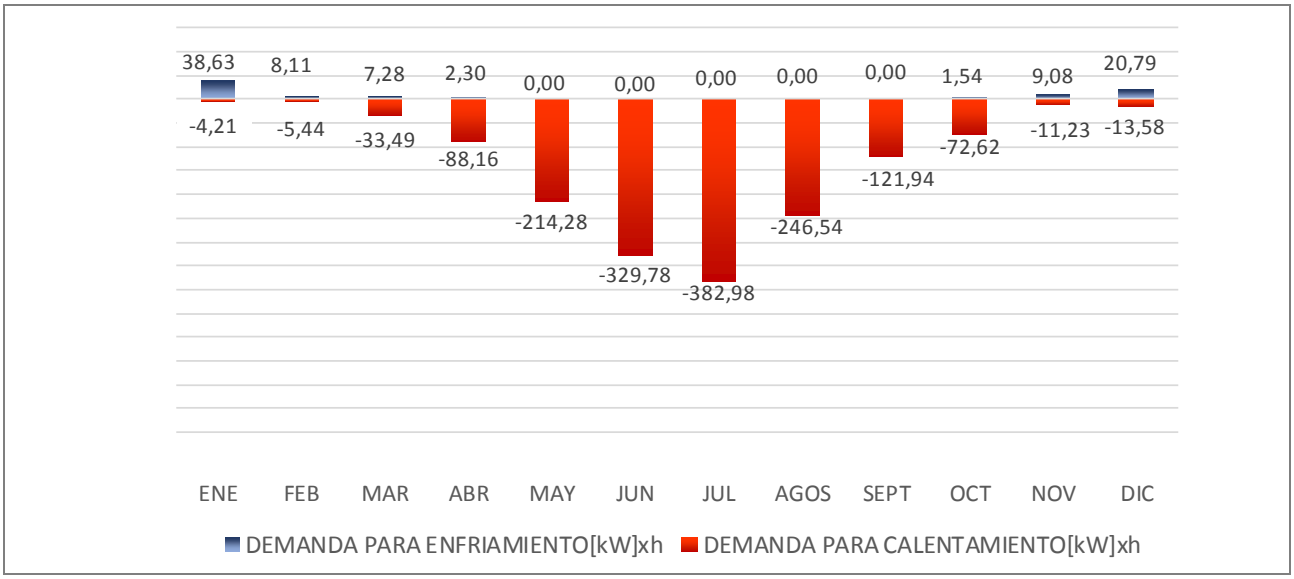
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **584** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.545** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.128** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

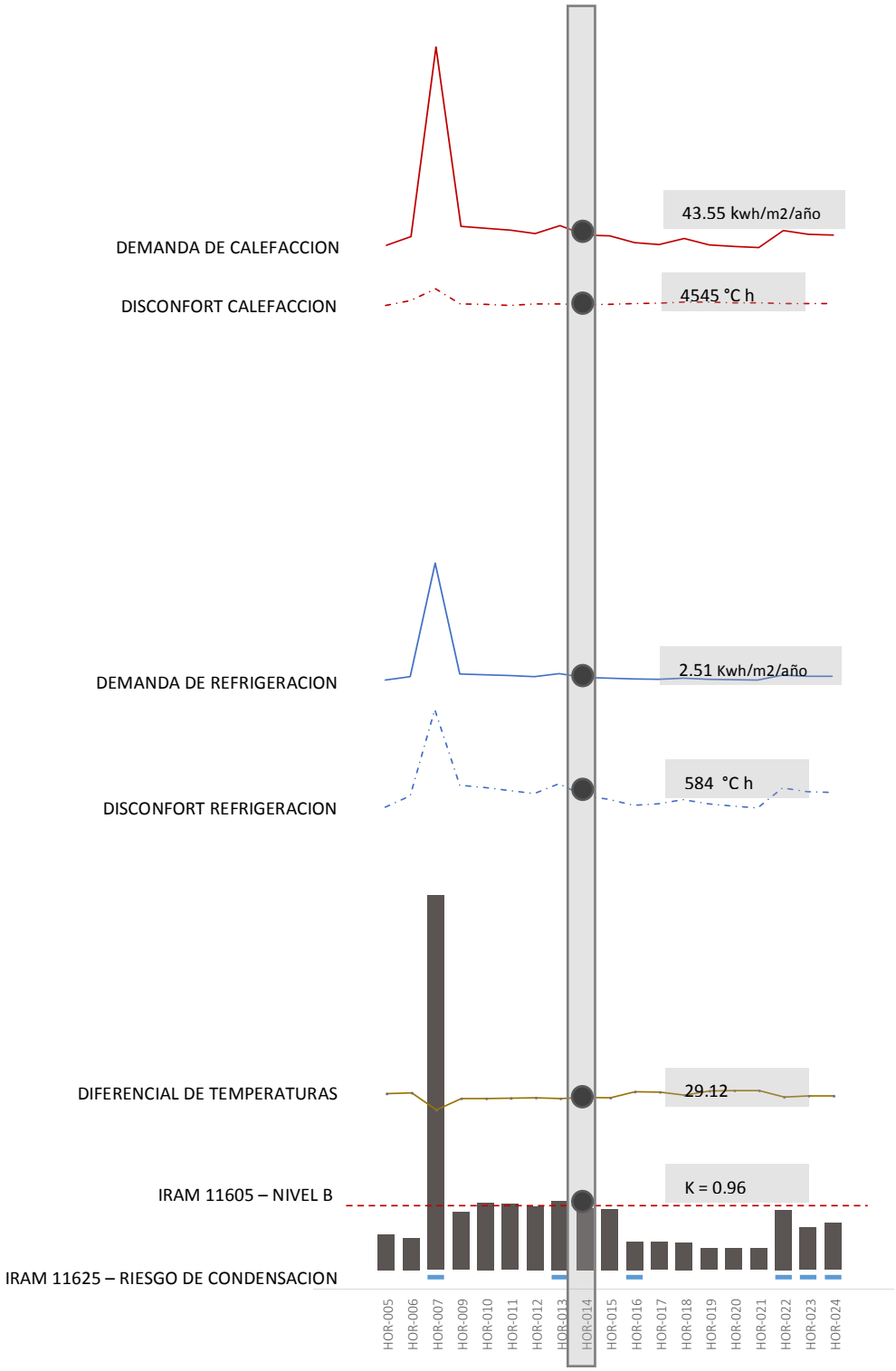



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **87,73** | kWh | 2,51 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.524,27** | kWh | 43,55 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.612,0** | kWh | **46,06** | kWh/m2/año |

| HOR-014 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 095 | N° 094 | N° 074 | N° 054 | N° 032 | N° 062 |



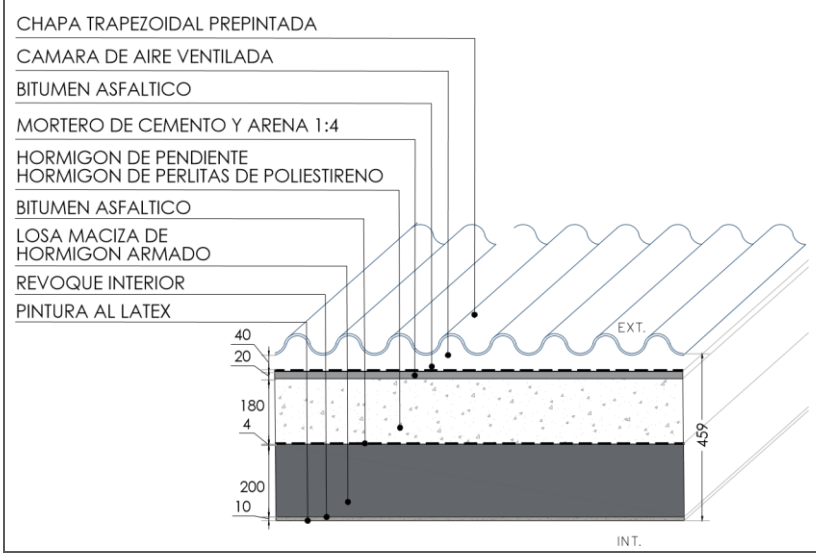

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,96 | 0% | 29,12 | 43,55 | 2,51 | 4545 | 584 |
| INC. FAMILIA | 99,52% | 0% | 99,21% | 93,83% | 54,63% | 104,35% | 91,42% |
| INC. MUNDIAL | 118,84% | 0% | 98,05% | 97,91% | 61,02% | 99,65% | 92,45% |

| HOR-015 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 20 CM DE ESPESOR + CAMARA DE AIRE DE 4 CM Y TERMINACION DE CHAPA SINUSOIDAL.

## INDICE DE TRANSMITANCIA TERMICA "K"

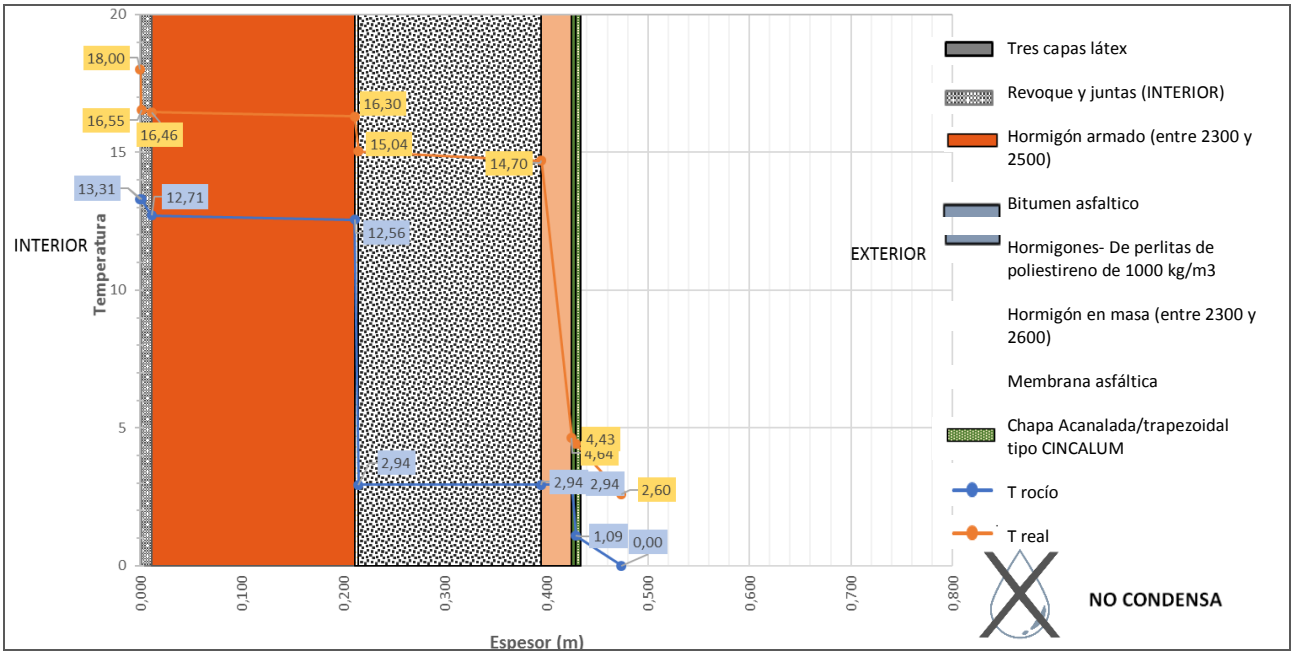
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,88 | 0,94 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



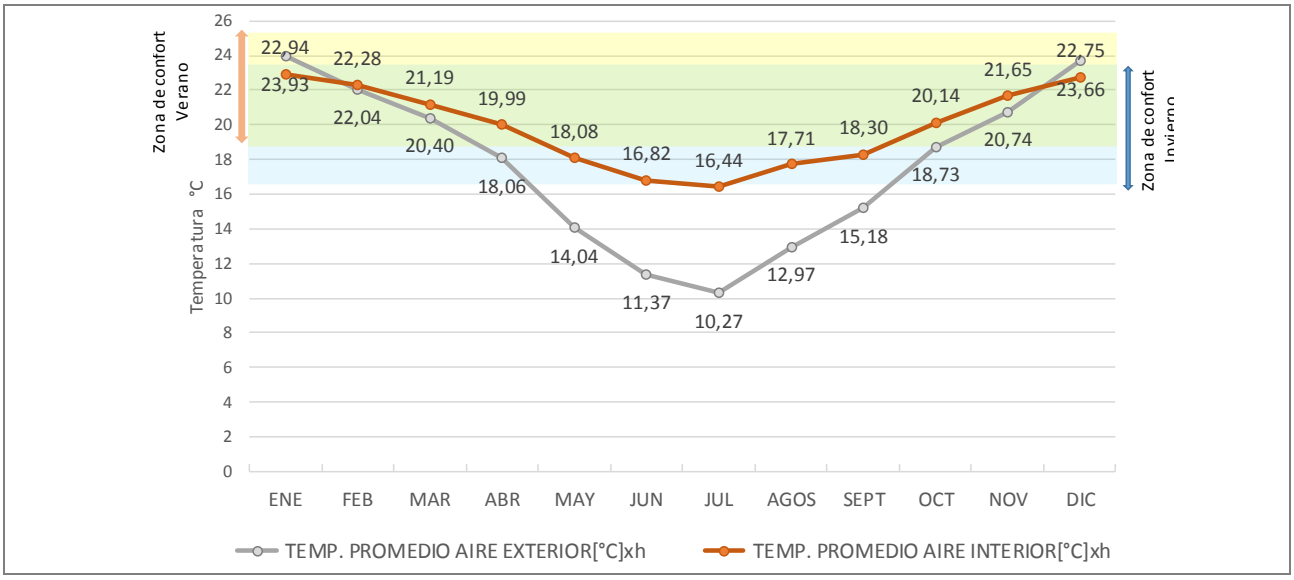

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 219,2 | 214,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **18,8** | **18,6** |
| | **Amortiguamiento:** | 0,001 | 0,001 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,5** | **15,5** |
| | **Amortiguamiento:** | 0,038 | 0,017 |

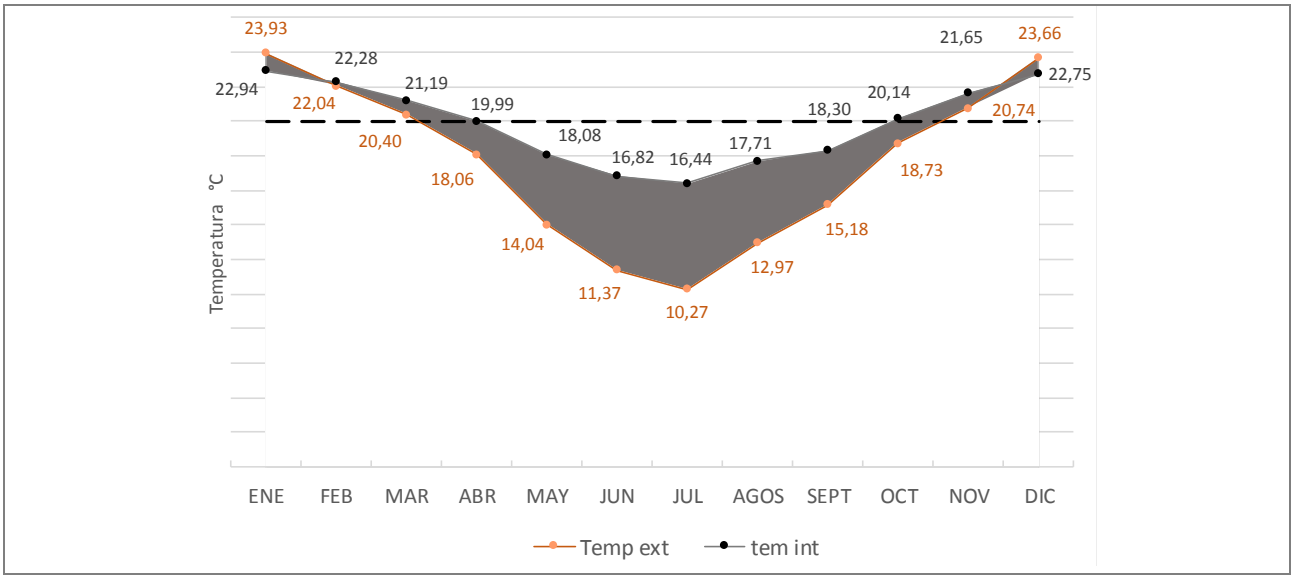
| HOR-015 | CU | HORMIGON |
|---|---|---|

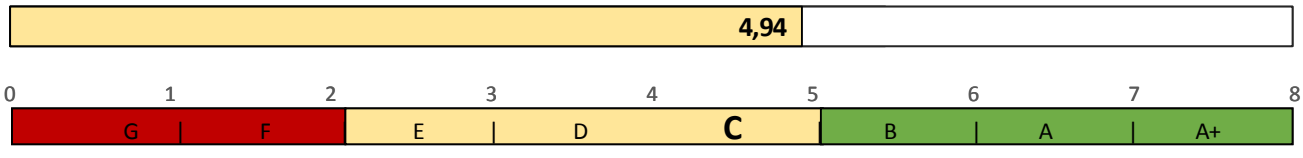
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,04** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,14** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



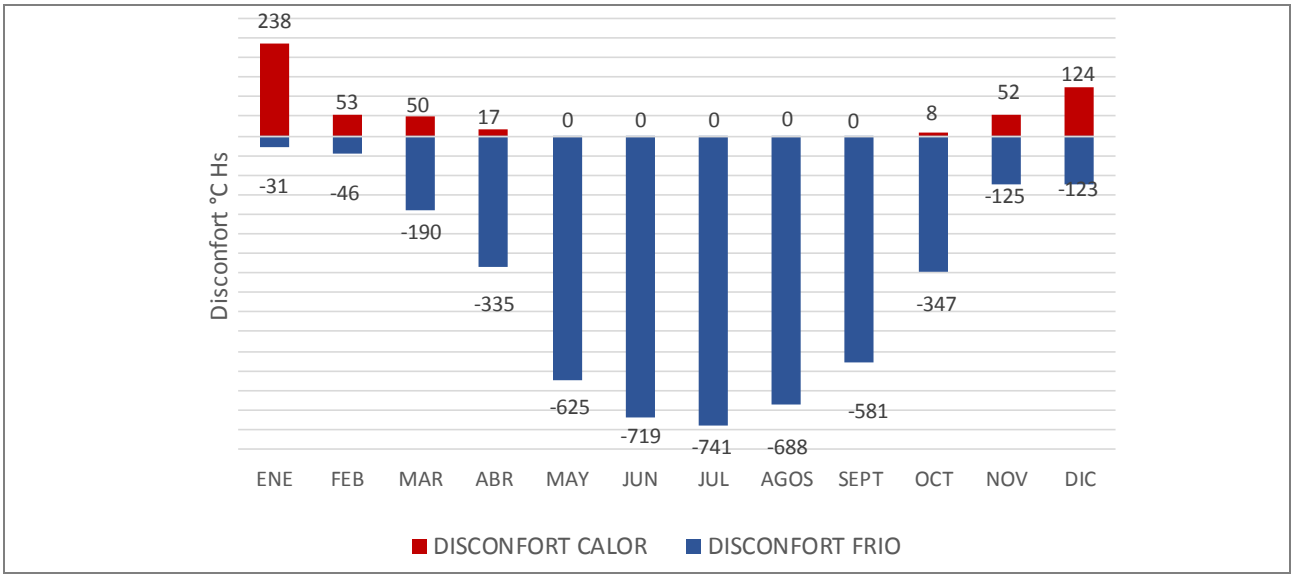




4,94 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| HOR-015 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

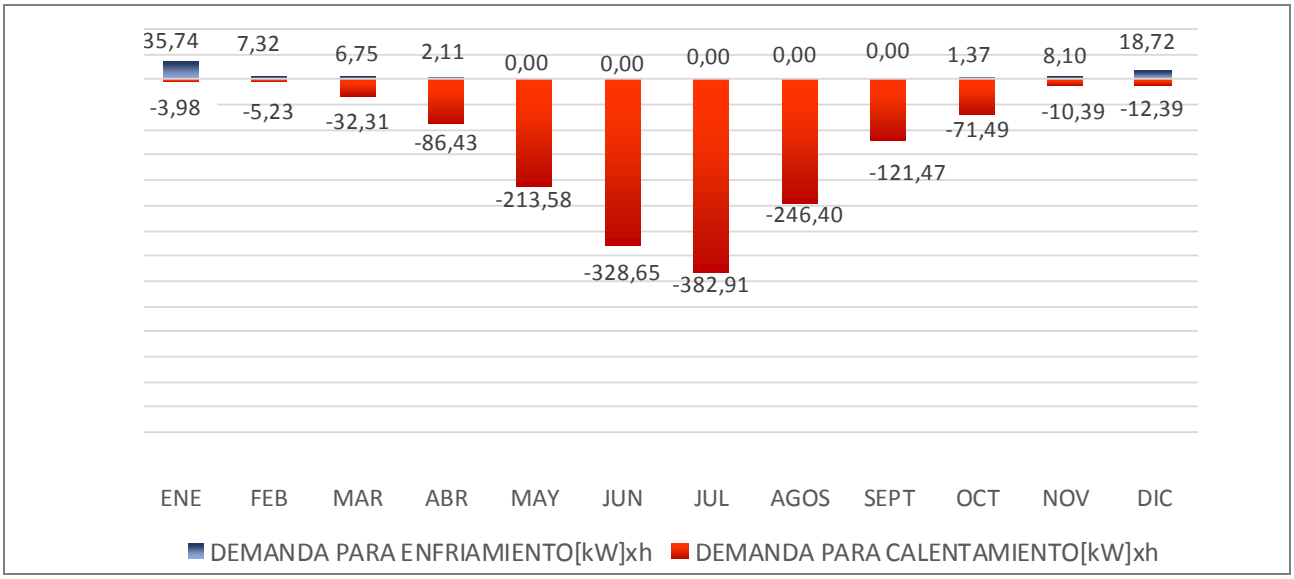
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **541** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.551** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.091** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

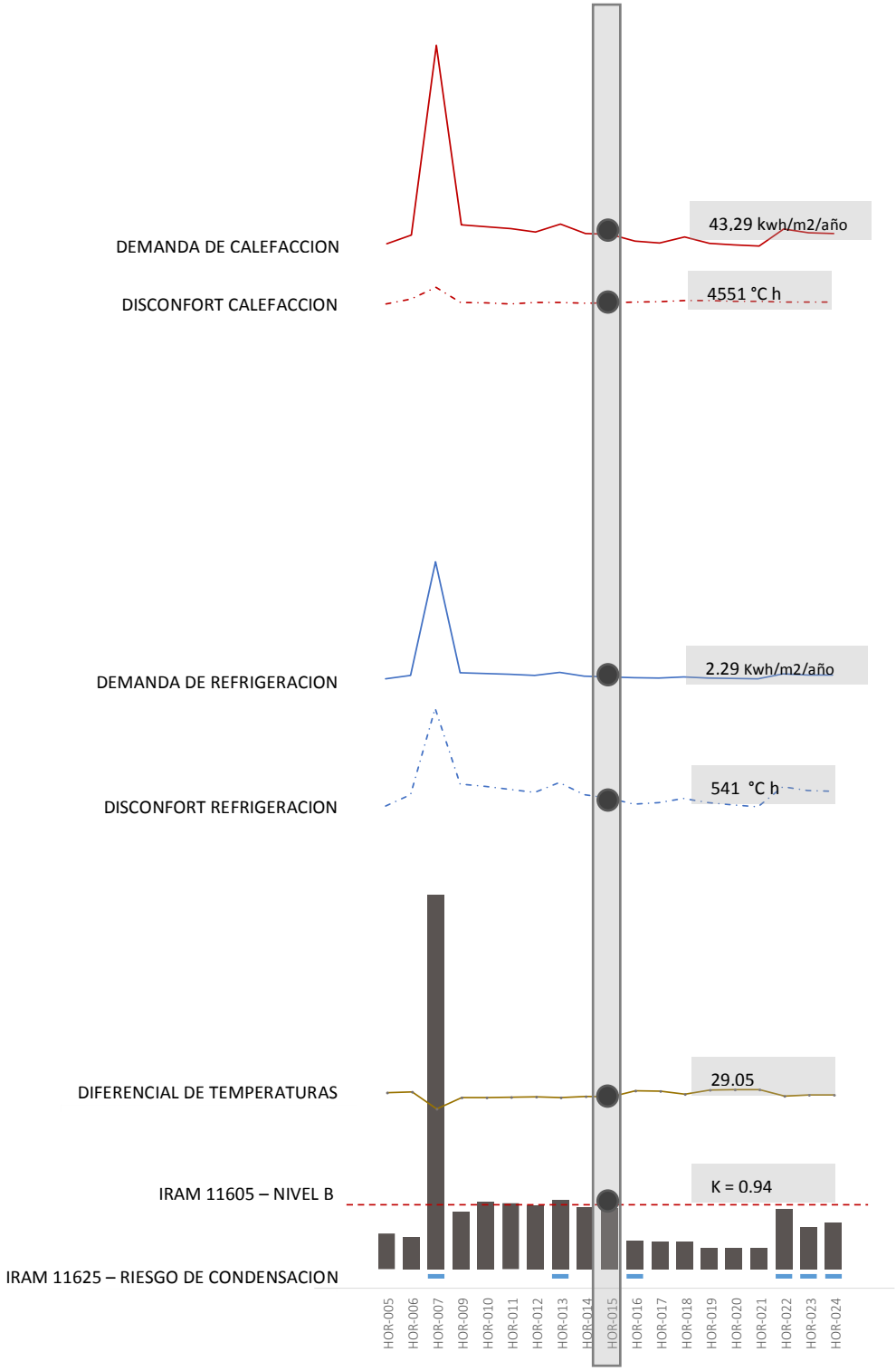



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **80,10** | kWh | 2,29 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.515,22** | kWh | 43,29 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.595,32** | kWh | **45,58** | kWh/m2/año |

| HOR-015 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 094 | N° 096 | N° 072 | N° 051 | N° 001 | N° 048 |



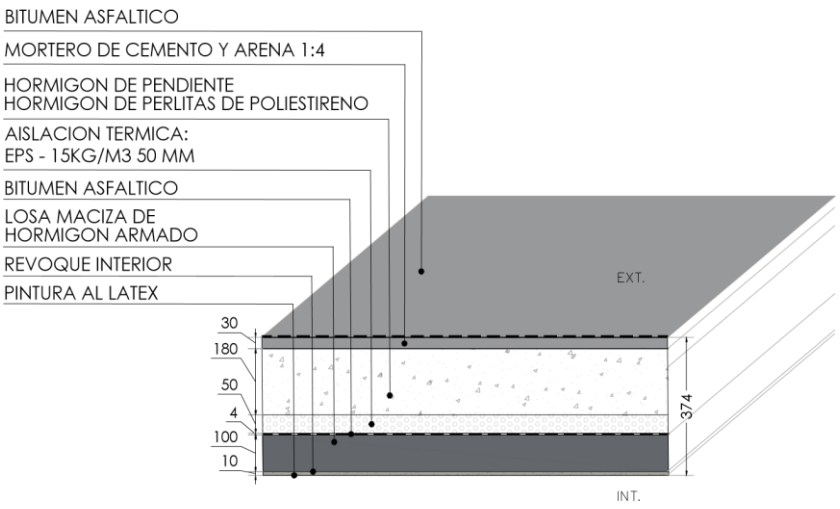

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,94 | 0% | 29,05 | 43,29 | 2,29 | 4551 | 541 |
| INC. FAMILIA | 97,48% | 0% | 98,97% | 93,27% | 49,84% | 104,49% | 84,68% |
| INC. MUNDIAL | 116,41% | 0% | 97,81% | 97,33% | 55,67% | 99,78% | 85,65% |

| HOR-016 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 10 CM DE ESPESOR CON AISLACION DE PLANCHA DE EPS (15) 5 CM Y TERMINACION DE MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

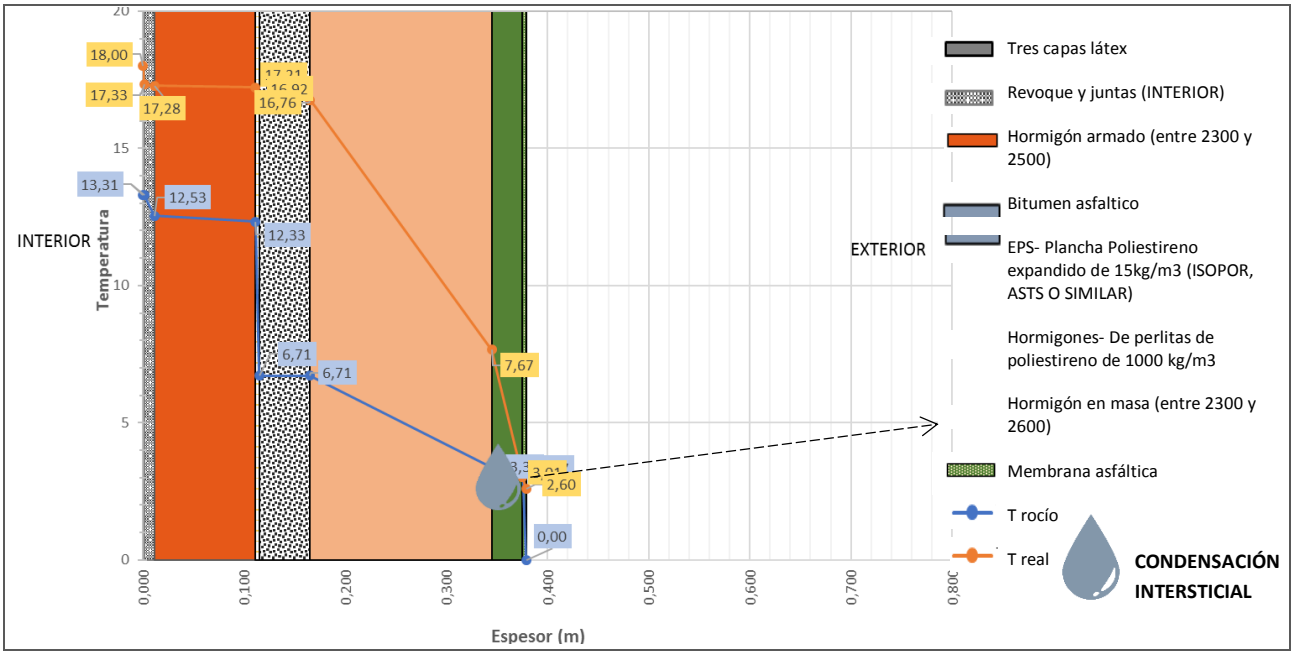
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,42 | 0,44 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



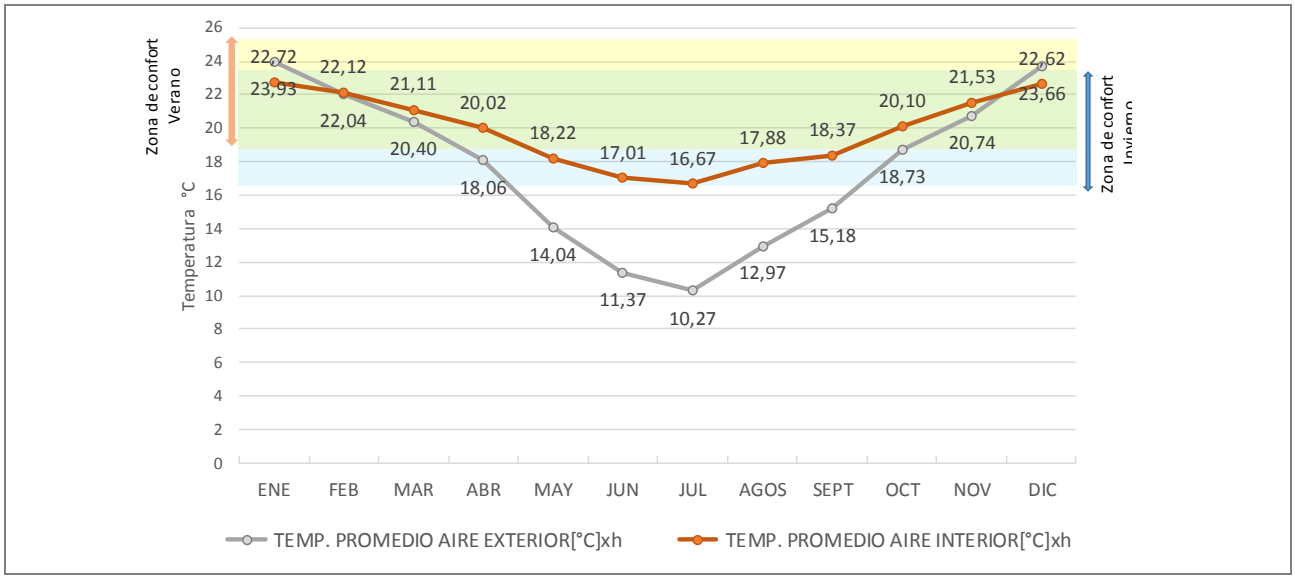

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 65,4 | 65,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **24,0** | **24,0** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **17,3** | **16,6** |
| | **Amortiguamiento:** | 0,011 | 0,013 |

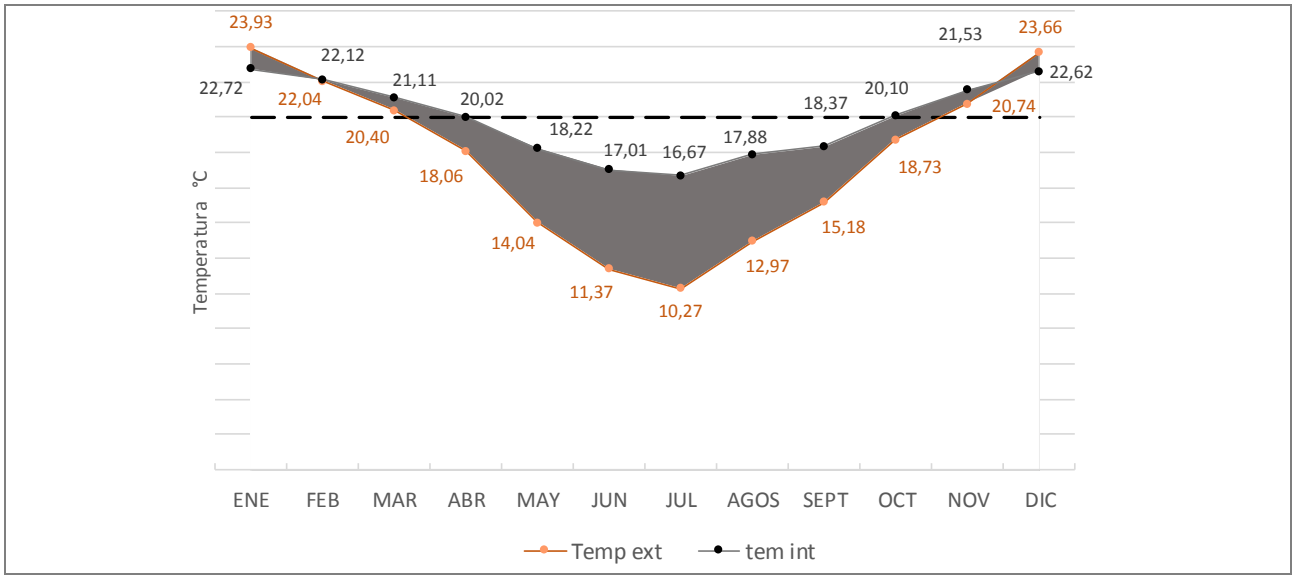
| HOR-016 | CU | HORMIGON |
|---|---|---|

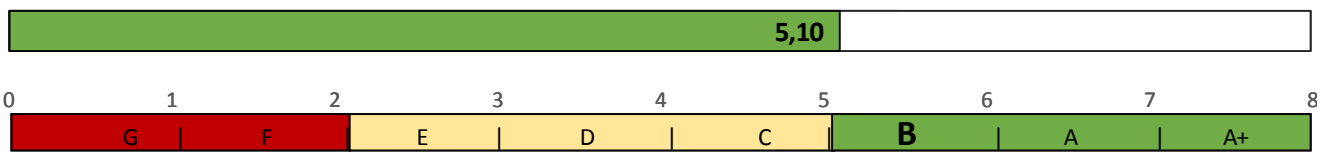
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,76** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,40** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



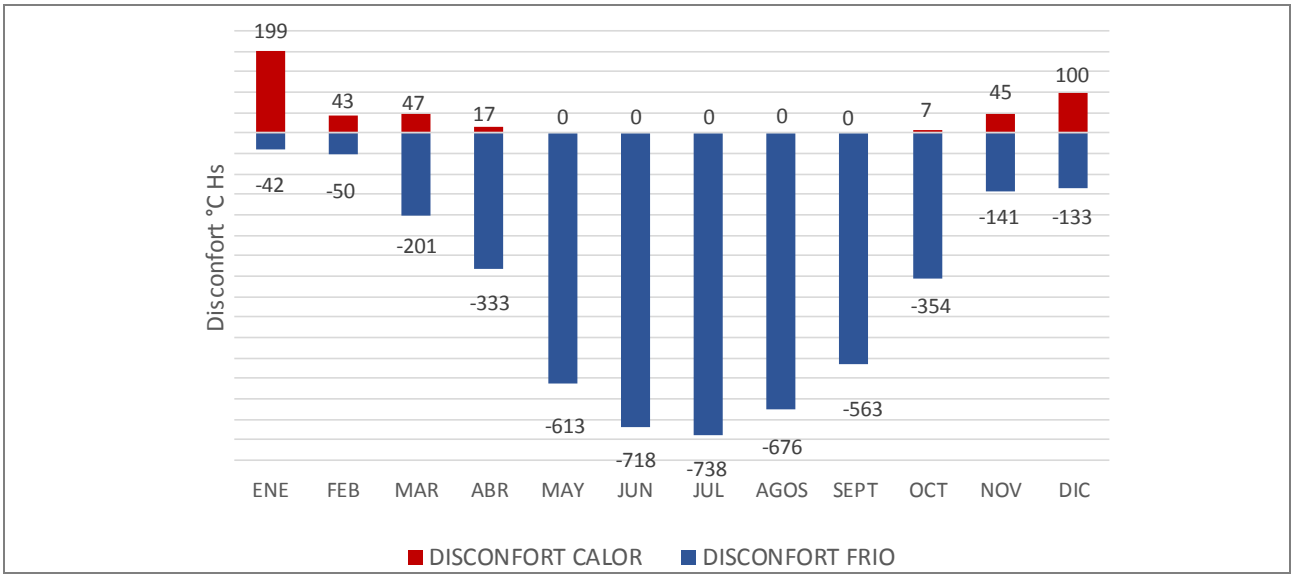




5,10 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| HOR-016 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

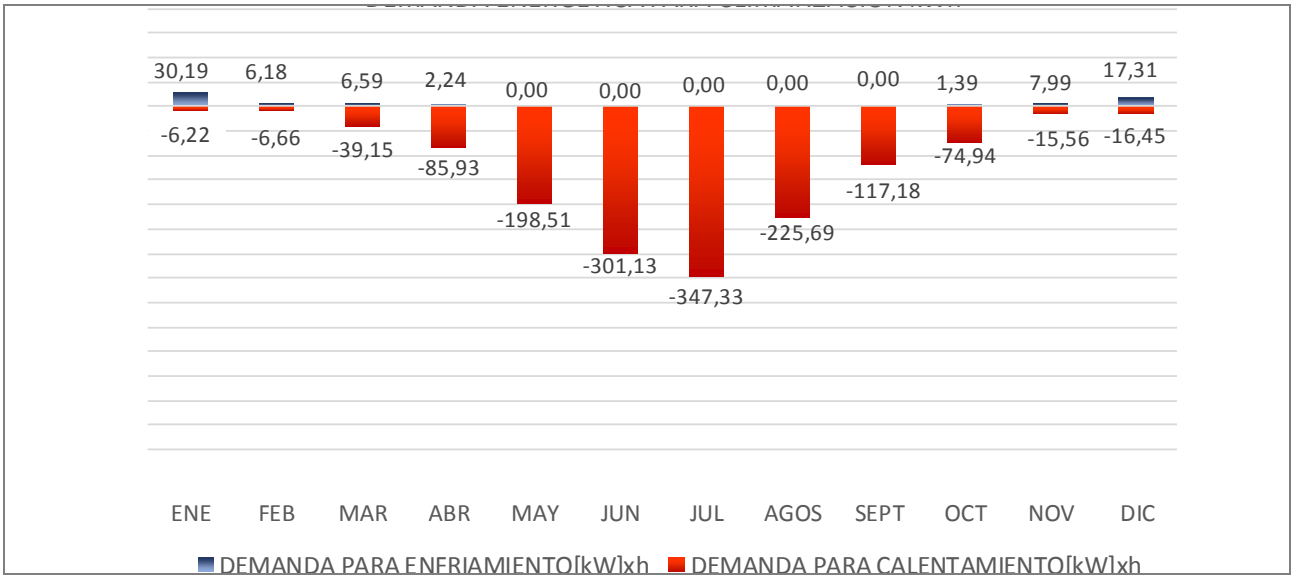
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **458** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.562** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.020** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

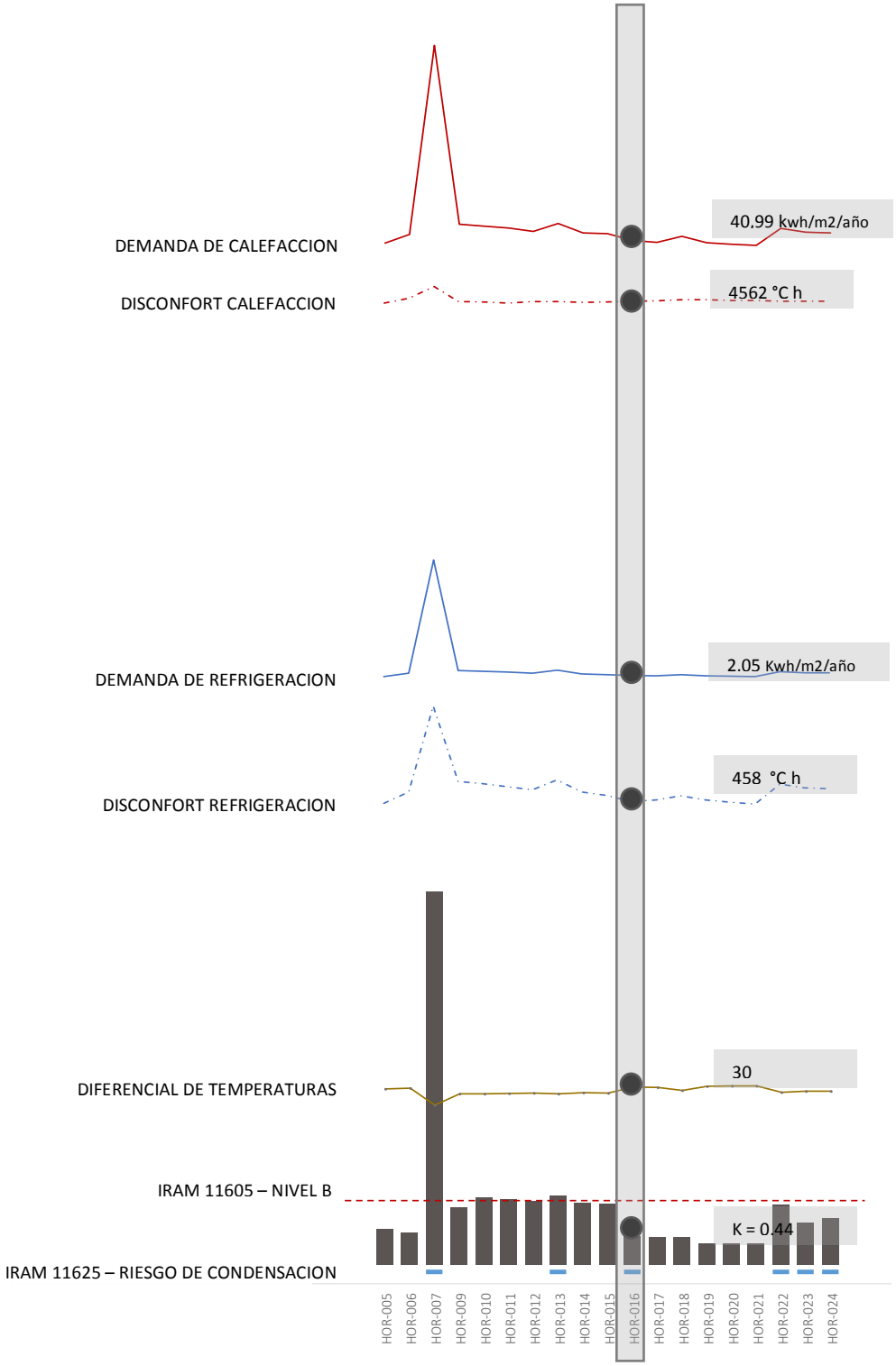



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **71,87** | kWh | 2,05 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.434,76** | kWh | 40.99 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.506,64** | kWh | **43,05** | kWh/m2/año |

| HOR-016 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 049 | N° 041 | N° 041 | N° 046 | N° 051 | N° 024 |



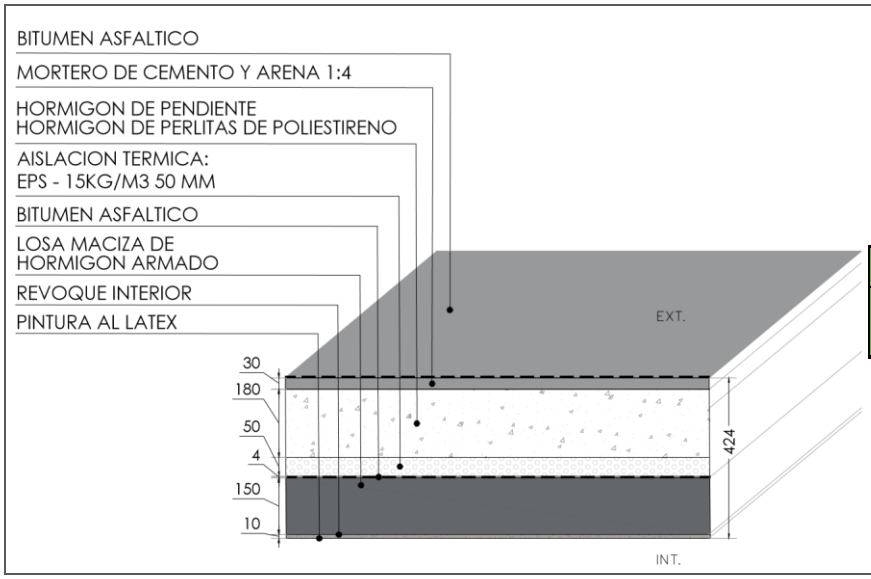

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,44 | 100% | 30,00 | 40,99 | 2,05 | 4562 | 458 |
| INC. FAMILIA | 45,18% | 0% | 102,21% | 88,31% | 44,62% | 104,74% | 71,69% |
| INC. MUNDIAL | 53,95% | 0% | 101,01% | 92,16% | 49,84% | 100,02% | 72,51% |

| HOR-017 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 15 CM DE ESPESOR CON AISLACION DE PLANCHA DE EPS (15) 5 CM Y TERMINACION DE MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

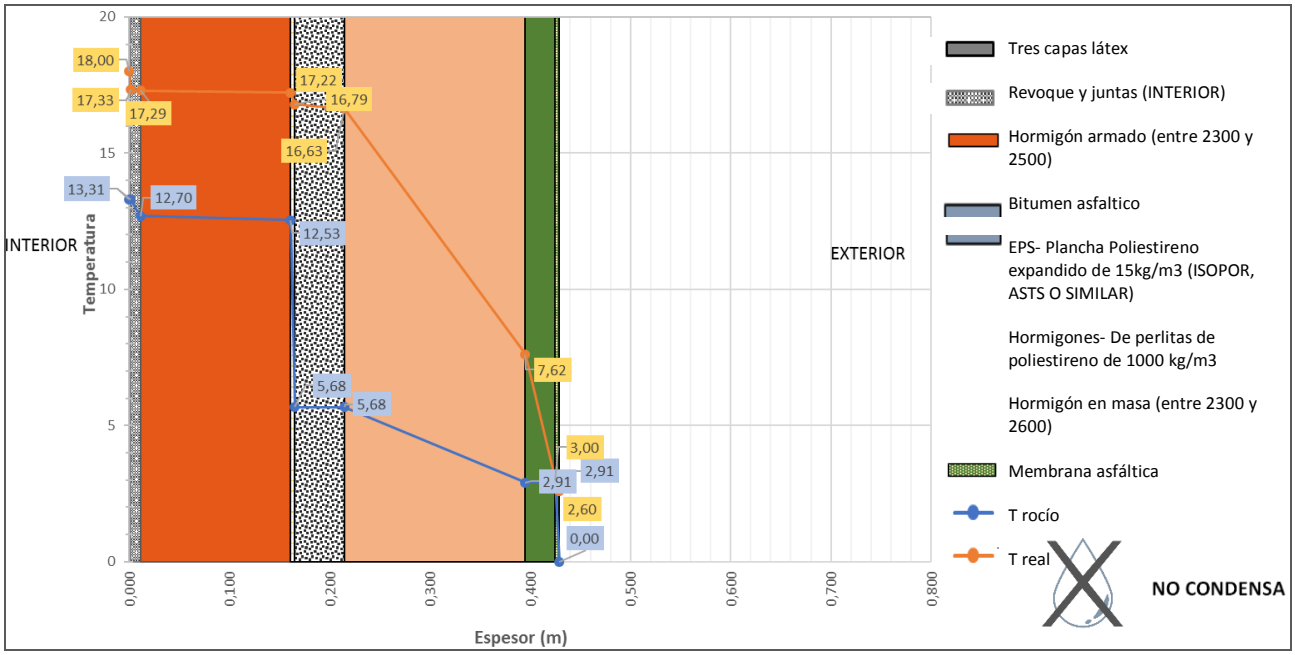
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,42 | 0,43 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



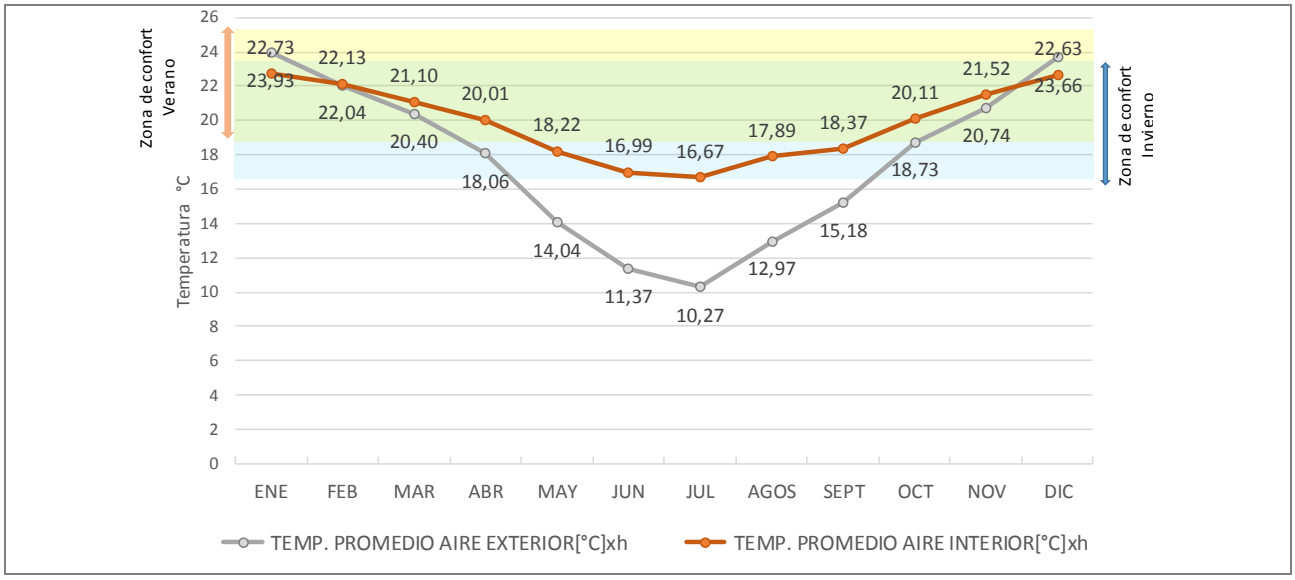

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 77,9 | 77,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **26,5** | **26,5** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **17,8** | **19,6** |
| | **Amortiguamiento:** | 0,010 | 0,006 |

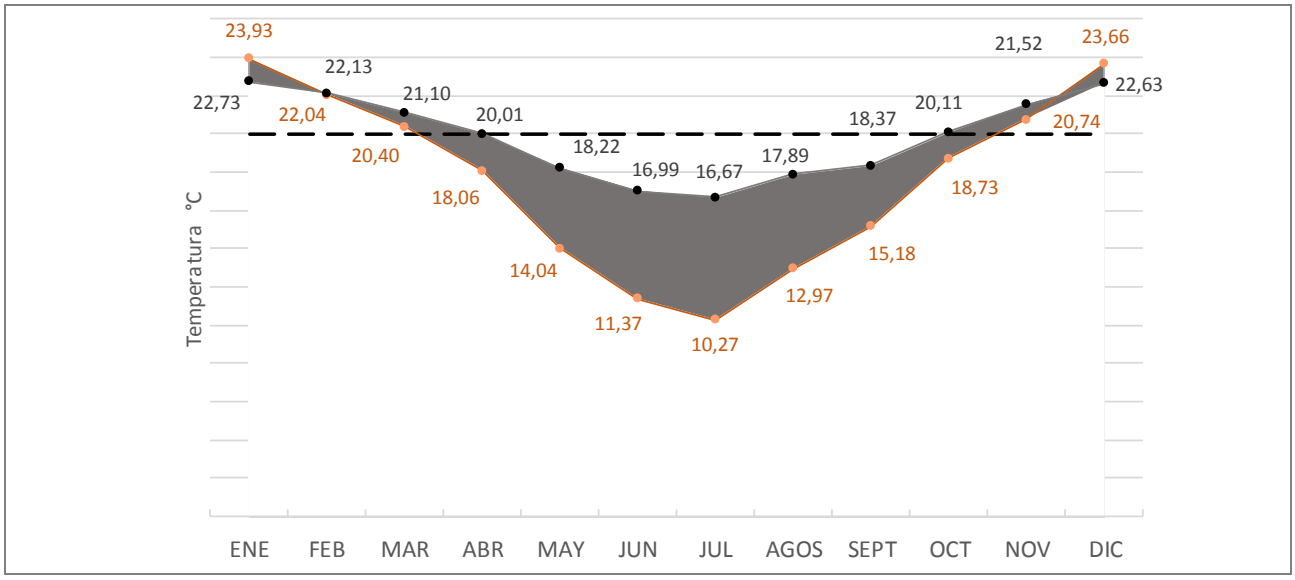
| HOR-017 | CU | HORMIGON |
|---|---|---|

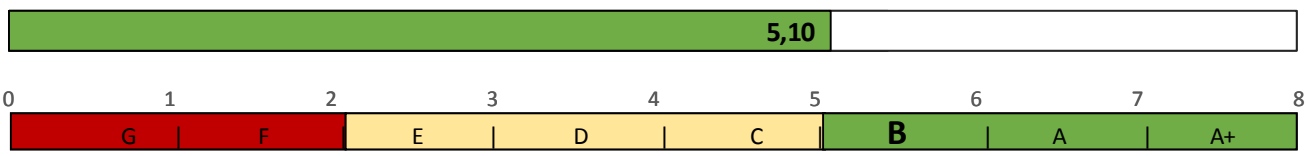
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,91** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,34** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



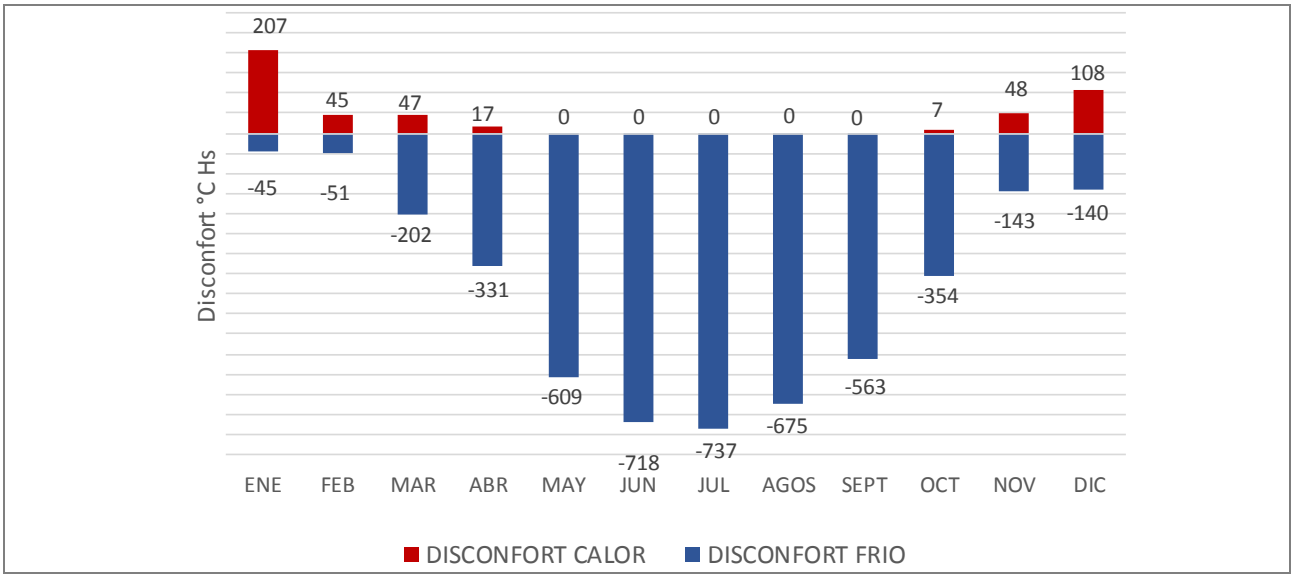




5,10 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| HOR-017 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

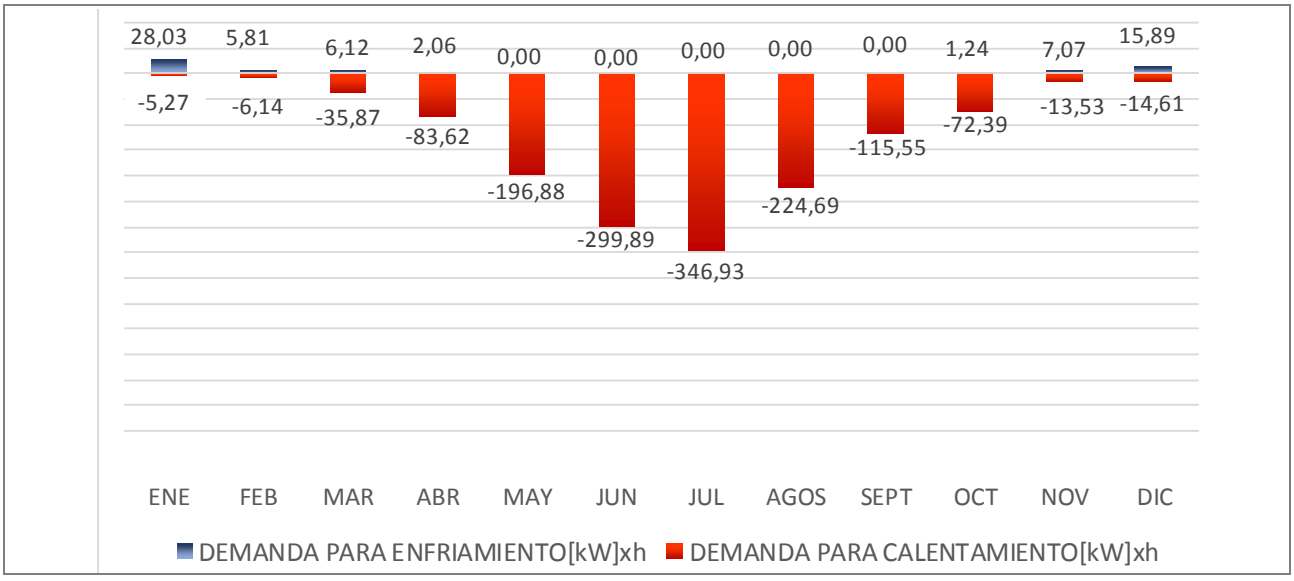
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **479** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.567** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.046** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

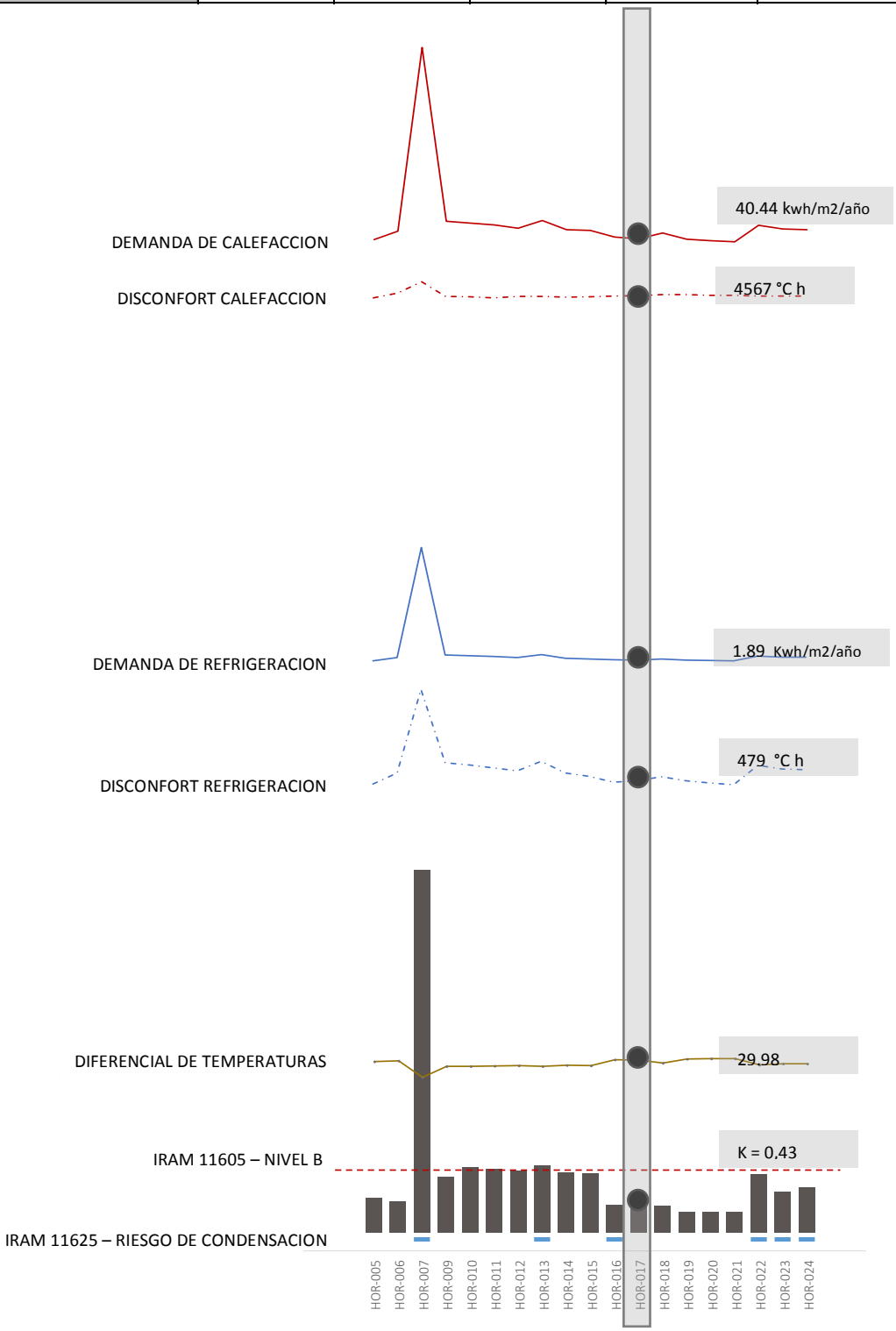



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **66,23** | kWh | 1,89 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.415,36** | kWh | 40.44 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.481,59** | kWh | **42,33** | kWh/m2/año |

| HOR-017 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 048 | N° 042 | N° 027 | N° 032 | N° 056 | N° 034 |



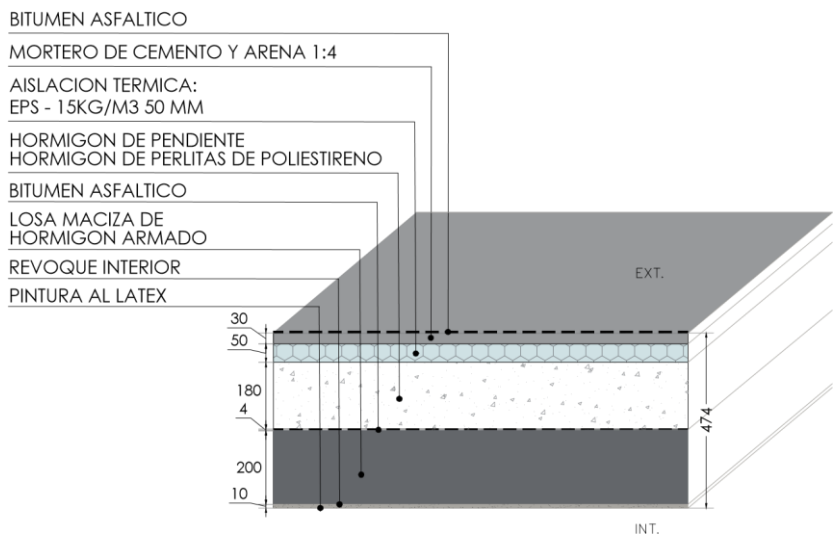

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,43 | 0% | 29,98 | 40,44 | 1,89 | 4567 | 479 |
| INC. FAMILIA | 44,75% | 0% | 102,14% | 87,13% | 41,13% | 104,86% | 74,98% |
| INC. MUNDIAL | 53,44% | 0% | 100,94% | 90,92% | 45,95% | 100,13% | 75,83% |

| HOR-018 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 20 CM DE ESPESOR CON AISLACION DE PLANCHA DE EPS (15) 5 CM Y TERMINACION DE MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

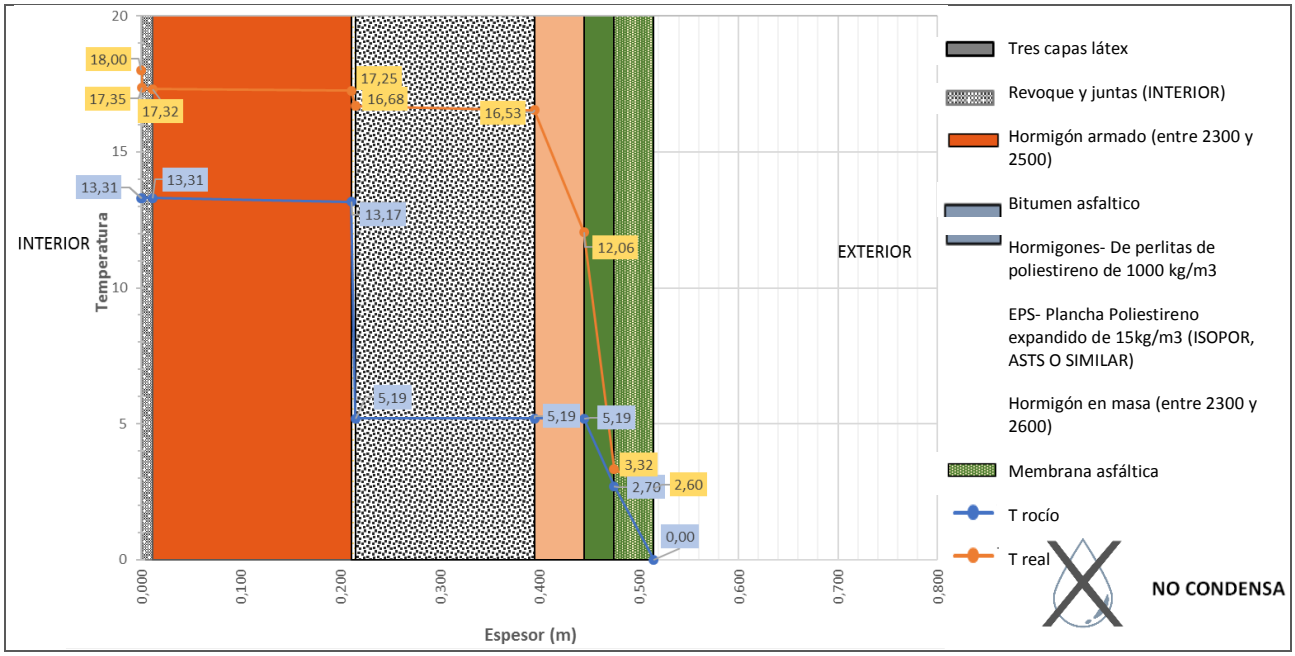
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,41 | 0,42 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



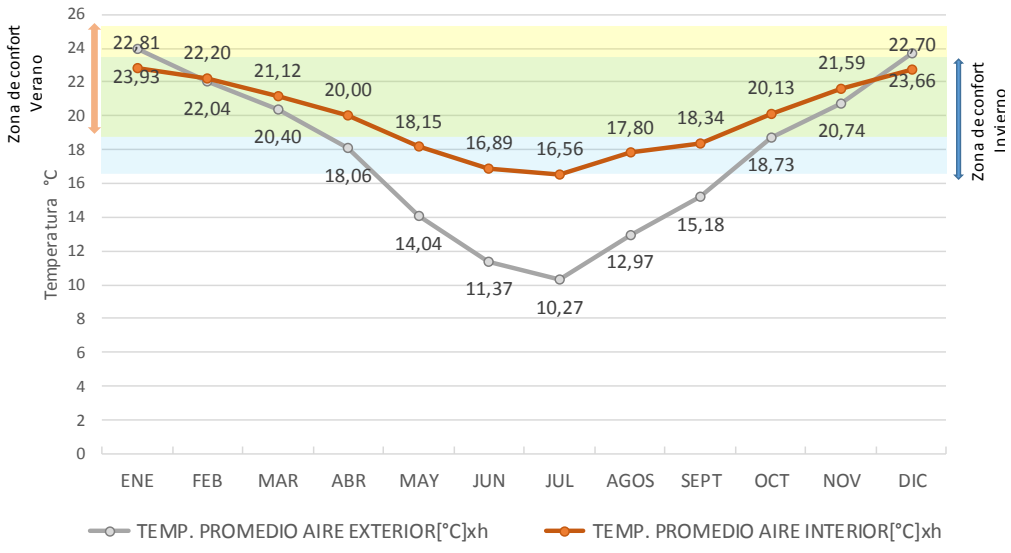

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 88,1 | 88,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **29,1** | **29,1** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **14,2** | **25,3** |
| | **Amortiguamiento:** | 0,024 | 0,001 |

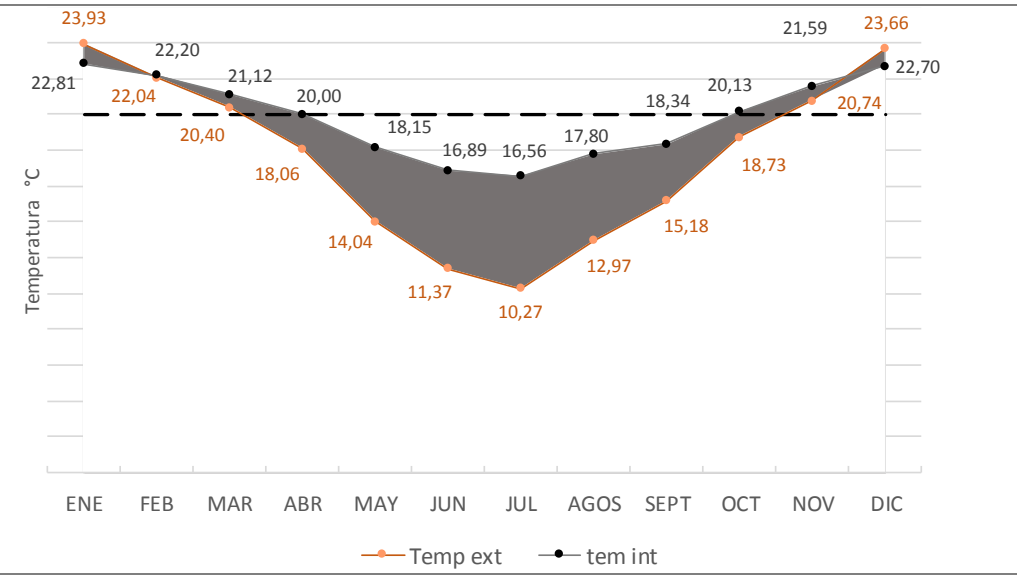
| HOR-018 | CU | HORMIGON |
|---|---|---|

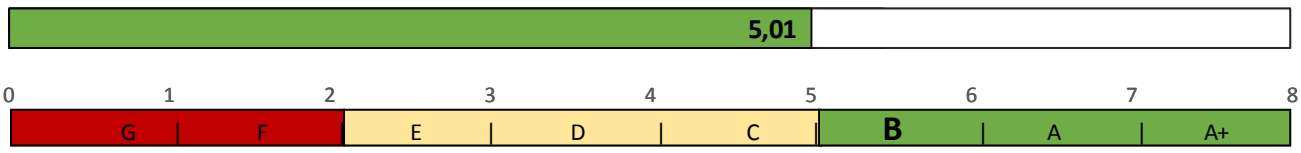
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,91** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,34** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



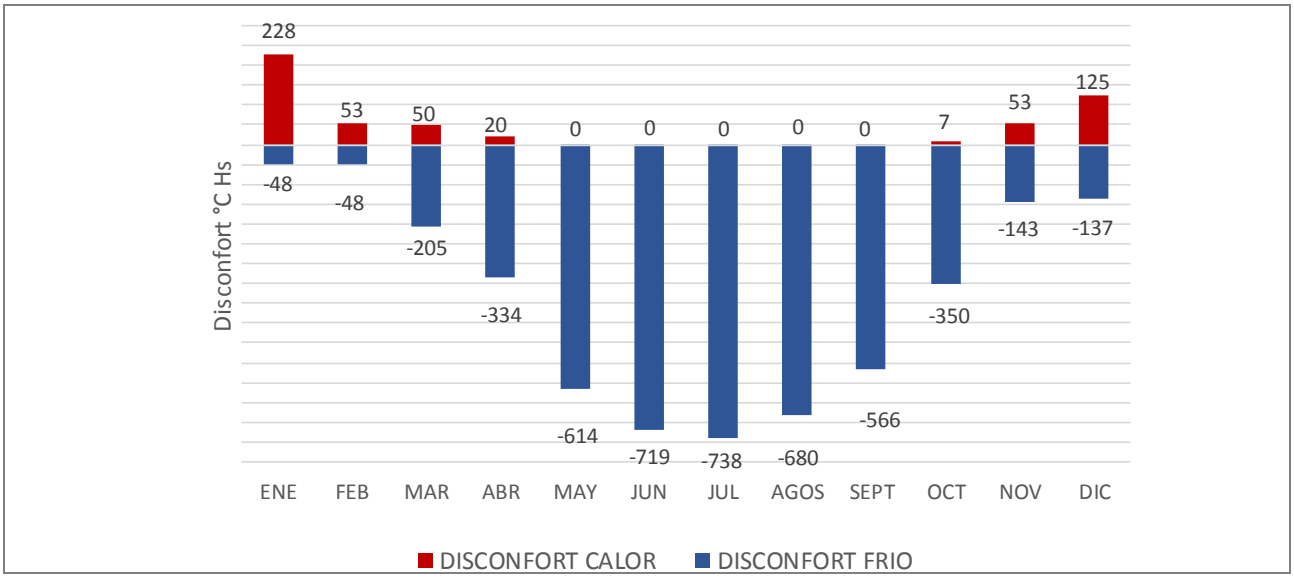




5,01 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| HOR-018 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

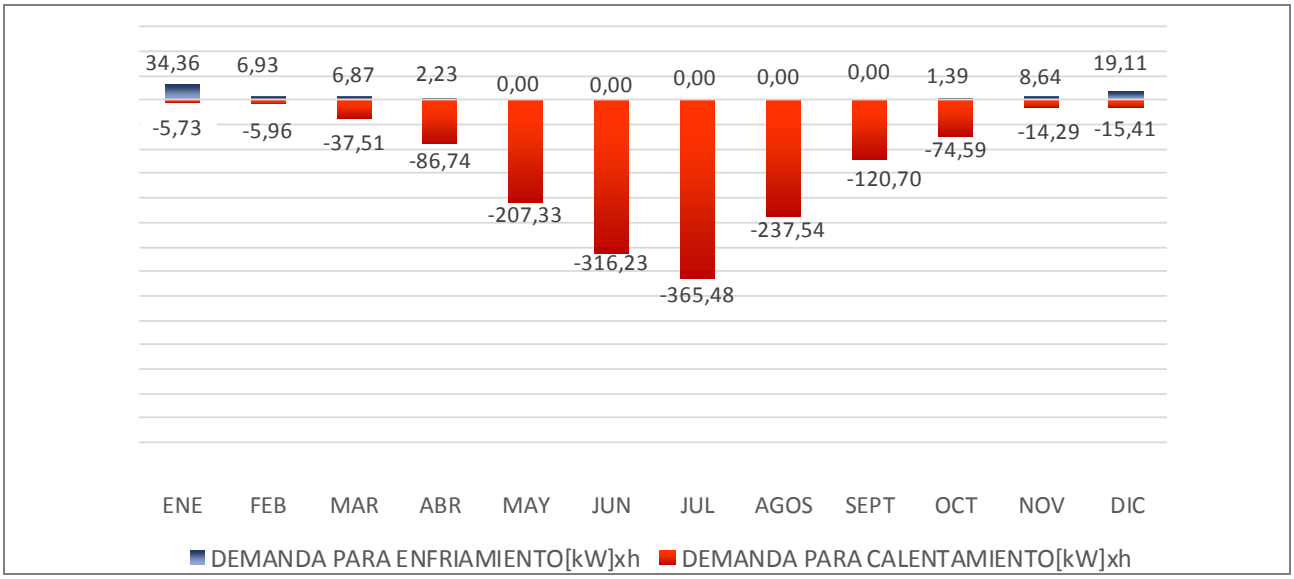
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **536** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.581** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.117** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

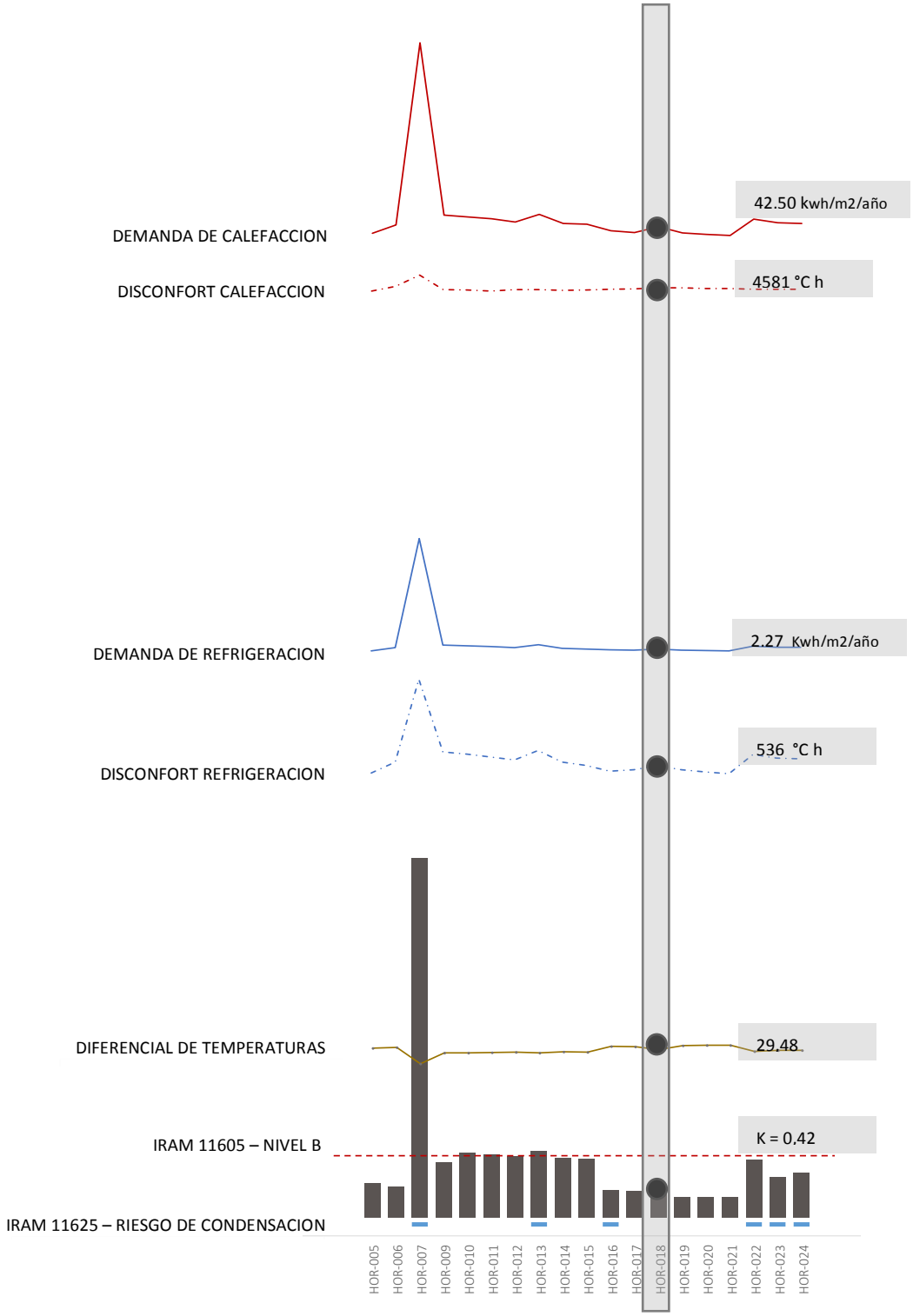



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **79,54** | kWh | 2,27 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.487,52** | kWh | 42,50 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.567,06** | kWh | **44,77** | kWh/m2/año |

| HOR-018 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 046 | N° 078 | N° 056 | N° 048 | N° 072 | N° 047 |



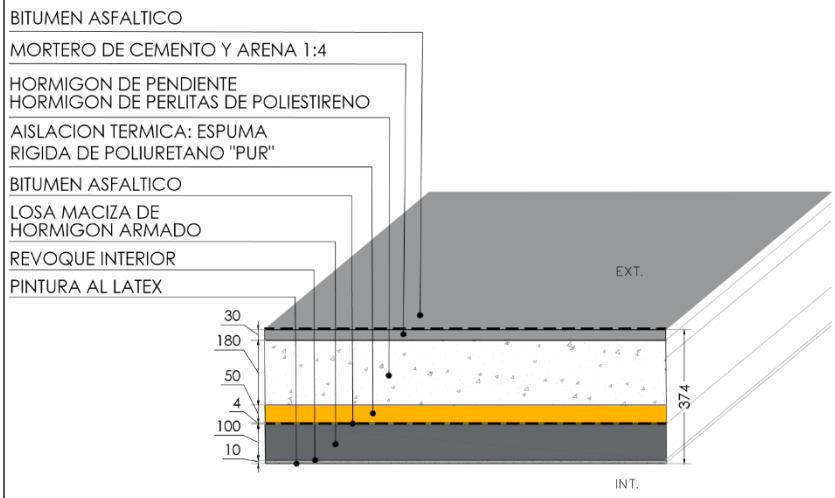

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,42 | 0% | 29,48 | 42,5 | 2,27 | 4581 | 536 |
| INC. FAMILIA | 43,42% | 0% | 100,44% | 91,56% | 49,40% | 105,18% | 83,90% |
| INC. MUNDIAL | 51,85% | 0% | 99,26% | 95,55% | 55,19% | 100,44% | 84,86% |

| HOR-019 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 10 CM DE ESPESOR CON AISLACION DE PLANCHA DE PUR 5 CM Y TERMINACION DE MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

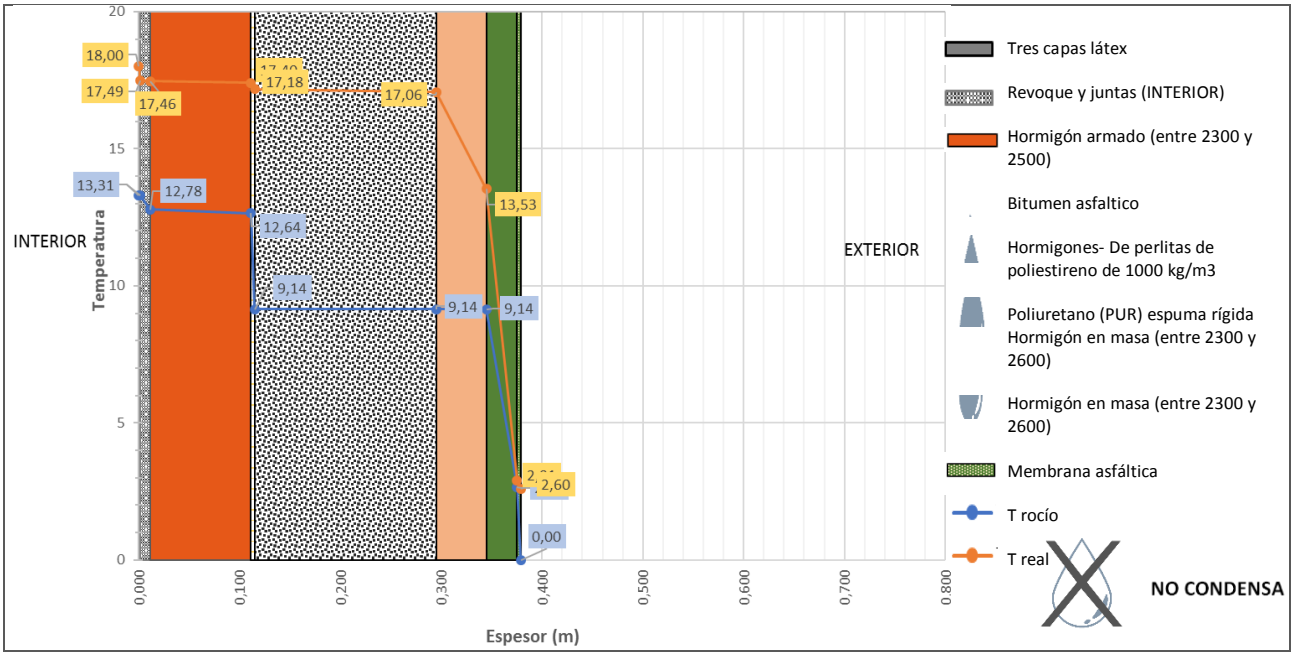
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,32 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



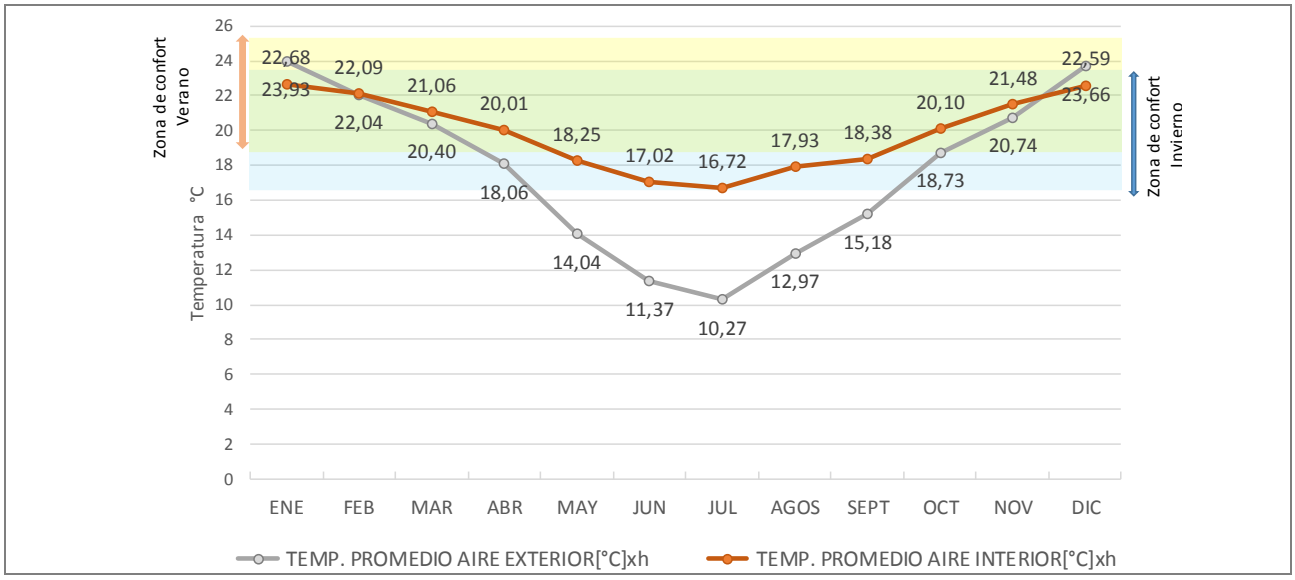

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 49,0 | 49,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **27,9** | **27,9** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **14,2** | **23,5** |
| | **Amortiguamiento:** | 0,024 | 0,002 |

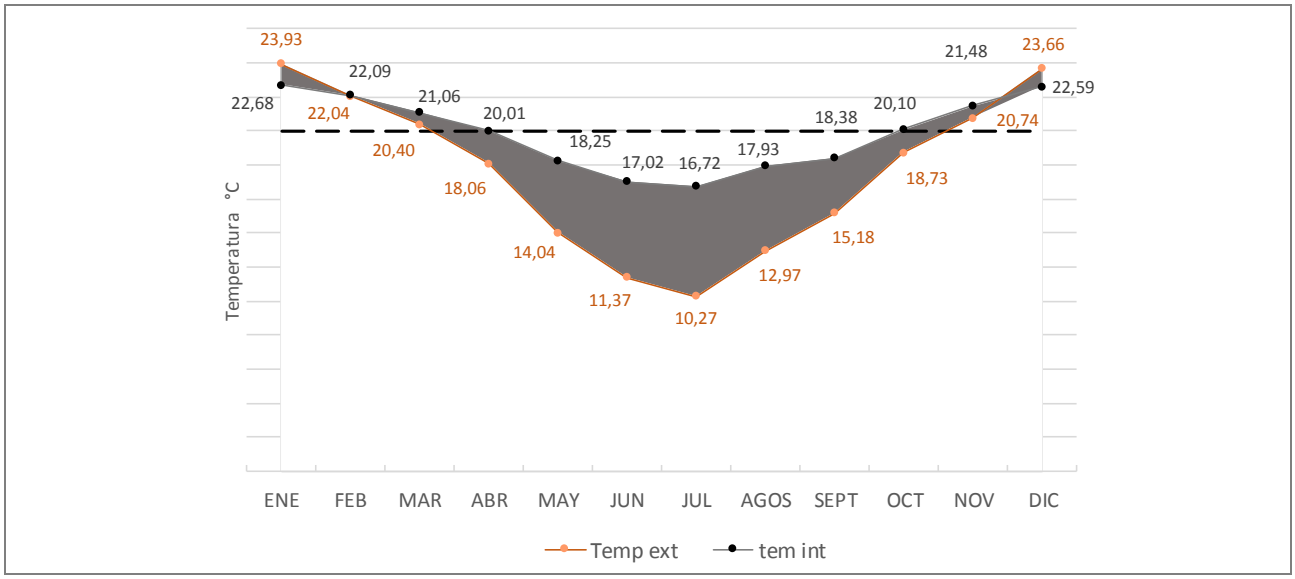
| HOR-019 | CU | HORMIGON |
|---|---|---|

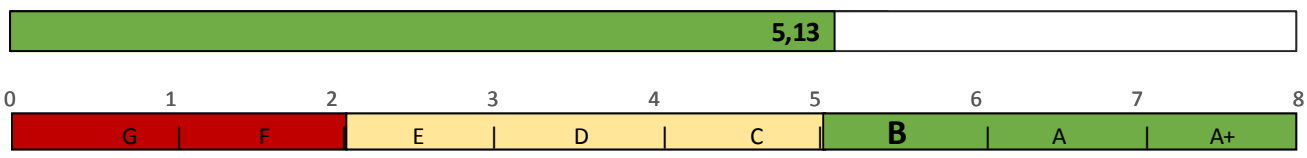
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,93** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,35** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



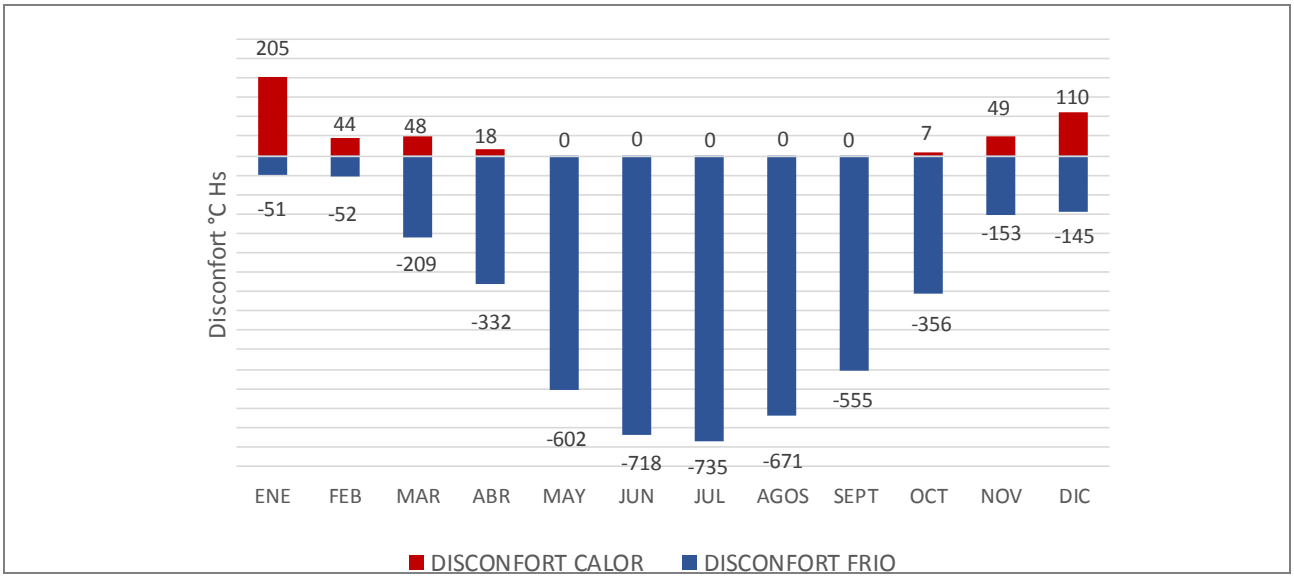




5,13 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| HOR-019 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

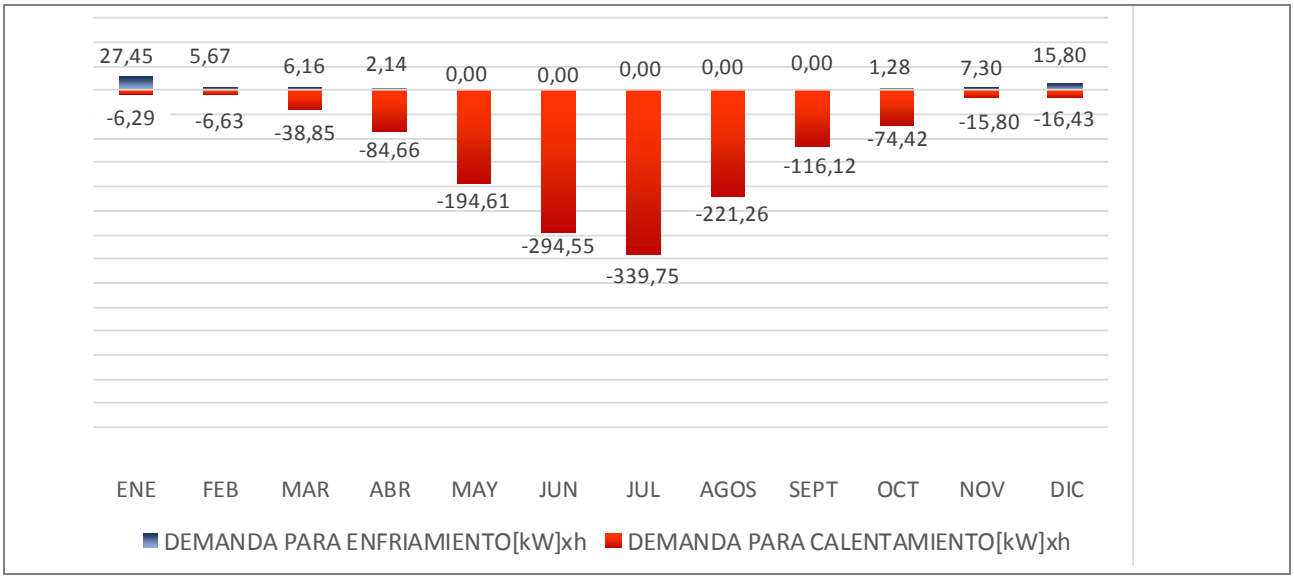
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **482** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.579** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.061** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

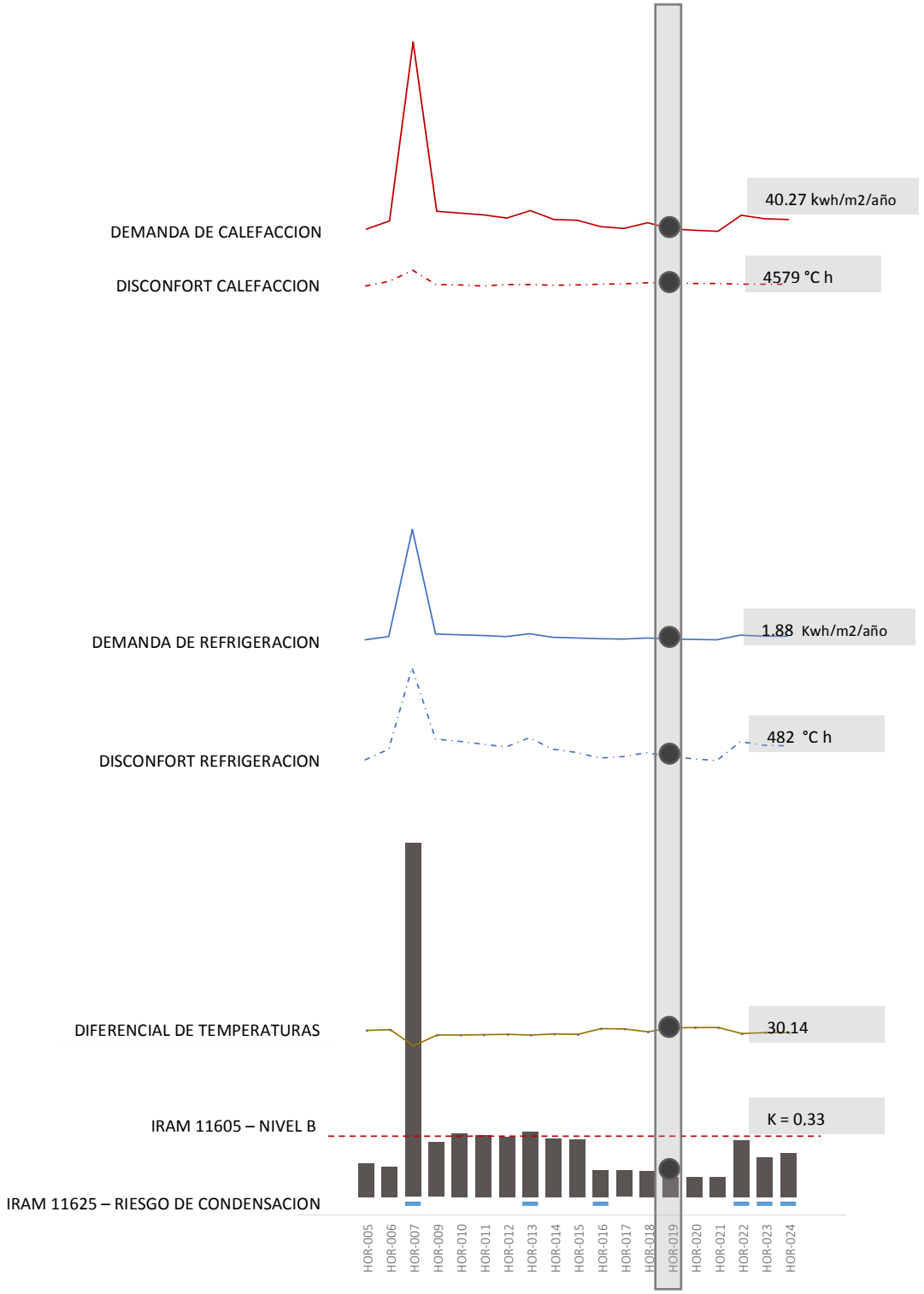



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **65,80** | kWh | 1,88 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.409,35** | kWh | 40,27 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.475,15** | kWh | **42,15** | kWh/m2/año |

| HOR-019 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 024 | N° 031 | N° 024 | N° 029 | N° 071 | N° 038 |



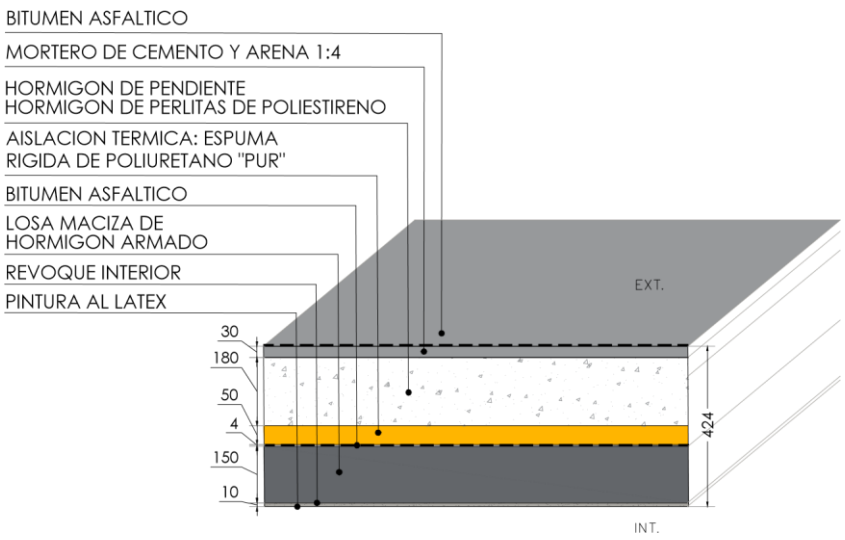

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,33 | 0% | 30,14 | 40,27 | 1,88 | 4579 | 482 |
| INC. FAMILIA | 34,12% | 0% | 102,68% | 86,76% | 40,92% | 105,13% | 75,45% |
| INC. MUNDIAL | 40,74% | 0% | 101,48% | 90,54% | 45,71% | 100,40% | 76,31% |

| HOR-020 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 15 CM DE ESPESOR CON AISLACION DE PLANCHA DE PUR DE 5 CM Y TERMINACION MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

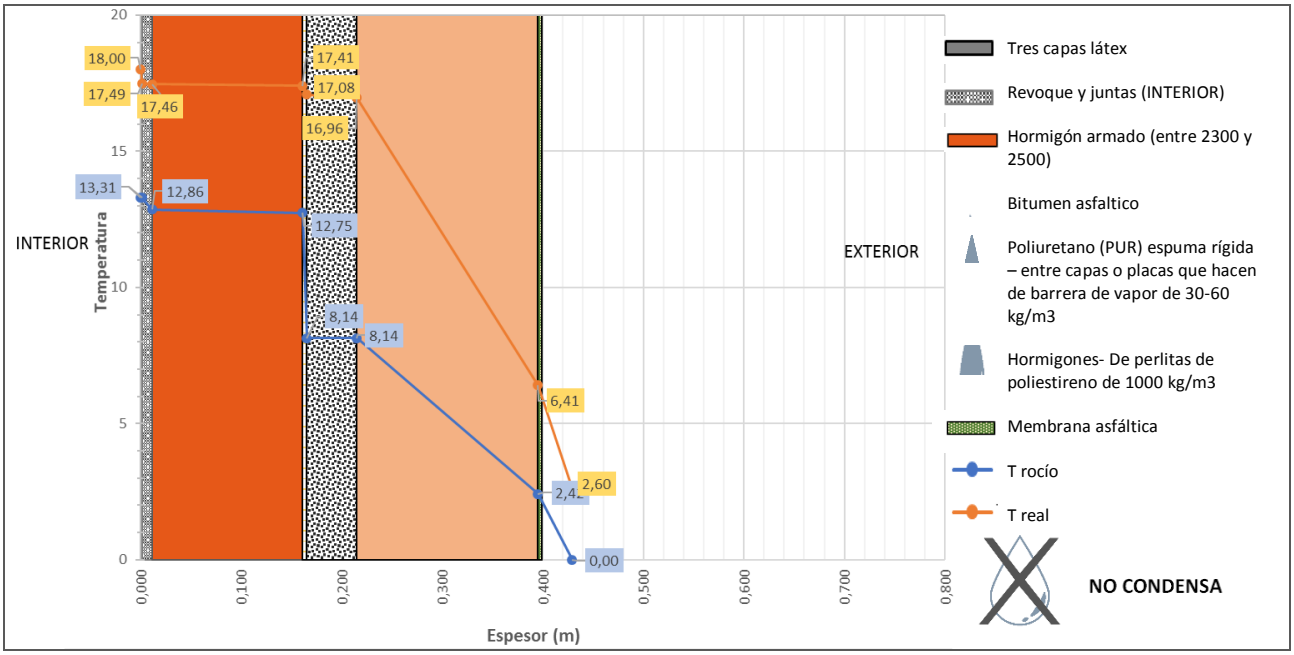
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,32 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



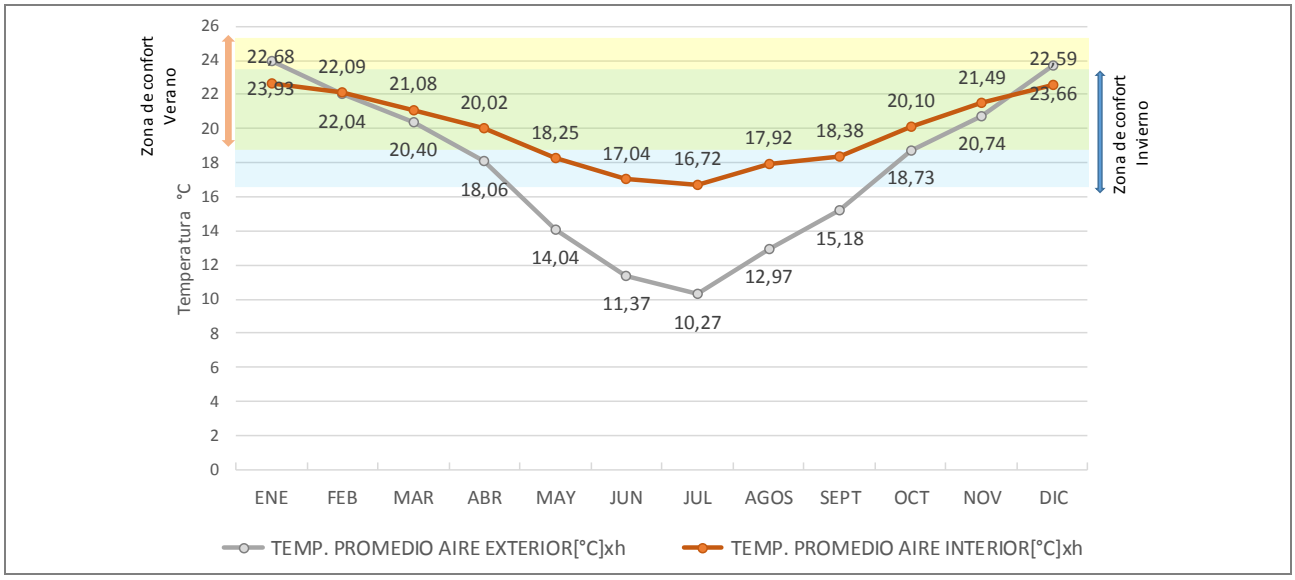

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 58,4 | 58,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **30,7** | **30,7** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **20,4** | **22,4** |
| | **Amortiguamiento:** | 0,005 | 0,003 |

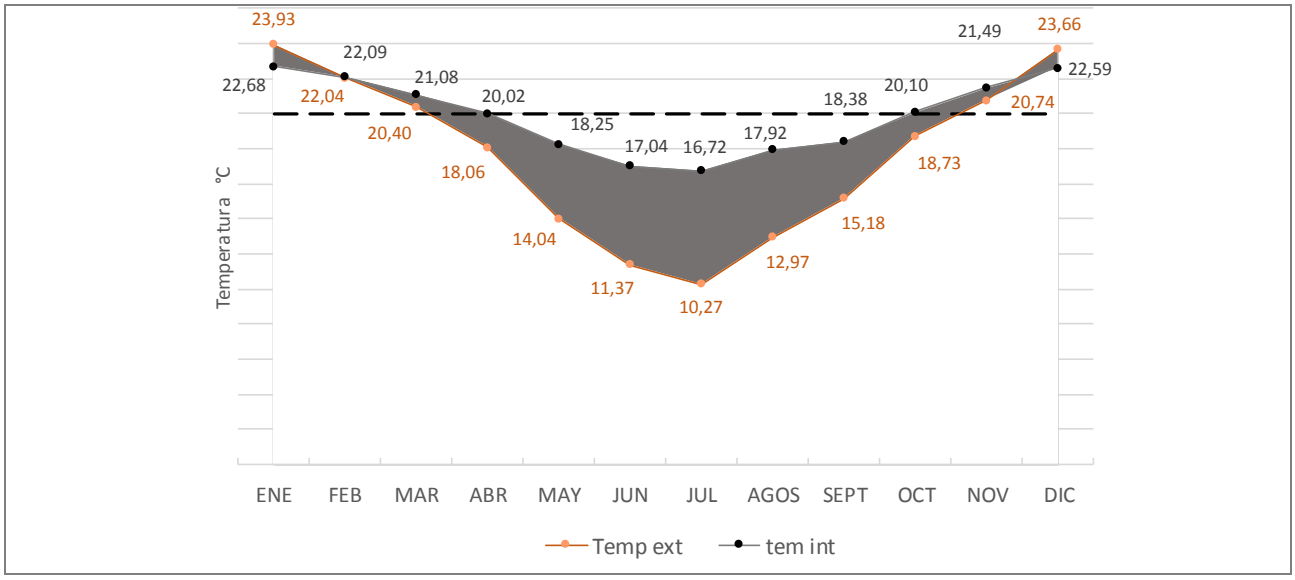
| HOR-020 | CU | HORMIGON |
|---|---|---|

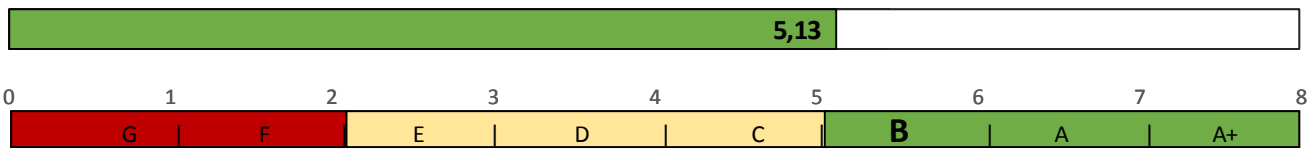
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,82** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,41** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



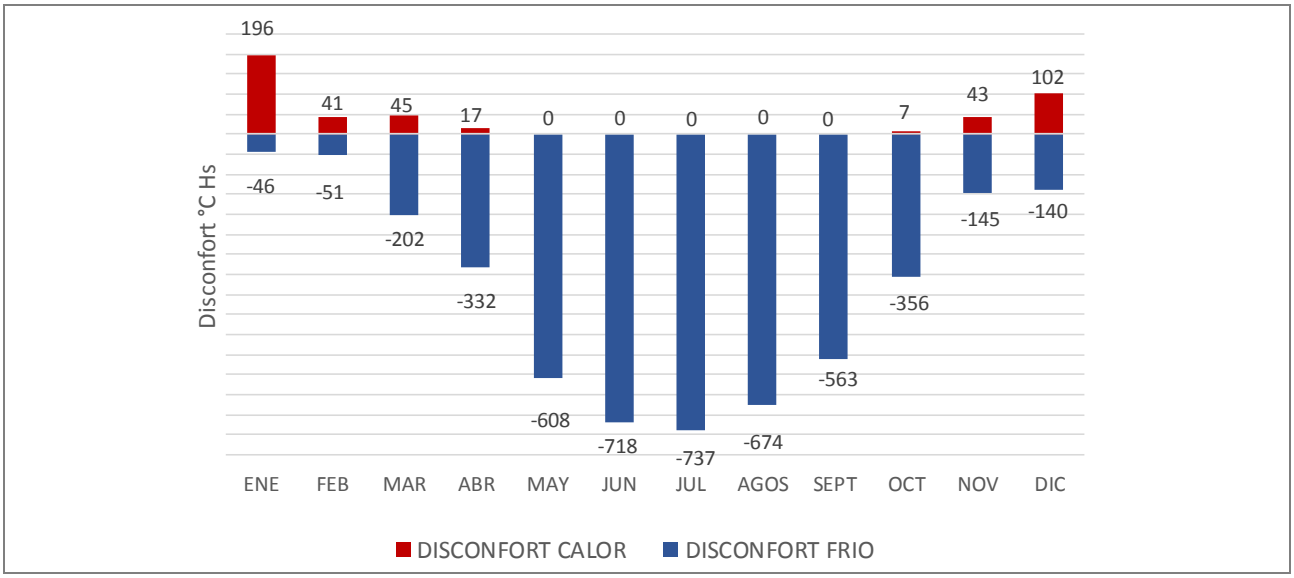




5.13 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.64

| HOR-020 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

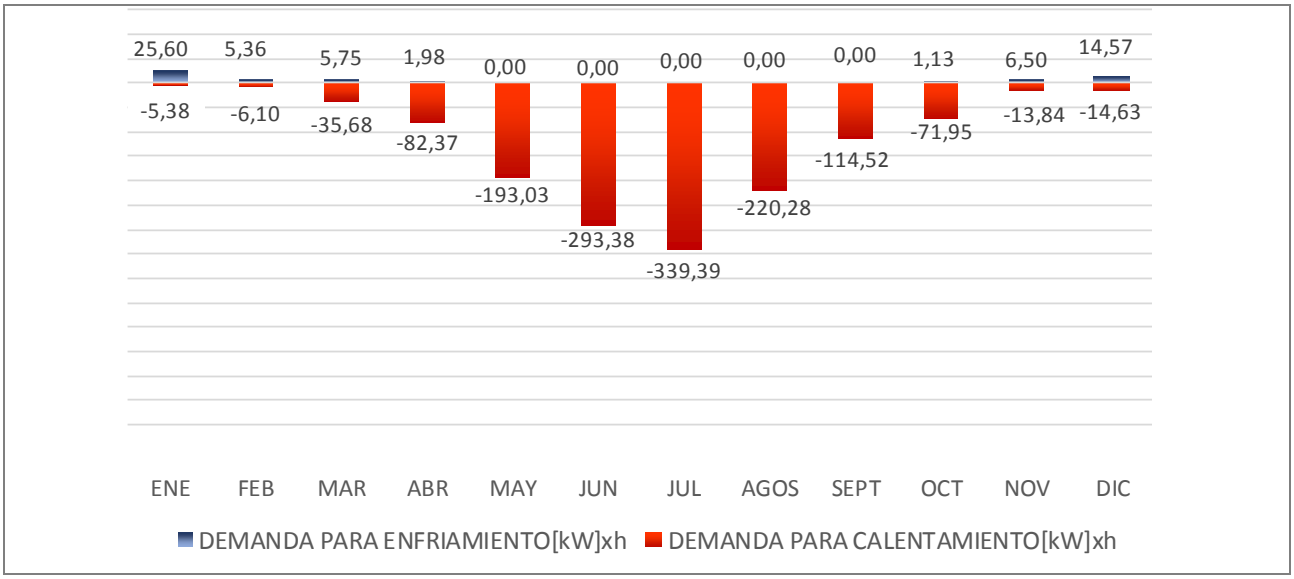
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **451** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.572** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.022** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

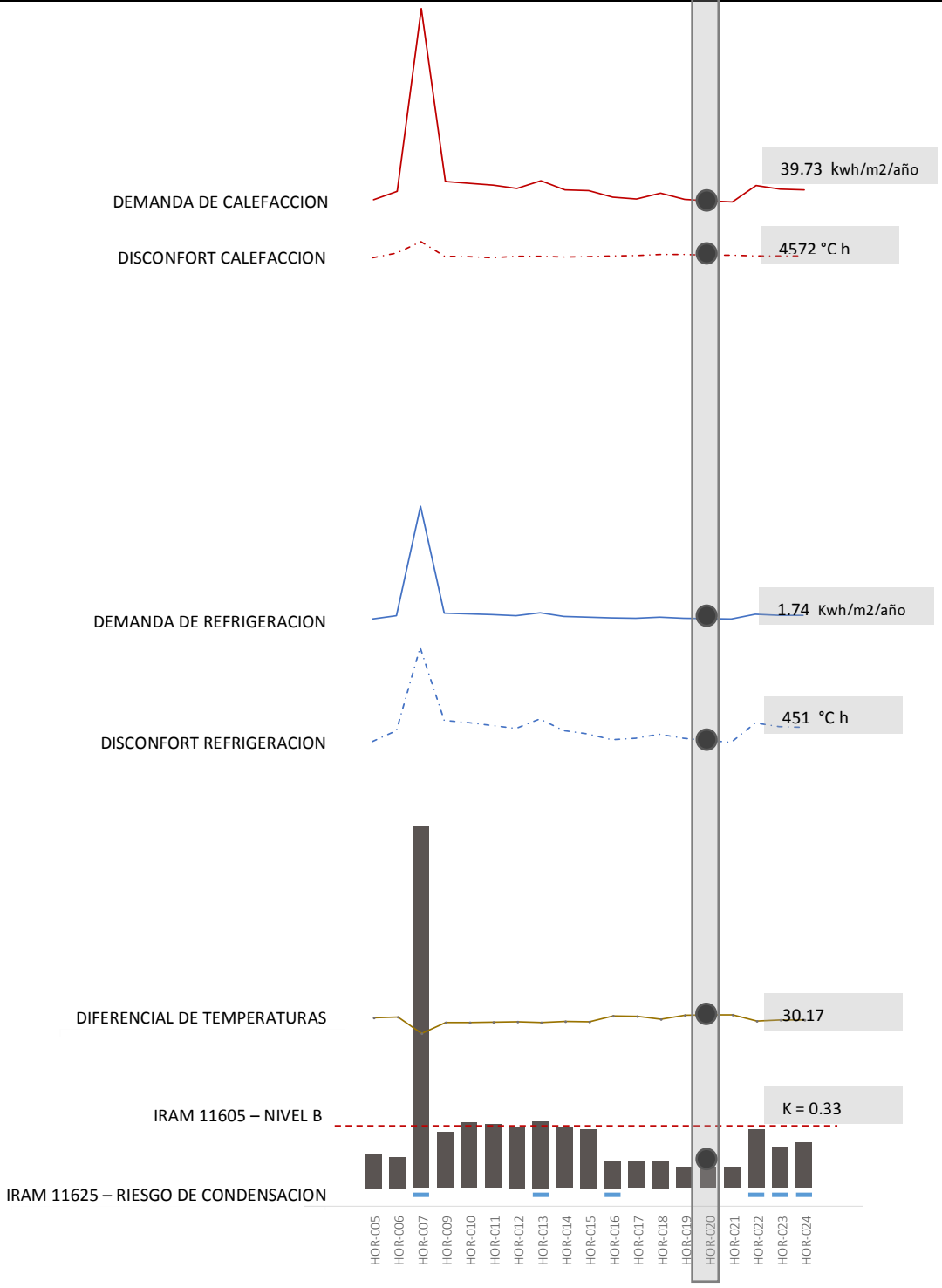



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **60,89** | kWh | 1,74 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.390,55** | kWh | 39,73 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.451,43** | kWh | **41,47** | kWh/m2/año |

| HOR-020 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 025 | N° 025 | N° 014 | N° 021 | N° 062 | N° 023 |



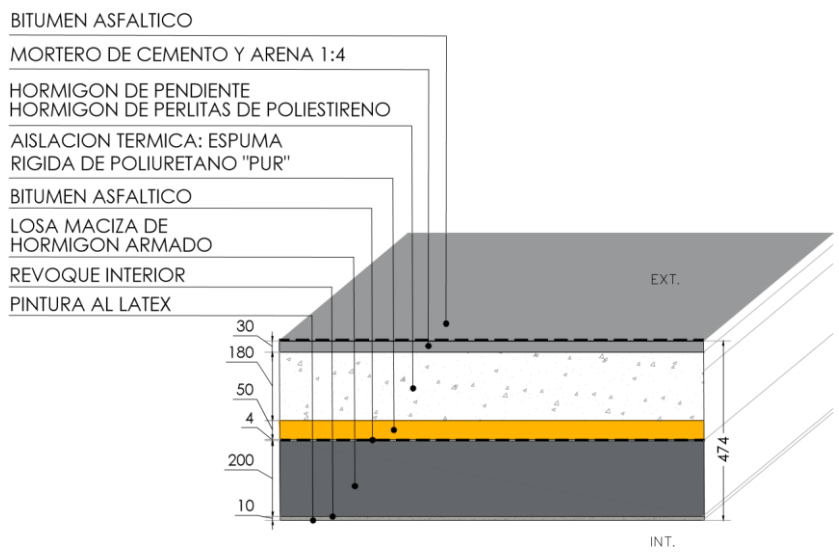

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,33 | 0% | 30,17 | 39,73 | 1,74 | 4572 | 451 |
| INC. FAMILIA | 34,12% | 0% | 102,79% | 85,60% | 37,87% | 104,97% | 70,60% |
| INC. MUNDIAL | 40,74% | 0% | 101,58% | 89,32% | 42,30% | 100,24% | 71,40% |

| HOR-021 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA MACIZA HORMIGON IN SITU DE 20 CM DE ESPESOR CON AISLACION DE PLANCHA DE PUR 5 CM Y TERMINACION DE MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

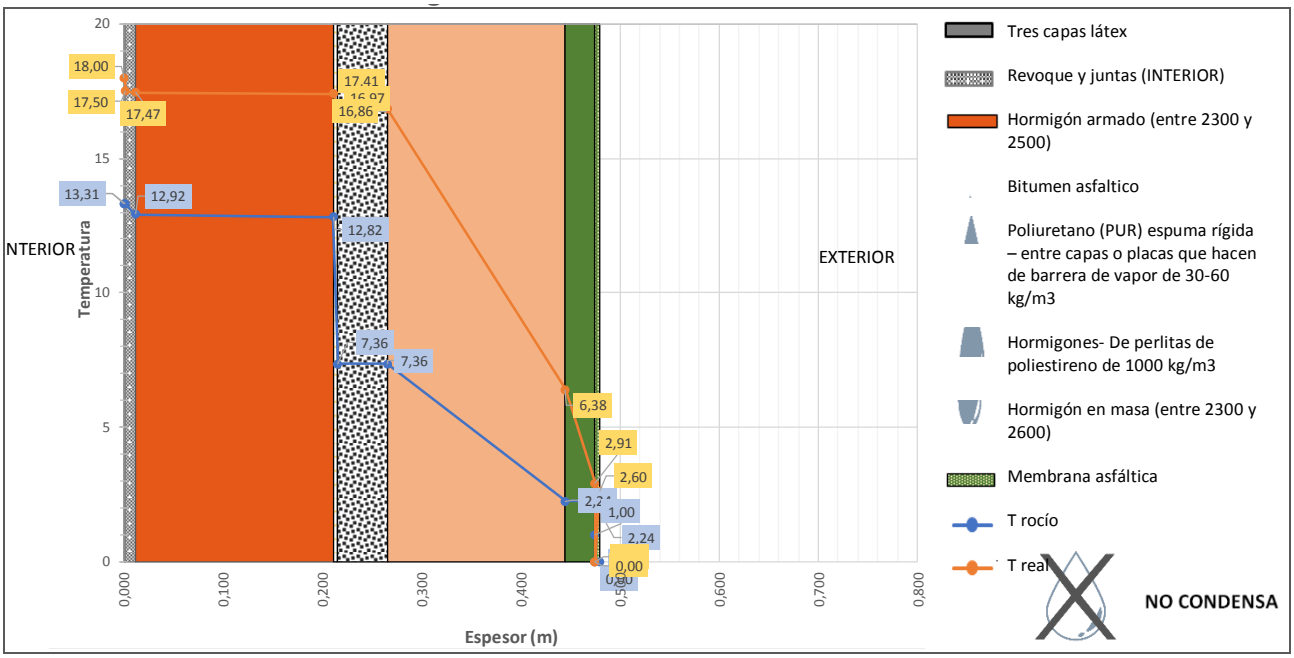
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,32 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



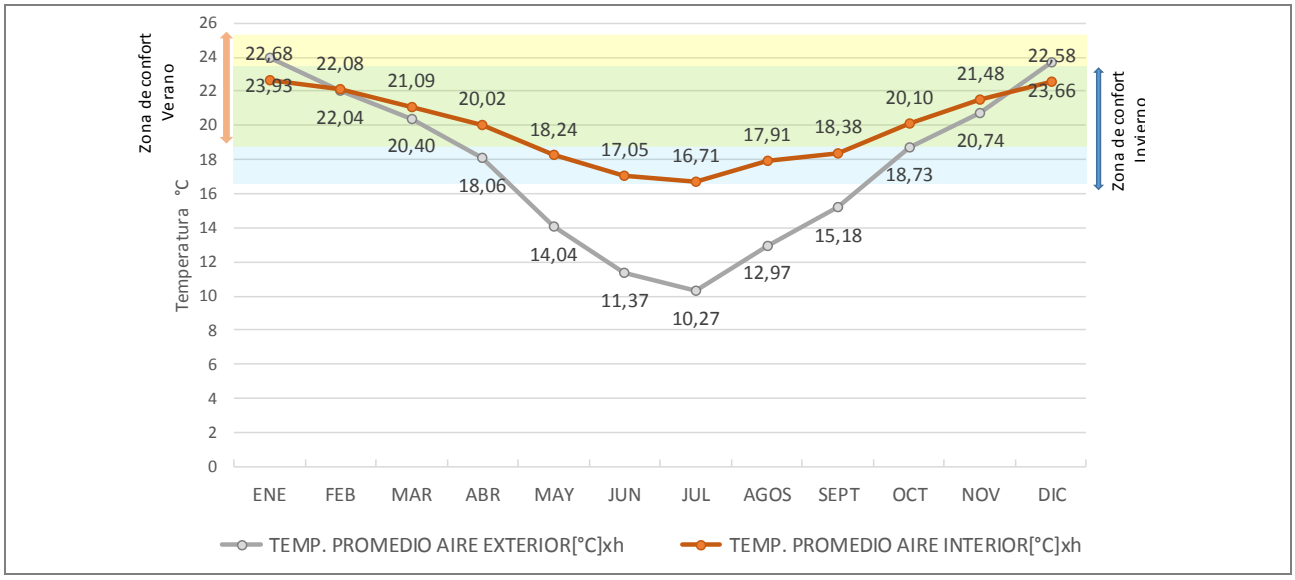

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 67,8 | 67,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **33,3** | **33,3** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **20,8** | **25,4** |
| | **Amortiguamiento:** | 0,004 | 0,001 |

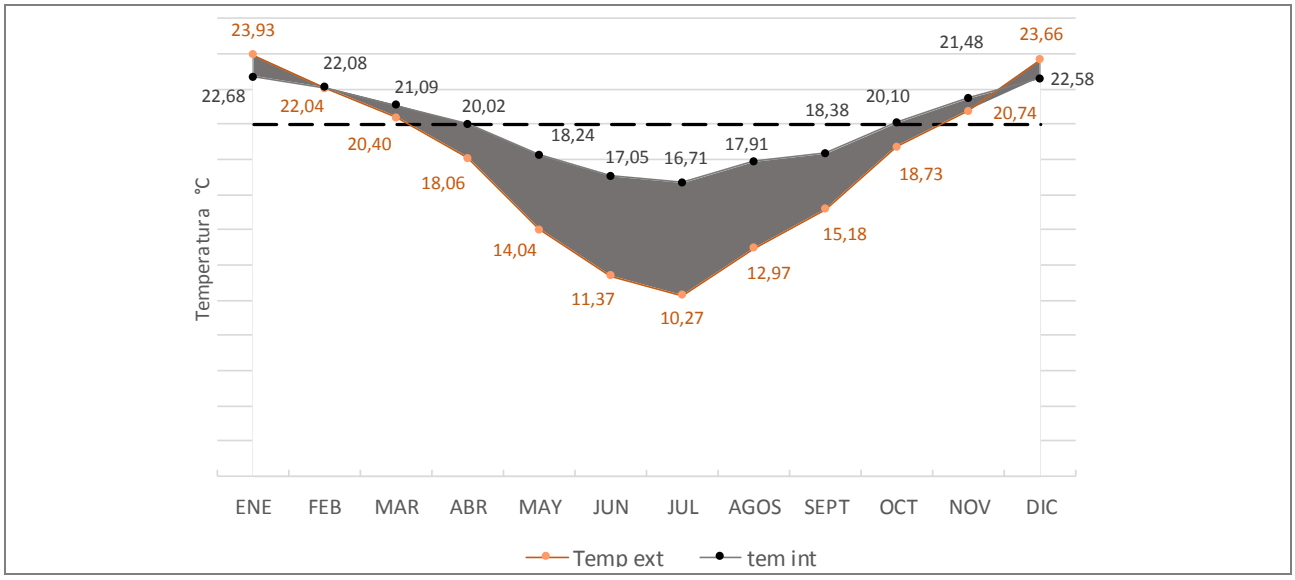
| HOR-021 | CU | HORMIGON |
|---|---|---|

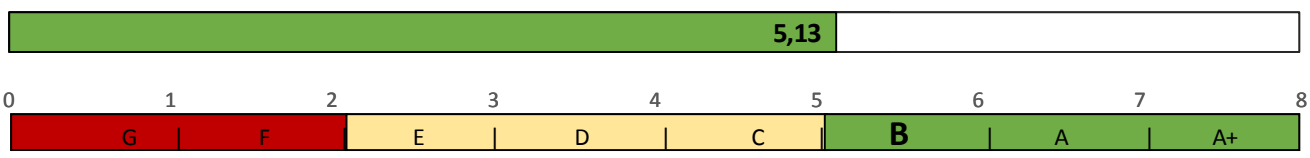
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,69** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,48** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



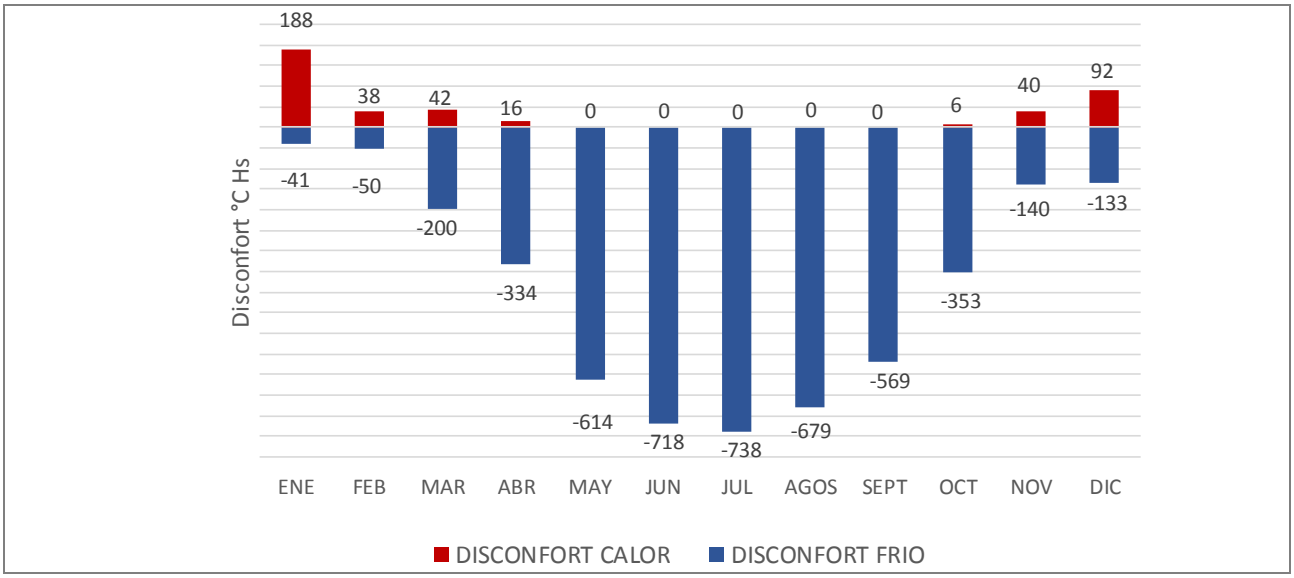




5.13 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.64

| HOR-021 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

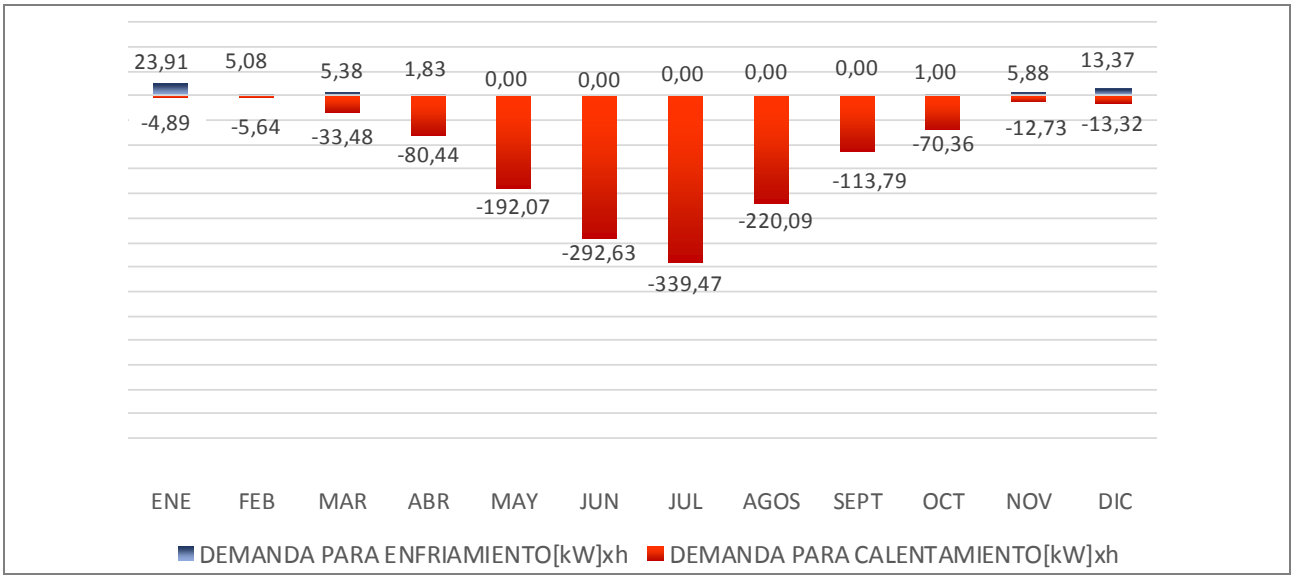
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **422** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.569** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.990** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

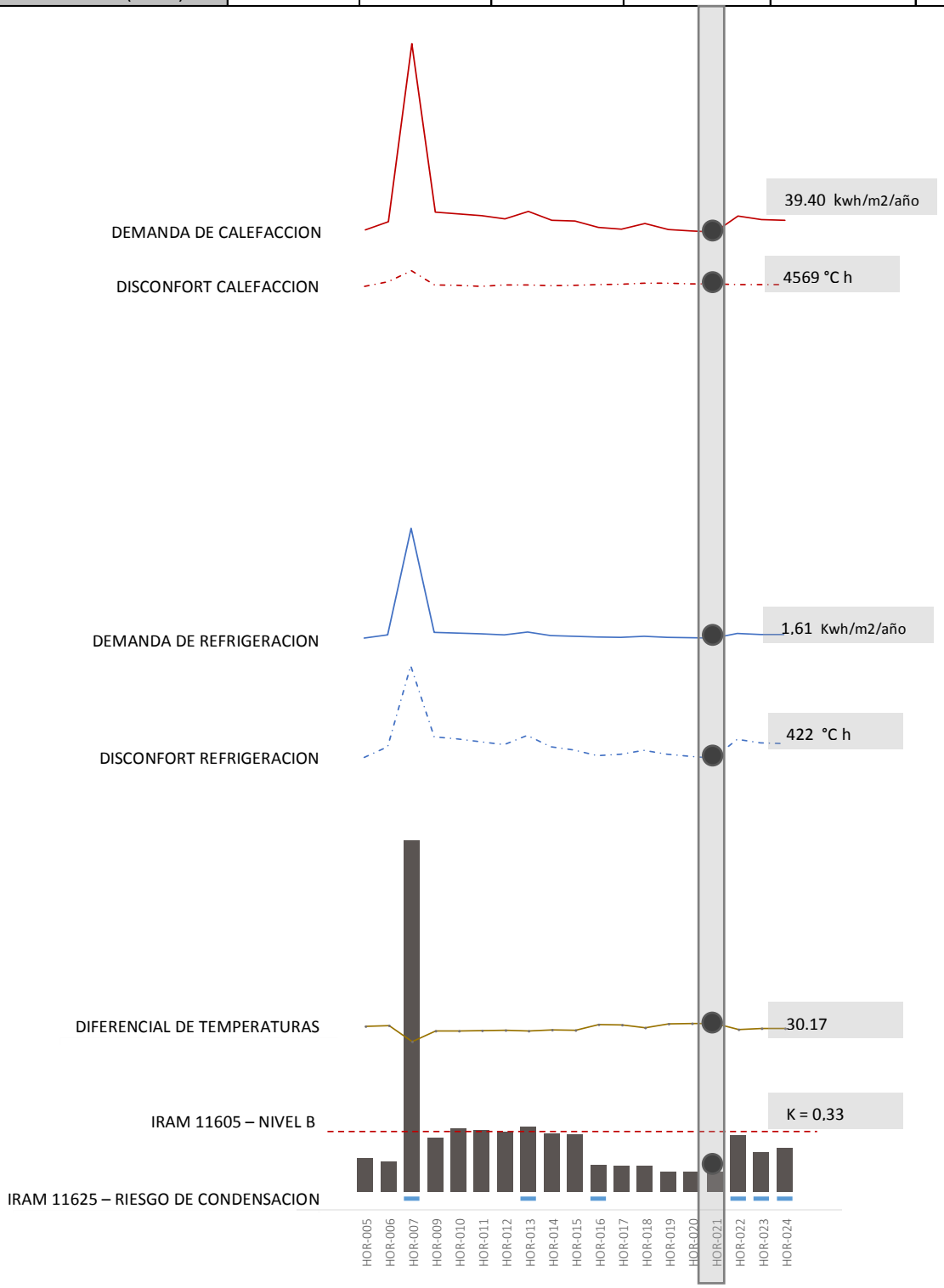



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **56,45** | kWh | 1,61 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.378,90** | kWh | 39,40 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.435,36** | kWh | **41,01** | kWh/m2/año |

| HOR-021 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 026 | N° 026 | N° 012 | N° 012 | N° 059 | N° 014 |



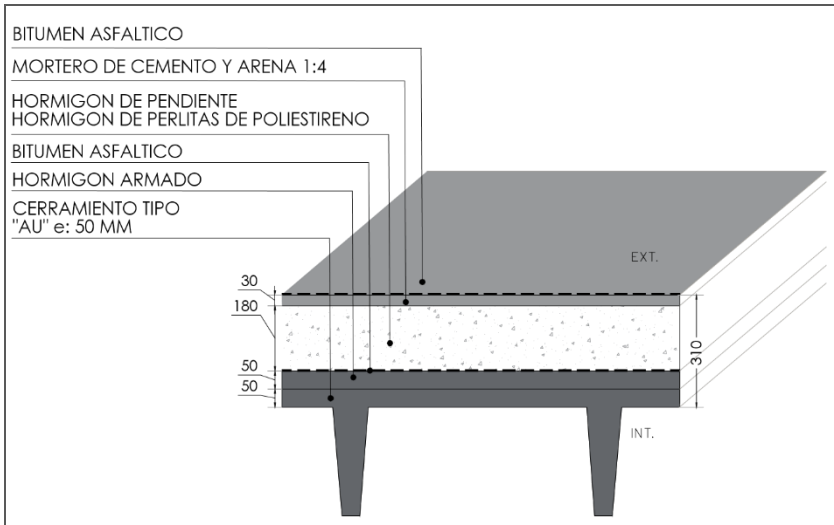

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,33 | 0% | 30,17 | 39,4 | 1,61 | 4569 | 422 |
| INC. FAMILIA | 34,12% | 0% | 102,79% | 84,89% | 35,04% | 104,90% | 66,06% |
| INC. MUNDIAL | 40,74% | 0% | 101,58% | 88,58% | 39,14% | 100,18% | 66,81% |

| HOR-022 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA NERVURADA TIPO AU PREMOLDEADA DE HORMIGON ESPESOR 5 CM (TIPO ASTORI).

## INDICE DE TRANSMITANCIA TERMICA "K"

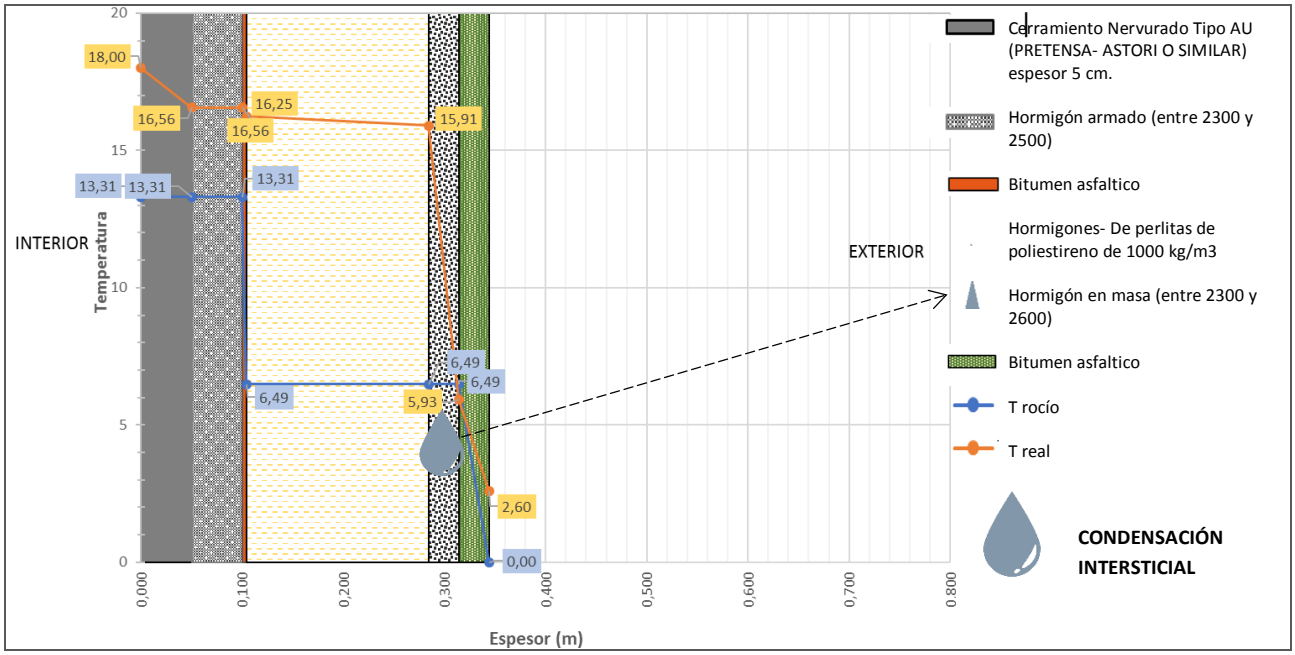
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,88 | 0,94 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



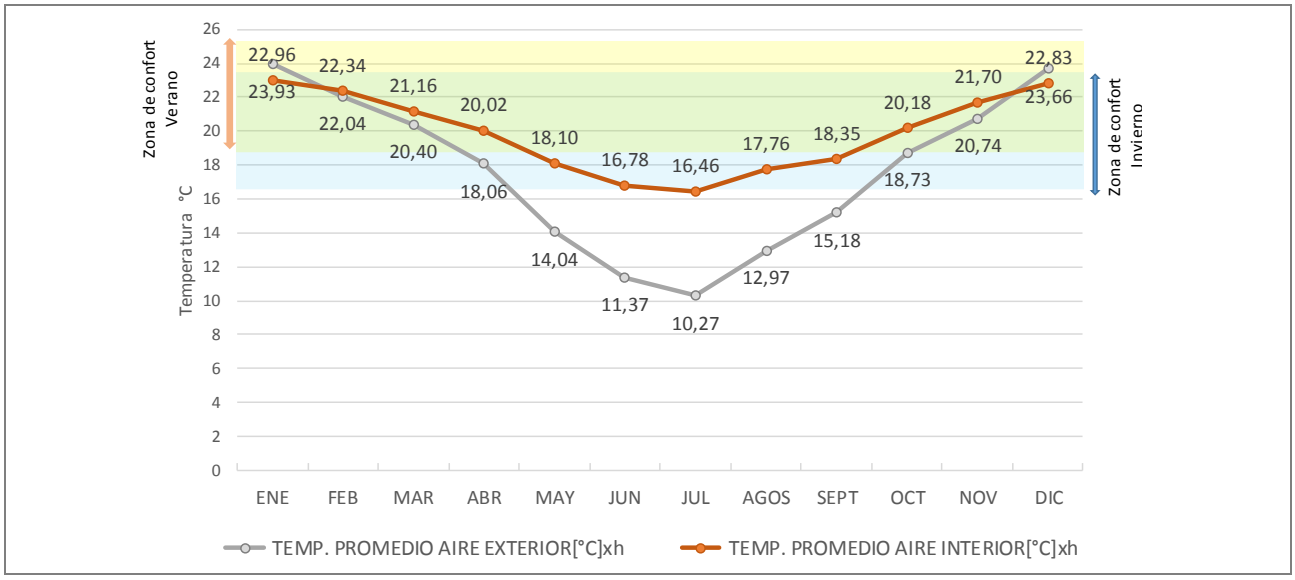

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 128,0 | 151,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,5** | **15,8** |
| | **Amortiguamiento:** | 0,005 | 0,003 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,3** | **13,1** |
| | **Amortiguamiento:** | 0,051 | 0,032 |

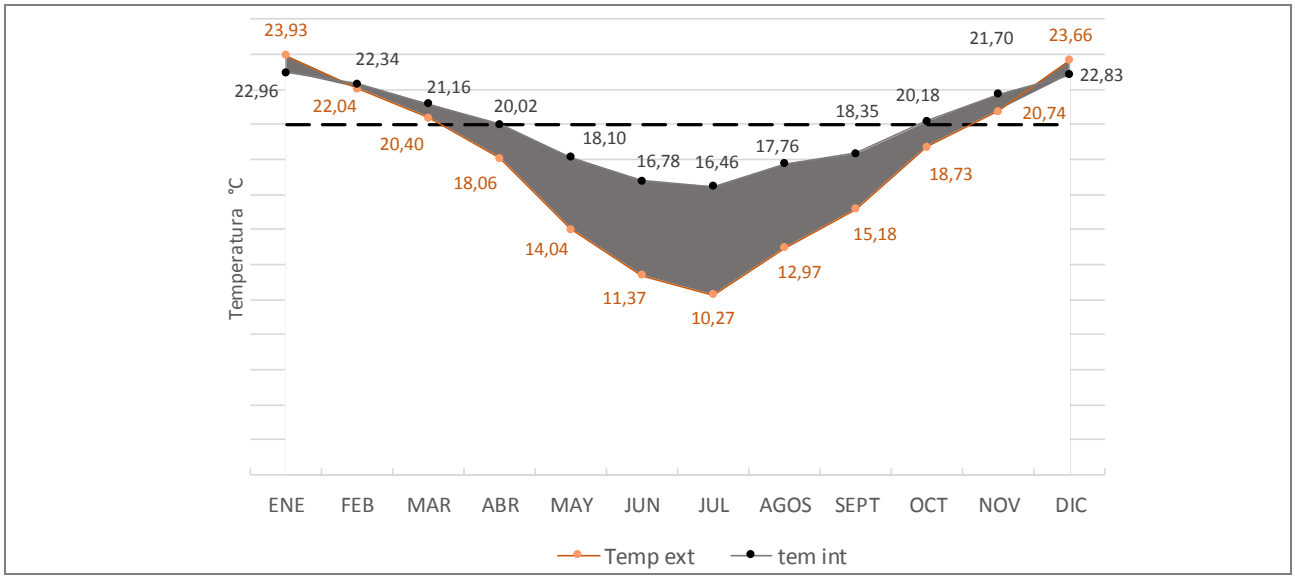
| HOR-023 | CU | HORMIGON |
|---|---|---|

## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,51** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,86** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS




**4,97**

0 1 2 3 4 5 6 7 8

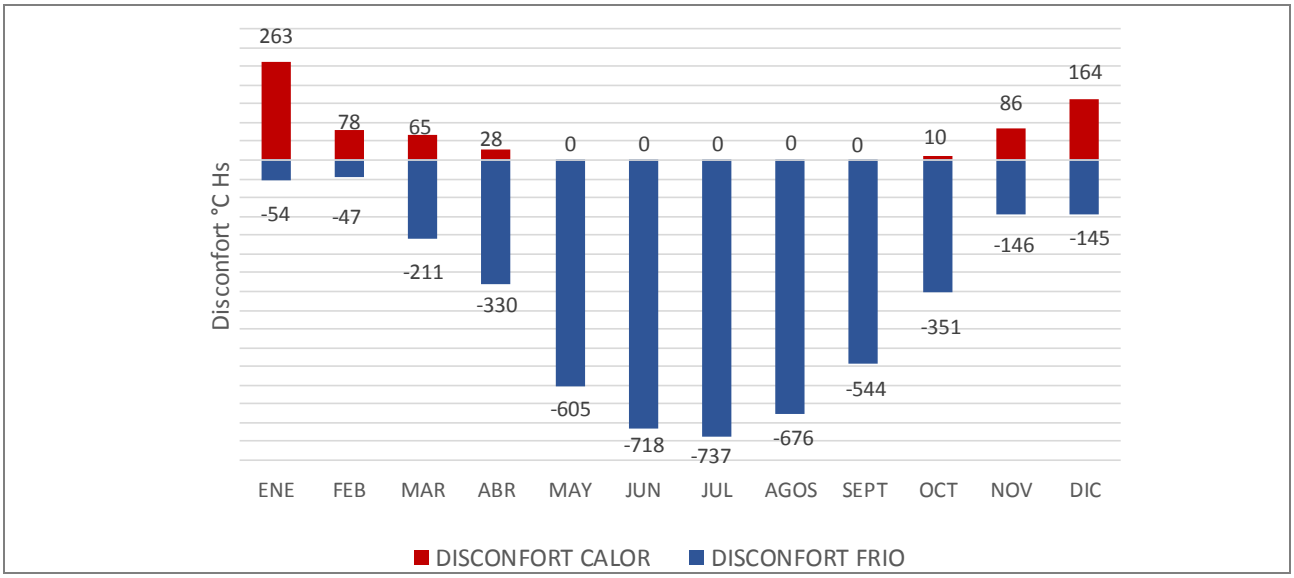
G | F | E | D | **C** | B | A | A+

4,97 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| HOR-022 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

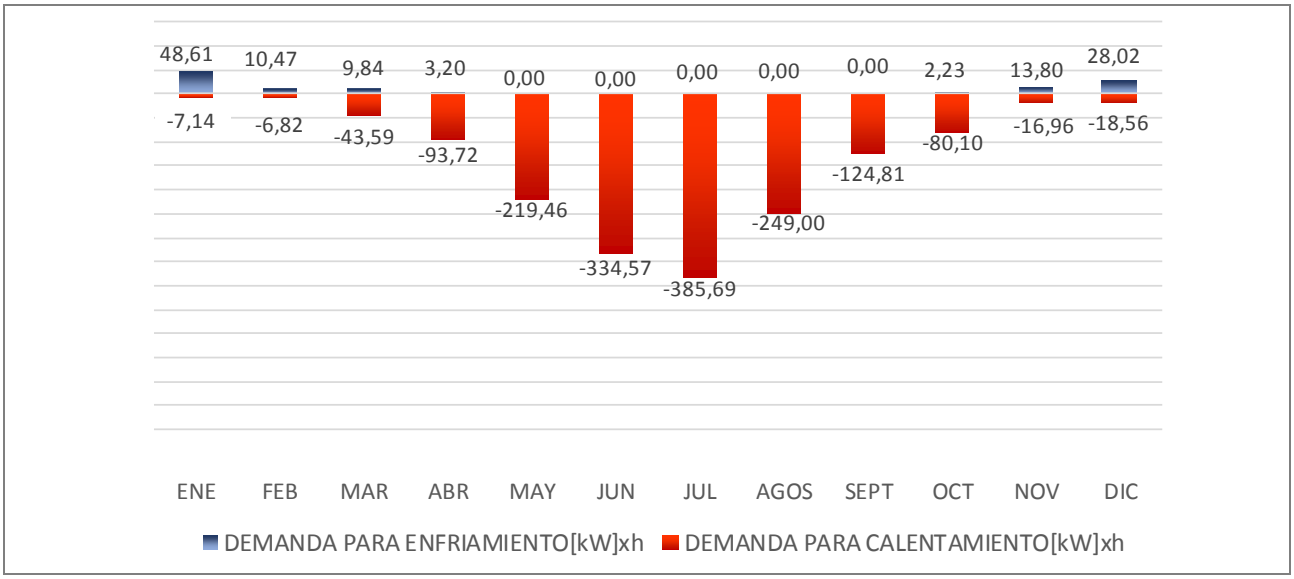
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **693** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.563** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.256** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

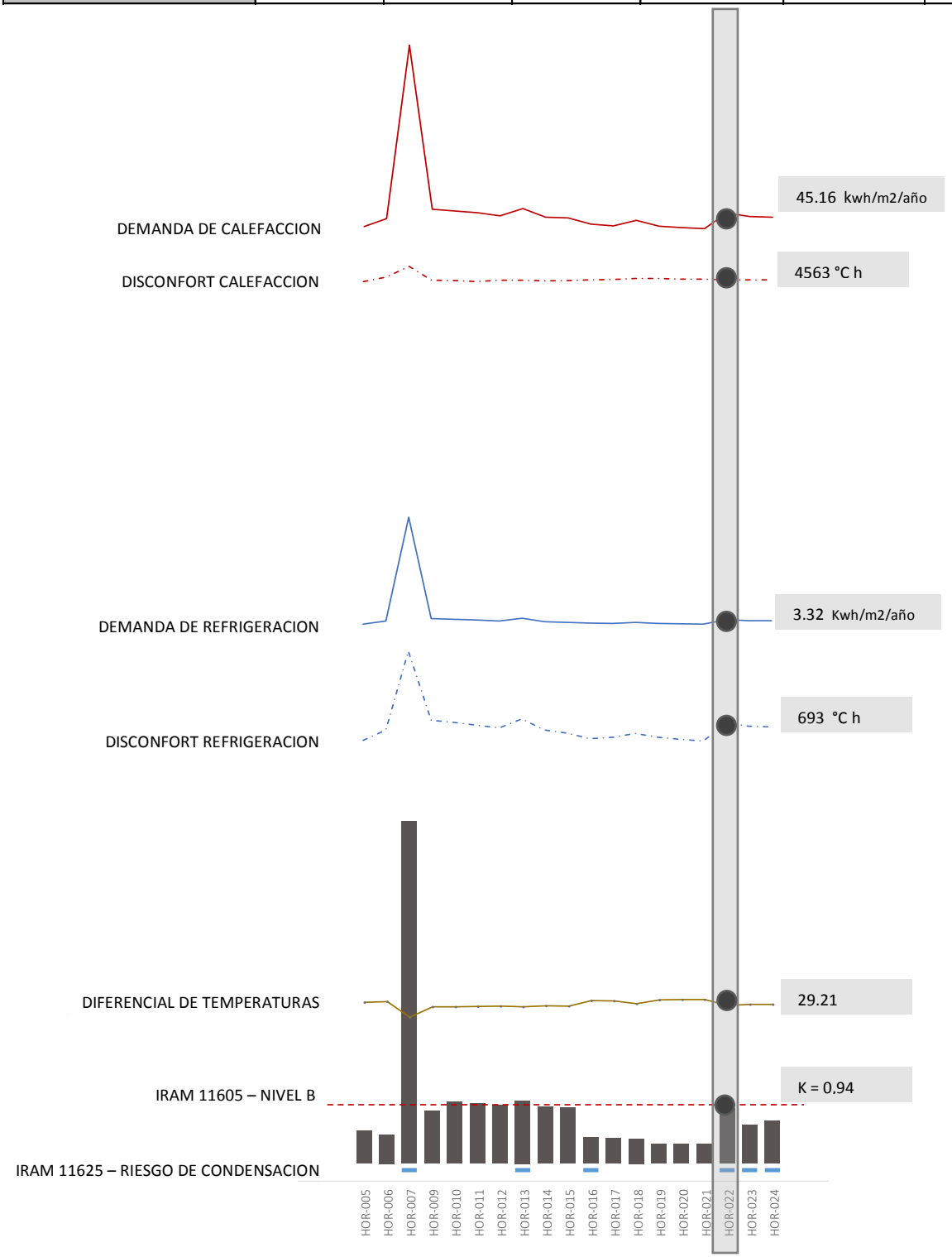



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **116,18** | kWh | 3,32 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.580,43** | kWh | 45,16 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.696,61** | kWh | **48,47** | kWh/m2/año |

| HOR-022 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 093 | N° 090 | N° 093 | N° 090 | N° 052 | N° 098 |



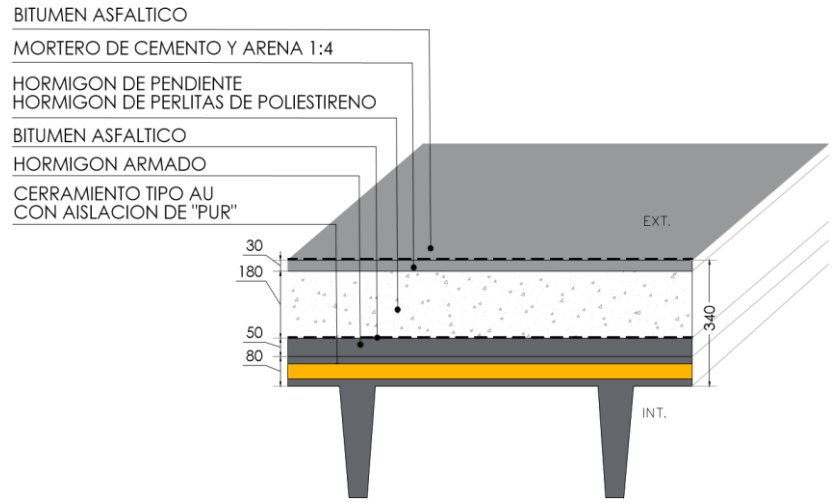

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,94 | 100% | 29,21 | 45,16 | 3,32 | 4563 | 693 |
| INC. FAMILIA | 96,71% | 0% | 99,52% | 97,30% | 72,26% | 104,76% | 108,48% |
| INC. MUNDIAL | 115,48% | 0% | 98,35% | 101,53% | 80,71% | 100,05% | 109,71% |

| HOR-023 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA NERVURADA TIPO AU PREMOLDEADA DE HORMIGON CON AISLACION DE PLANCHA DE PUR (TIPO ASTORI).

## INDICE DE TRANSMITANCIA TERMICA "K"

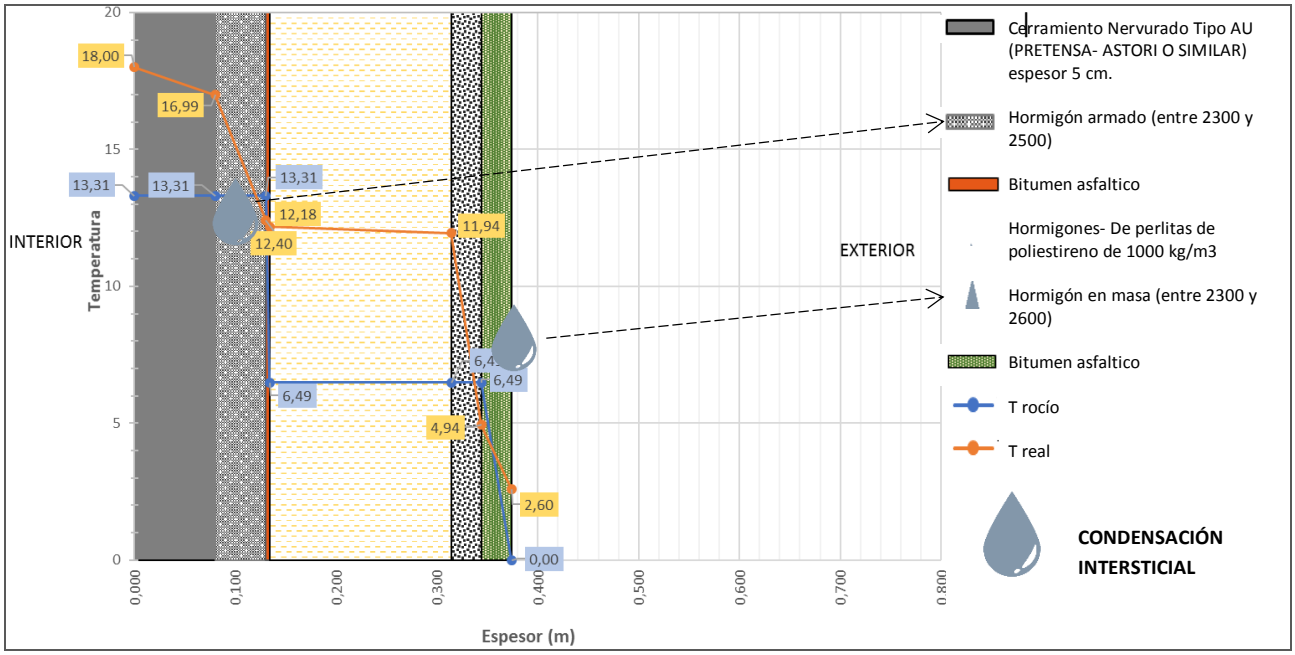
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,63 | 0,66 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



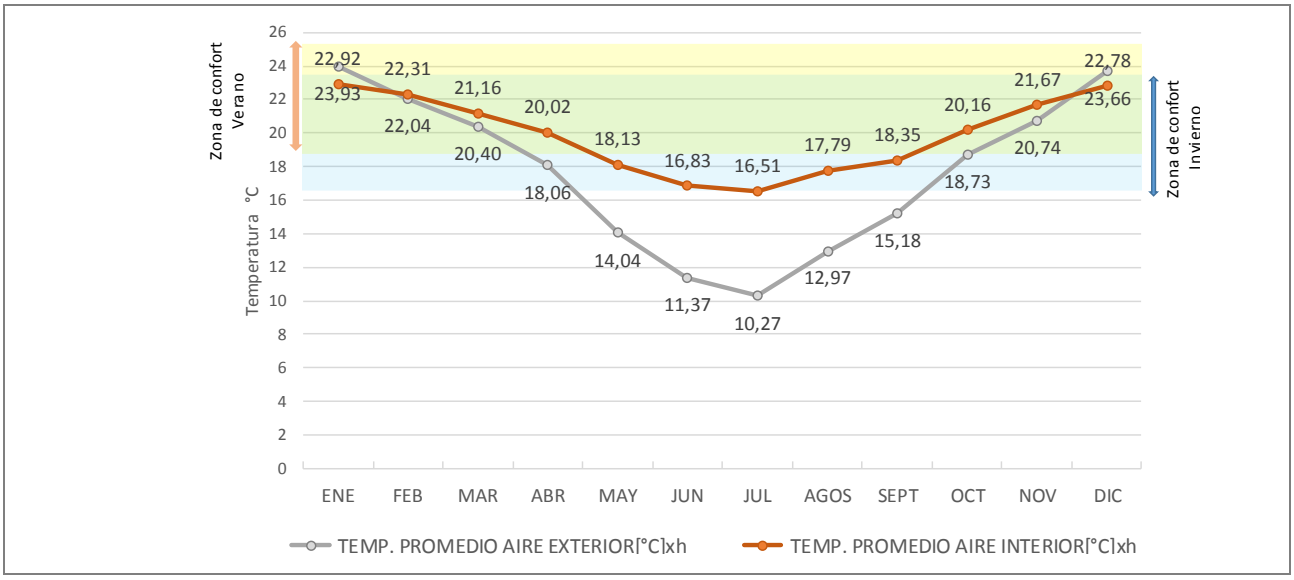

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 86,0 | 78,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **17,7** | **16,9** |
| | **Amortiguamiento:** | 0,001 | 0,002 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **14,6** | **10,8** |
| | **Amortiguamiento:** | 0,022 | 0,059 |

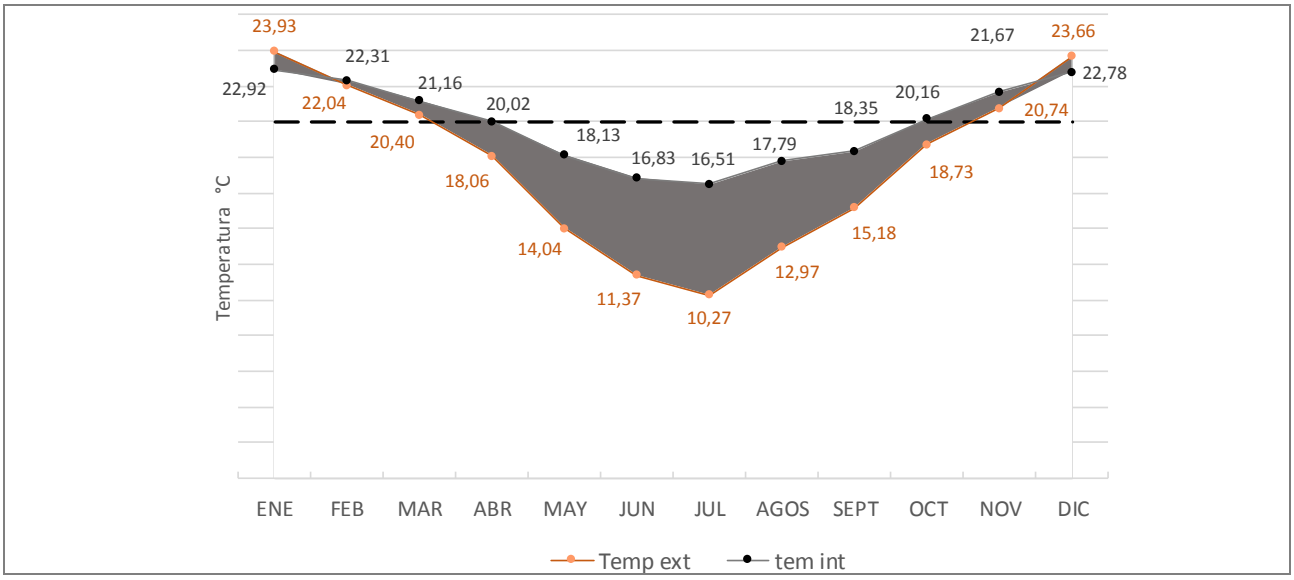
| HOR-023 | CU | HORMIGON |
|---|---|---|

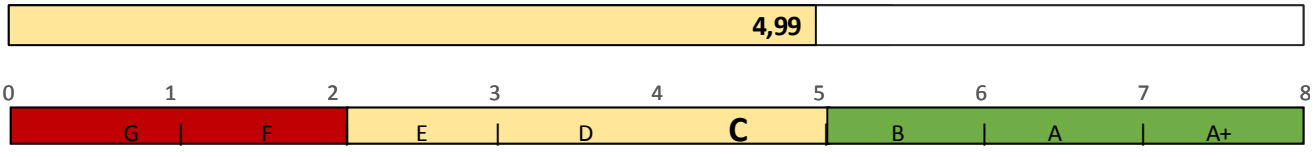
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,36** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,98** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



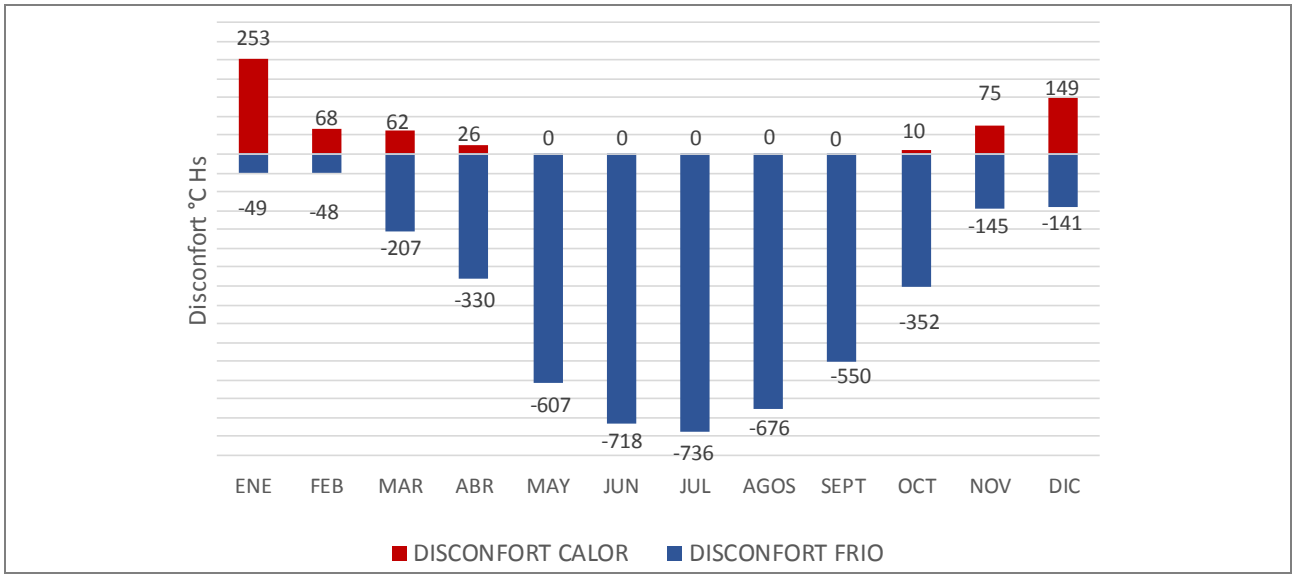




4,99 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| HOR-023 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

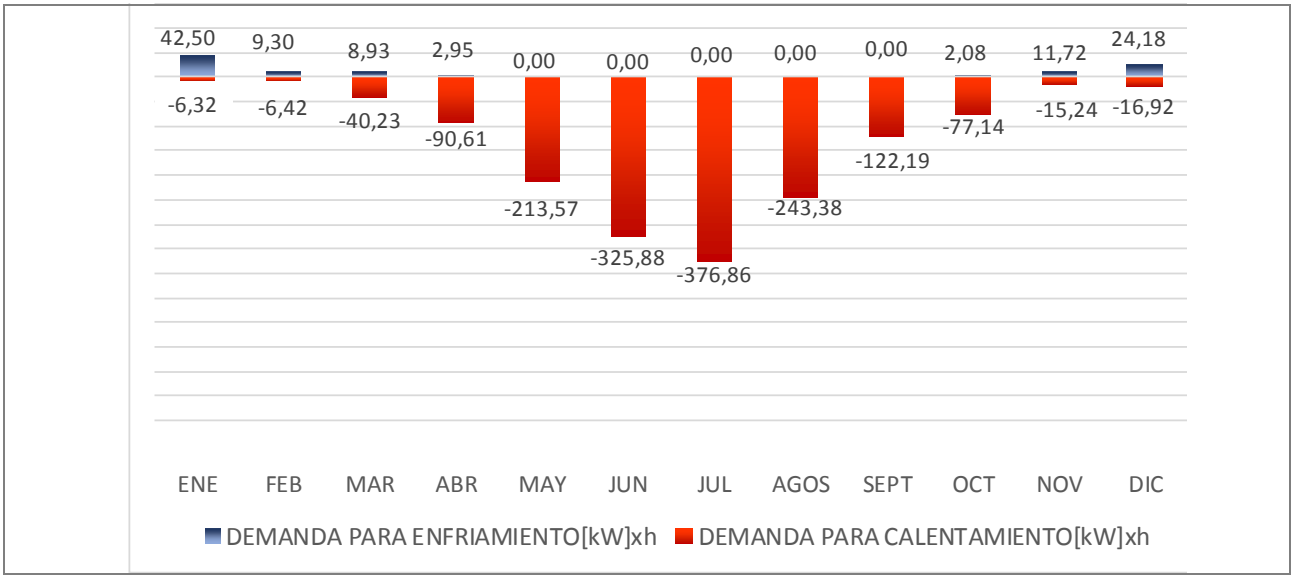
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **642** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.559** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.202** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

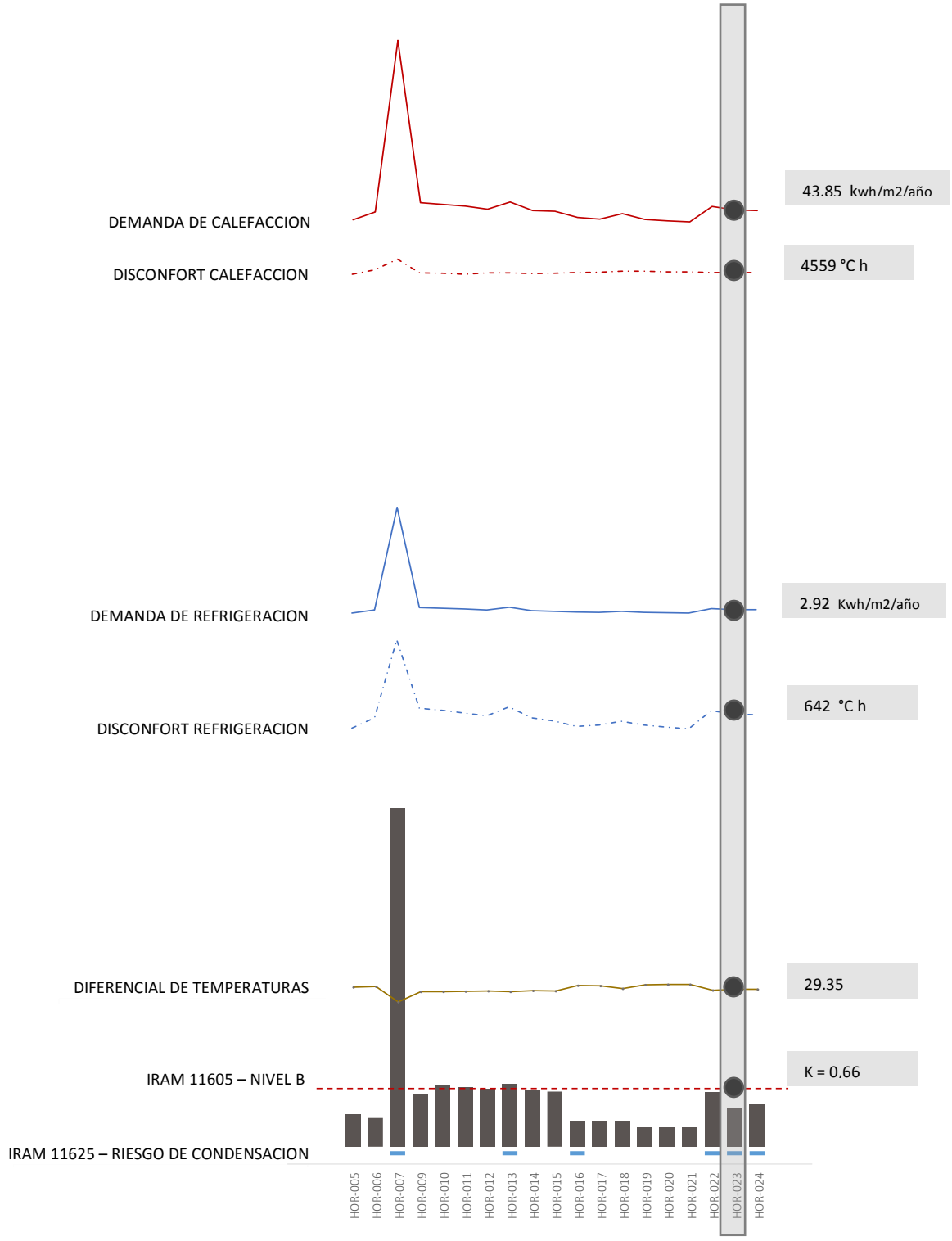



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **101,66** | kWh | 2,90 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.534,76** | kWh | 43,85 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.636,42** | kWh | **46,75** | kWh/m2/año |

| HOR-023 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 079 | N° 085 | N° 076 | N° 073 | N° 048 | N° 087 |



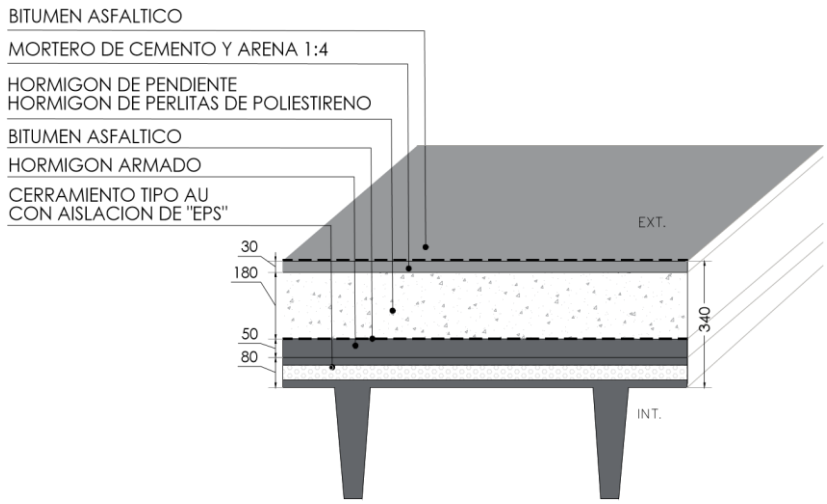

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,66 | 100% | 29,35 | 43,85 | 2,9 | 4559 | 642 |
| INC. FAMILIA | 67,88% | 0% | 99,99% | 94,47% | 63,12% | 104,67% | 100,49% |
| INC. MUNDIAL | 81,06% | 0% | 98,82% | 98,59% | 70,50% | 99,96% | 101,64% |

| HOR-024 | CU | HORMIGON |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSA NERVURADA TIPO AU PREMOLDEADA DE HORMIGON CON AISLACION DE PLANCHA DE EPS (TIPO ASTORI).

## INDICE DE TRANSMITANCIA TERMICA "K"

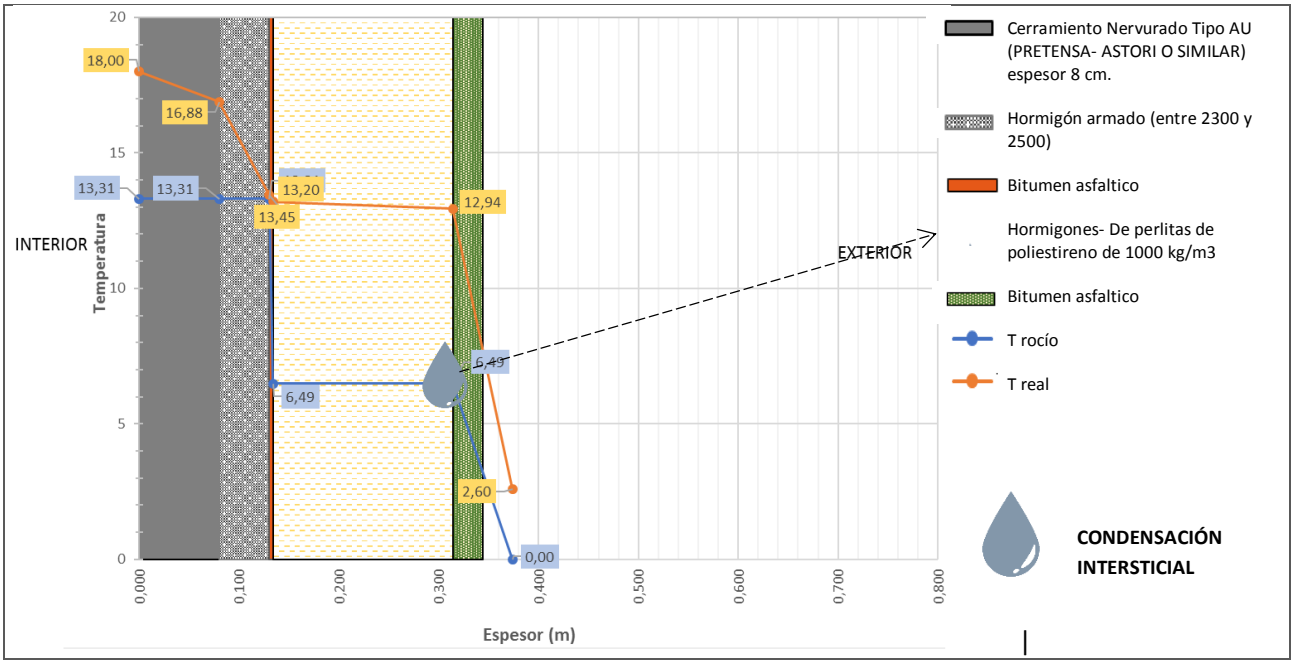
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,69 | 0,73 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



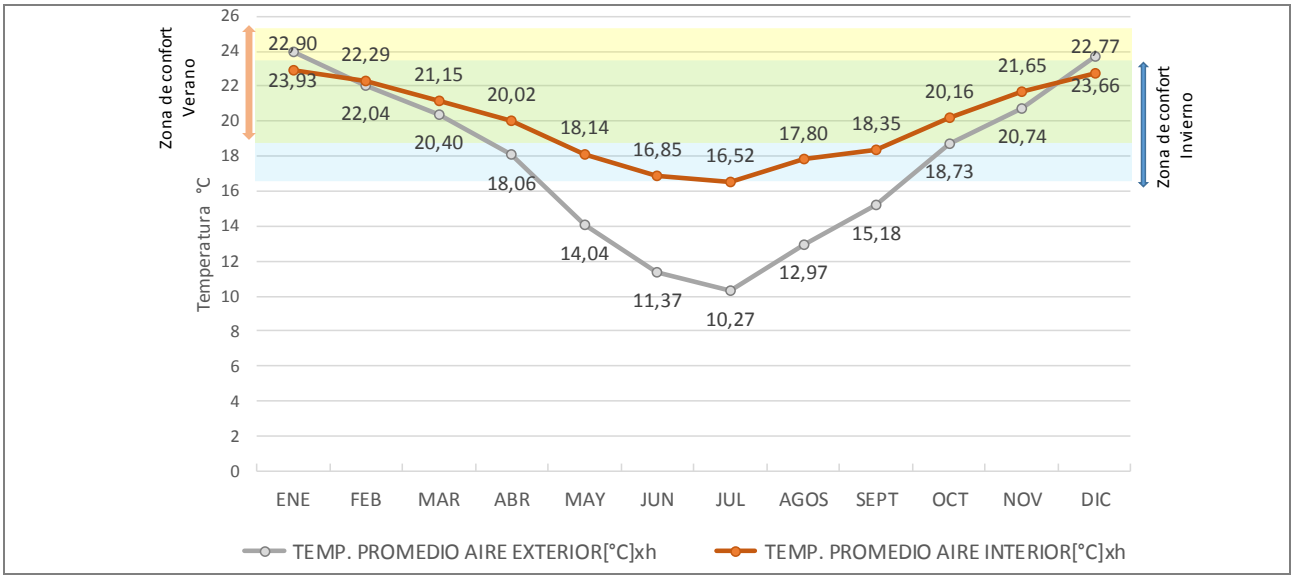

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 96,2 | 87,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **16,8** | **16,0** |
| | **Amortiguamiento:** | 0,002 | 0,003 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **13,5** | **10,8** |
| | **Amortiguamiento:** | 0,029 | 0,059 |

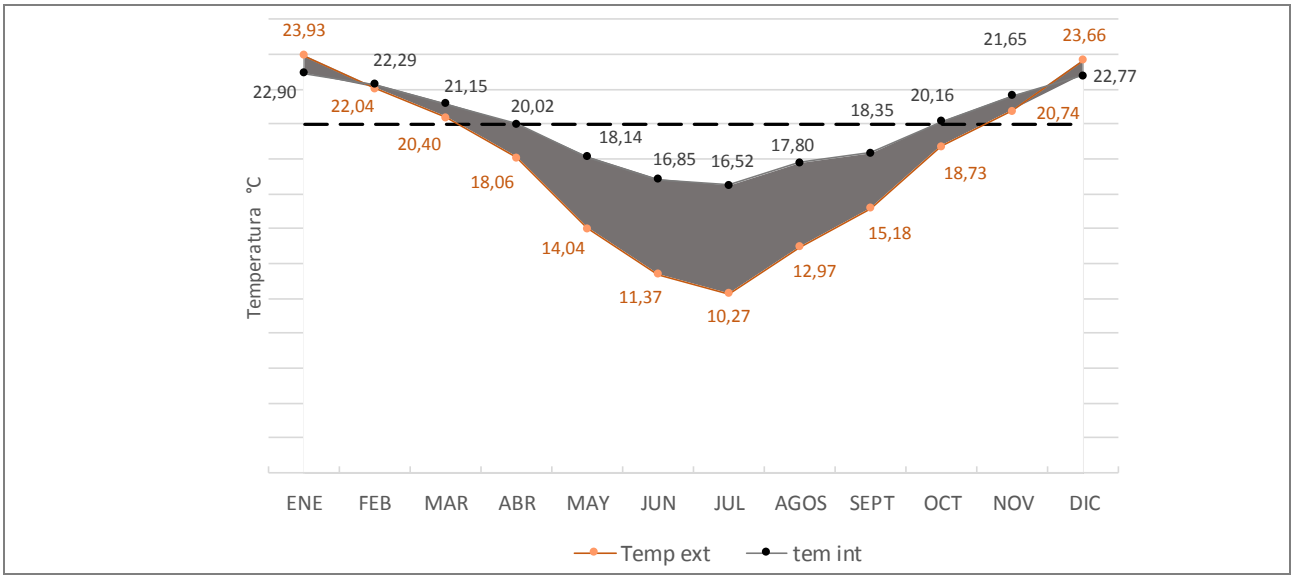
| HOR-024 | CU | HORMIGON |
|---|---|---|

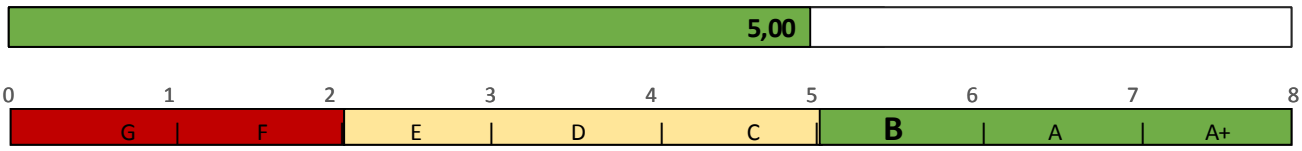
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,33** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,01** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



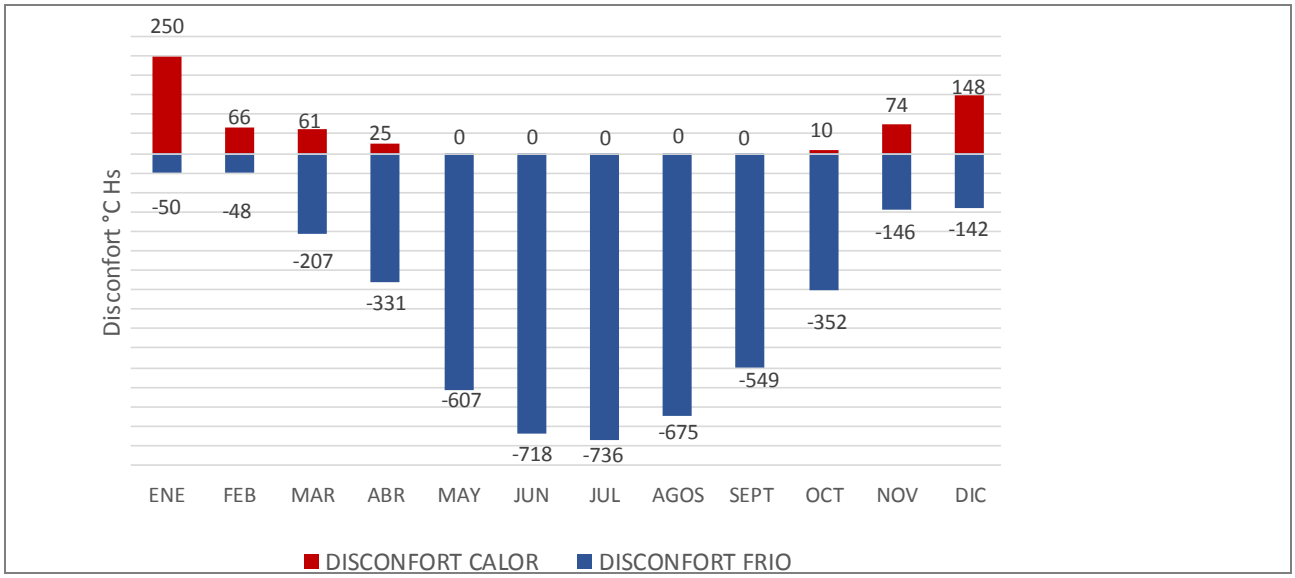




5,00 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| HOR-024 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

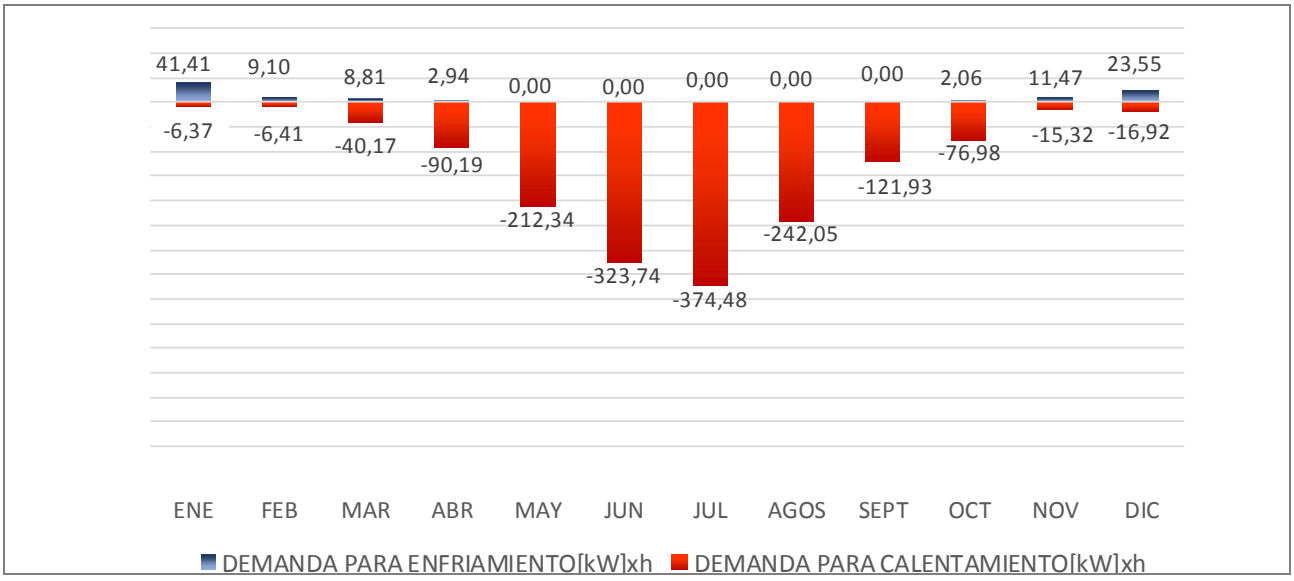
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **633** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.561** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.194** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

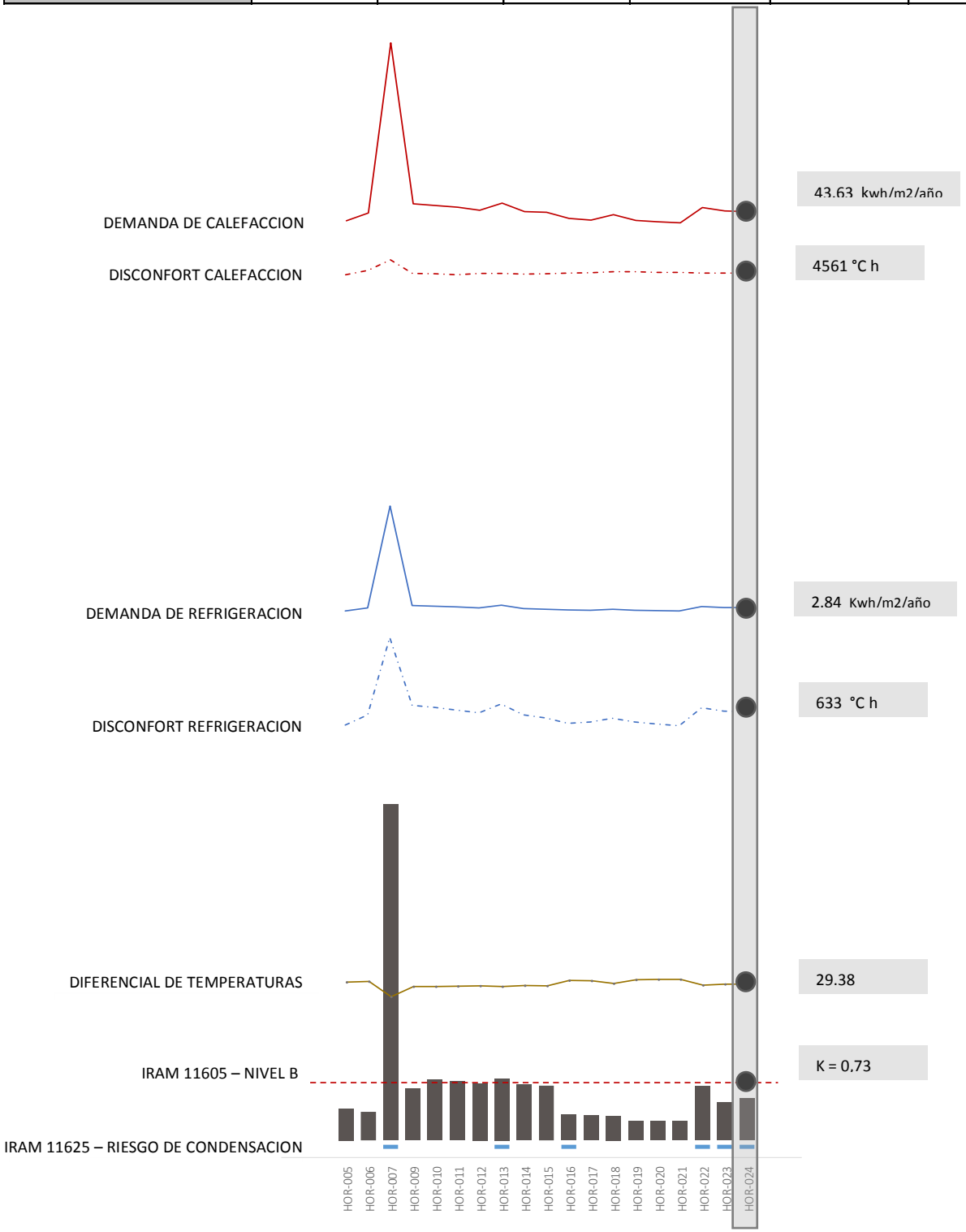



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **99,33** | kWh | 2,84 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.526,89** | kWh | 43,63 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.626,22** | kWh | **46,46** | kWh/m2/año |

| HOR-024 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 085 | N° 083 | N° 075 | N° 066 | N° 050 | N° 079 |



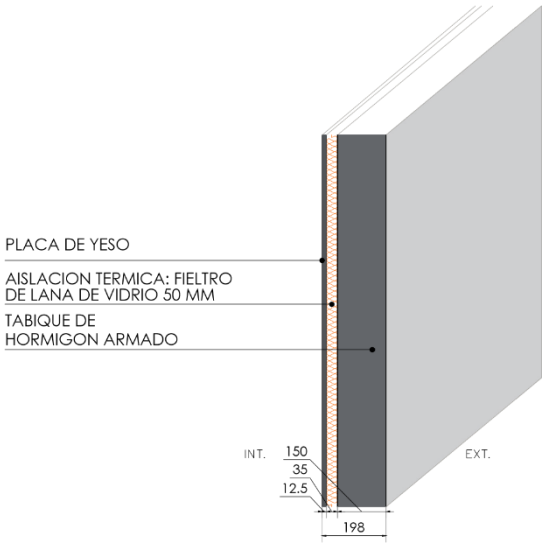

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,97 | 32% | 29,35 | 46,42 | 4,59 | 4356 | 639 |
| INDIVIDUAL | 0,73 | 100% | 29,38 | 43,63 | 2,84 | 4561 | 633 |
| INC. FAMILIA | 75,13% | 0% | 100,10% | 94,00% | 61,81% | 104,72% | 99,09% |
| INC. MUNDIAL | 89,72% | 208% | 98,92% | 98,09% | 69,04% | 100,00% | 100,21% |

| HOR-025 | MU | HORMIGON |
|---|---|---|

TABIQUE DE HORMIGON COLADO IN SITU ESPESOR 15 CM-TERMINACION A LA VISTA EN CARA EXTERIOR-AISLACION LANA DE VIDRIO 50MM+ TERMINACION PLACA DE DURLOCK.

## INDICE DE TRANSMITANCIA TERMICA "K"

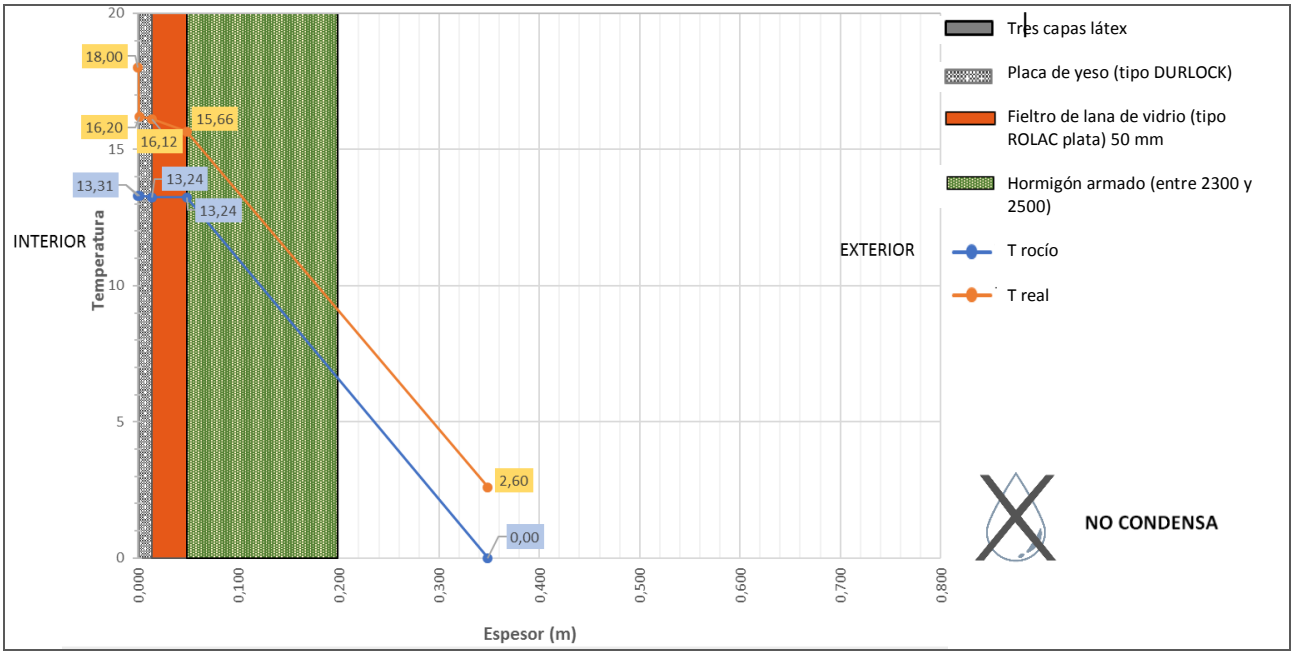
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,90 | 0,90 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



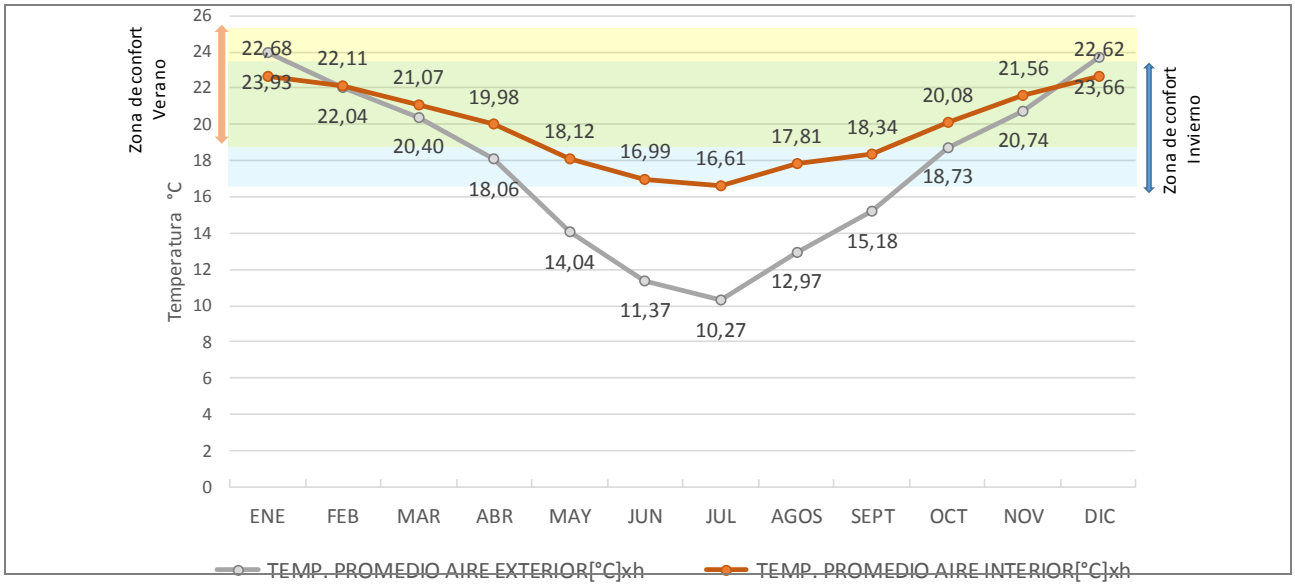

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 94,1 | Invierno 3,2 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,7** | **2,3** |
| | **Amortiguamiento:** | 0,009 | 0,419 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,5** | **4,0** |
| | **Amortiguamiento:** | 0,038 | 0,352 |

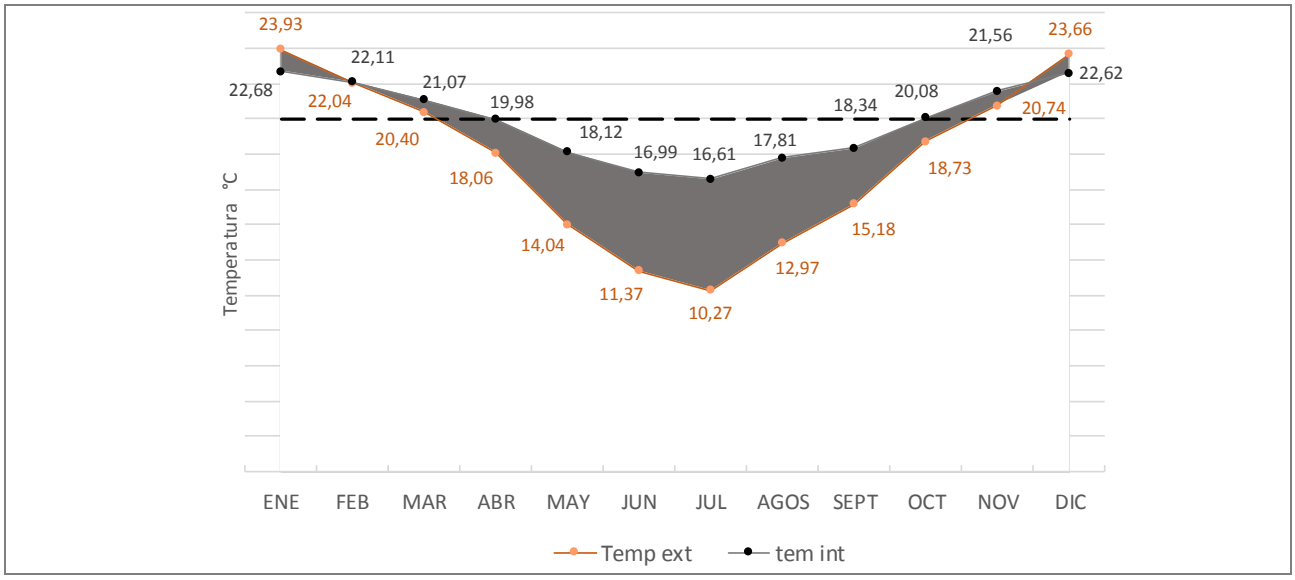
| HOR-025 | CU | HORMIGON |
|---|---|---|

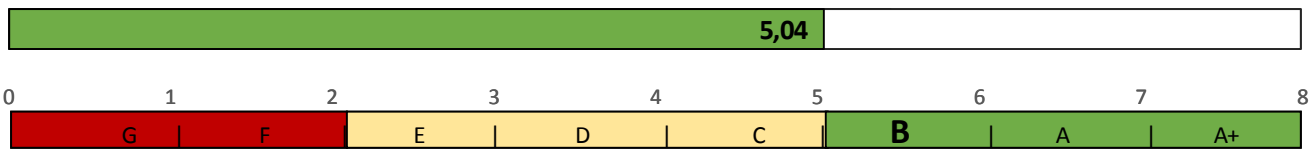
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,37** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **13,18** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



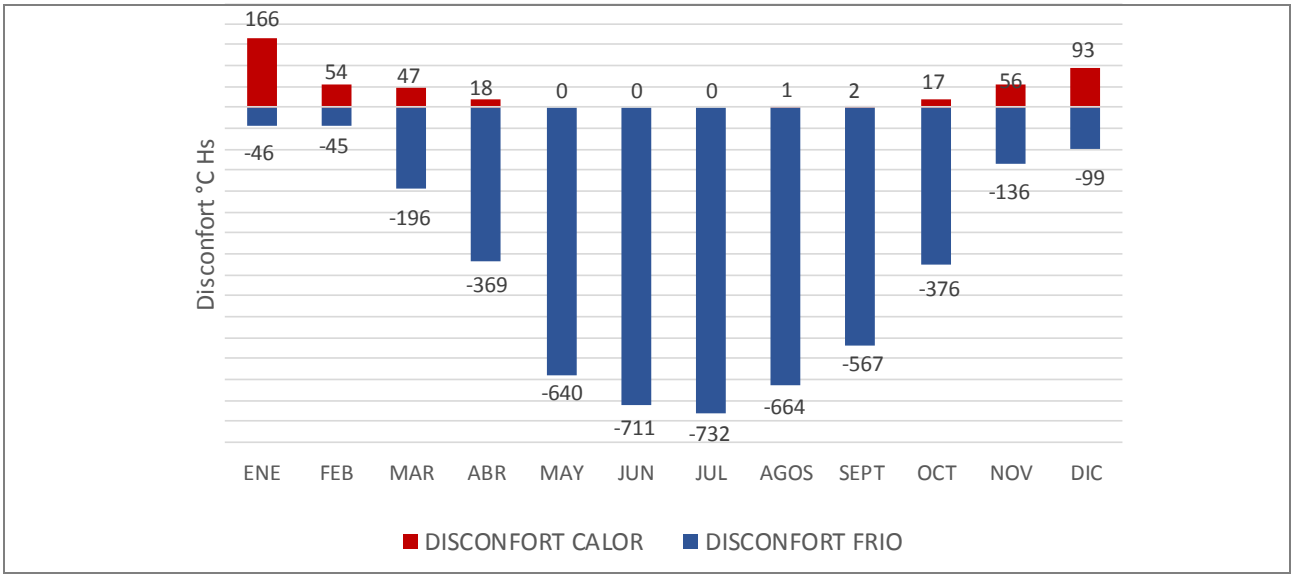




5,04 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| HOR-025 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

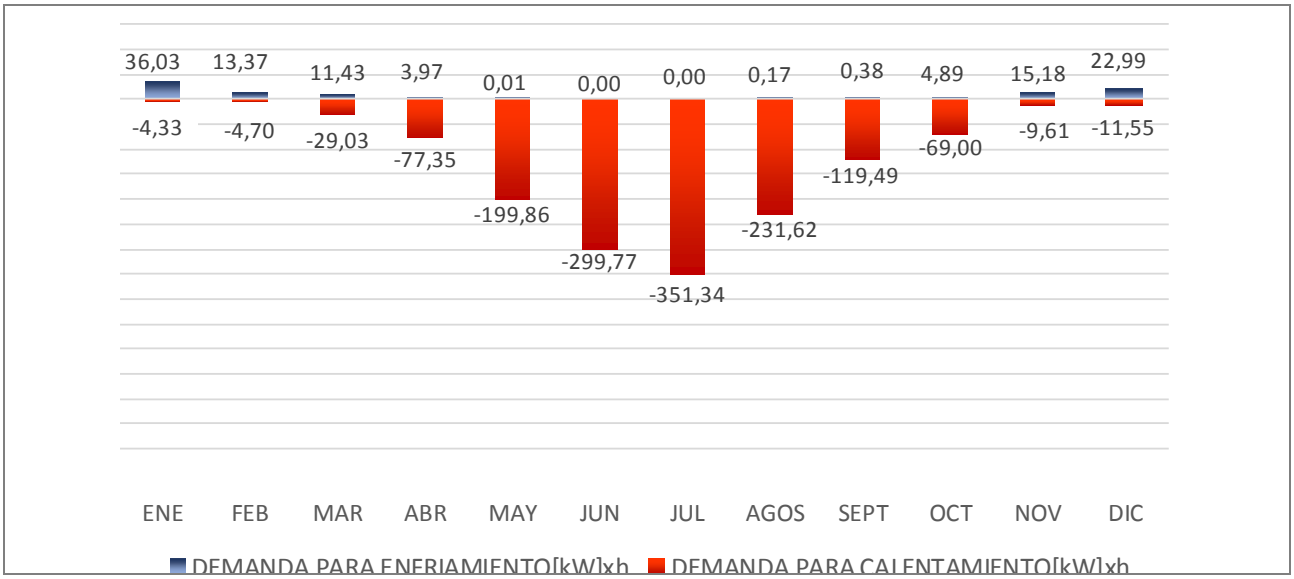
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **453** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.582** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.035** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

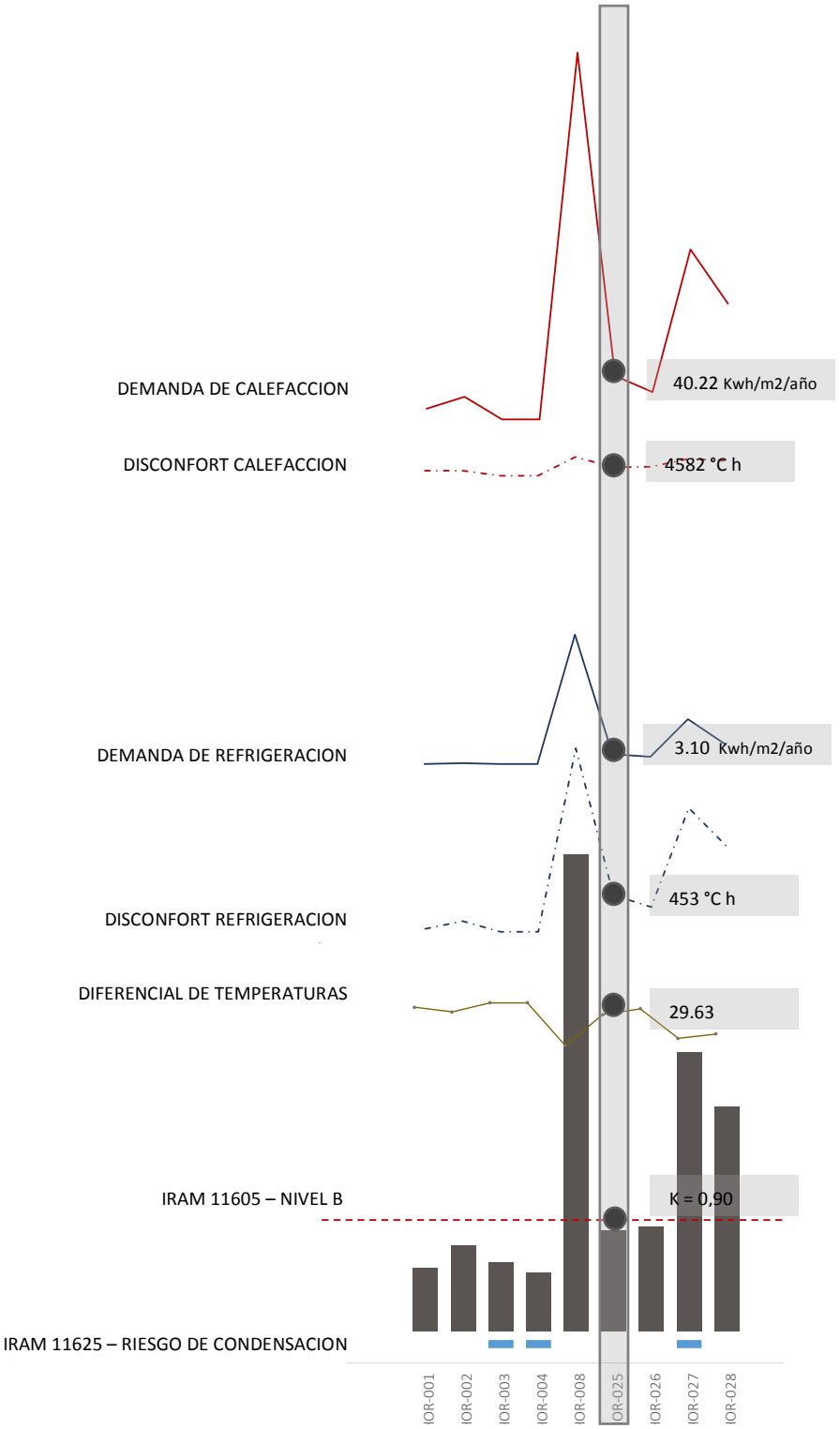



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **108,41** | kWh | 3,10 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.407,66** | kWh | 40,22 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.516,07** | kWh | **43,32** | kWh/m2/año |

| HOR-025 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 166 | N° 169 | N° 170 | N° 169 | N° 138 | N°170 |



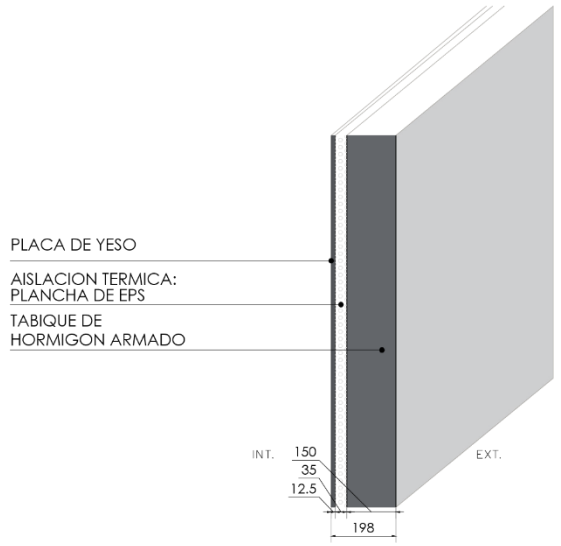

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,45 | 33% | 29,28 | 47,97 | 5,74 | 4583 | 570 |
| INDIVIDUAL | 0,90 | | 29,63 | 40,22 | 3,1 | 4582 | 453 |
| INC. FAMILIA | 61,89% | 0,00% | 101,20% | 83,85% | 54,03% | 99,99% | 79,52% |
| INC. MUNDIAL | 75,44% | 0,00% | 96,16% | 97,80% | 51,65% | 102,70% | 88,62% |

| HOR-026 | MU | HORMIGON |
|---|---|---|

TABIQUE DE HORMIGON COLADO IN SITU ESPESOR 15 CM-TERMINACION A LA VISTA EN CARA EXTERIOR- AISLACION DE PLANCHA EPS (15) + TERMINACION PLACA DE DURLOCK.

## INDICE DE TRANSMITANCIA TERMICA "K"

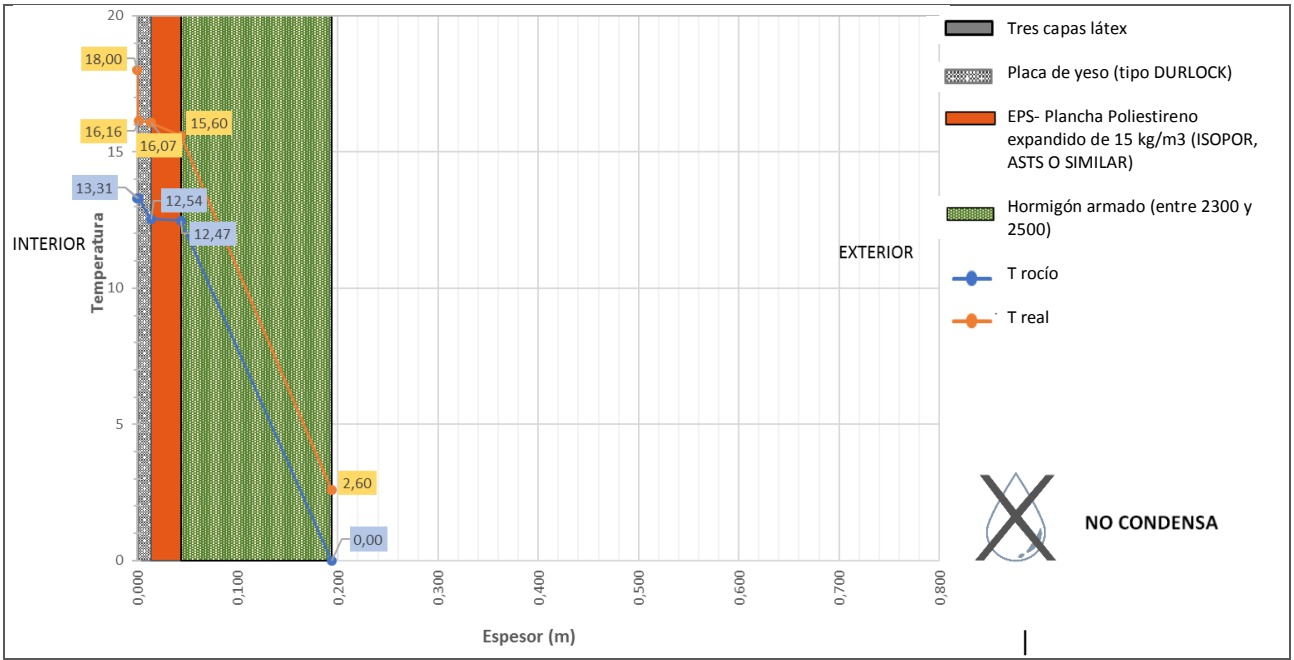
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,92 | 0,92 |
|---|---|
| **verifica verano** | **verifica invierno** |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



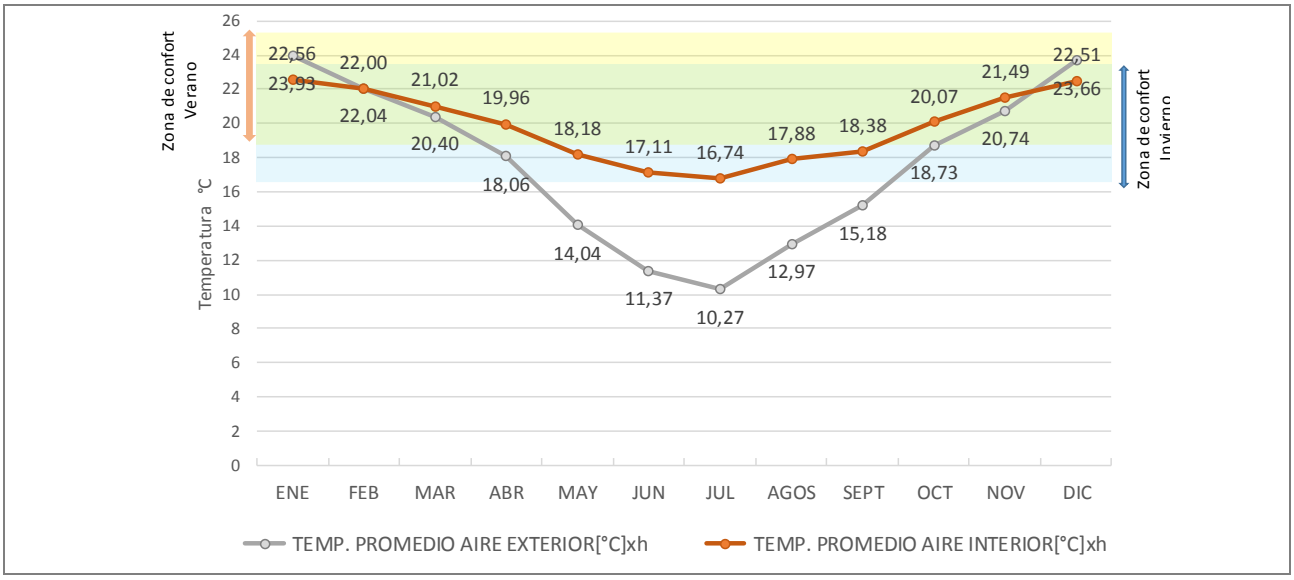

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 97,1 | Invierno 3,3 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,5** | **2,3** |
| | **Amortiguamiento:** | 0,010 | 0,425 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,3** | **4,0** |
| | **Amortiguamiento:** | 0,040 | 0,354 |

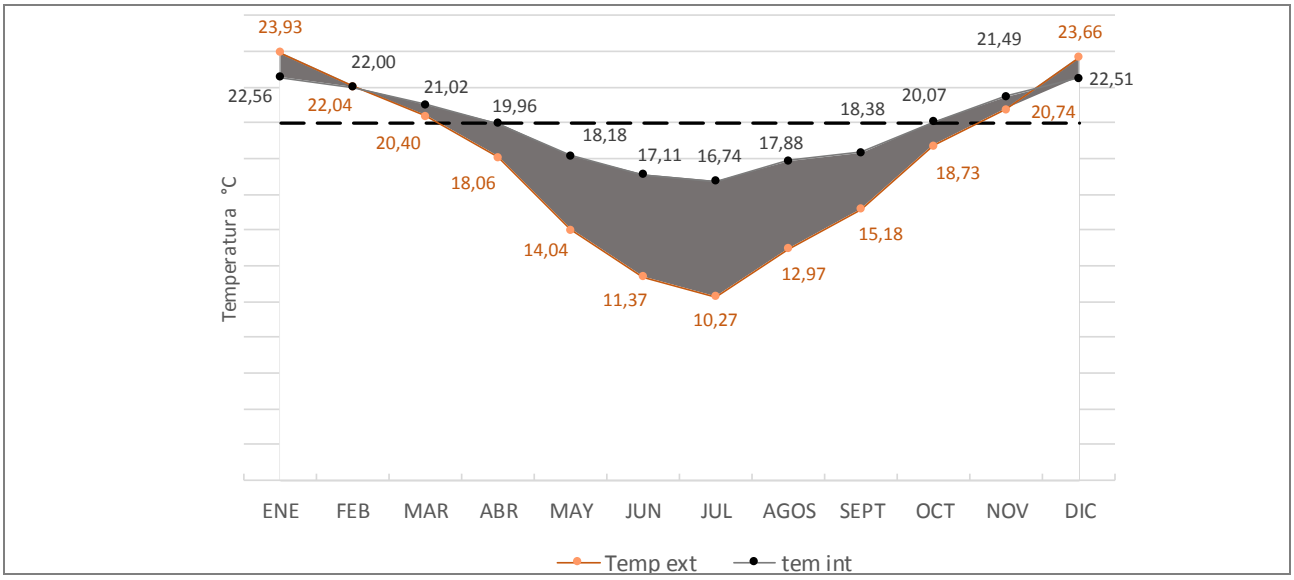
| HOR-026 | MU | HORMIGON |
|---|---|---|

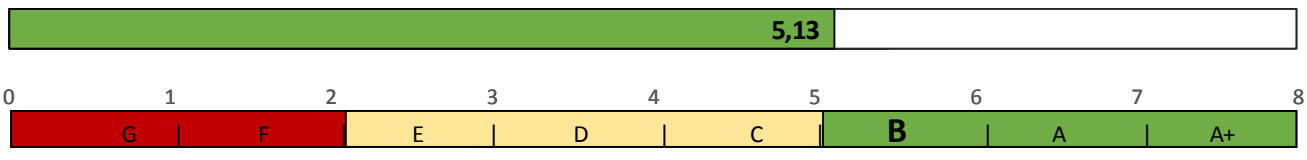
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,04** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **13,58** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



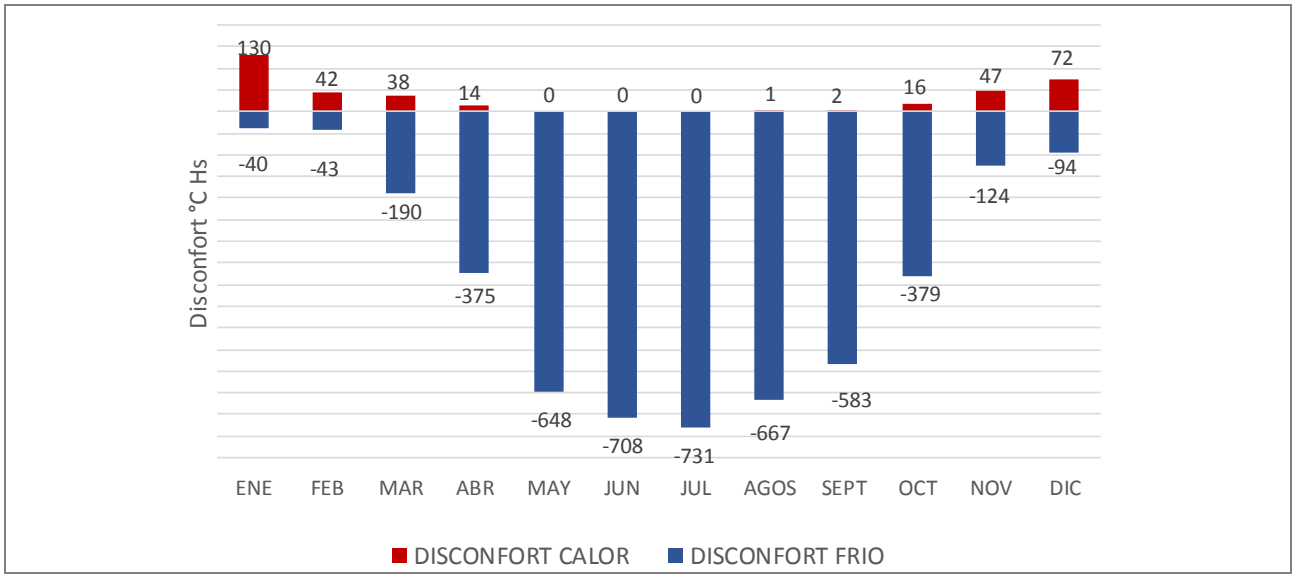




5,13 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| HOR-026 | MU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

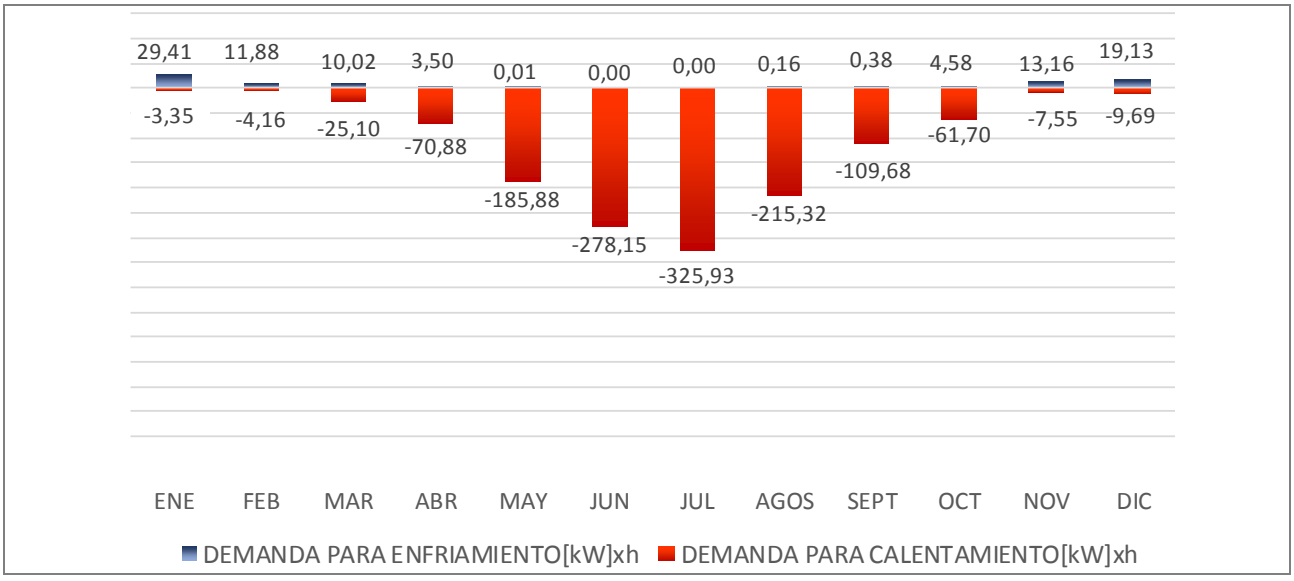
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **362** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.583** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.945** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

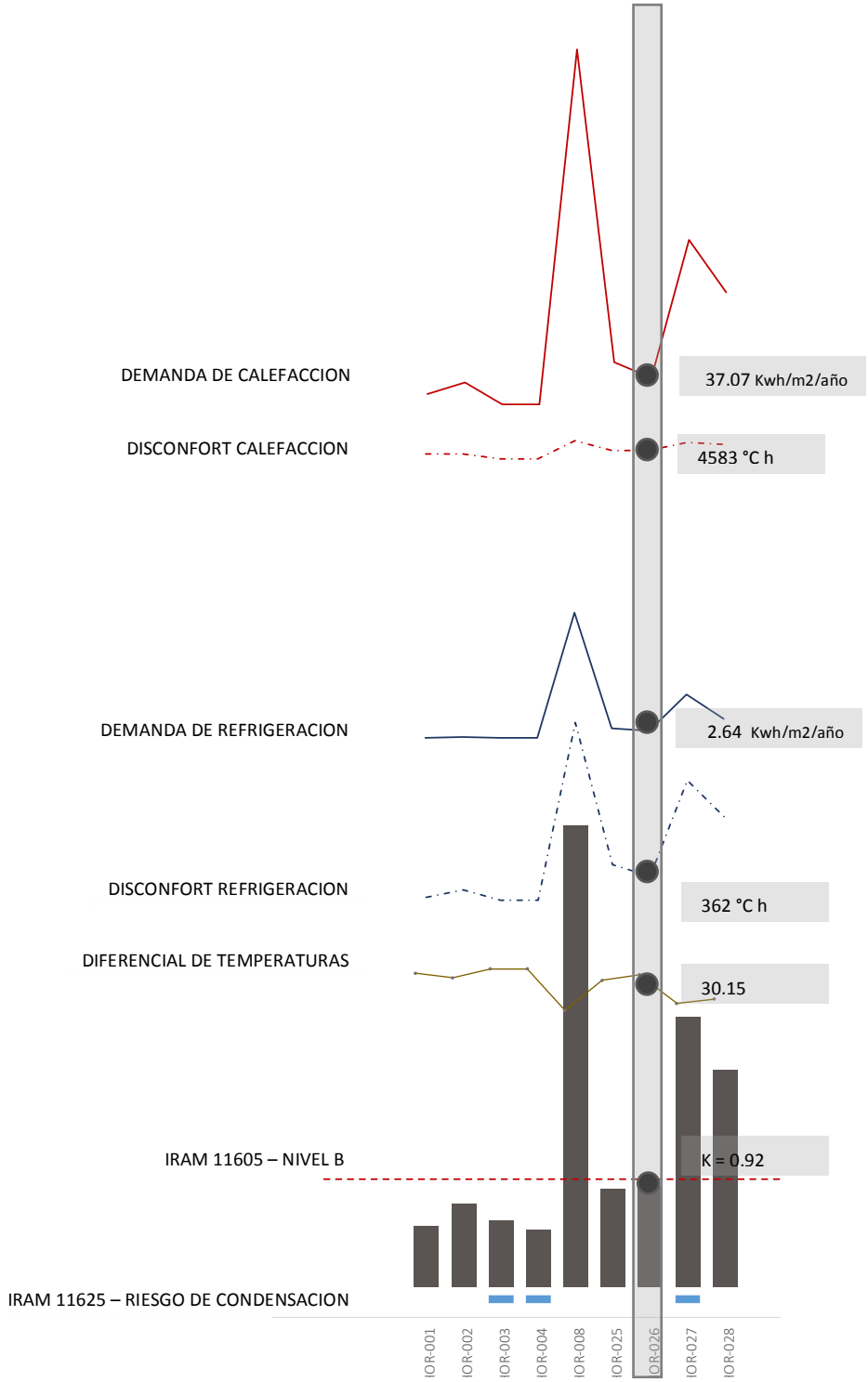



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **92,24** | kWh | 2,64 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.297,39** | kWh | 37,07 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.389,63** | kWh | **39,70** | kWh/m2/año |

| HOR-026 | MU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 167 | N° 164 | N° 160 | N° 159 | N° 140 | N° 159 |



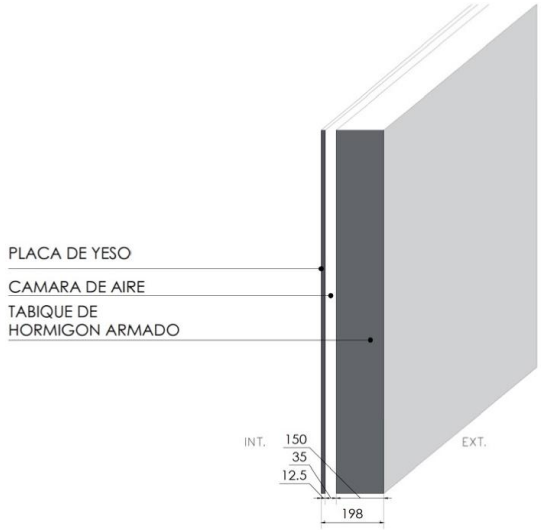

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,45 | 33% | 29,28 | 47,97 | 5,74 | 4583 | 570 |
| INDIVIDUAL | 0,92 | 100% | 30,15 | 37,07 | 2,64 | 4583 | 362 |
| INC. FAMILIA | 63,57% | 303,03% | 102,97% | 77,28% | 46,01% | 100,01% | 63,55% |
| INC. MUNDIAL | 77,48% | 357,05% | 97,85% | 90,14% | 43,99% | 102,72% | 70,82% |

| HOR-027 | MU | HORMIGON |
|---|---|---|

TABIQUE DE HORMIGON COLADO IN SITU ESPESOR 15 CM-TERMINACION A LA VISTA EN CARA EXTERIOR-CAMARA DE AIRE 35 MM+ TERMINACION PLACA DE DURLOCK.

## INDICE DE TRANSMITANCIA TERMICA "K"

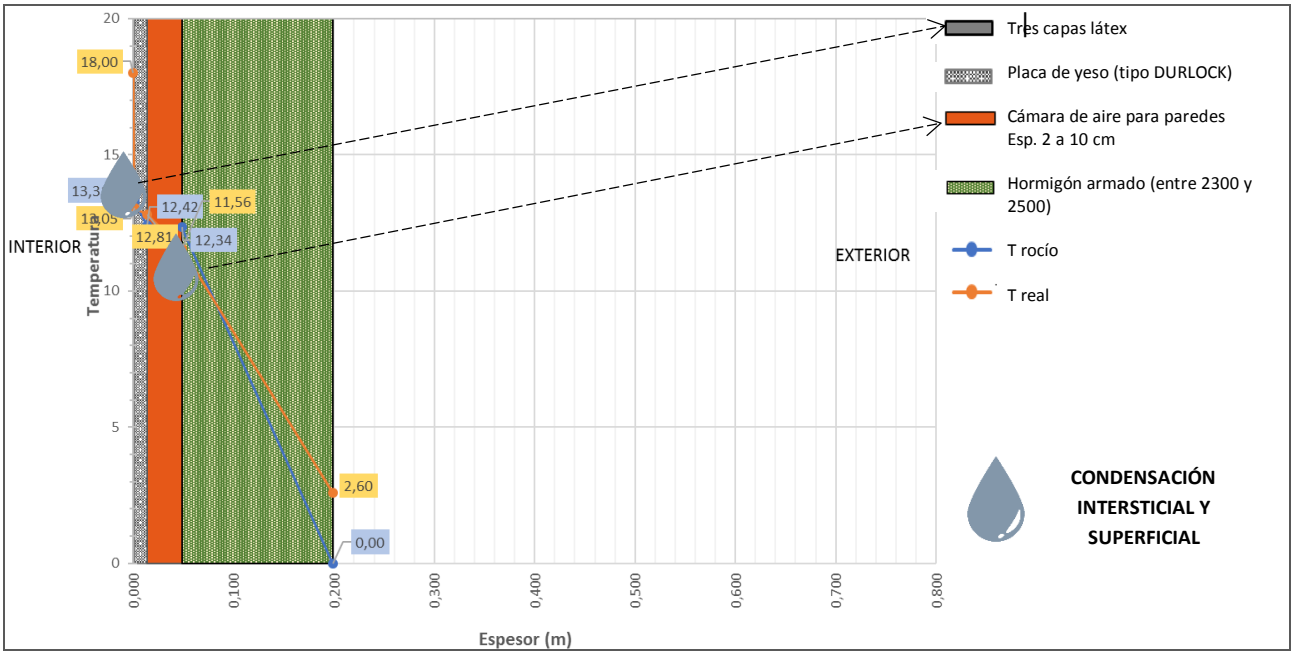
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 2,47 | 2,47 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



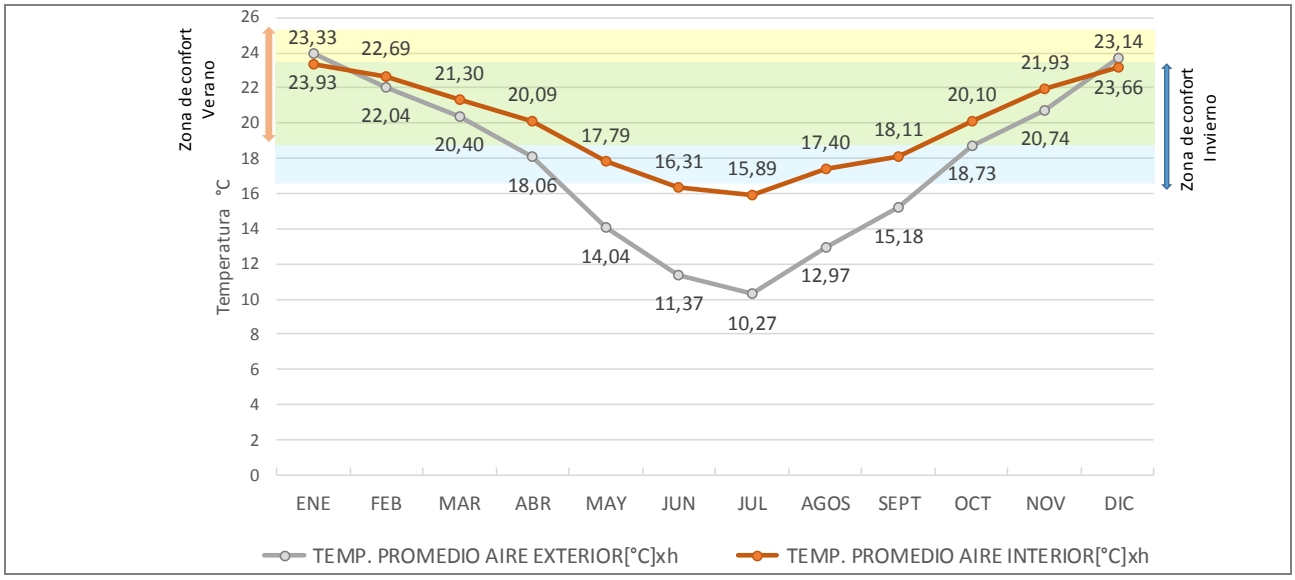

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 379,1 | 97,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,3** | **3,2** |
| | **Amortiguamiento:** | 0,097 | 0,410 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,1** | **3,5** |
| | **Amortiguamiento:** | 0,156 | 0,401 |

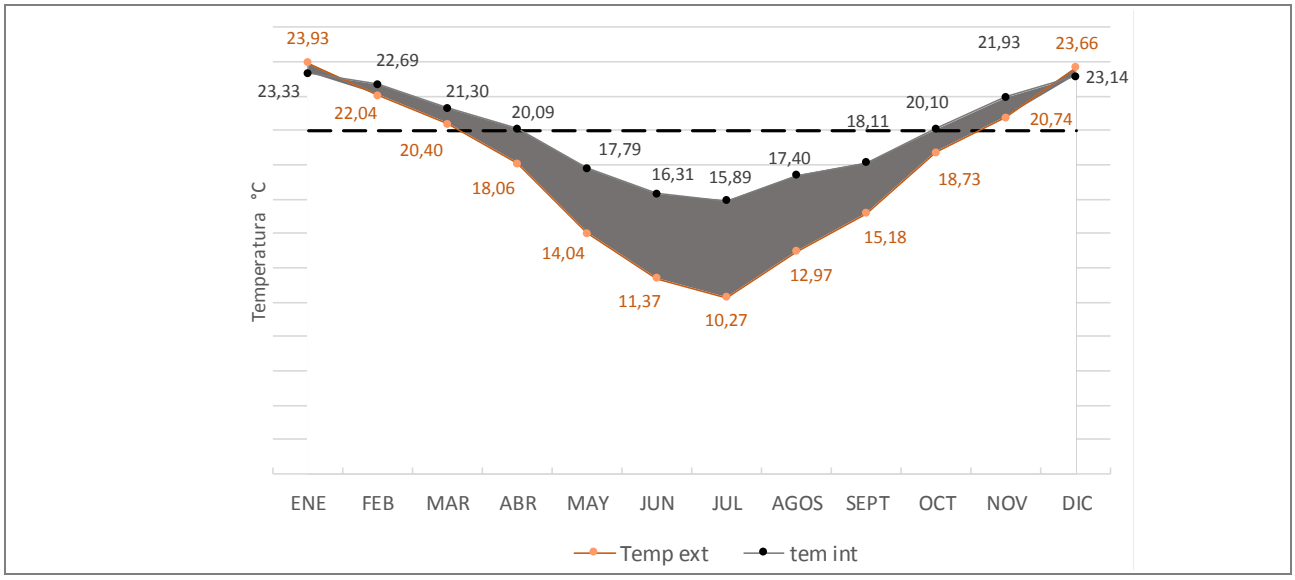
| HOR-027 | CU | HORMIGON |
|---|---|---|

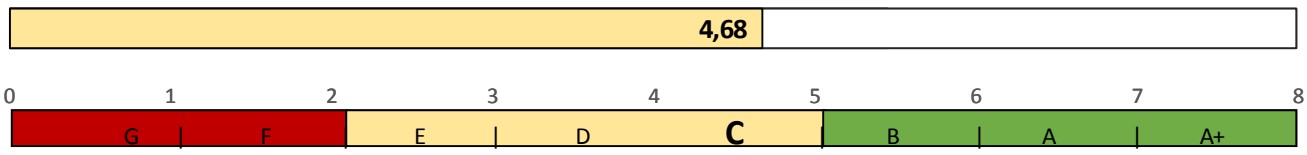
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 19:00 hs | **28,64** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **10,69** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



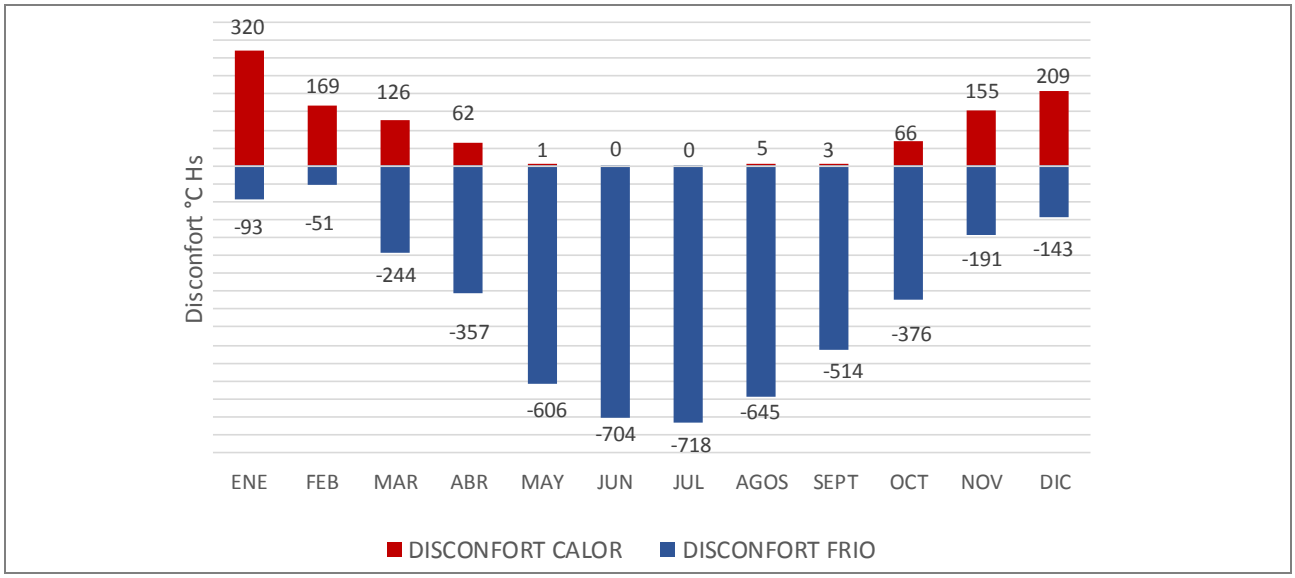




4.68 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.58

| HOR-027 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

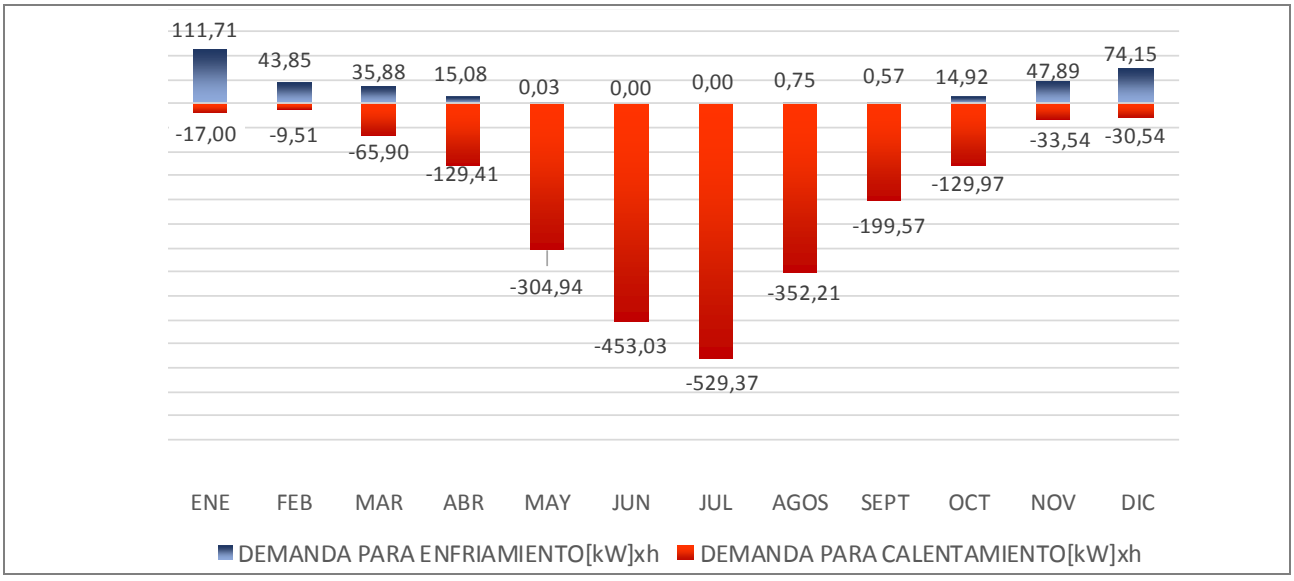
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.117** | °C Hs | 13% |
| HORAS DE DISCONFORT POR FRÍO | **4.642** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.758** | **°C Hs** | **66%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

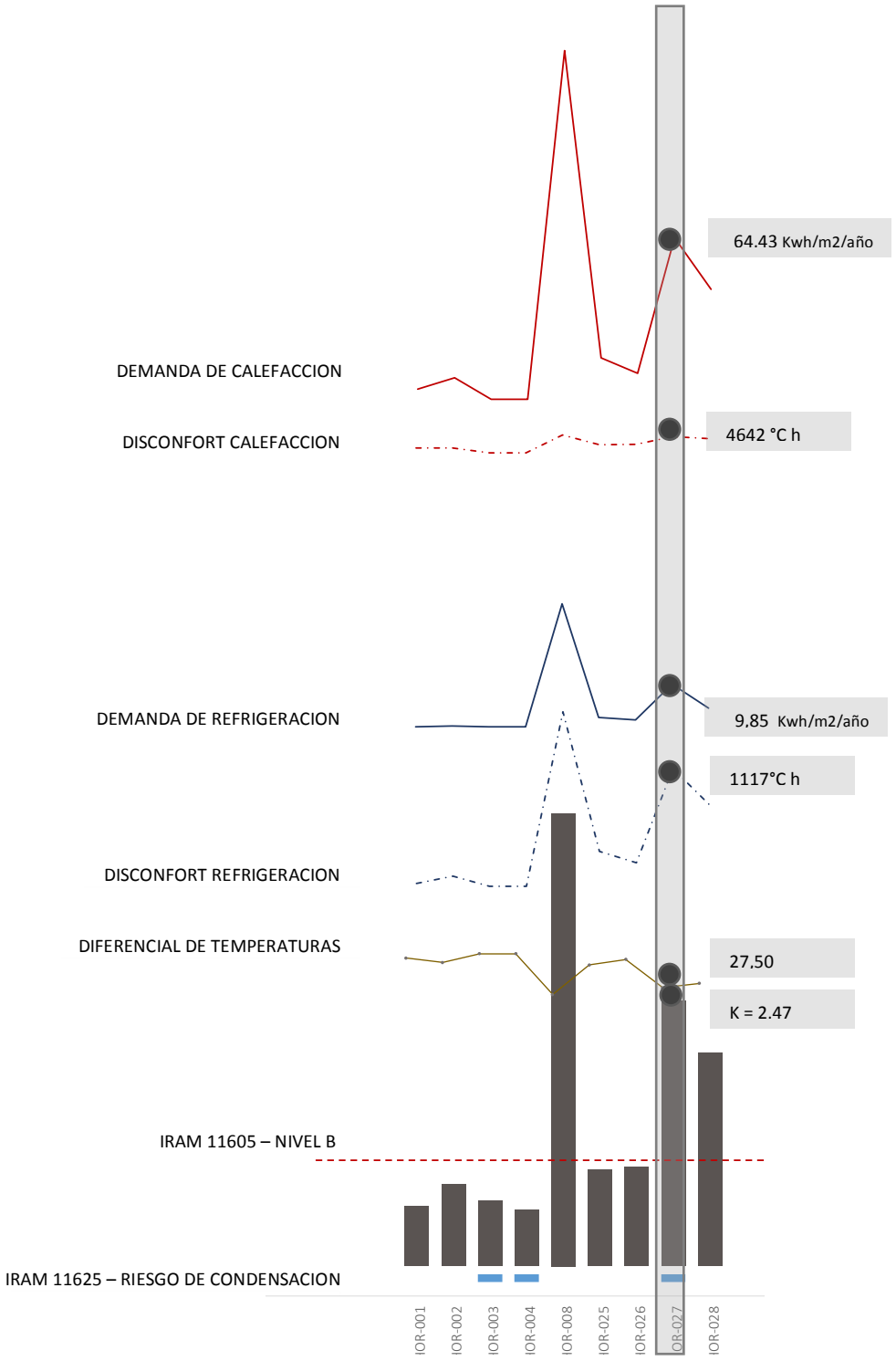



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **344,82** | kWh | 9,85 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **2.254,98** | kWh | 64,43 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.599,80** | kWh | **74,28** | kWh/m2/año |

| HOR-027 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 189 | N° 195 | N° 191 | N° 187 | N° 193 | N° 189 |



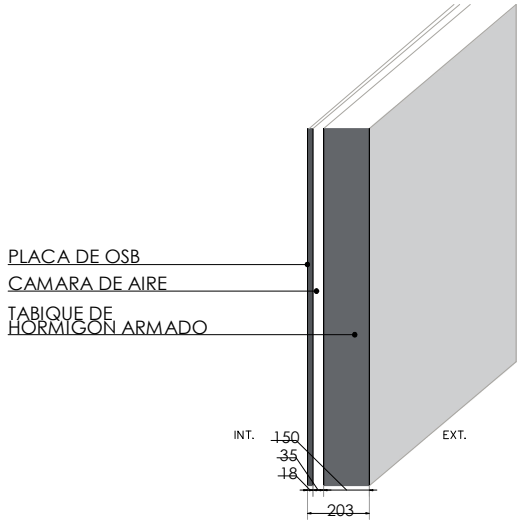

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,45 | 33% | 29,28 | 47,97 | 5,74 | 4583 | 570 |
| INDIVIDUAL | 2,47 | 100% | 27,50 | 64,43 | 9,85 | 4642 | 1117 |
| INC. FAMILIA | 170,59% | 303,03% | 93,92% | 134,32% | 171,67% | 101,30% | 196,08% |
| INC. MUNDIAL | 207,93% | 357,05% | 89,25% | 156,67% | 164,12% | 104,04% | 218,52% |

| HOR-028 | MU | HORMIGON |
|---|---|---|

TABIQUE DE HORMIGON COLADO IN SITU ESPESOR 15 CM-TERMINACION A LA VISTA EN CARA EXTERIOR-CAMARA DE AIRE 35 MM+ TERMINACION PLACA DE OSB.

## INDICE DE TRANSMITANCIA TERMICA "K"

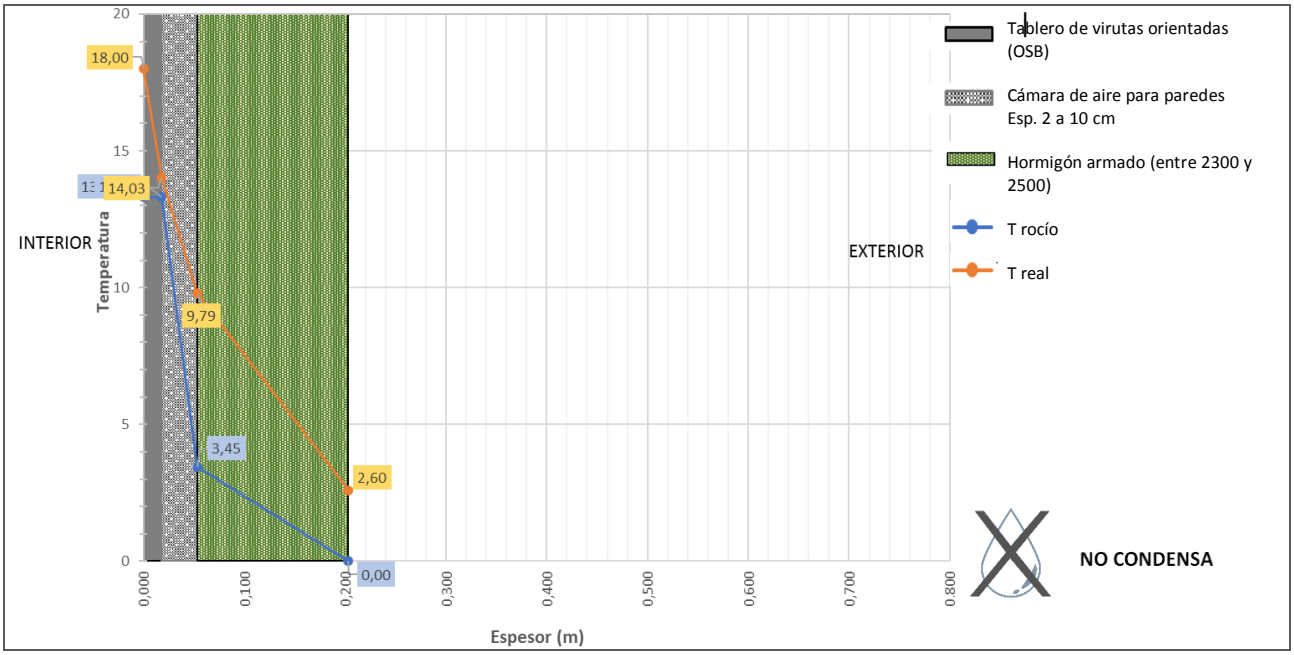
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,99 | 1,99 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



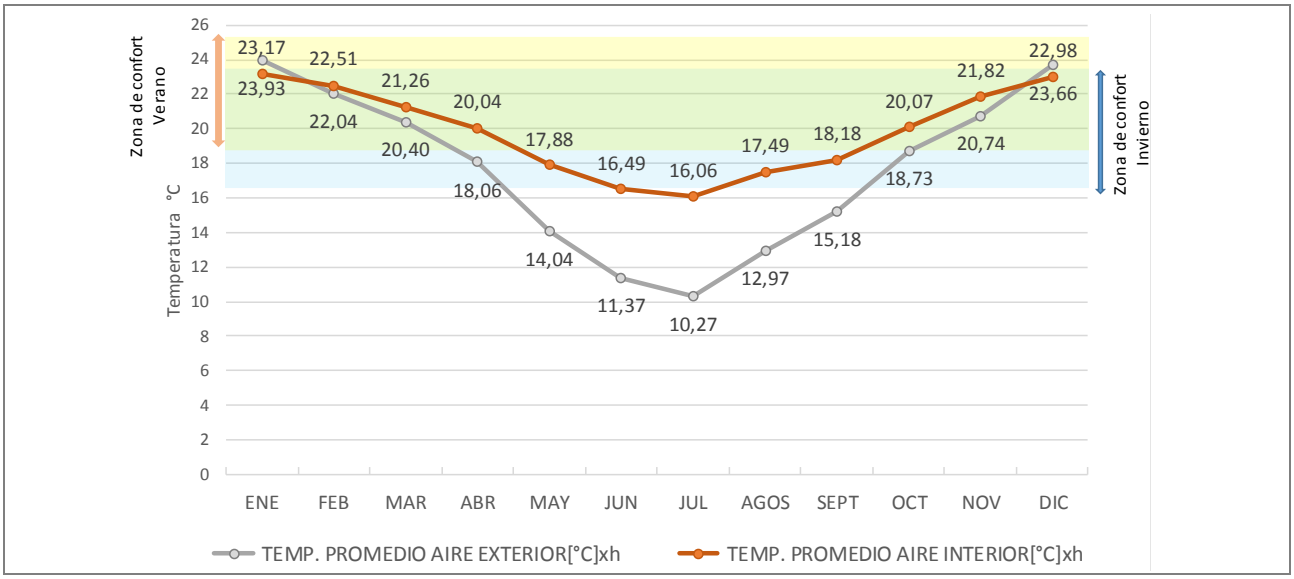

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 267,9 | 37,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,5** | **2,8** |
| | **Amortiguamiento:** | 0,063 | 0,421 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,1** | **3,6** |
| | **Amortiguamiento:** | 0,120 | 0,385 |

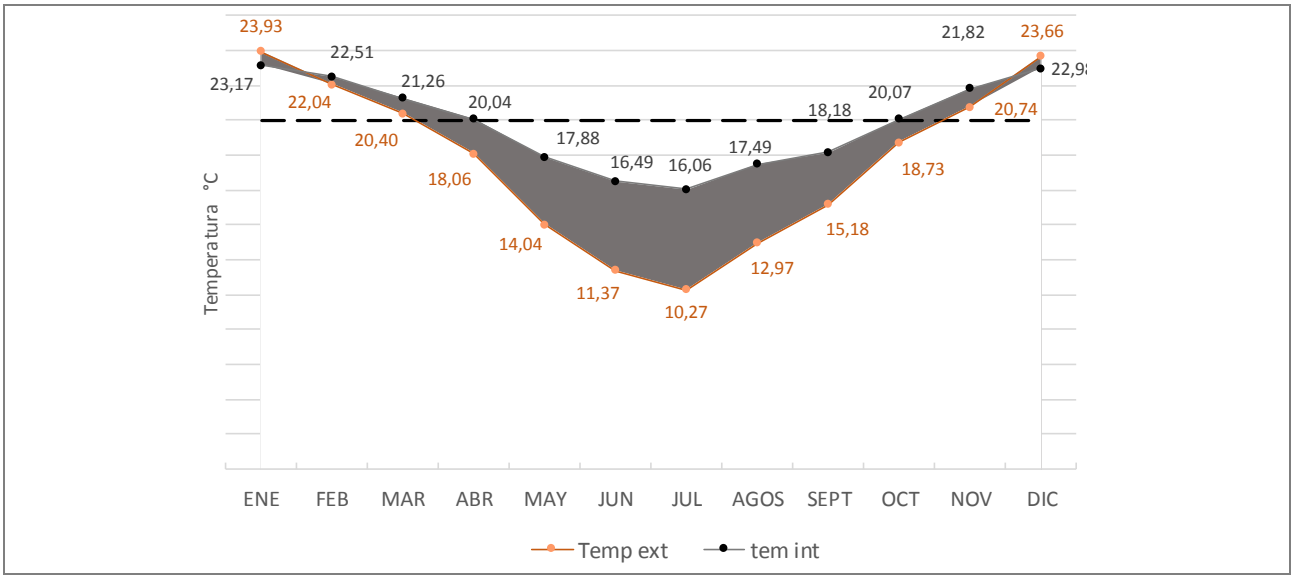
| HOR-028 | CU | HORMIGON |
|---|---|---|

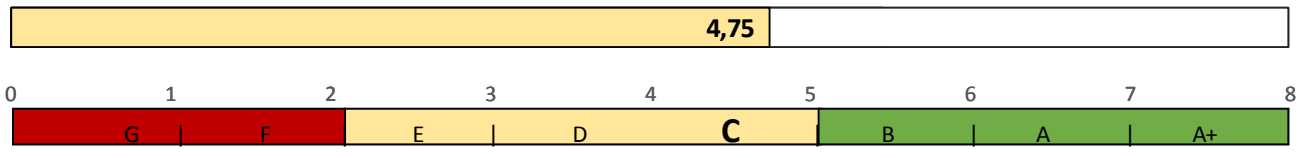
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 19:00 hs | **27,00** | 0°C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,10** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



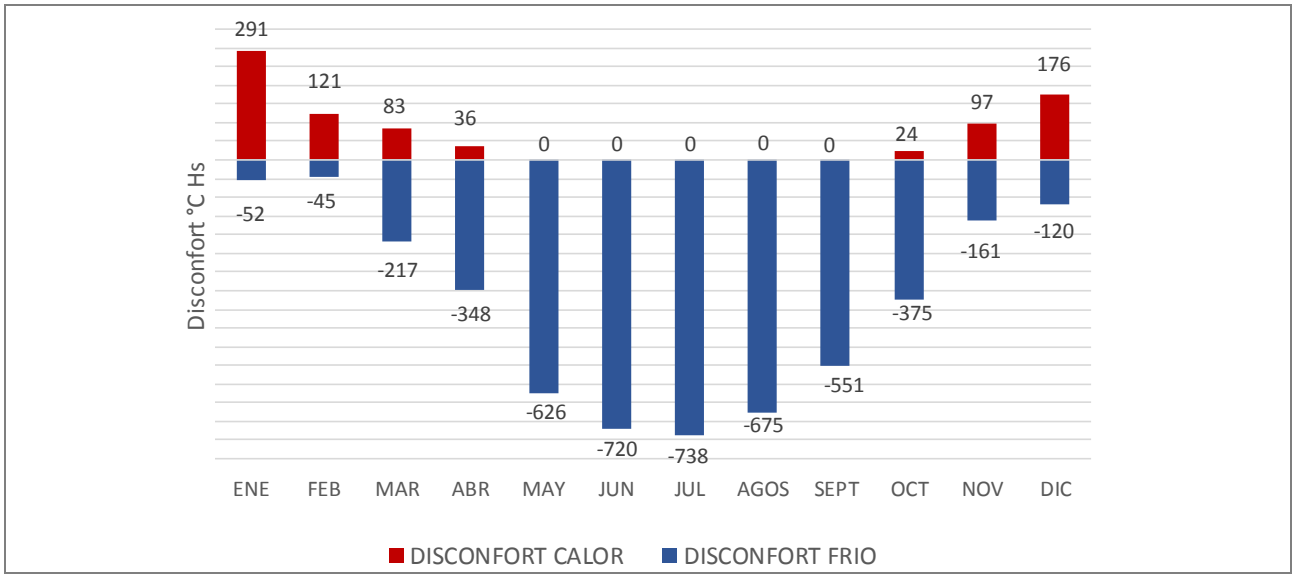




4,75 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,59

| HOR-028 | CU | HORMIGON |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

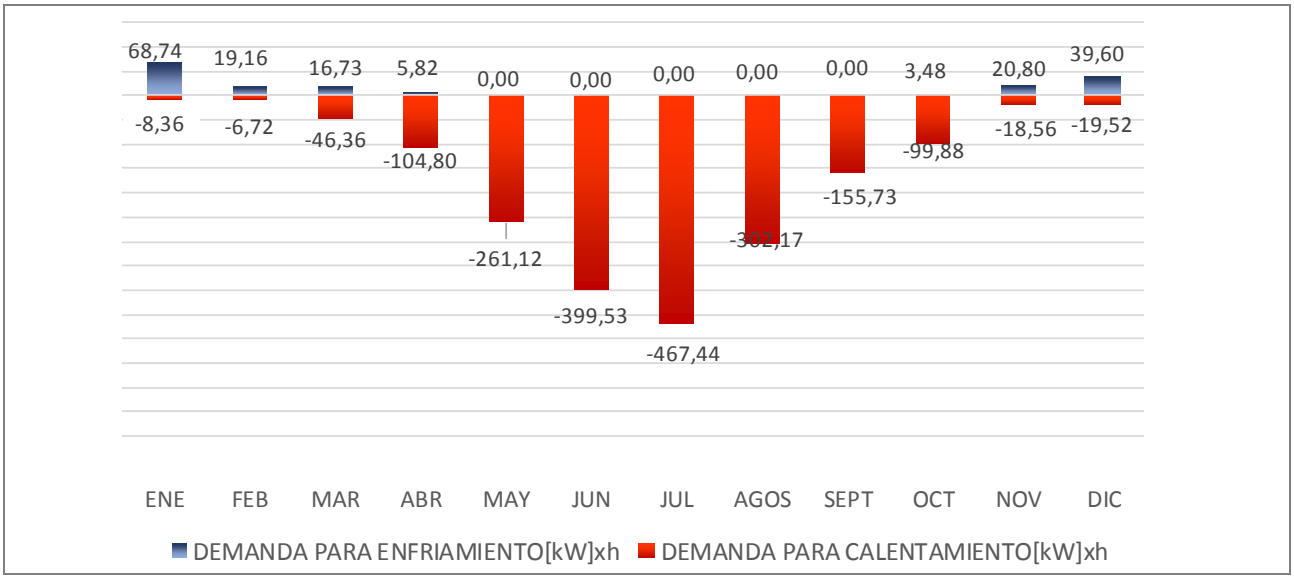
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **828** | °C Hs | 9% |
| HORAS DE DISCONFORT POR FRÍO | **4.627** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.456** | **°C Hs** | **62%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

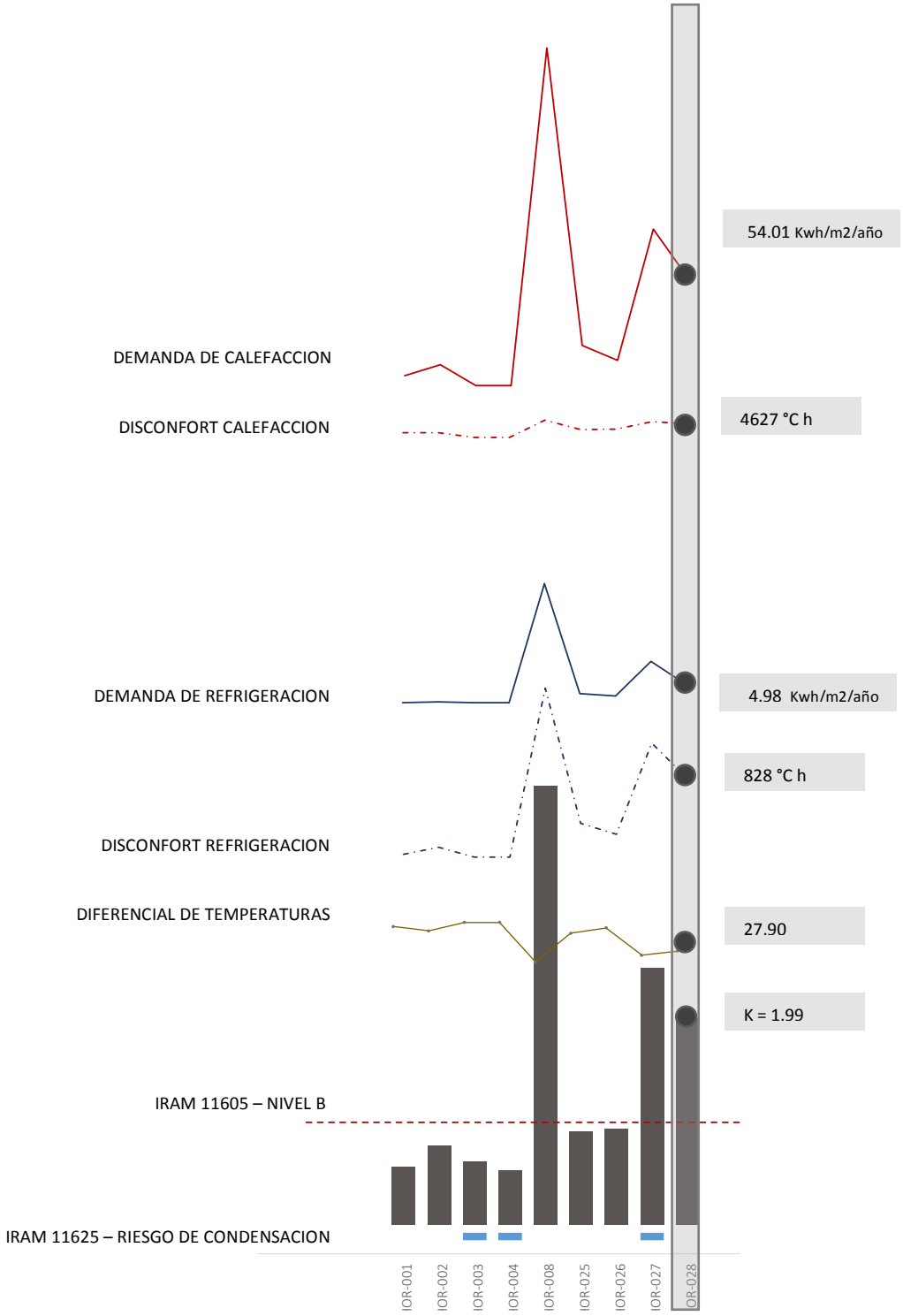



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **174,33** | kWh | 4,98 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.890,18** | kWh | 54,01 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.064,51** | kWh | **58,99** | kWh/m2/año |

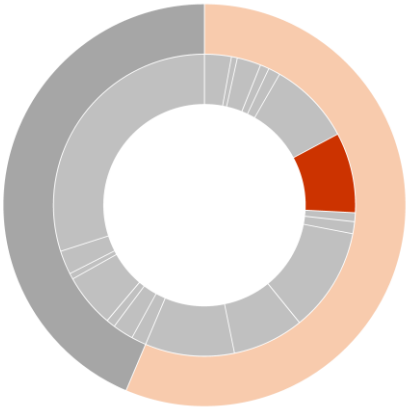
| HOR-028 | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 185 | N° 194 | N° 187 | N° 182 | N° 187 | N° 185 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,45 | 33% | 29,28 | 47,97 | 5,74 | 4583 | 570 |
| INDIVIDUAL | 1,99 | 0% | 27,90 | 54,01 | 4,98 | 4627 | 828 |
| INC. FAMILIA | 136,95% | 0,00% | 95,29% | 112,59% | 86,79% | 100,97% | 145,35% |
| INC. MUNDIAL | 166,93% | 0,00% | 90,54% | 131,33% | 82,98% | 103,71% | 161,99% |



# ALMA DE EPS

**EPS 001**: MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (CONCREHAUS) PM60 + TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

**EPS 002:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CONCREHAUS)) PM80+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

**EPS 003:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CASSAFORMA) PM80+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

**EPS 004:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 16 CM (CASSAFORMA) PM100+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

**EPS 005:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 10 CM (EMEDUE) PM40+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

**EPS 006:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (EMEDUE) PM60+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

**EPS 007:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (EMEDUE) PM80+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

**EPS 008:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (CONCREHAUS) PM60 + TERMINACIÓN INTERIOR REVOQUE GRUESO Y FINO + EXTERIOR CON REVOQUE AISLANTE.

**EPS 009**: MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CONCREHAUS) PM80 + TERMINACIÓN INTERIOR REVOQUE GRUESO Y FINO + EXTERIOR CON REVOQUE AISLANTE..

**EPS 010:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CASSAFORMA) PM80 + TERMINACIÓN INTERIOR REVOQUE GRUESO Y FINO + EXTERIOR CON REVOQUE AISLANTE.

**EPS 011:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 16 CM (CASSAFORMA) PM100 + TERMINACION INTERIOR REVOQUE GRUESO Y FINO+ EXTERIOR CON REVOQUE AISLANTE..

**EPS 012:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 10 CM (EMEDUE) PM40 + TERMINACION INTERIOR REVOQUE GRUESO Y FINO + EXTERIOR CON REVOQUE AISLANTE.

**EPS 013:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (EMEDUE) PM60 + TERMINACIÓN INTERIOR REVOQUE GRUESO Y FINO+ EXTERIOR CON REVOQUE AISLANTE.

**EPS 014:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (EMEDUE) PM80 + TERMINACION INTERIOR REVOQUE GRUESO Y FINO+ EXTERIOR CON REVOQUE AISLANTE.

**EPS 015:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (CONCREHAUS) PM60 + INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

**EPS 016:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CONCREHAUS) PM80 + INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

**EPS 017:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CONCREHAUS) PM80 + INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

**EPS 018:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 16 CM (CASSAFORMA) PM100 +INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

**EPS 019:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 10 CM (EMEDUE) PM40 +INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

**EPS 020:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (EMEDUE) PM60 +INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

**EPS 021:** MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (EMEDUE) PM80 +INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

**EPS 022**: LOSA ALMA DE EPS Y HORMIGON PROYECTADO. (CONCREHAUS) PM80 CON CUBIERTA TRADICIONAL Y TERMINACION MEMBRANA.

**EPS 023:** LOSA ALMA DE EPS Y HORMIGON PROYECTADO. (CASSAFORMA) PM80 CON CUBIERTA TRADICIONAL Y TERMINACION MEMBRANA.

**EPS 024:** LOSA ALMA DE EPS Y HORMIGON PROYECTADO. (EMEDUE) PM80 CON CUBIERTA TRADICIONAL Y TERMINACION MEMBRANA.

**EPS 025:** MURO SISTEMA PENTAWALL- NUCLEO 10 CM.

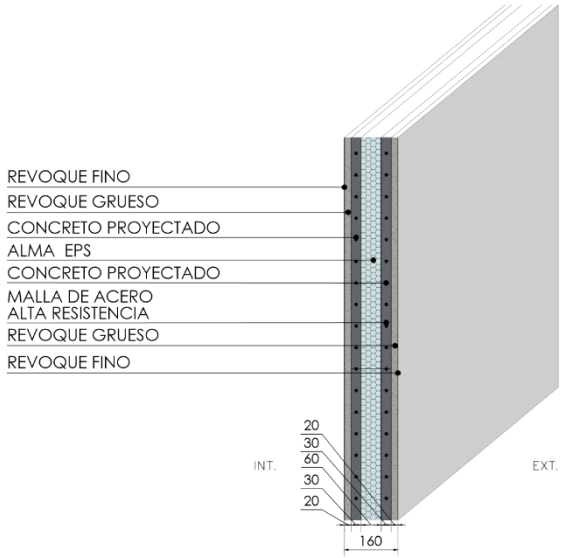
**EPS 026:** CUBIERTA TRADICIONAL NUCLEO 10 CM. SISTEMA DE PANELES CON NUCLEO DE EPS Y TERMINACION DE TEJAS.

| EPS-001 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (CONCREHAUS) PM60 + TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

## INDICE DE TRANSMITANCIA TERMICA "K"

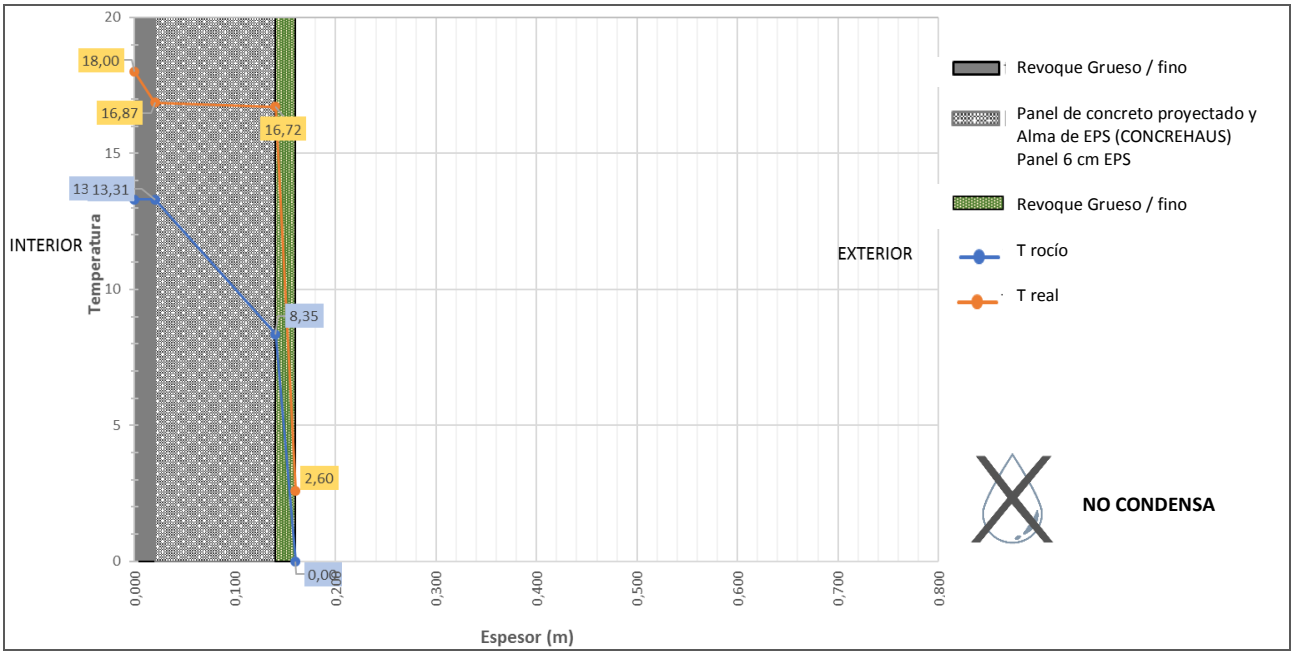
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,57 | 0,57 |
|---|---|
| **verifica verano** | **verifica invierno** |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



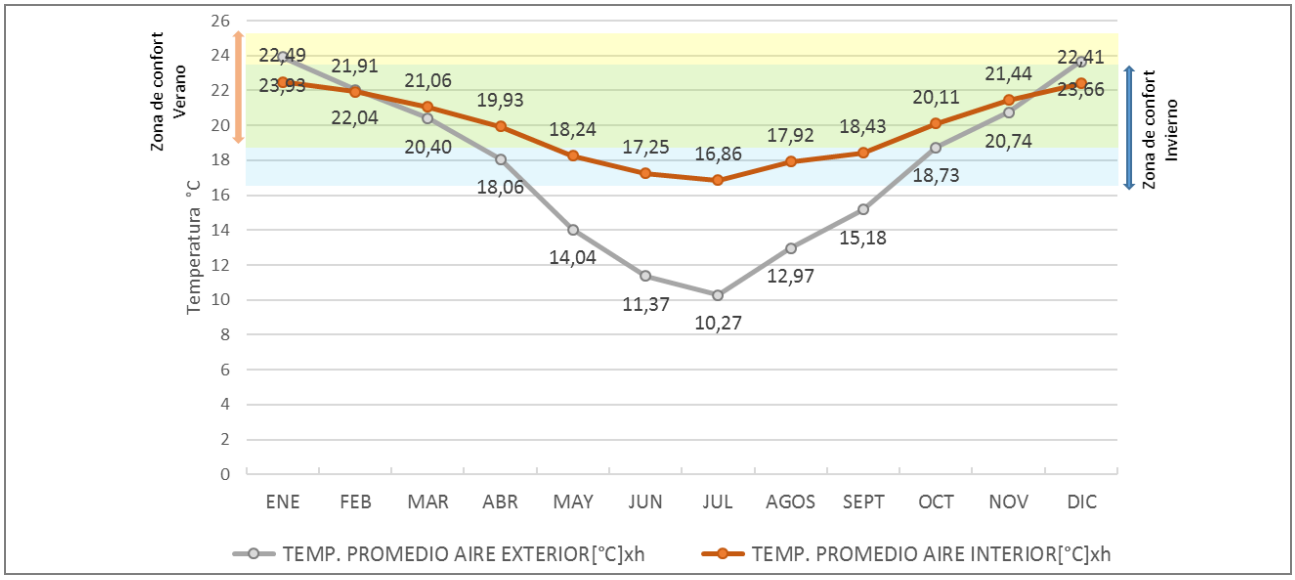

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 6,9 | 6,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,8** | **5,8** |
| | **Amortiguamiento:** | 0,117 | 0,117 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,0** | **5,7** |
| | **Amortiguamiento:** | 0,210 | 0,227 |

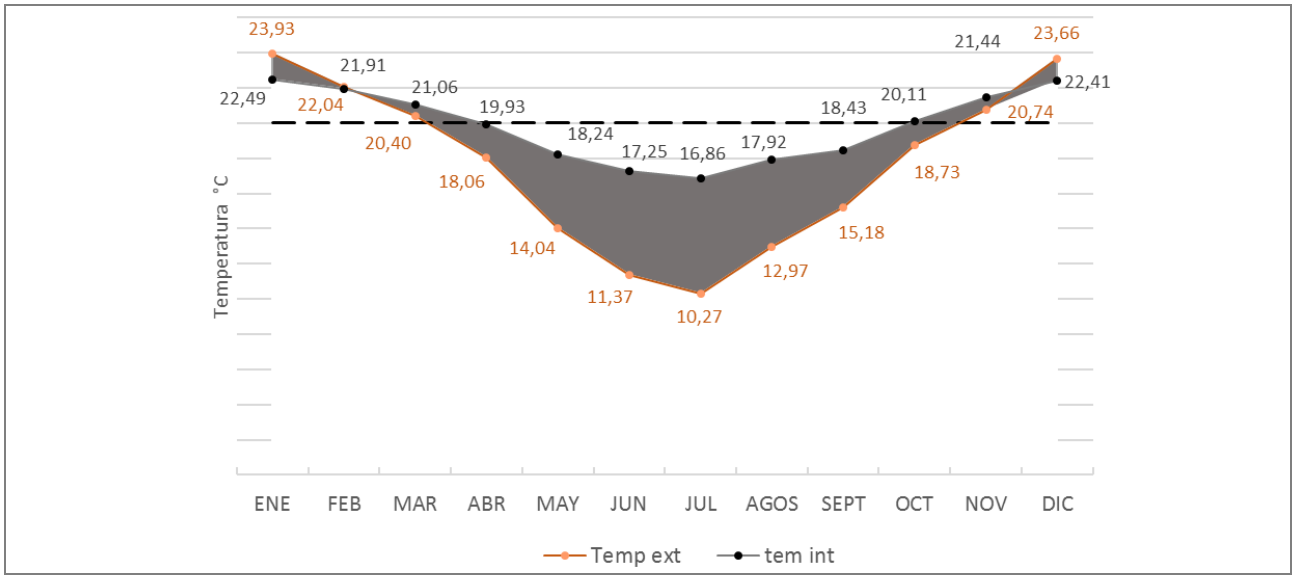
| EPS-001 | MU | ALMA EPS |
|---|---|---|

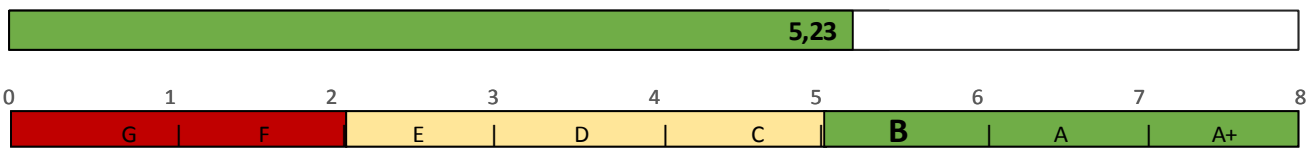
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,80** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,48** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



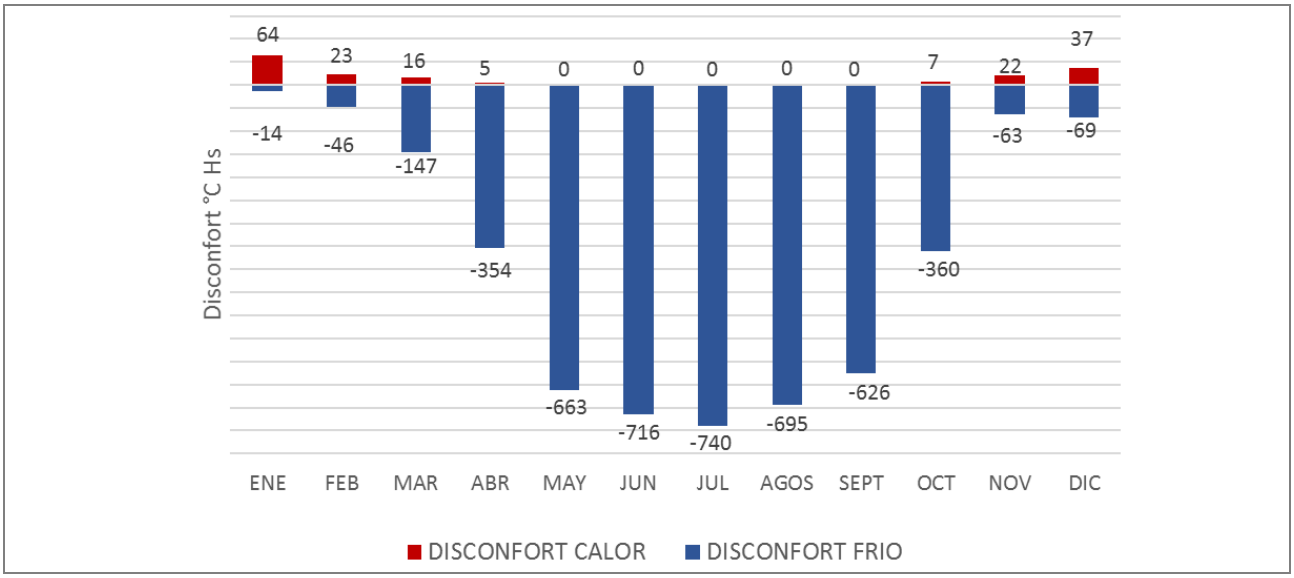




5,23 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| EPS-001 | MU | ALMA EPS |
|---|---|---|

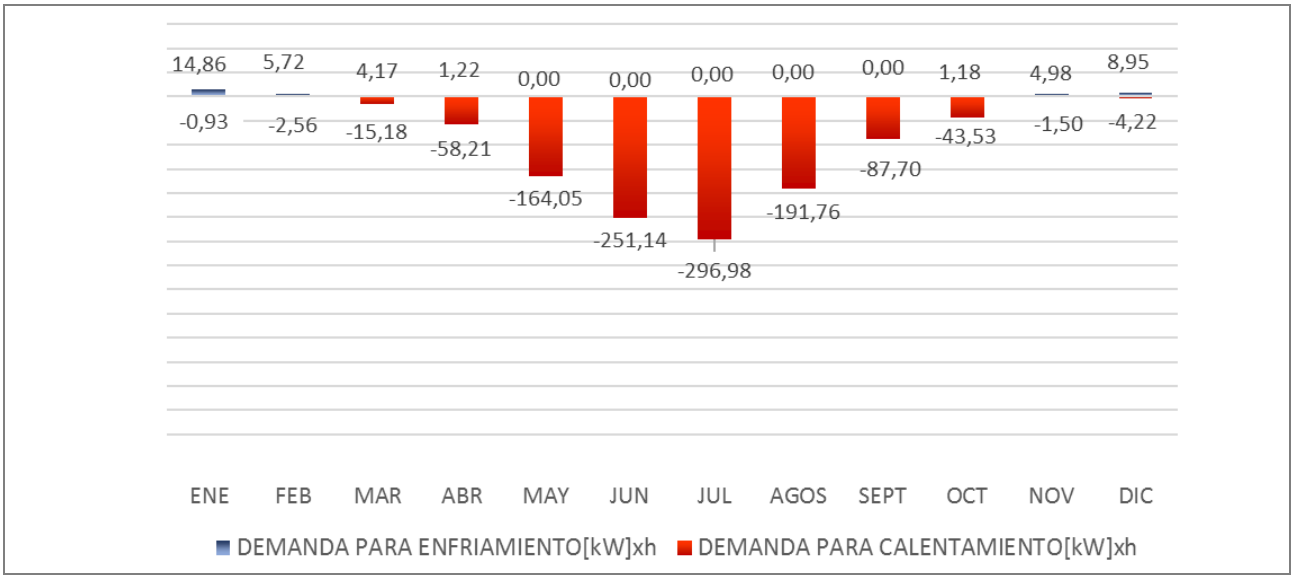
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **174** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.492** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.665** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

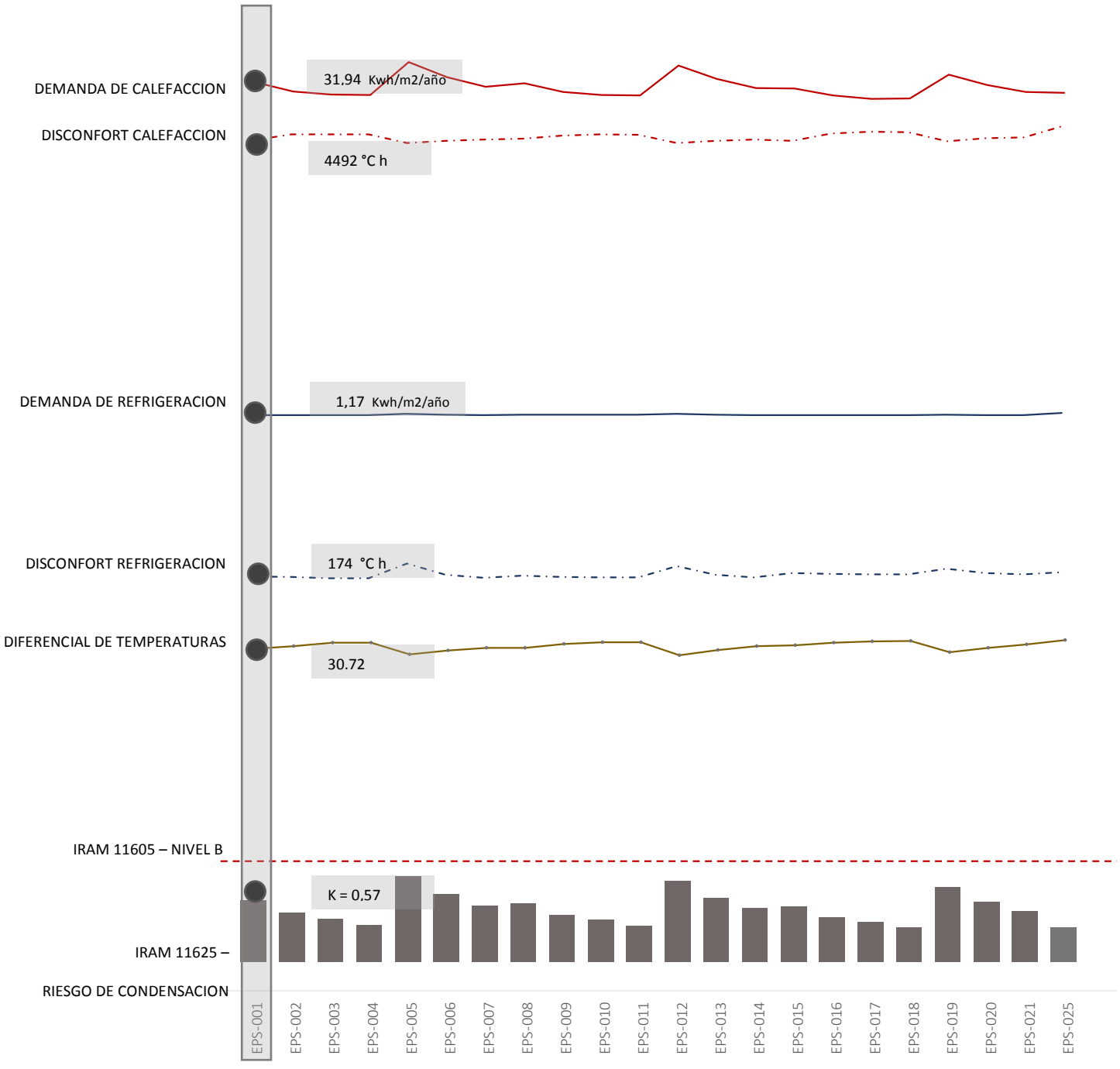



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **41,08** | kWh | 1,17 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.117,77** | kWh | 31,94 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.158,85** | kWh | **33,11** | kWh/m2/año |

| EPS-001 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 139 | N° 141 | N° 113 | N° 052 | N° 050 | N° 053 |



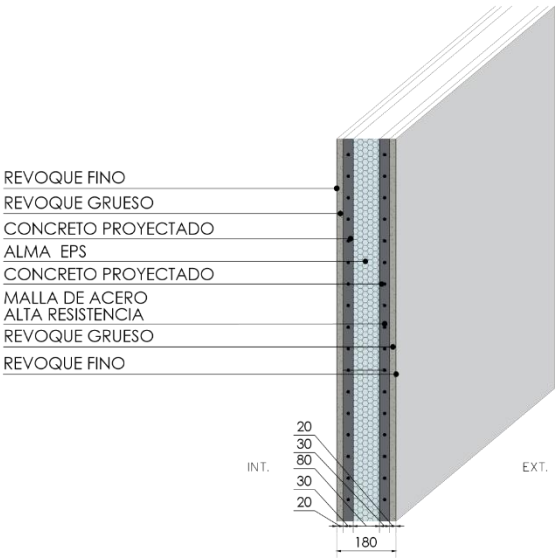

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,57 | 0% | 30,72 | 31,94 | 1,17 | 4492 | 174 |
| INC. FAMILIA | 115,47% | 0,00% | 99,24% | 103,21% | 96,66% | 99,46% | 91,40% |
| INC. MUNDIAL | 47,92% | 0,00% | 99,70% | 77,66% | 19,49% | 100,68% | 34,04% |

| EPS-002 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CONCREHAUS)) PM80+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

## INDICE DE TRANSMITANCIA TERMICA "K"

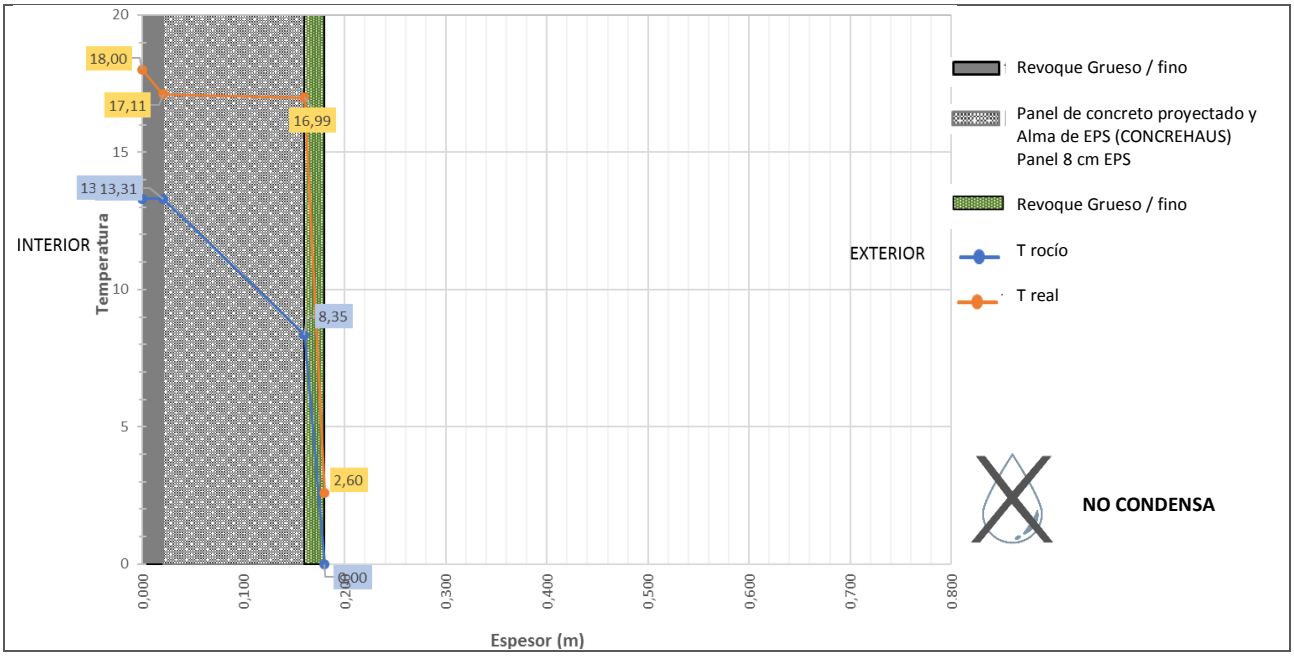
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,45 | 0,45 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



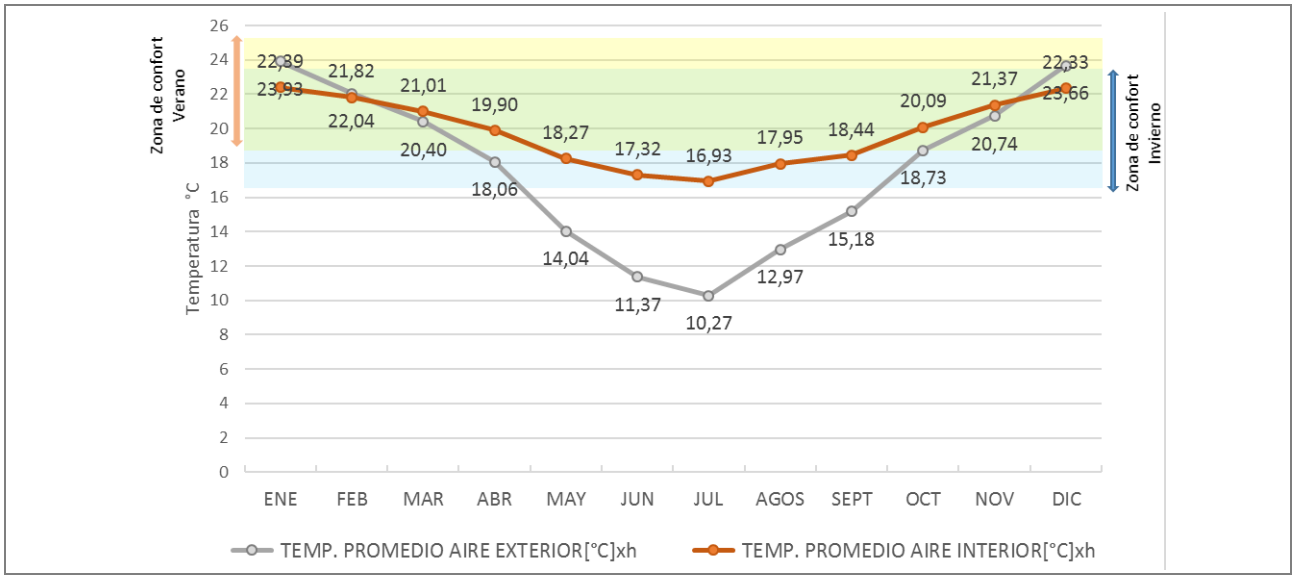

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 5,3 | 5,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,6** | **6,6** |
| | **Amortiguamiento:** | 0,087 | 0,087 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,7** | **6,4** |
| | **Amortiguamiento:** | 0,174 | 0,186 |

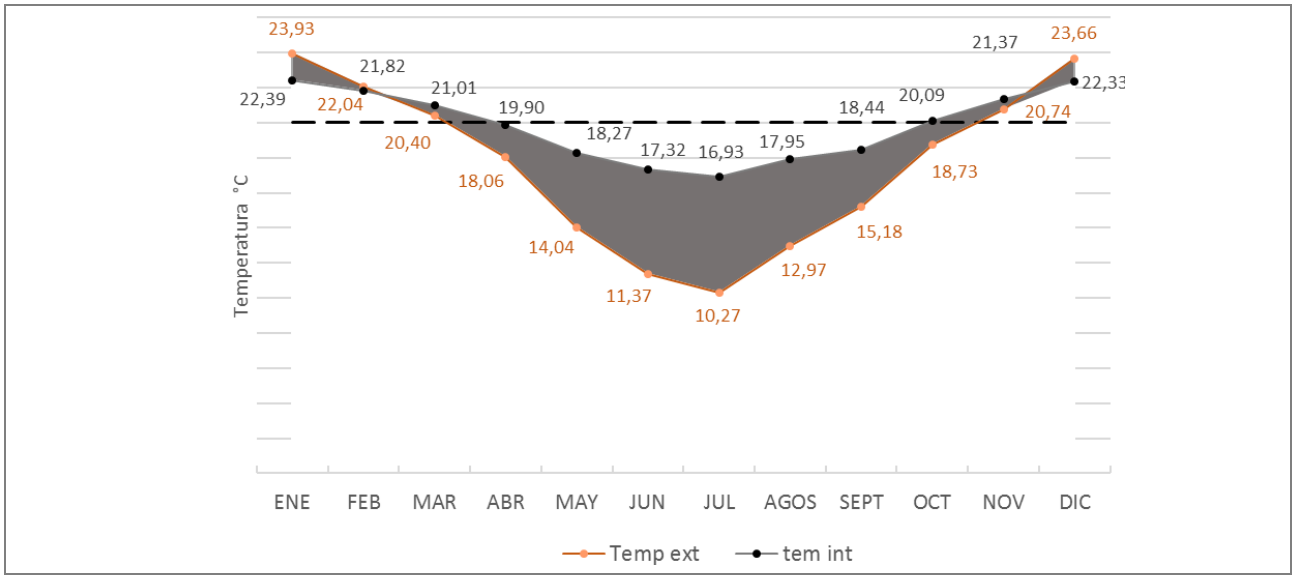
| EPS-002 | MU | ALMA EPS |
|---|---|---|

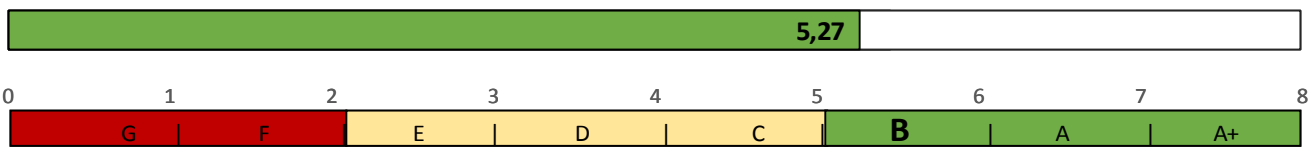
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,69** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,65** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



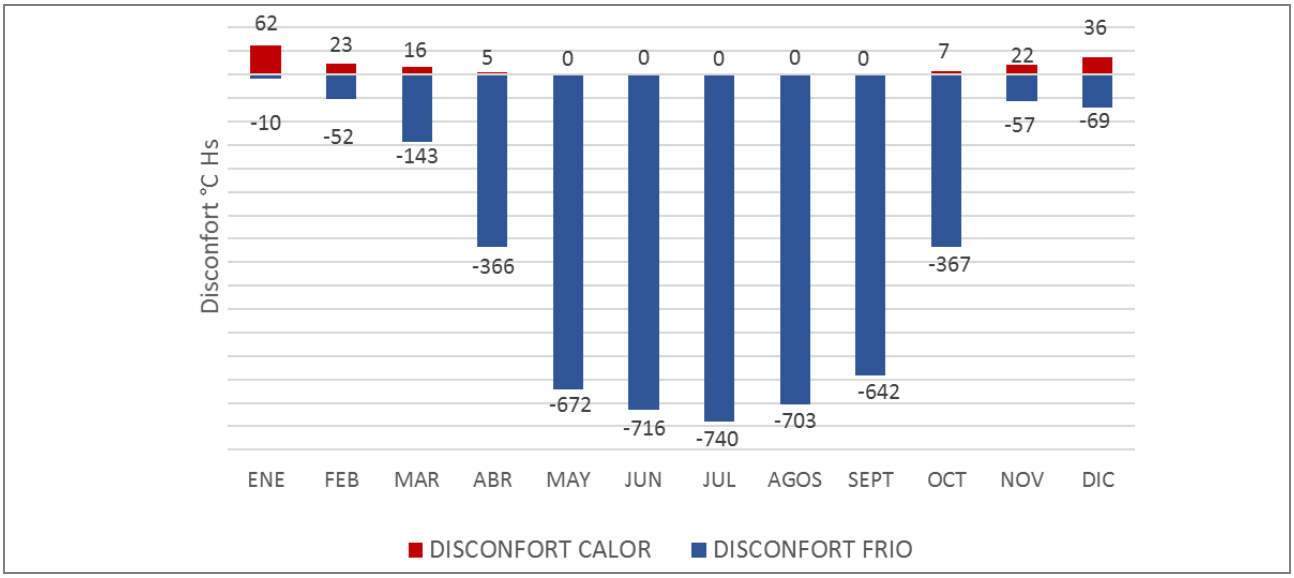




5,27 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| EPS-002 | MU | ALMA EPS |
|---|---|---|

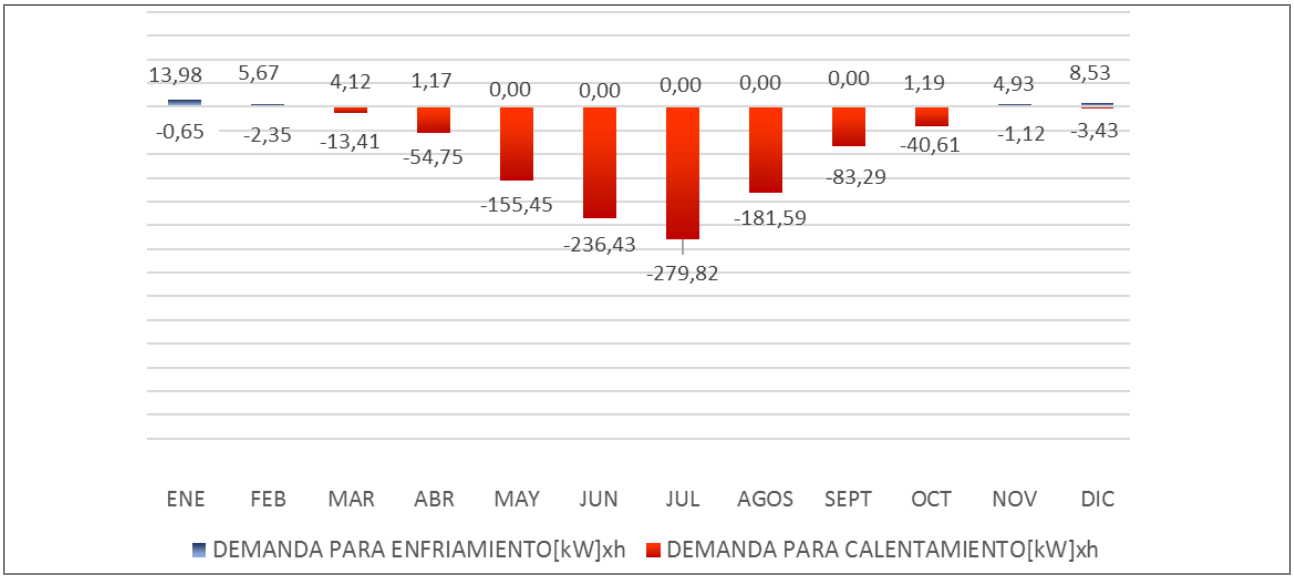
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **171** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.537** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.708** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

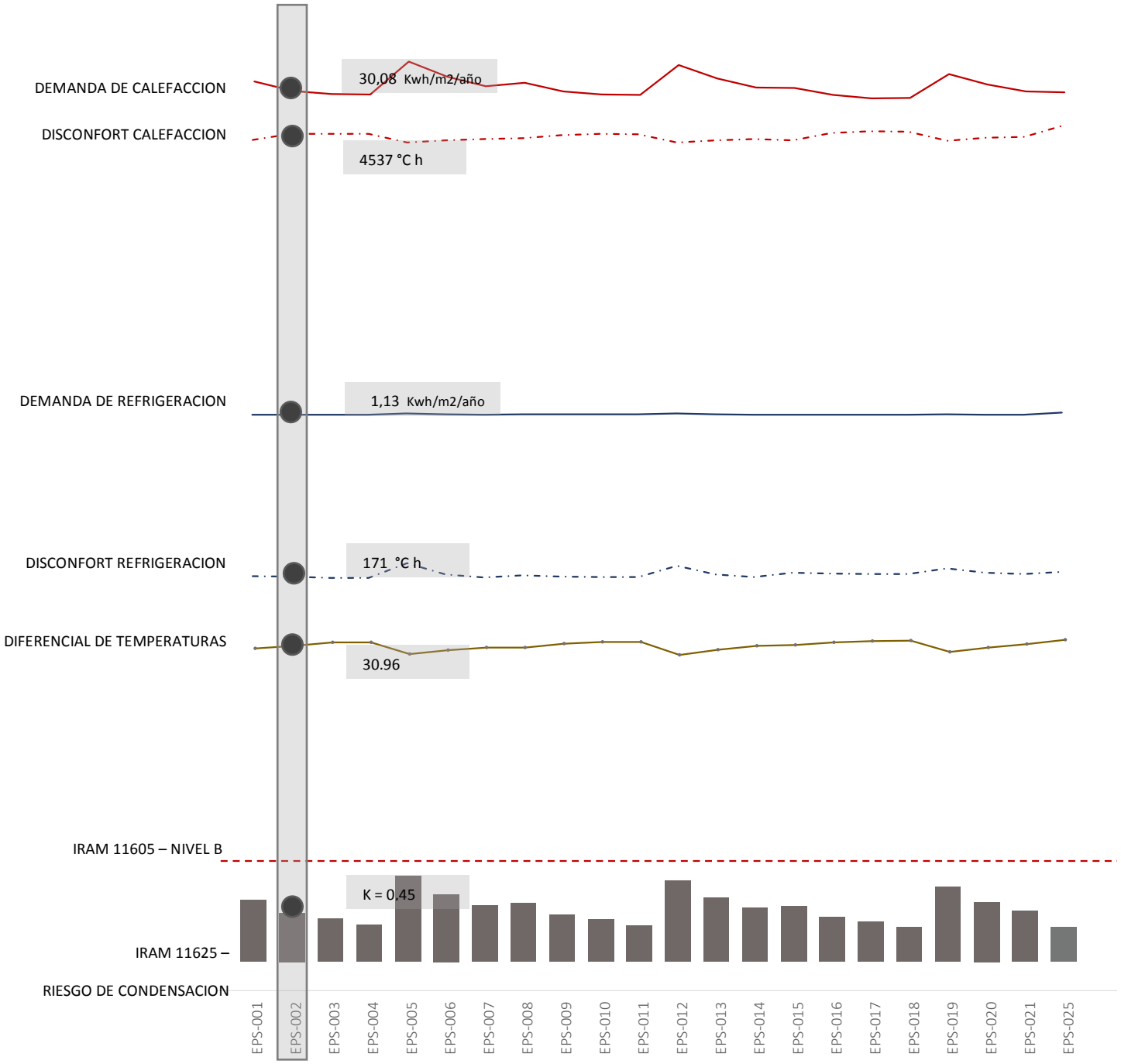



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **39,59** | kWh | 1,13 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.052,90** | kWh | 30,08 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.092,50** | kWh | **31,21** | kWh/m2/año |

| EPS-002 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 094 | N° 113 | N° 066 | N° 047 | N° 094 | N° 046 |



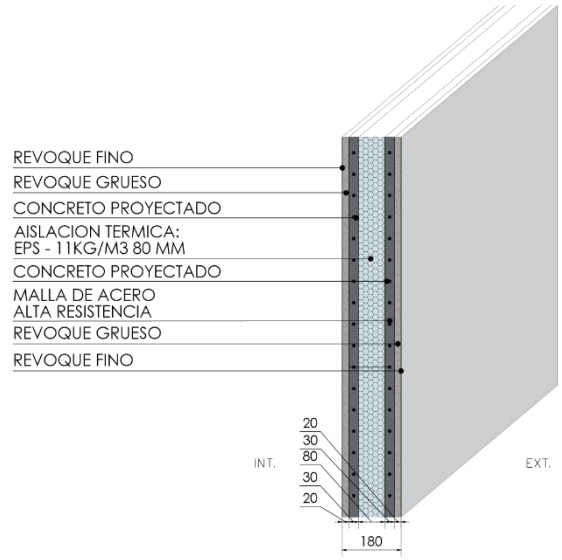

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,45 | 0% | 30,96 | 30,08 | 1,13 | 4537 | 171 |
| INC. FAMILIA | 91,16% | 0,00% | 100,02% | 97,20% | 93,35% | 100,46% | 89,83% |
| INC. MUNDIAL | 37,83% | 0,00% | 100,47% | 73,14% | 18,83% | 101,69% | 33,45% |

| EPS-003 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CASSAFORMA) PM80+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

## INDICE DE TRANSMITANCIA TERMICA "K"

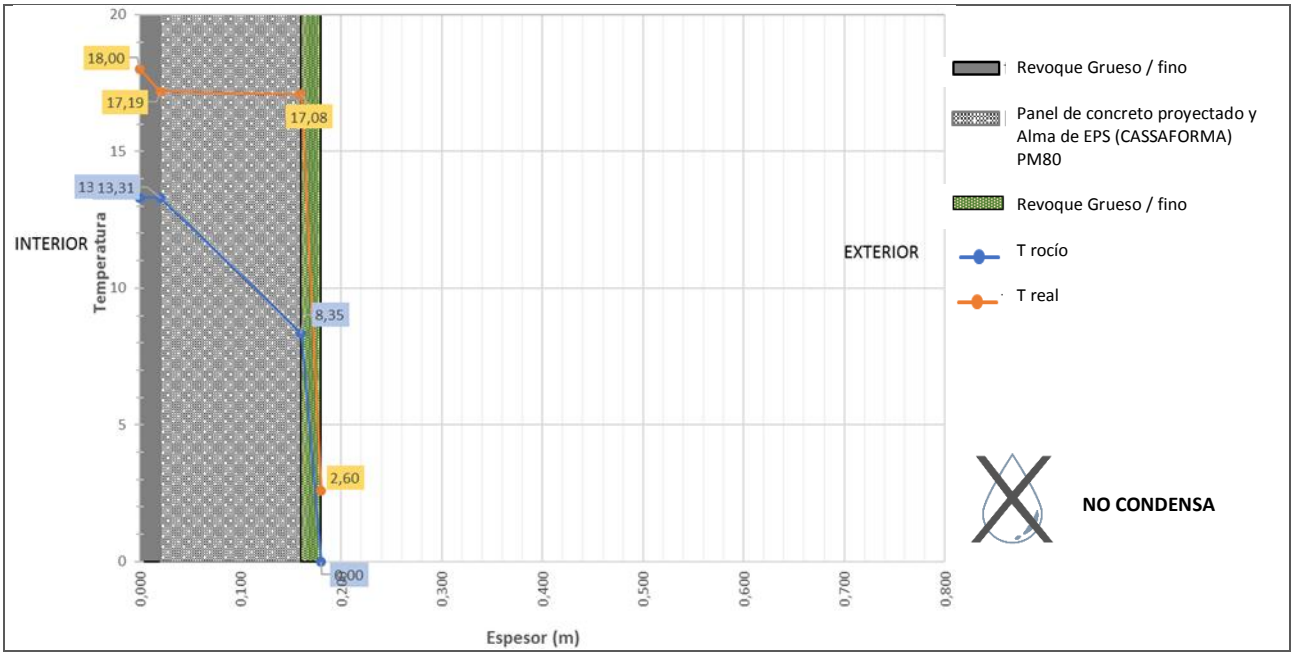
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,40 | 0,40 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



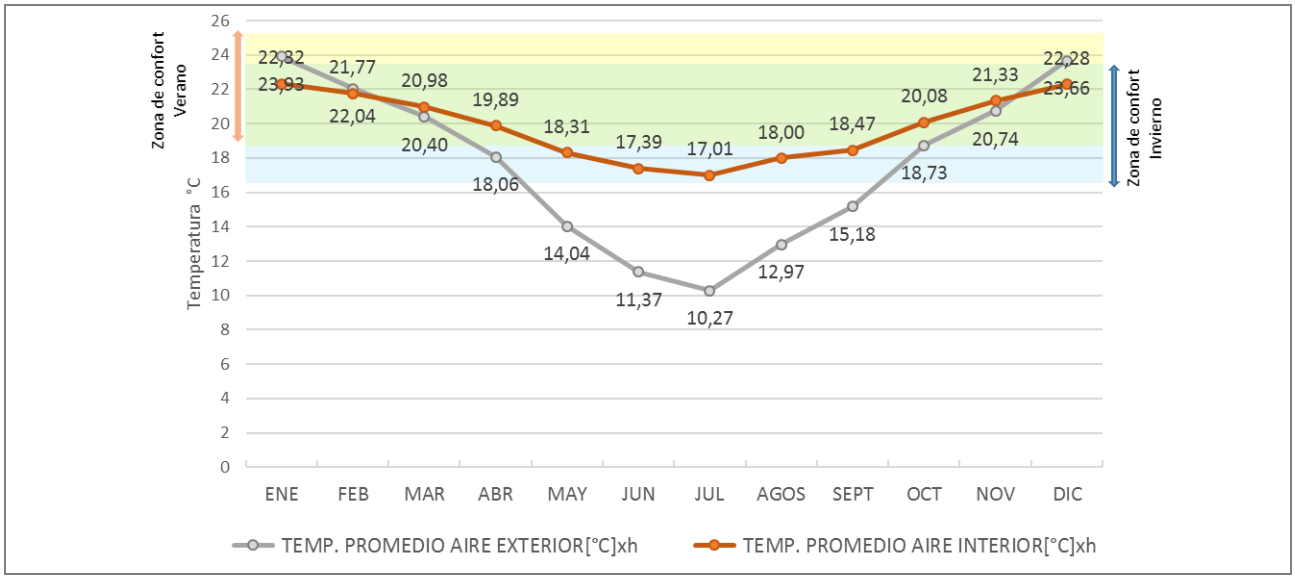

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,8 | 4,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,0** | **7,0** |
| | **Amortiguamiento:** | 0,076 | 0,076 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,0** | **6,7** |
| | **Amortiguamiento:** | 0,160 | 0,171 |

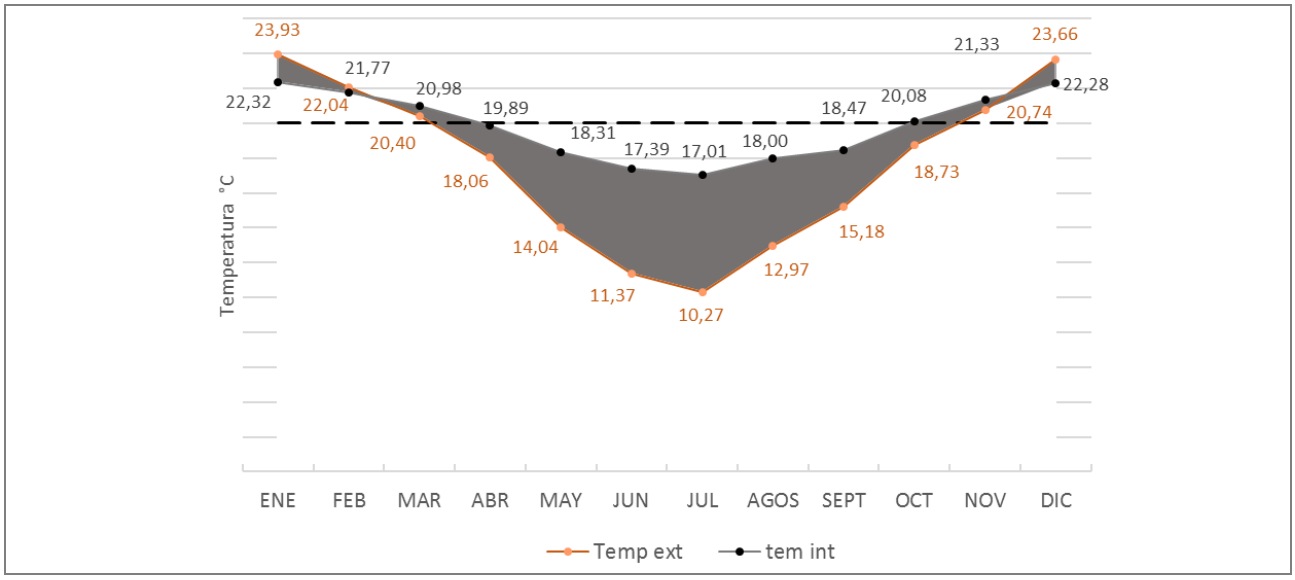
| EPS-003 | MU | ALMA EPS |
|---|---|---|

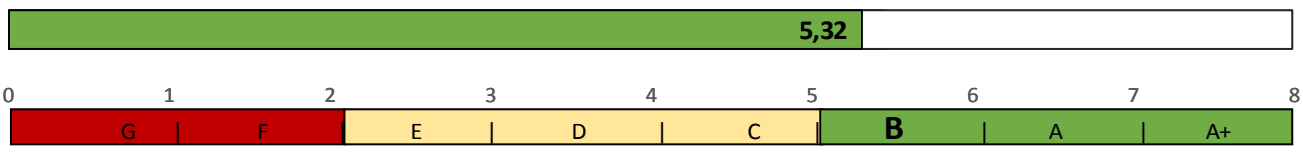
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,63** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,80** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



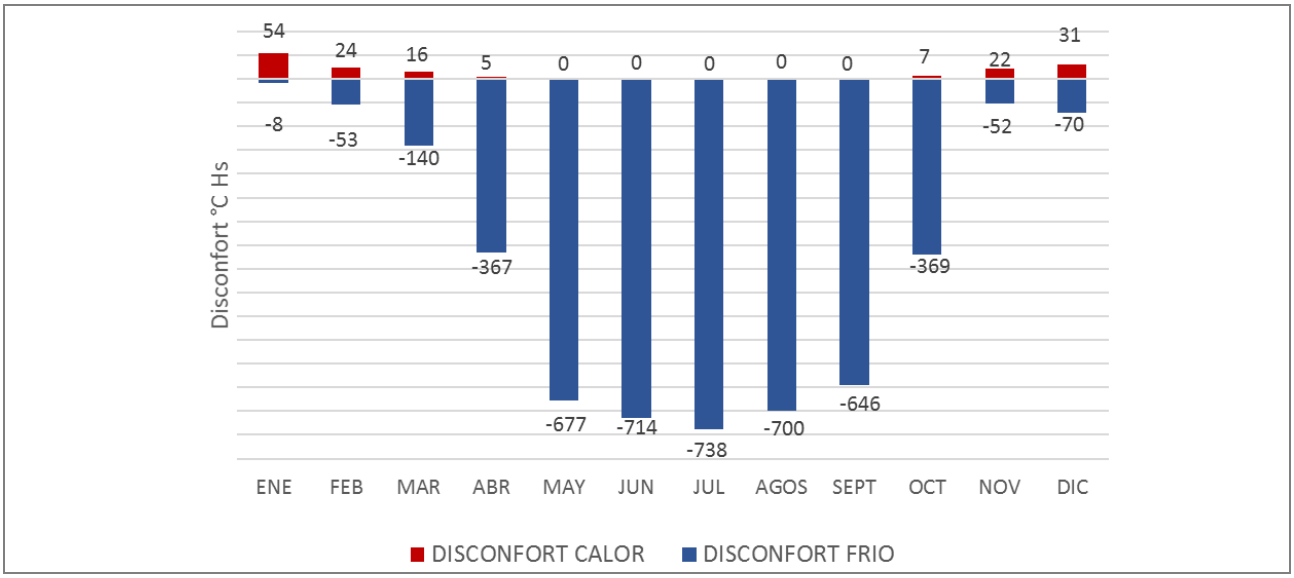




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| EPS-003 | MU | ALMA EPS |
|---|---|---|

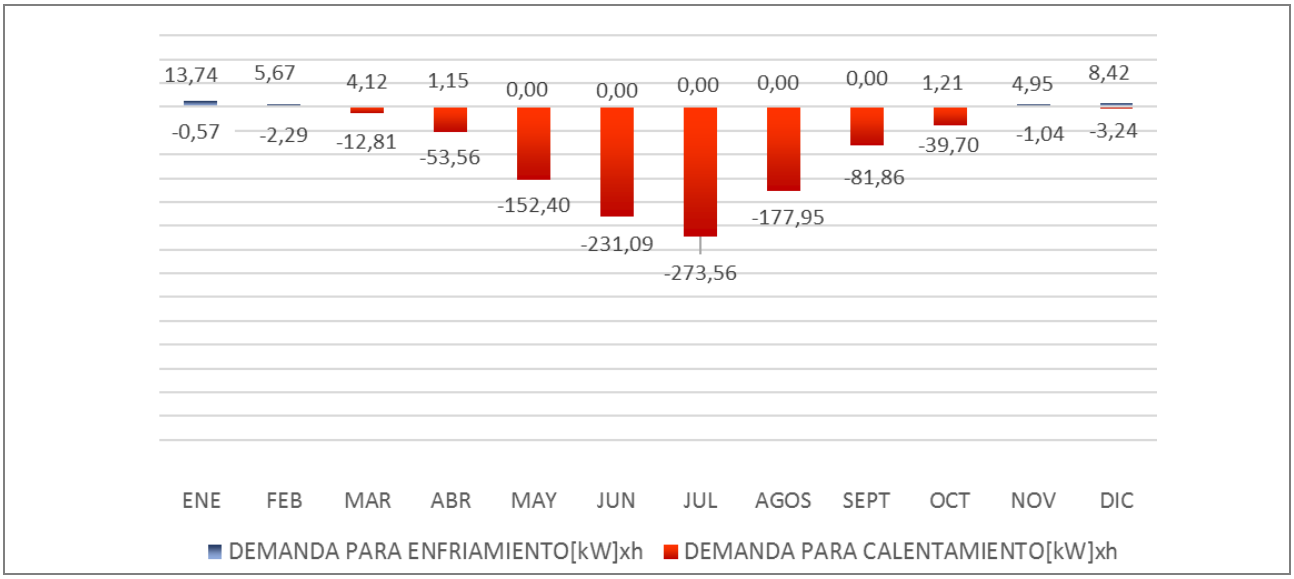
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **159** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.535** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.694** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

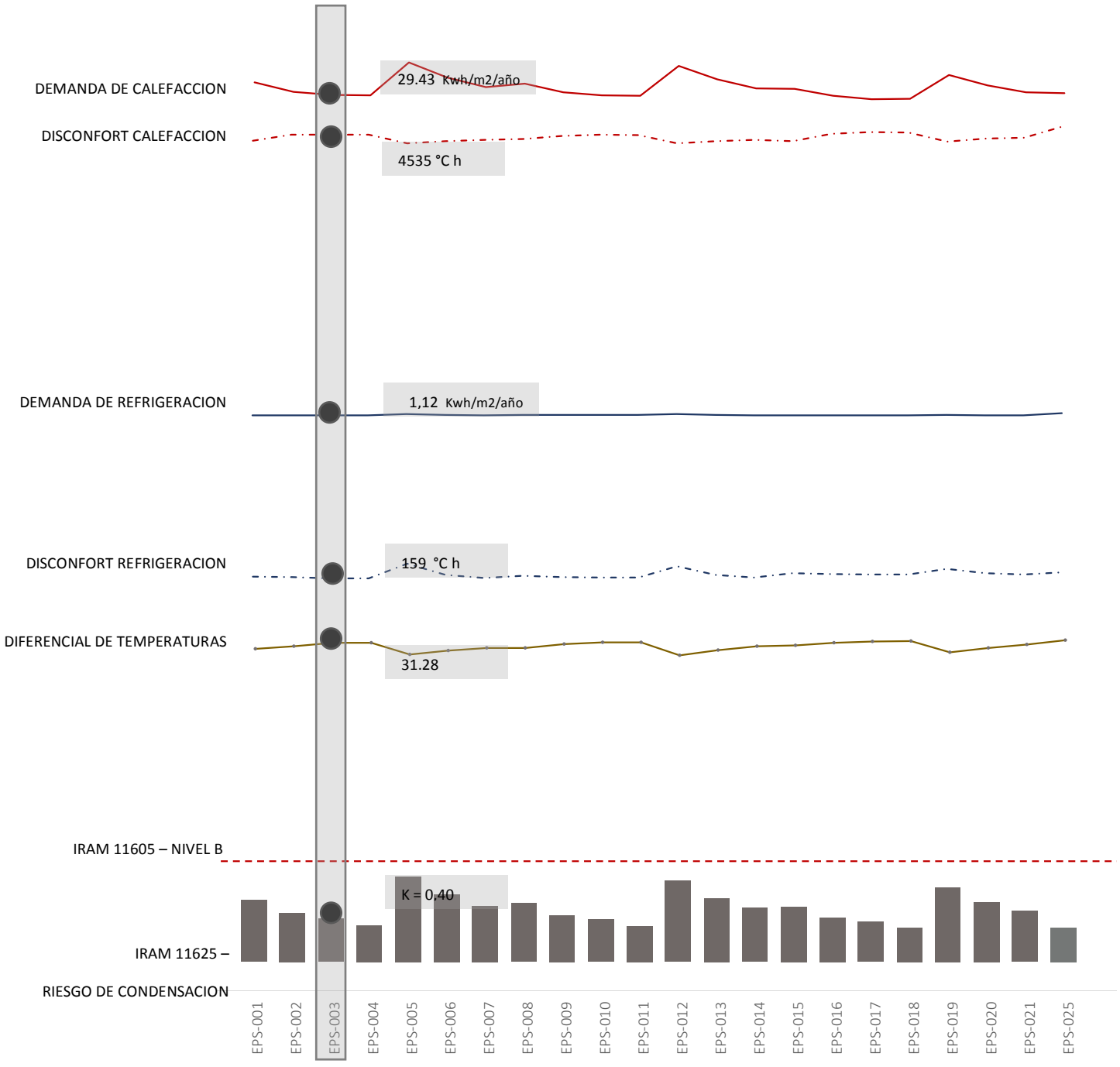



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **39,25** | kWh | 1,12 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.030,08** | kWh | 29,43 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.069,33** | kWh | **30,55** | kWh/m2/año |

| EPS-003 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 072 | N° 079 | N° 047 | N° 041 | N° 092 | N° 033 |



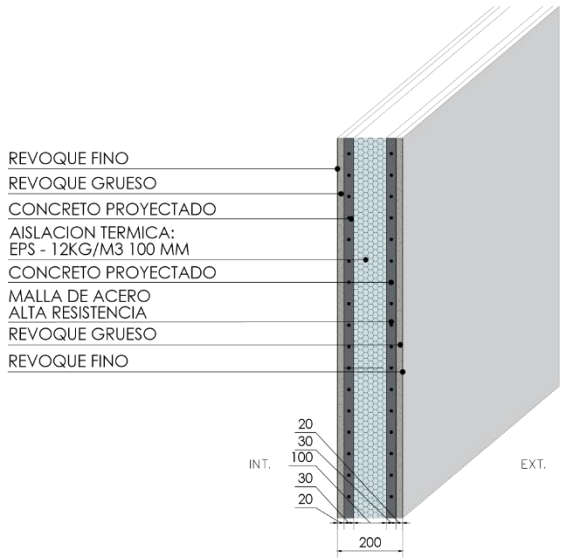

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,4 | 0% | 31,28 | 29,43 | 1,12 | 4535 | 159 |
| INC. FAMILIA | 81,03% | 0,00% | 101,05% | 95,10% | 92,53% | 100,41% | 83,52% |
| INC. MUNDIAL | 33,63% | 0,00% | 101,51% | 71,56% | 18,66% | 101,65% | 31,11% |

| EPS-004 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 16 CM (CASSAFORMA) PM100+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

## INDICE DE TRANSMITANCIA TERMICA "K"

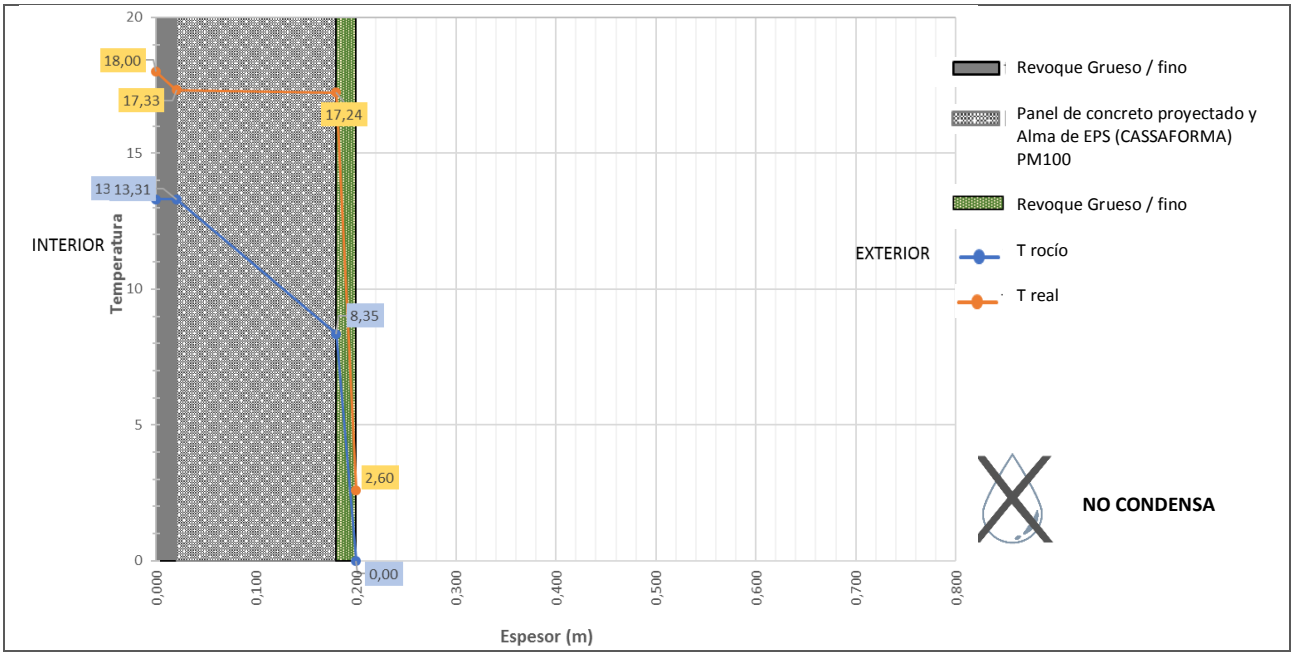
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,34 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



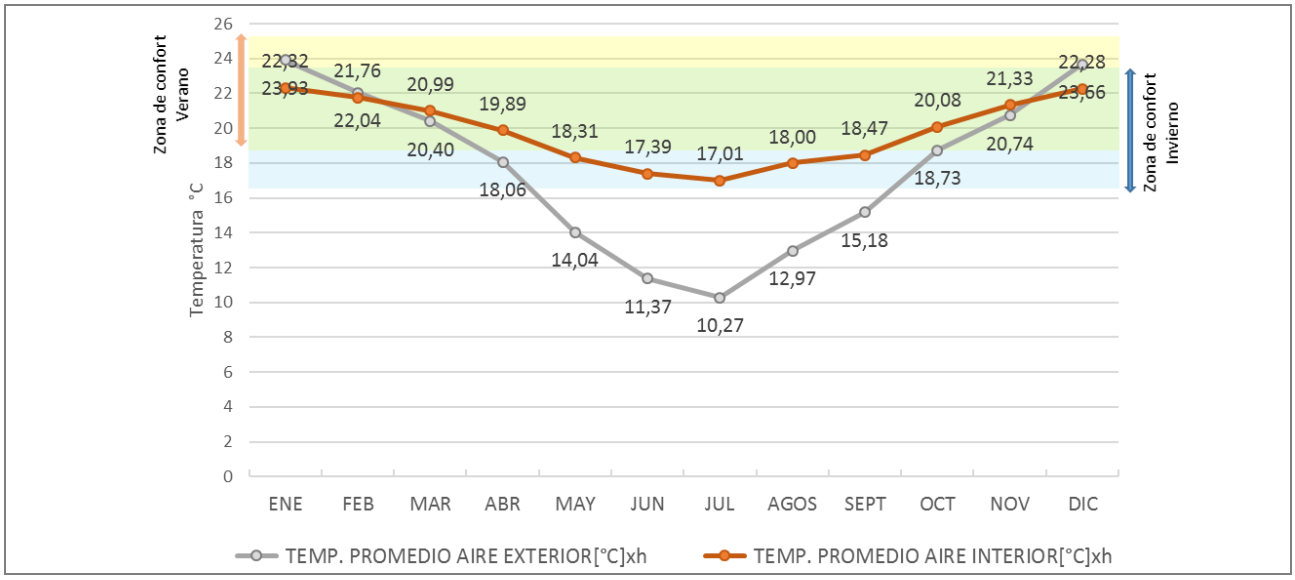

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,9 | 3,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,7** | **7,7** |
| | **Amortiguamiento:** | 0,058 | 0,058 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,7** | **7,4** |
| | **Amortiguamiento:** | 0,135 | 0,143 |

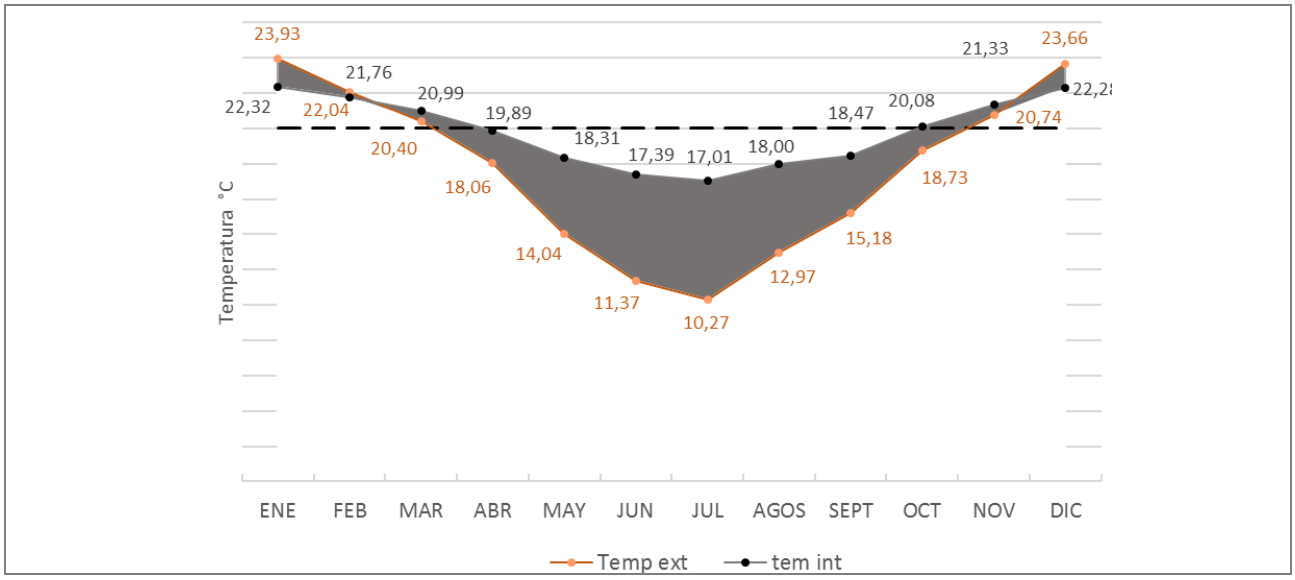
| EPS-004 | MU | ALMA EPS |
|---|---|---|

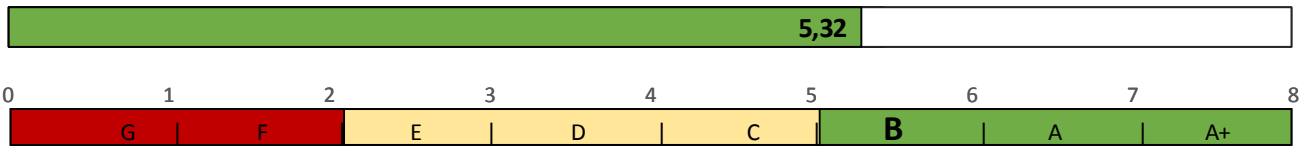
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,64** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,78** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



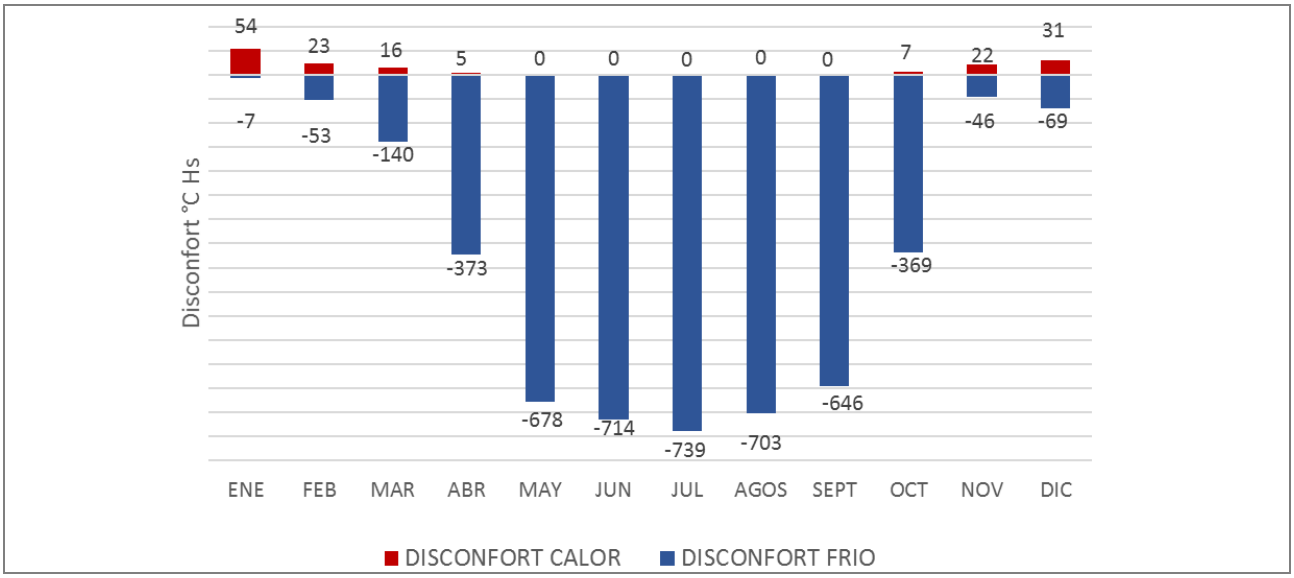




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| EPS-004 | MU | ALMA EPS |
|---|---|---|

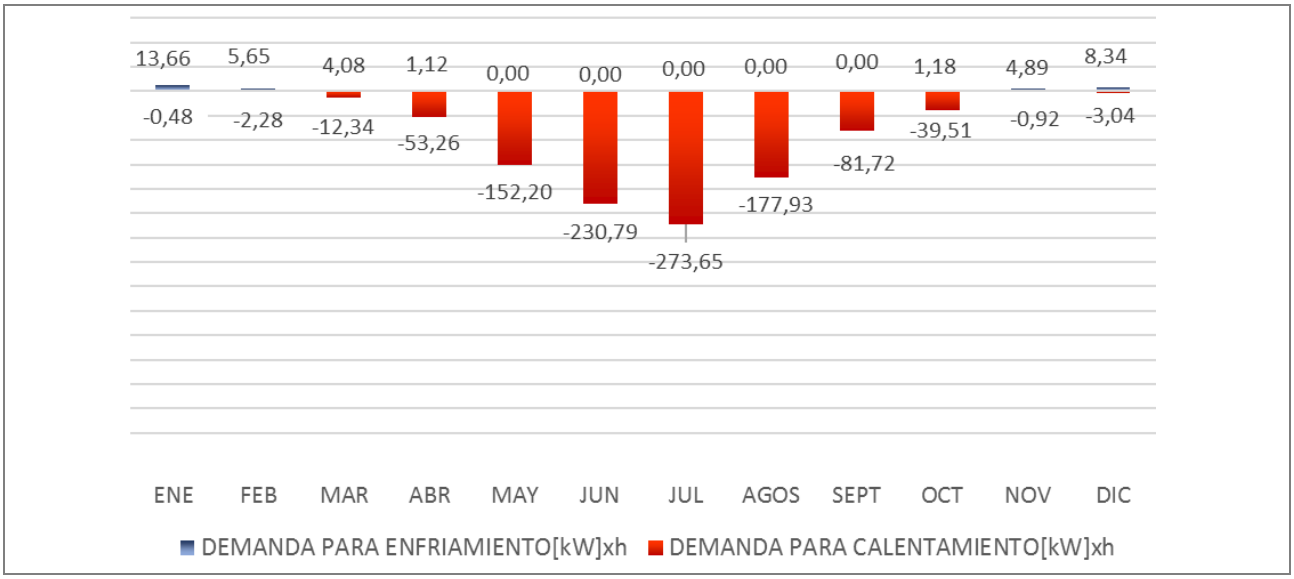
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **158** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.535** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.693** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

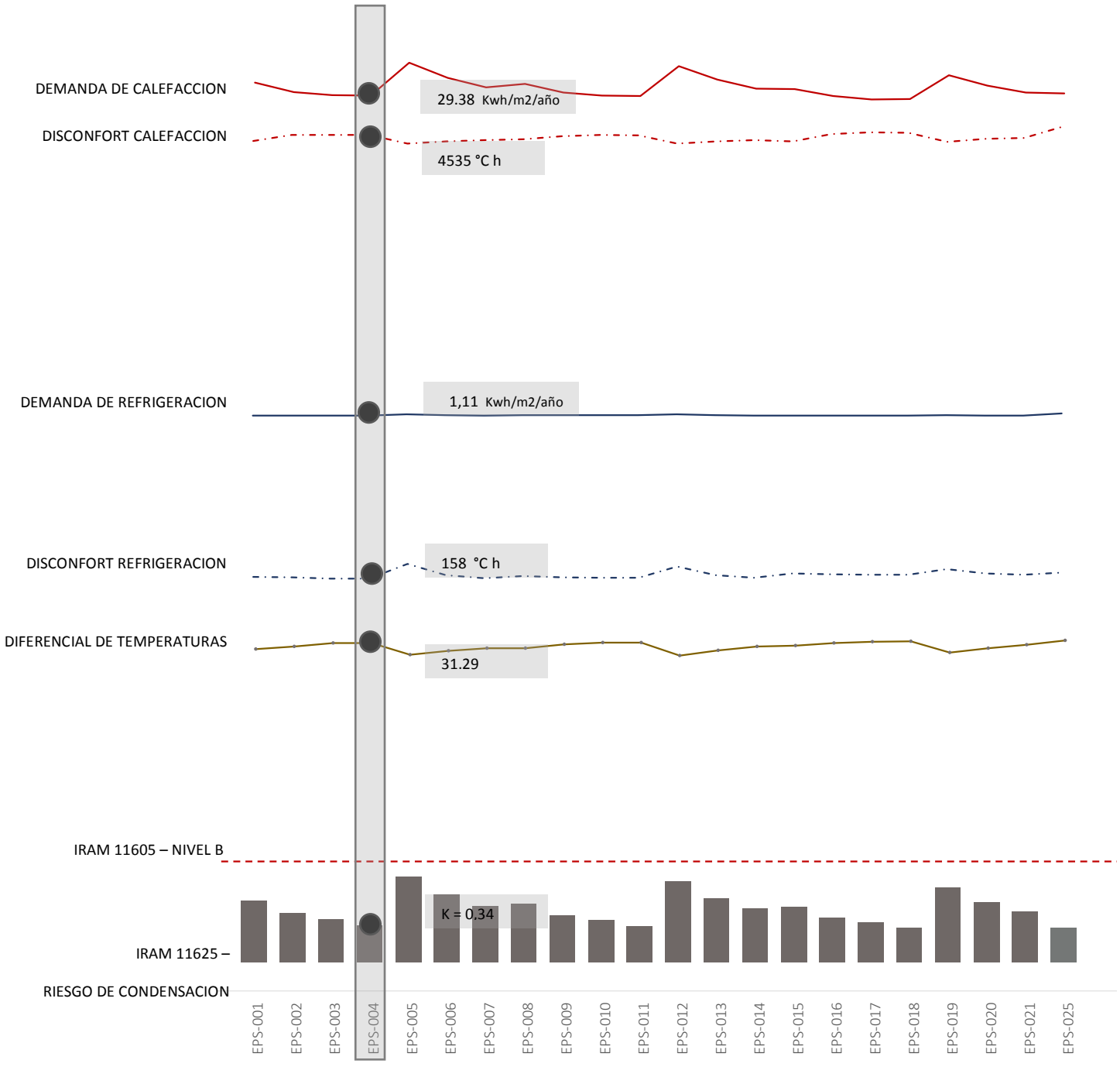



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **38,92** | kWh | 1,11 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.028,13** | kWh | 29,38 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.067,05** | kWh | **30,49** | kWh/m2/año |

| EPS-004 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 034 | N° 074 | N° 043 | N° 040 | N° 091 | N° 032 |



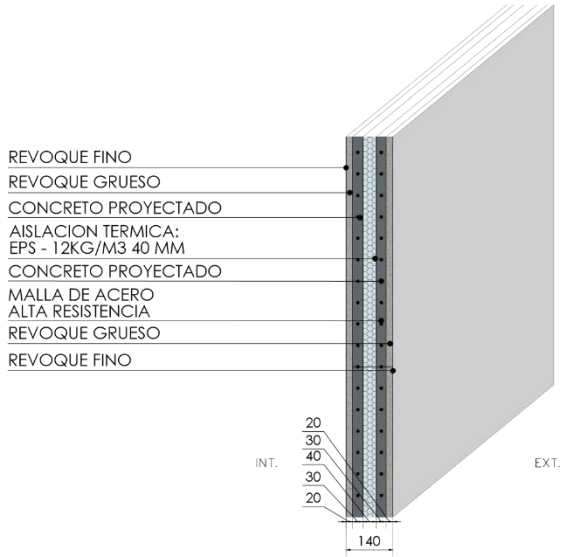

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,34 | 0% | 31,29 | 29,38 | 1,11 | 4535 | 158 |
| INC. FAMILIA | 68,88% | 0,00% | 101,09% | 94,94% | 91,70% | 100,41% | 83,00% |
| INC. MUNDIAL | 28,59% | 0,00% | 101,55% | 71,44% | 18,49% | 101,65% | 30,91% |

| EPS-005 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 10 CM (EMEDUE) PM40+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

## INDICE DE TRANSMITANCIA TERMICA "K"

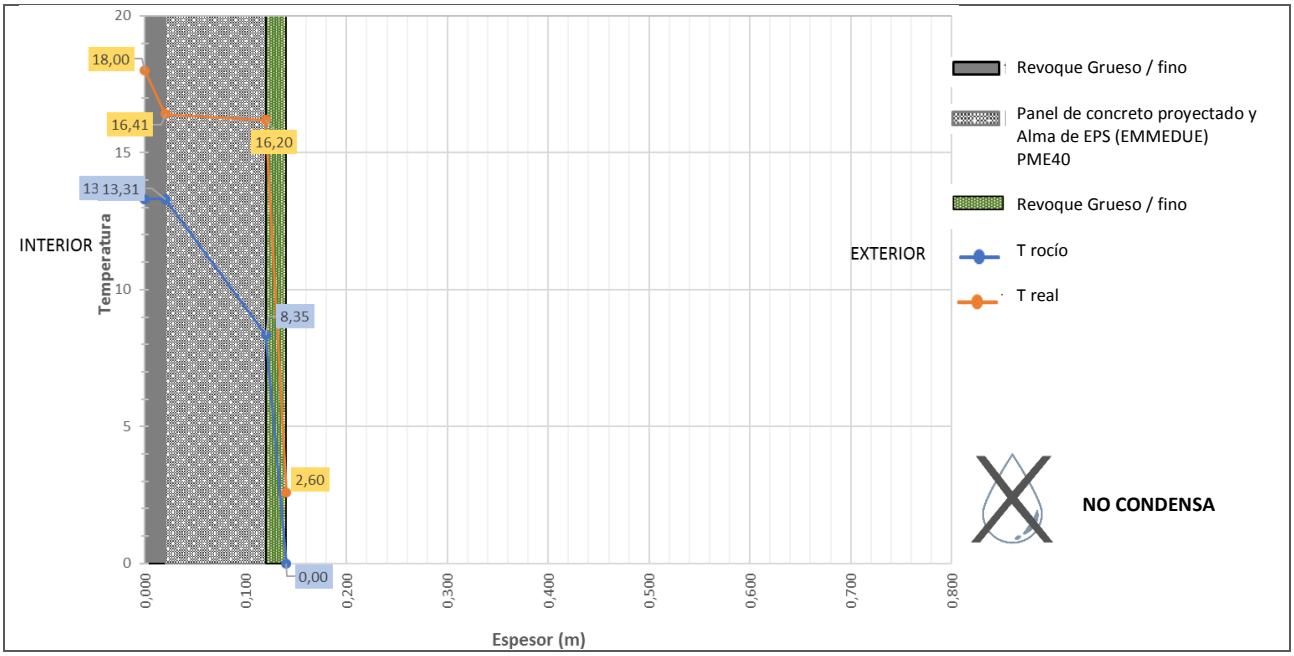
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,79 | 0,79 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



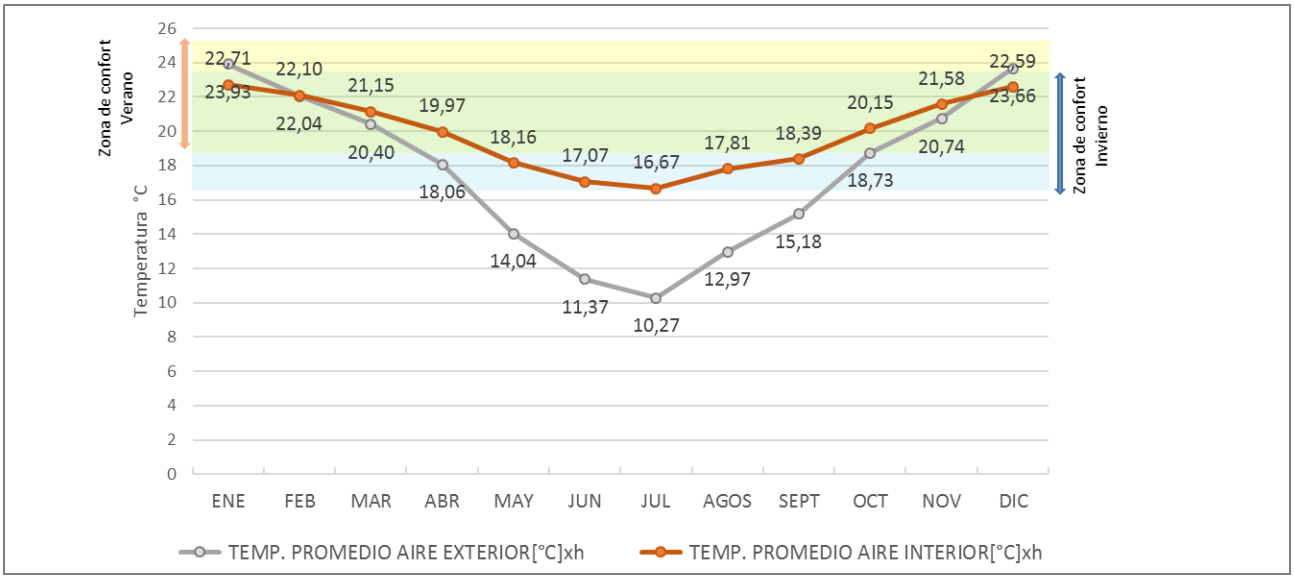

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 10,1 | Invierno 10,1 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,8** | **4,8** |
| | **Amortiguamiento:** | 0,170 | 0,170 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,1** | **4,7** |
| | **Amortiguamiento:** | 0,265 | 0,290 |

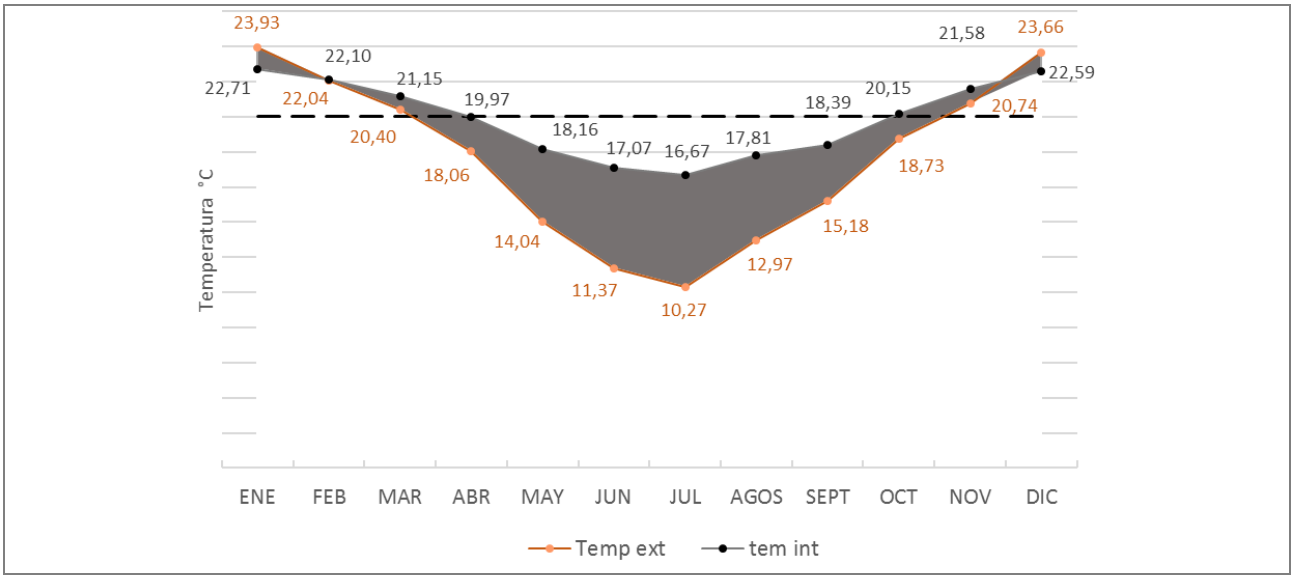
| EPS-005 | MU | ALMA EPS |
|---|---|---|

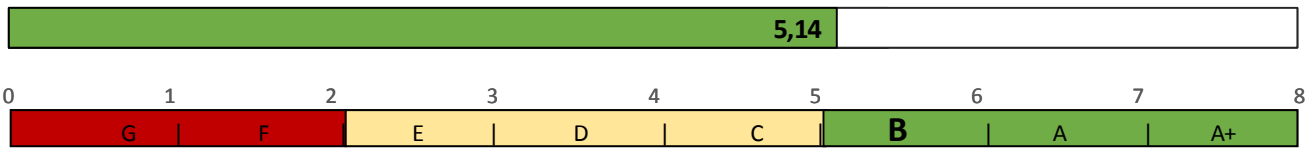
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,19** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,96** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



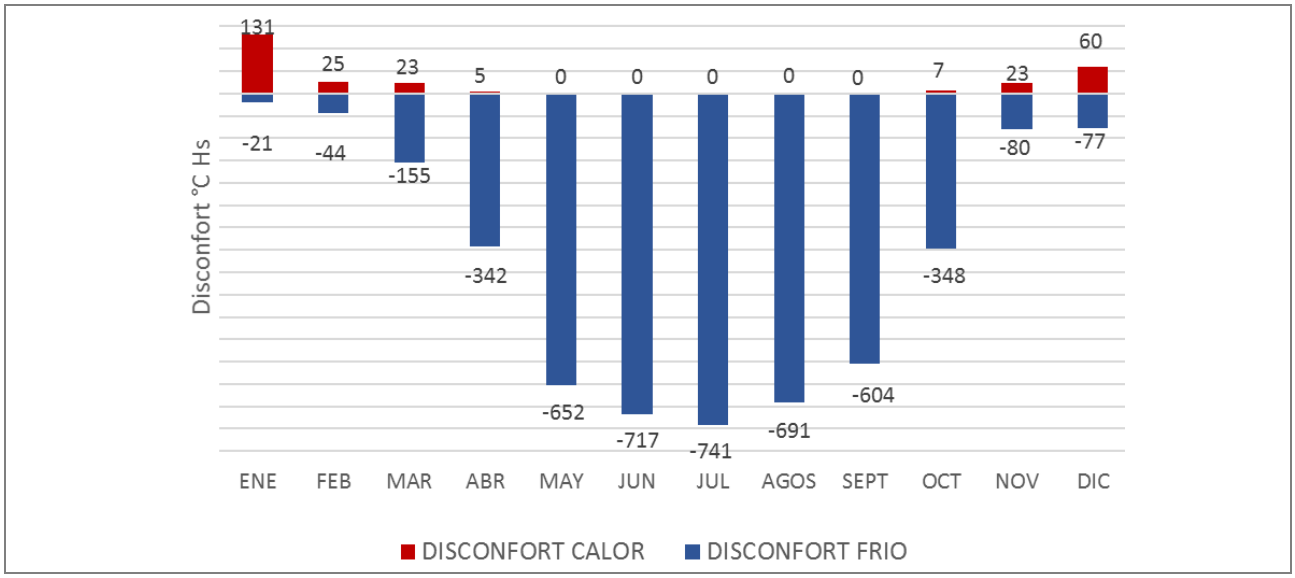




5,14 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| EPS-005 | MU | ALMA EPS |
|---|---|---|

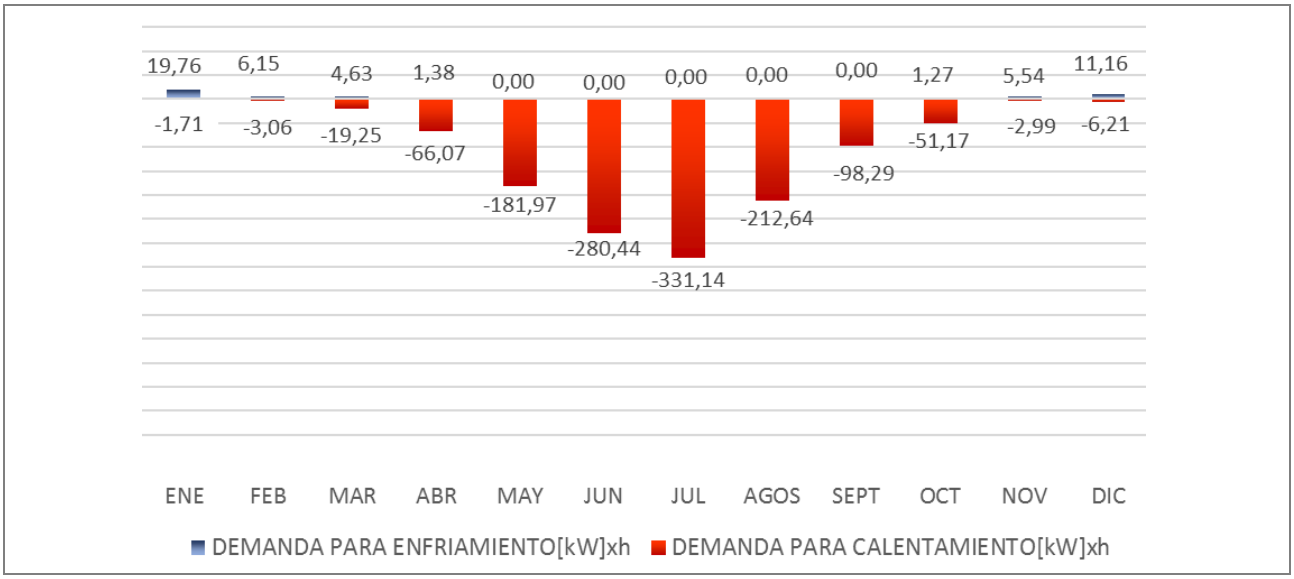
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **275** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.472** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.748** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

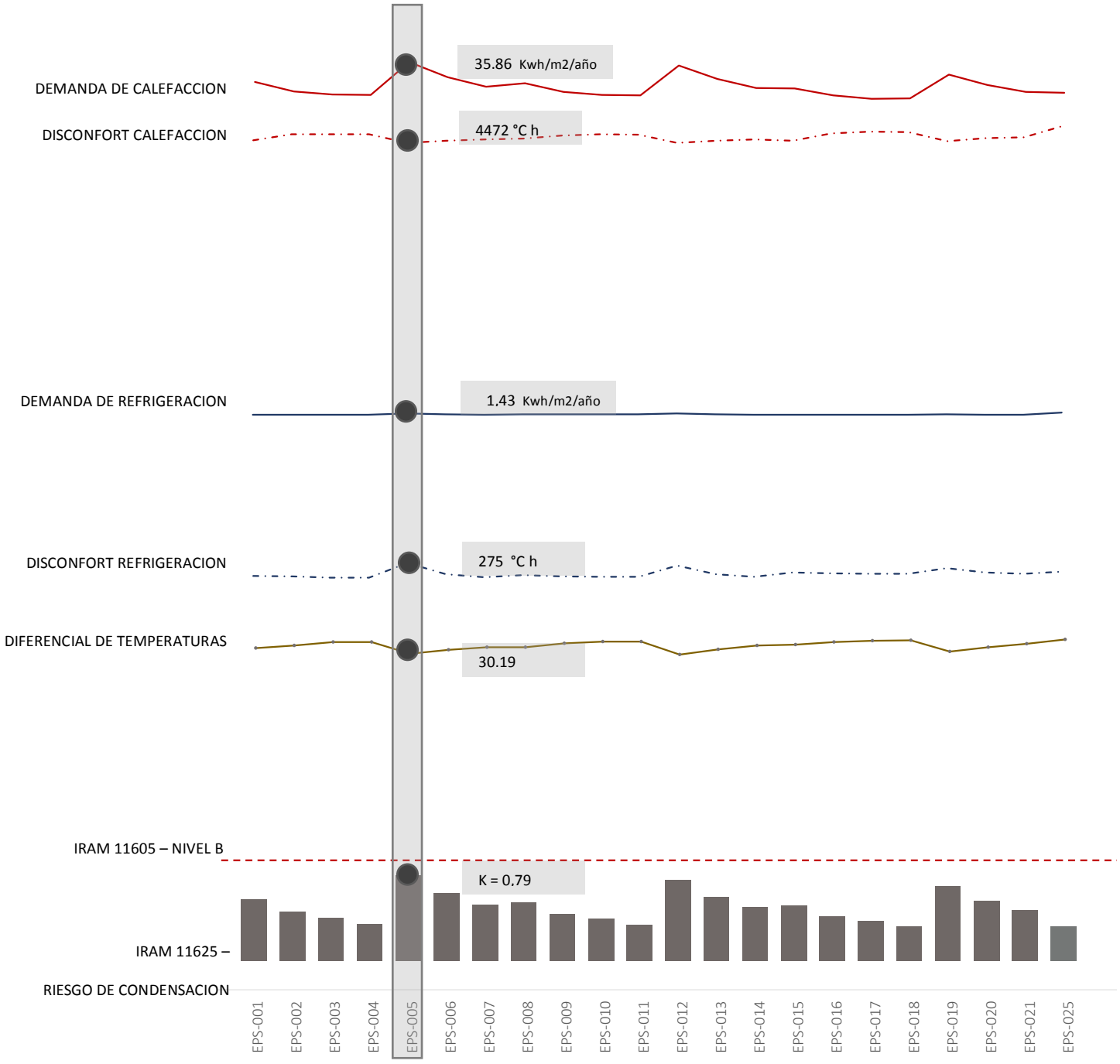



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **49,88** | kWh | 1,43 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.254,93** | kWh | 35,86 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.304,81** | kWh | **37,28** | kWh/m2/año |

| EPS-005 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 164 | N° 163 | N° 156 | N° 093 | N° 029 | N° 138 |



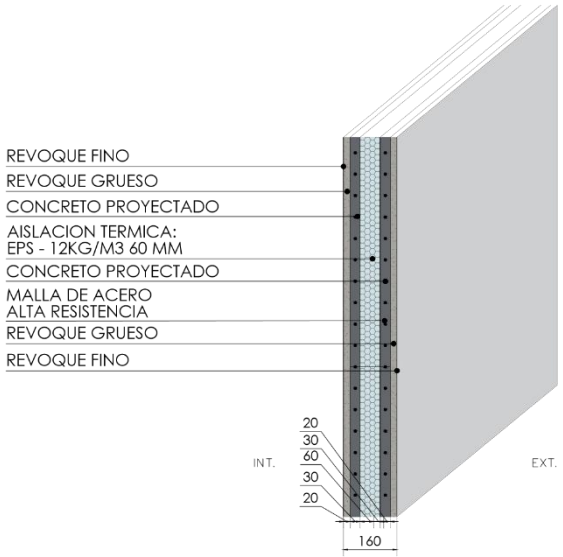

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,79 | 0% | 30,19 | 35,86 | 1,43 | 4472 | 275 |
| INC. FAMILIA | 160,04% | 0,00% | 97,53% | 115,88% | 118,14% | 99,02% | 144,46% |
| INC. MUNDIAL | 66,42% | 0,00% | 97,98% | 87,20% | 23,83% | 100,23% | 53,80% |

| EPS-006 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (EMEDUE) PM60+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

## INDICE DE TRANSMITANCIA TERMICA "K"

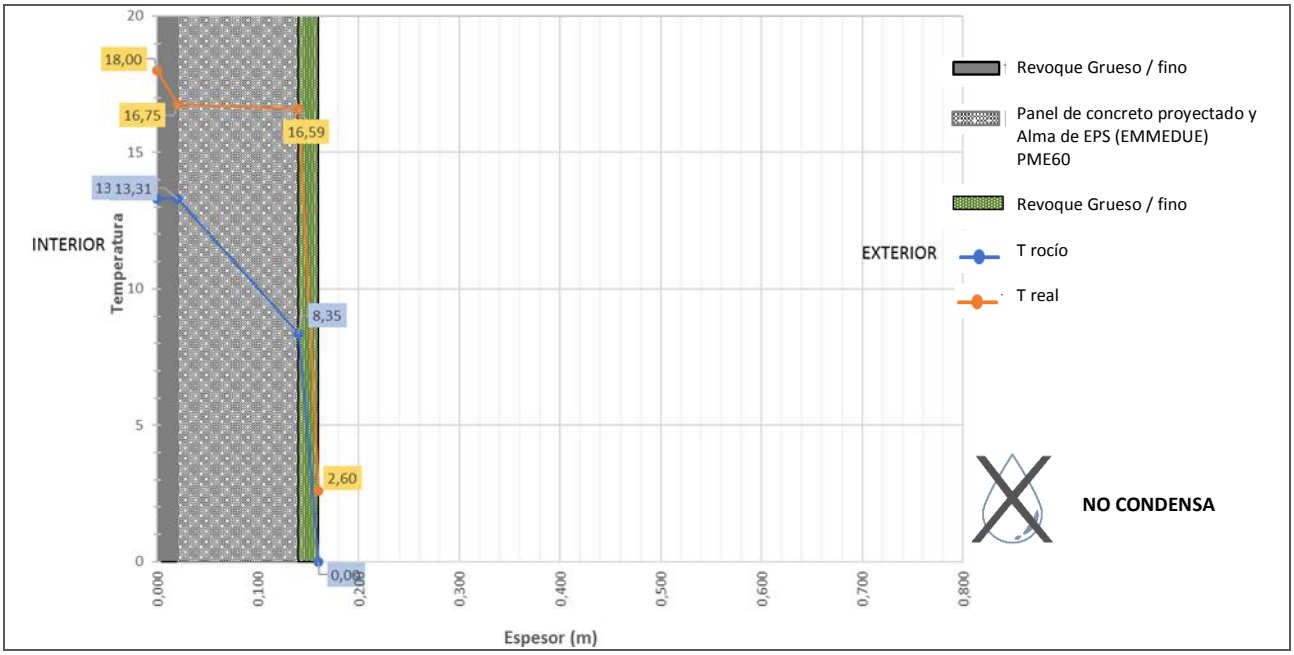
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,62 | 0,62 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



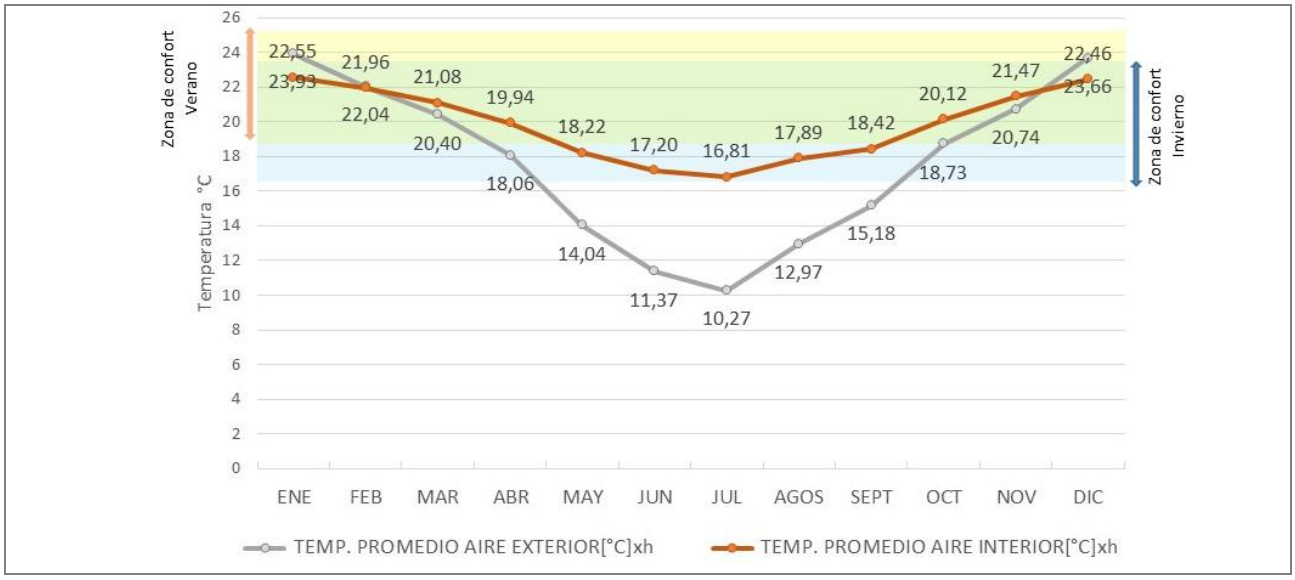

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 7,7 | 7,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,5** | **5,5** |
| | **Amortiguamiento:** | 0,131 | 0,131 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,7** | **5,4** |
| | **Amortiguamiento:** | 0,225 | 0,244 |

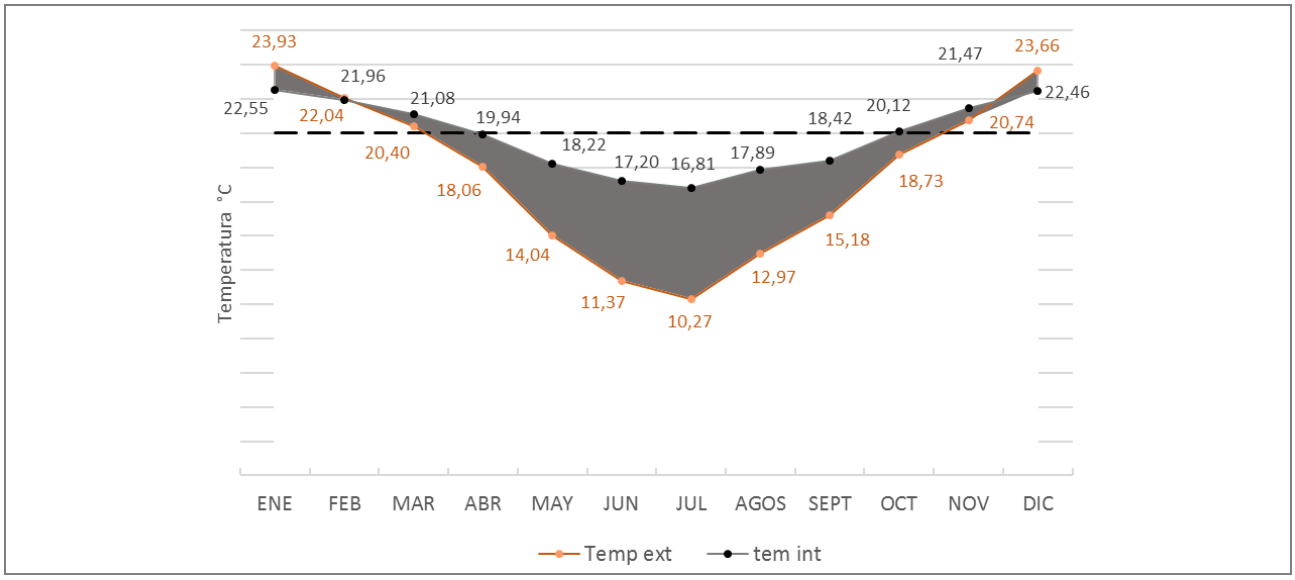
| EPS-006 | MU | ALMA EPS |
|---|---|---|

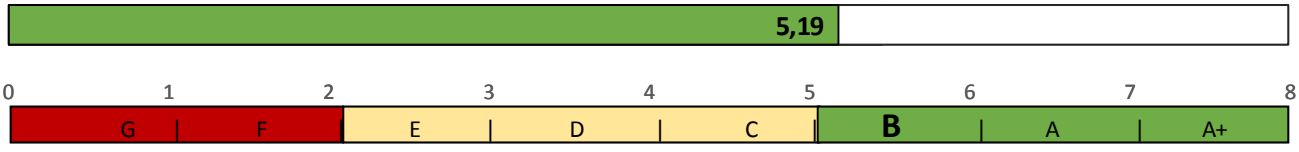
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,19** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,96** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



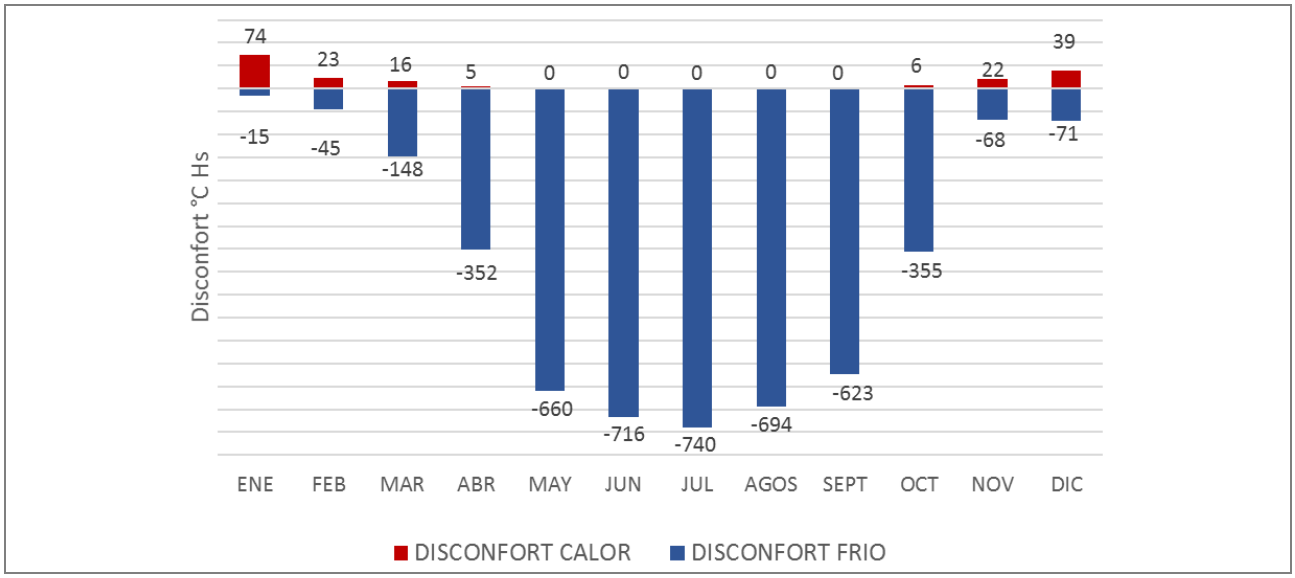




5,19 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| EPS-006 | MU | ALMA EPS |
|---|---|---|

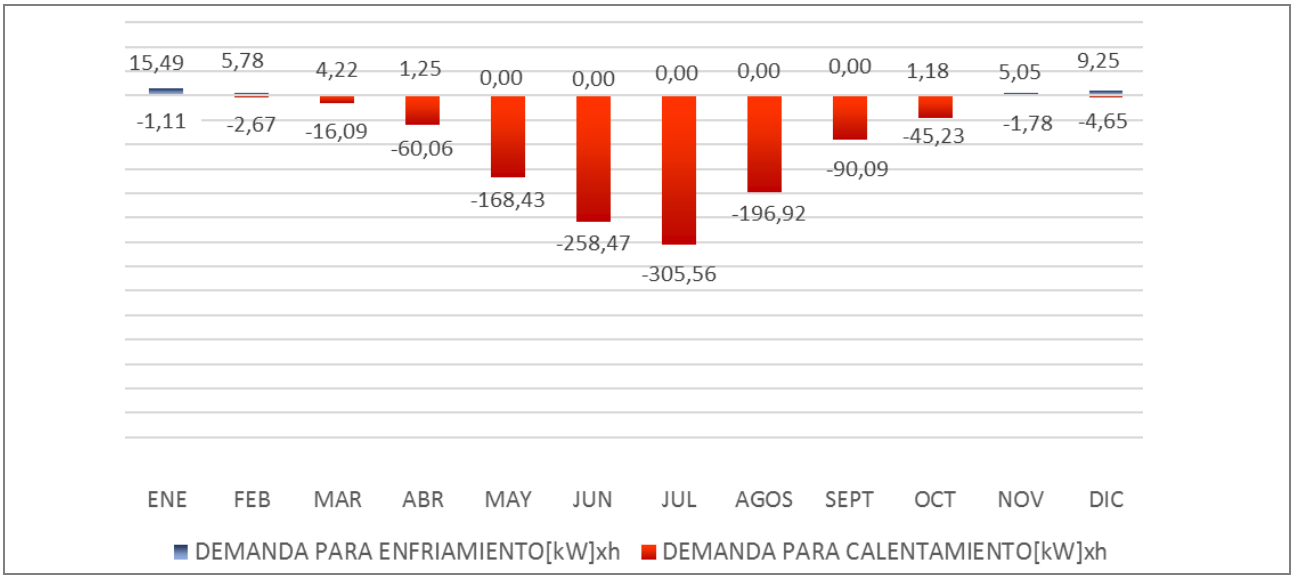
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **186** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.487** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.673** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

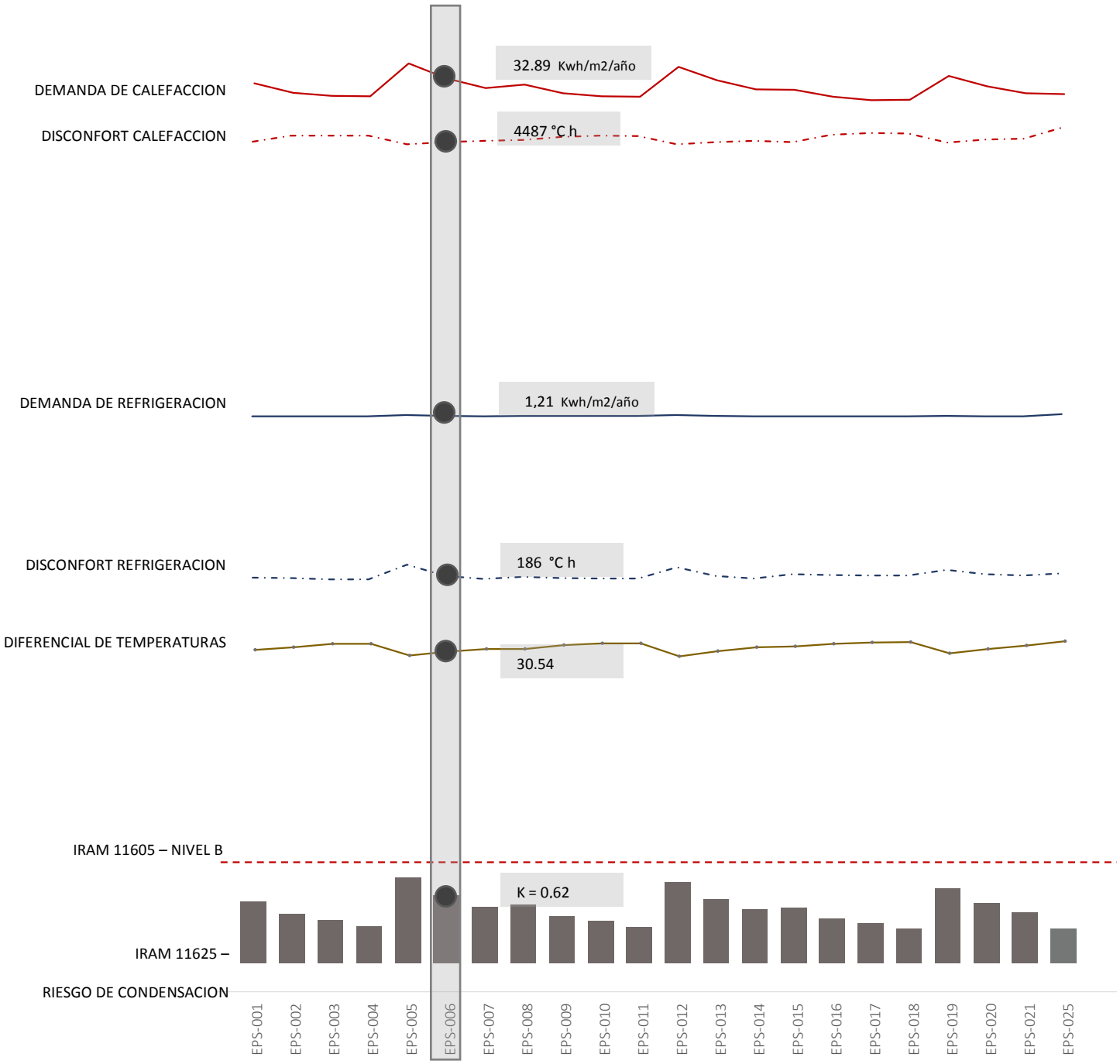



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,23** | kWh | 1,21 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.151,06** | kWh | 32,89 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.193,29** | kWh | **34,09** | kWh/m2/año |

| EPS-006 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N°147 | N° 149 | N° 131 | N° 062 | N° 039 | N° 066 |



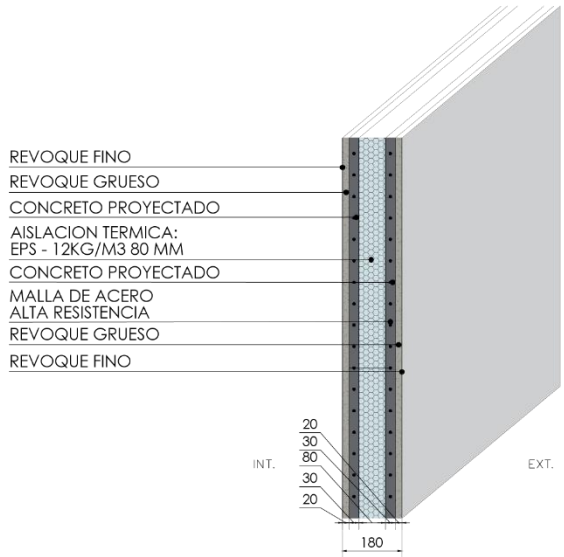

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,62 | 0% | 30,54 | 32,89 | 1,21 | 4487 | 186 |
| INC. FAMILIA | 125,60% | 0,00% | 98,66% | 106,28% | 99,96% | 99,35% | 97,71% |
| INC. MUNDIAL | 52,13% | 0,00% | 99,11% | 79,97% | 20,16% | 100,57% | 36,39% |

| EPS-007 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (EMEDUE) PM80+ TERMINACIÓN INTERIOR Y EXTERIOR REVOQUE GRUESO Y FINO.

## INDICE DE TRANSMITANCIA TERMICA "K"

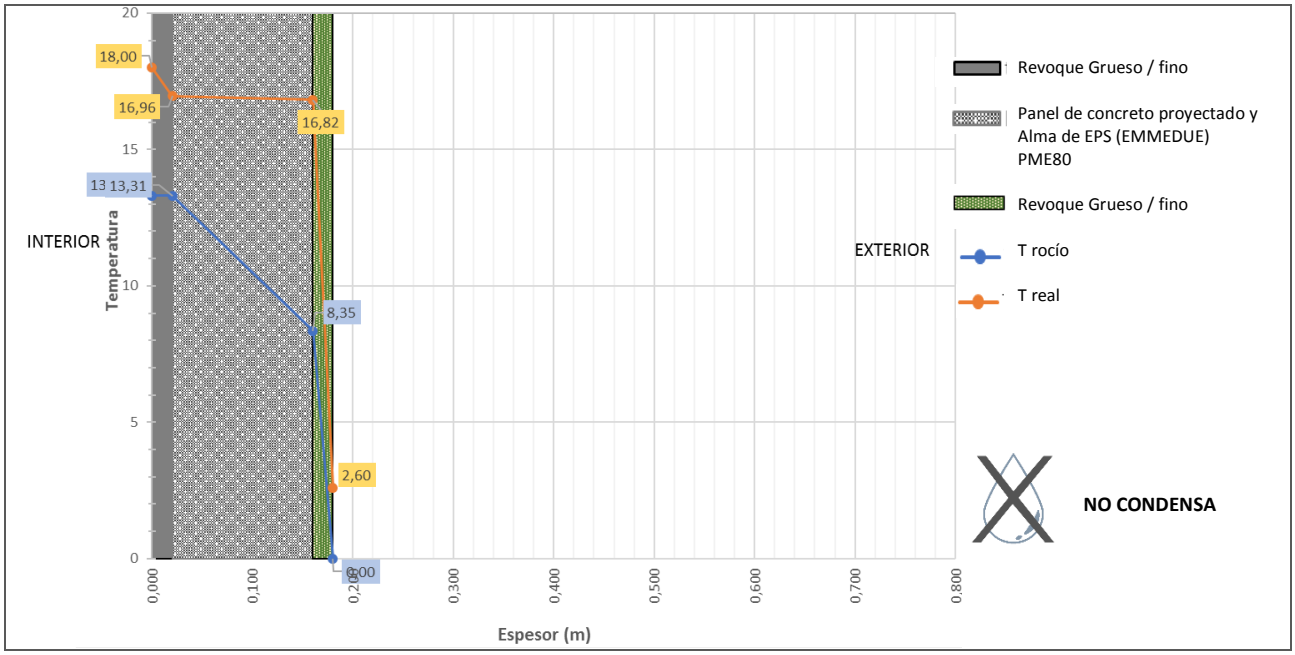
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,52 | 0,52 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 6,3 | 6,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,1** | **6,1** |
| | **Amortiguamiento:** | 0,106 | 0,106 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,2** | **5,9** |
| | **Amortiguamiento:** | 0,198 | 0,213 |

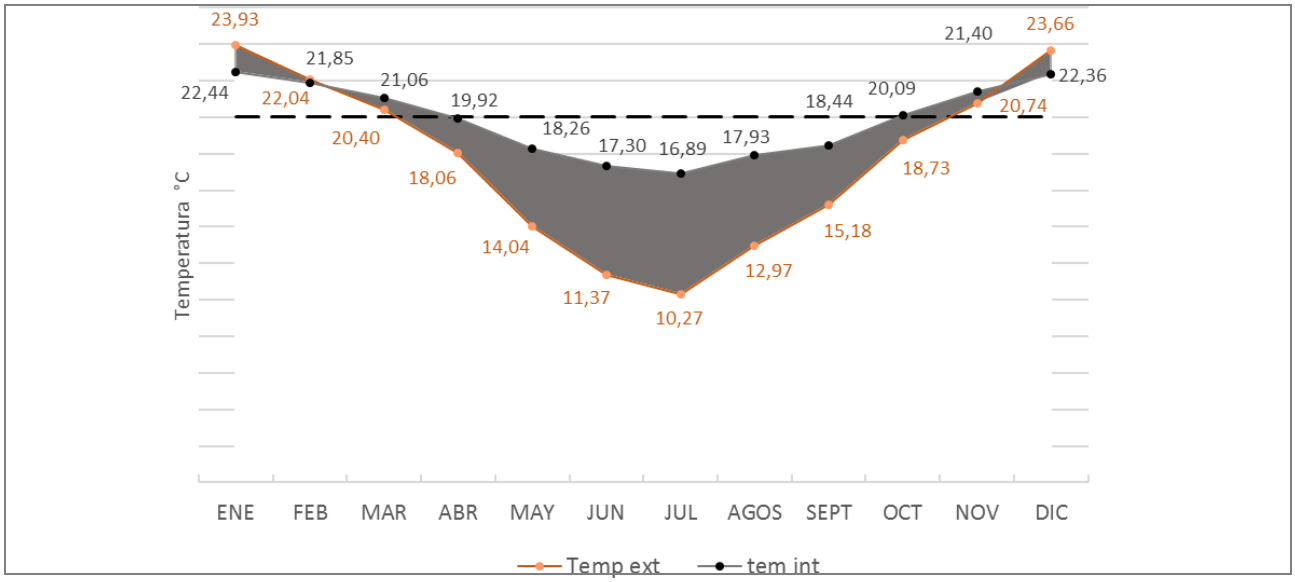
| EPS-007 | MU | ALMA EPS |
|---|---|---|

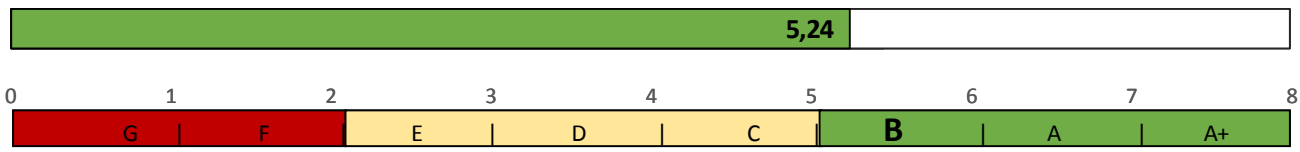
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,80** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,61** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



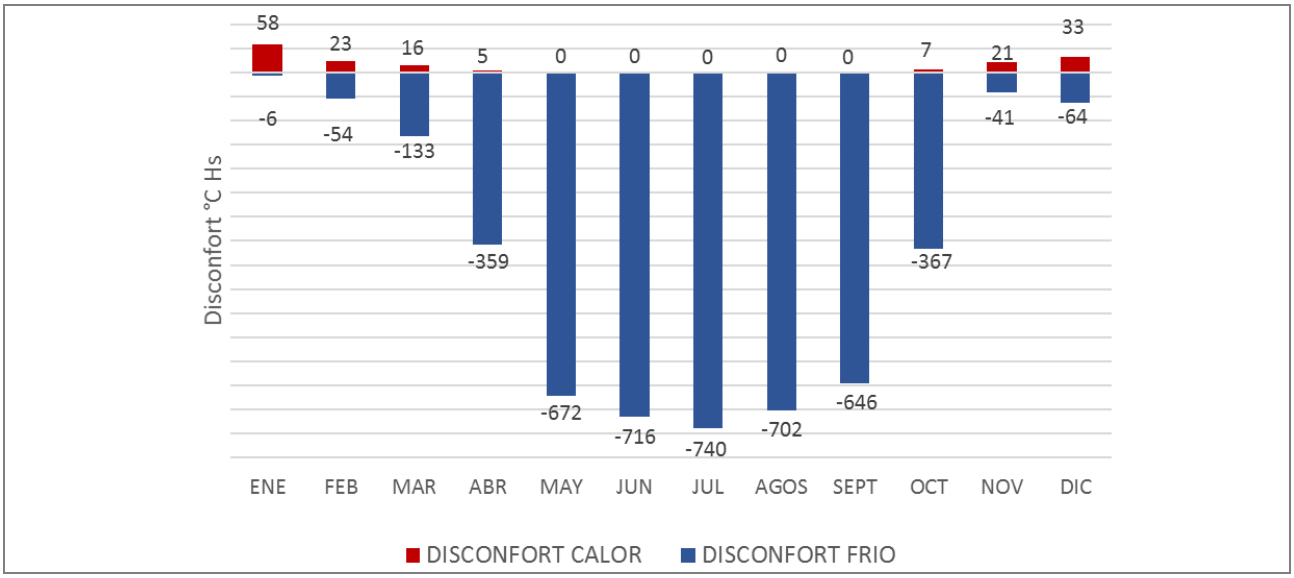




5,24 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| EPS-007 | MU | ALMA EPS |
|---|---|---|

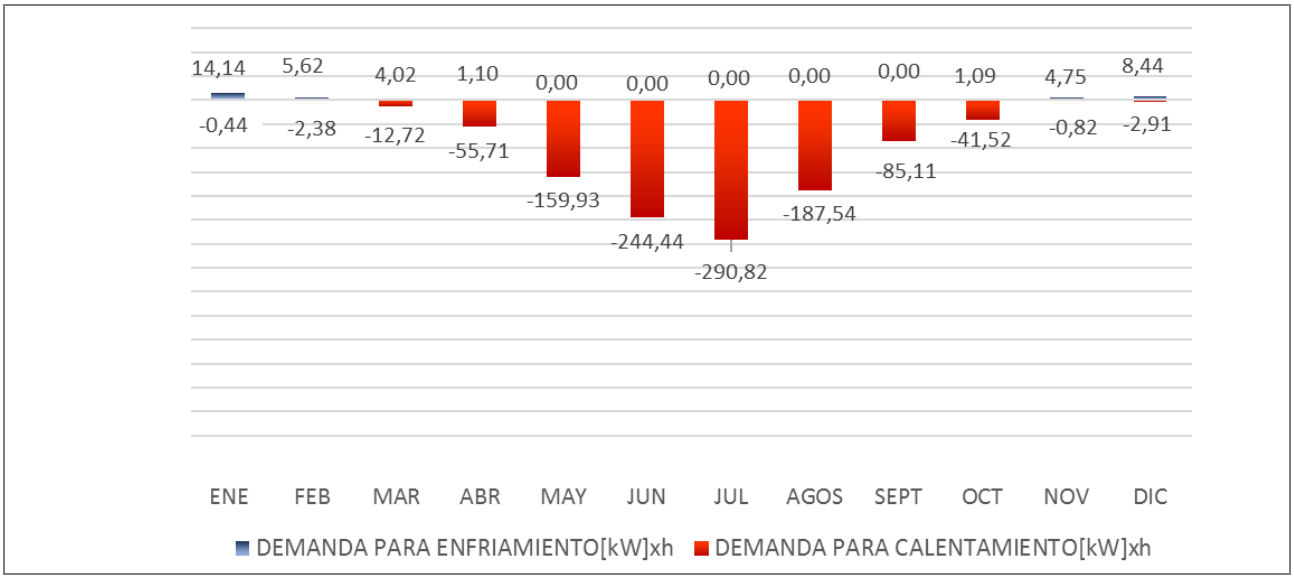
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **162** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.499** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.661** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

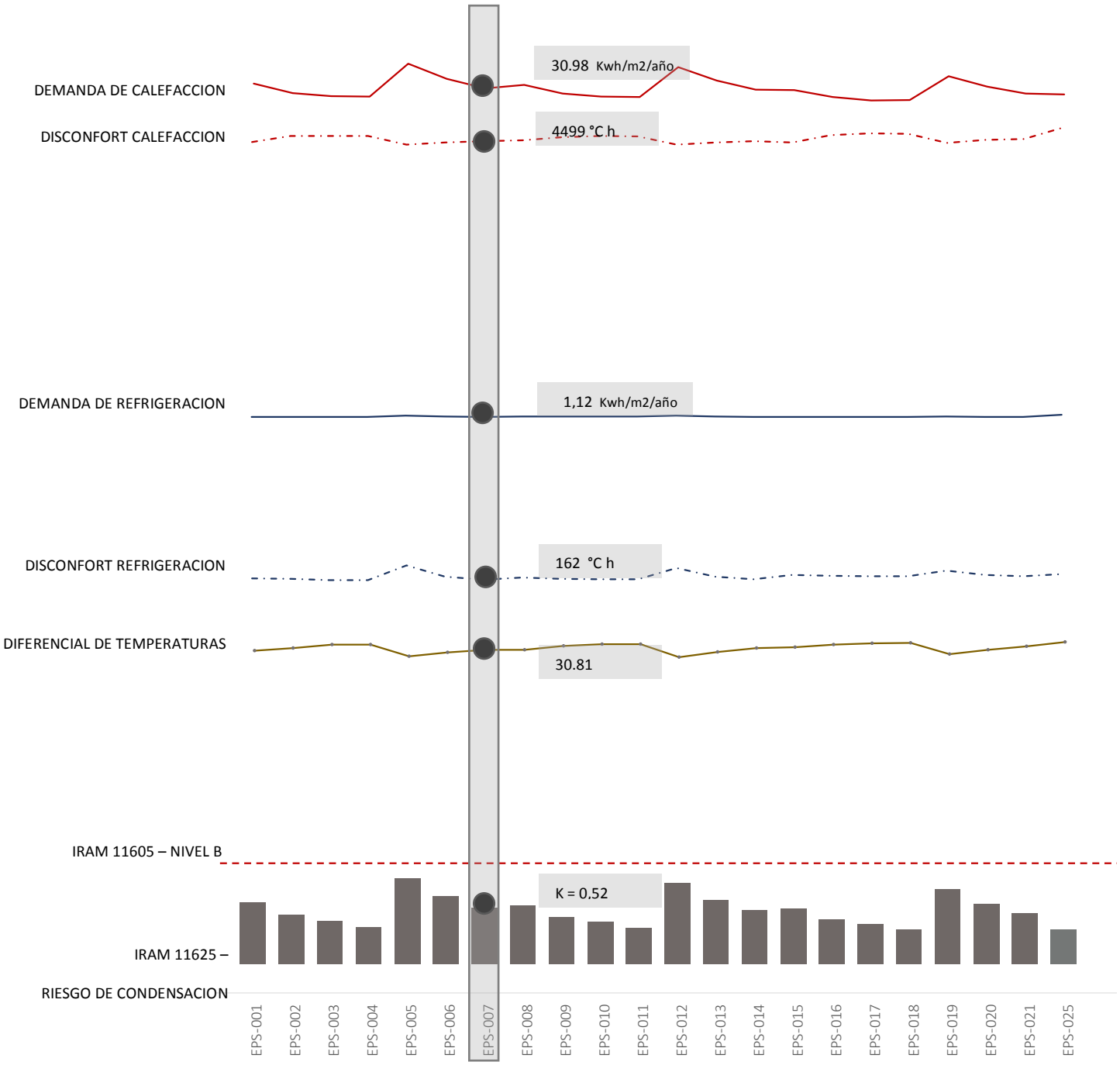



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **39,17** | kWh | 1,12 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.084,34** | kWh | 30,98 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.123,50** | kWh | **32,10** | kWh/m2/año |

| EPS-007 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 129 | N° 131 | N° 096 | N° 042 | N° 055 | N° 034 |



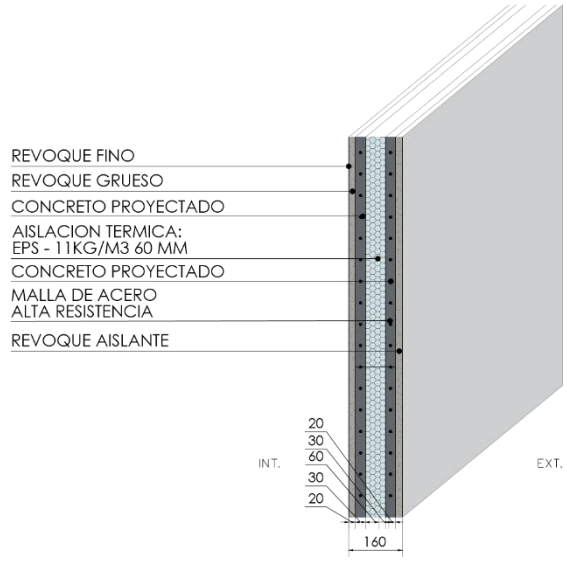

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,52 | 0% | 30,81 | 30,98 | 1,12 | 4499 | 162 |
| INC. FAMILIA | 105,34% | 0,00% | 99,53% | 100,11% | 92,53% | 99,62% | 85,10% |
| INC. MUNDIAL | 43,72% | 0,00% | 99,99% | 75,33% | 18,66% | 100,84% | 31,69% |

| EPS-008 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (CONCREHAUS) PM60 + TERMINACIÓN INTERIOR REVOQUE GRUESO Y FINO + EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

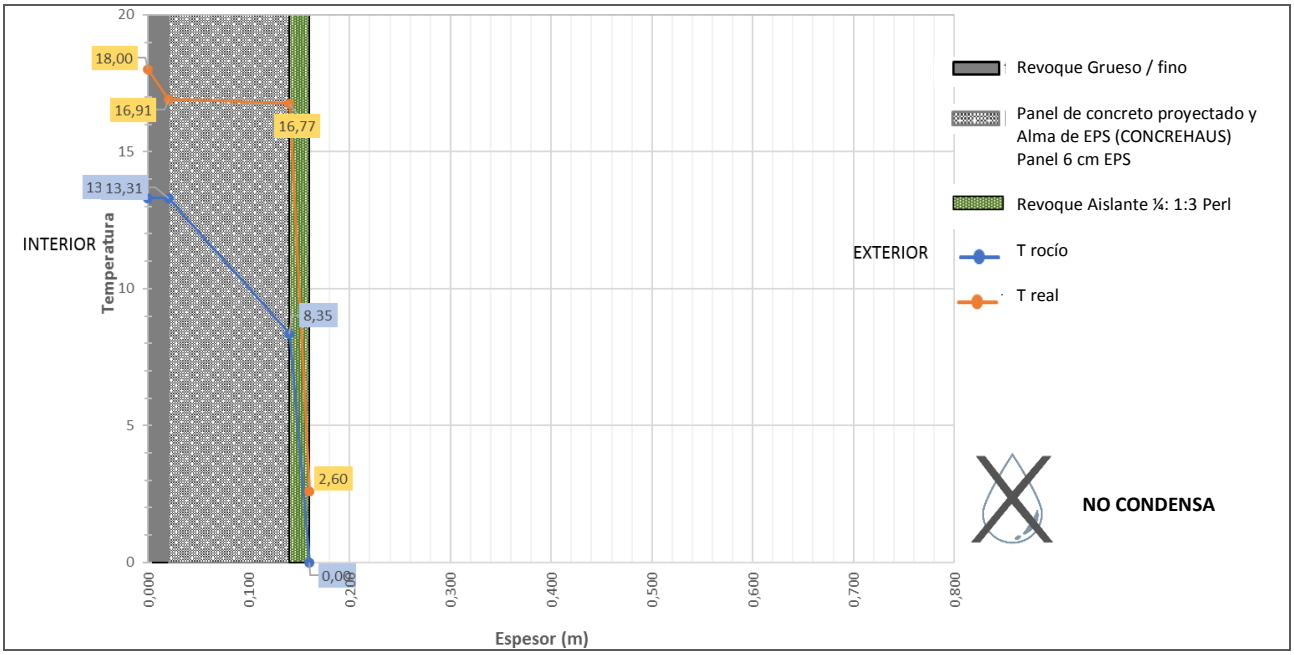
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,54 | 0,54 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



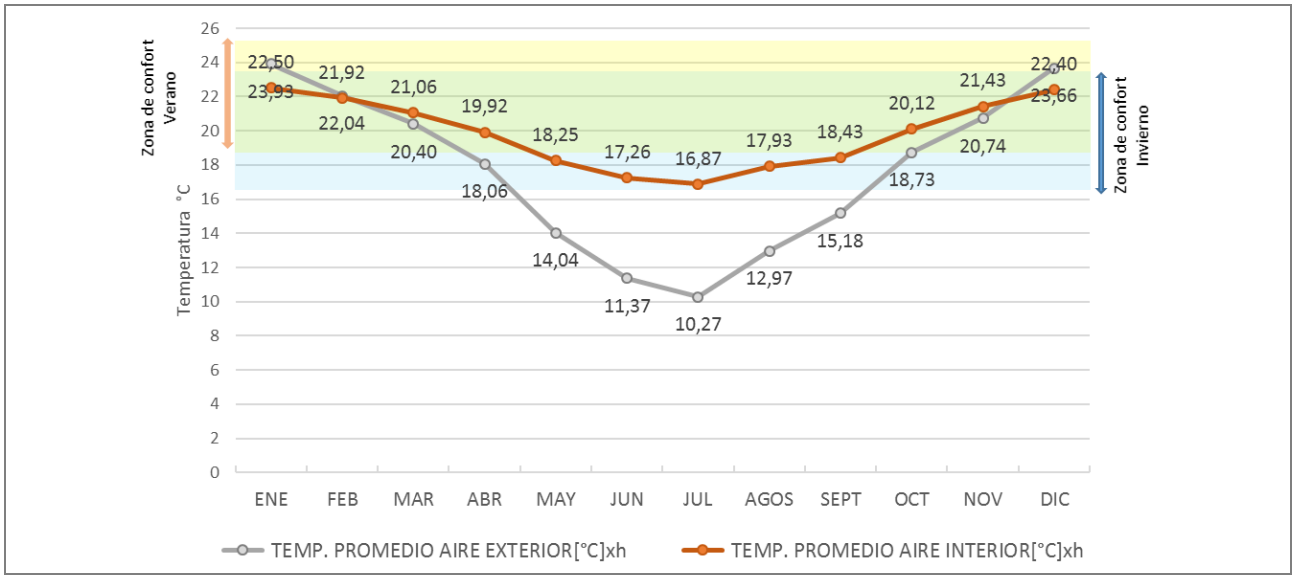

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 3,0 | Invierno 6,6 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,0** | **5,9** |
| | **Amortiguamiento:** | 0,230 | 0,112 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,2** | **5,8** |
| | **Amortiguamiento:** | 0,332 | 0,221 |

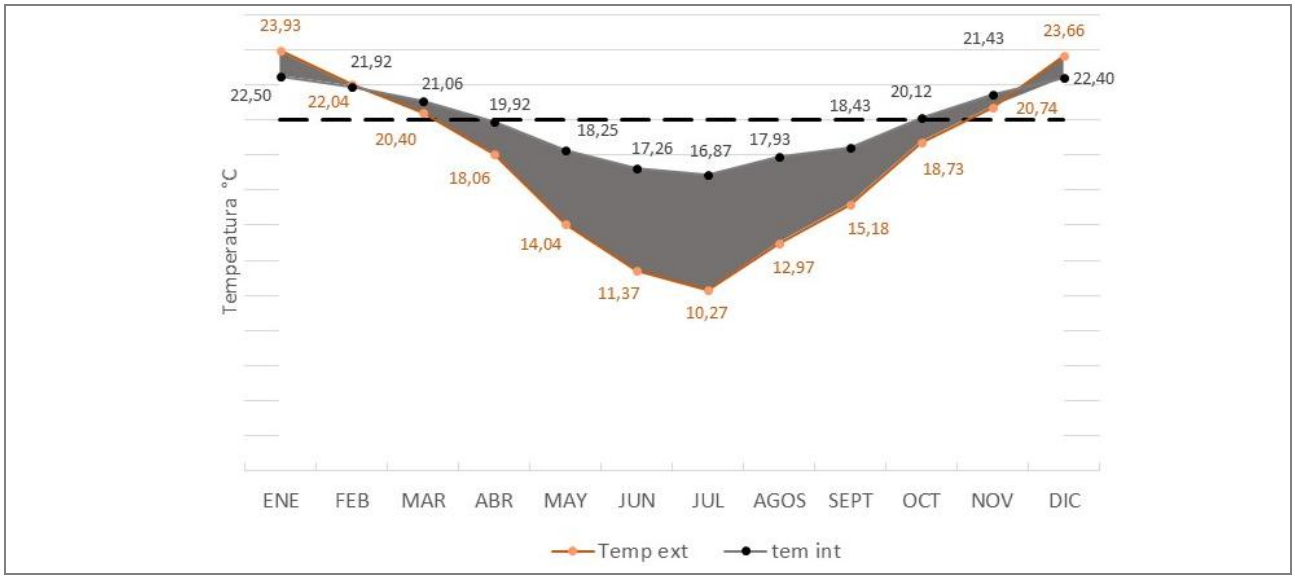
| EPS-008 | MU | ALMA EPS |
|---|---|---|

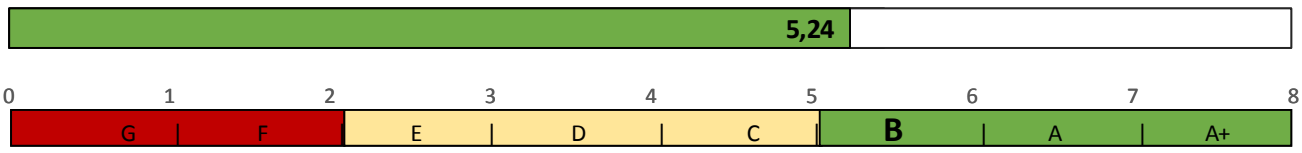
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,81** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,48** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



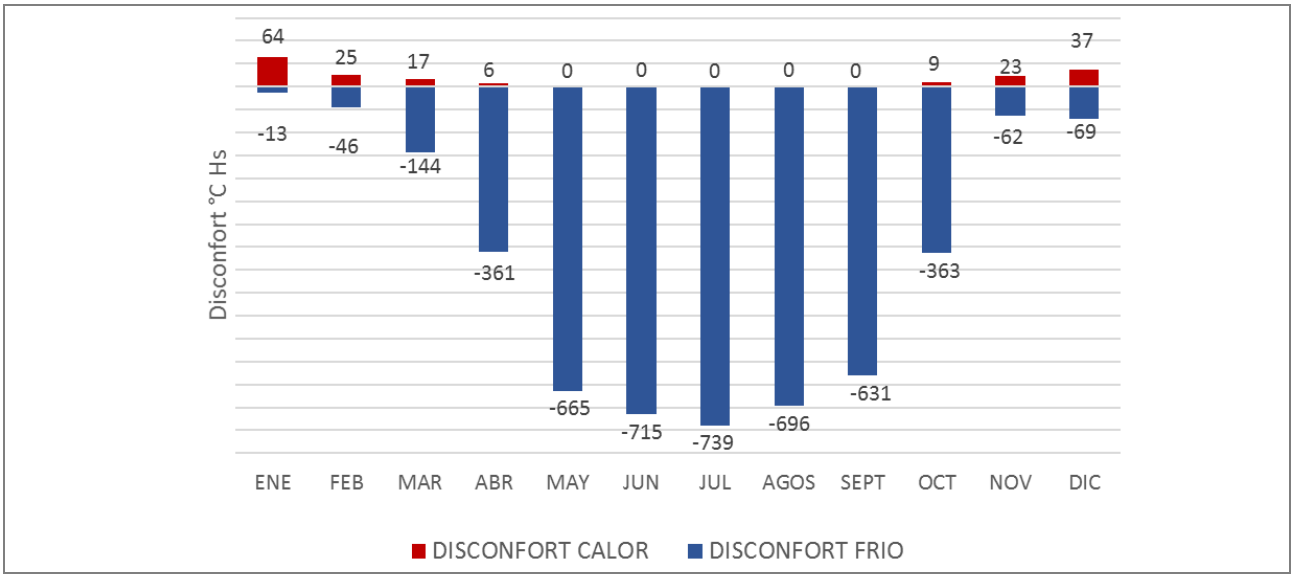




5,24 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| EPS-008 | MU | ALMA EPS |
|---|---|---|

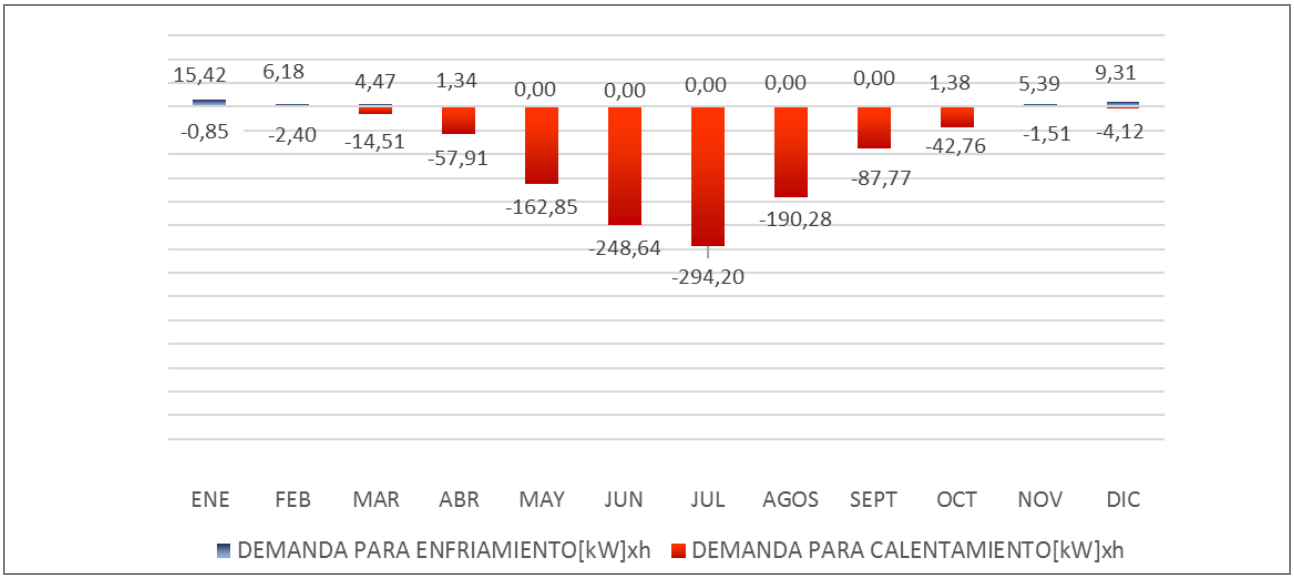
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **181** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.504** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.685** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

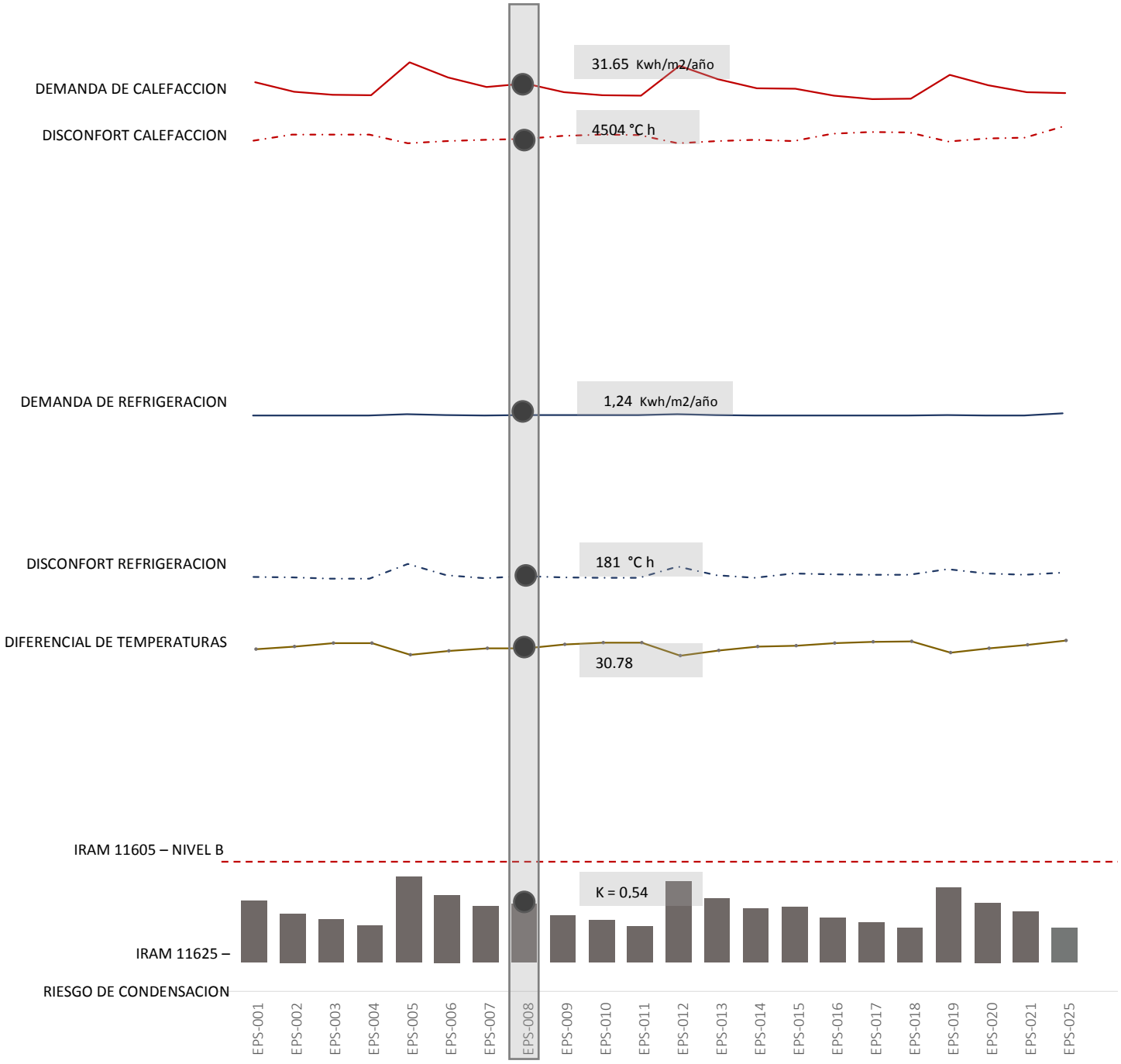



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **43,49** | kWh | 1,24 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.107,82** | kWh | 31,65 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.151,31** | kWh | **32,89** | kWh/m2/año |

| EPS-008 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 132 | N° 138 | N° 109 | N° 069 | N° 060 | N° 060 |



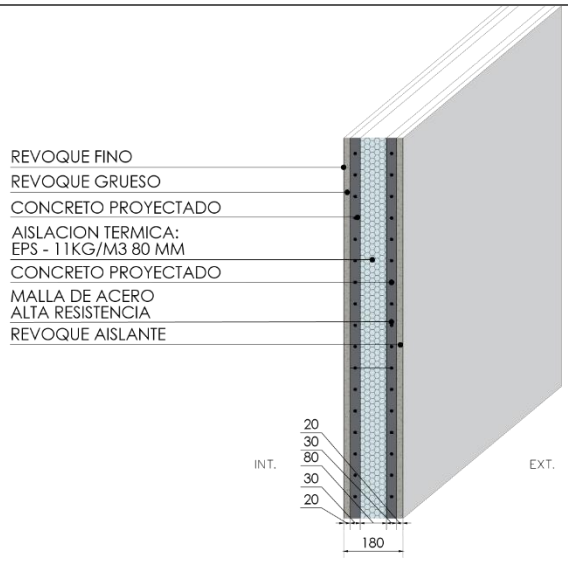

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,54 | 0% | 30,78 | 31,65 | 1,24 | 4504 | 181 |
| INC. FAMILIA | 109,39% | 0,00% | 99,44% | 102,28% | 102,44% | 99,73% | 95,08% |
| INC. MUNDIAL | 45,40% | 0,00% | 99,89% | 76,96% | 20,66% | 100,95% | 35,41% |

| EPS-009 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CONCREHAUS) PM80 + TERMINACIÓN INTERIOR REVOQUE GRUESO Y FINO + EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

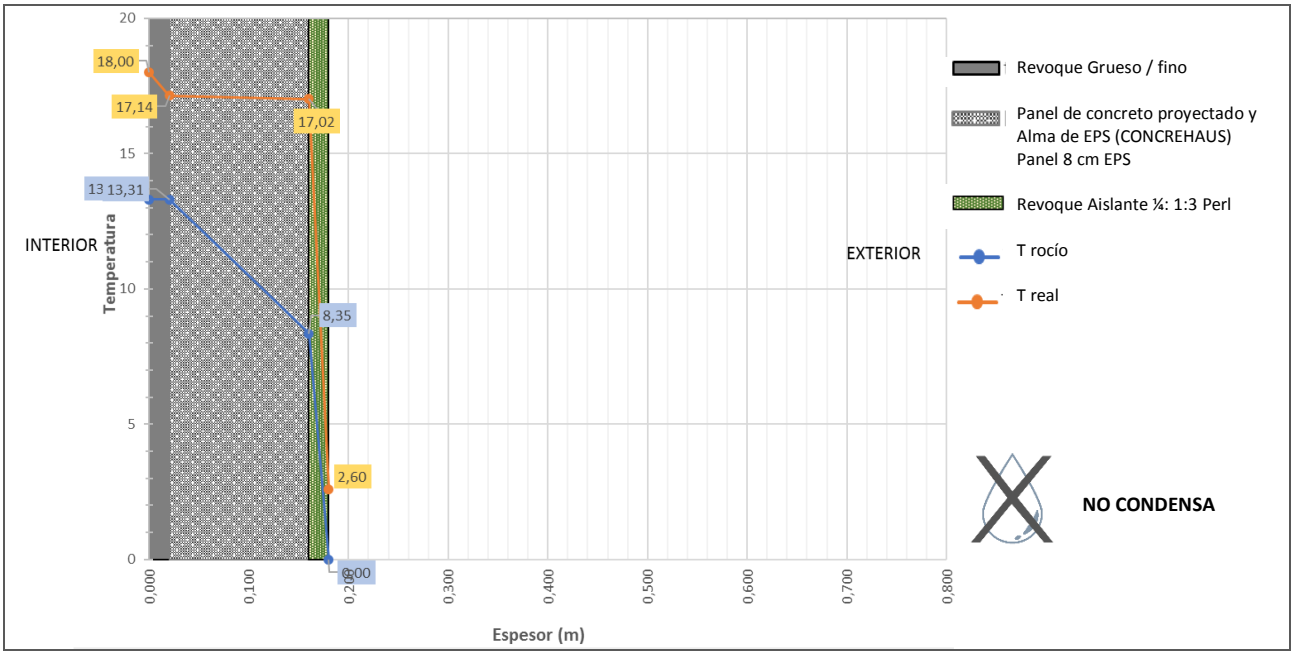
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,43 | 0,43 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



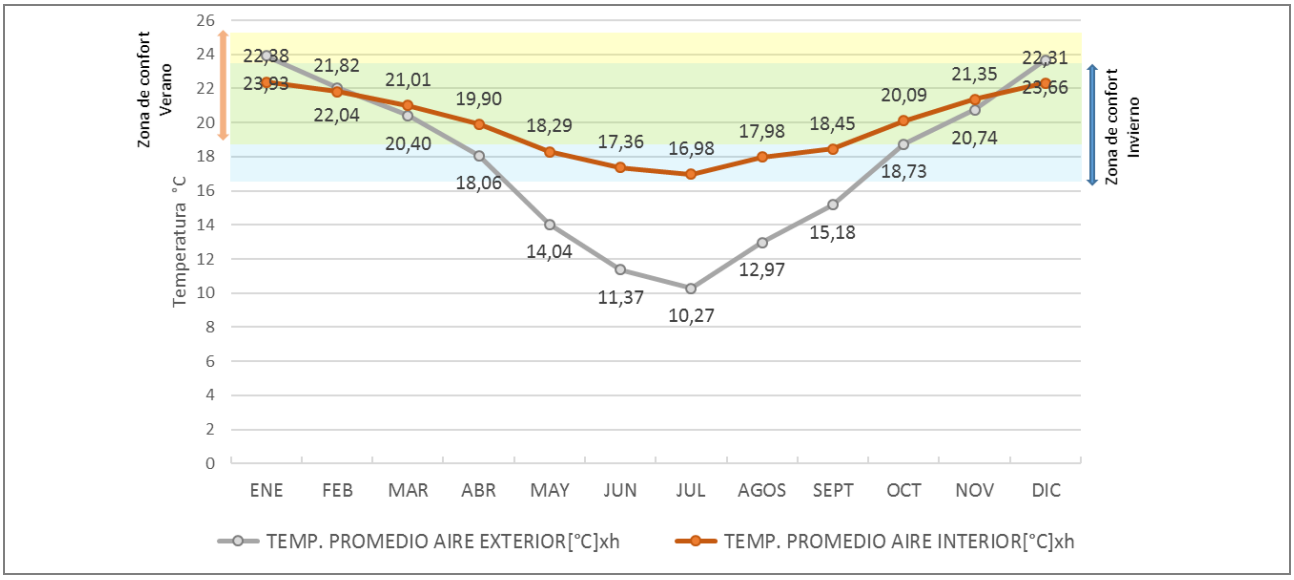

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,3 | 5,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,5** | **6,7** |
| | **Amortiguamiento:** | 0,189 | 0,083 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,7** | **6,5** |
| | **Amortiguamiento:** | 0,294 | 0,182 |

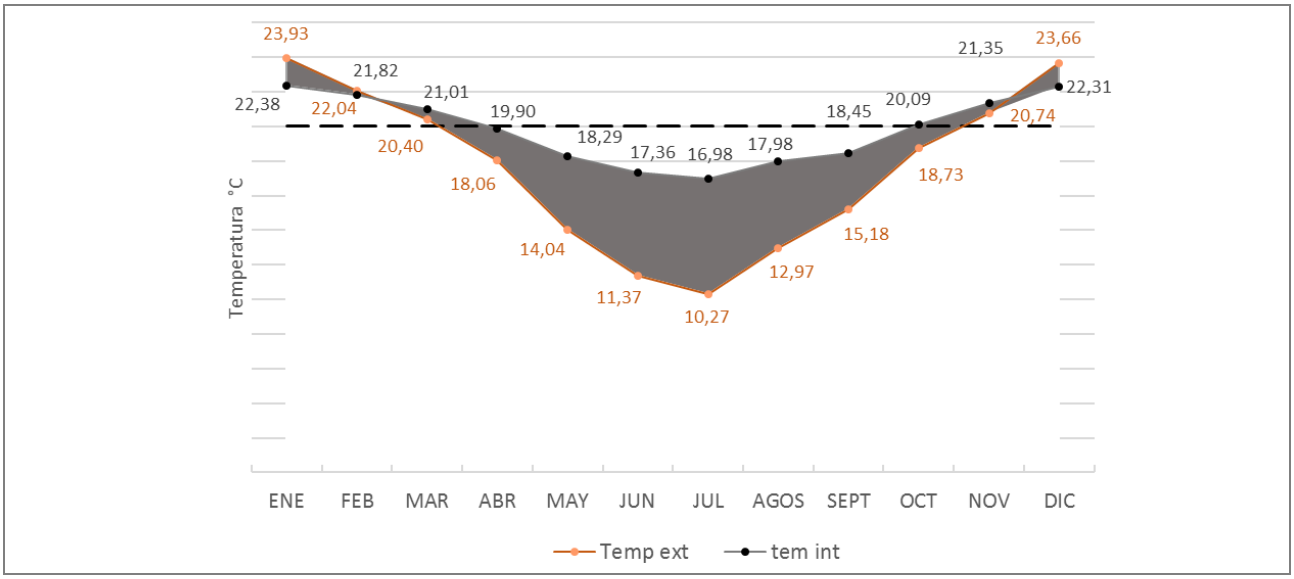
| EPS-009 | MU | ALMA EPS |
|---|---|---|

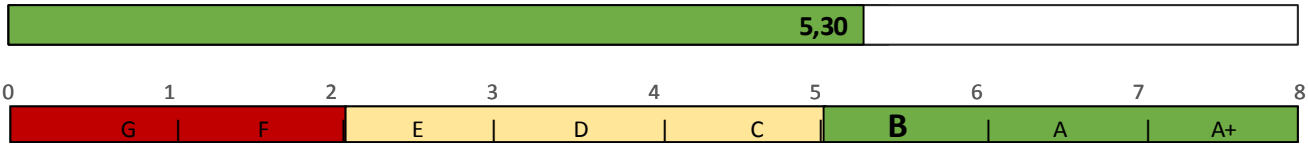
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,70** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,70** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



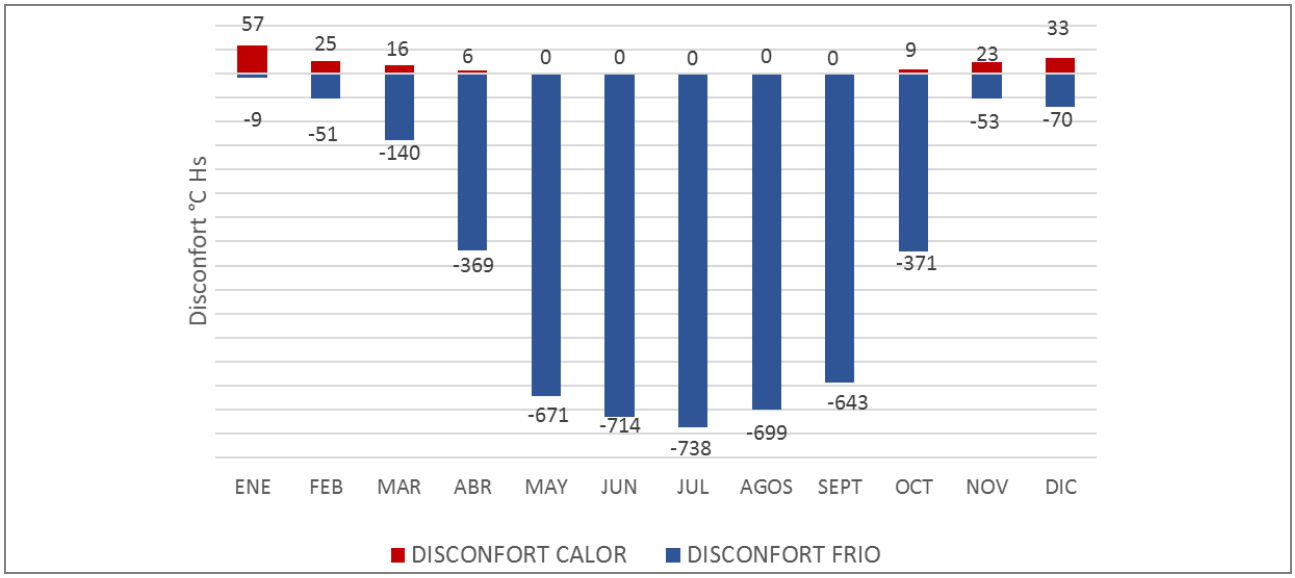




5,30 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| EPS-009 | MU | ALMA EPS |
|---|---|---|

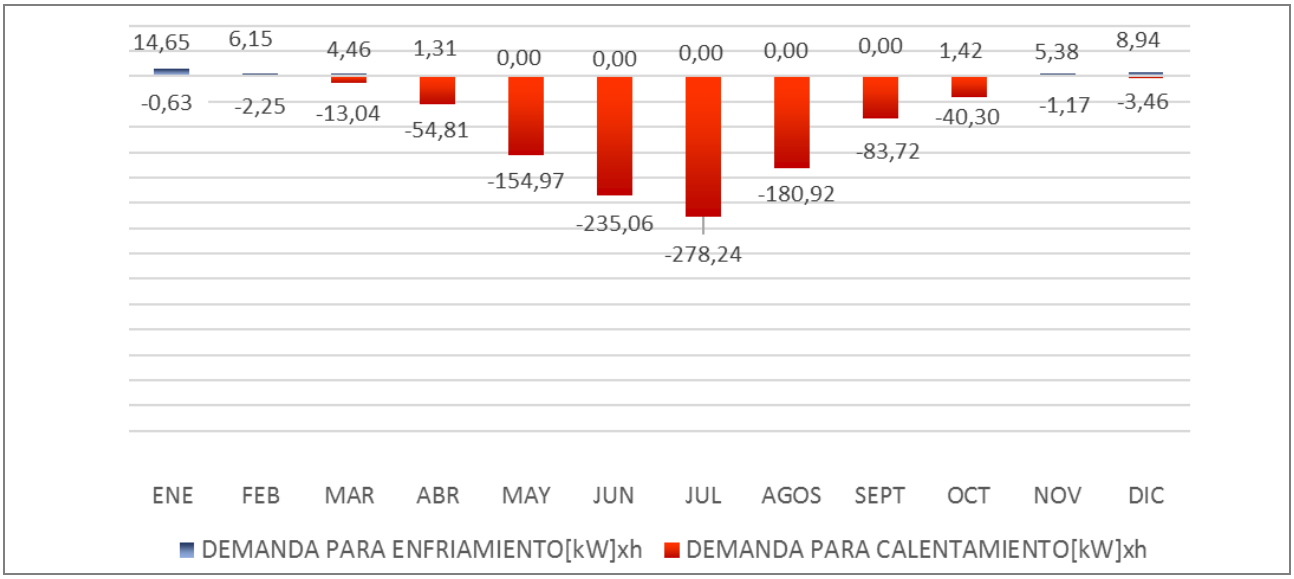
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **170** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.527** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.696** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

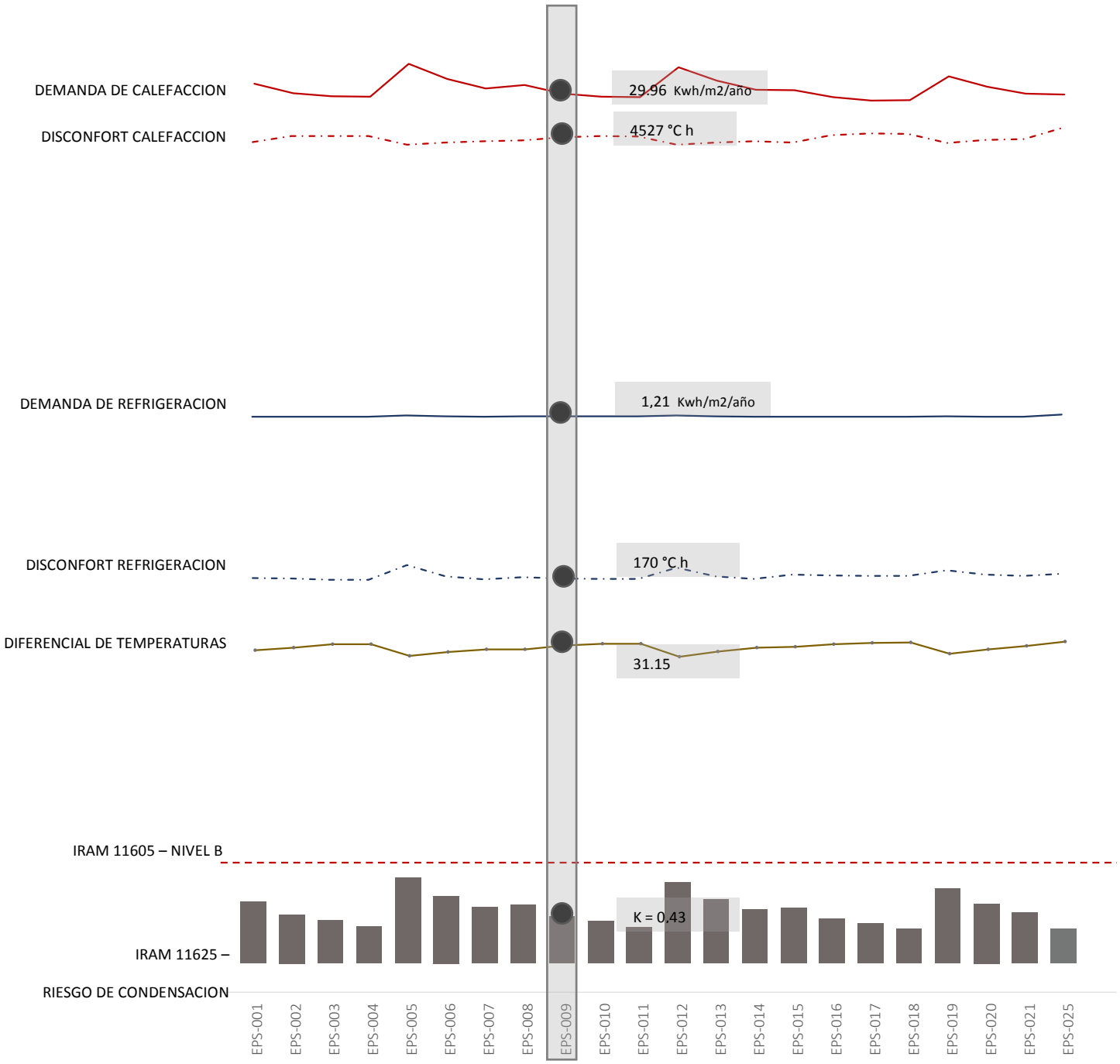



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,31** | kWh | 1,21 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.048,58** | kWh | 29,96 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.090,89** | kWh | **31,17** | kWh/m2/año |

| EPS-009 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 082 | N° 096 | N° 060 | N° 059 | N° 085 | N° 045 |



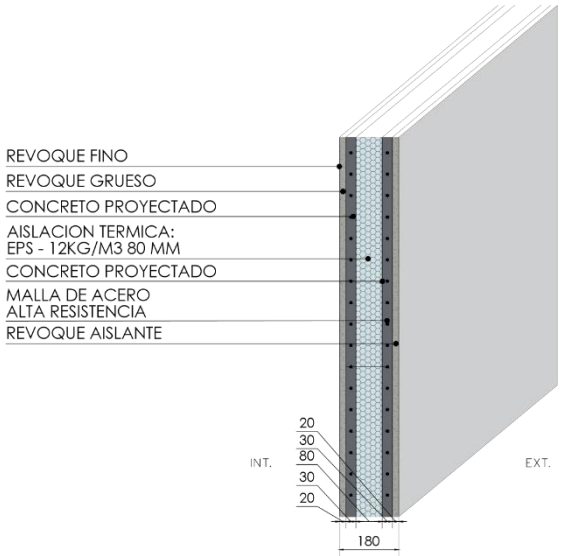

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,43 | 0% | 31,15 | 29,96 | 1,21 | 4527 | 170 |
| INC. FAMILIA | 87,11% | 0,00% | 100,63% | 96,81% | 99,96% | 100,24% | 89,30% |
| INC. MUNDIAL | 36,15% | 0,00% | 101,09% | 72,85% | 20,16% | 101,47% | 33,26% |

| EPS-010 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CASSAFORMA) PM80 + TERMINACIÓN INTERIOR REVOQUE GRUESO Y FINO + EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

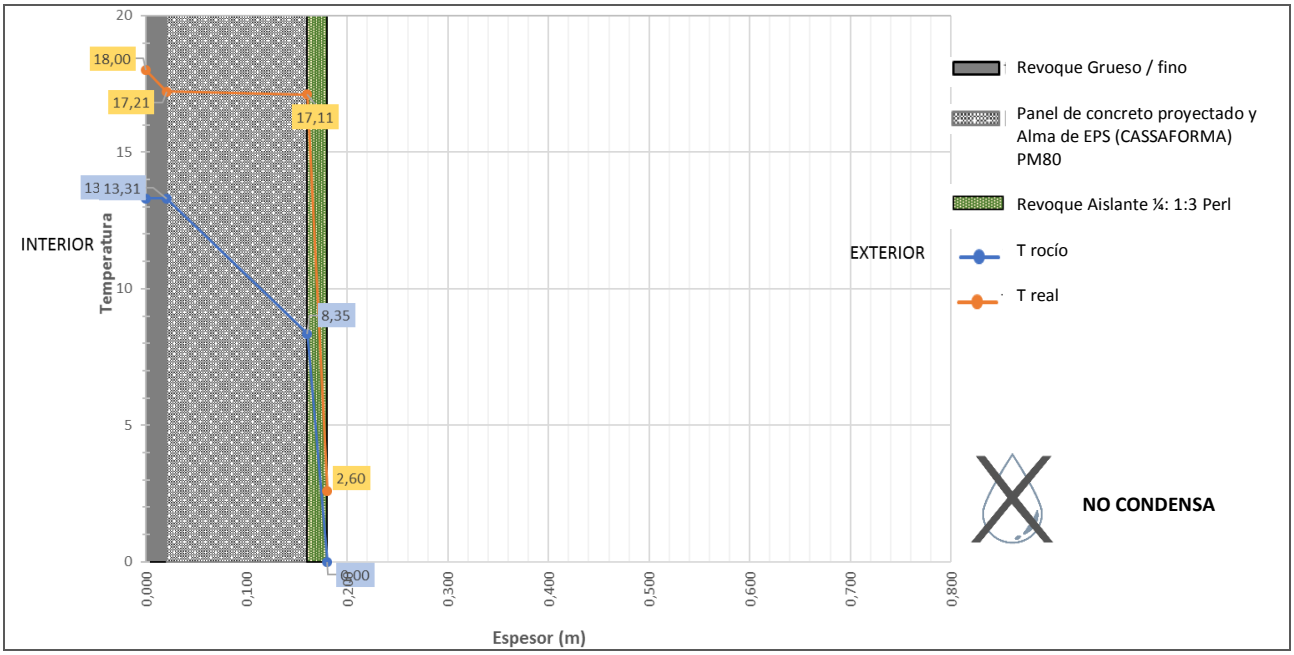
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,39 | 0,39 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



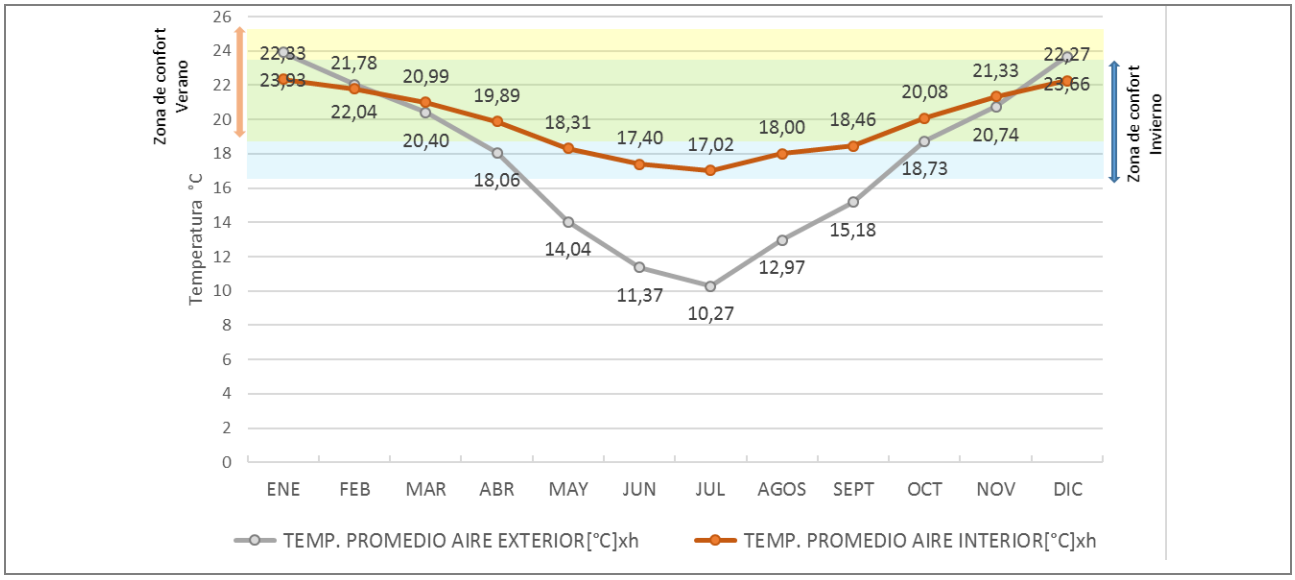

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,1 | 4,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,7** | **7,1** |
| | **Amortiguamiento:** | 0,173 | 0,073 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,9** | **6,8** |
| | **Amortiguamiento:** | 0,279 | 0,167 |

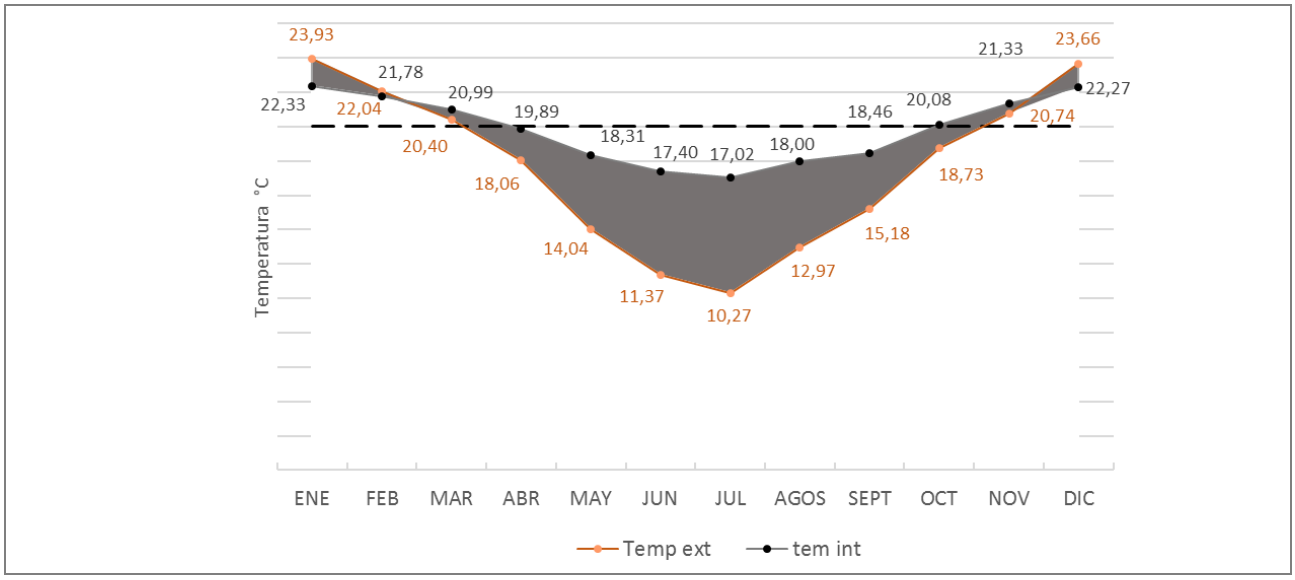
| EPS-010 | MU | ALMA EPS |
|---|---|---|

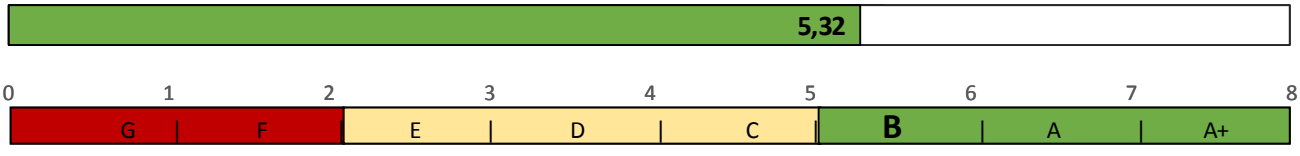
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,66** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,78** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



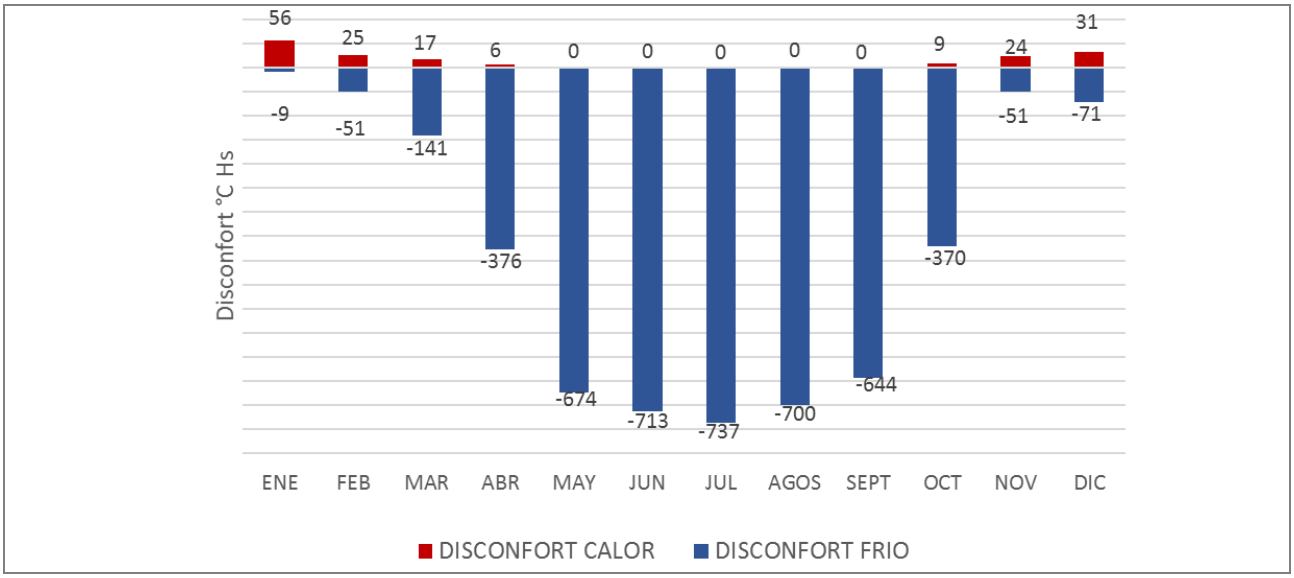




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| EPS-010 | MU | ALMA EPS |
|---|---|---|

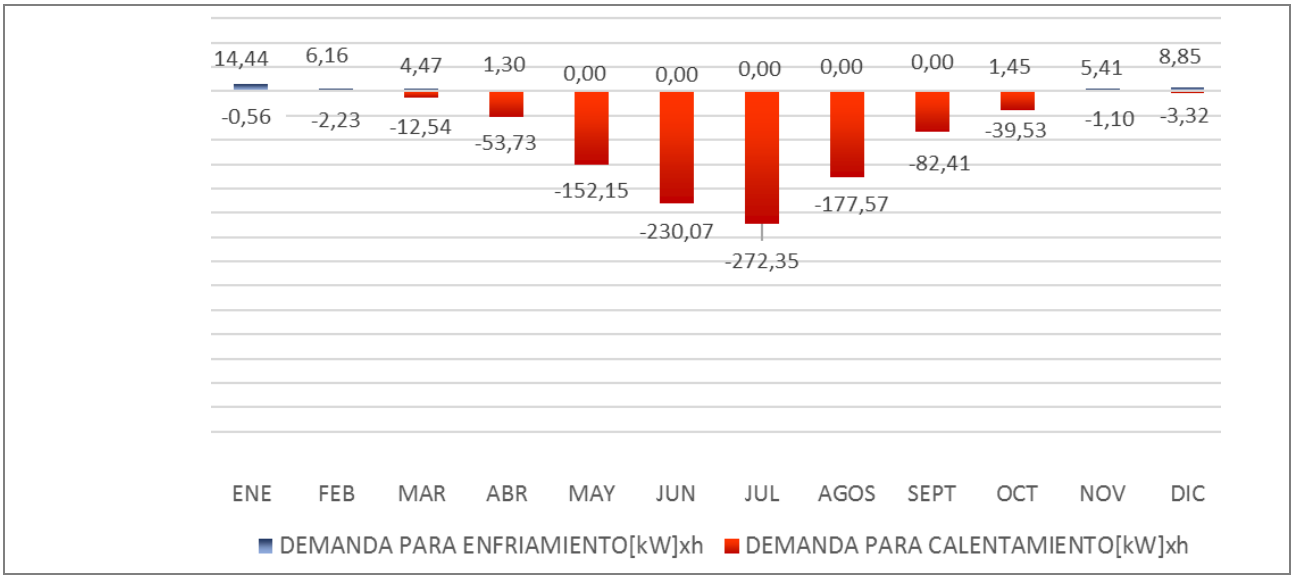
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **168** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.537** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.705** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

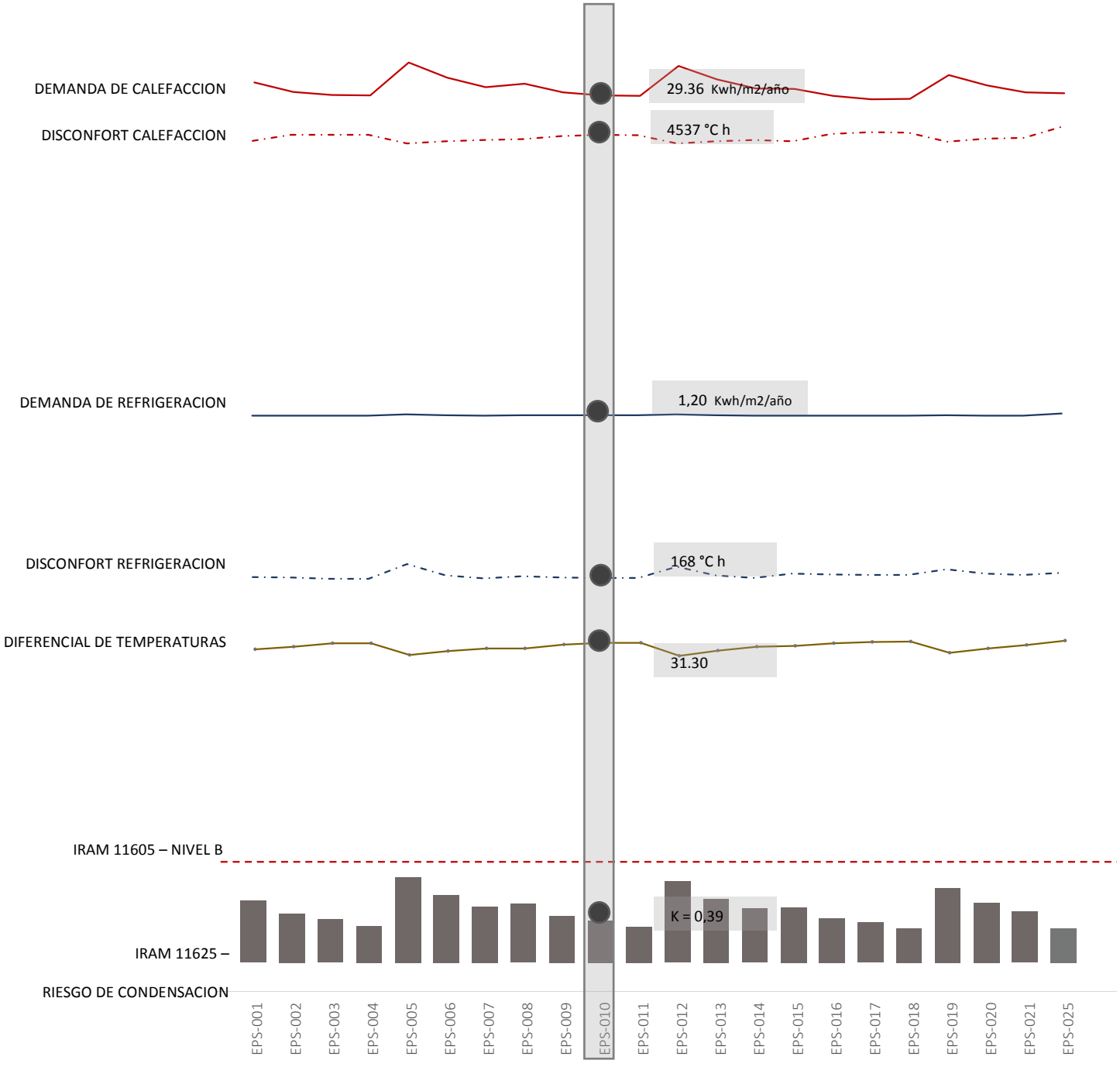



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,08** | kWh | 1,20 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.027,56** | kWh | 29,36 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.069,65** | kWh | **30,56** | kWh/m2/año |

| EPS-010 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 070 | N° 073 | N° 040 | N° 057 | N° 095 | N° 041 |



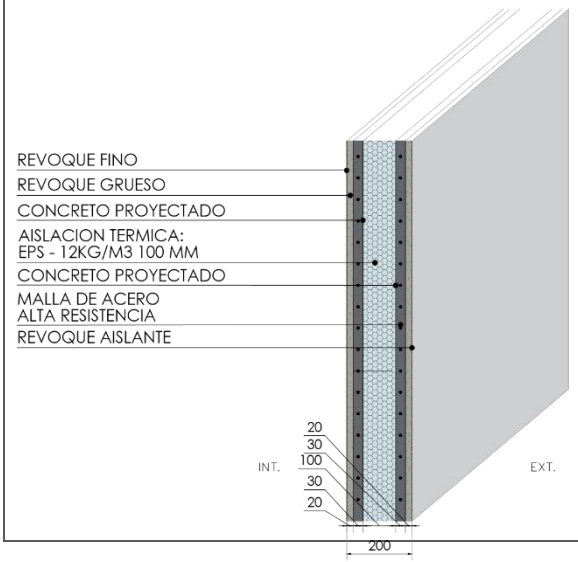

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,39 | 0% | 31,30 | 29,36 | 1,2 | 4537 | 168 |
| INC. FAMILIA | 79,01% | 0,00% | 101,12% | 94,88% | 99,14% | 100,46% | 88,25% |
| INC. MUNDIAL | 32,79% | 0,00% | 101,58% | 71,39% | 19,99% | 101,69% | 32,87% |

| EPS-011 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 16 CM (CASSAFORMA) PM100 + TERMINACION INTERIOR REVOQUE GRUESO Y FINO+ EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

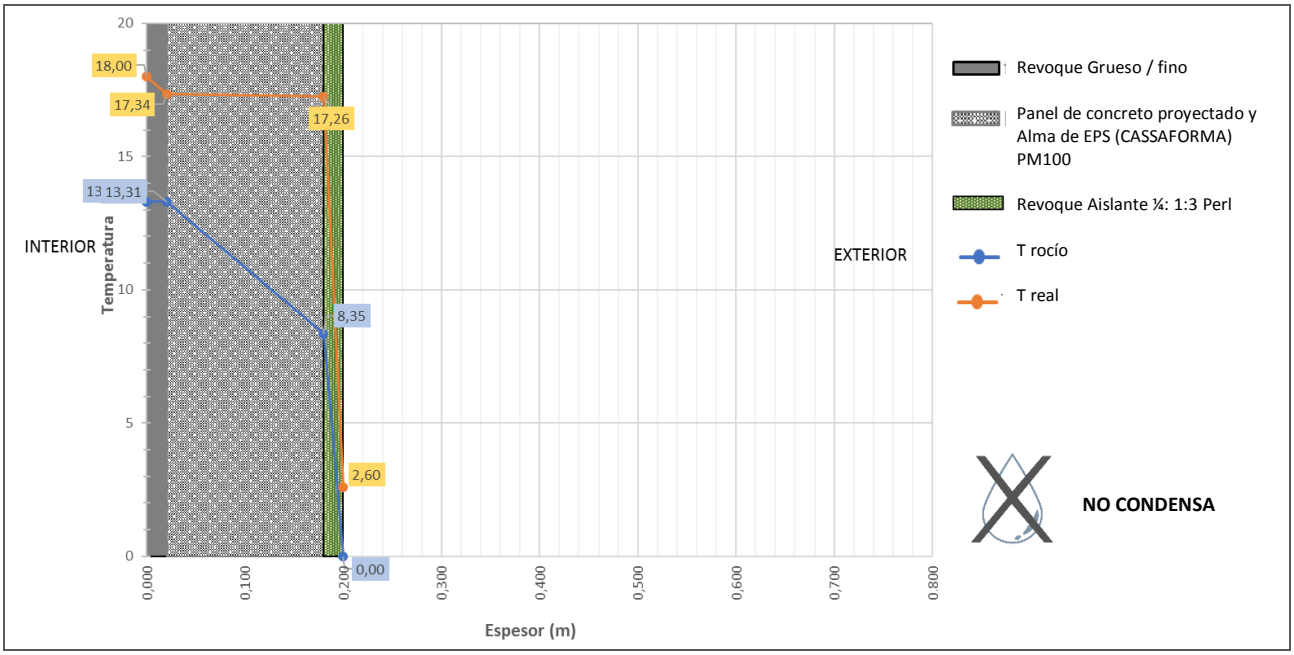
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,33 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



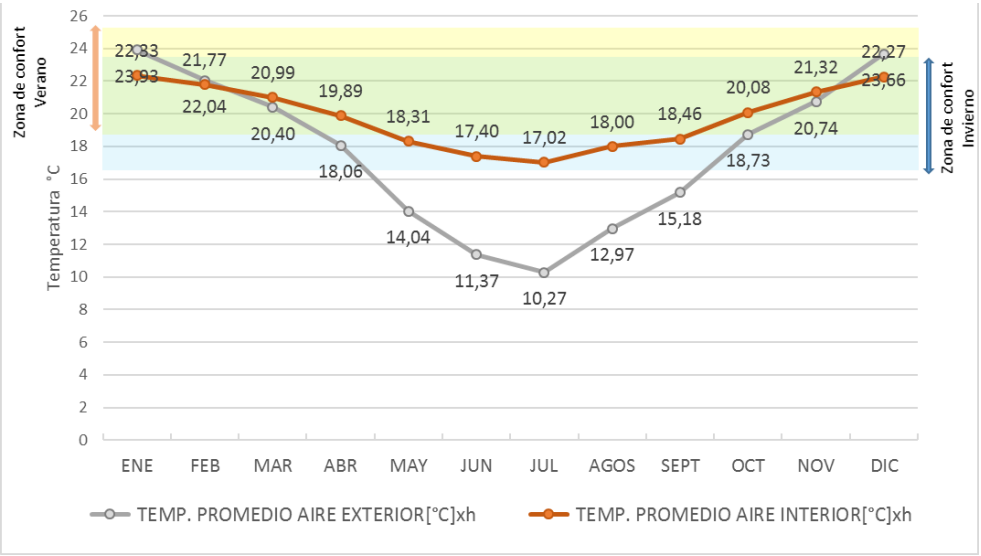

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,7 | 3,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,2** | **7,8** |
| | **Amortiguamiento:** | 0,145 | 0,056 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,3** | **7,5** |
| | **Amortiguamiento:** | 0,250 | 0,140 |

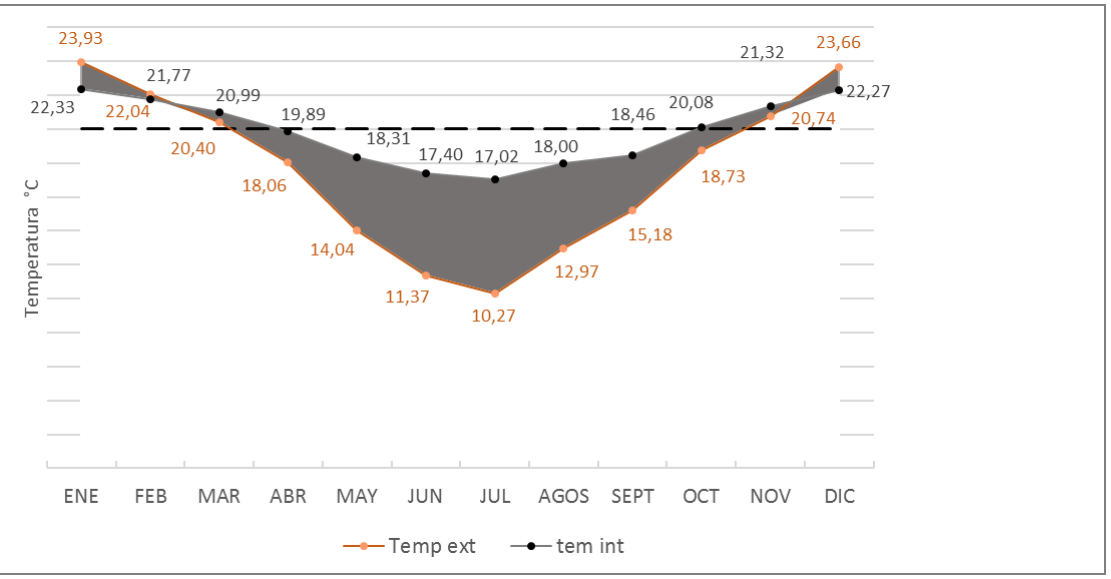
| EPS-011 | MU | ALMA EPS |
|---|---|---|

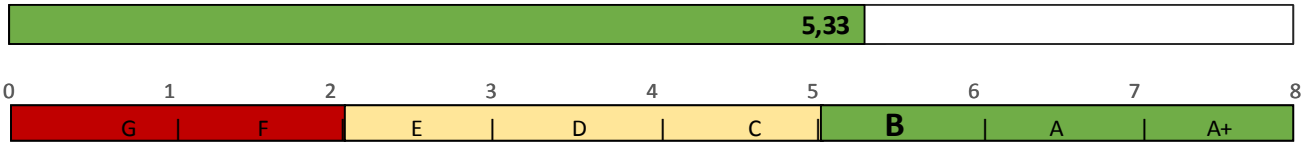
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,66** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,78** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



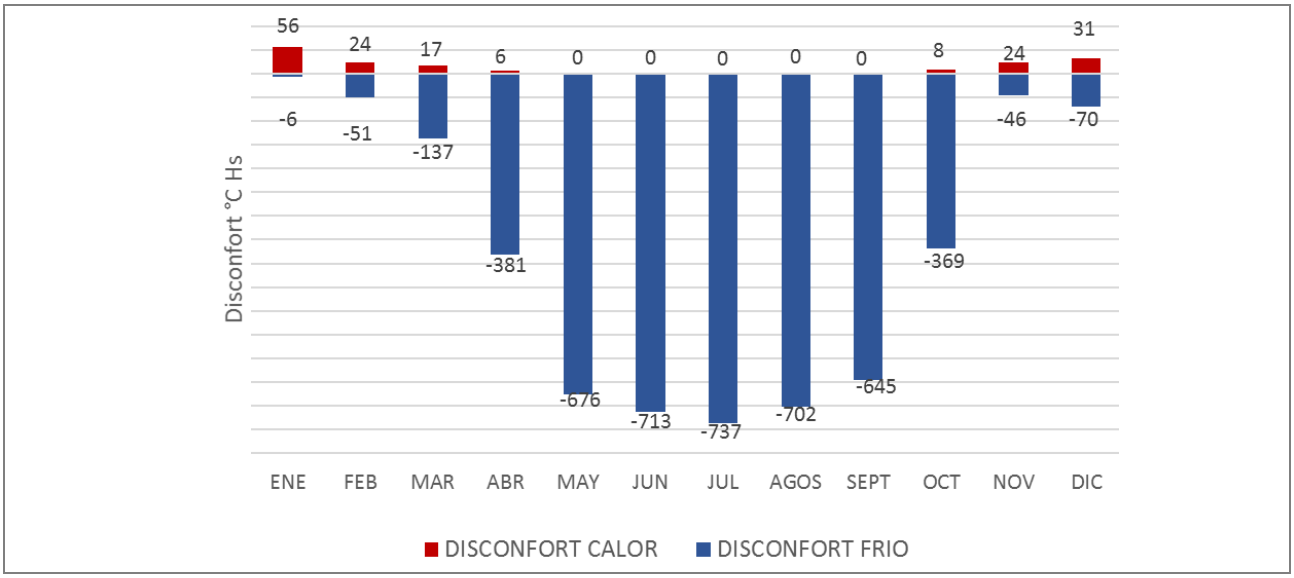




5,33 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| EPS-011 | MU | ALMA EPS |
|---|---|---|

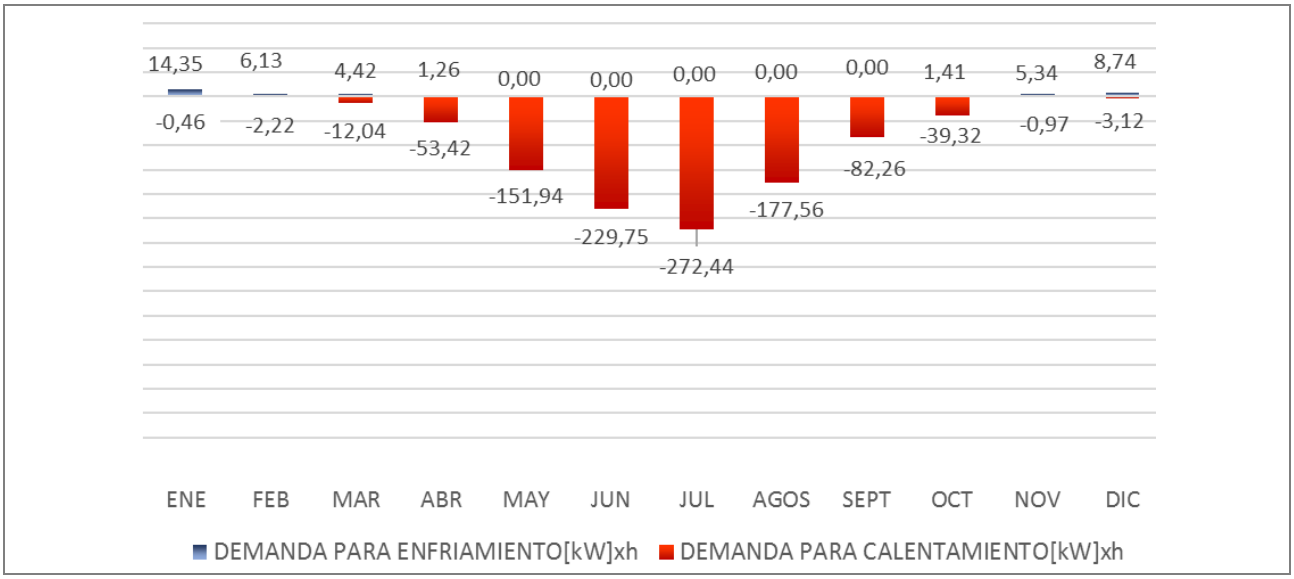
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **166** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.533** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.699** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

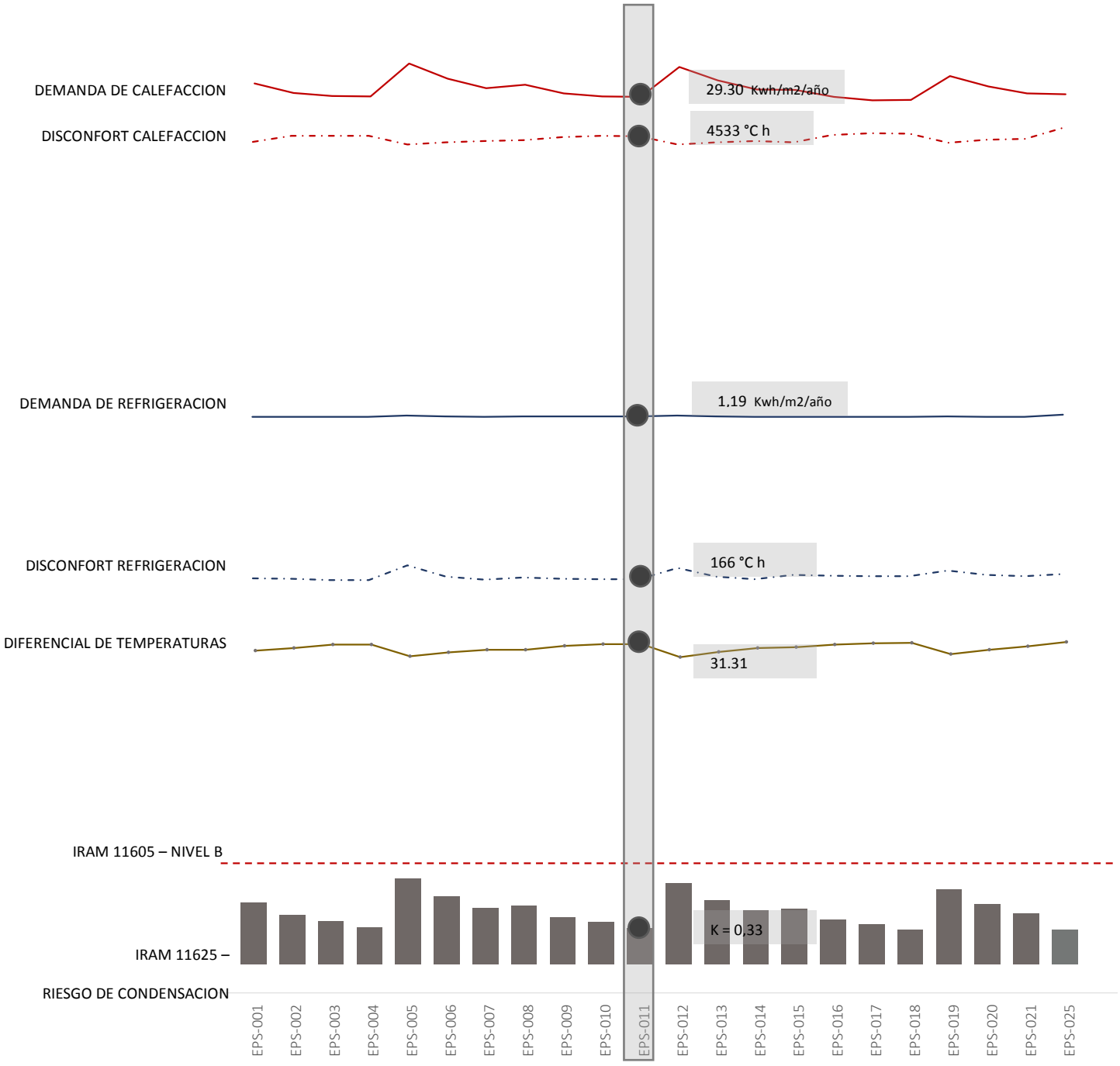



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **41,67** | kWh | 1,19 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.025,51** | kWh | 29,30 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.067,18** | kWh | **30,49** | kWh/m2/año |

| EPS-011 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 028 | N° 069 | N° 038 | N° 055 | N° 088 | N° 038 |



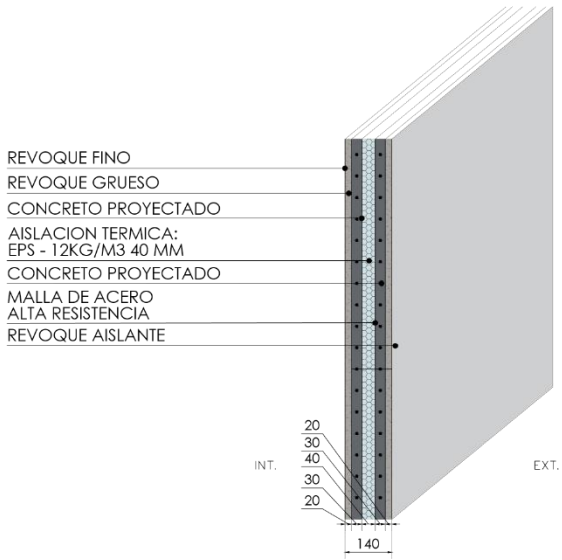

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,33 | 0% | 31,31 | 29,3 | 1,19 | 4533 | 166 |
| INC. FAMILIA | 66,85% | 0,00% | 101,15% | 94,68% | 98,31% | 100,37% | 87,20% |
| INC. MUNDIAL | 27,75% | 0,00% | 101,61% | 71,24% | 19,83% | 101,60% | 32,48% |

| EPS-012 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 10 CM (EMEDUE) PM40 + TERMINACION INTERIOR REVOQUE GRUESO Y FINO + EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

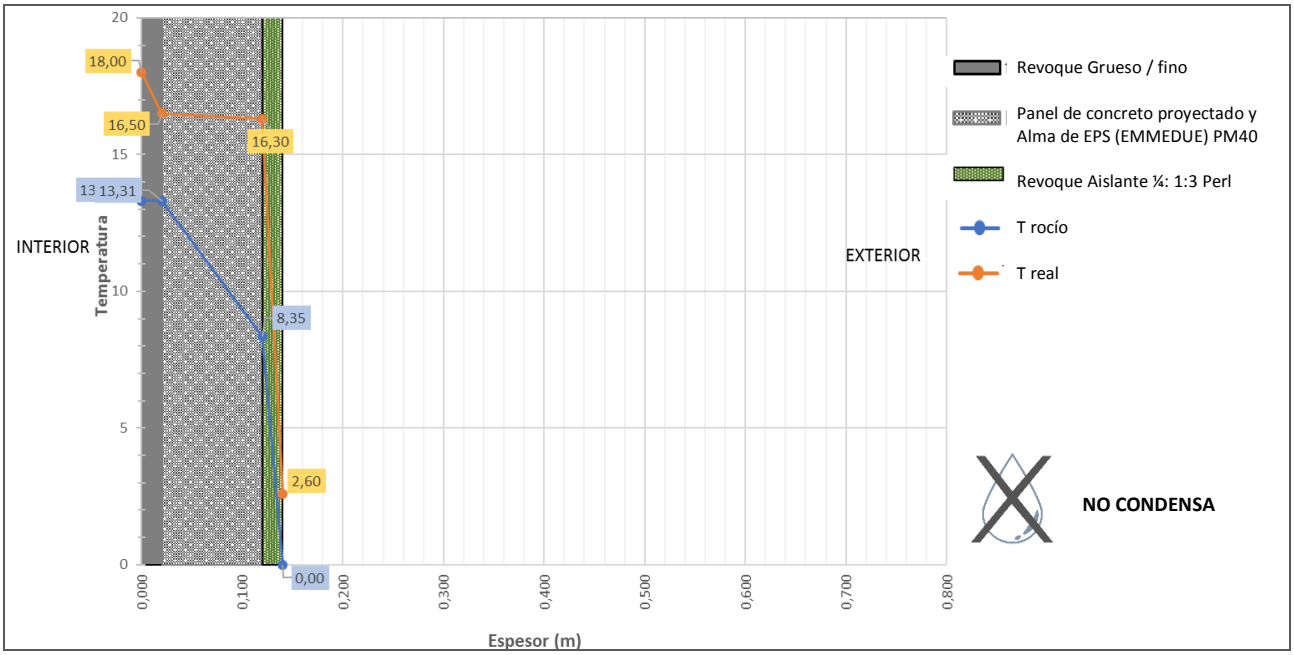
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,75 | 0,75 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



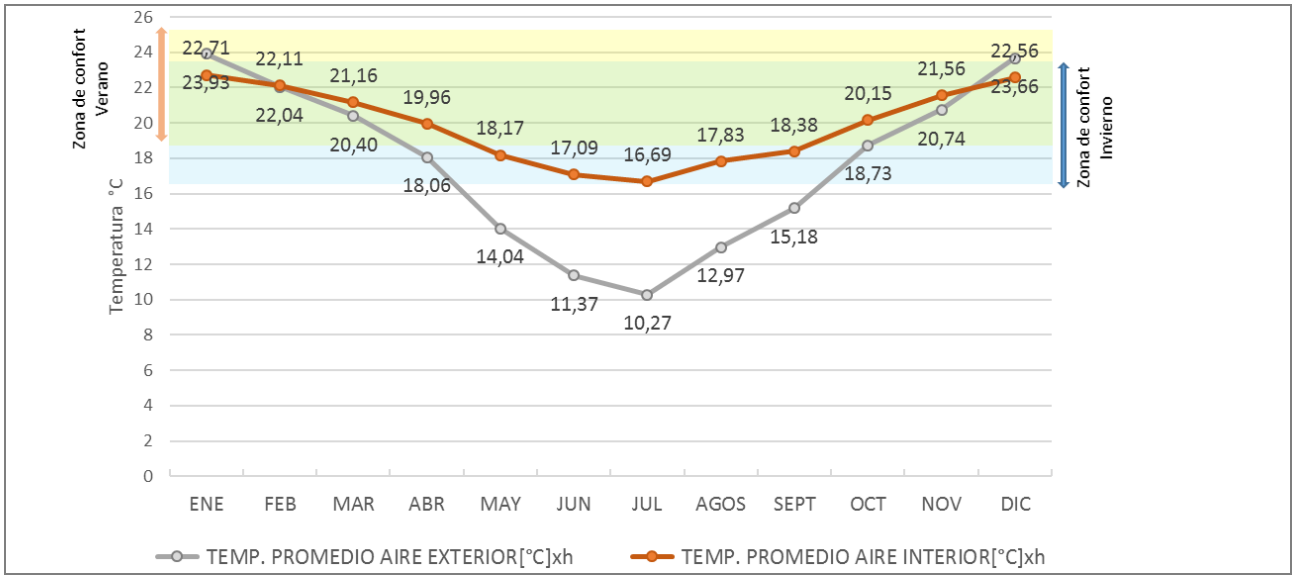

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,3 | 9,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,3** | **4,9** |
| | **Amortiguamiento:** | 0,293 | 0,160 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,7** | **4,9** |
| | **Amortiguamiento:** | 0,384 | 0,281 |

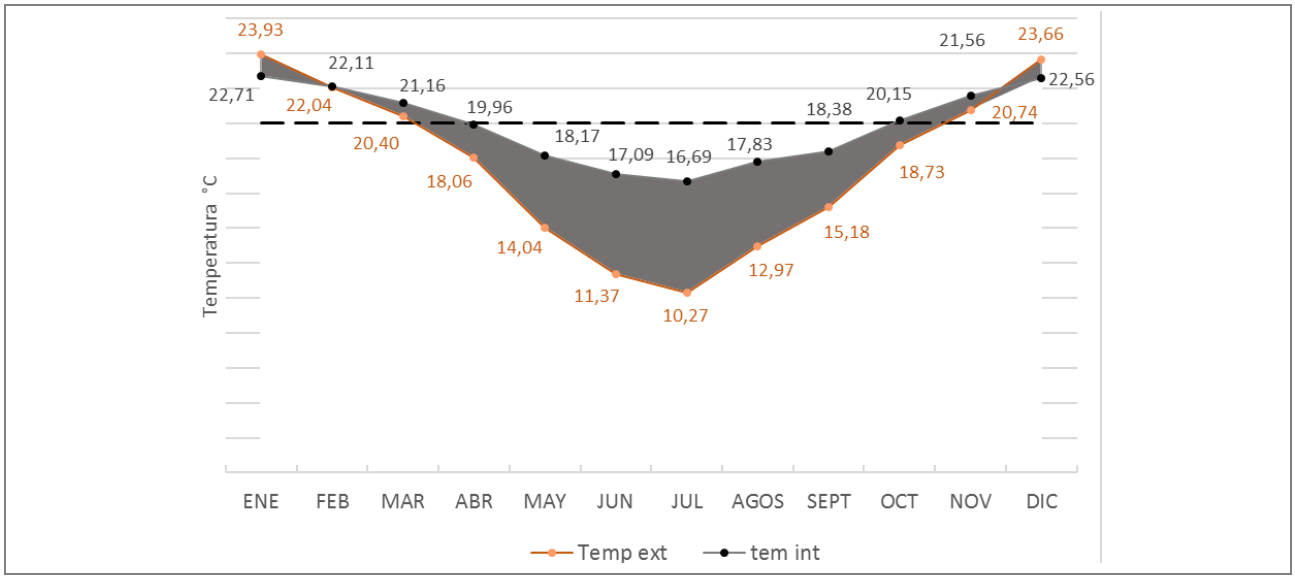
| EPS-012 | MU | ALMA EPS |
|---|---|---|

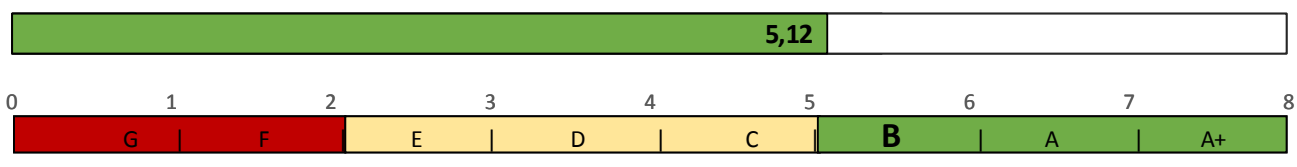
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,16** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,99** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



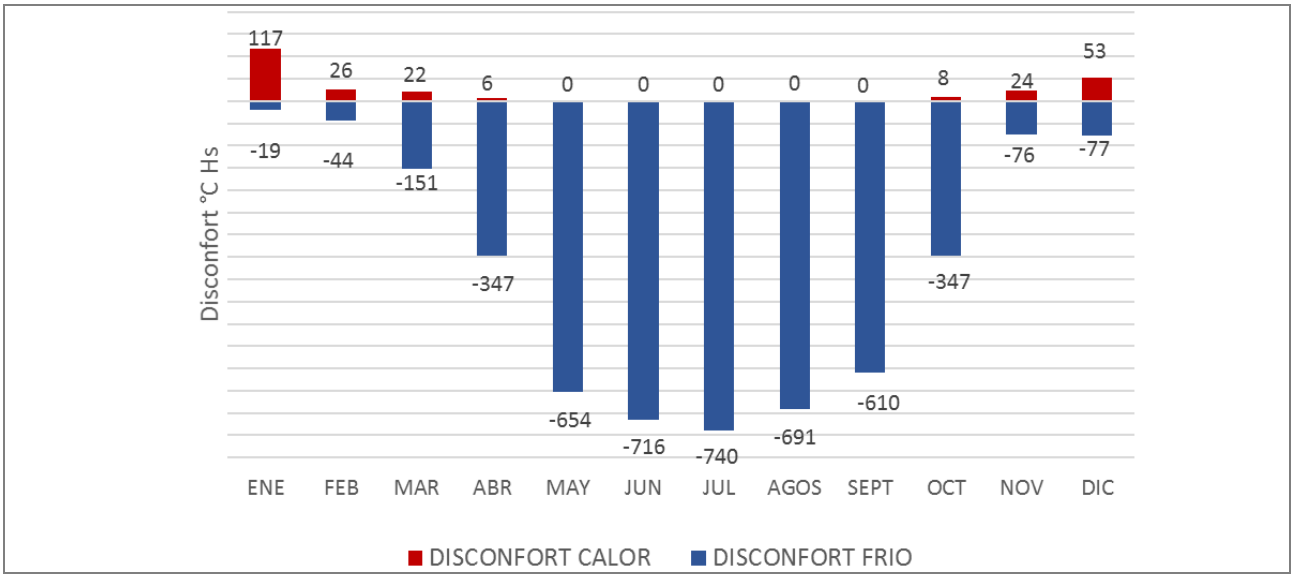




5,12 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| EPS-012 | MU | ALMA EPS |
|---|---|---|

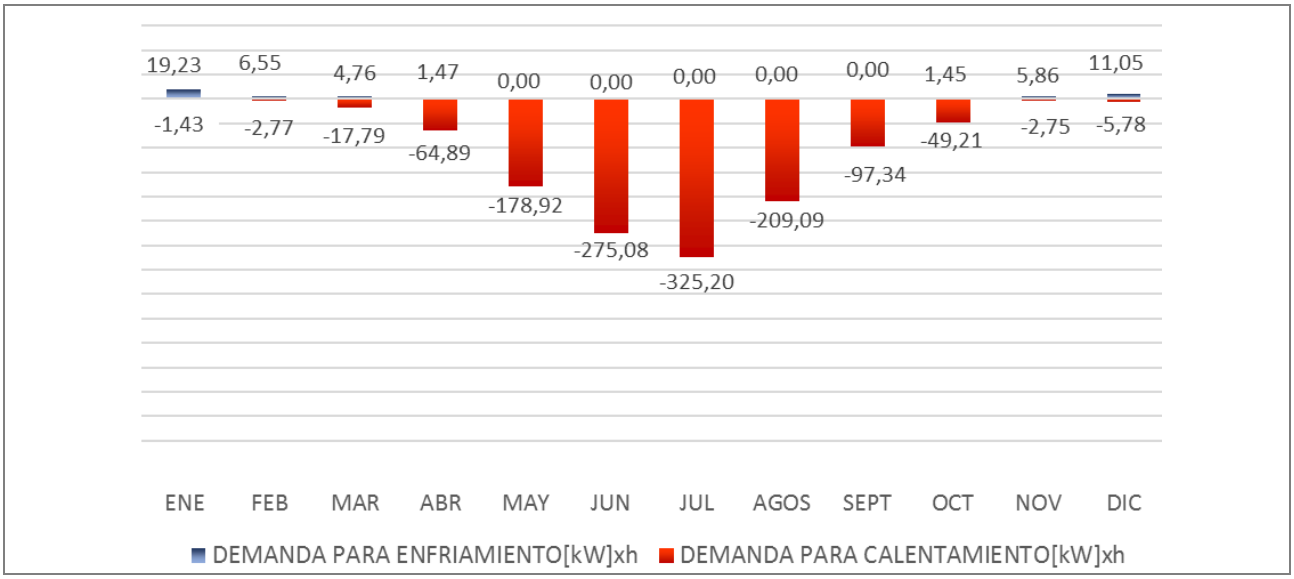
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **256** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.472** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.472** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

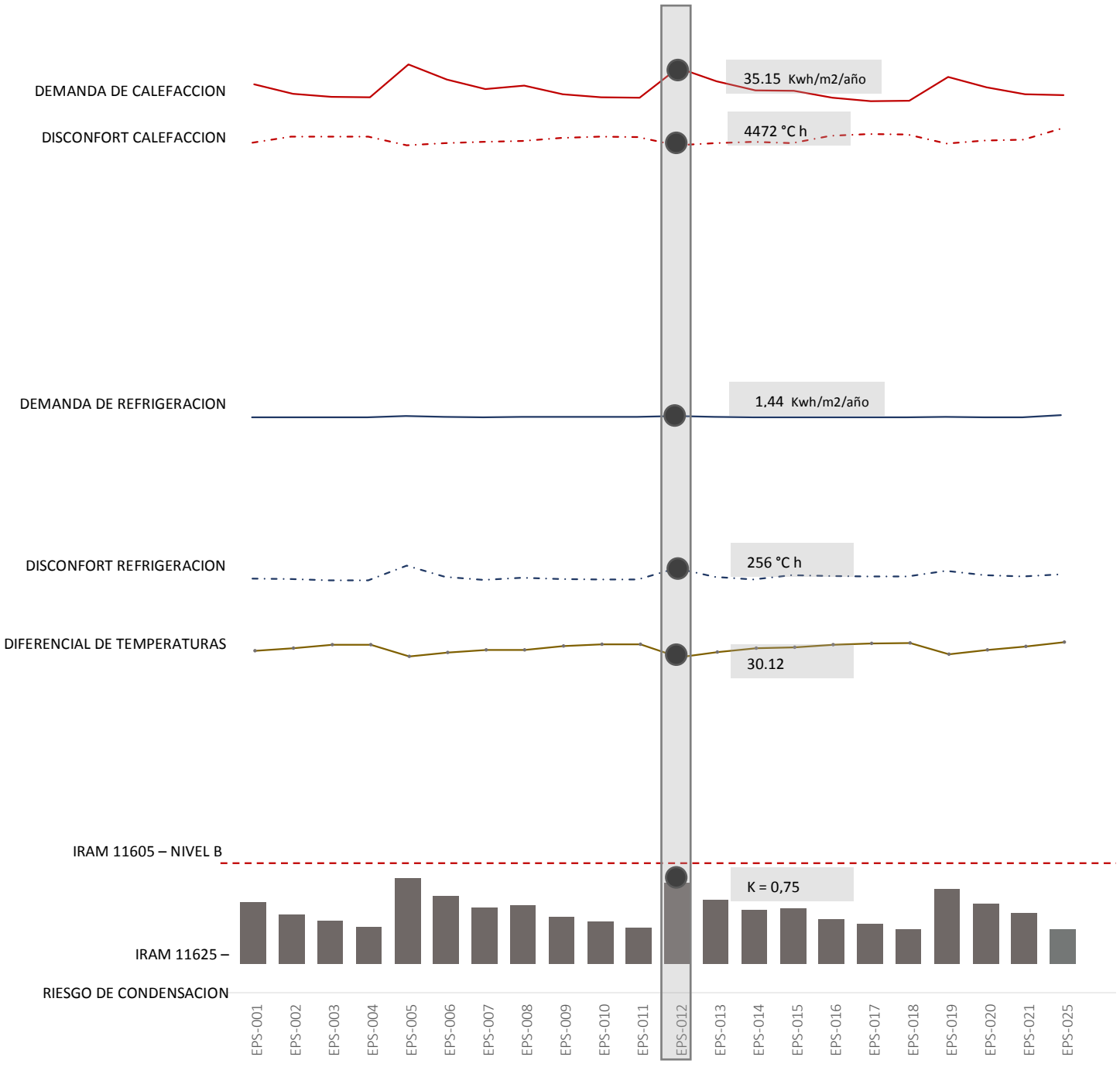



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **50,38** | kWh | 1,44 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.230,26** | kWh | 35,15 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.280,65** | kWh | **36,59** | kWh/m2/año |

| EPS-012 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 159 | N° 165 | N° 152 | N° 095 | N° 030 | N° 132 |



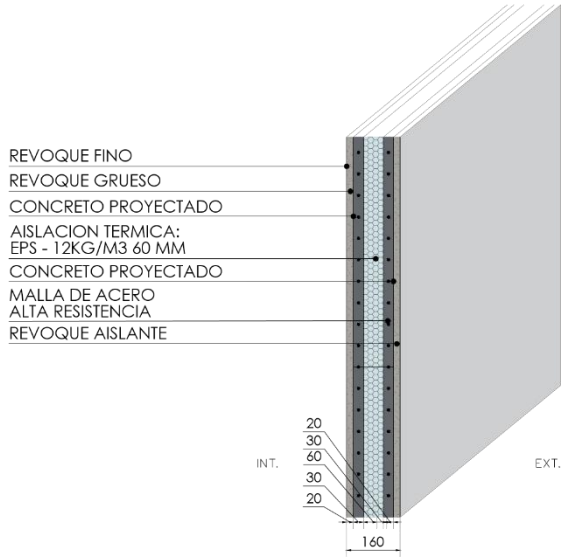

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,75 | 0% | 30,12 | 35,15 | 1,44 | 4472 | 256 |
| INC. FAMILIA | 151,93% | 0,00% | 97,31% | 113,59% | 118,96% | 99,02% | 134,48% |
| INC. MUNDIAL | 63,06% | 0,00% | 97,75% | 85,47% | 23,99% | 100,23% | 50,08% |

| EPS-013 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (EMEDUE) PM60 + TERMINACIÓN INTERIOR REVOQUE GRUESO Y FINO+ EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

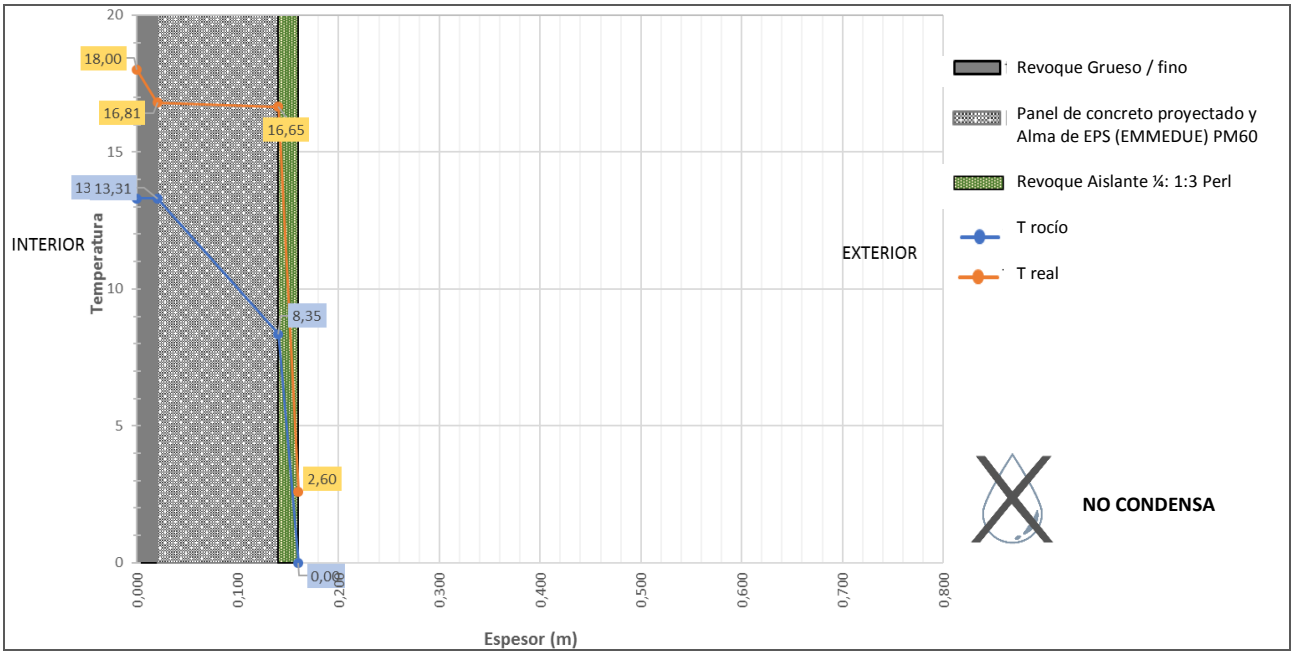
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,59 | 0,59 |
|---|---|
| **verifica** verano | **verifica** invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



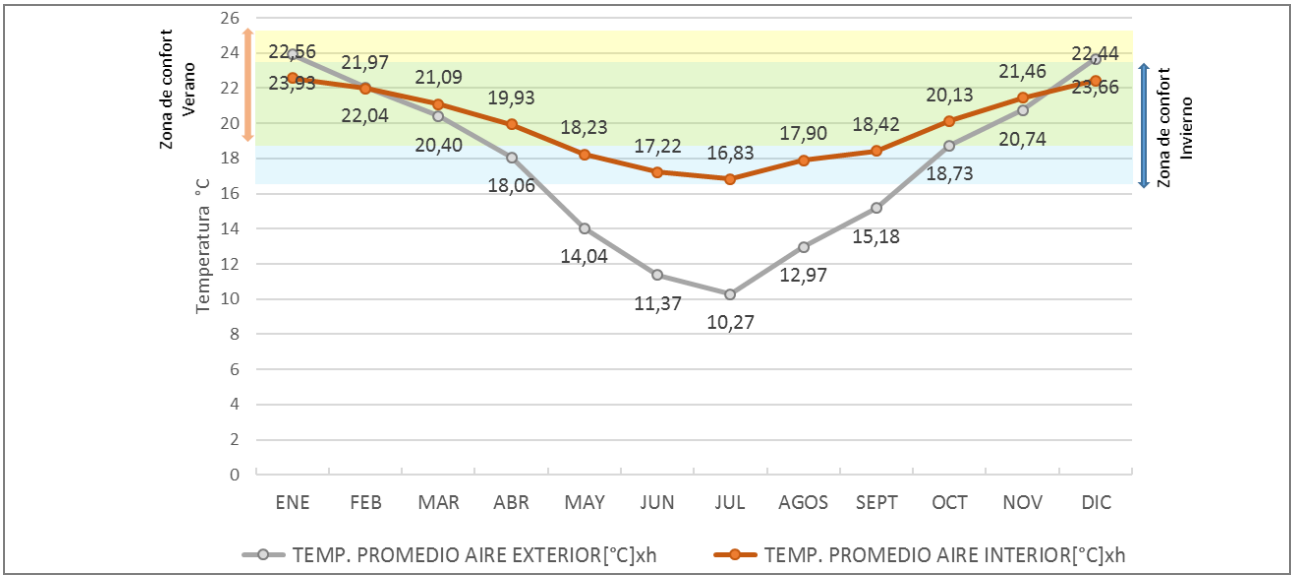

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,3 | 7,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,8** | **5,6** |
| | **Amortiguamiento:** | 0,247 | 0,124 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,0** | **5,5** |
| | **Amortiguamiento:** | 0,347 | 0,237 |

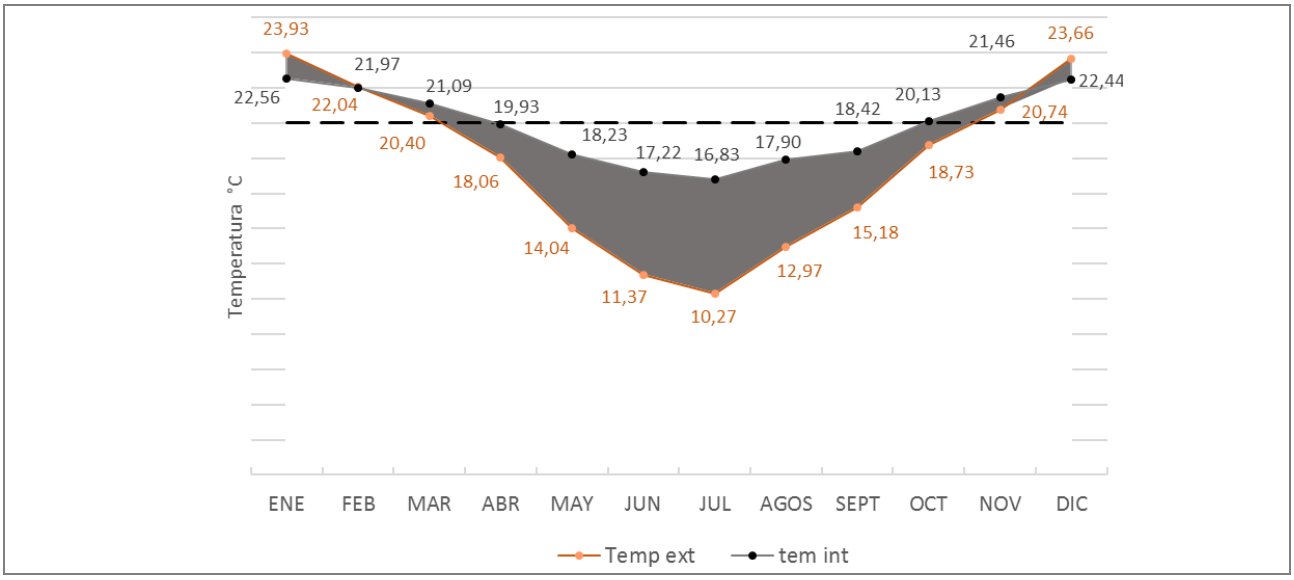
| EPS-013 | MU | ALMA EPS |
|---|---|---|

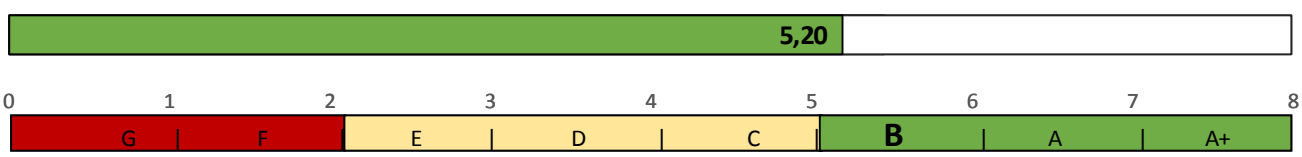
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,88** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,37** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



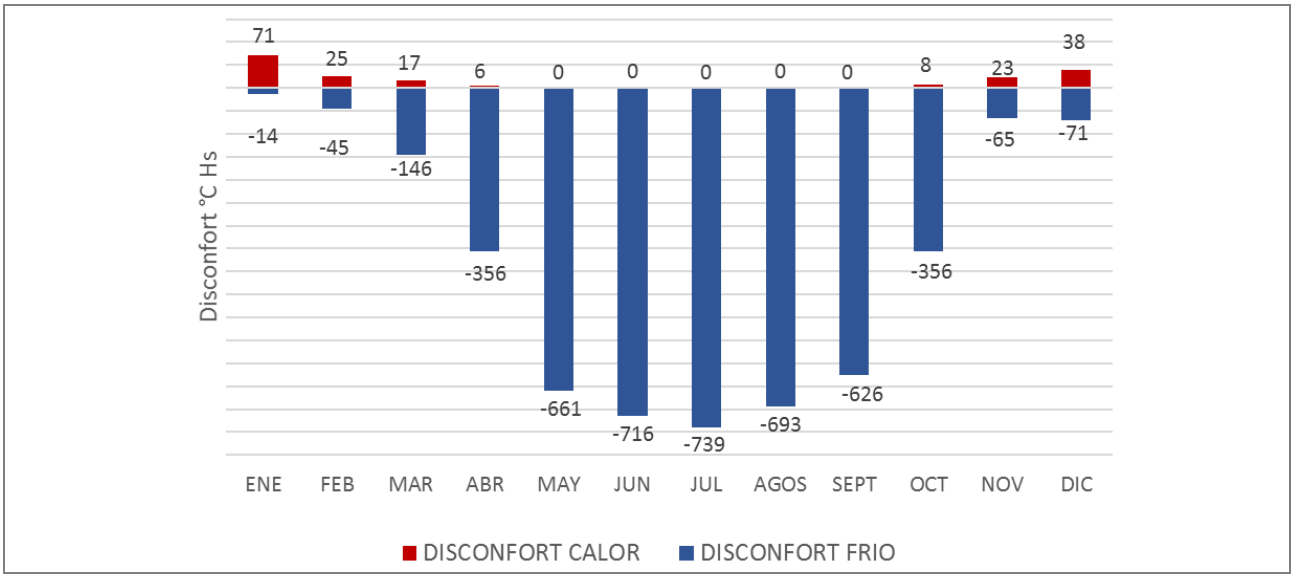




5,20 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| EPS-013 | MU | ALMA EPS |
|---|---|---|

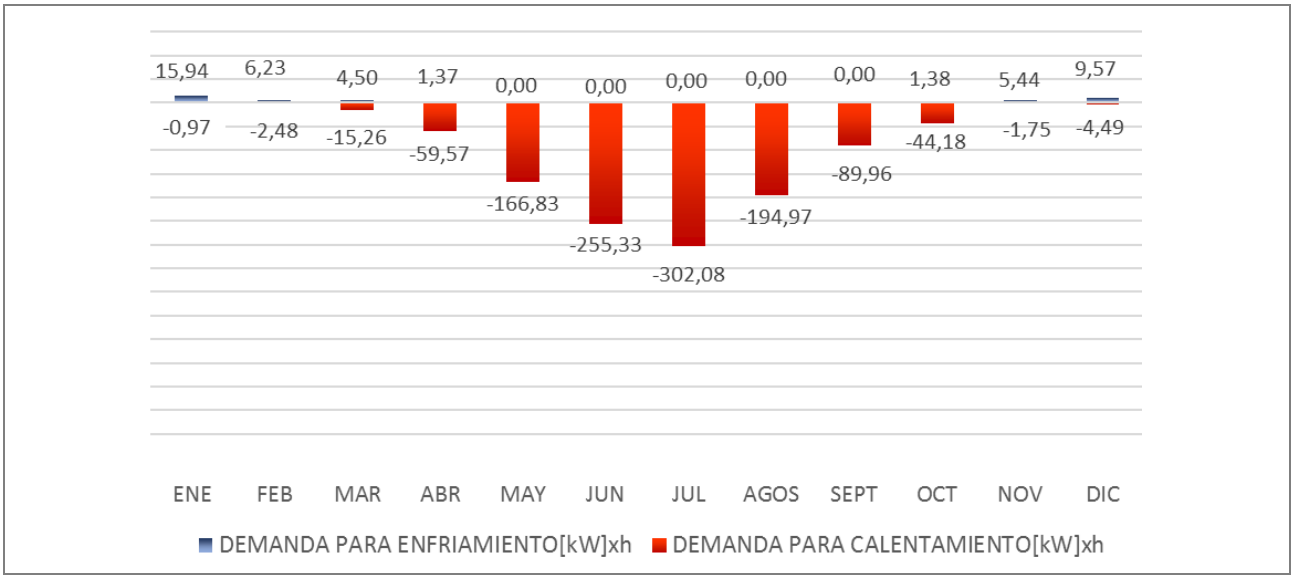
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **188** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.489** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.677** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

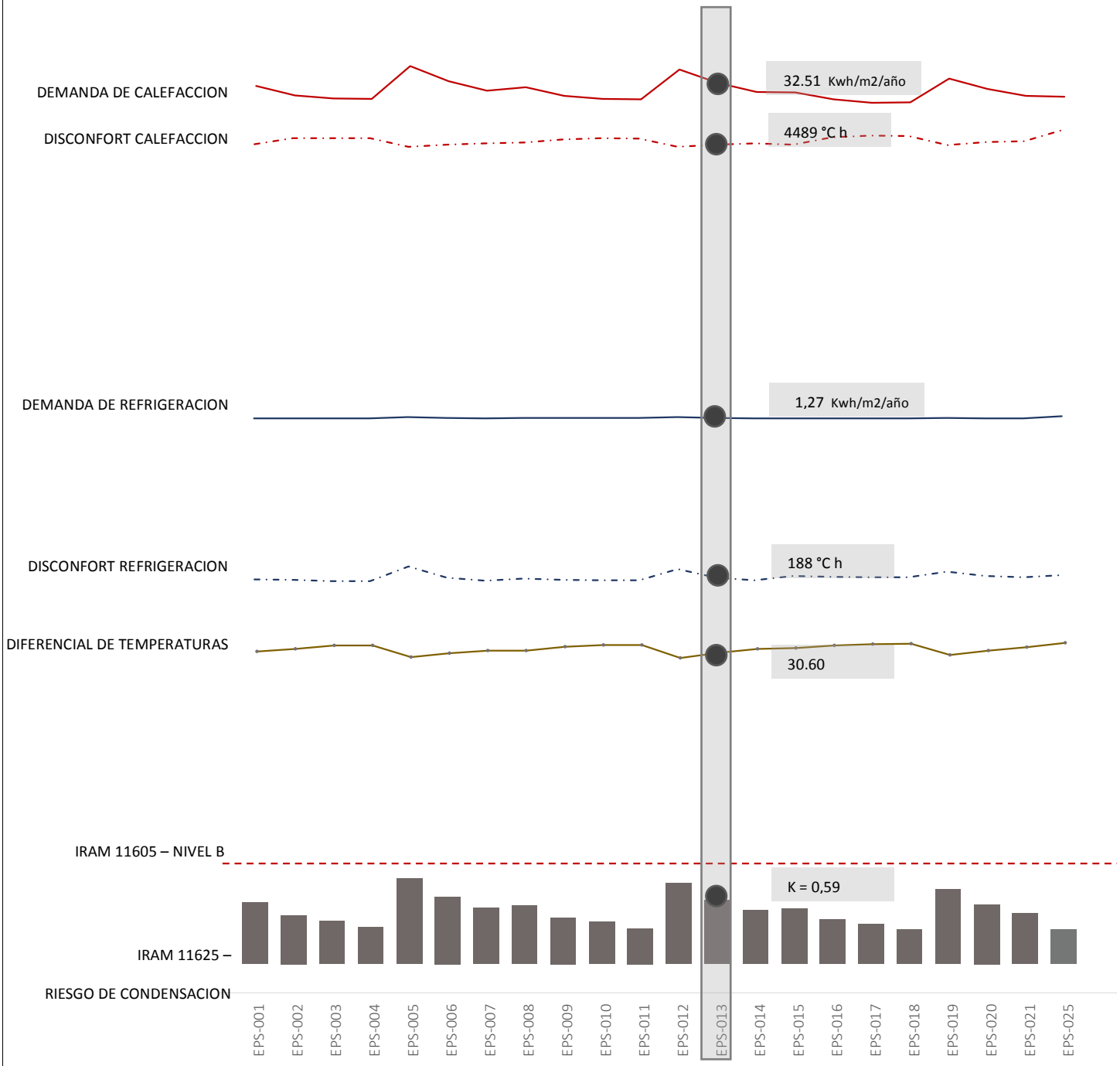



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **44,43** | kWh | 1,27 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.137,85** | kWh | 32,51 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.182,28** | kWh | **33,78** | kWh/m2/año |

| EPS-013 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 140 | N° 145 | N° 121 | N° 077 | N° 044 | N° 068 |



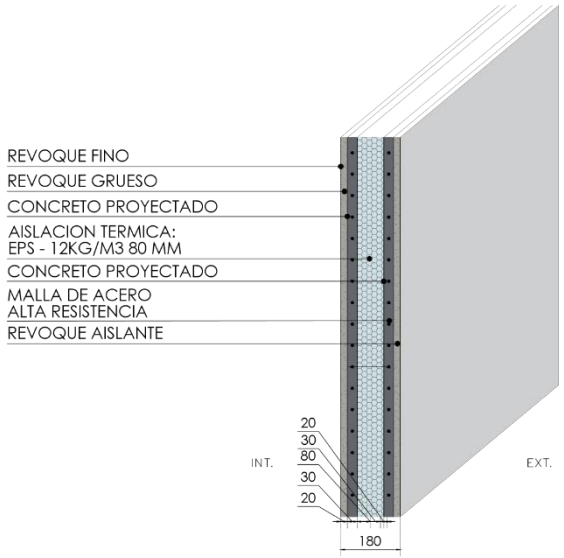

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,59 | 0% | 30,60 | 32,51 | 1,27 | 4489 | 188 |
| INC. FAMILIA | 119,52% | 0,00% | 98,86% | 105,05% | 104,92% | 99,39% | 98,76% |
| INC. MUNDIAL | 49,61% | 0,00% | 99,31% | 79,05% | 21,16% | 100,61% | 36,78% |

| EPS-014 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (EMEDUE) PM80 + TERMINACION INTERIOR REVOQUE GRUESO Y FINO+ EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

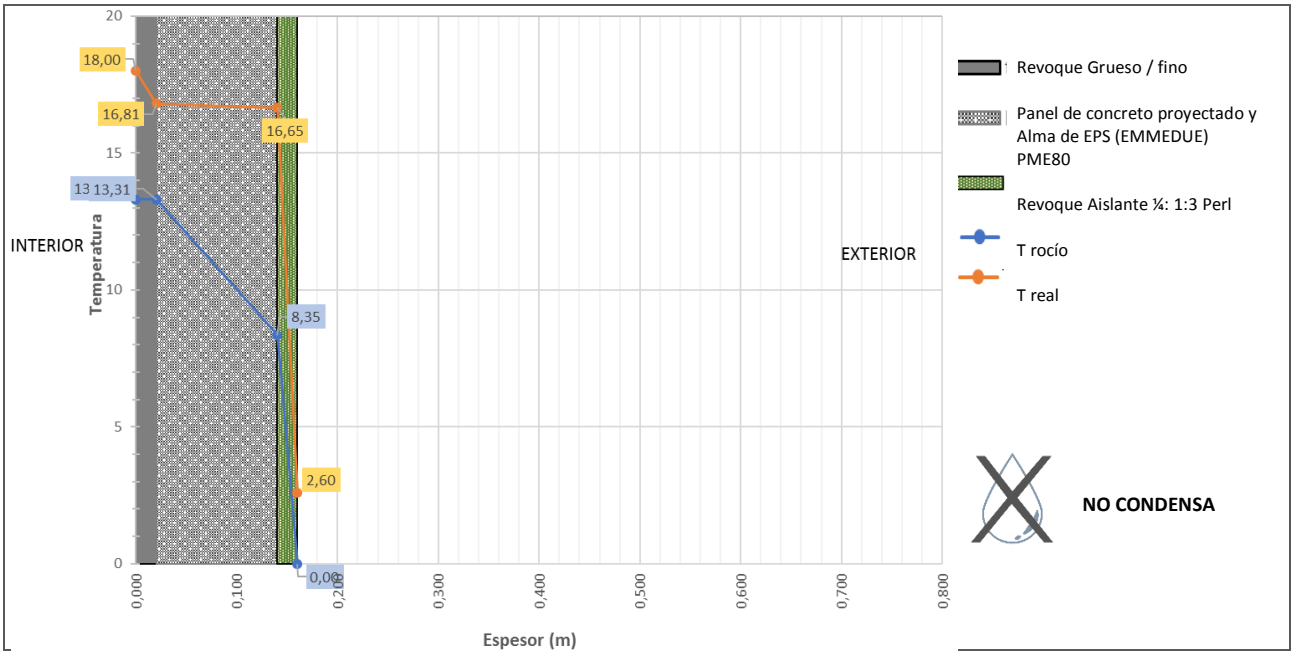
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,50 | 0,50 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



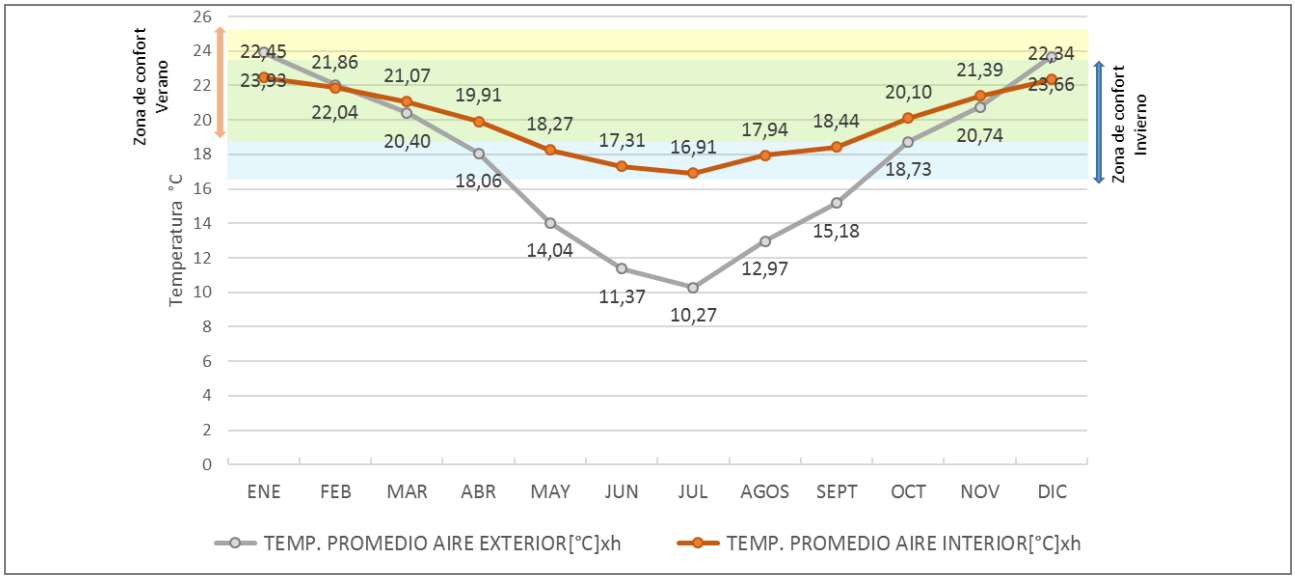

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,7 | 6,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,2** | **6,2** |
| | **Amortiguamiento:** | 0,215 | 0,101 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,4** | **6,0** |
| | **Amortiguamiento:** | 0,319 | 0,207 |

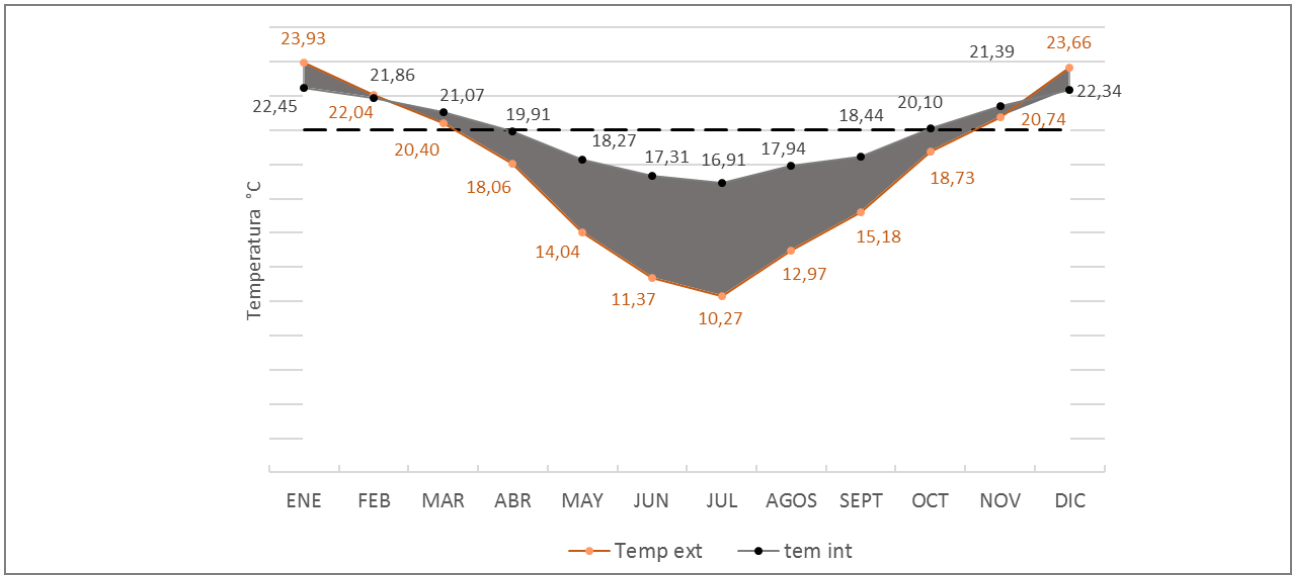
| EPS-014 | MU | ALMA EPS |
|---|---|---|

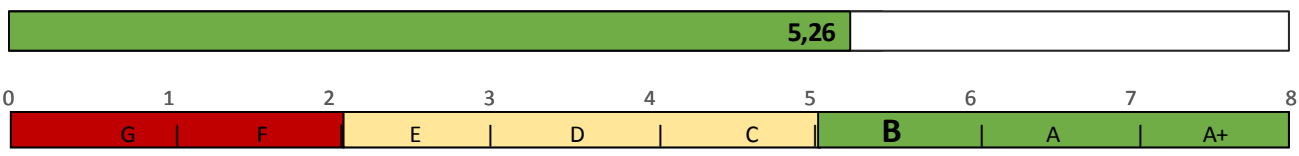
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,80** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,61** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS




5,26 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| EPS-014 | MU | ALMA EPS |
|---|---|---|

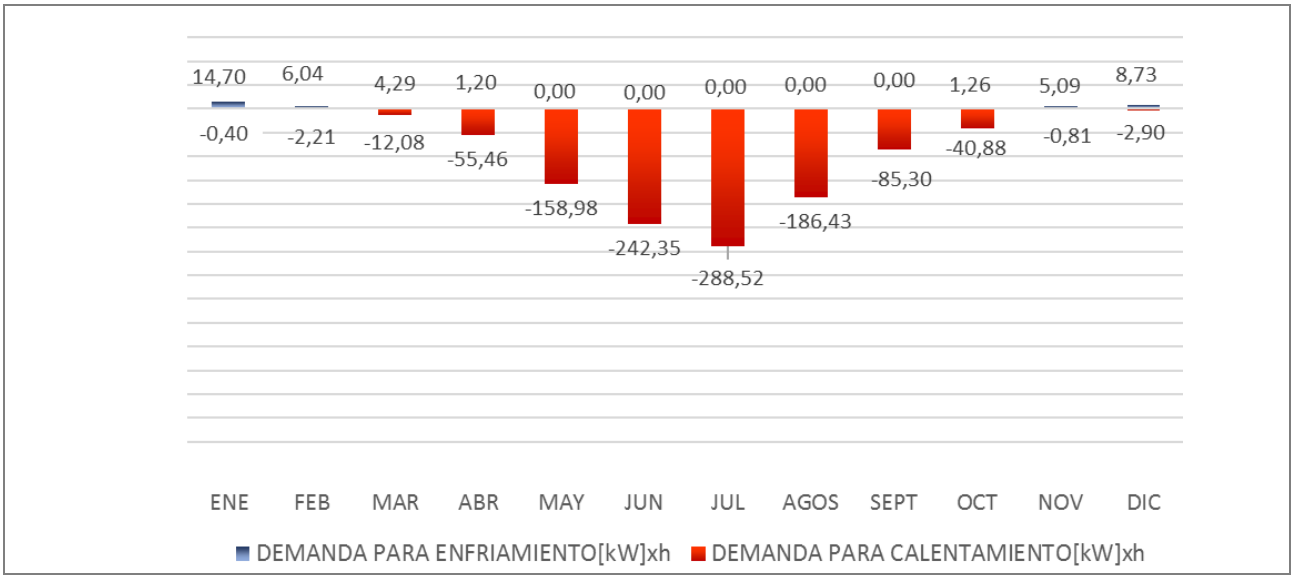
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **168** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.497** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.665** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

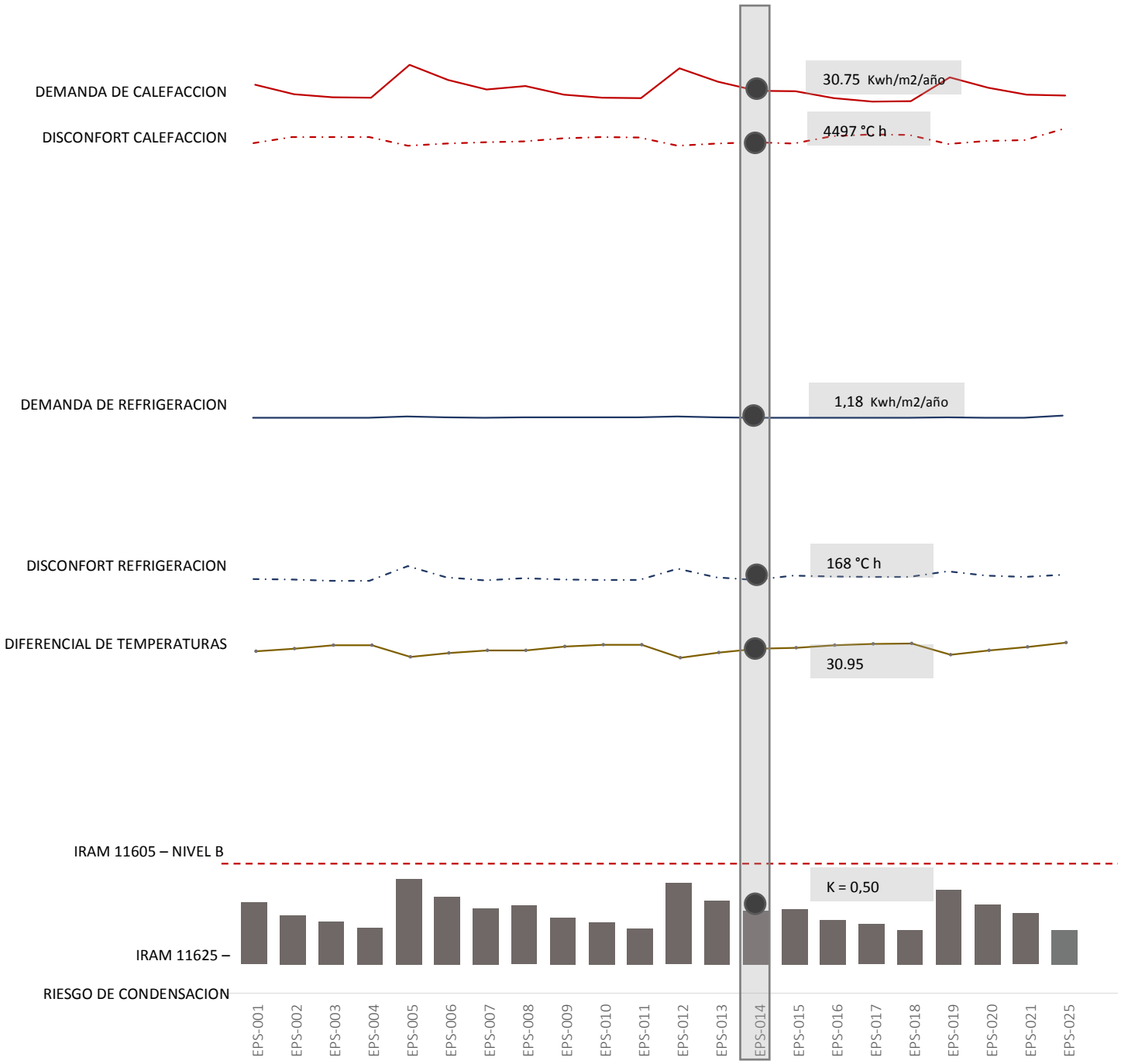



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **41,31** | kWh | 1,18 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.076,32** | kWh | 30,75 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.117,62** | kWh | **31,93** | kWh/m2/año |

| EPS-014 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 121 | N° 116 | N° 092 | N° 054 | N° 052 | N° 039 |



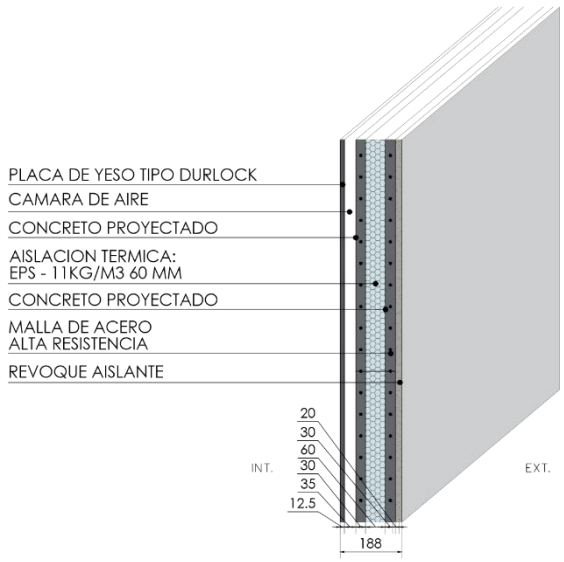

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,5 | 0% | 30,95 | 30,75 | 1,18 | 4497 | 168 |
| INC. FAMILIA | 101,29% | 0,00% | 99,99% | 99,37% | 97,48% | 99,57% | 88,25% |
| INC. MUNDIAL | 42,04% | 0,00% | 100,44% | 74,77% | 19,66% | 100,79% | 32,87% |

| EPS-015 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (CONCREHAUS) PM60 + INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

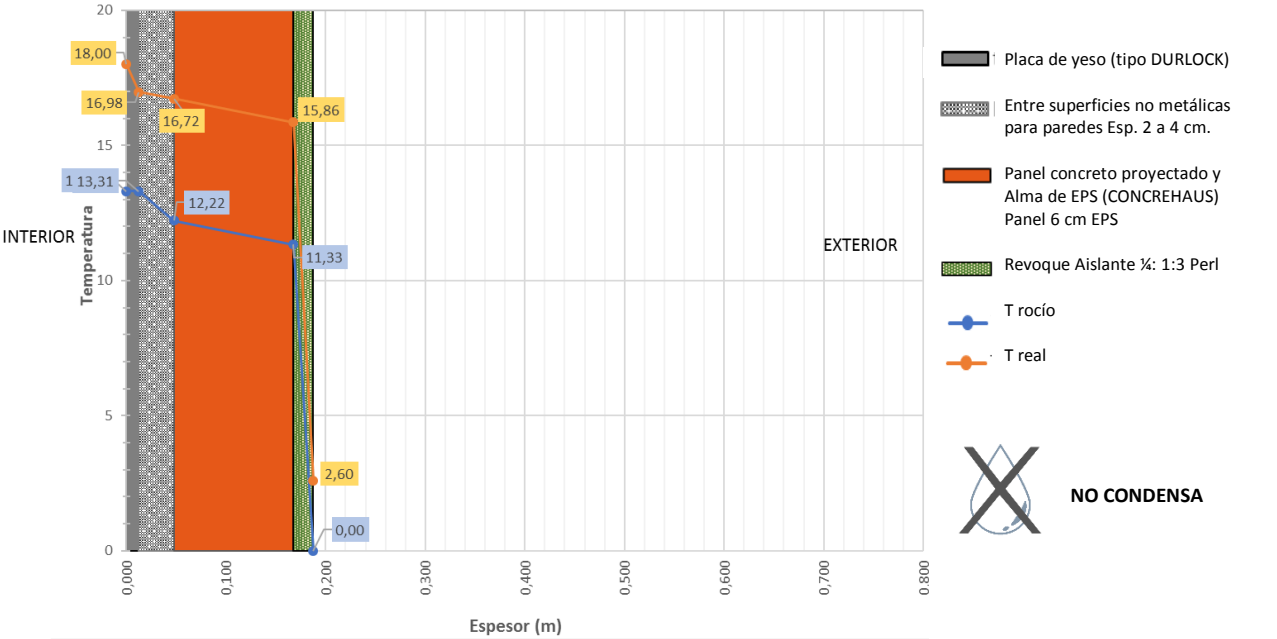
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,51 | 0,51 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



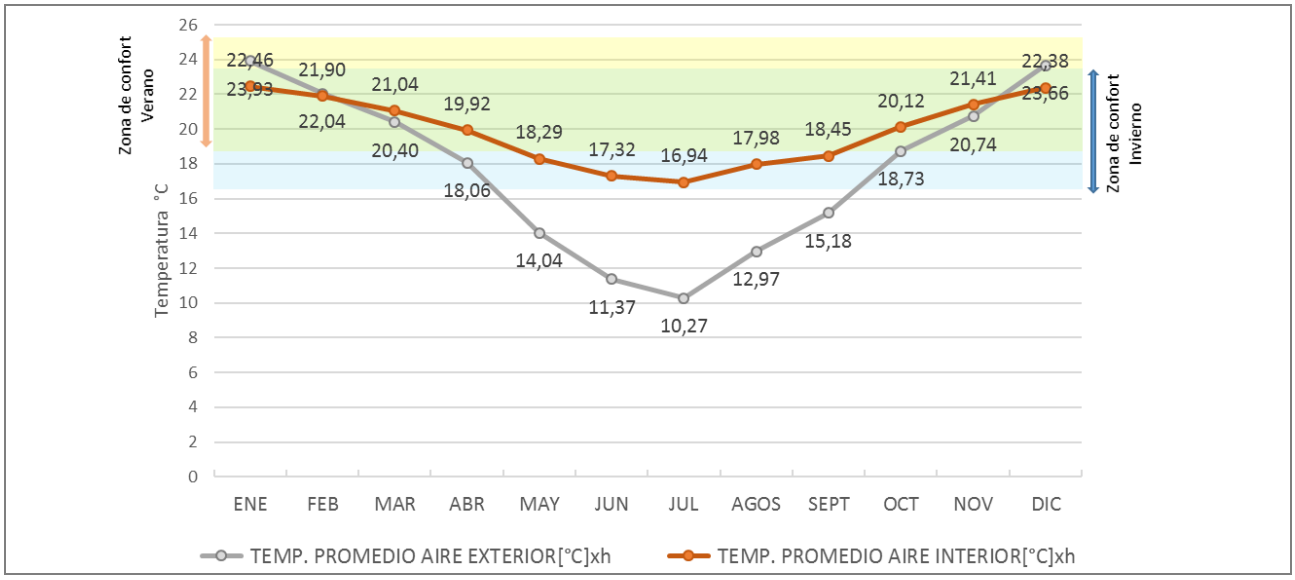

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,8 | 1,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,1** | **3,2** |
| | **Amortiguamiento:** | 0,217 | 0,302 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,1** | **3,2** |
| | **Amortiguamiento:** | 0,340 | 0,430 |

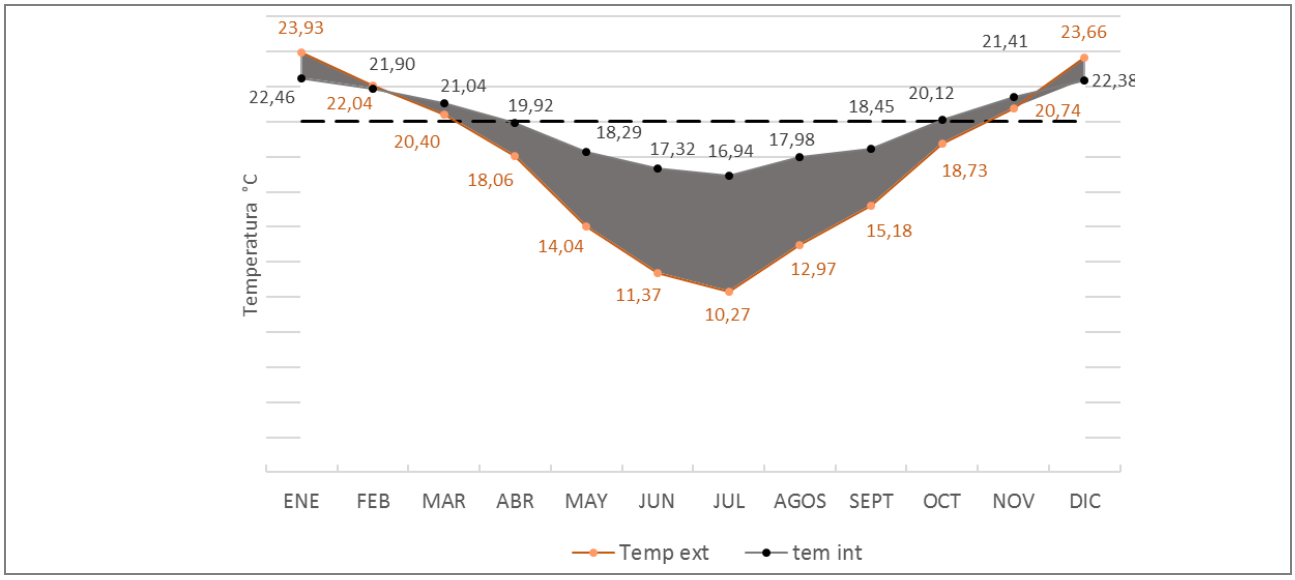
| EPS-015 | MU | ALMA EPS |
|---|---|---|

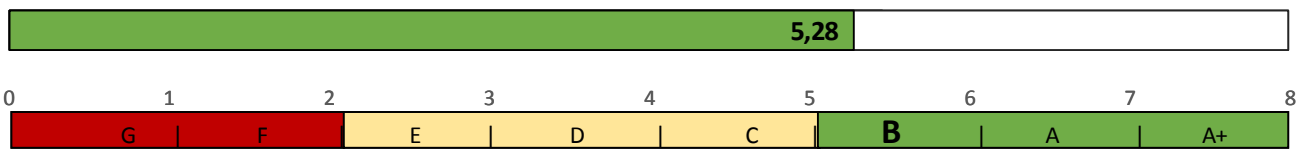
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,80** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,61** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



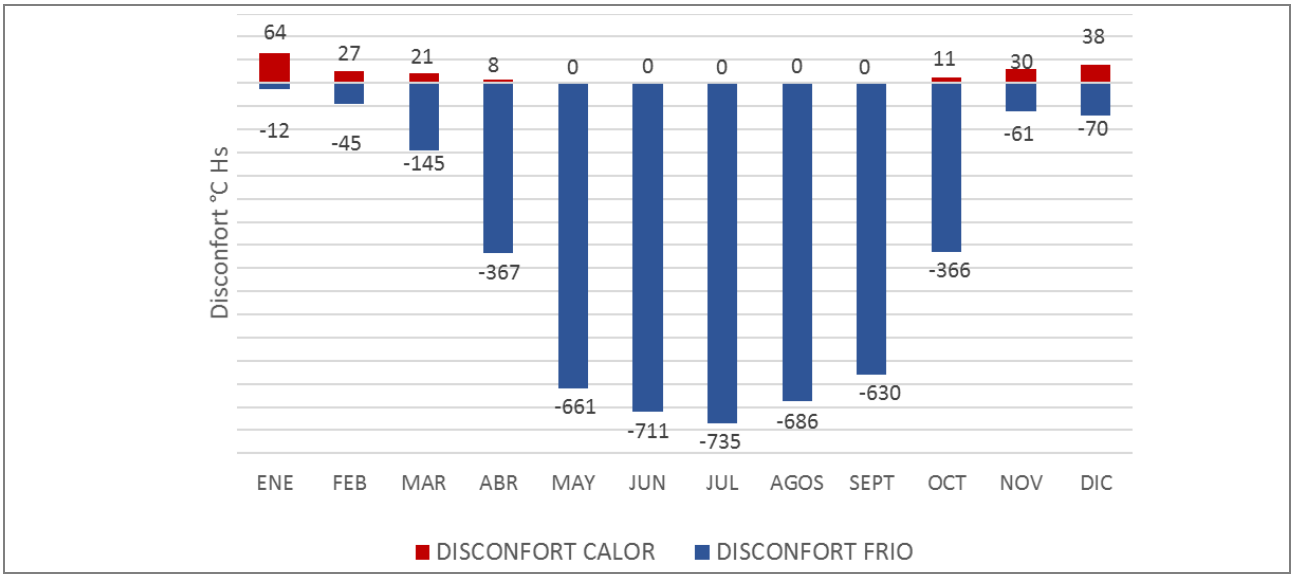




5,28 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| EPS-015 | MU | ALMA EPS |
|---|---|---|

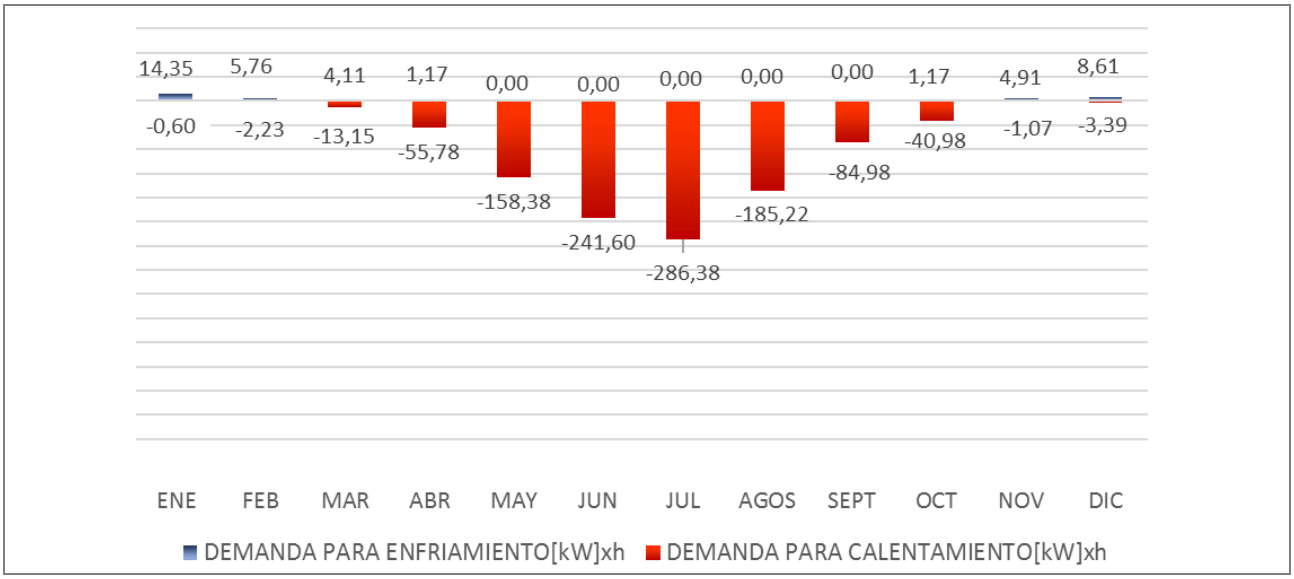
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **199** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.488** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.687** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

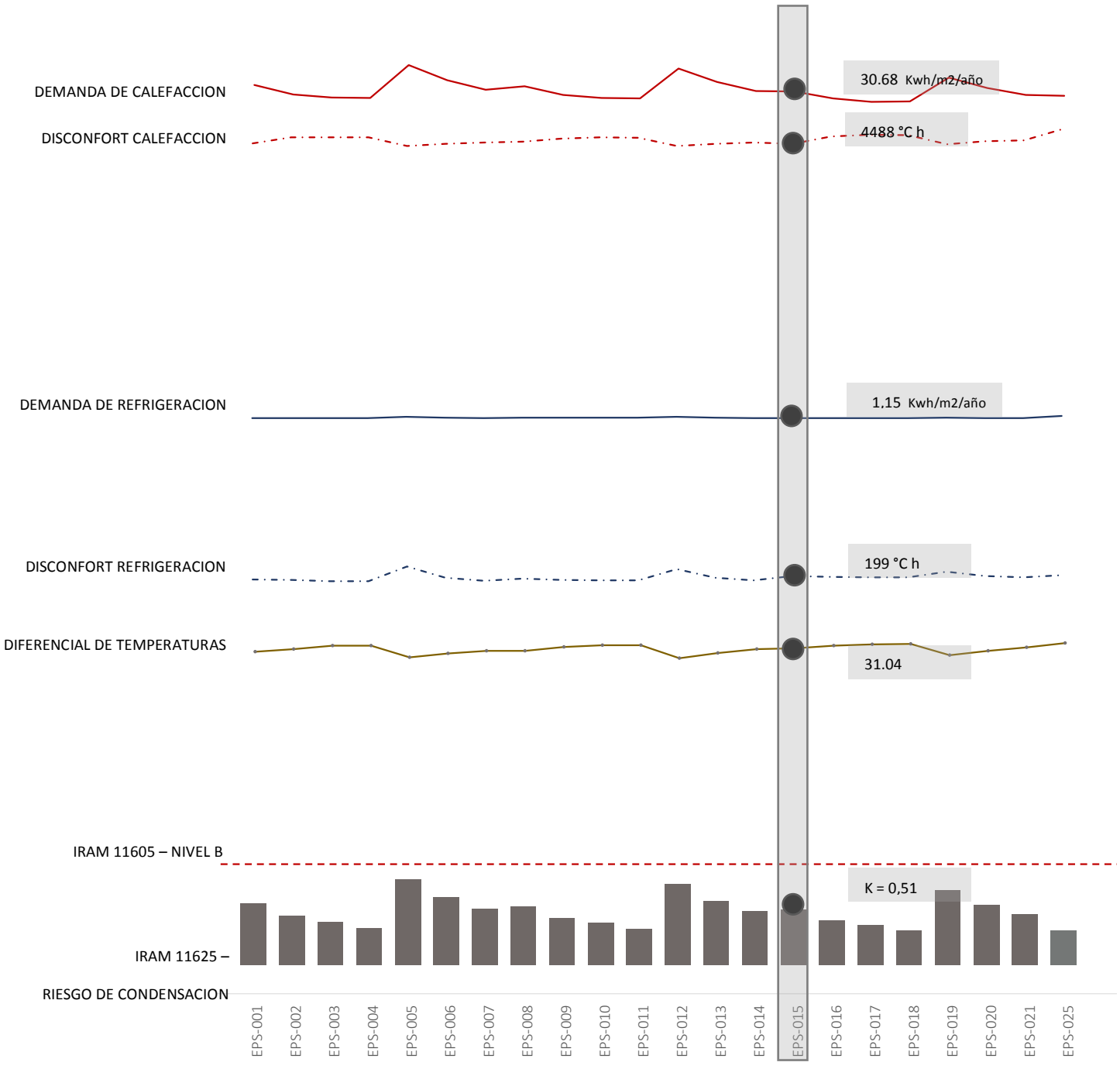



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **40,09** | kWh | 1,15 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.073,78** | kWh | 30,68 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.113,86** | kWh | **31,82** | kWh/m2/año |

| EPS-015 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 125 | N° 105 | N° 088 | N° 048 | N° 043 | N°089 |



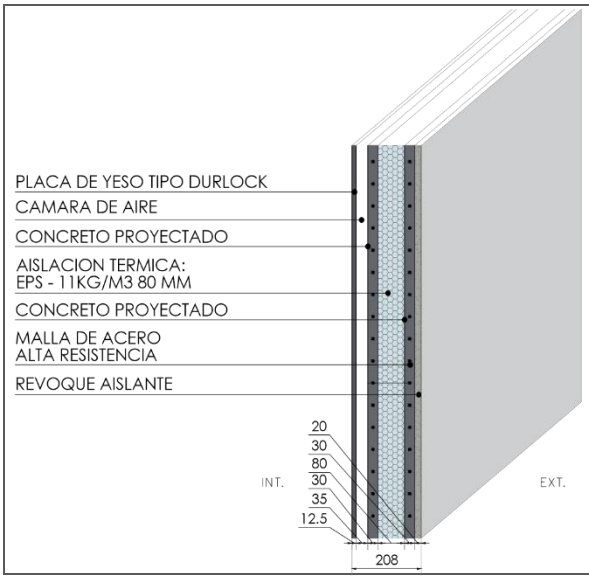

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,51 | 0% | 31,04 | 30,68 | 1,15 | 4488 | 199 |
| INC. FAMILIA | 103,31% | 0,00% | 100,28% | 99,14% | 95,01% | 99,37% | 104,54% |
| INC. MUNDIAL | 42,88% | 0,00% | 100,73% | 74,60% | 19,16% | 100,59% | 38,93% |

| EPS-016 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CONCREHAUS) PM80 + INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

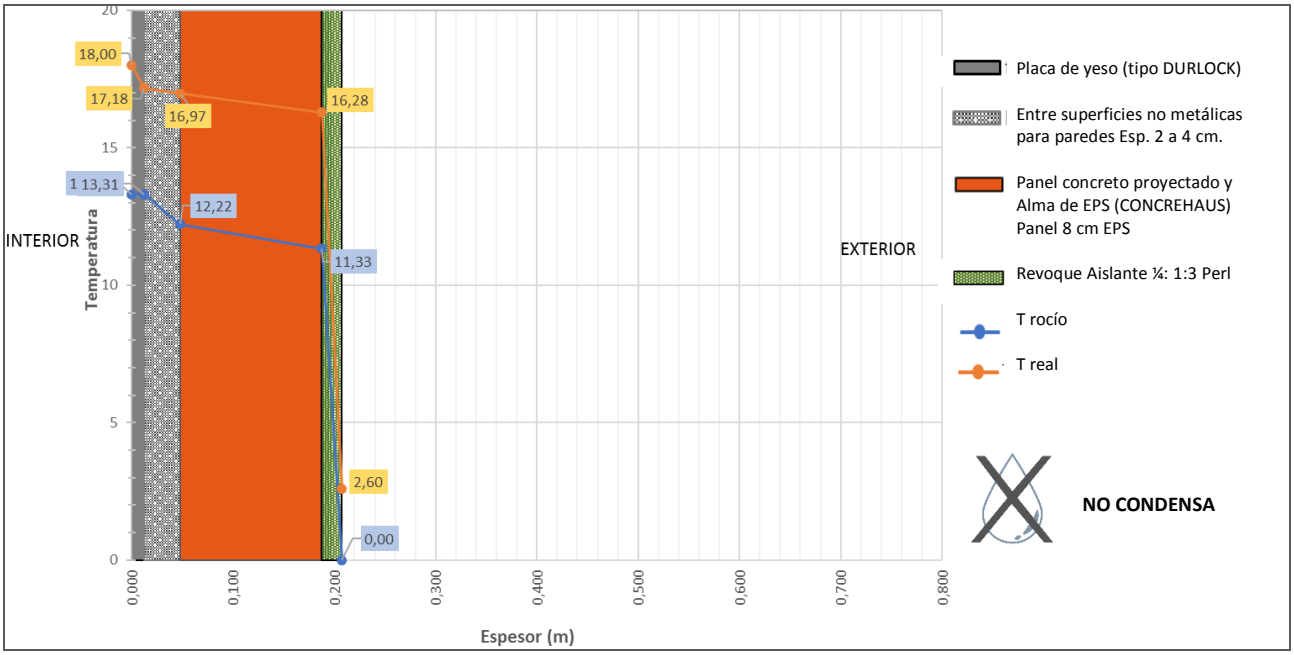
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,41 | 0,41 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



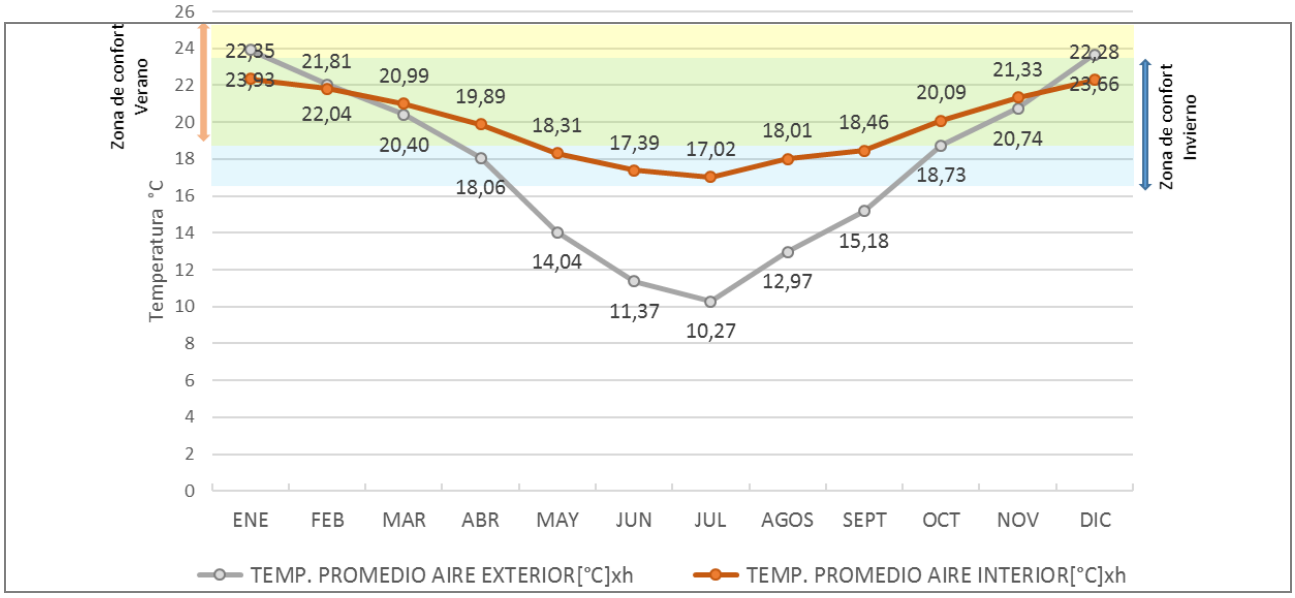

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 2,2 | Invierno 1,3 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,6** | **3,6** |
| | **Amortiguamiento:** | 0,180 | 0,260 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,6** | **3,6** |
| | **Amortiguamiento:** | 0,301 | 0,390 |

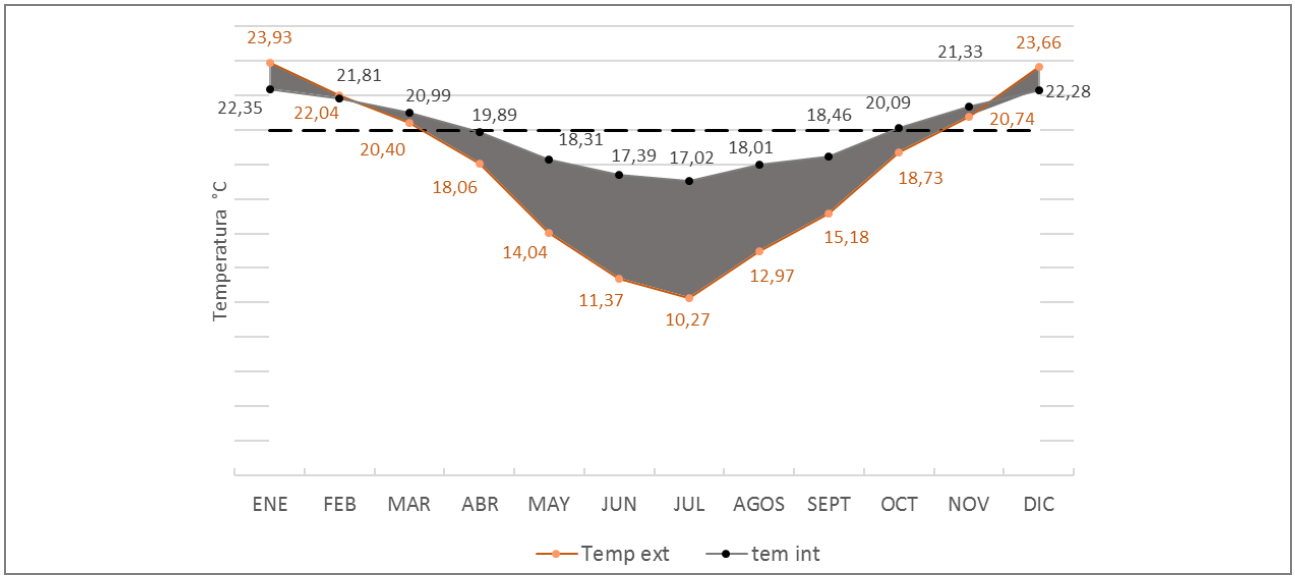
| EPS-016 | MU | ALMA EPS |
|---|---|---|

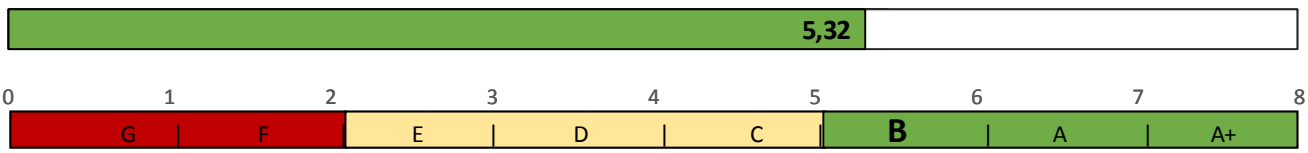
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,82** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,69** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



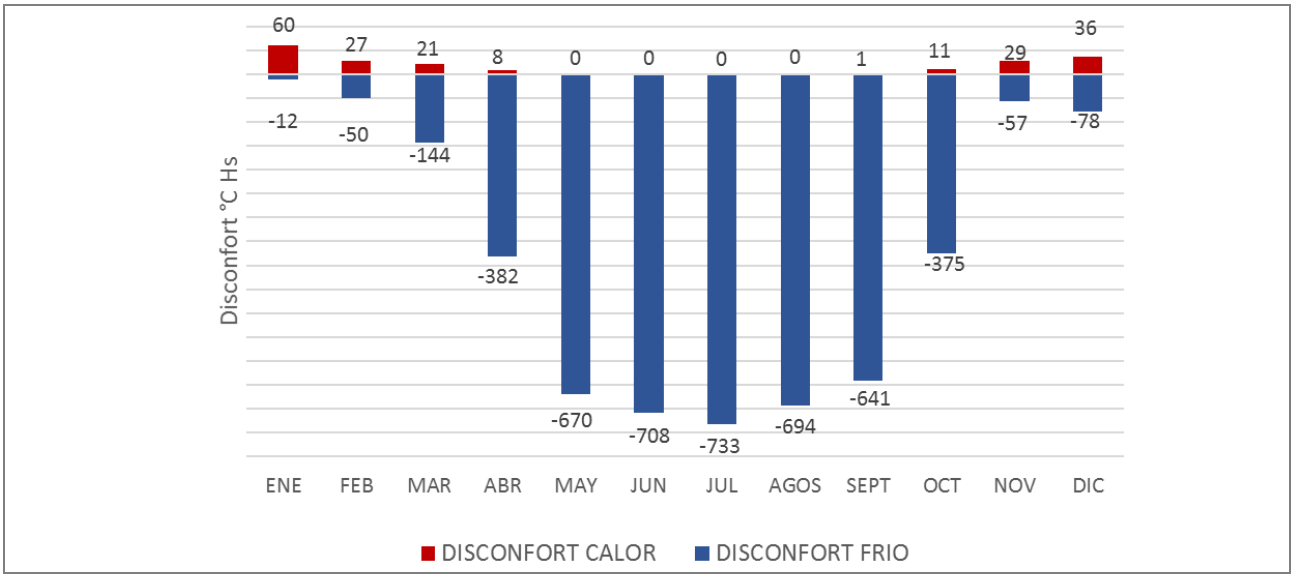




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| EPS-016 | MU | ALMA EPS |
|---|---|---|

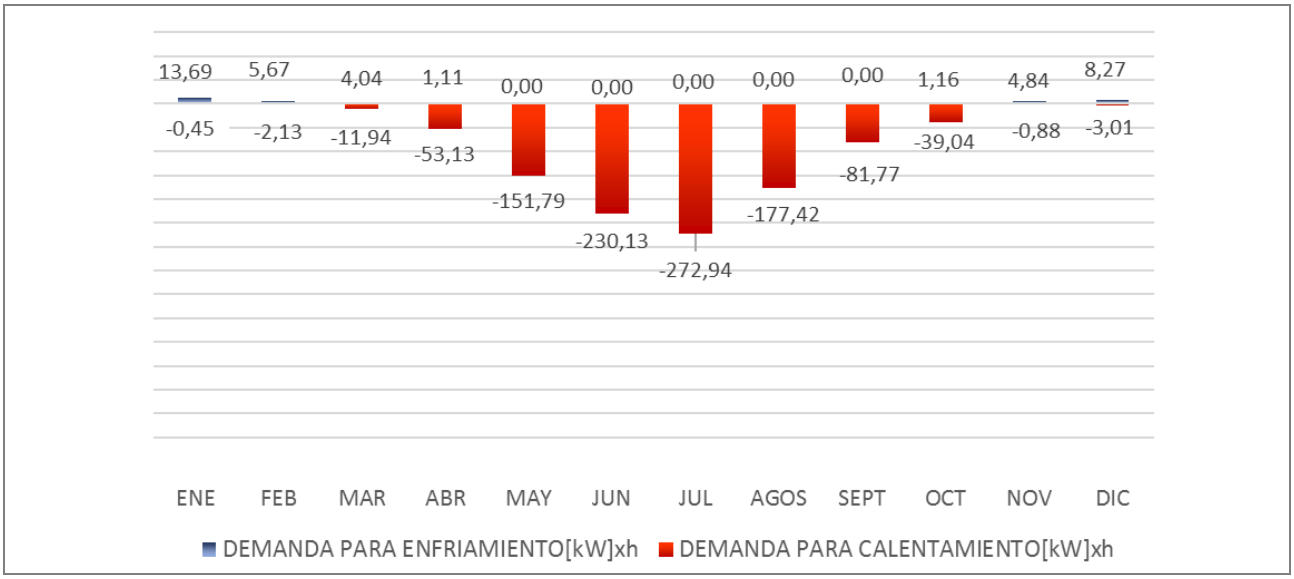
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **193** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.543** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.736** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

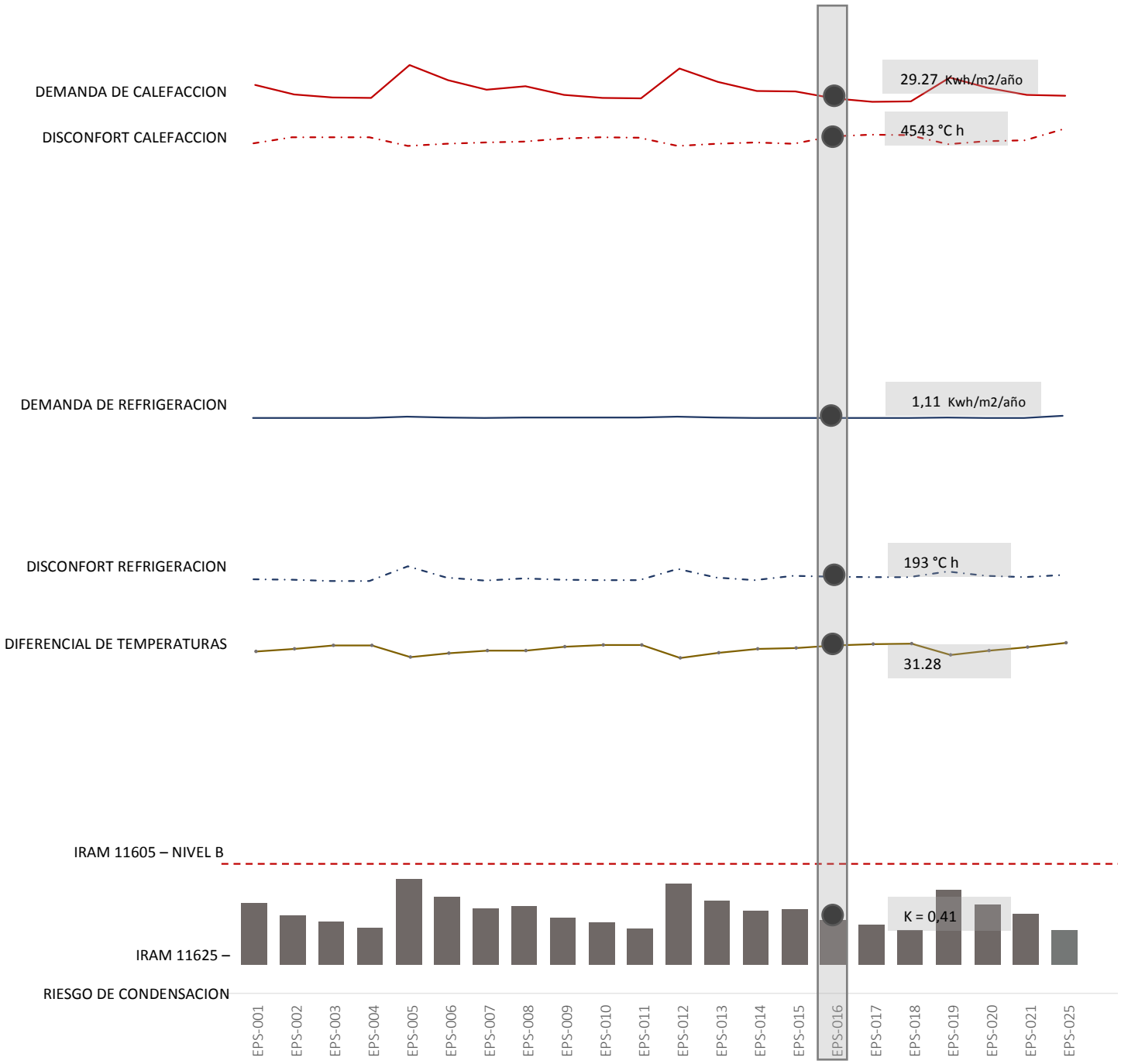



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **38,77** | kWh | 1,11 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.024,61** | kWh | 29,27 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.063,38** | kWh | **30,38** | kWh/m2/año |

| EPS-016 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 076 | N° 080 | N° 037 | N° 039 | N° 096 | N° 082 |



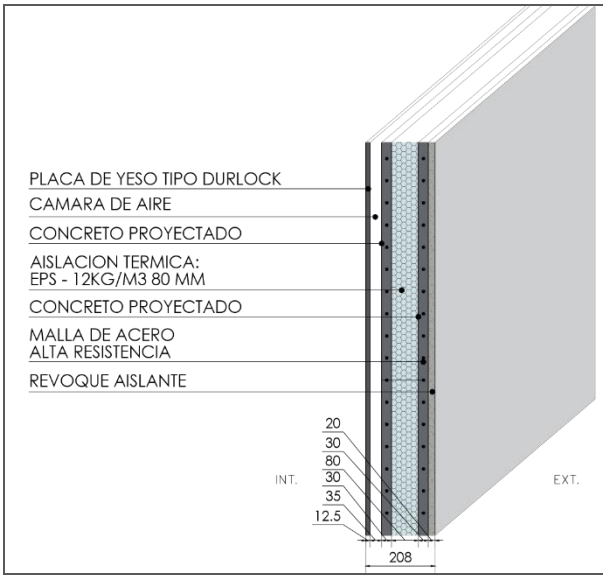

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,41 | 0% | 31,28 | 29,27 | 1,11 | 4543 | 193 |
| INC. FAMILIA | 83,06% | 0,00% | 101,05% | 94,58% | 91,70% | 100,59% | 101,38% |
| INC. MUNDIAL | 34,47% | 0,00% | 101,51% | 71,17% | 18,49% | 101,83% | 37,76% |

| EPS-017 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (CONCREHAUS) PM80 + INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

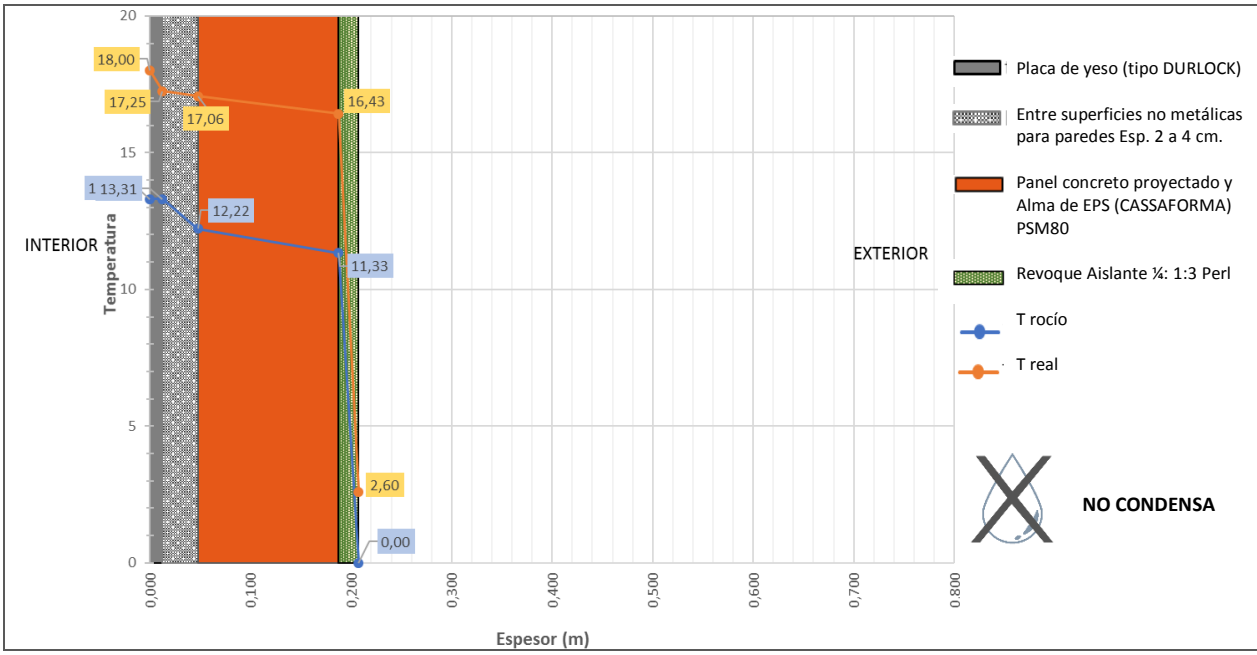
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,37 | 0,37 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



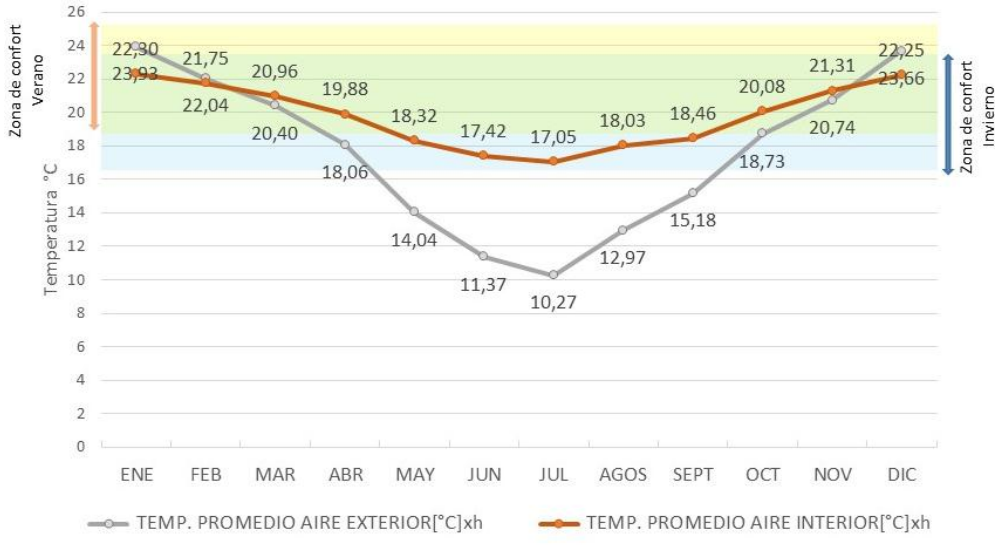

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 2,0 | Invierno 1,2 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,9** | **3,8** |
| | **Amortiguamiento:** | 0,165 | 0,243 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,8** | **3,8** |
| | **Amortiguamiento:** | 0,285 | 0,374 |

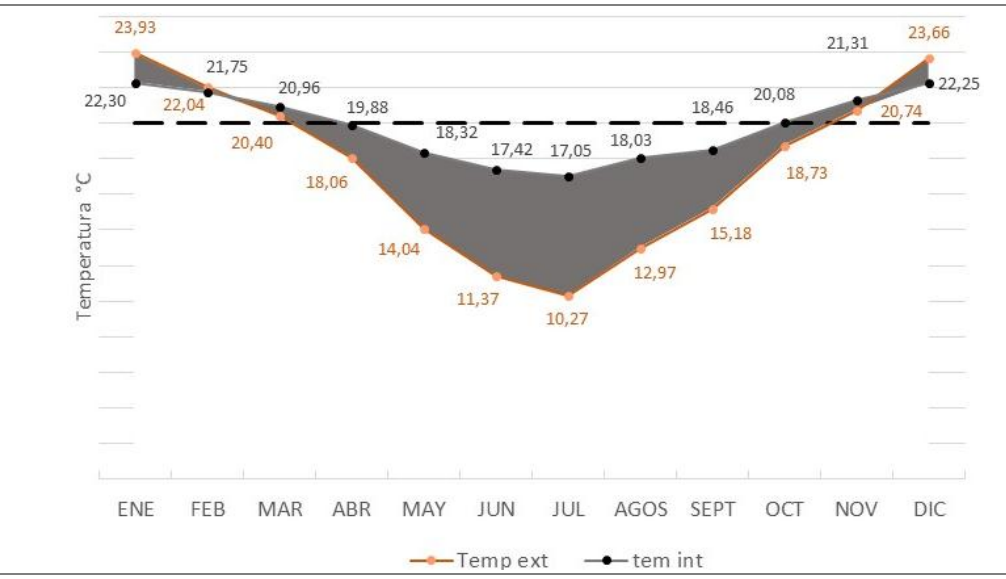
| EPS-017 | MU | ALMA EPS |
|---|---|---|

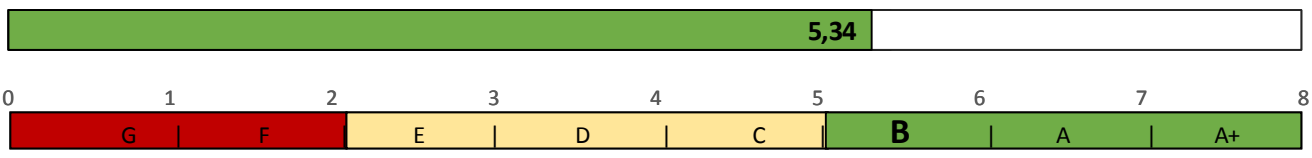
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,78** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,74** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



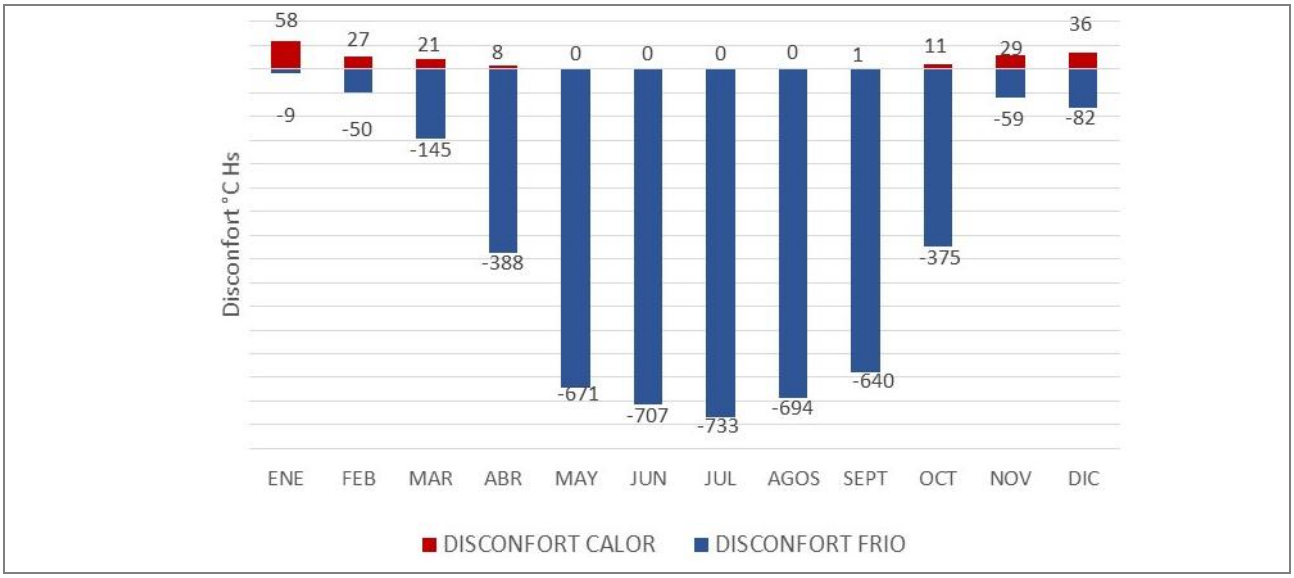




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| EPS-017 | MU | ALMA EPS |
|---|---|---|

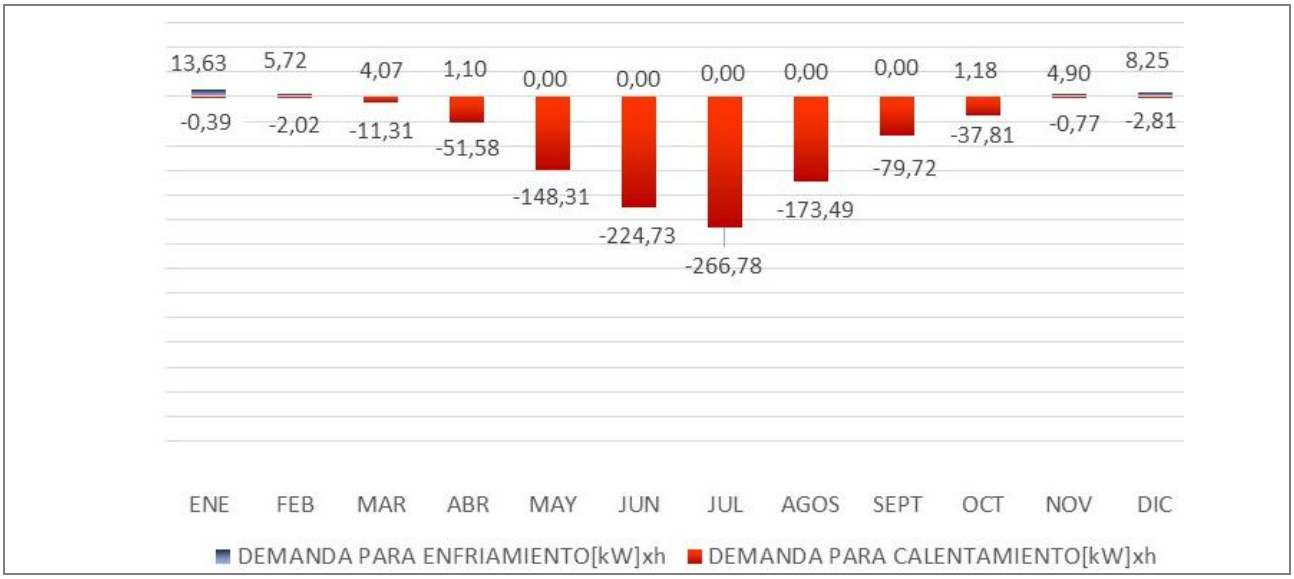
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **190** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.555** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.745** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

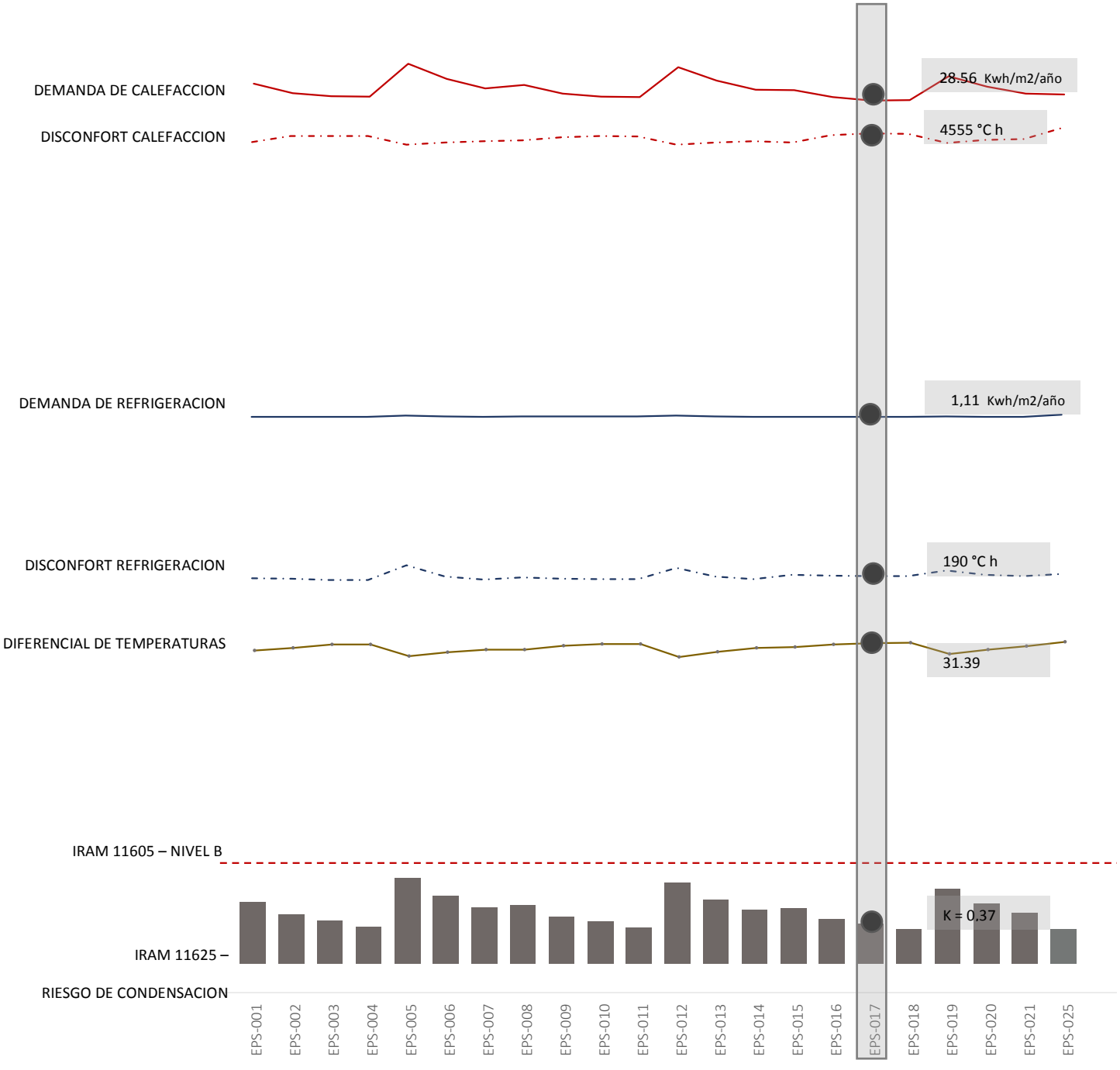



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **38,85** | kWh | 1,11 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **999,73** | kWh | 28,56 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.038,58** | kWh | **29,67** | kWh/m2/año |

| EPS-017 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 061 | N° 054 | N° 015 | N° 038 | N° 109 | N° 075 |



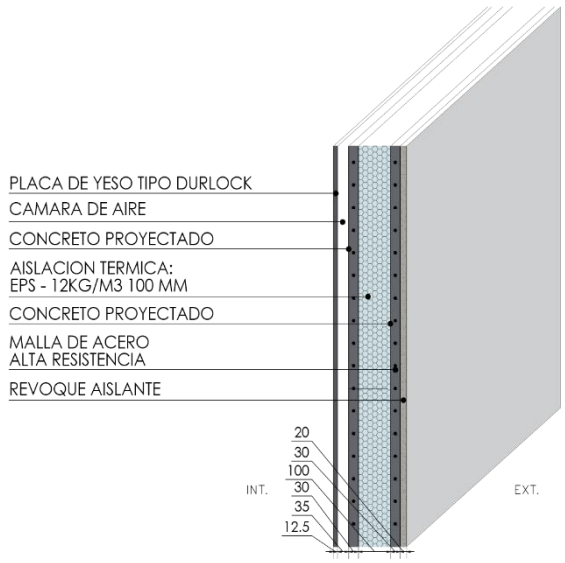

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,37 | 0% | 31,39 | 28,56 | 1,11 | 4555 | 190 |
| INC. FAMILIA | 74,95% | 0,00% | 101,41% | 92,29% | 91,70% | 100,86% | 99,81% |
| INC. MUNDIAL | 31,11% | 0,00% | 101,87% | 69,45% | 18,49% | 102,09% | 37,17% |

| EPS-018 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 16 CM (CASSAFORMA) PM100 +INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

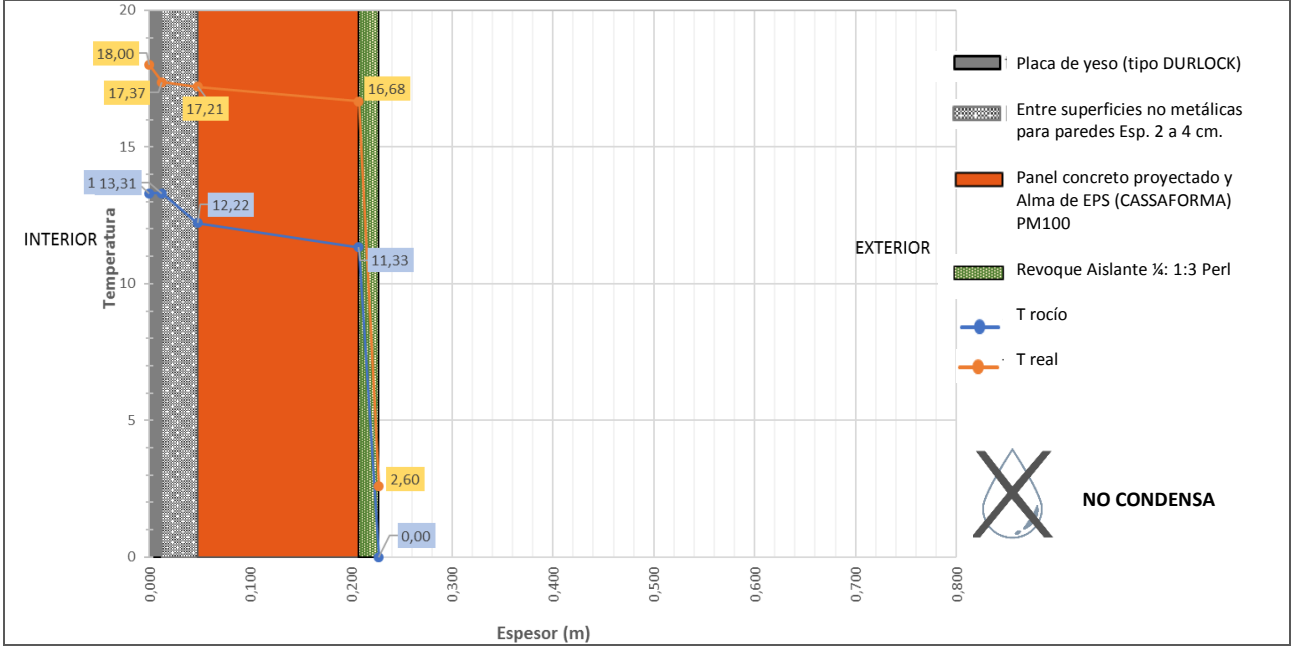
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,32 | 0,32 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



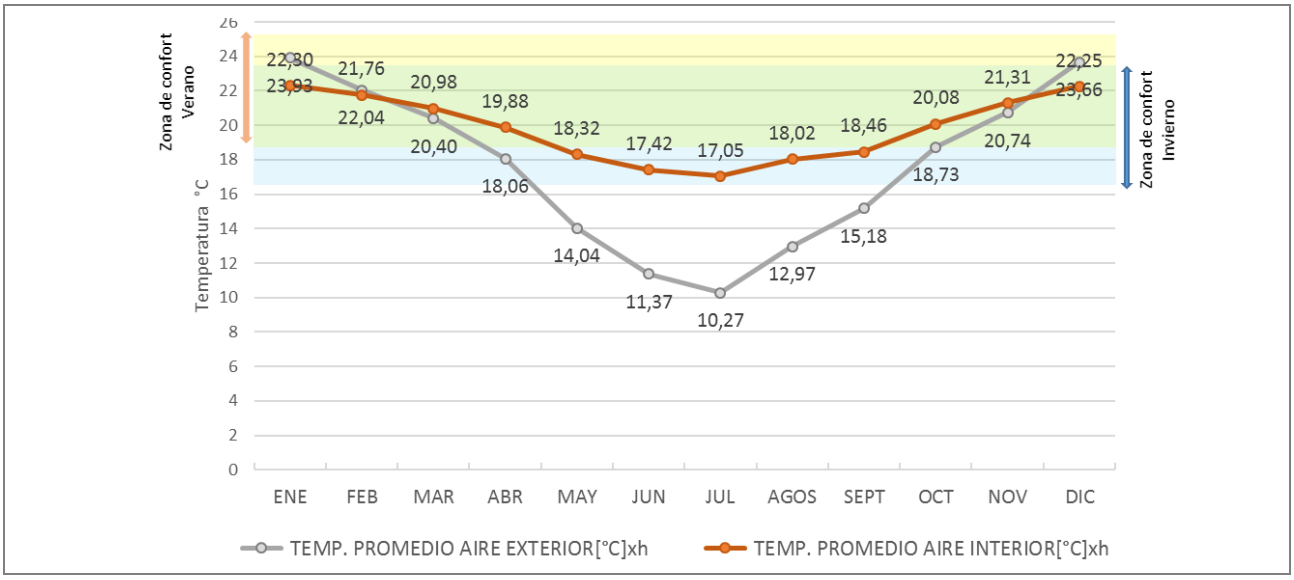

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,6 | 1,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,3** | **4,2** |
| | **Amortiguamiento:** | 0,139 | 0,212 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,2** | **4,1** |
| | **Amortiguamiento:** | 0,255 | 0,342 |

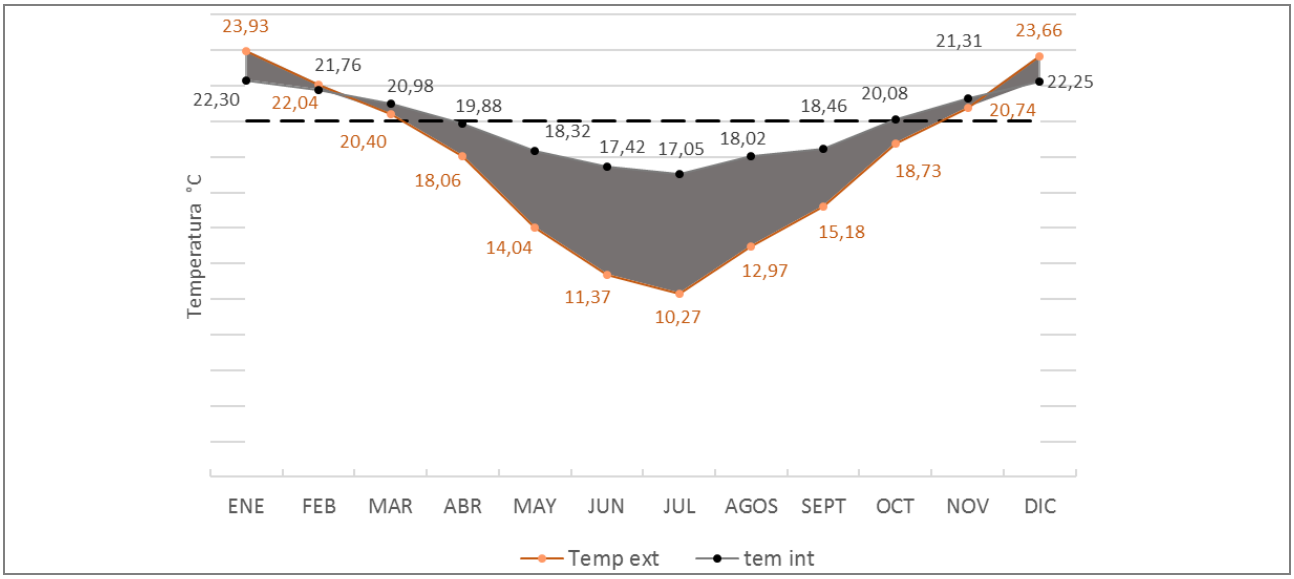
| EPS-018 | MU | ALMA EPS |
|---|---|---|

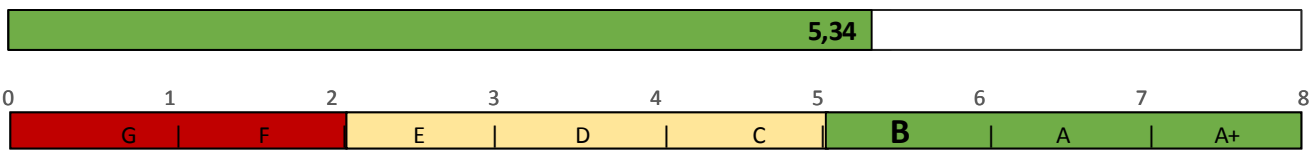
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,80** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,73** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



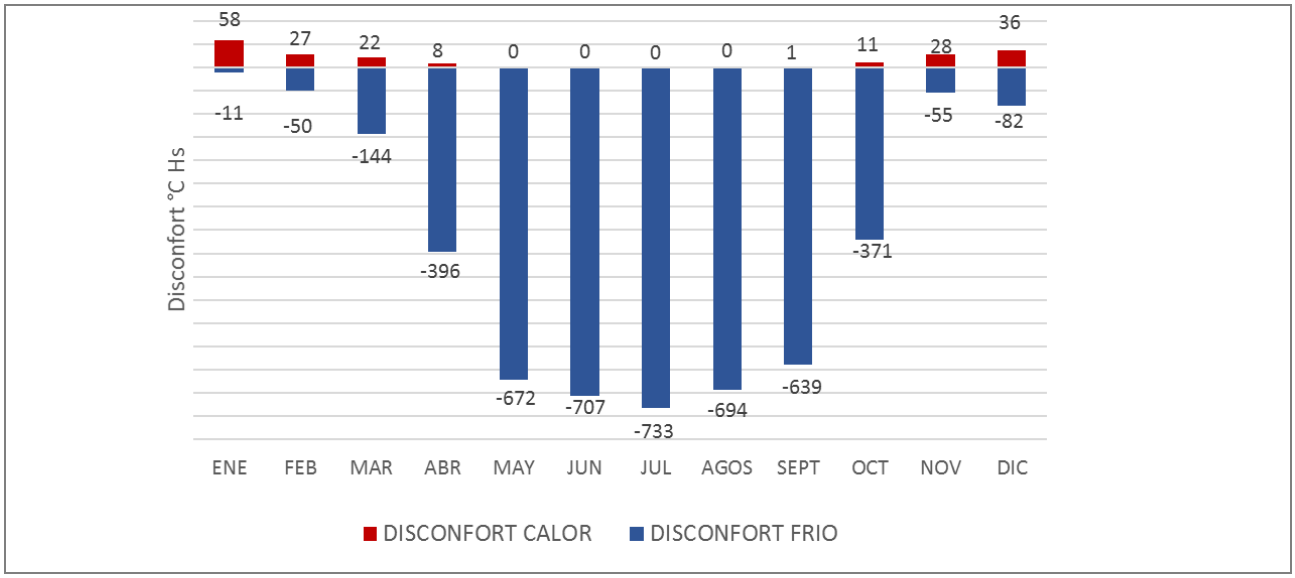




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| EPS-018 | MU | ALMA EPS |
|---|---|---|

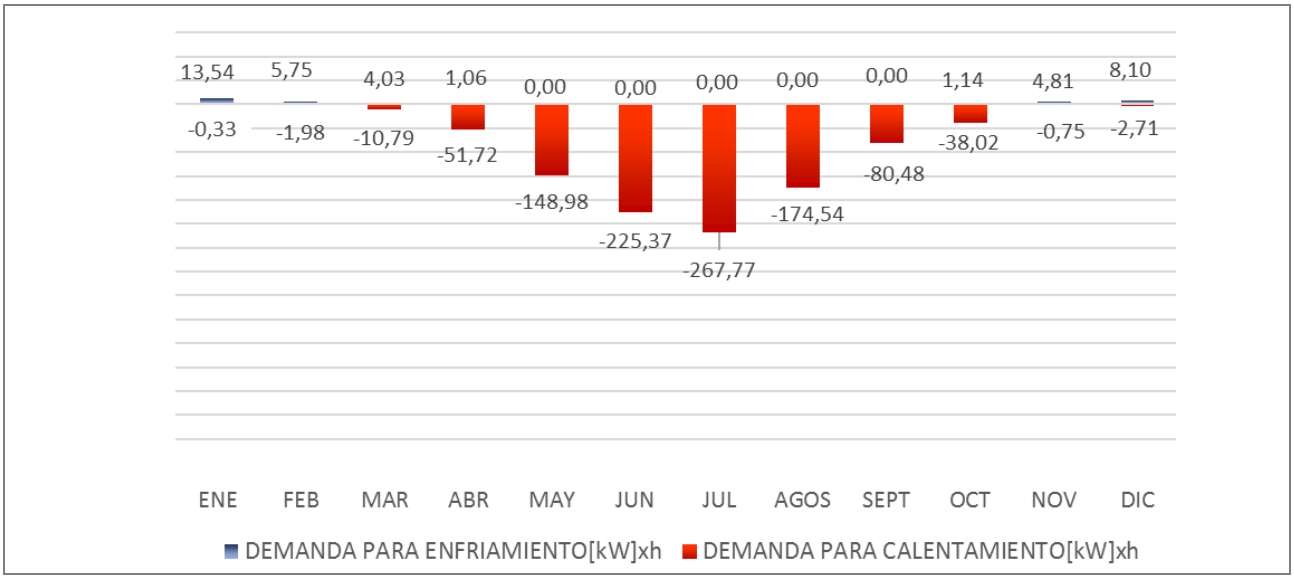
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **191** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.554** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.744** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

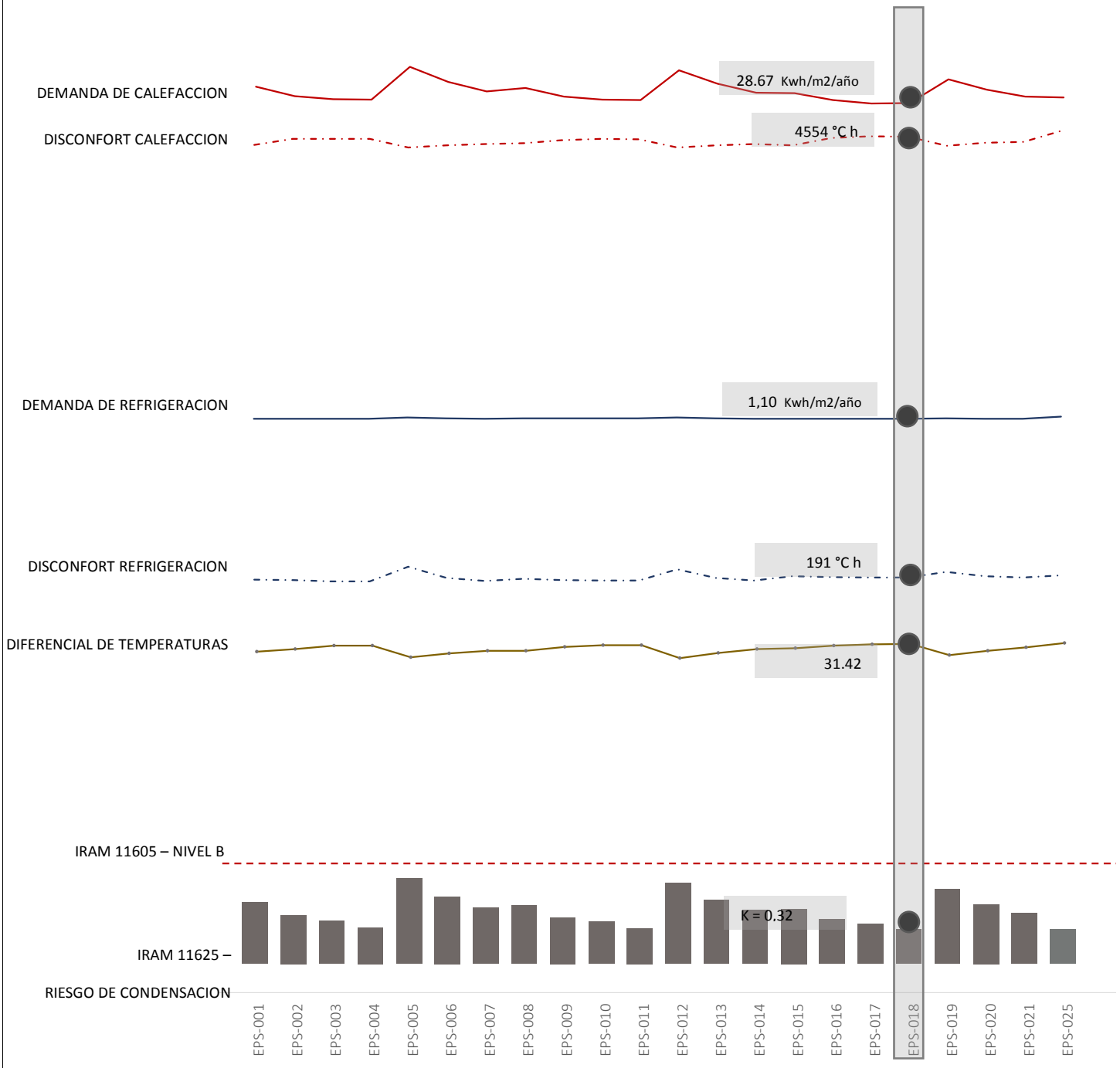



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **38,43** | kWh | 1,10 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.003,44** | kWh | 28,67 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.041,87** | kWh | **29,77** | kWh/m2/año |

| EPS-018 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 025 | N° 044 | N° 018 | N° 036 | N° 108 | N° 077 |



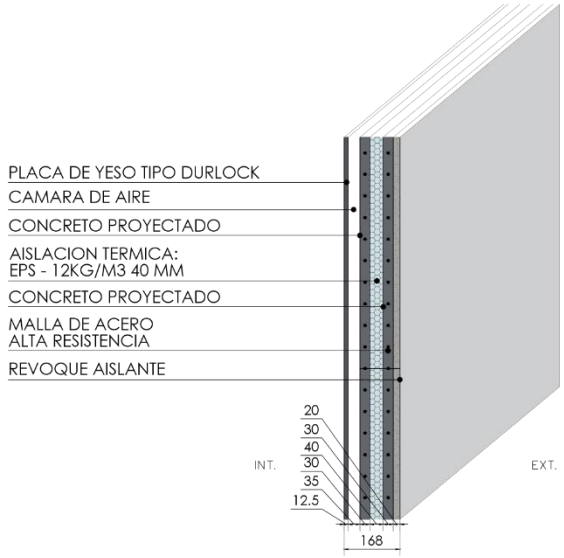

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,32 | 0% | 31,42 | 28,67 | 1,1 | 4554 | 191 |
| INC. FAMILIA | 64,83% | 0,00% | 101,51% | 92,65% | 90,87% | 100,83% | 100,33% |
| INC. MUNDIAL | 26,90% | 0,00% | 101,97% | 69,71% | 18,33% | 102,07% | 37,37% |

| EPS-019 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 10 CM (EMEDUE) PM40 +INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

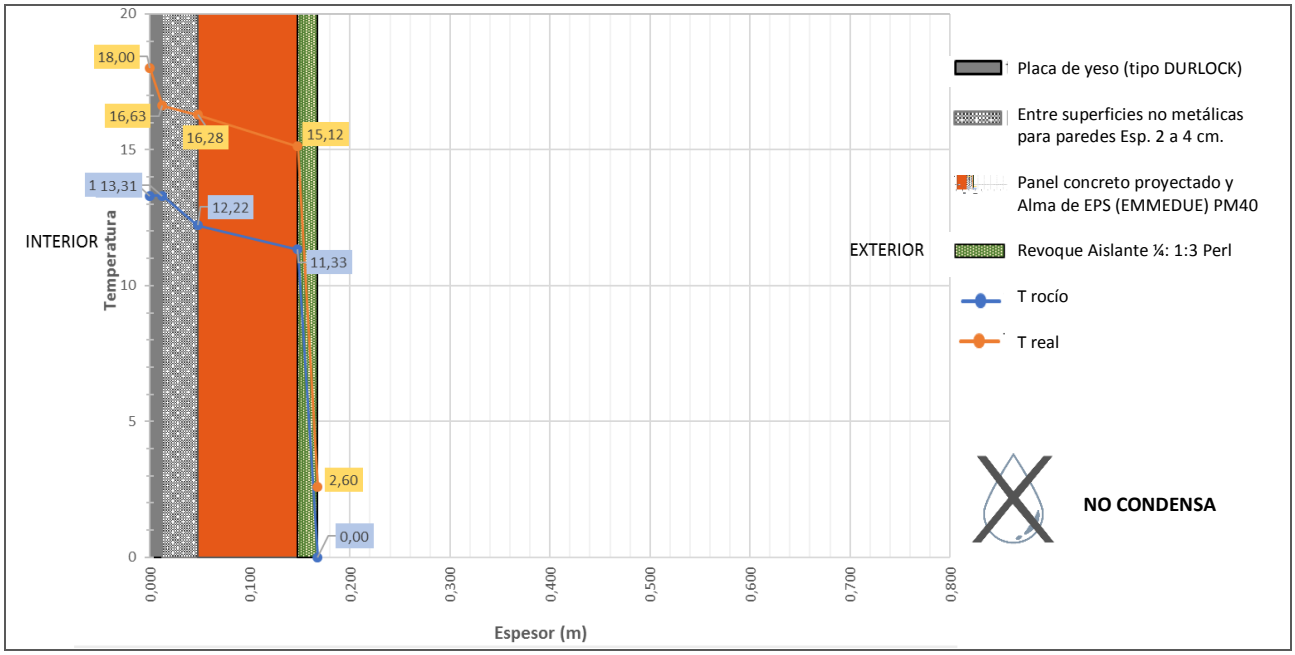
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,69 | 0,69 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



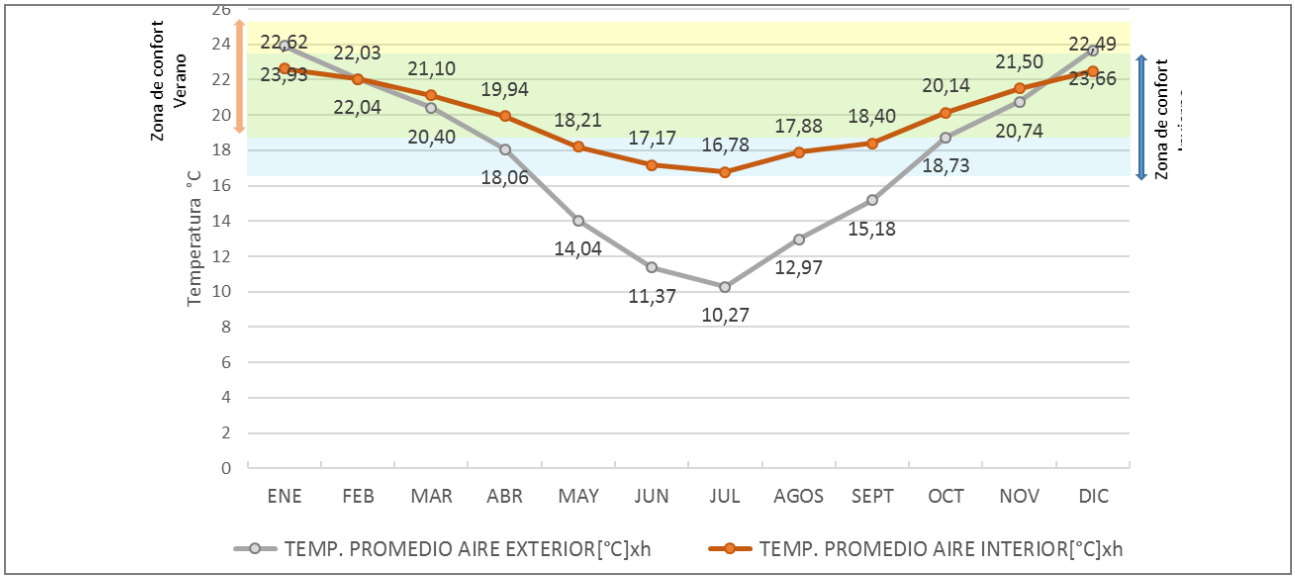

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,8 | 2,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,5** | **2,7** |
| | **Amortiguamiento:** | 0,274 | 0,362 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,5** | **2,8** |
| | **Amortiguamiento:** | 0,395 | 0,484 |

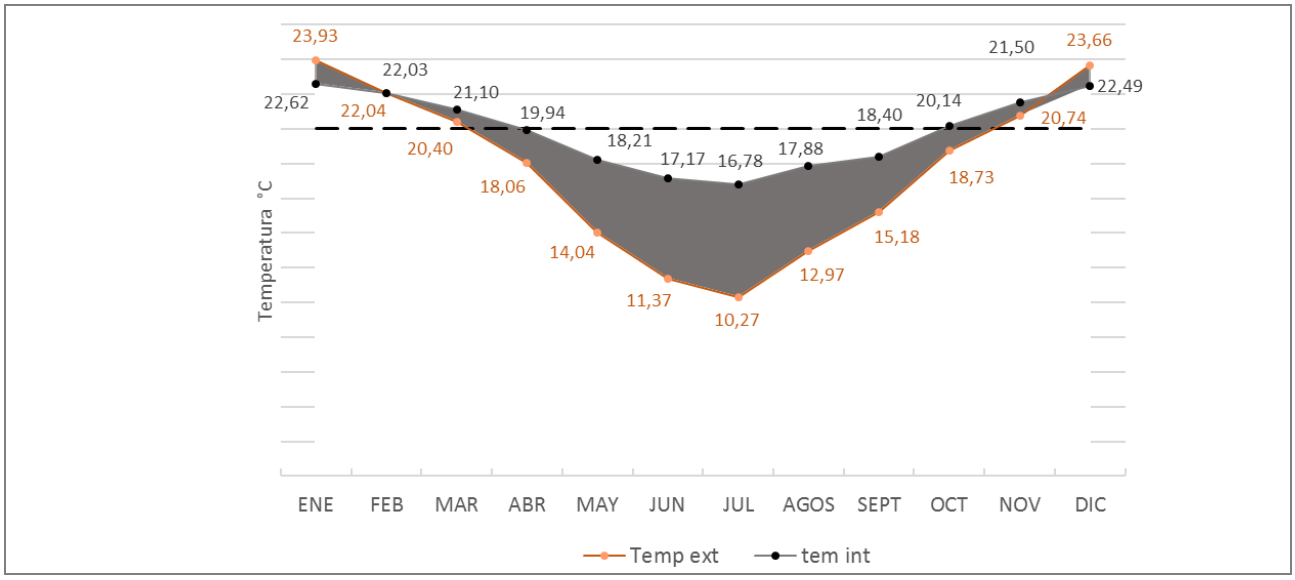
| EPS-019 | MU | ALMA EPS |
|---|---|---|

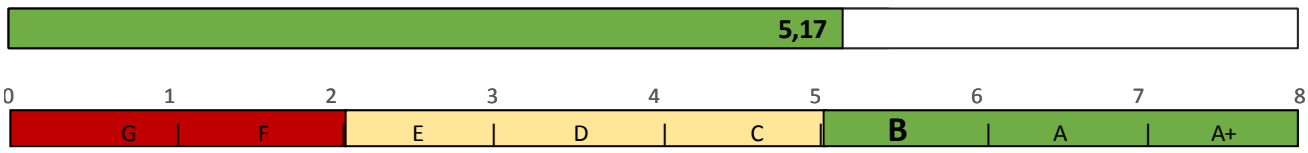
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,18** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,09** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



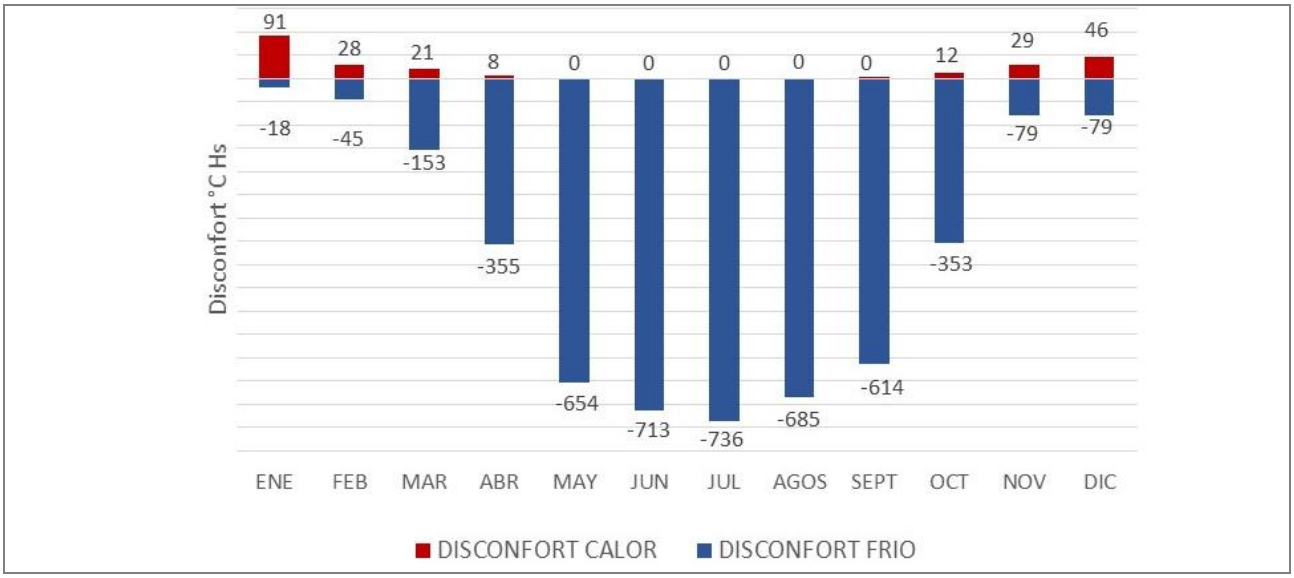




5,17 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| EPS-019 | MU | ALMA EPS |
|---|---|---|

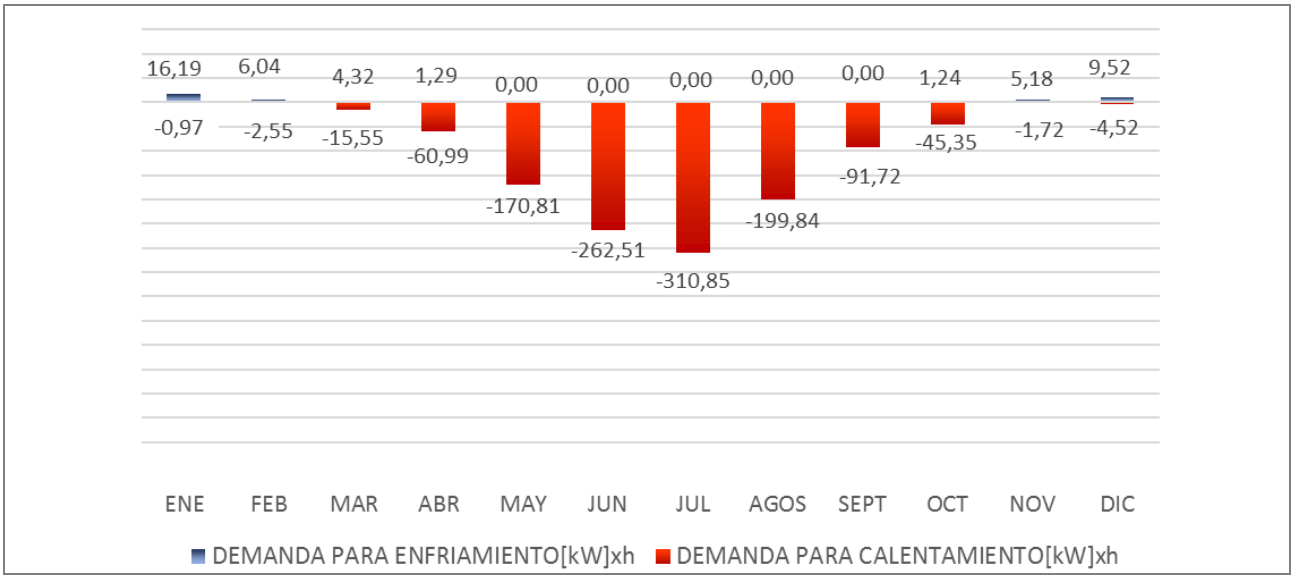
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **235** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.485** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.720** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

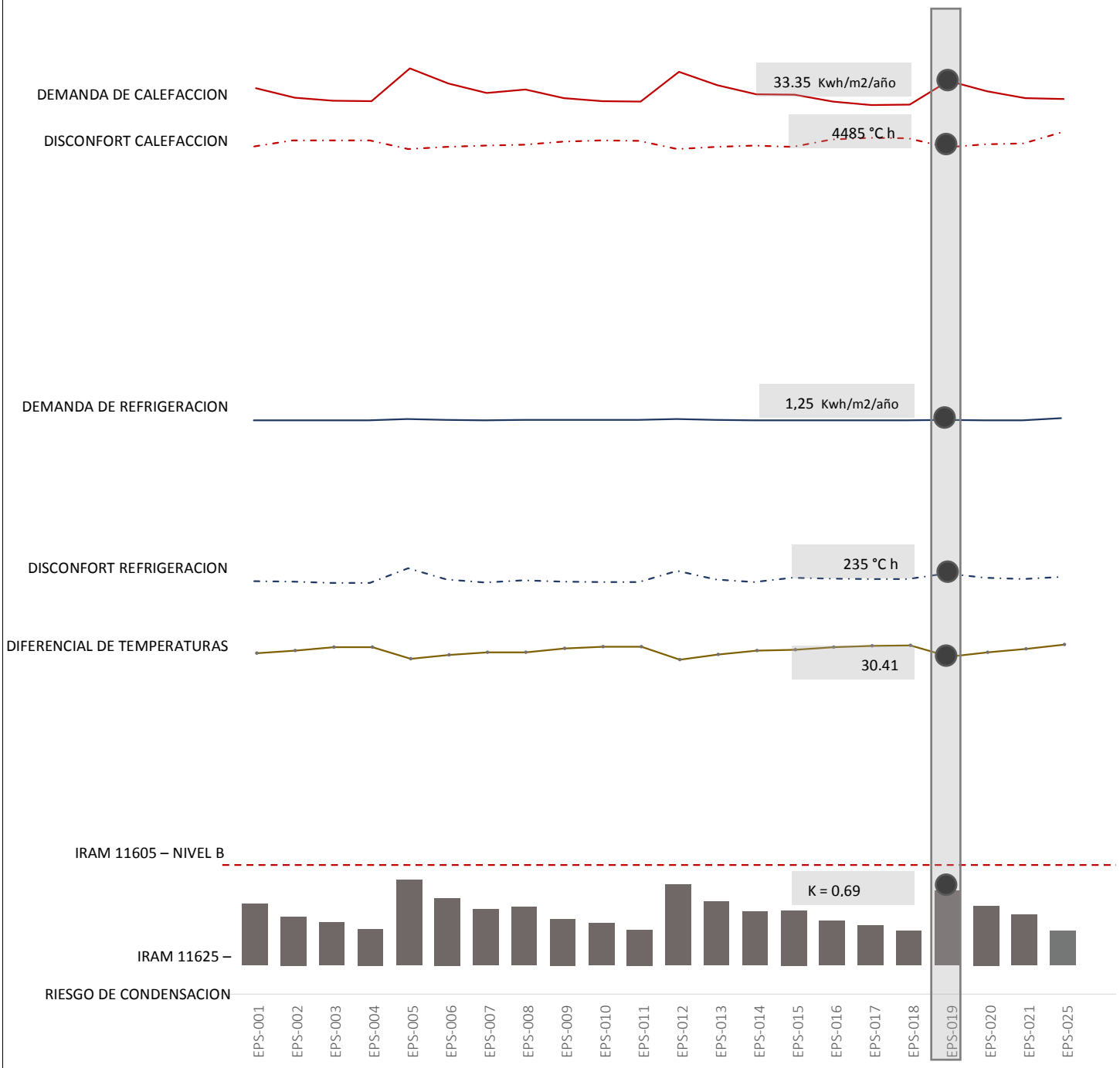



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **43,78** | kWh | 1,25 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.167,38** | kWh | 33,35 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.211,16** | kWh | **34,60** | kWh/m2/año |

| EPS-019 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 155 | N° 152 | N° 140 | N° 073 | N° 036 | N° 126 |



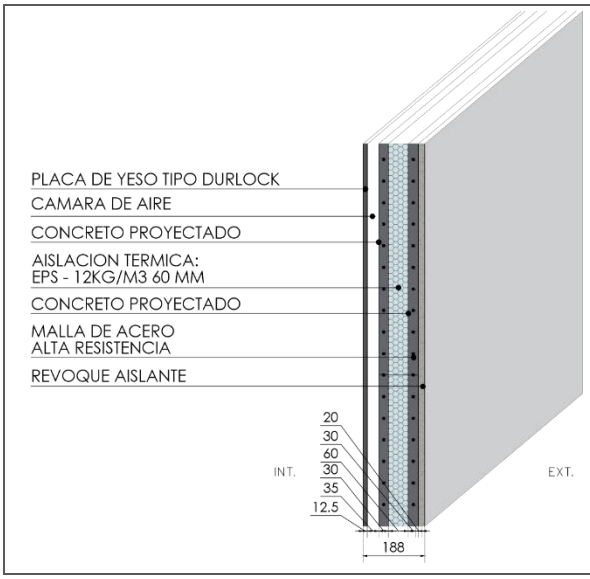

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,69 | 0% | 30,41 | 33,35 | 1,25 | 4485 | 235 |
| INC. FAMILIA | 139,78% | 0,00% | 98,24% | 107,77% | 103,27% | 99,31% | 123,45% |
| INC. MUNDIAL | 58,01% | 0,00% | 98,69% | 81,09% | 20,83% | 100,53% | 45,97% |

| EPS-020 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 12 CM (EMEDUE) PM60 +INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

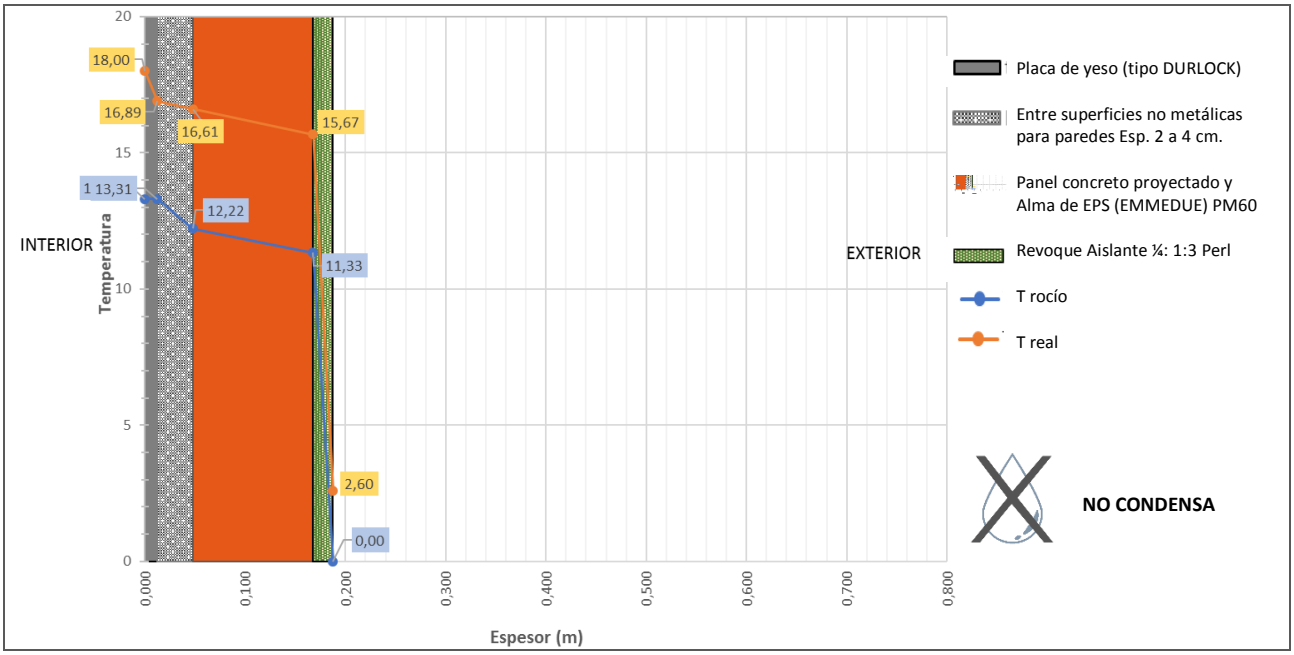
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,55 | 0,55 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



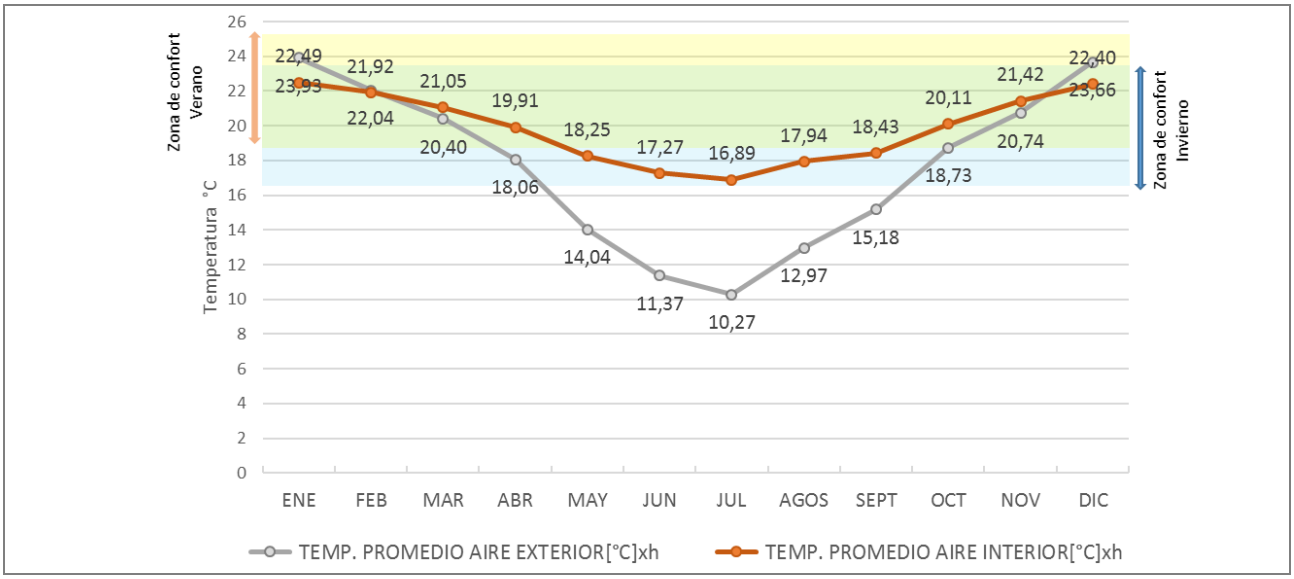

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,0 | 1,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,9** | **3,1** |
| | **Amortiguamiento:** | 0,233 | 0,319 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,9** | **3,1** |
| | **Amortiguamiento:** | 0,356 | 0,445 |

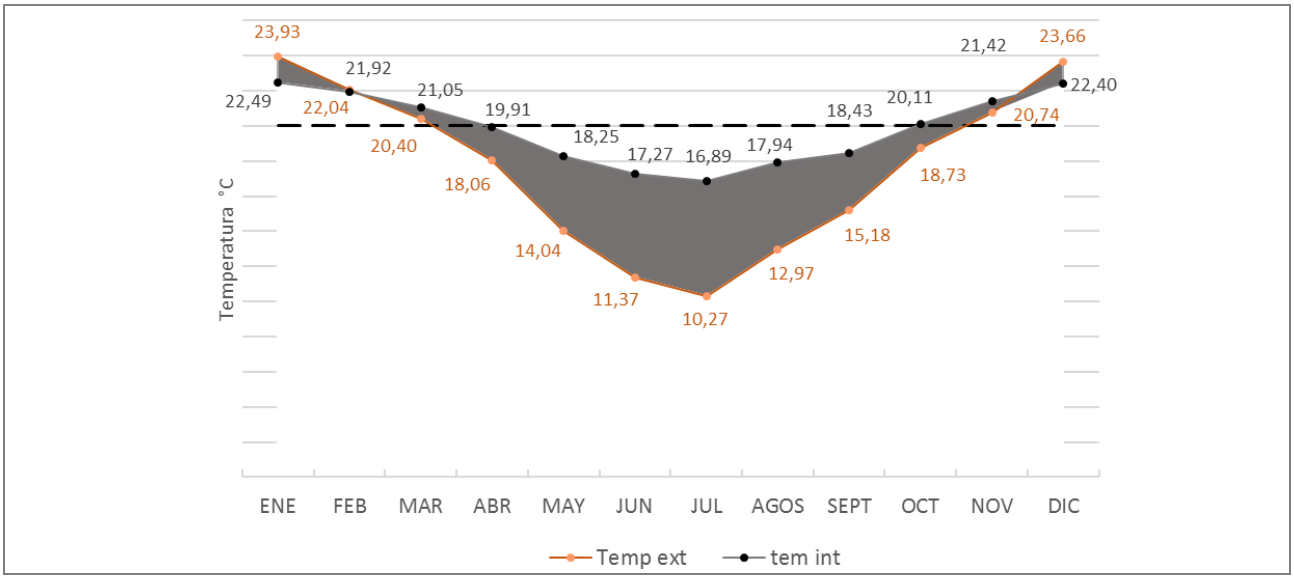
| EPS-020 | MU | ALMA EPS |
|---|---|---|

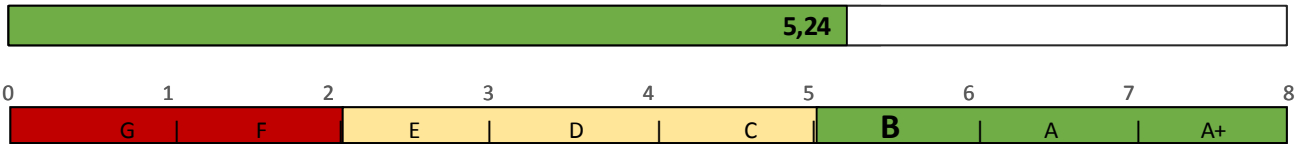
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,97** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,40** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



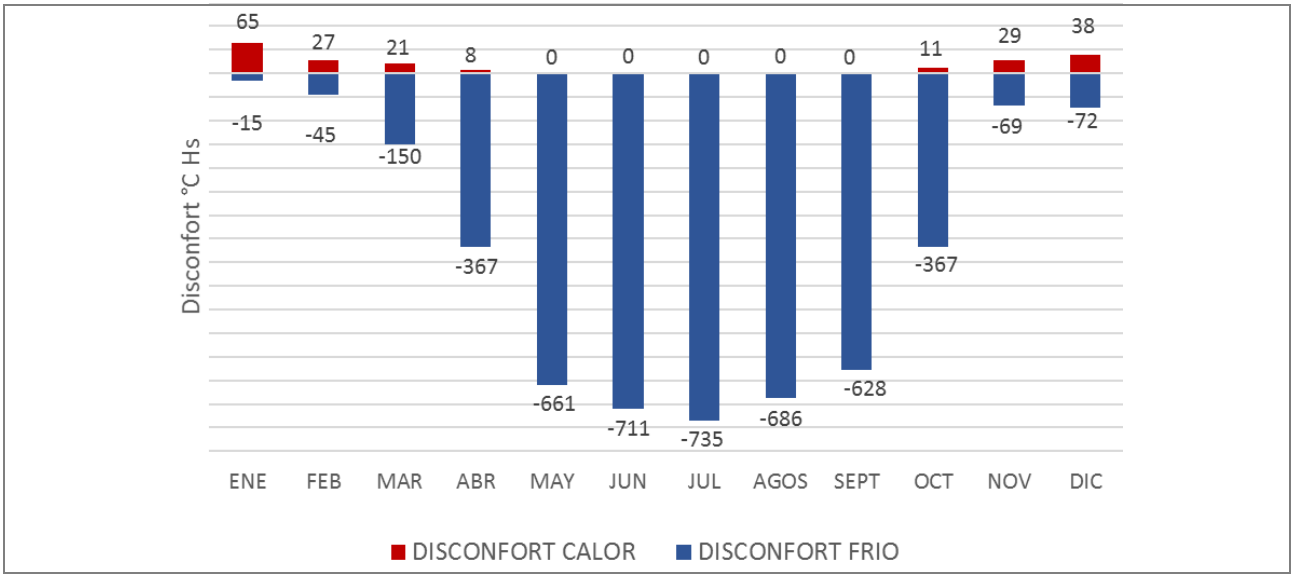




5,24 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| EPS-020 | MU | ALMA EPS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

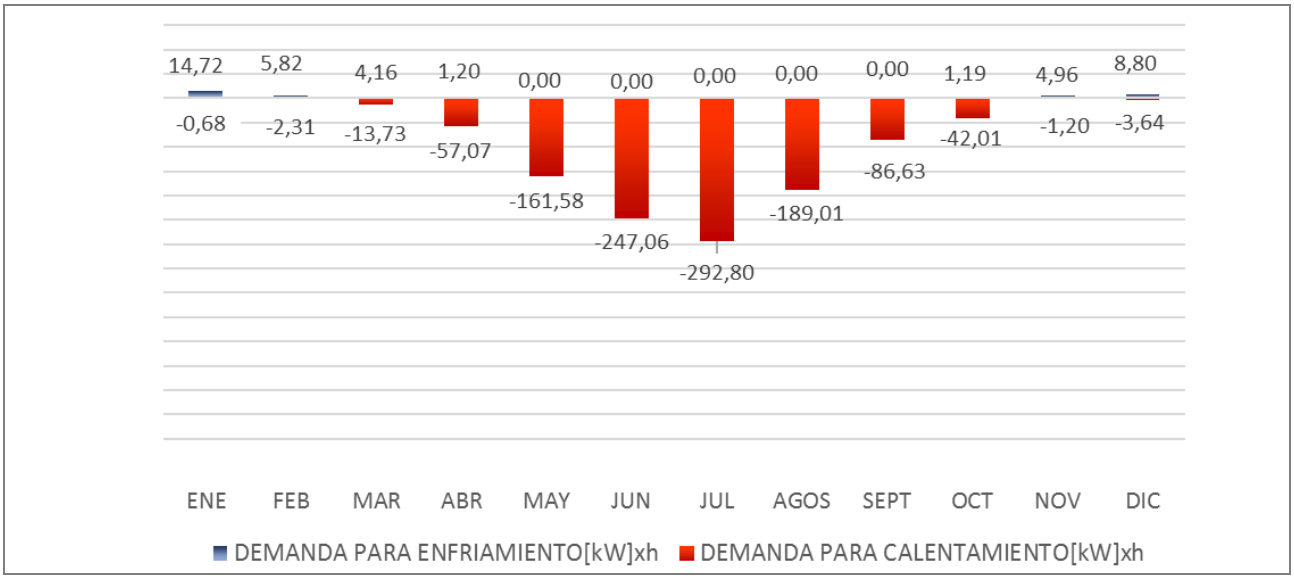
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **200** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.506** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.706** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

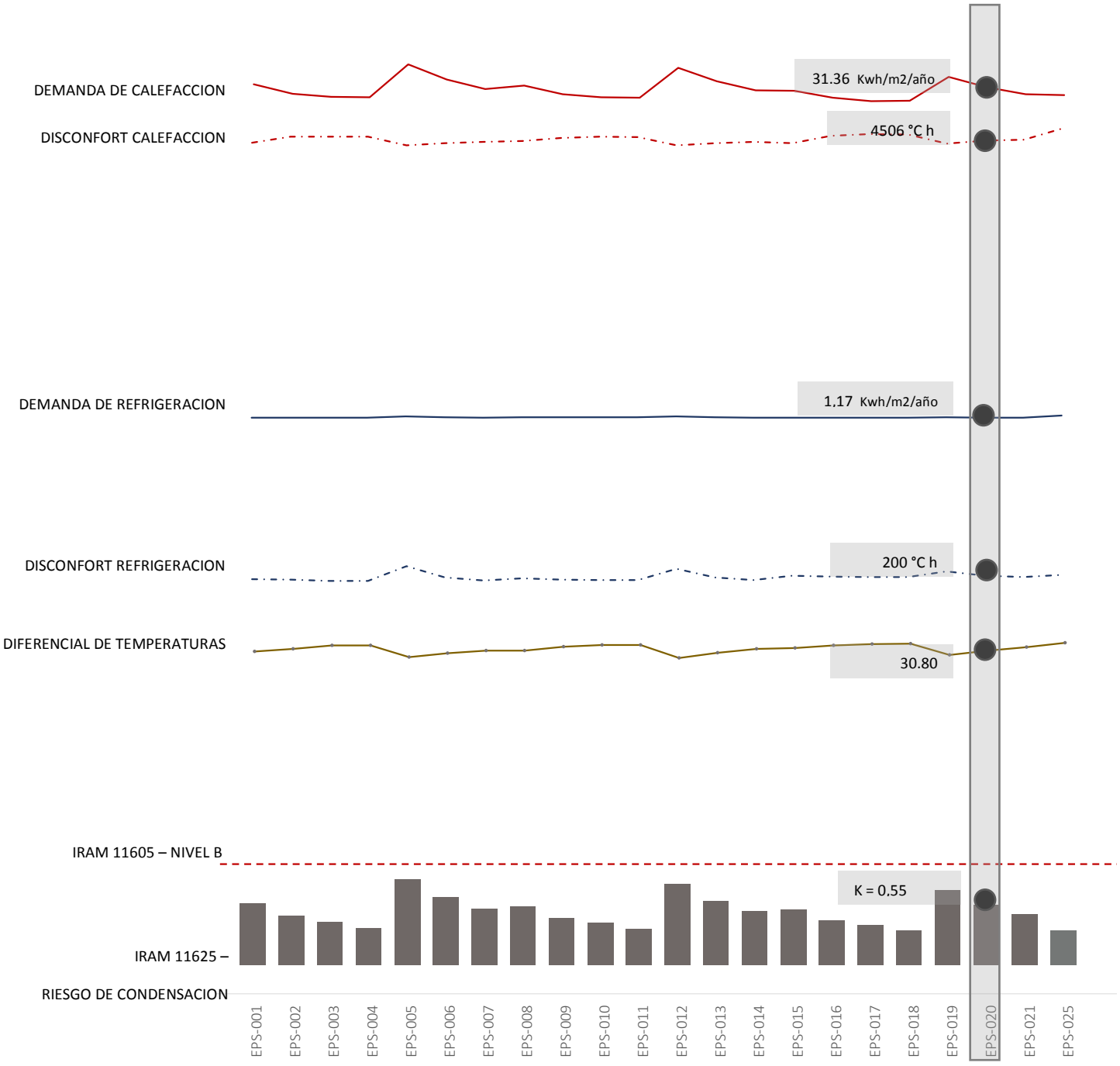



| | | CANT | | IPE | |
|---|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **40,84** | kWh | 1,17 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.097,71** | kWh | 31,36 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.138,55** | kWh | **32,53** | kWh/m2/año |

| EPS-020 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 135 | N° 136 | N° 103 | N° 051 | N° 062 | N° 091 |



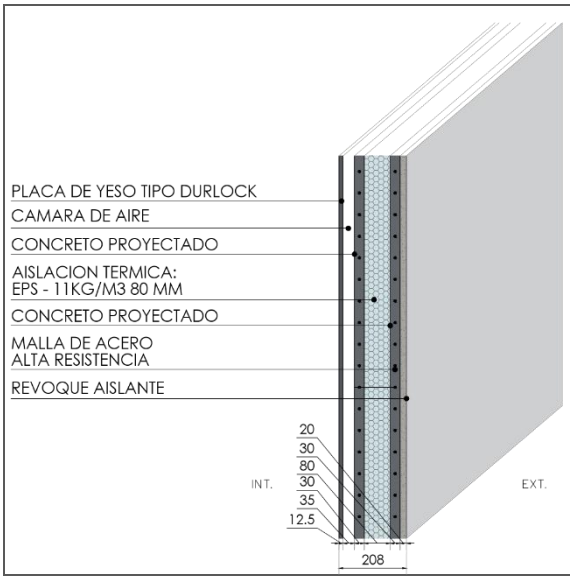

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,55 | 0% | 30,80 | 31,36 | 1,17 | 4506 | 200 |
| INC. FAMILIA | 111,42% | 0,00% | 99,50% | 101,34% | 96,66% | 99,77% | 105,06% |
| INC. MUNDIAL | 46,24% | 0,00% | 99,96% | 76,25% | 19,49% | 101,00% | 39,13% |

| EPS-021 | MU | ALMA EPS |
|---|---|---|

MURO CONCRETO PROYECTADO Y ALMA EPS- ESPESOR 14 CM (EMEDUE) PM80 +INTERIOR DE CAMARA DE AIRE 35MM Y PLACA DURLOCK + EXTERIOR CON REVOQUE AISLANTE.

## INDICE DE TRANSMITANCIA TERMICA "K"

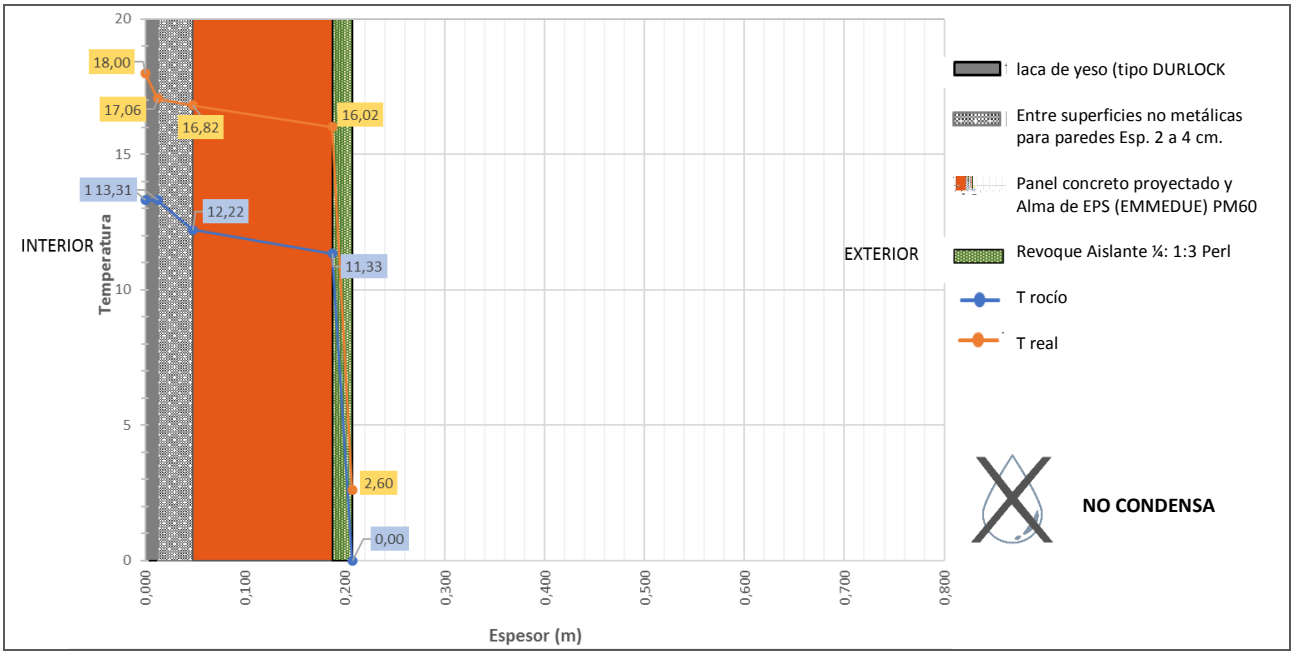
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,47 | 0,47 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



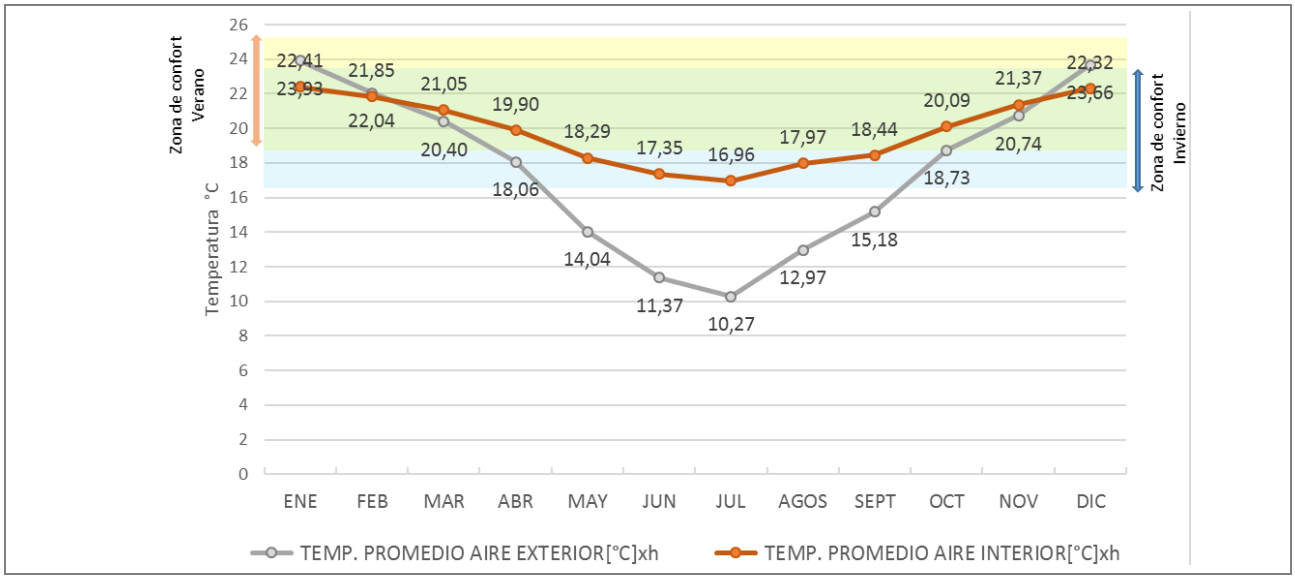

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 2,5 | Invierno 1,6 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,3** | **3,4** |
| | **Amortiguamiento:** | 0,204 | 0,287 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,3** | **3,3** |
| | **Amortiguamiento:** | 0,327 | 0,416 |

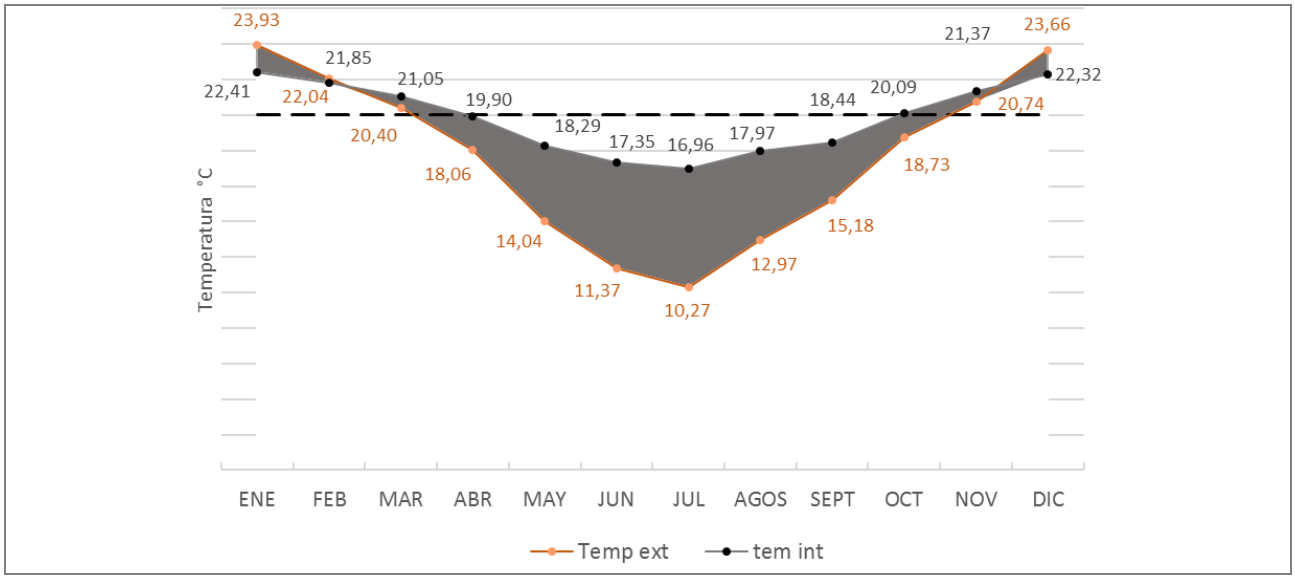
| EPS-021 | MU | ALMA EPS |
|---|---|---|

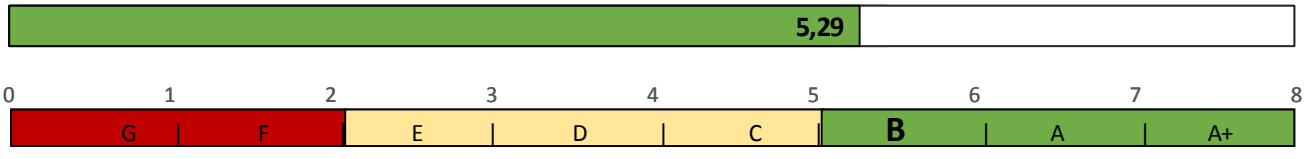
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,92** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,59** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



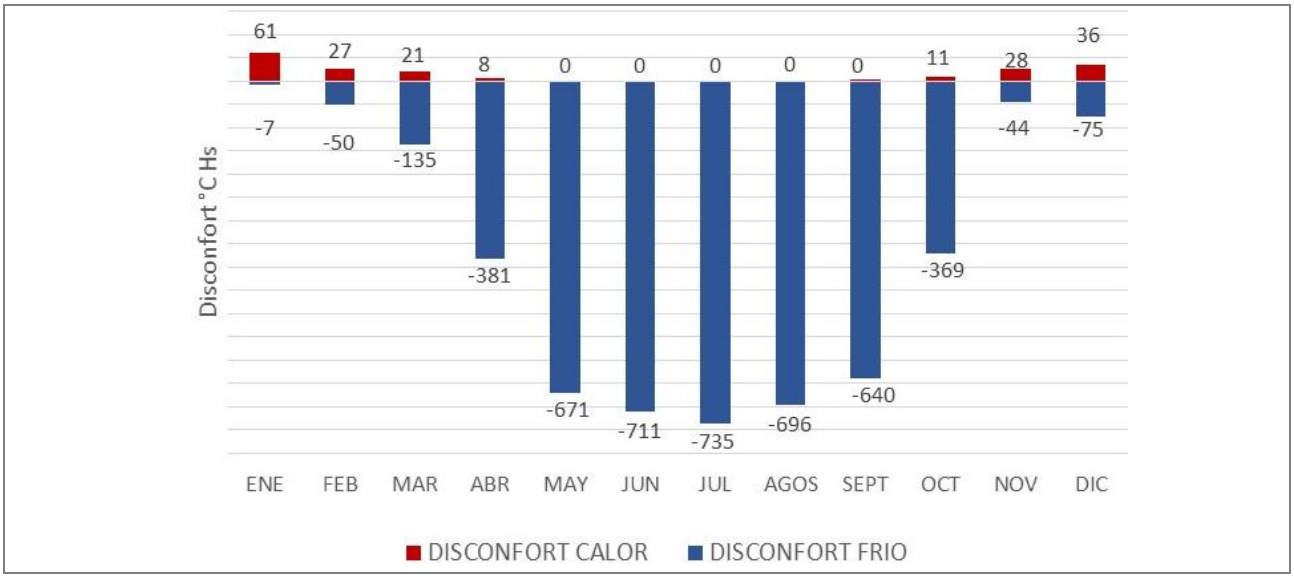




5,29 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| EPS-021 | MU | ALMA EPS |
|---|---|---|

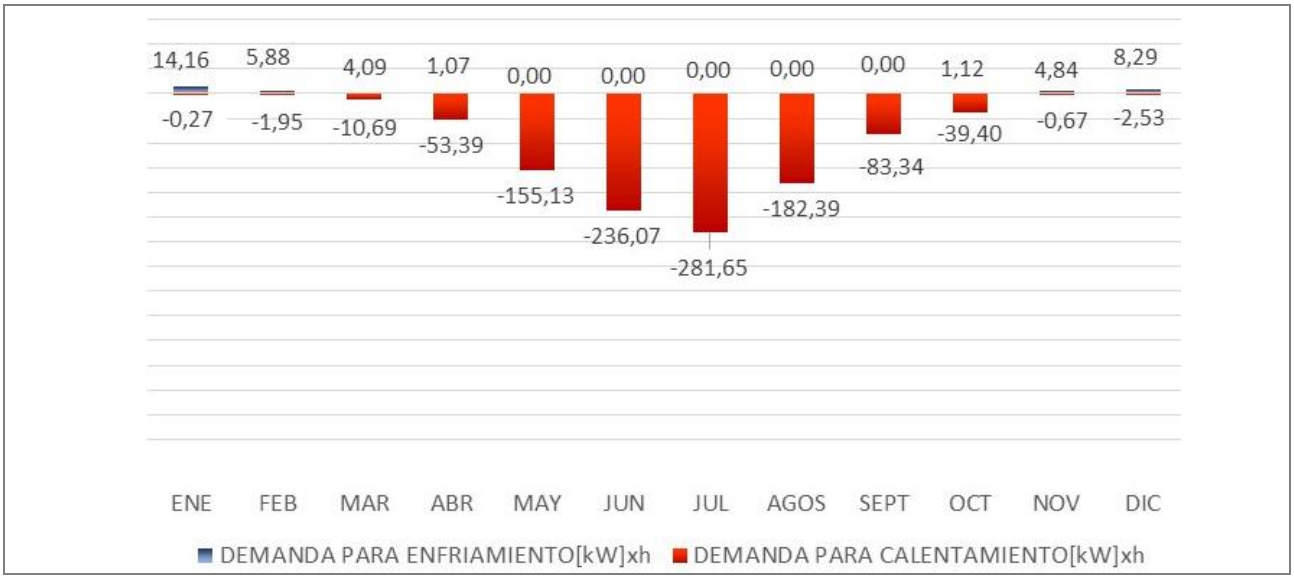
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **192** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.514** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.706** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

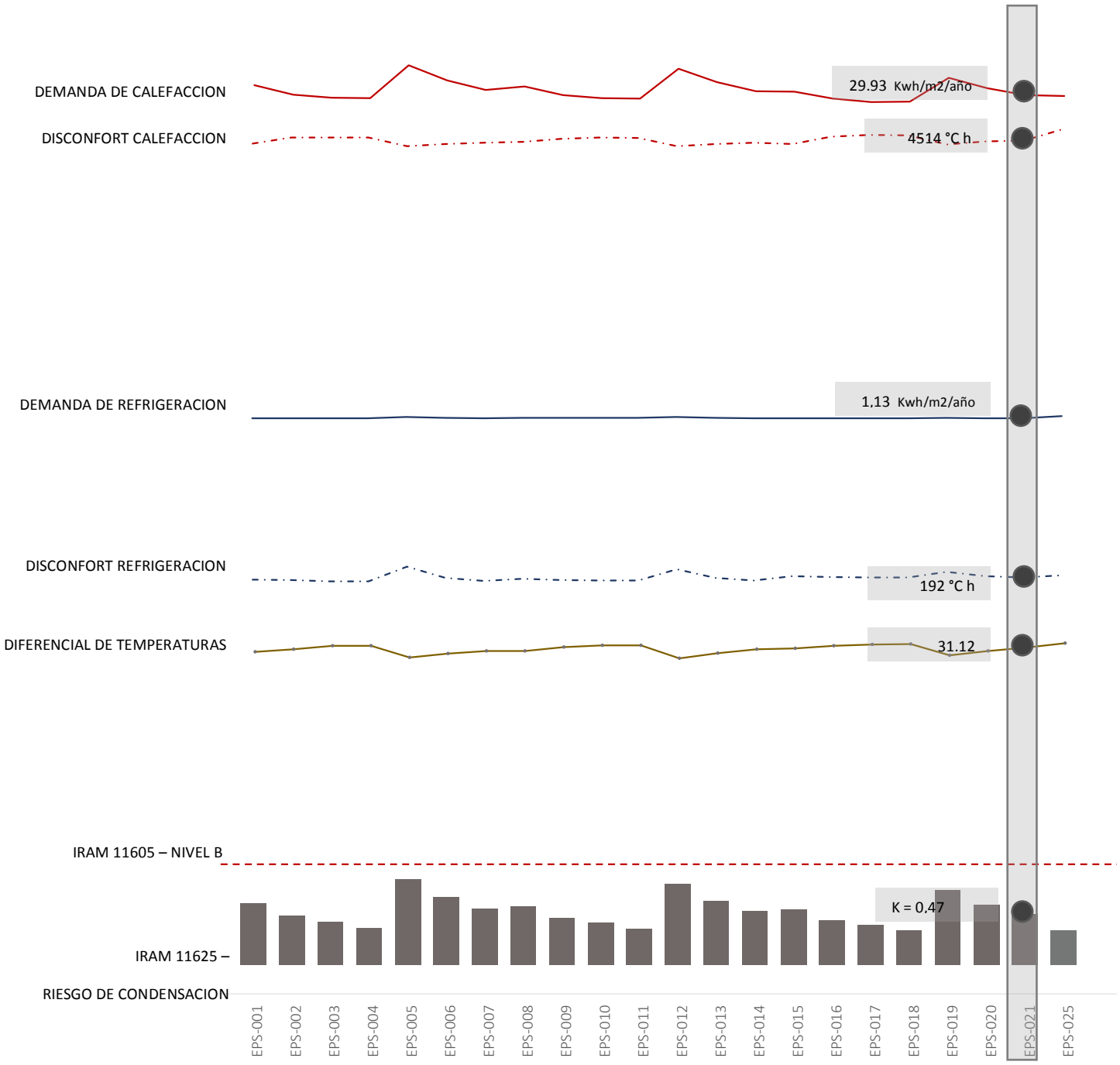



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **39,45** | kWh | 1,13 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.047,50** | kWh | 29,93 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.086,95** | kWh | **31,06** | kWh/m2/año |

| EPS-021 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 109 | N° 098 | N° 059 | N° 046 | N° 070 | N° 079 |



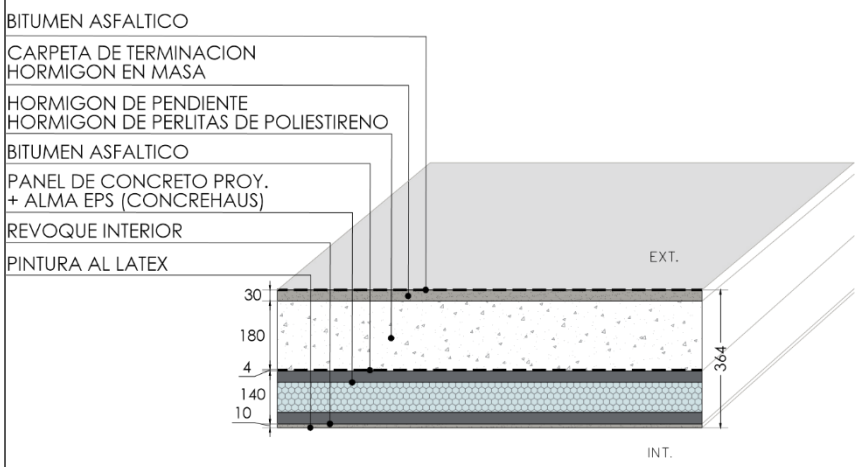

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,47 | 0% | 31,12 | 29,93 | 1,13 | 4514 | 192 |
| INC. FAMILIA | 95,21% | 0,00% | 100,54% | 96,72% | 93,35% | 99,95% | 100,86% |
| INC. MUNDIAL | 39,52% | 0,00% | 100,99% | 72,78% | 18,83% | 101,18% | 37,56% |

| EPS-022 | CU | ALMA EPS |
|---|---|---|

LOSA ALMA DE EPS Y HORMIGON PROYECTADO. (CONCREHAUS) PM80 CON CUBIERTA TRADICIONAL Y TERMINACION MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

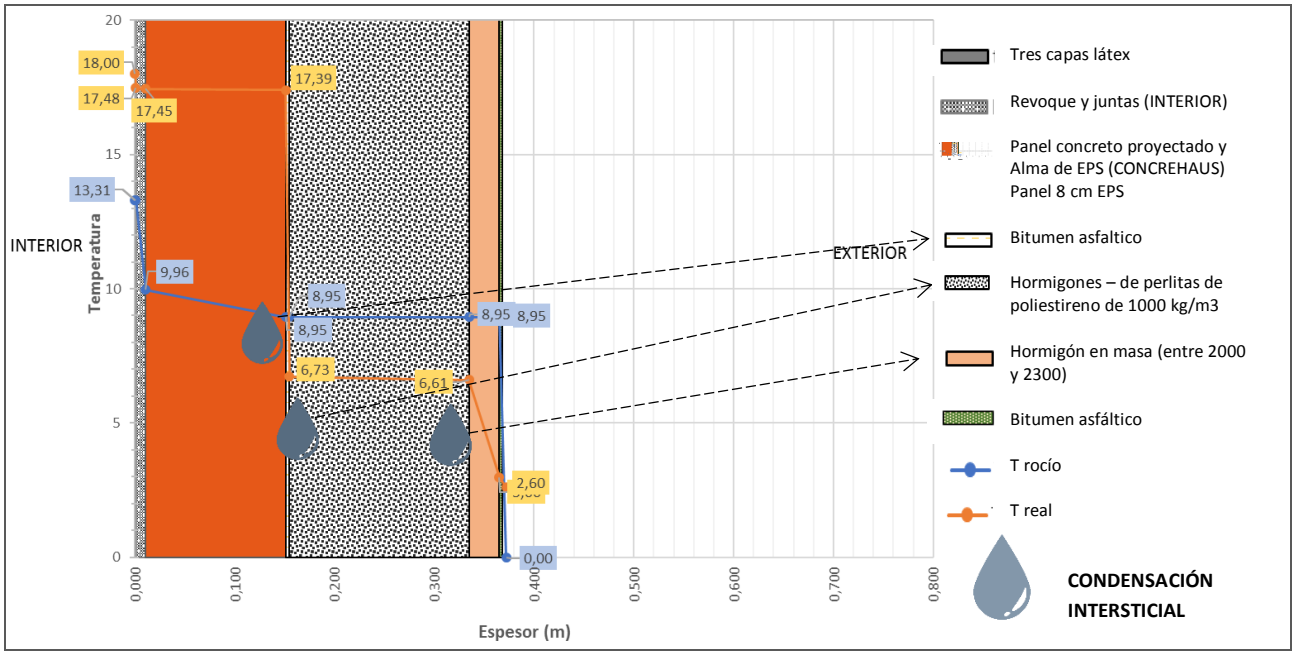
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,33 | 0,34 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



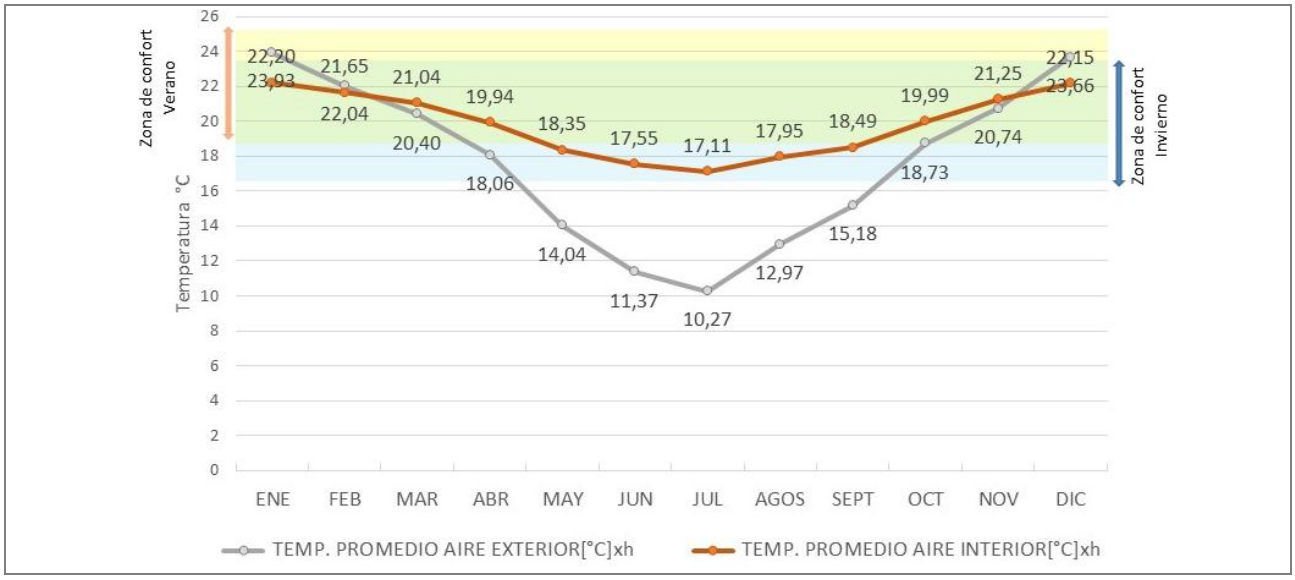

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 28,7 | 28,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **20,8** | **20,7** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **19,0** | **8,0** |
| | **Amortiguamiento:** | 0,007 | 0,124 |

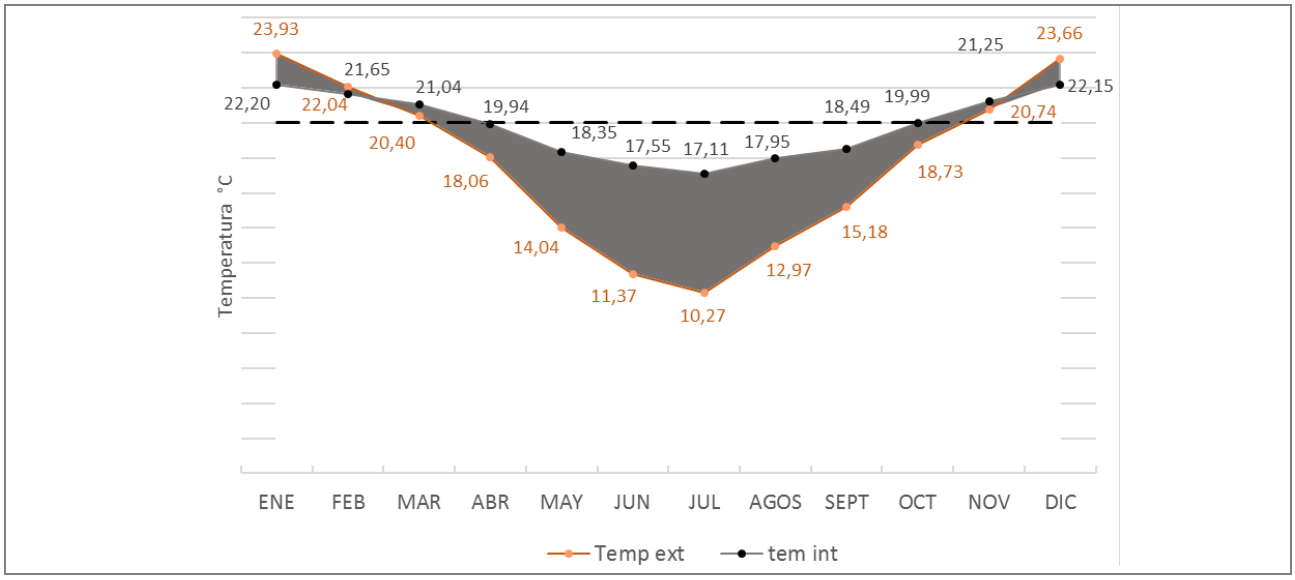
| EPS-022 | CU | ALMA EPS |
|---|---|---|

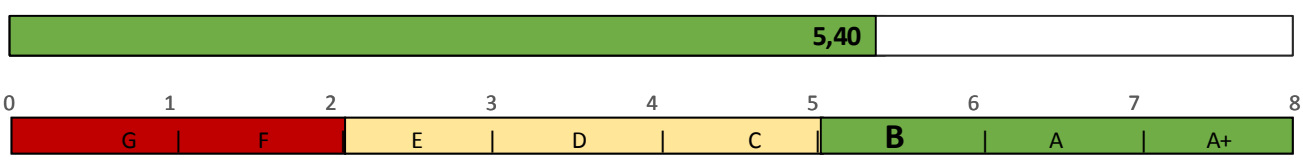
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,92** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **15,28** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



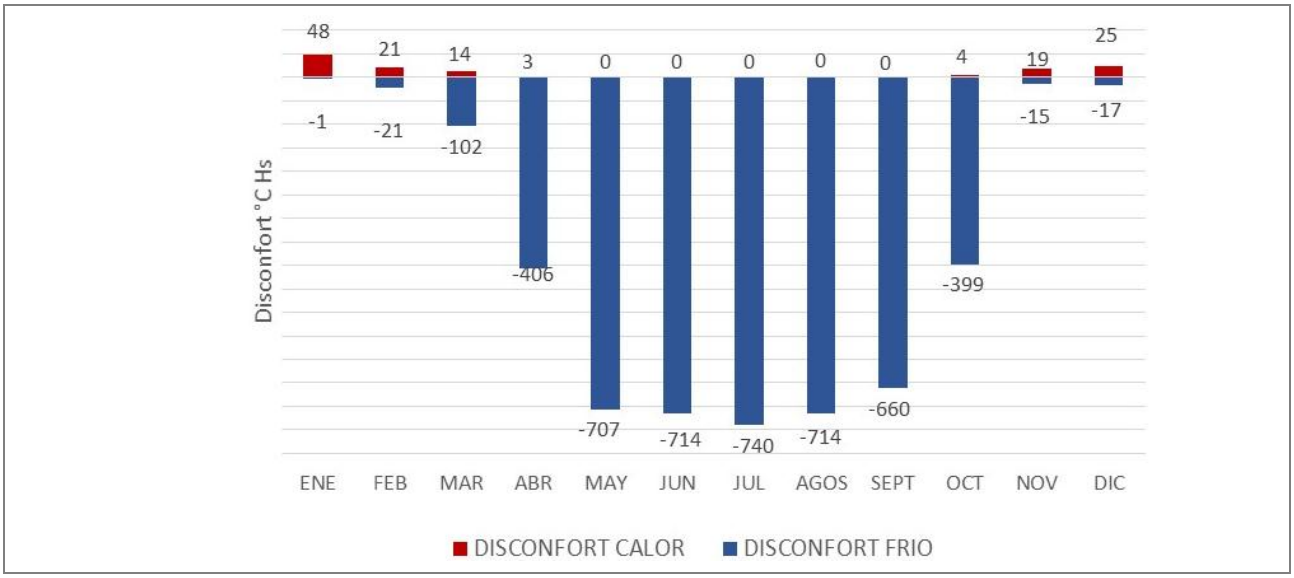




5,40 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,68

| EPS-022 | CU | ALMA EPS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

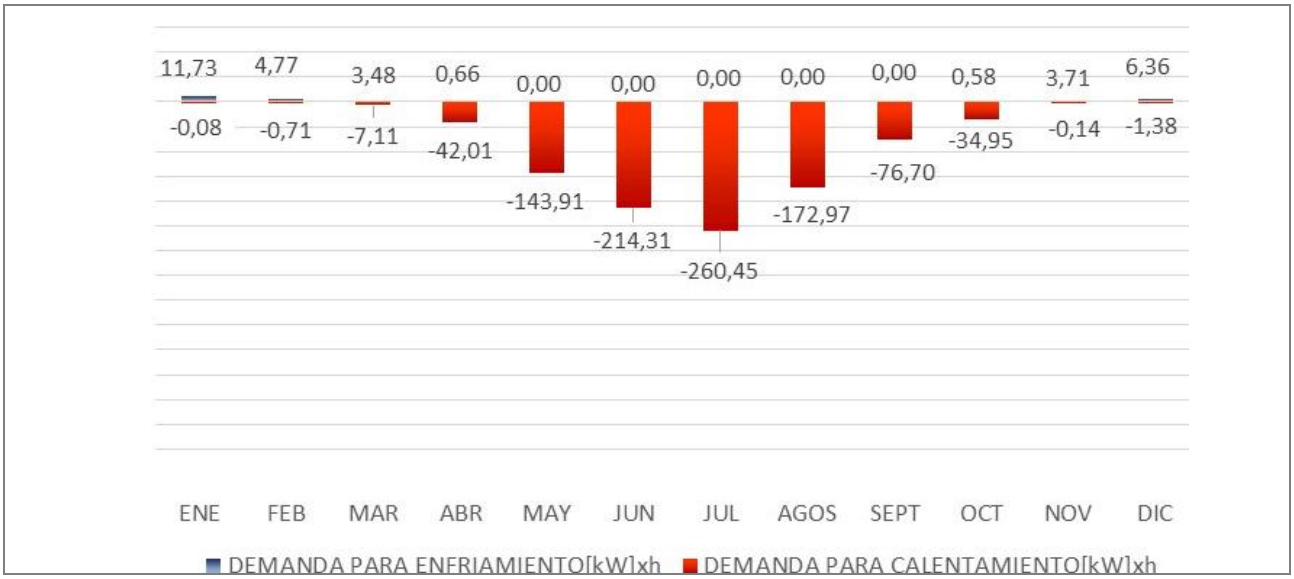
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **134** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.496** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.630** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

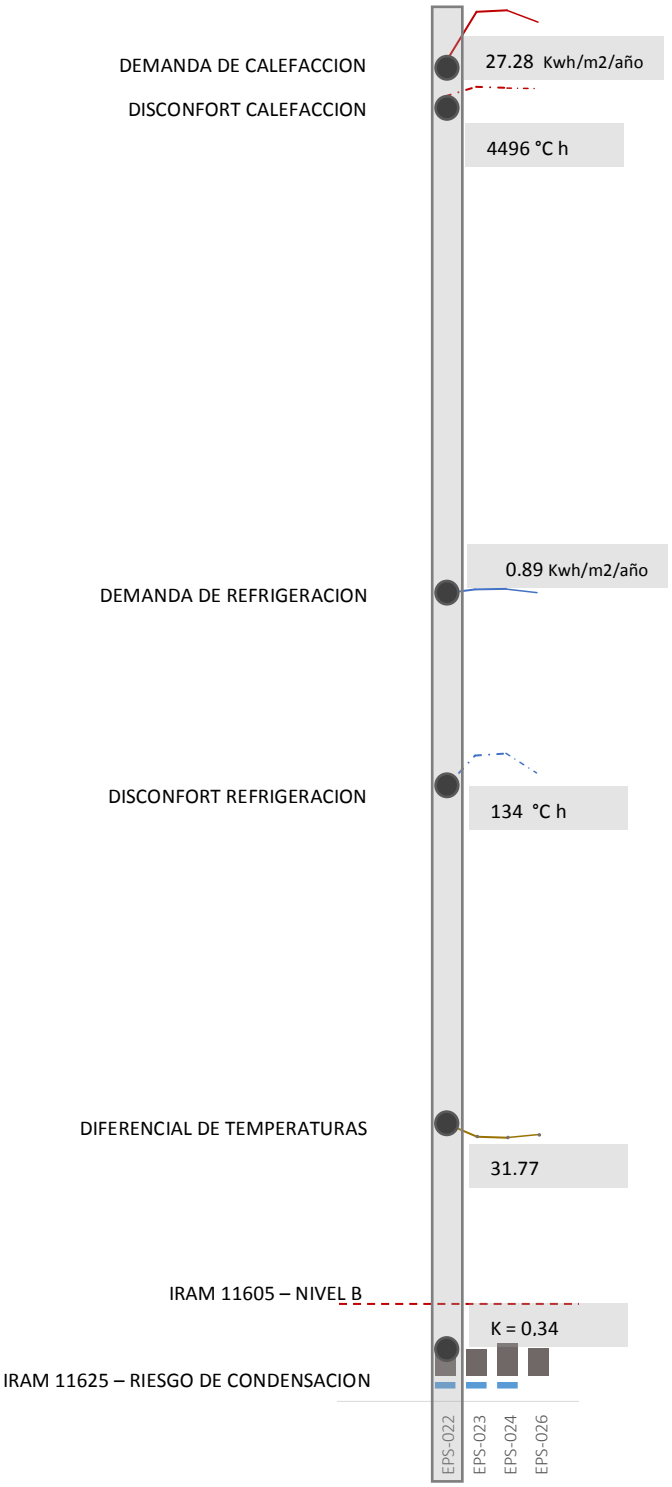
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **31,29** | kWh | 0,89 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **954,71** | kWh | 27,28 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **986,00** | kWh | **28,17** | kWh/m2/año |

| EPS-022 | CU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS



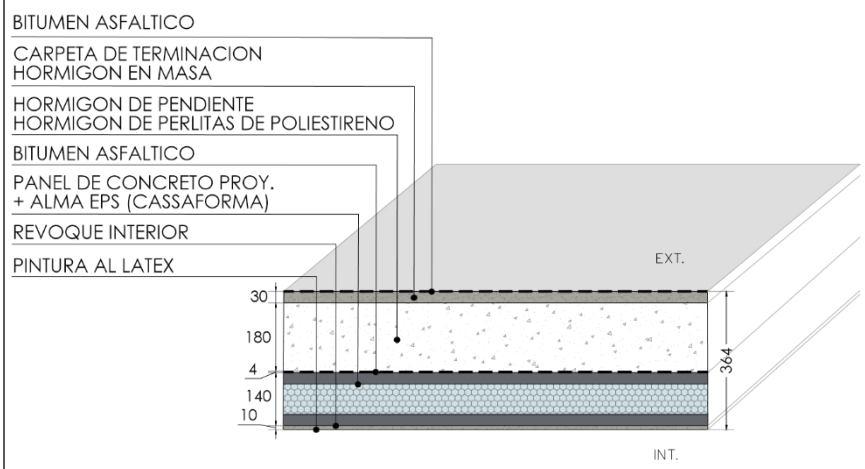

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,34 | 75% | 30,03 | 44,54 | 4,52 | 4598 | 629 |
| INDIVIDUAL | 0,34 | 100% | 31,77 | 27,28 | 0,89 | 4496 | 134 |
| INC. FAMILIA | 99,27% | 0% | 105,79% | 61,25% | 19,67% | 97,78% | 21,31% |
| INC. MUNDIAL | 41,98% | 208% | 106,97% | 61,33% | 21,64% | 98,58% | 21,21% |

| EPS-023 | CU | ALMA EPS |
|---|---|---|

LOSA ALMA DE EPS Y HORMIGON PROYECTADO. (CASSAFORMA) PM80 CON CUBIERTA TRADICIONAL Y TERMINACION MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

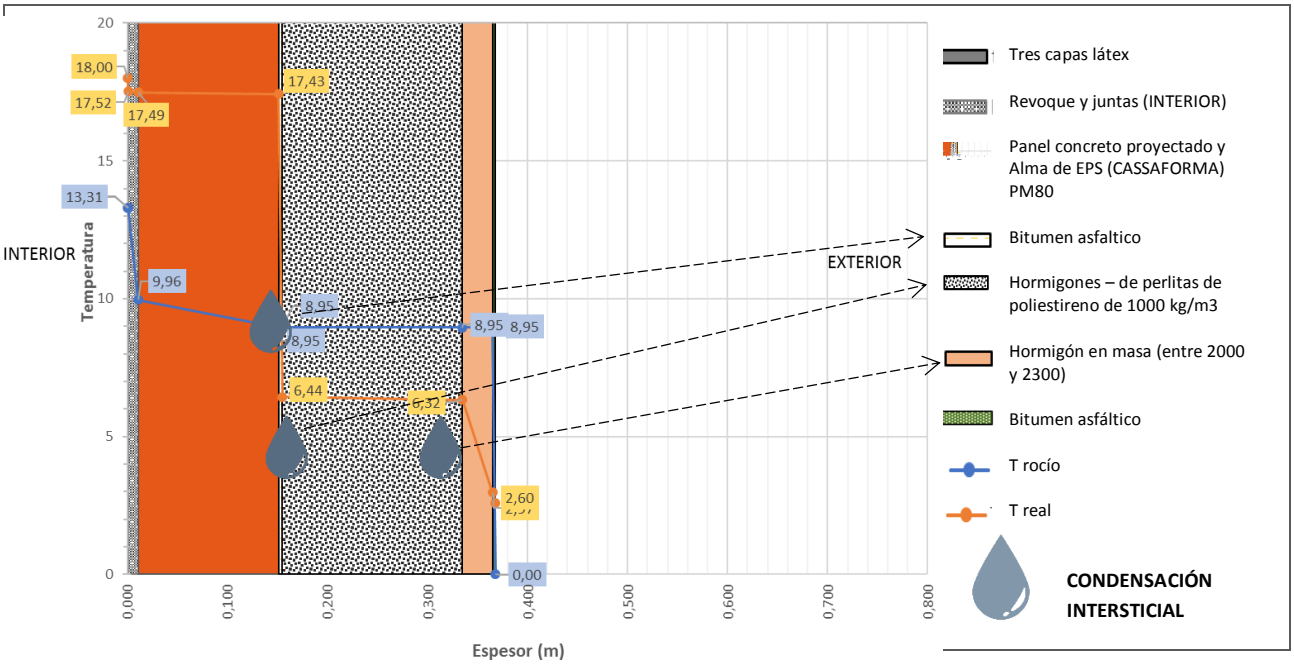
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,31 | 0,31 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



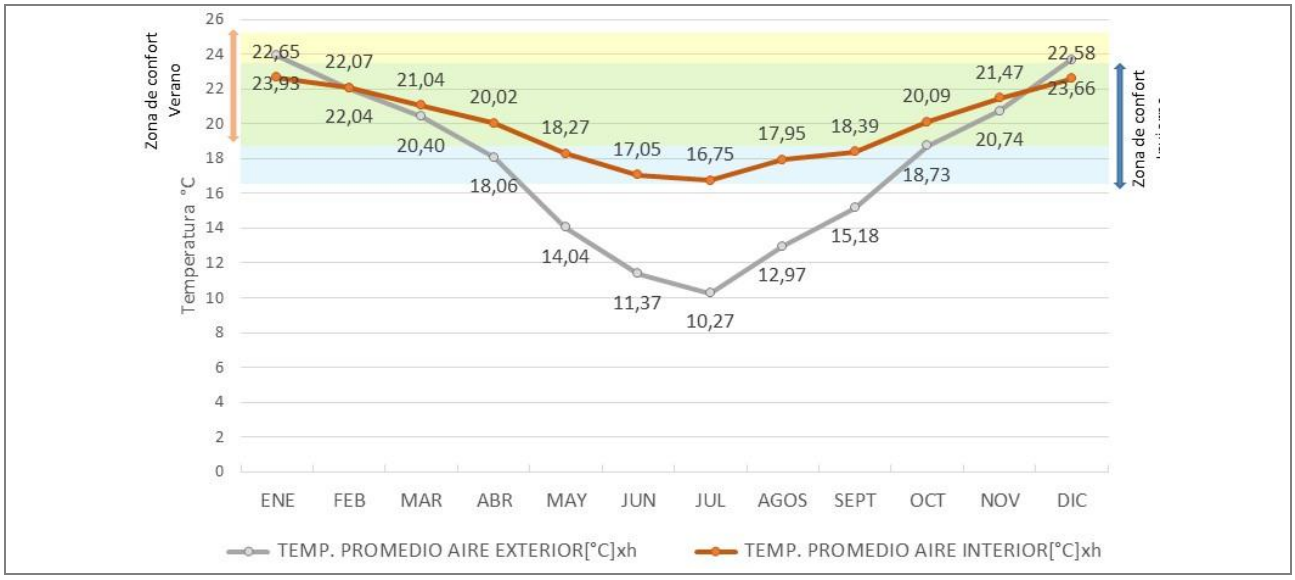

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 26,5 | Invierno 26,2 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **21,6** | **21,5** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **19,7** | **8,1** |
| | **Amortiguamiento:** | 0,006 | 0,121 |

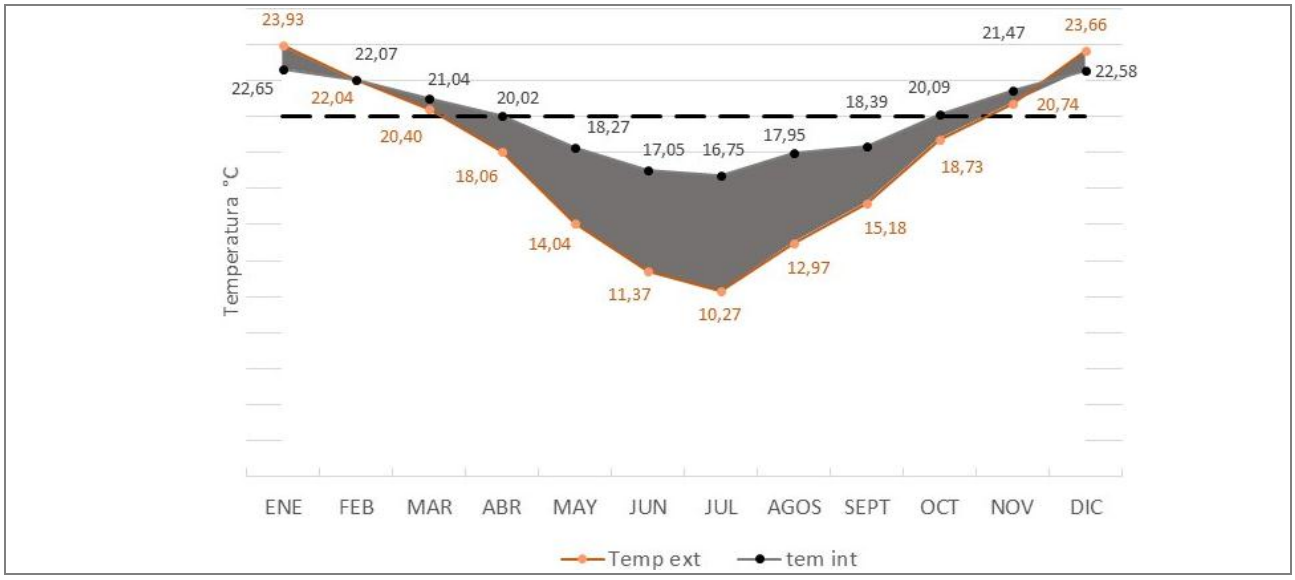
| EPS-023 | CU | ALMA EPS |
|---|---|---|

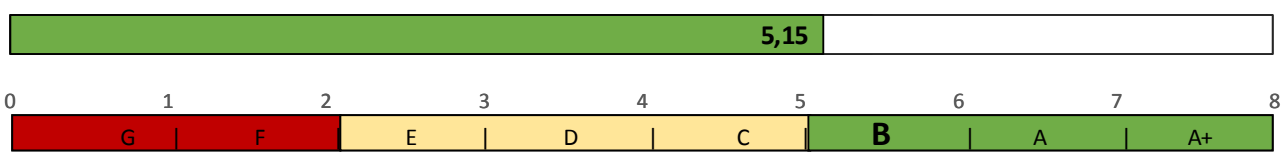
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,93** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,35** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



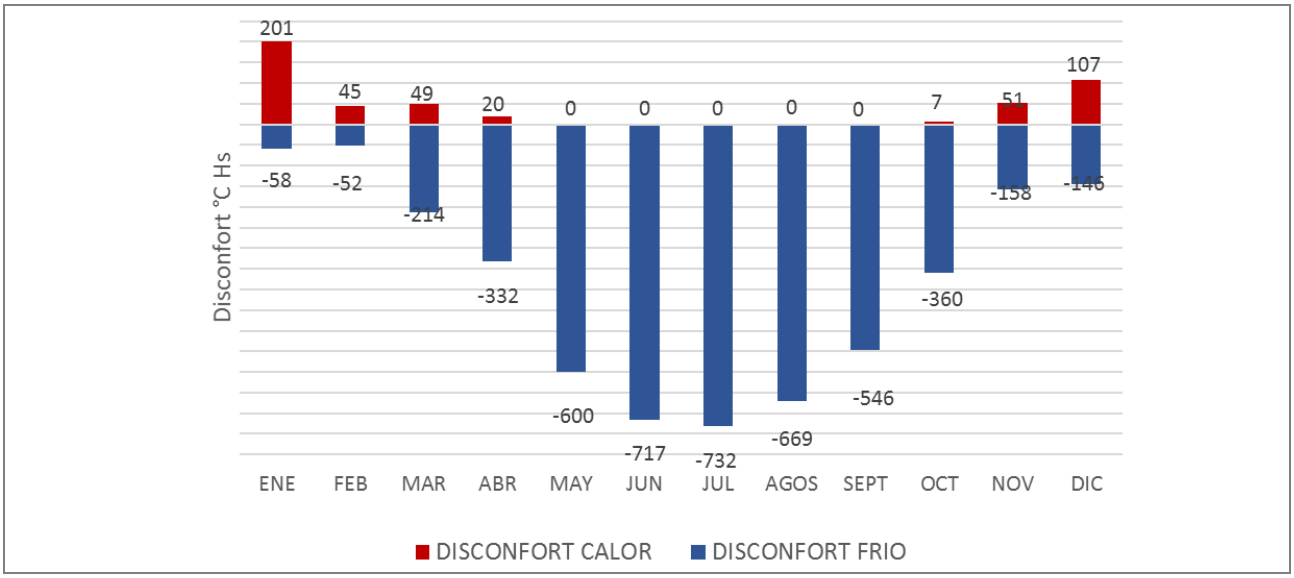




5,15 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| EPS-023 | CU | ALMA EPS |
|---|---|---|

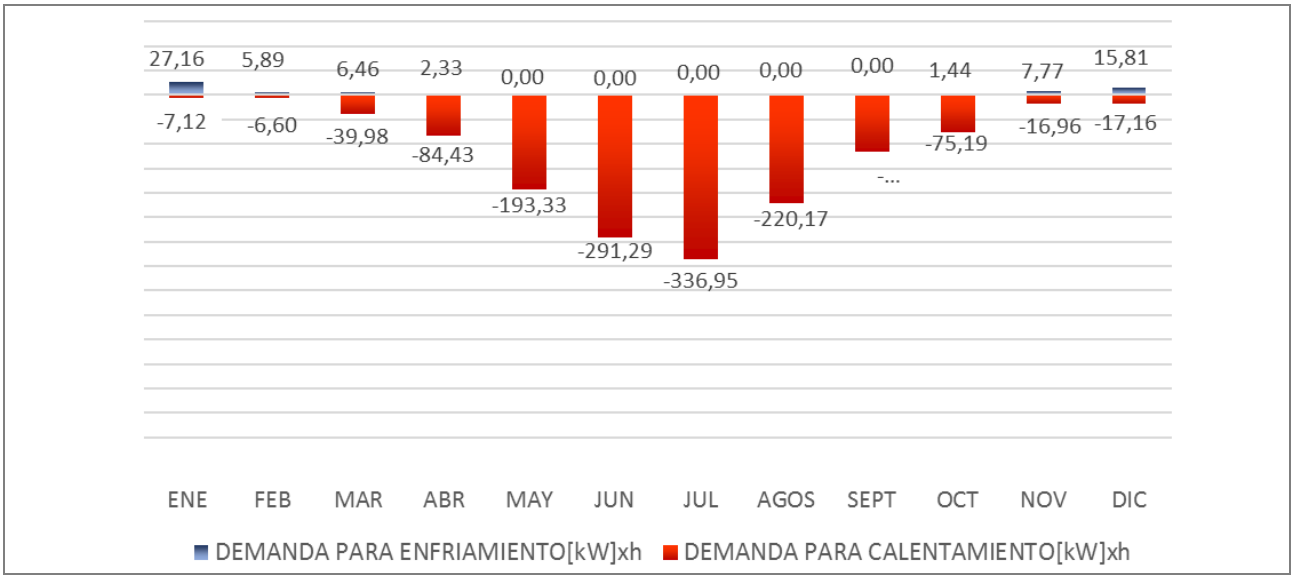
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **479** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.586** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.065** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

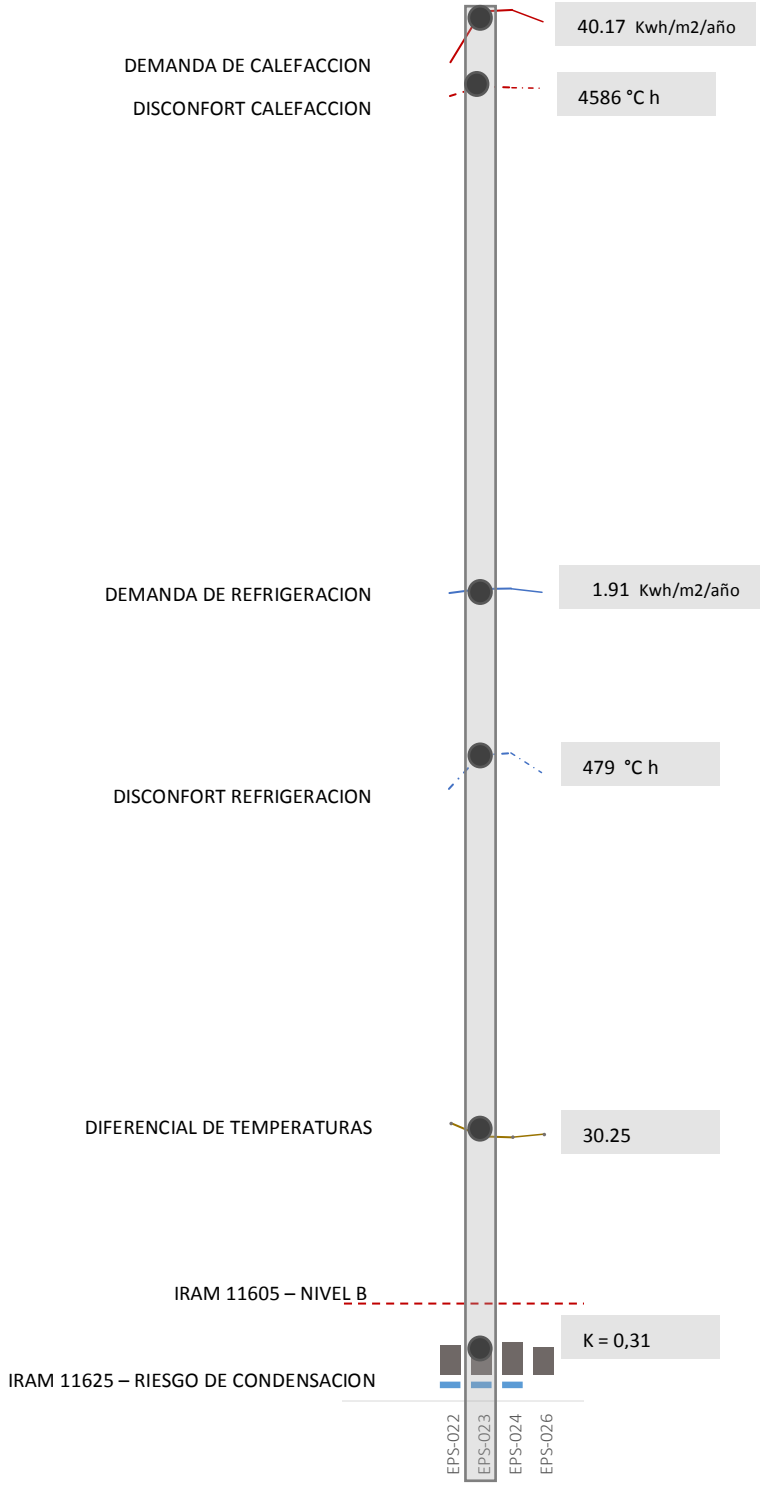



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **66,86** | kWh | 1,91 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.406,01** | kWh | 40,17 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.472,87** | kWh | **42,08** | kWh/m2/año |

| EPS-023 | CU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 016 | N° 016 | N° 020 | N° 035 | N° 077 | N° 035 |



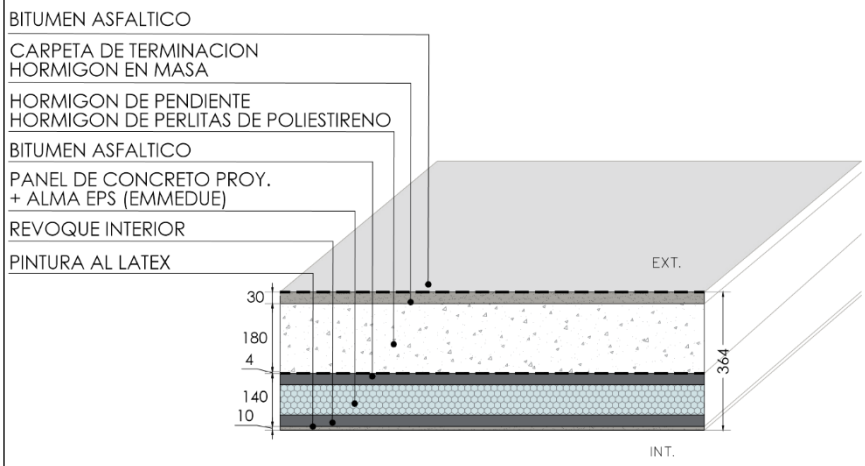

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,34 | 75% | 30,03 | 44,54 | 4,52 | 4598 | 629 |
| INDIVIDUAL | 0,31 | 100% | 30,25 | 40,17 | 1,91 | 4586 | 479 |
| INC. FAMILIA | 90,51% | 133% | 100,73% | 90,18% | 42,21% | 99,74% | 76,17% |
| INC. MUNDIAL | 38,27% | 208% | 101,85% | 90,31% | 46,44% | 100,55% | 75,83% |

| EPS-024 | CU | ALMA EPS |
|---|---|---|

LOSA ALMA DE EPS Y HORMIGON PROYECTADO. (EMEDUE) PM80 CON CUBIERTA TRADICIONAL Y TERMINACION MEMBRANA.

## INDICE DE TRANSMITANCIA TERMICA "K"

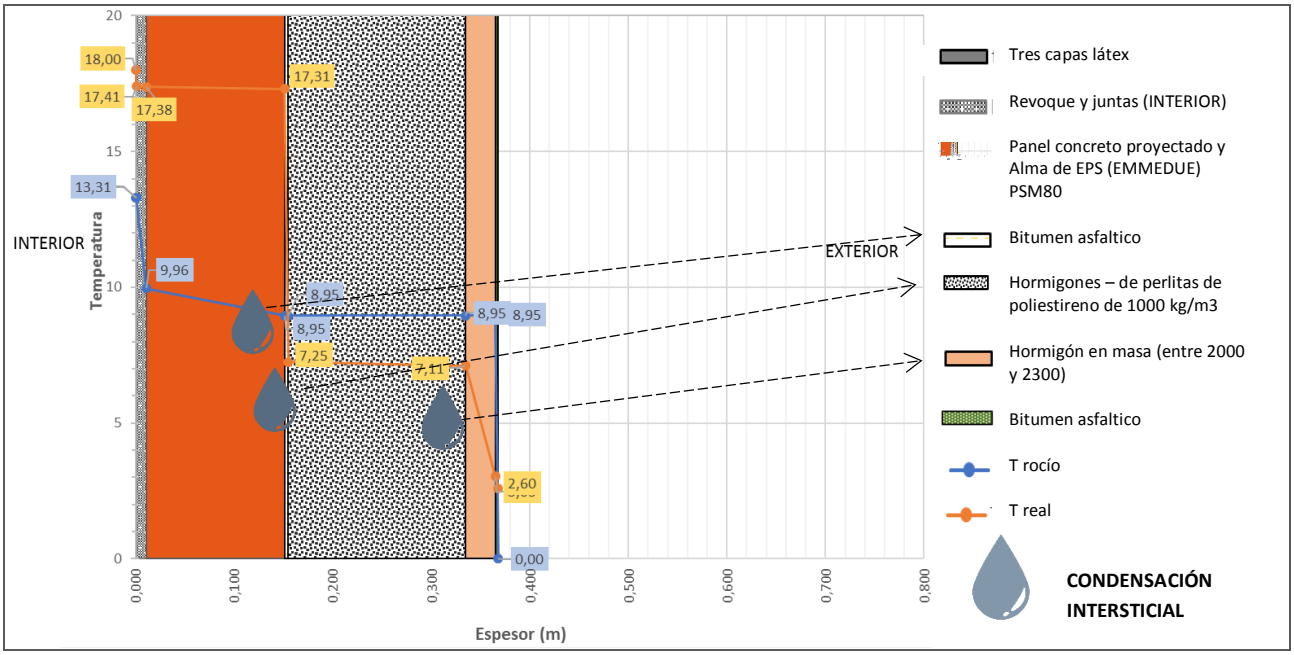
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,37 | 0,38 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



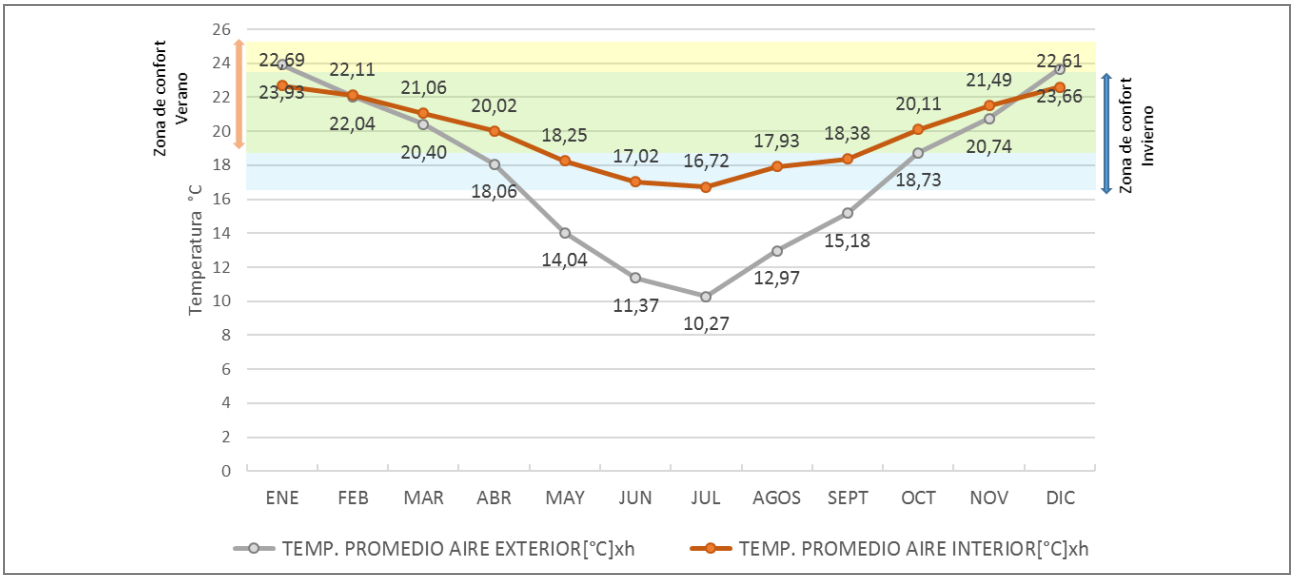

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 32,5 | Invierno 32,0 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **19,6** | **19,4** |
| | **Amortiguamiento:** | 0,001 | 0,001 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **17,8** | **7,8** |
| | **Amortiguamiento:** | 0,010 | 0,129 |

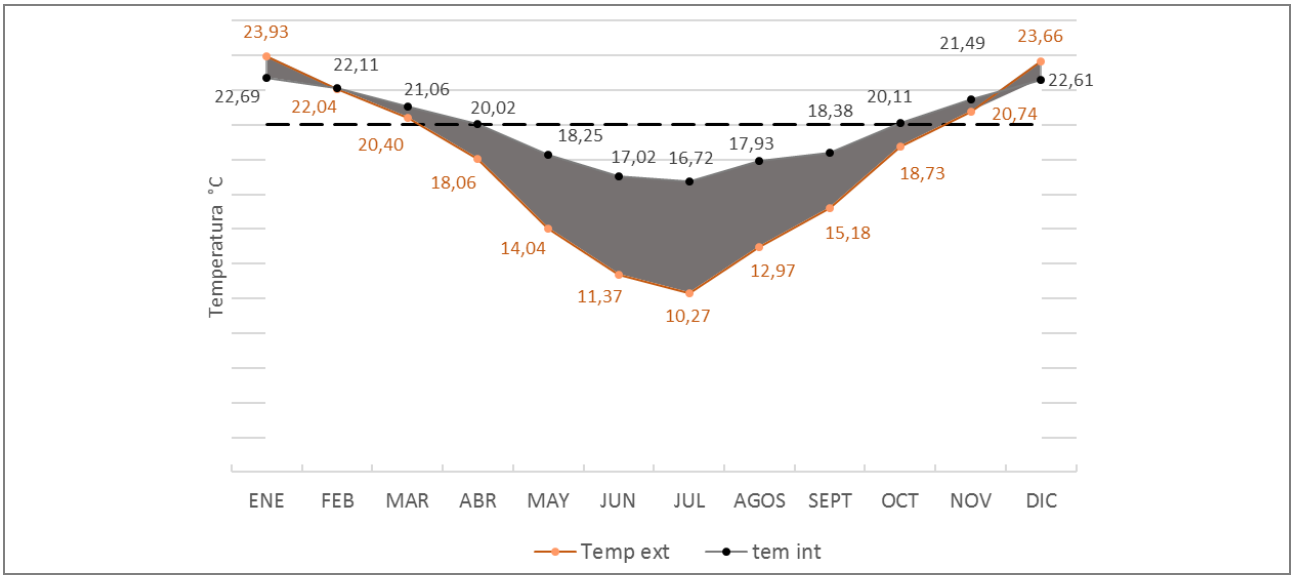
| EPS-024 | CU | ALMA EPS |
|---|---|---|

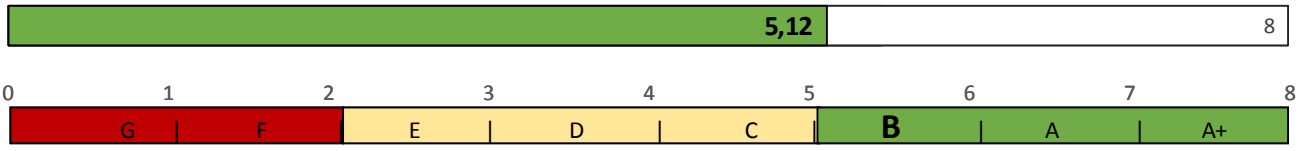
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,99** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,30** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



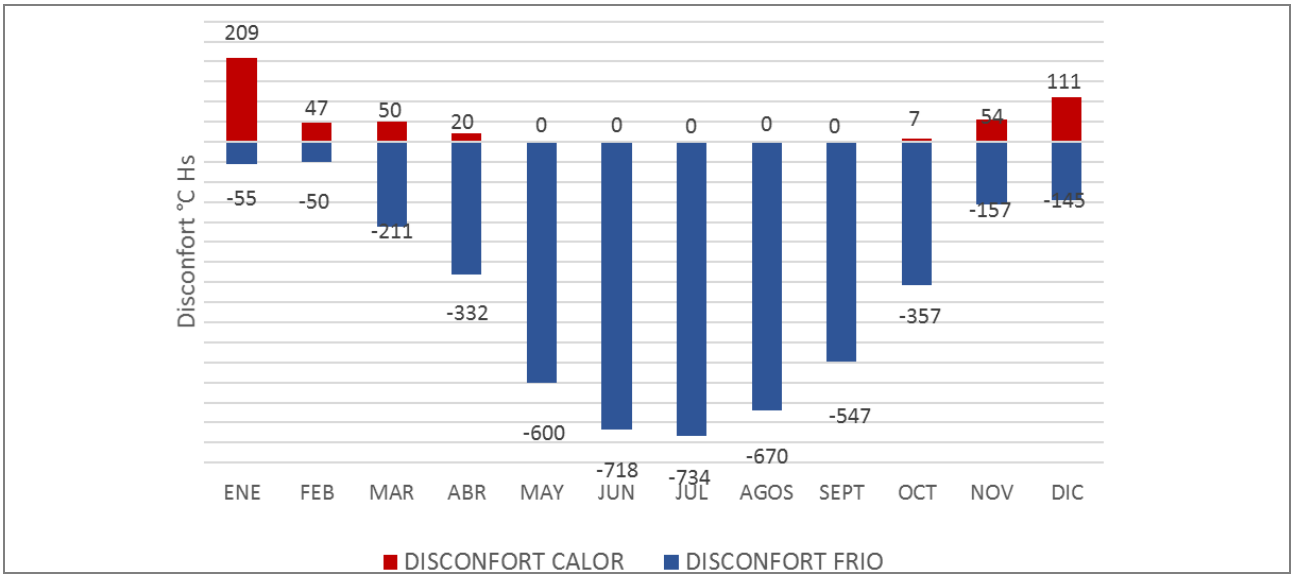




5,12 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| EPS-024 | CU | ALMA EPS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

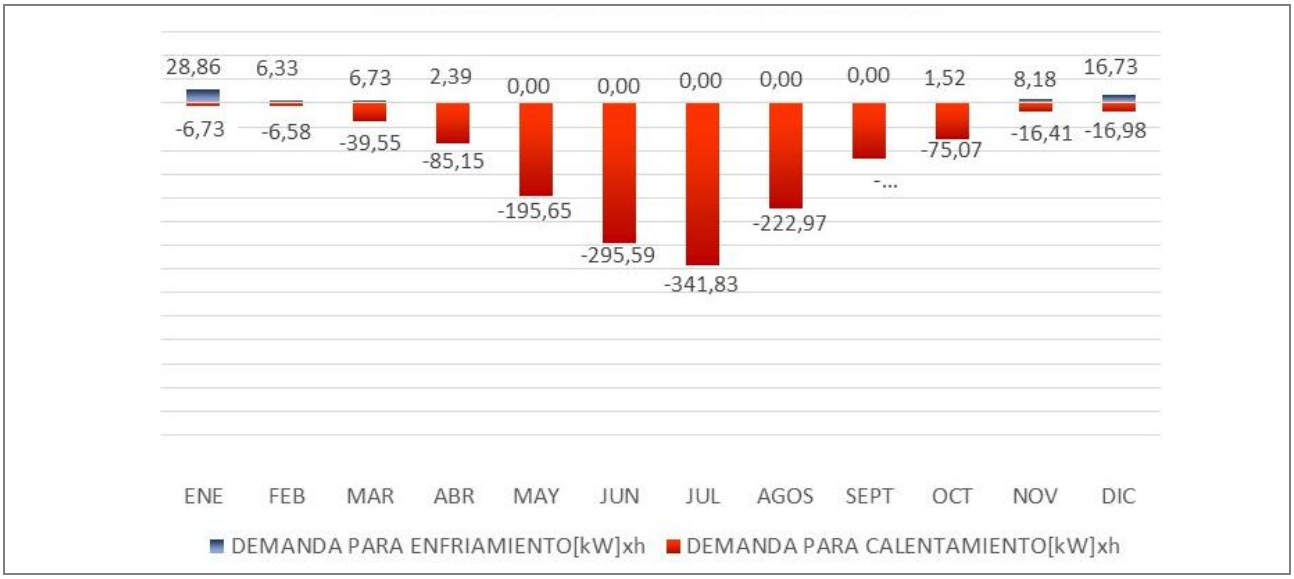
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **499** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.576** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.075** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

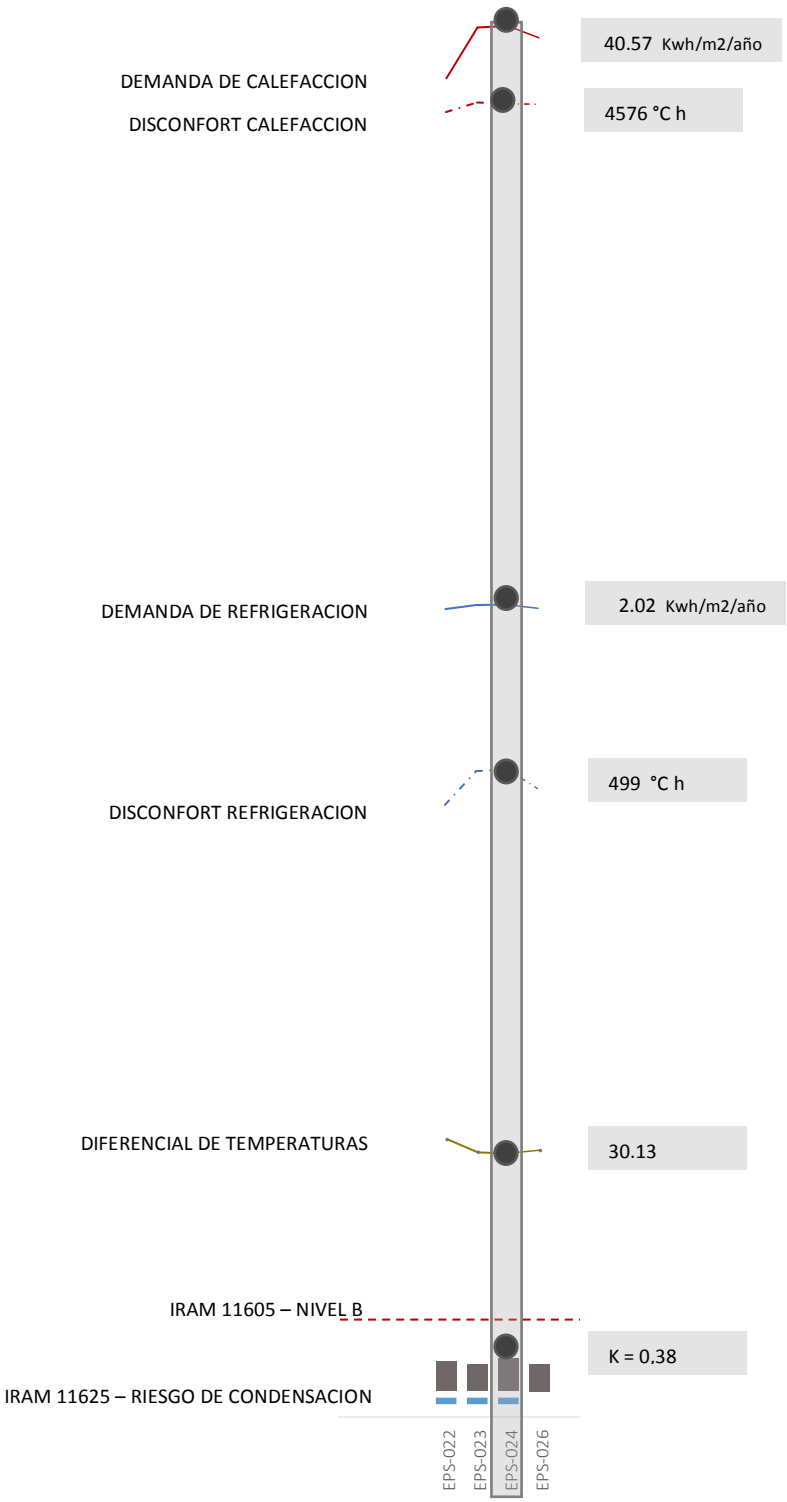



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **70,73** | kWh | 2,02 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.419,81** | kWh | 40,57 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.490,54** | kWh | **42,59** | kWh/m2/año |

| EPS-024 | CU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 039 | N° 033 | N° 031 | N° 044 | N° 068 | N° 046 |



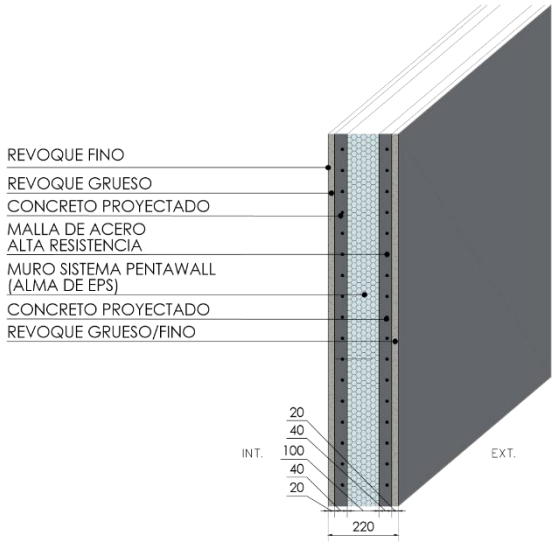

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,34 | 75% | 30,03 | 44,54 | 4,52 | 4598 | 629 |
| INDIVIDUAL | 0,38 | 100% | 30,13 | 40,57 | 2,02 | 4576 | 499 |
| INC. FAMILIA | 110,95% | 133% | 100,33% | 91,08% | 44,64% | 99,52% | 79,35% |
| INC. MUNDIAL | 46,91% | 208% | 101,45% | 91,21% | 49,11% | 100,33% | 79,00% |

| EPS-025 | MU | ALMA EPS |
|---|---|---|

MURO SISTEMA PENTAWALL- NUCLEO 10 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

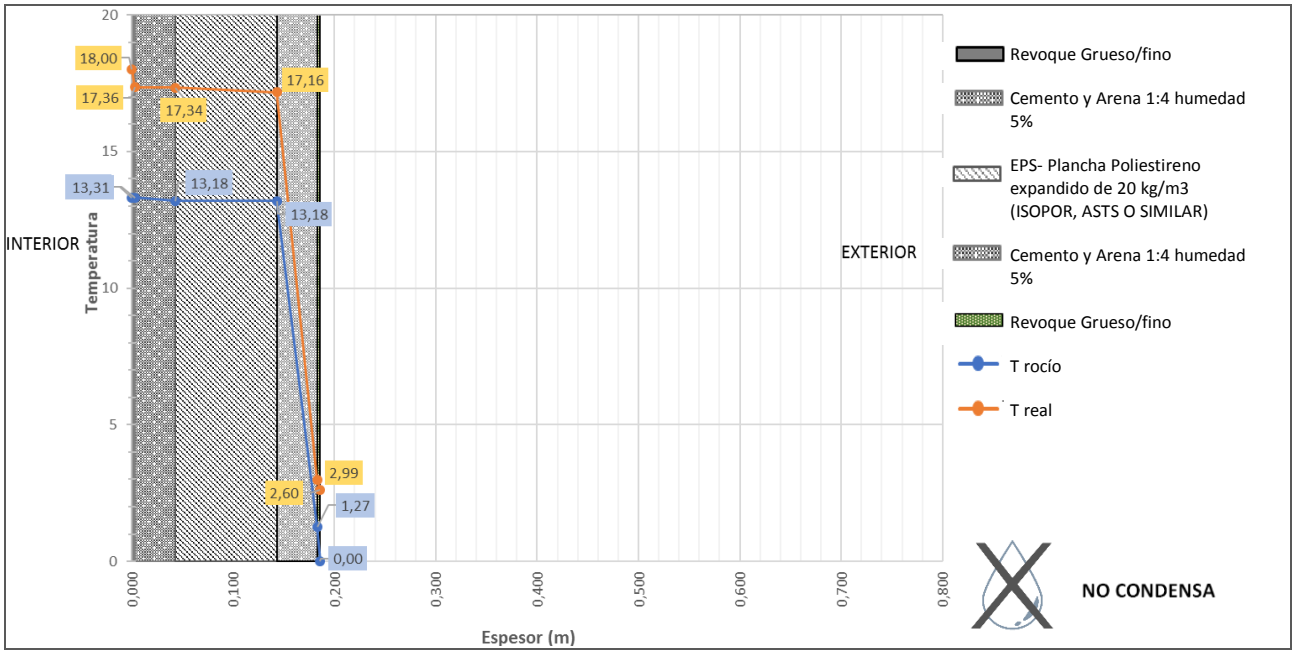
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,32 | 0,32 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



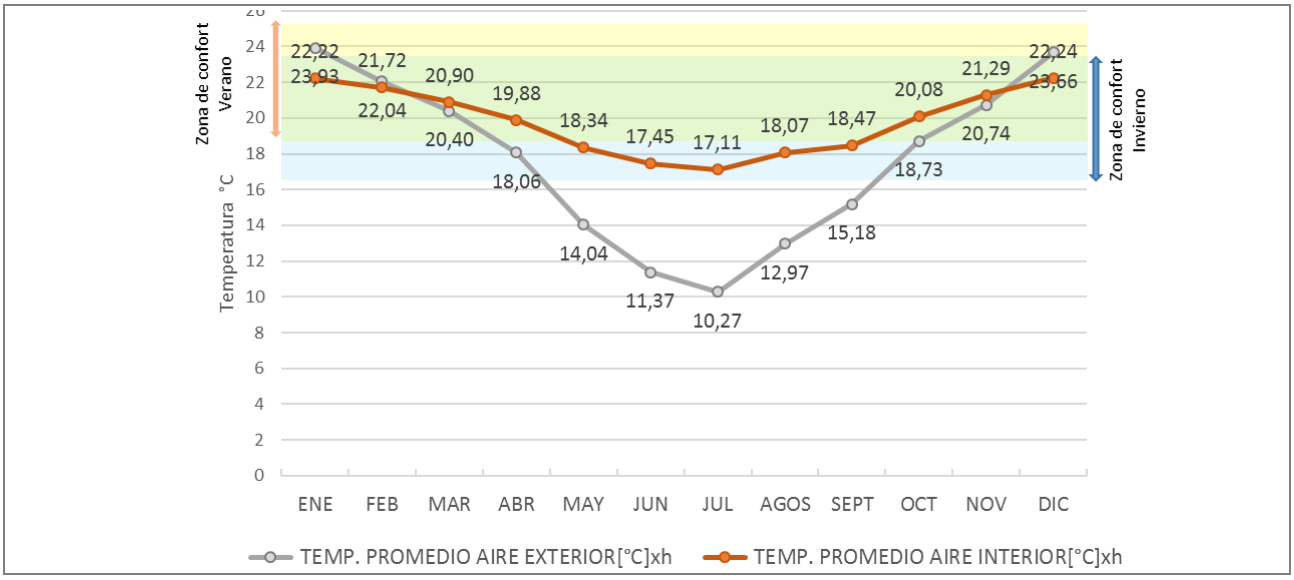

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 12,2 | 12,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,2** | **14,2** |
| | **Amortiguamiento:** | 0,005 | 0,005 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,2** | **9,9** |
| | **Amortiguamiento:** | 0,069 | 0,075 |

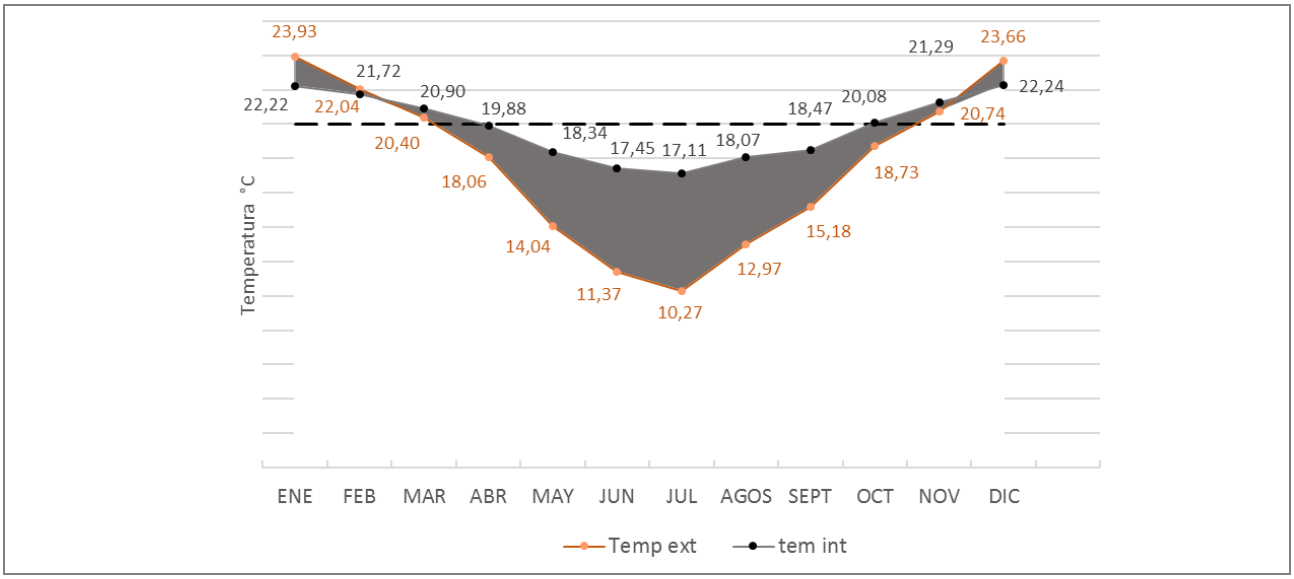
| EPS-025 | MU | ALMA EPS |
|---|---|---|

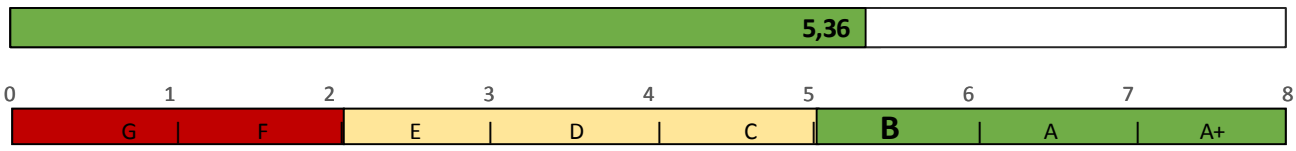
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,06** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,47** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



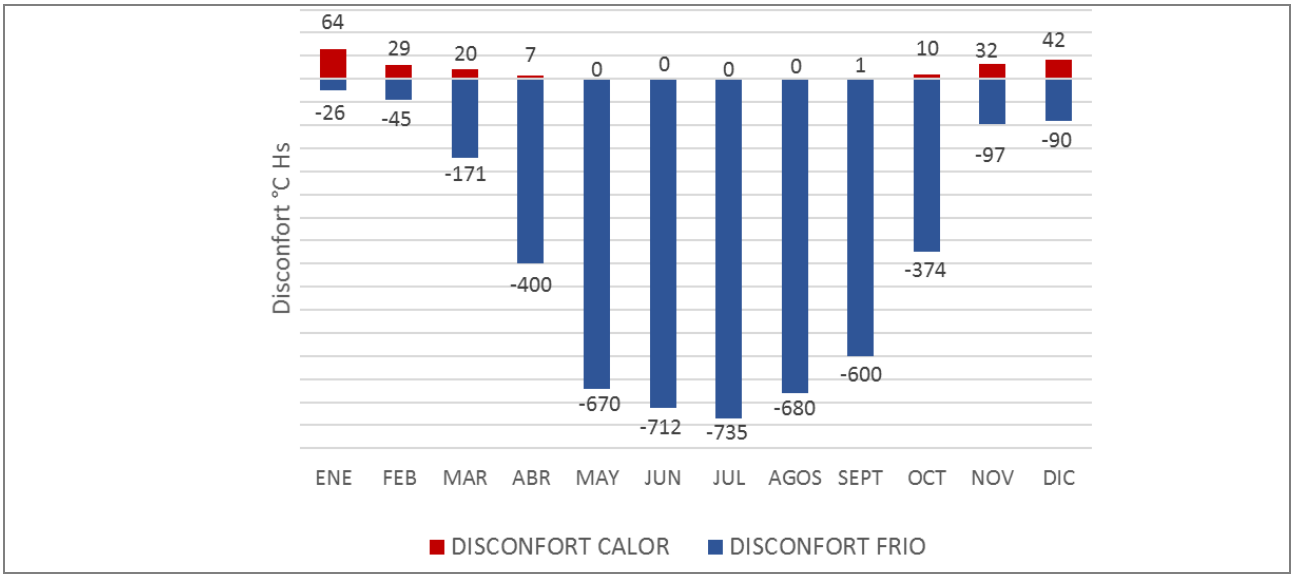




5,36 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| EPS-025 | MU | ALMA EPS |
|---|---|---|

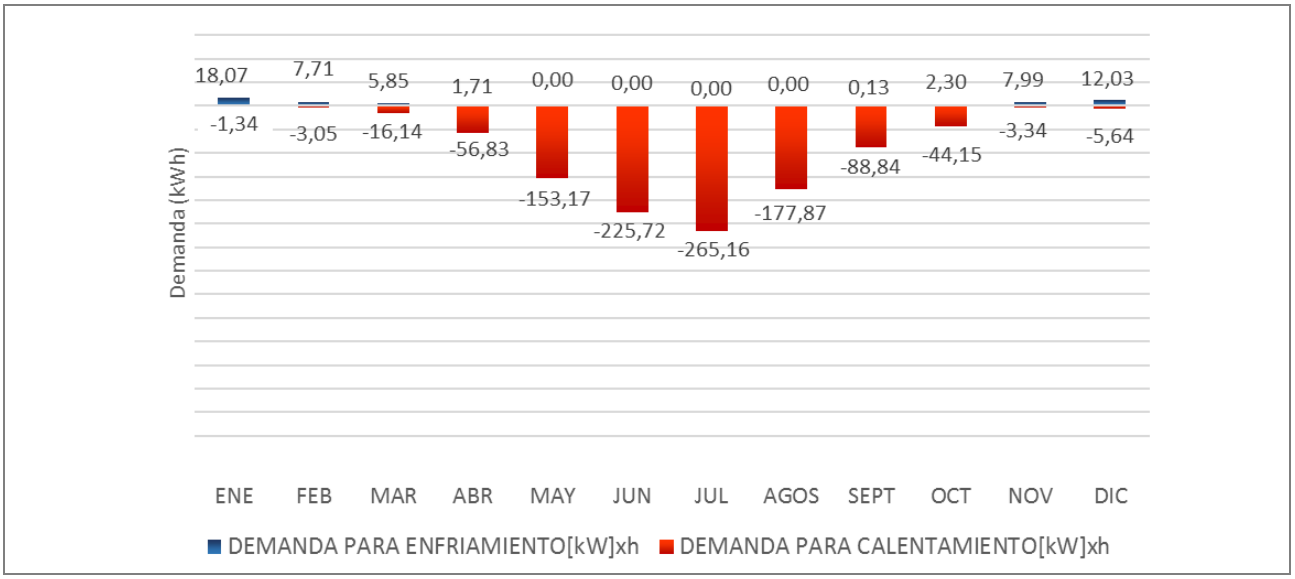
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **206** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.599** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.806** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

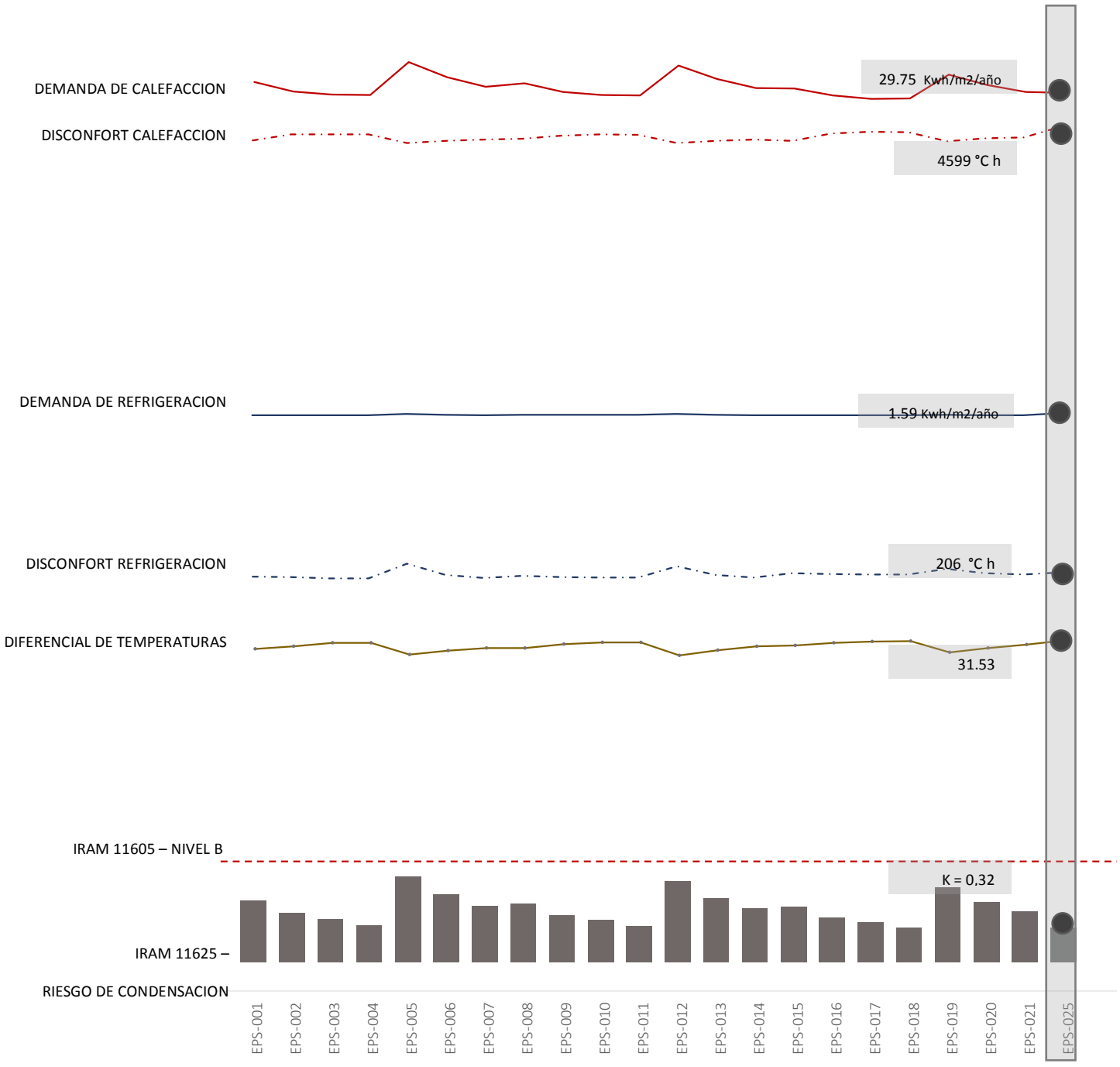



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **55,78** | kWh | 1,59 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.041,26** | kWh | 29,75 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.097,04** | kWh | **31,34** | kWh/m2/año |

| EPS-025 | MU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 026 | N° 040 | N° 056 | N° 118 | N° 156 | N° 102 |



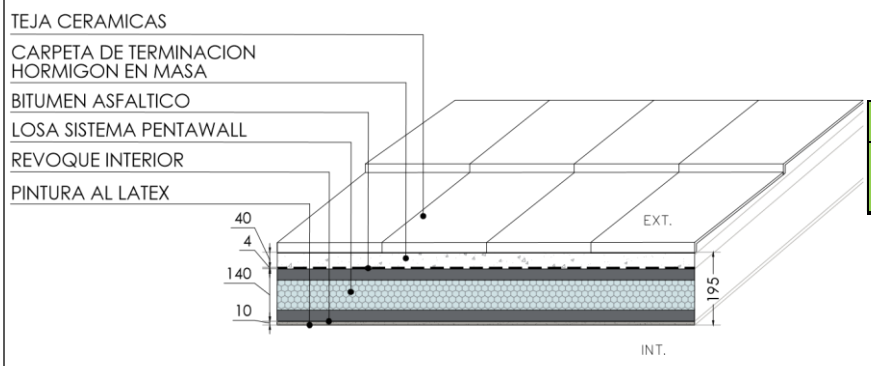

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,49 | 0% | 30,95 | 30,95 | 1,21 | 4516 | 190 |
| INDIVIDUAL | 0,32 | 0% | 31,53 | 29,75 | 1,59 | 4599 | 206 |
| INC. FAMILIA | 64,83% | 0,00% | 101,86% | 96,14% | 131,36% | 101,83% | 108,21% |
| INC. MUNDIAL | 26,90% | 0,00% | 102,32% | 72,34% | 26,49% | 103,08% | 40,30% |

| EPS-026 | CU | ALMA EPS |
|---|---|---|

NUCLEO 10 CM. SISTEMA DE PANELES CON NUCLEO DE EPS.

## INDICE DE TRANSMITANCIA TERMICA "K"

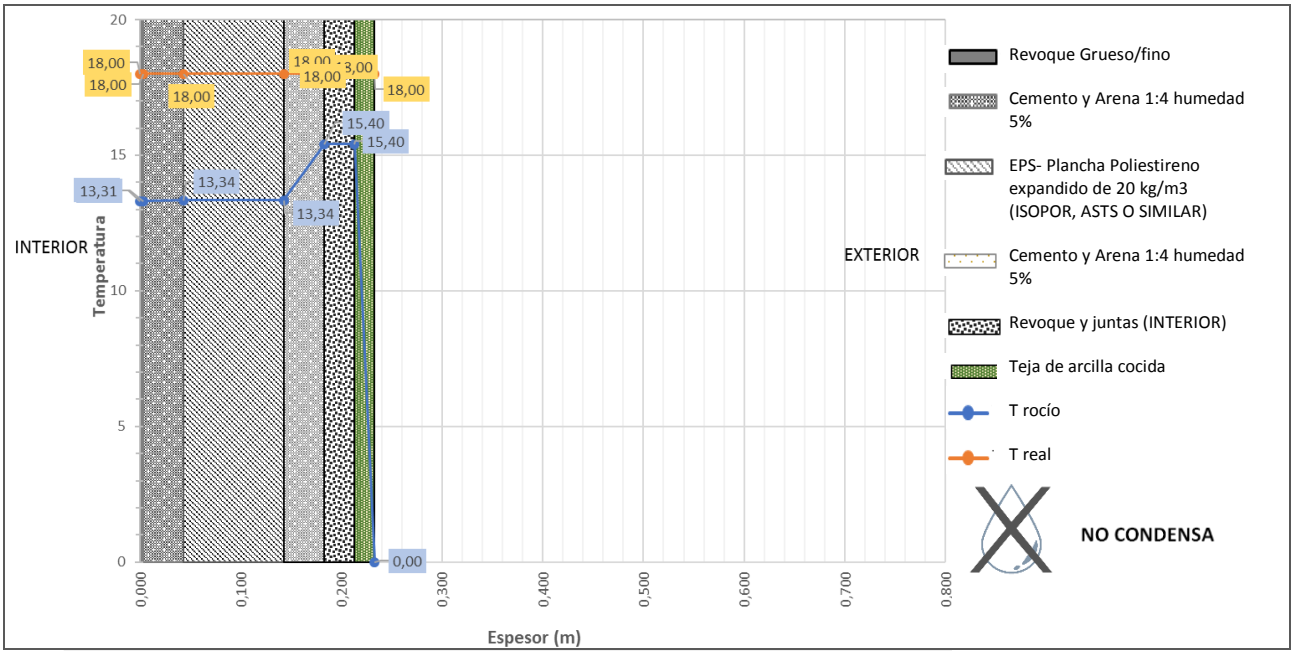
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,31 | 0,32 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



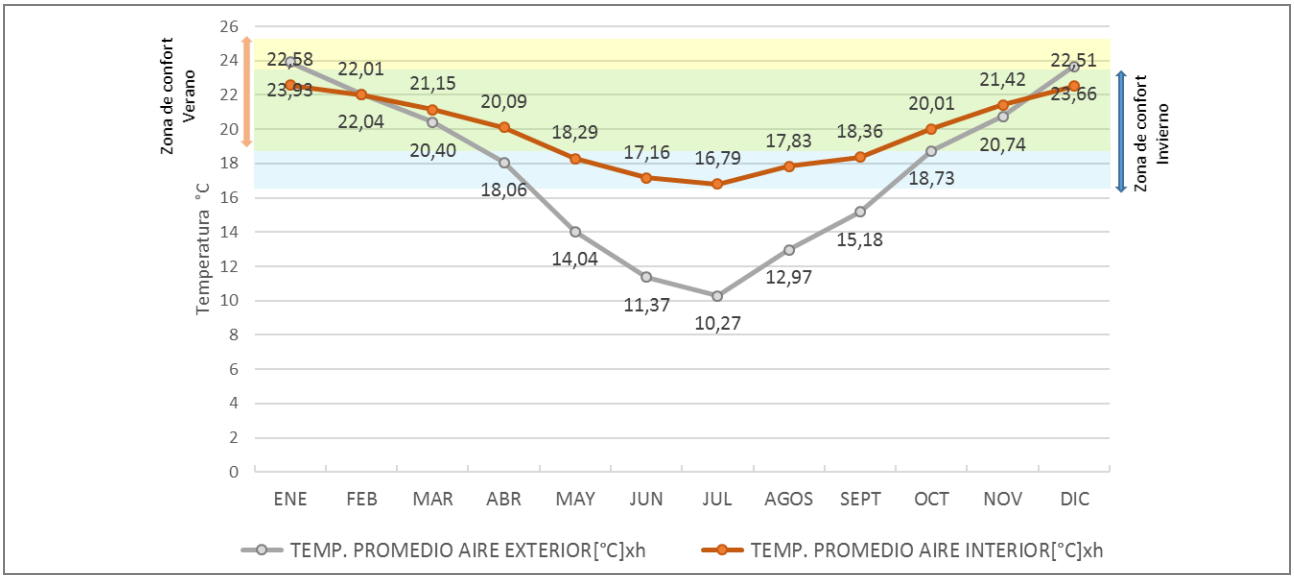

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 18,6 | 15,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **17,8** | **16,4** |
| | **Amortiguamiento:** | 0,001 | 0,002 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **14,6** | **10,2** |
| | **Amortiguamiento:** | 0,022 | 0,070 |

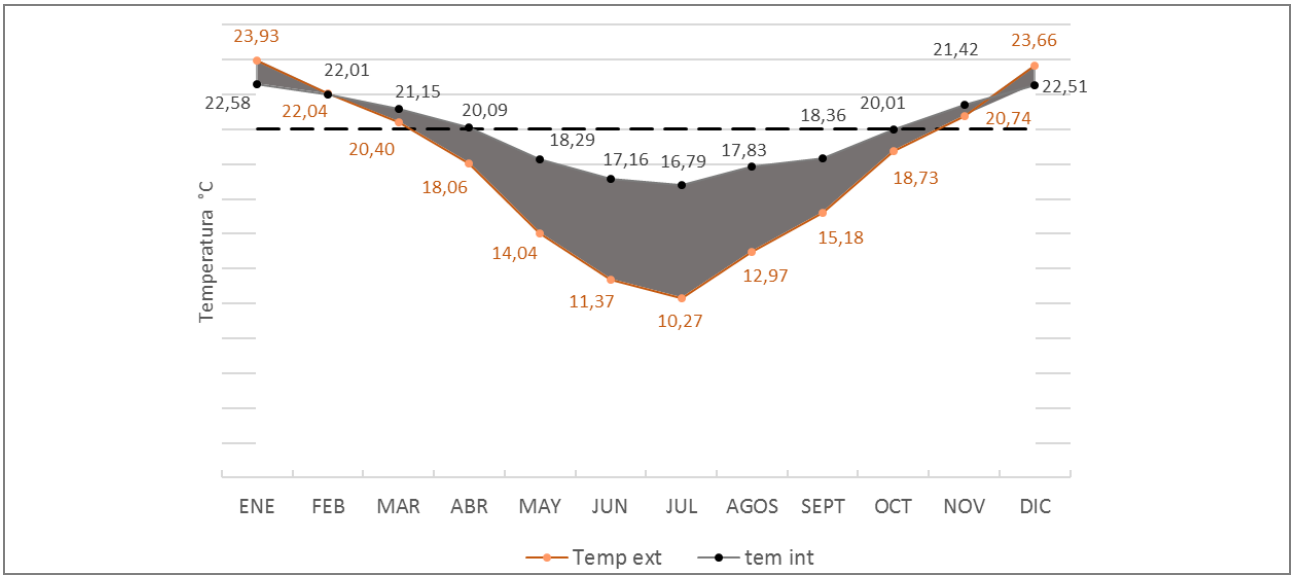
| EPS-026 | CU | ALMA EPS |
|---|---|---|

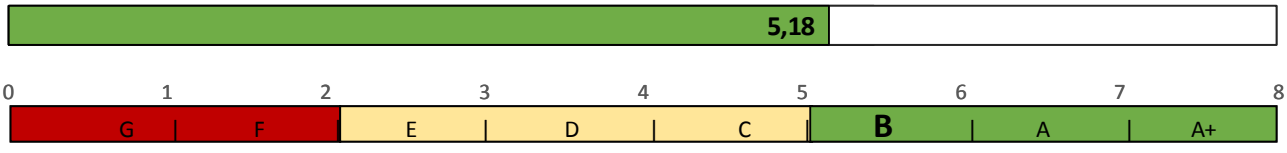
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 01/05 18:00 hs | **24,99** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,94** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



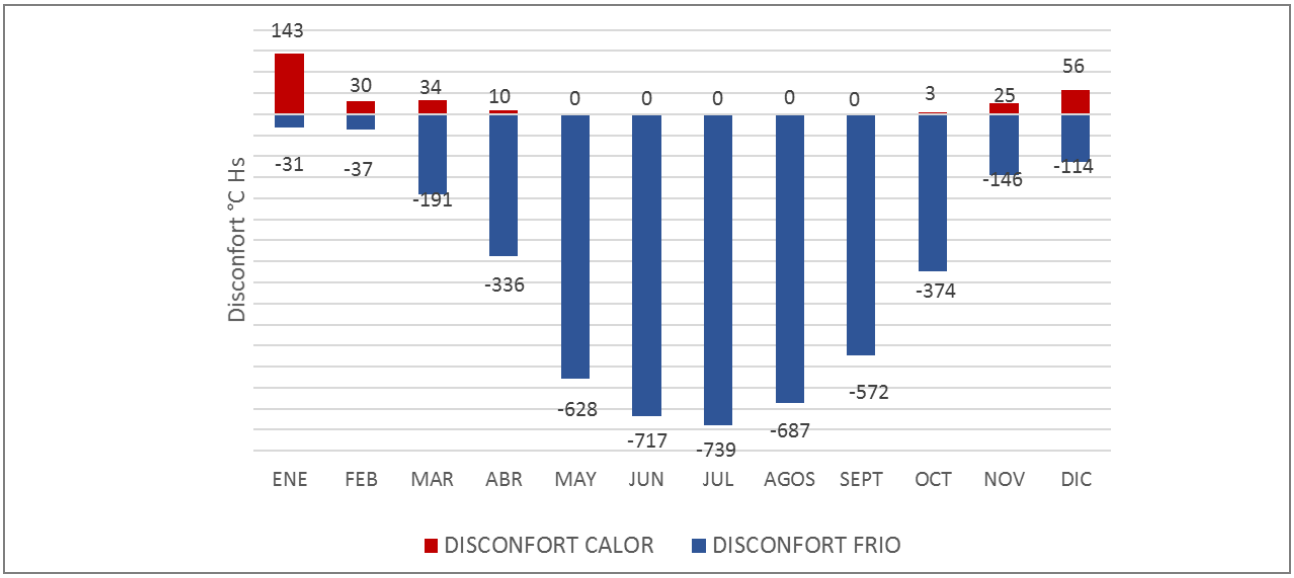




5,18 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| EPS-026 | CU | ALMA EPS |
|---|---|---|

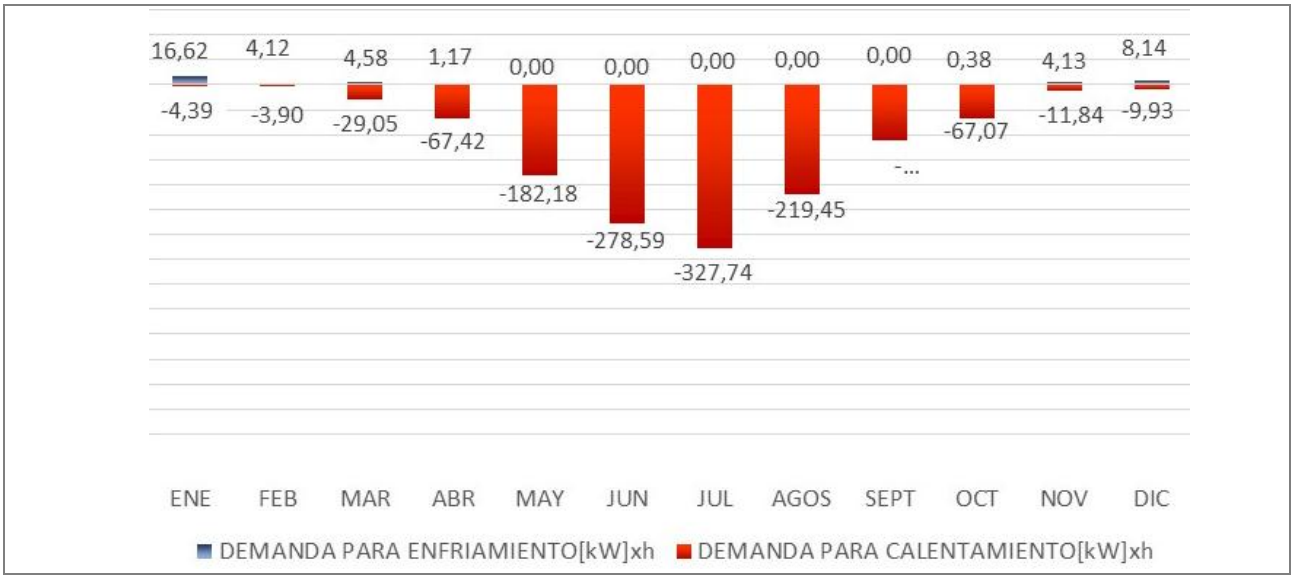
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **301** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.572** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.874** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

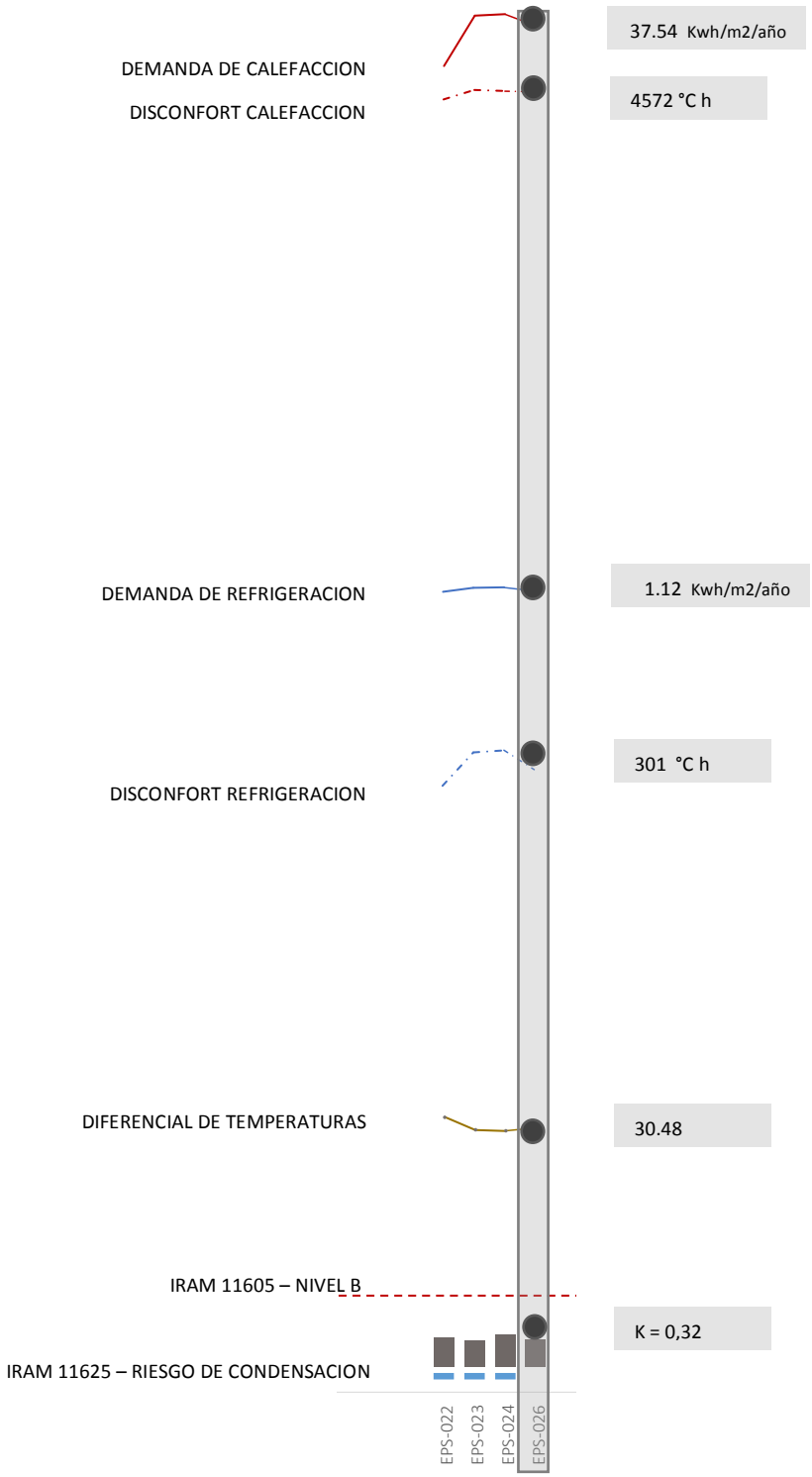



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **39,14** | kWh | 1,12 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.313,85** | kWh | 37,54 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.352,99** | kWh | **38,66** | kWh/m2/año |

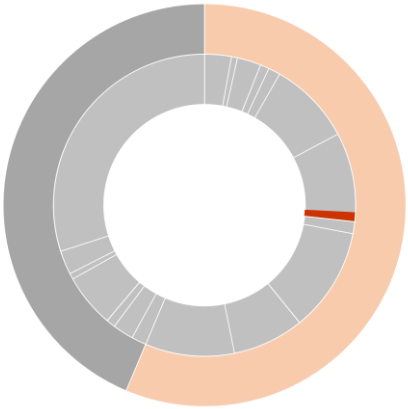
| EPS-026 | CU | ALMA EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 030 | N° 005 | N° 003 | N° 002 | N° 063 | N° 002 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,34 | 75% | 30,03 | 44,54 | 4,52 | 4598 | 629 |
| INDIVIDUAL | 0,32 | 0% | 30,48 | 37,54 | 1,12 | 4572 | 301 |
| INC. FAMILIA | 93,43% | 0% | 101,50% | 84,28% | 24,75% | 99,44% | 47,86% |
| INC. MUNDIAL | 39,51% | 0% | 102,63% | 84,40% | 27,23% | 100,24% | 47,65% |



# ENCOFRADO EPS

**EPX 001**: MURO EXACTA ESP. 12- SISTEMA MURARIO DE MAMPUESTOS ENCASTRABLES Y ENCOFRANTES DE EPS.

**EPX 002**: MURO EXACTA 18 -SISTEMA MURARIO DE MAMPUESTOS ENCASTRABLES Y ENCOFRANTES DE EPS.

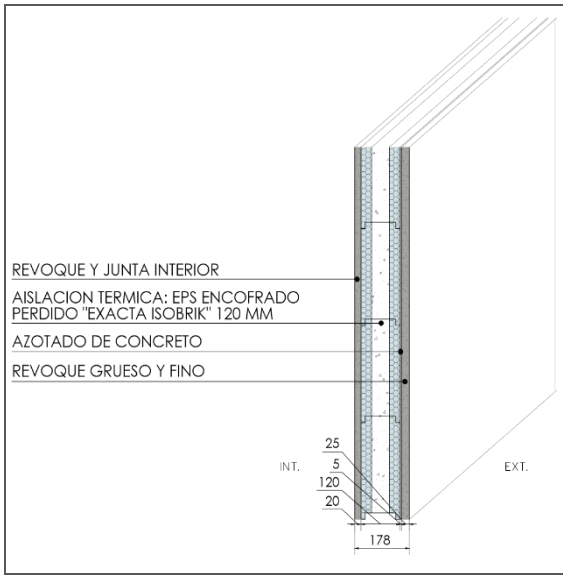
**EPX 003:** CUBIERTA SISTEMA EXACTA

| EPX-001 | MU | ENCONFRADO DE EPS |
|---|---|---|

MURO EXACTA ESP. 12- SISTEMA MURARIO DE MAMPUESTOS ENCASTRABLES Y ENCOFRANTES DE EPS.

## INDICE DE TRANSMITANCIA TERMICA "K"

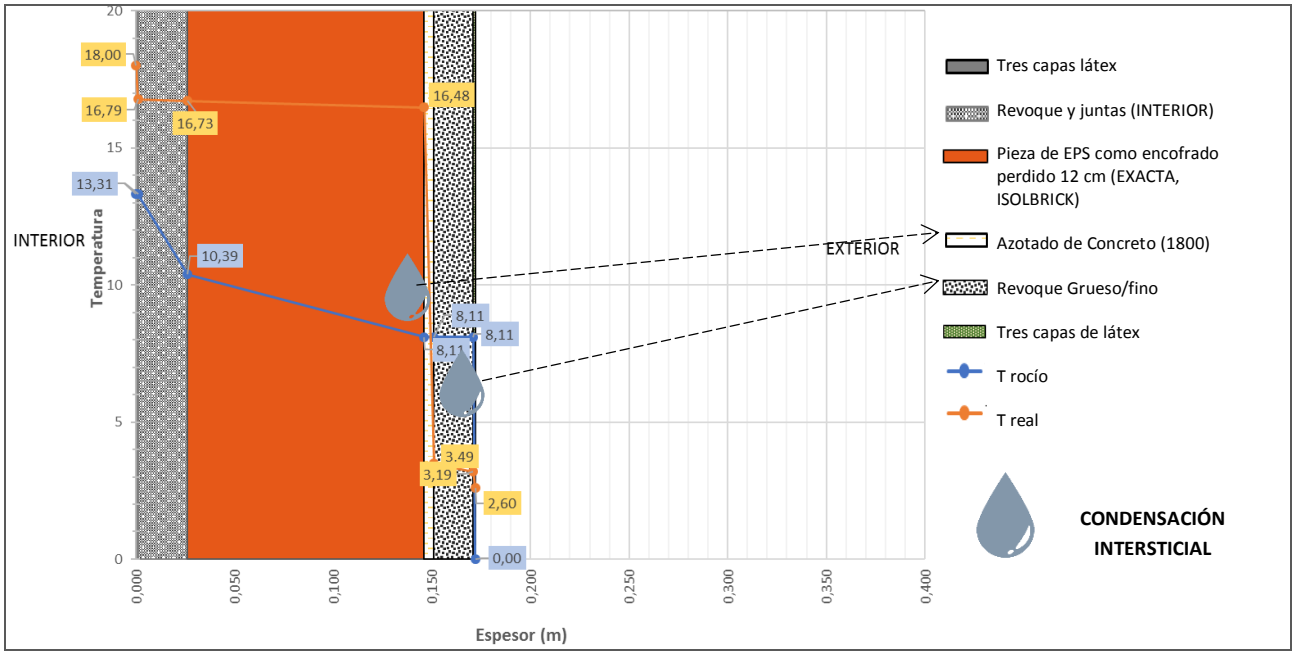
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,61 | 0,61 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



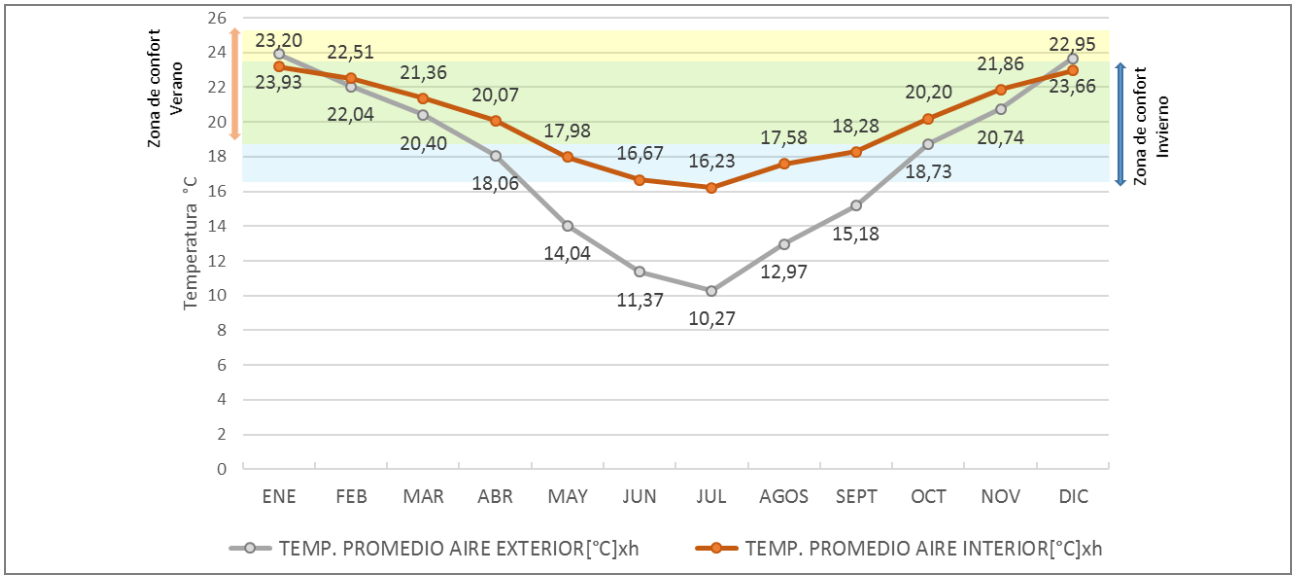

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | 27,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | **10,7** |
| | **Amortiguamiento:** | | 0,019 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,2** | **7,0** |
| | **Amortiguamiento:** | 0,117 | 0,158 |

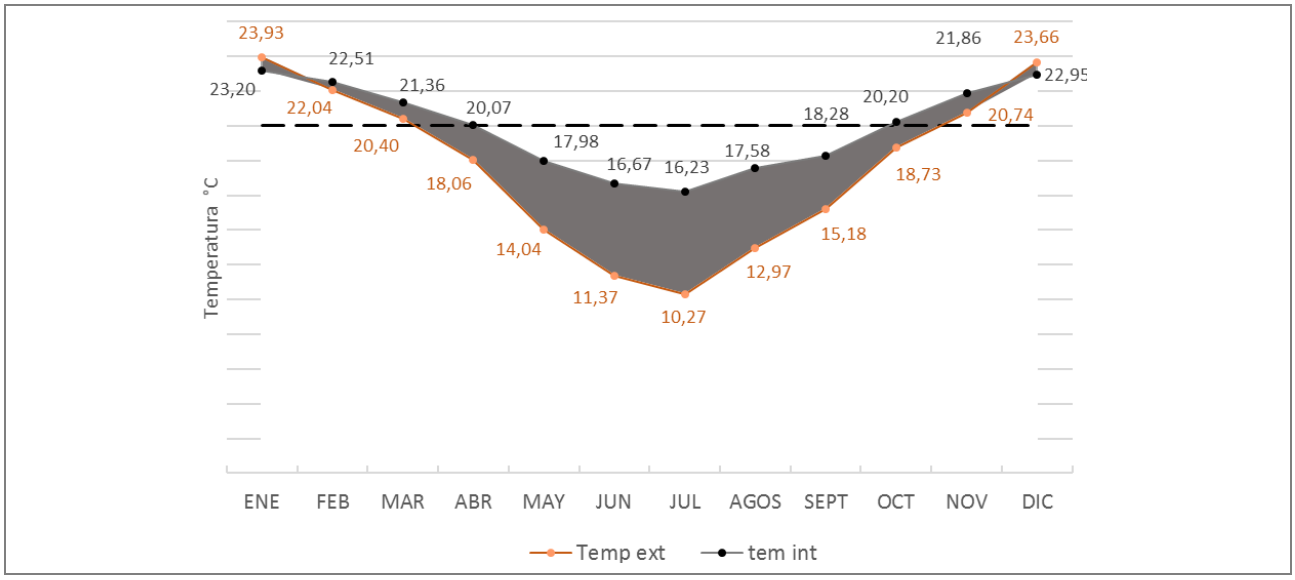
| EPX-001 | MU | ENCONFRADO DE EPS |
|---|---|---|

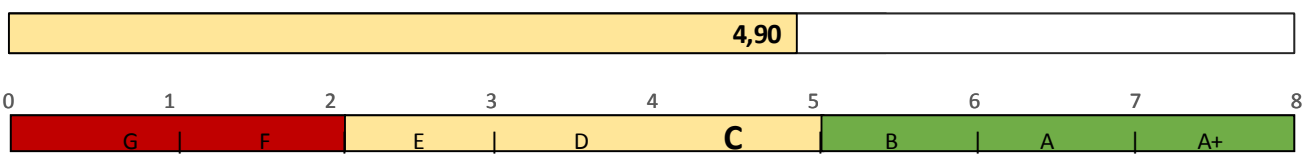
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 19:00 hs | **26,28** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,79** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



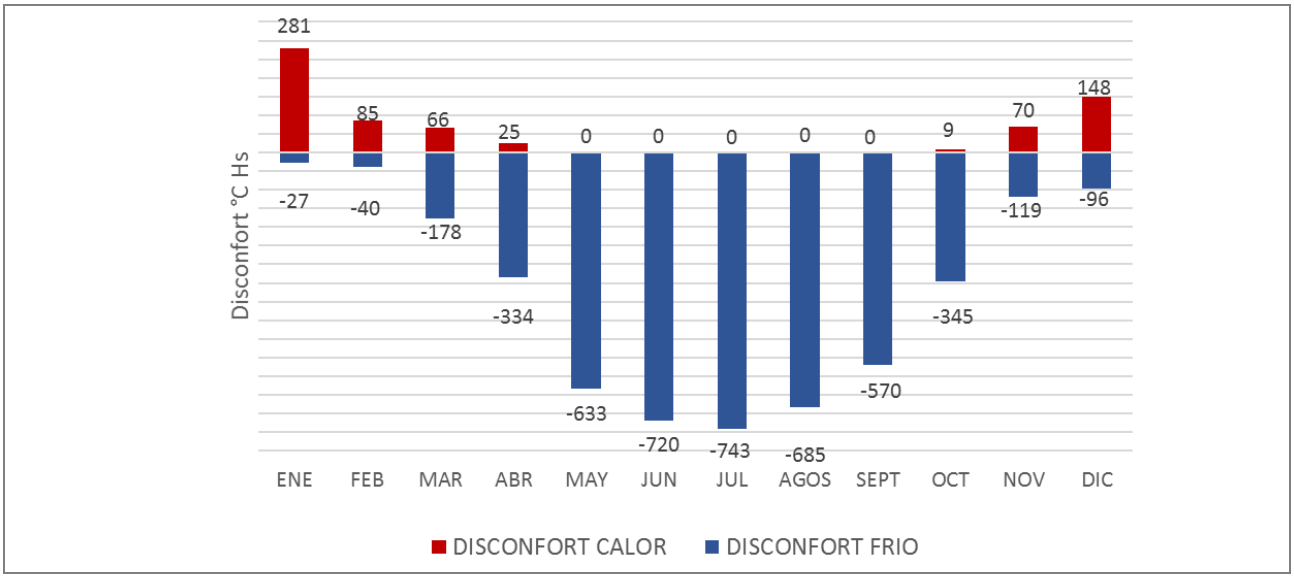




4,90 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| EPX-001 | MU | ENCONFRADO DE EPS |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

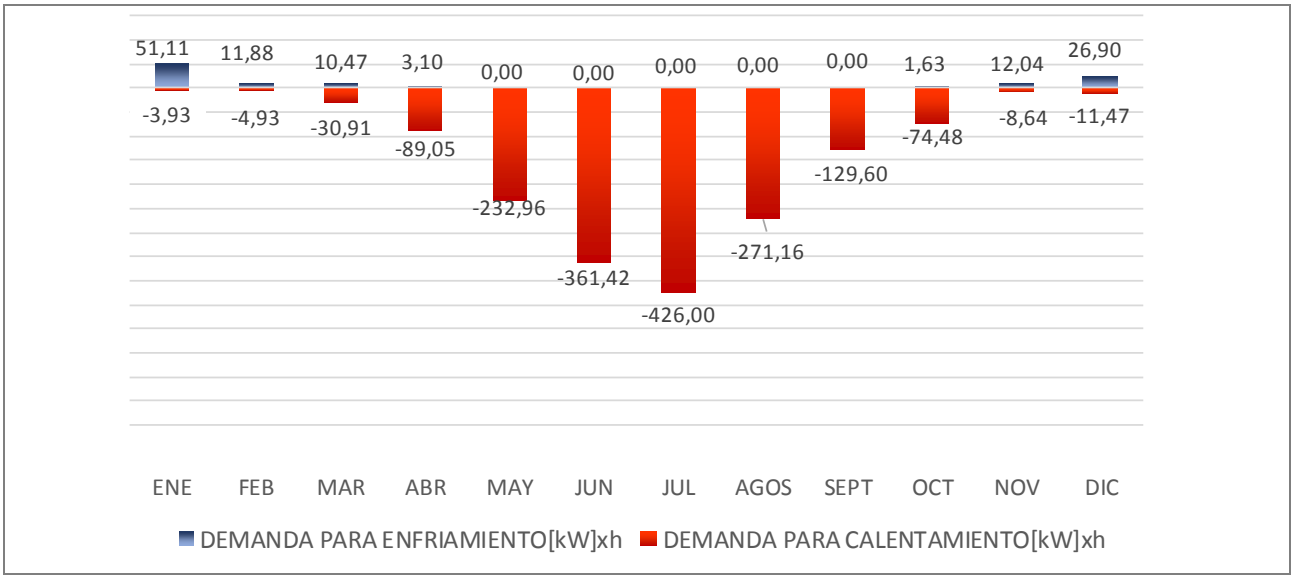
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **685** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.489** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.173** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

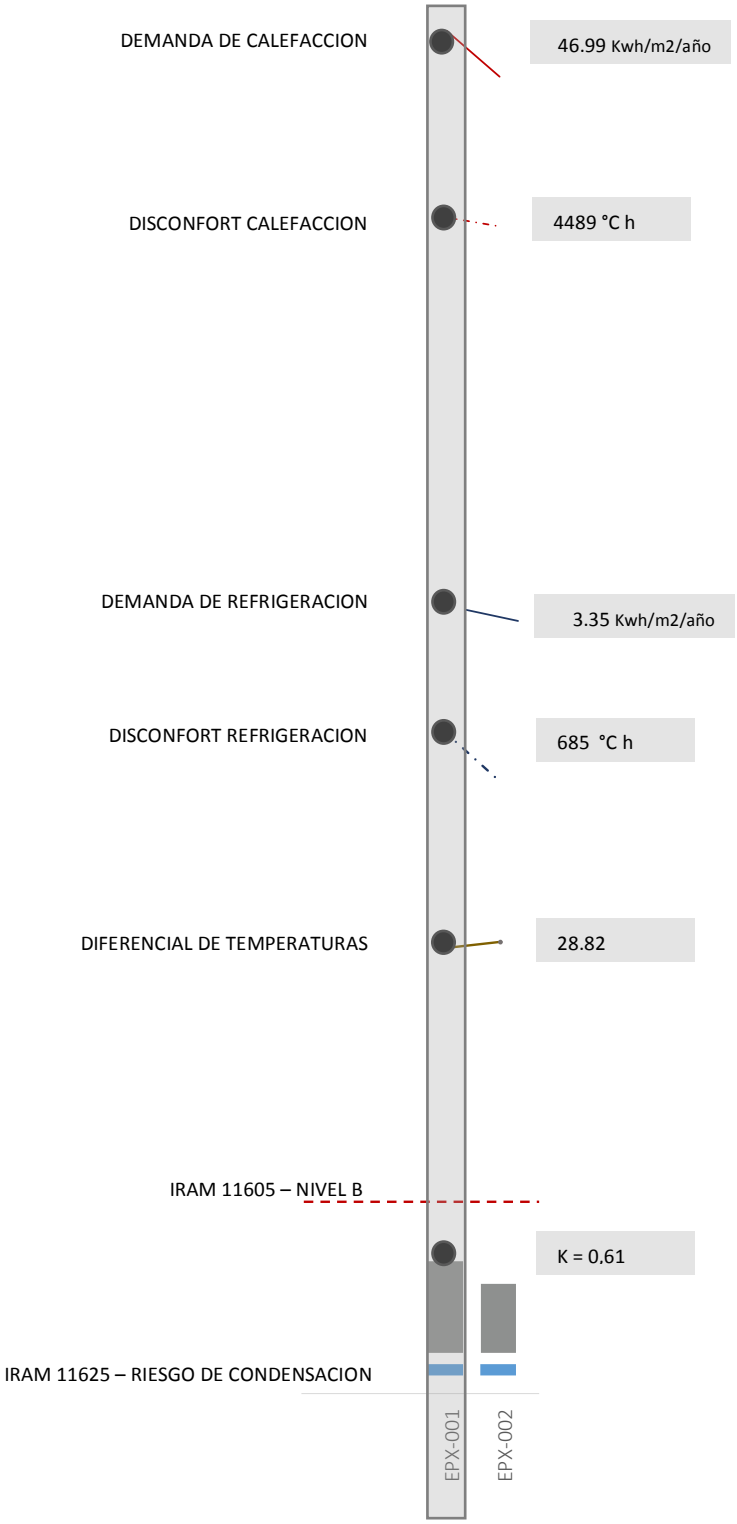



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **117,13** | kWh | 3,35 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.644,56** | kWh | 46,99 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.761,68** | kWh | **50,33** | kWh/m2/año |

| EPX-001 | MU | ENCONFRADO DE EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 143 | N° 187 | N° 178 | N° 174 | N° 045 | N° 181 |



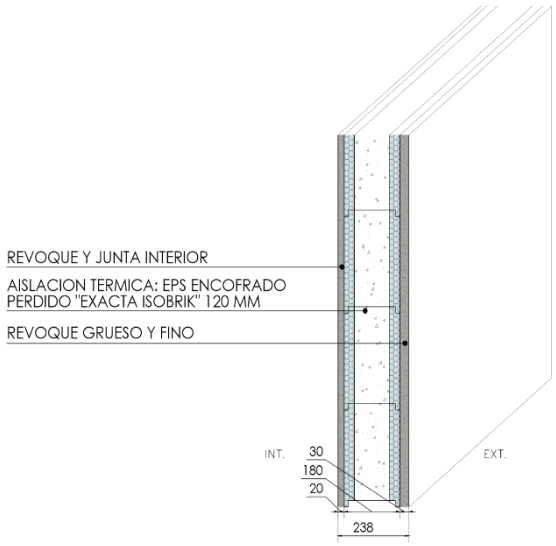

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,54 | 100% | 29,02 | 43,73 | 2,51 | 4466 | 548 |
| INDIVIDUAL | 0,61 | 100% | 28,82 | 46,99 | 3,35 | 4489 | 685 |
| INC. FAMILIA | ↑ 114% | ● 100% | ↓ 99% | ↑ 107% | ↑ 133% | ↑ 101% | ↑ 125% |
| INC. MUNDIAL | ↓ 51% | ↑ 357% | ↓ 93,5% | ↑ 114% | ↓ 56% | ↑ 101% | ↑ 134% |

| EPX-002 | MU | ENCONFRADO DE EPS |
|---|---|---|

MURO EXACTA 18 -SISTEMA MURARIO DE MAMPUESTOS ENCASTRABLES Y ENCOFRANTES DE EPS.

## INDICE DE TRANSMITANCIA TERMICA "K"

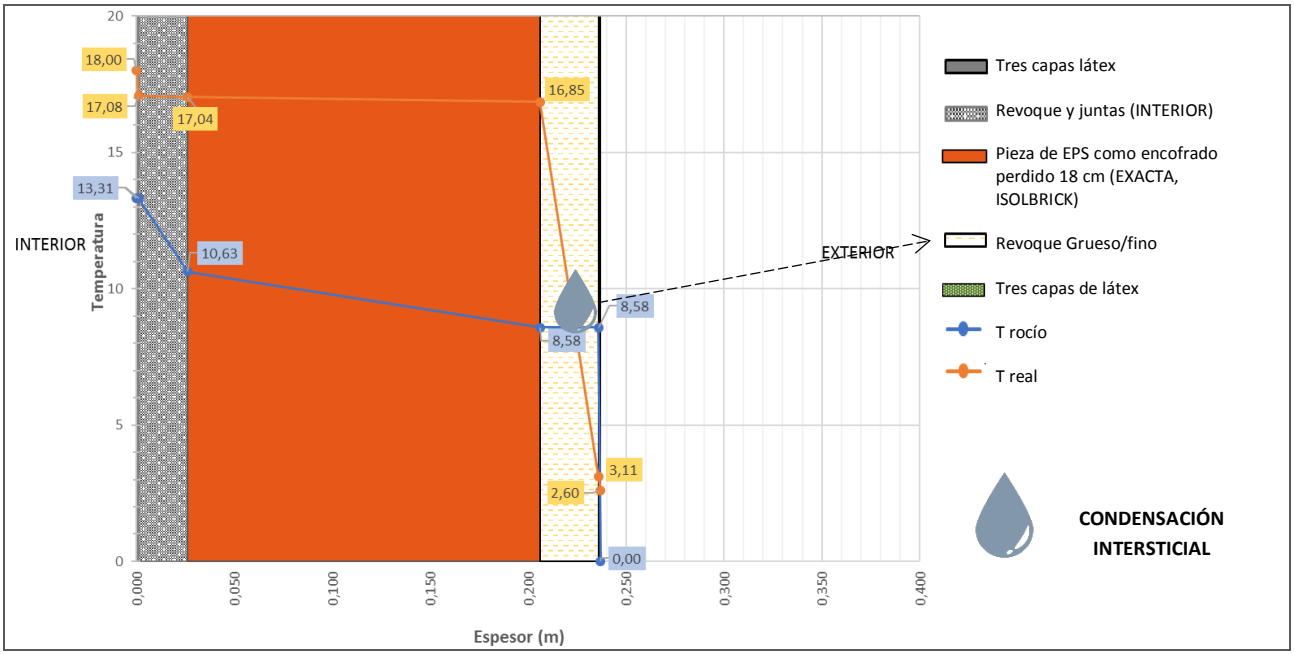
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,46 | 0,46 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



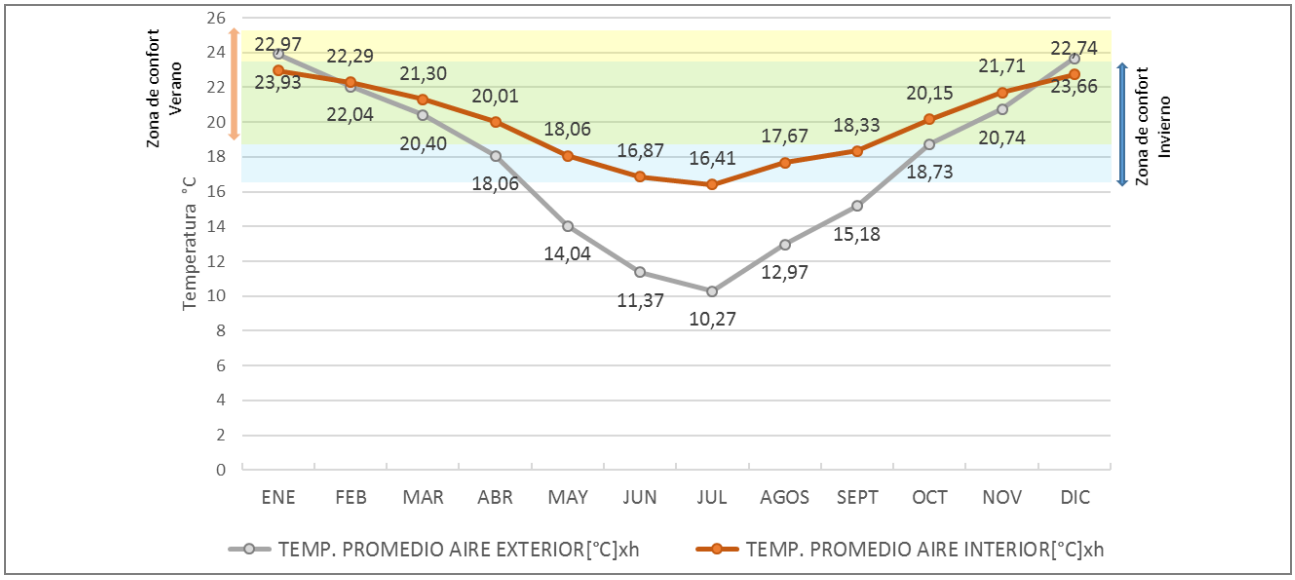

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | 25,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | **14,0** |
| | **Amortiguamiento:** | | 0,006 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,2** | **8,2** |
| | **Amortiguamiento:** | 0,053 | 0,116 |

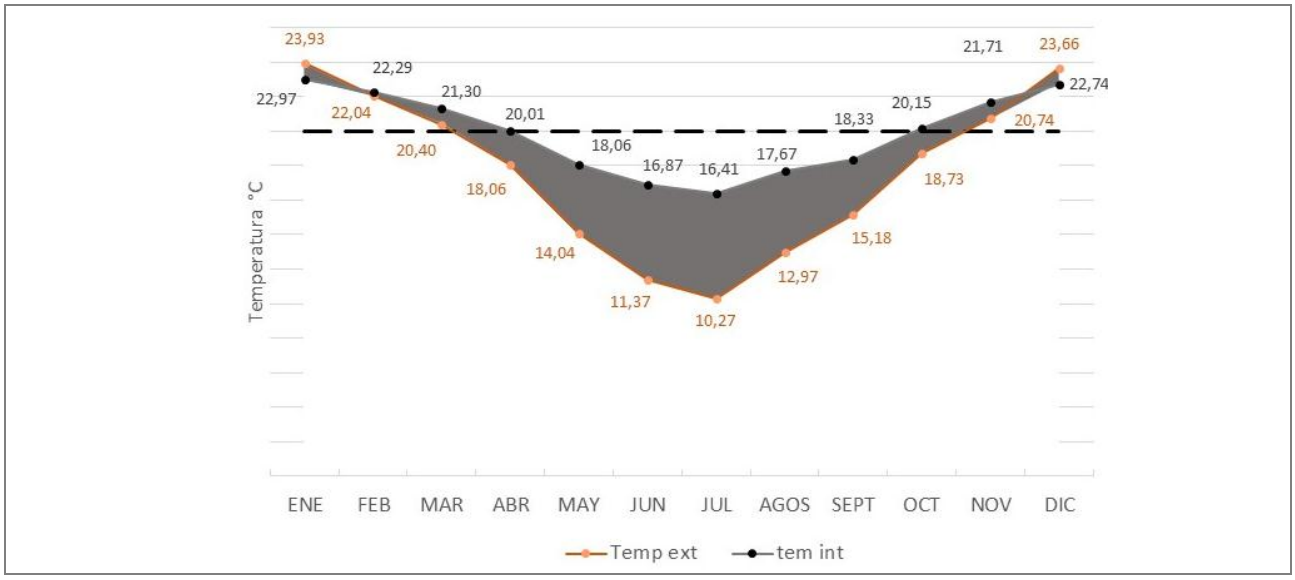
| EPX-002 | MU | ENCONFRADO DE EPS |
|---|---|---|

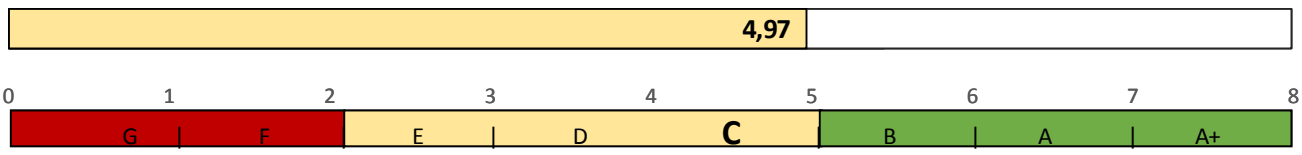
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,47** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **13,66** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS




4,97 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| EPX-002 | MU | ENCONFRADO DE EPS |
|---|---|---|

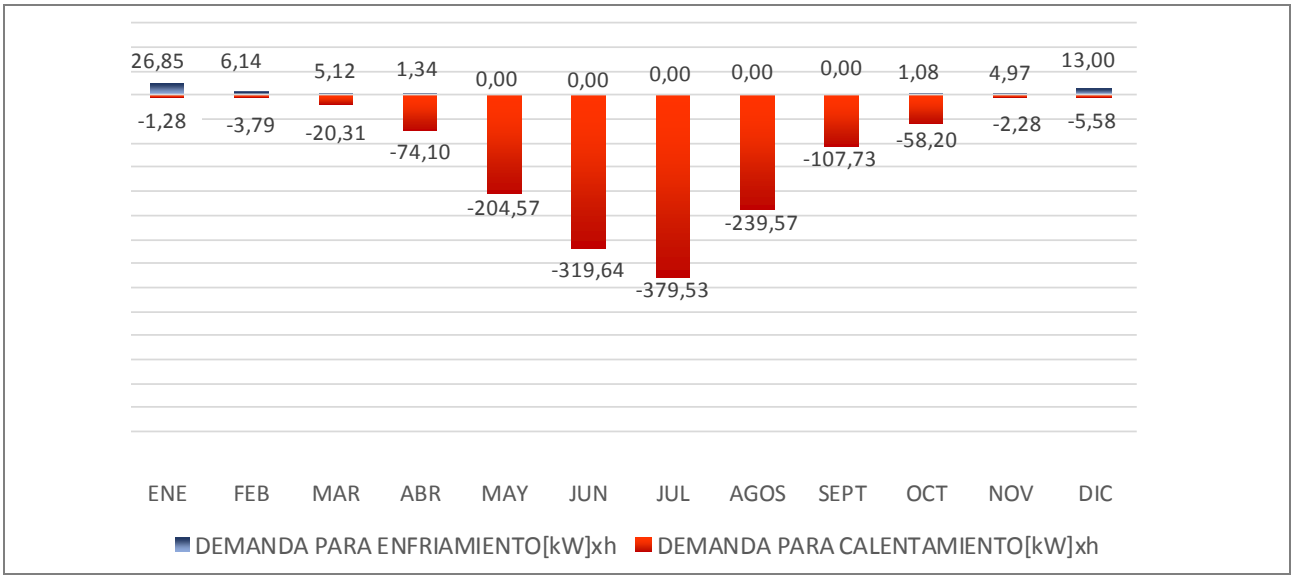
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **410** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.442** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.852** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

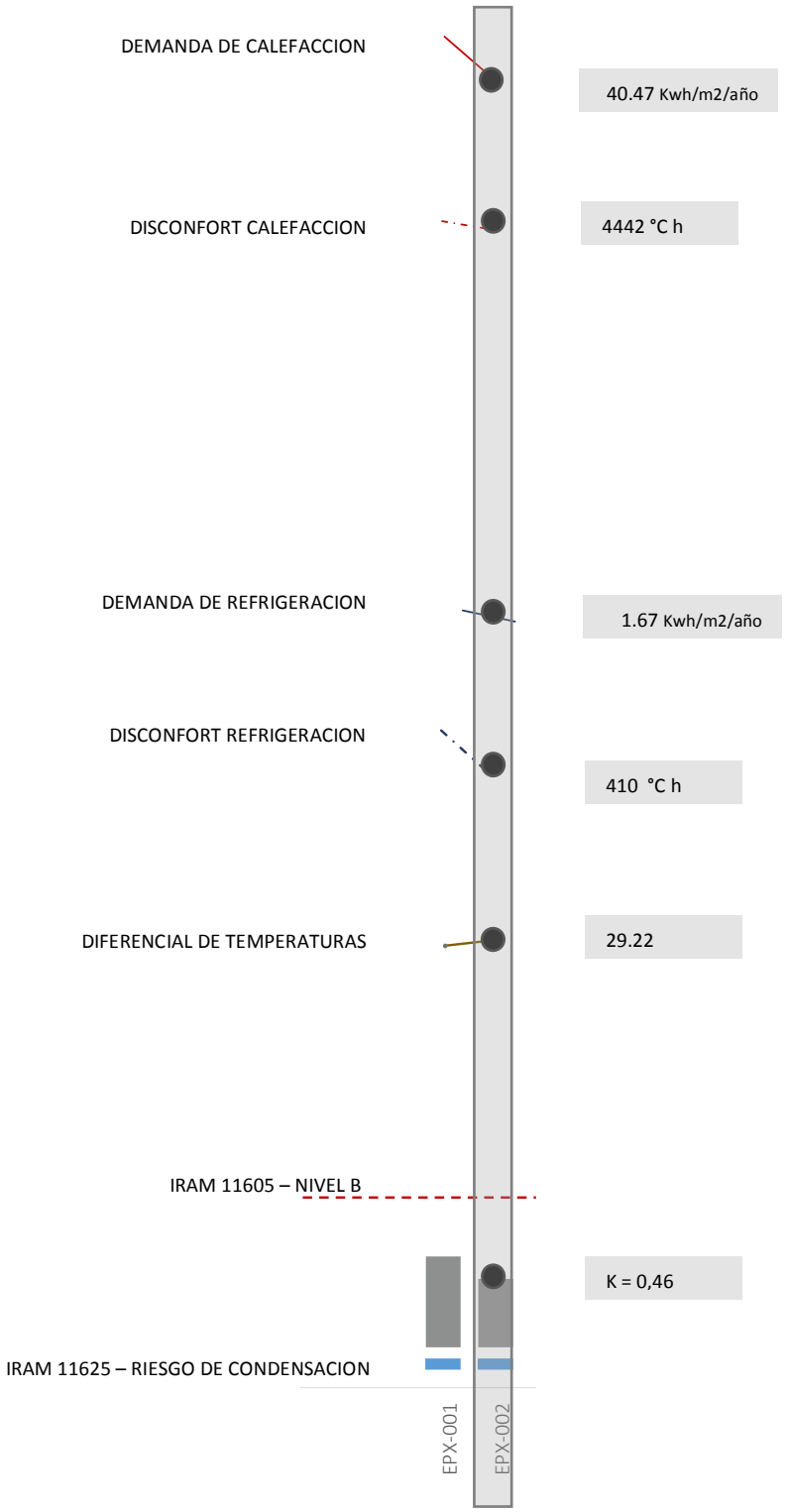



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **58,51** | kWh | 1,67 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.416,58** | kWh | 40,47 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.475,08** | kWh | **42,15** | kWh/m2/año |

| EPX-002 | MU | ENCONFRADO DE EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 102 | N° 177 | N° 173 | N° 130 | N° 015 | N° 164 |



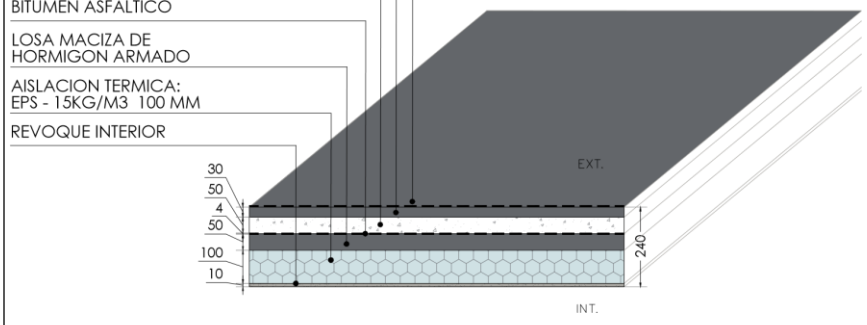

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,54 | 100% | 29,02 | 43,73 | 2,51 | 4466 | 548 |
| INDIVIDUAL | 0,46 | 100% | 29,22 | 40,47 | 1,67 | 4442 | 410 |
| INC. FAMILIA | 86% | 100% | 101% | 93% | 67% | 99% | 75% |
| INC. MUNDIAL | 39% | 357% | 94,8% | 98% | 28% | 99,6% | 80% |

| EPX-003 | CU | ENCONFRADO DE EPS |
|---|---|---|

CUBIERTA SISTEMA EXACTA

## INDICE DE TRANSMITANCIA TERMICA "K"

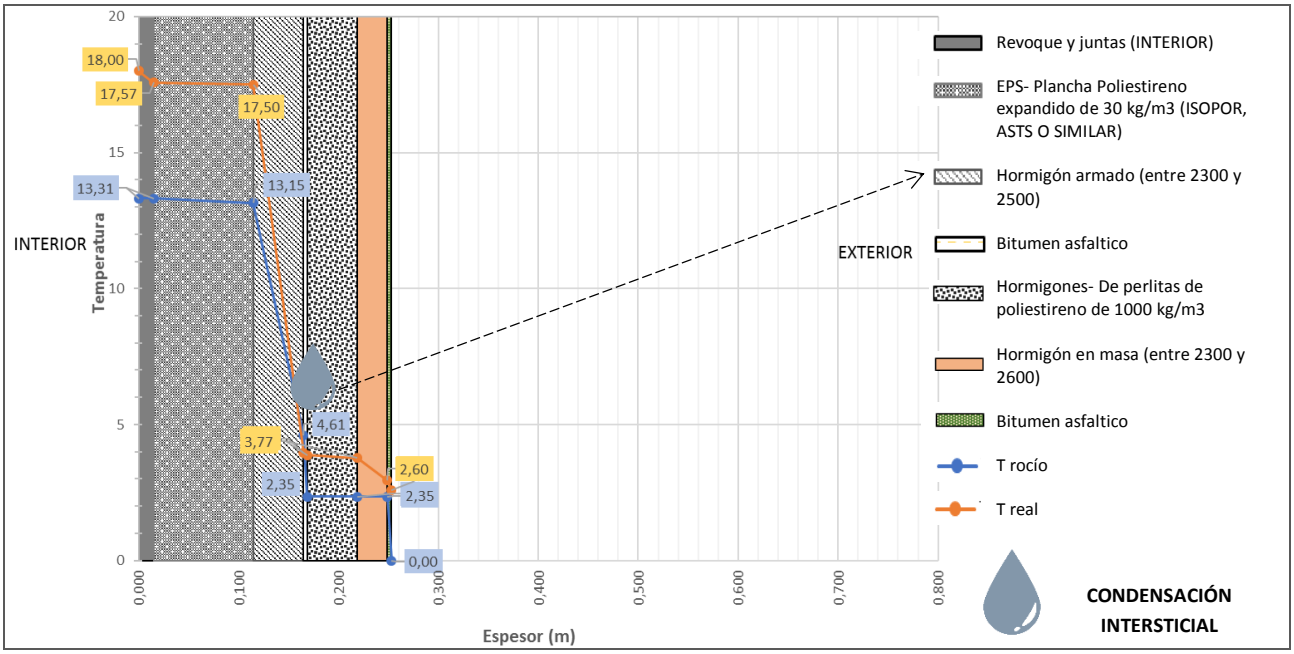
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,28 | 0,28 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



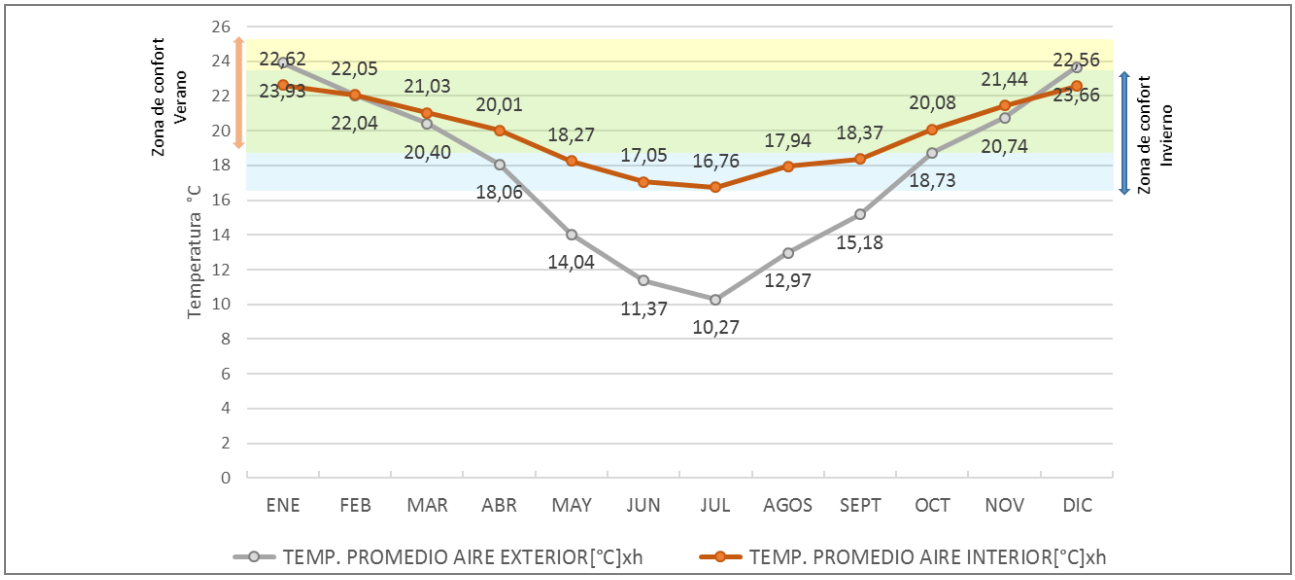

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 20,4 | 21,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **21,3** | **22,0** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **20,4** | **7,6** |
| | **Amortiguamiento:** | 0,005 | 0,136 |

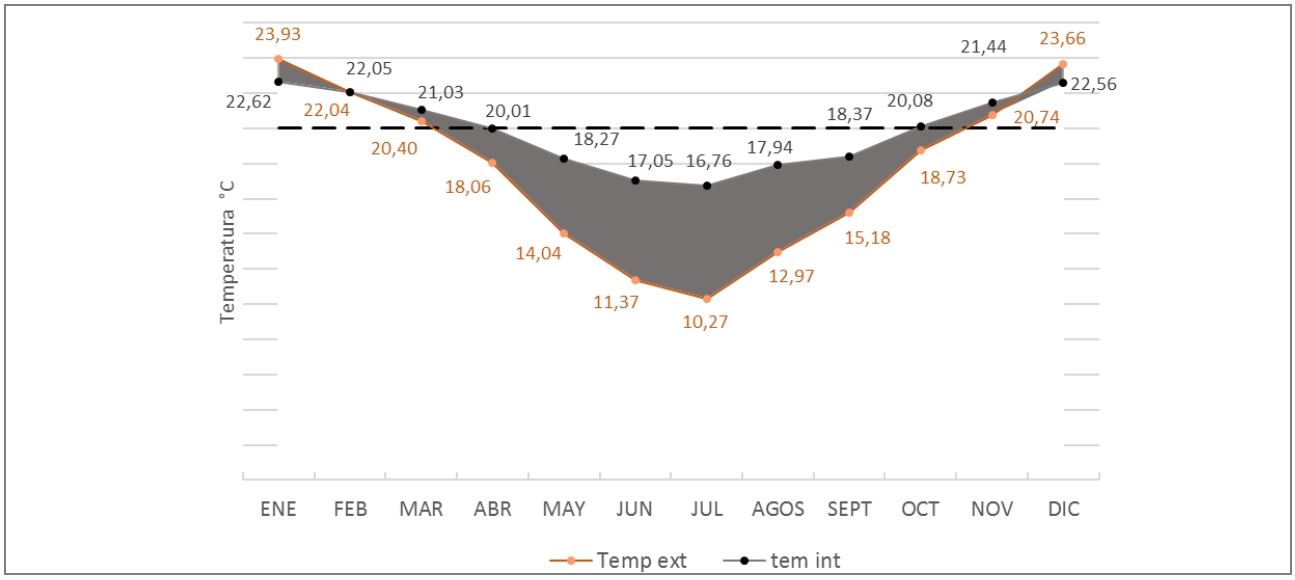
| EPX-003 | CU | ENCONFRADO DE EPS |
|---|---|---|

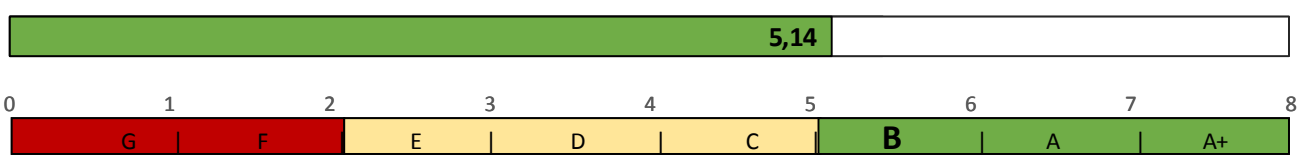
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,83** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,38** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



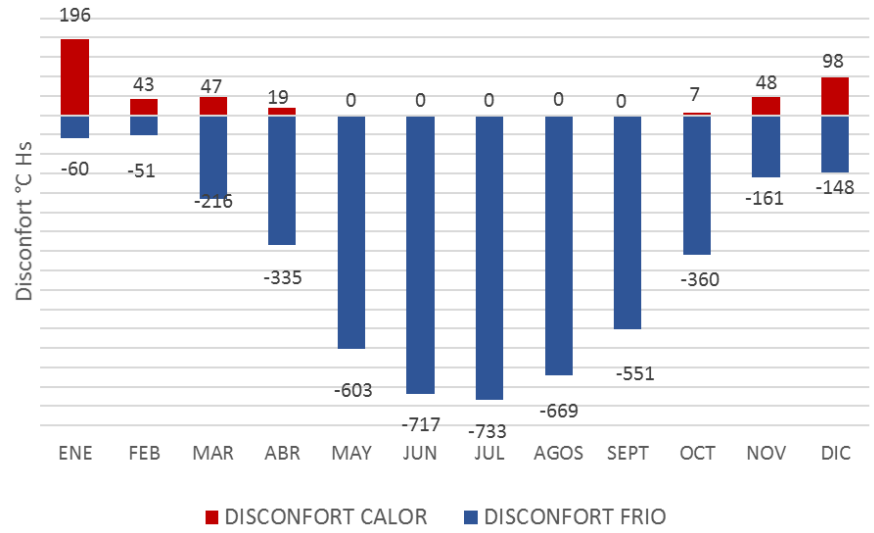




5,14 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| EPX-003 | CU | ENCONFRADO DE EPS |
|---|---|---|

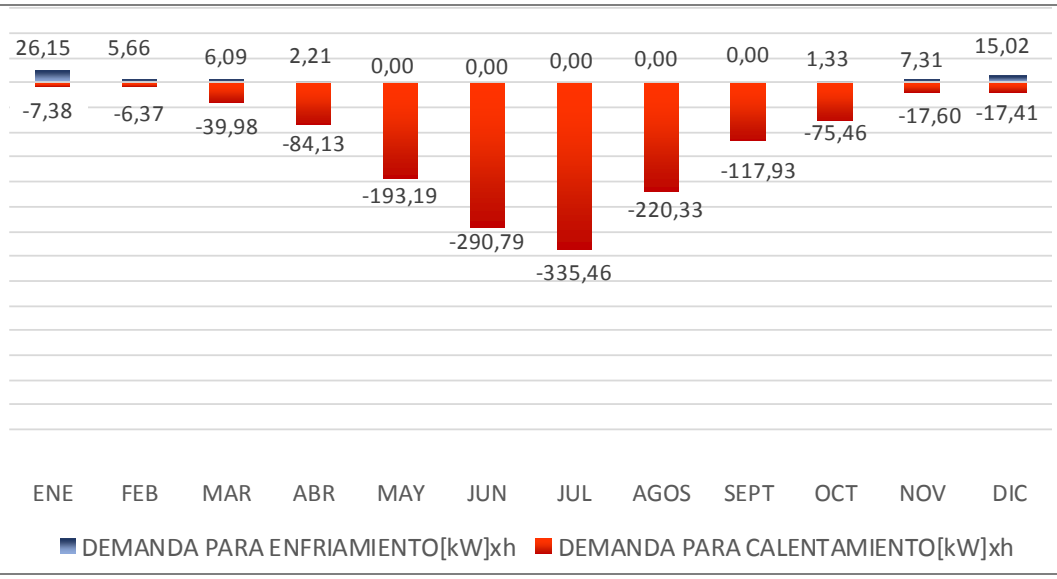
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **458** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.604** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.062** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

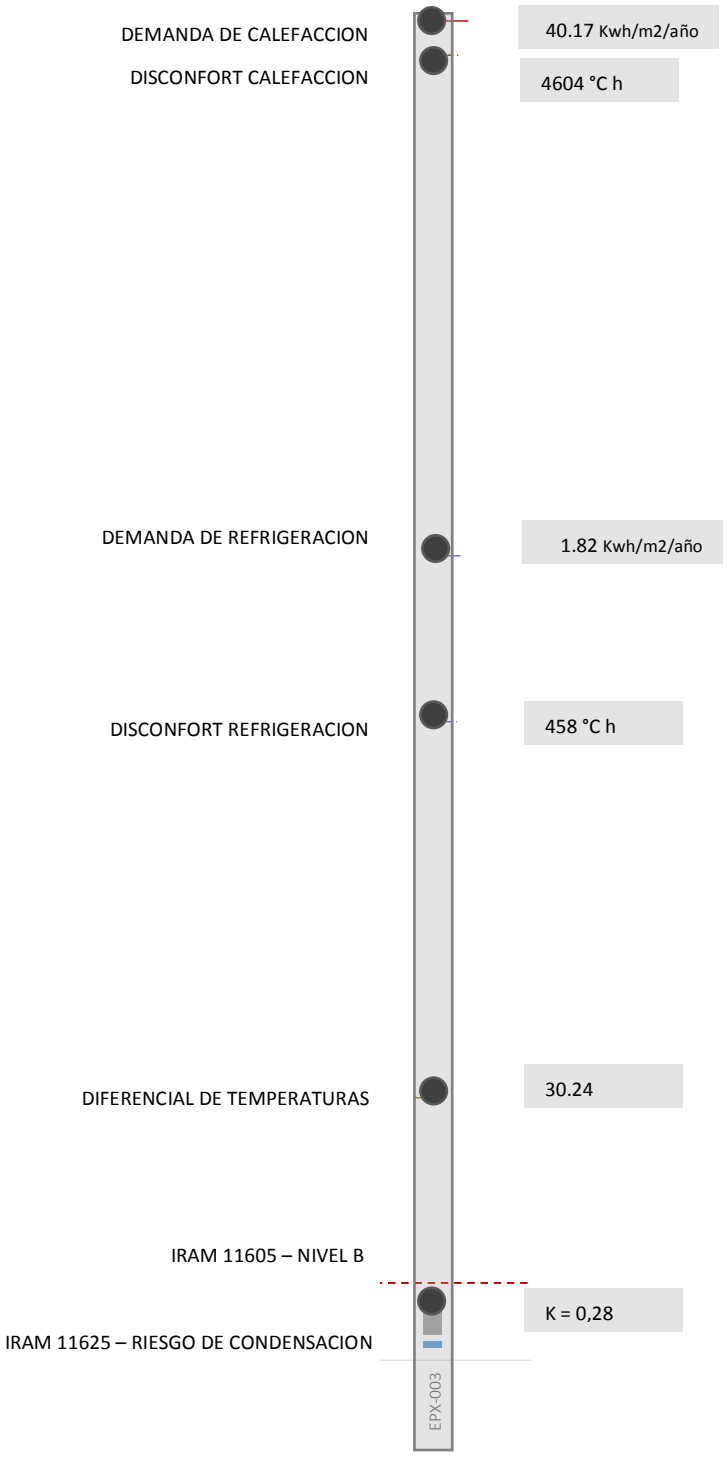



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **63,77** | kWh | 1,82 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.406,04** | kWh | 40,17 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.469,81** | kWh | **41,99** | kWh/m2/año |

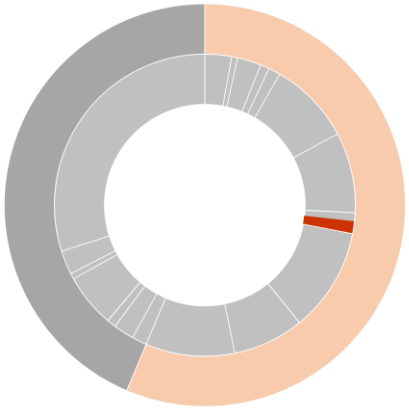
| EPX-003 | CU | ENCONFRADO DE EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 008 | N° 018 | N° 021 | N° 024 | N° 104 | N° 025 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,28 | 100% | 30,24 | 40,17 | 1,82 | 4604 | 458 |
| INDIVIDUAL | 0,28 | 100% | 30,24 | 40,17 | 1,82 | 4604 | 458 |
| INC. FAMILIA | 100,00% | 0% | 100,00% | 100,00% | 100,00% | 100,00% | 100,00% |
| INC. MUNDIAL | 34,57% | 208% | 101,82% | 90,31% | 44,25% | 100,94% | 72,51% |



# PRENOVA

**PNV 001**: CUBIERTA TRADICIONAL SOBRE LOSAS DE HORMIGON ARMADO ALIVIANADAS CON ESFERAS PLASTICAS. (PRENOVA).

**PNV 002**: CUBIERTA TRADICIONAL SOBRE LOSAS DE HORMIGON ARMADO ALIVIANADAS CON DISCOS PLASTICOS (PRENOVA)

**PNV 003:** TABIQUES ESTRUCTURALES DE HORMIGON ARMADO PRENOVA CON TERMINACION A LA VISTA

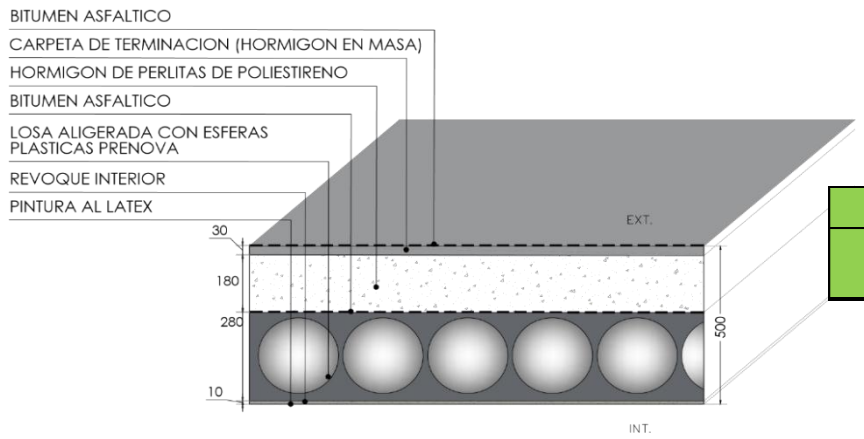
**PNV 004:** TABIQUES ESTRUCTURALES CON AISLACION TERMICA PRENOVA.

| PNV-001 | CU | PRENOVA |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSAS DE HORMIGON ARMADO ALIVIANADAS CON ESFERAS PLASTICAS. (PRENOVA).

## INDICE DE TRANSMITANCIA TERMICA "K"

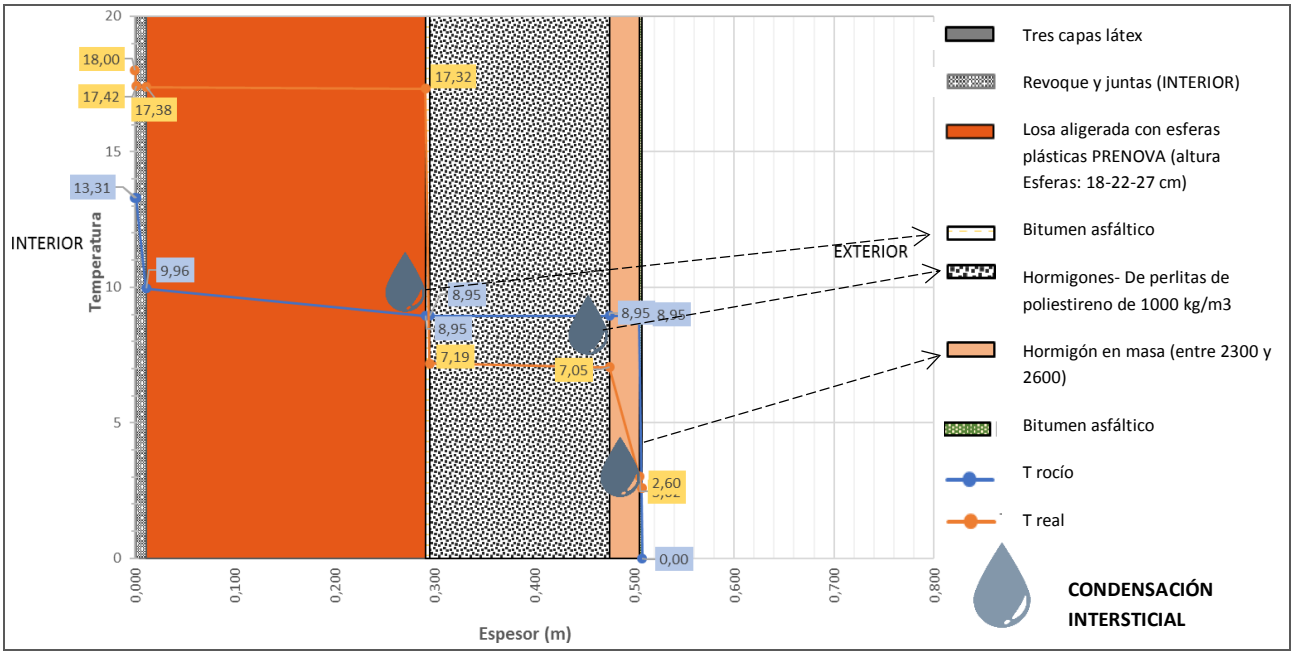
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,37 | 0,38 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



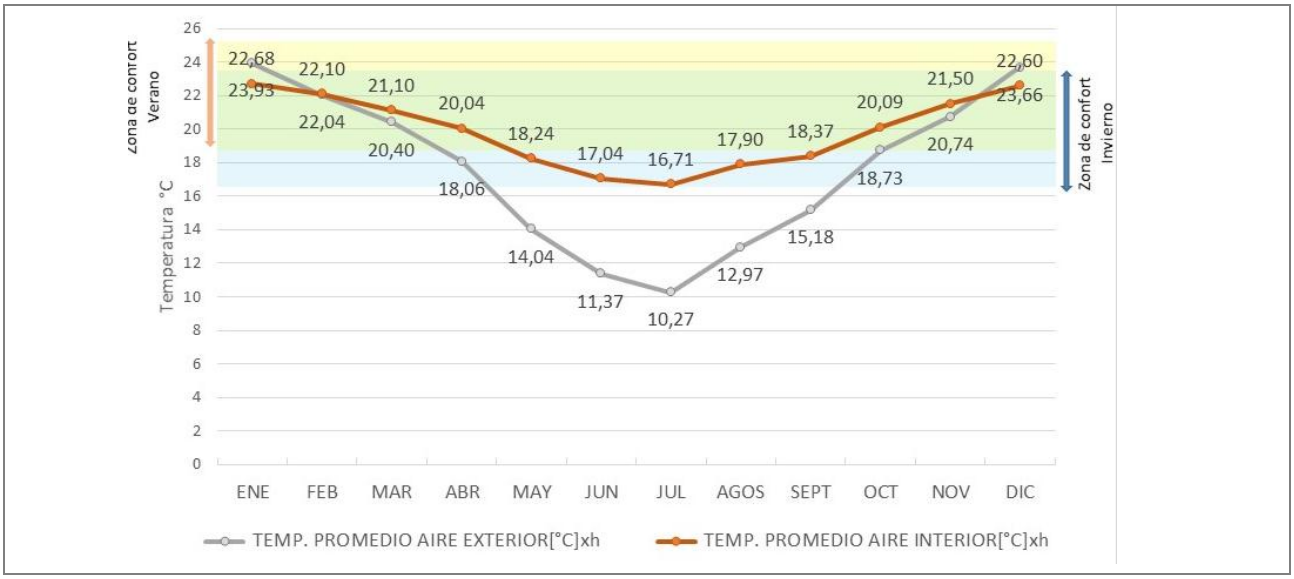

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 33,6 | 33,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **20,1** | **20,0** |
| | **Amortiguamiento:** | 0,001 | 0,001 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **18,3** | **7,8** |
| | **Amortiguamiento:** | 0,008 | 0,128 |

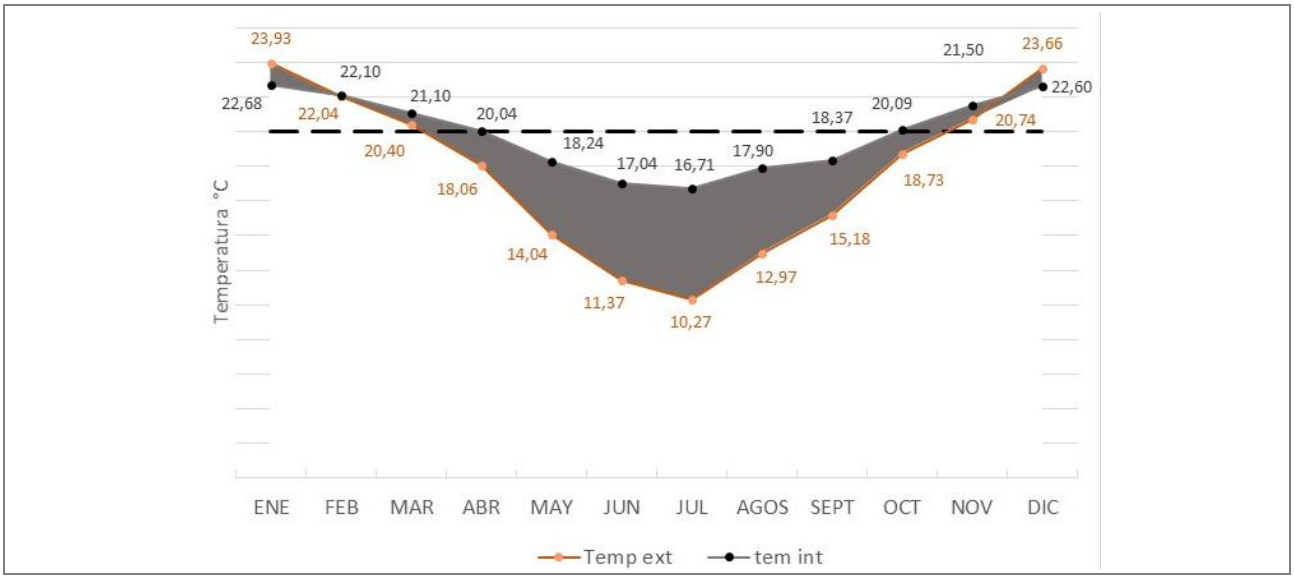
| PNV-001 | CU | PRENOVA |
|---|---|---|

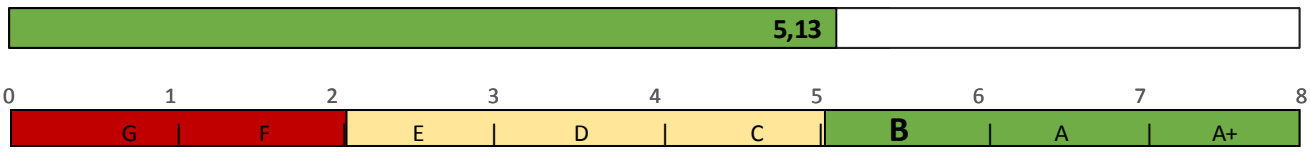
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,64** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,47** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



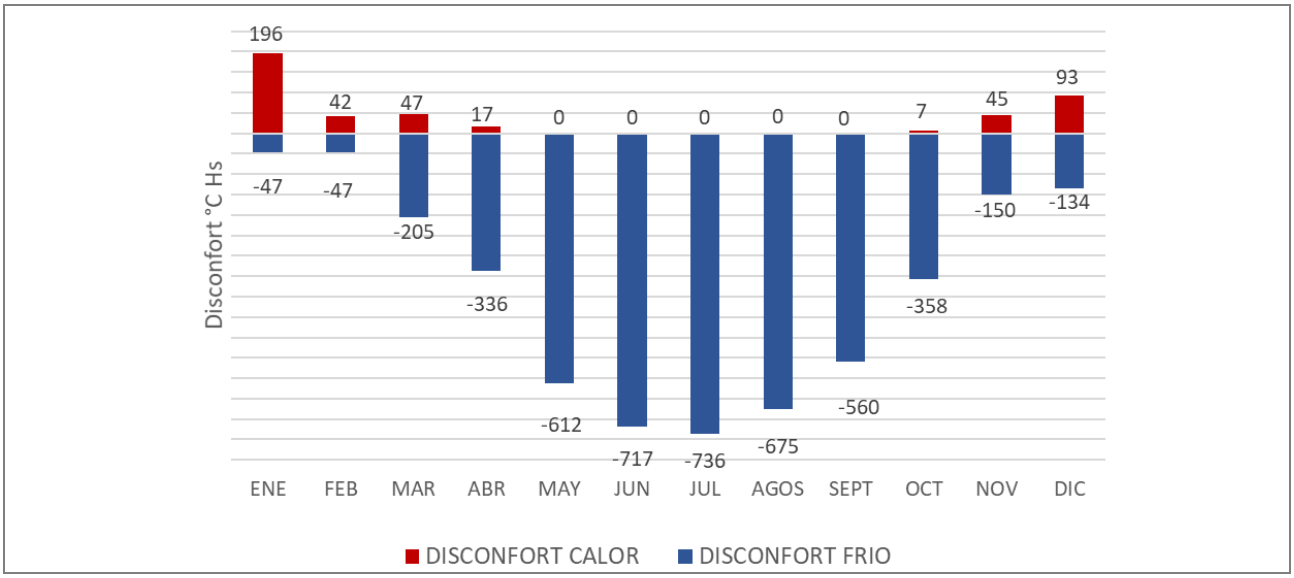




5,13 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| PNV-001 | CU | PRENOVA |
|---|---|---|

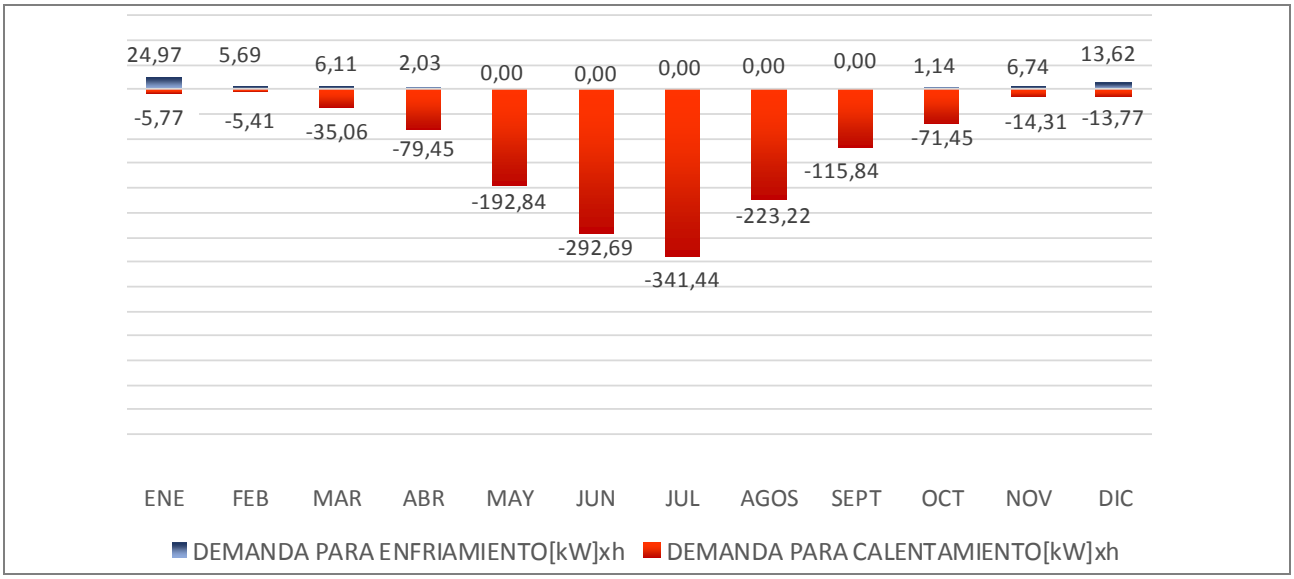
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **446** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.577** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.023** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **60,30** | kWh | 1,72 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.391,25** | kWh | 39,75 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1,451.55** | kWh | **41,47** | kWh/m2/año |

| PNV-001 | CU | PRENOVA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 040 | N° 029 | N° 015 | N° 018 | N° 070 | N° 021 |



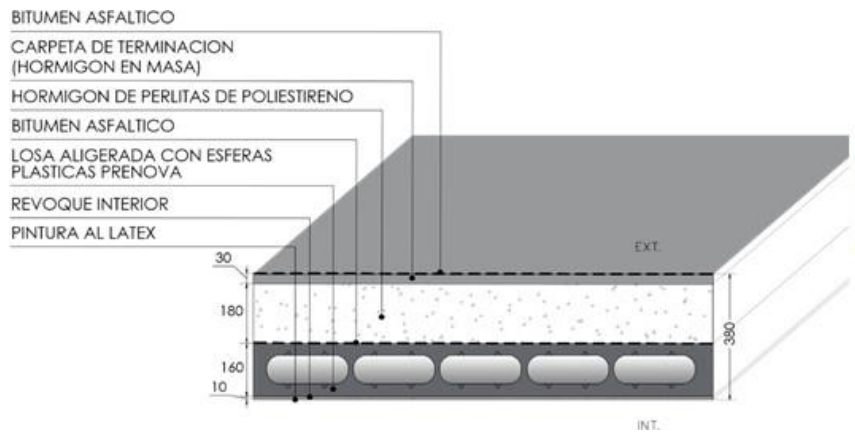

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,38 | 100% | 30,12 | 40,08 | 1,83 | 4577 | 464 |
| INDIVIDUAL | 0,38 | 100% | 30,15 | 39,75 | 1,72 | 4577 | 446 |
| INC. FAMILIA | 100,00% | 0% | 100,10% | 99,19% | 93,99% | 100,01% | 96,12% |
| INC. MUNDIAL | 46,91% | 208% | 101,52% | 89,37% | 41,82% | 100,35% | 70,61% |

| PNV-002 | CU | PRENOVA |
|---|---|---|

CUBIERTA TRADICIONAL SOBRE LOSAS DE HORMIGON ARMADO ALIVIANADAS CON DISCOS PLASTICOS (PRENOVA)

## INDICE DE TRANSMITANCIA TERMICA "K"

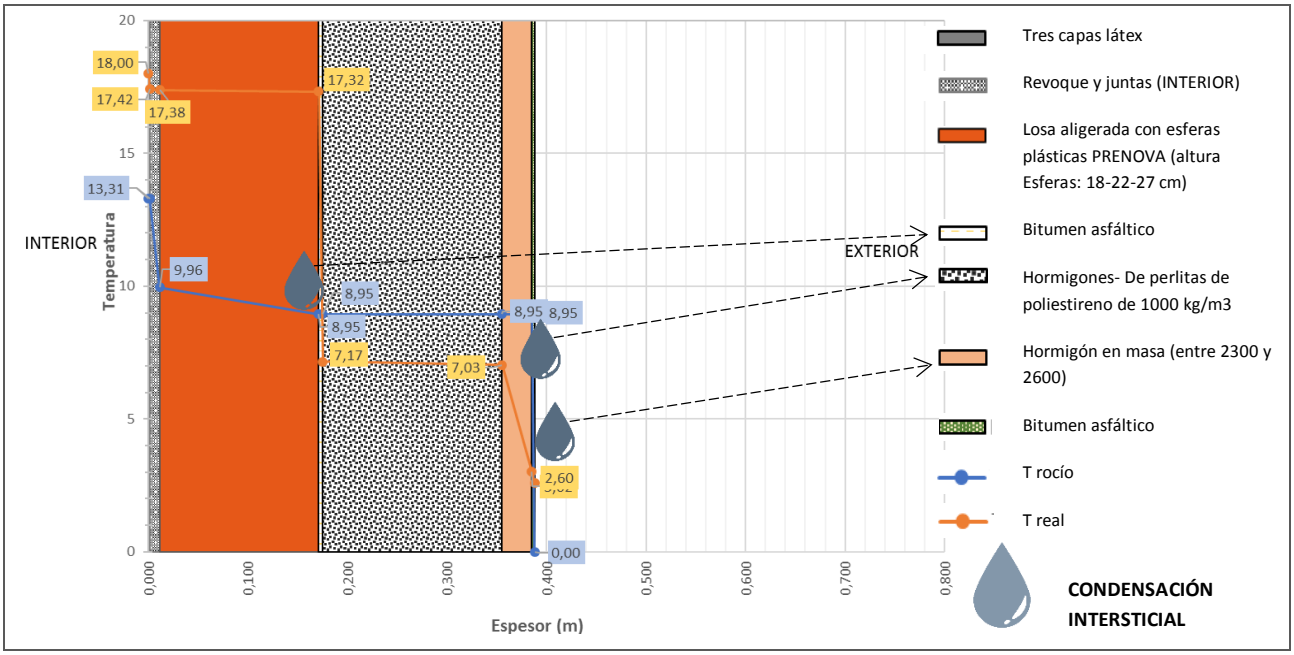
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,37 | 0,38 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



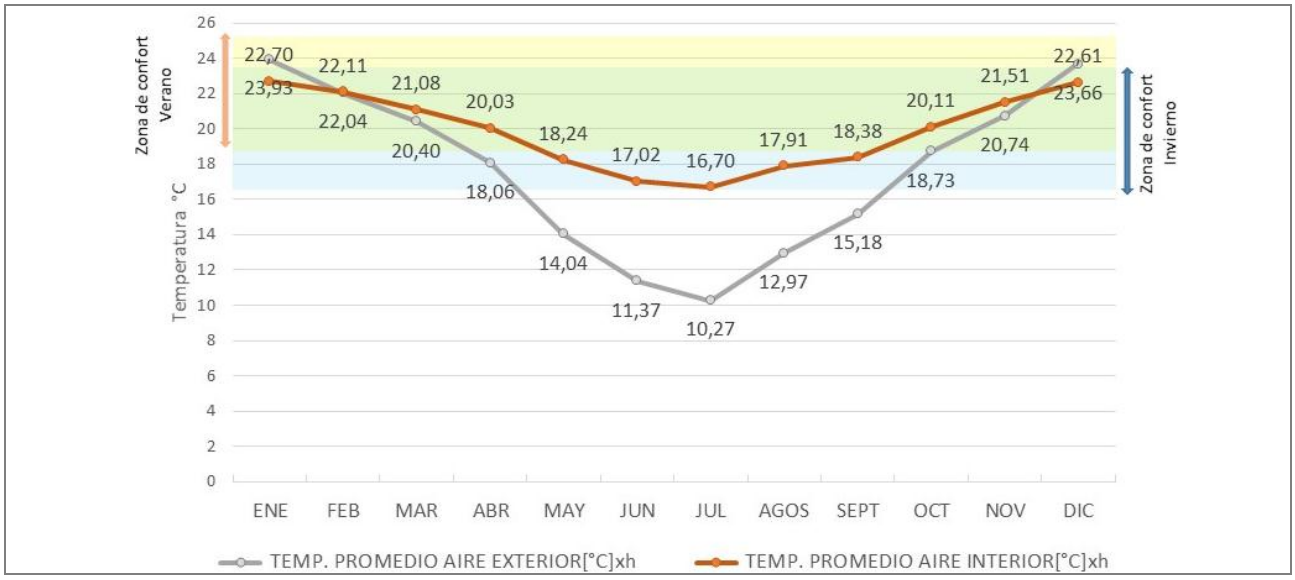

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 33,5 | 33,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **20,1** | **20,0** |
| | **Amortiguamiento:** | 0,001 | 0,001 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **18,4** | **7,9** |
| | **Amortiguamiento:** | 0,008 | 0,128 |

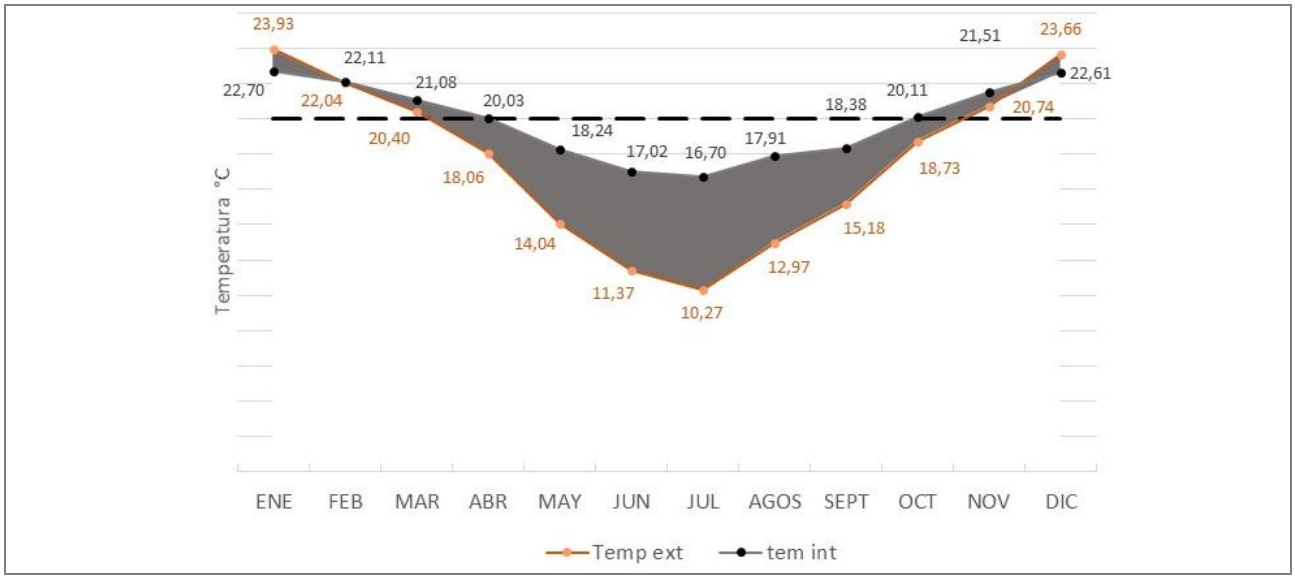
| PNV-002 | CU | PRENOVA |
|---|---|---|

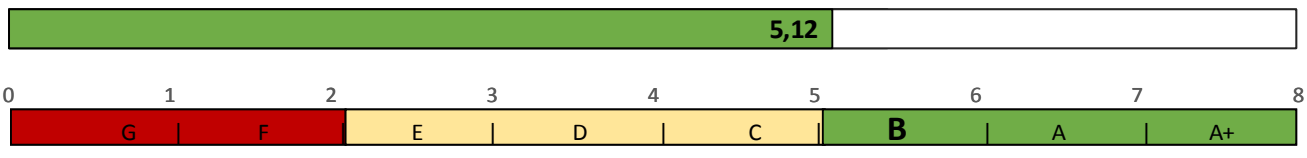
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,90** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,34** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



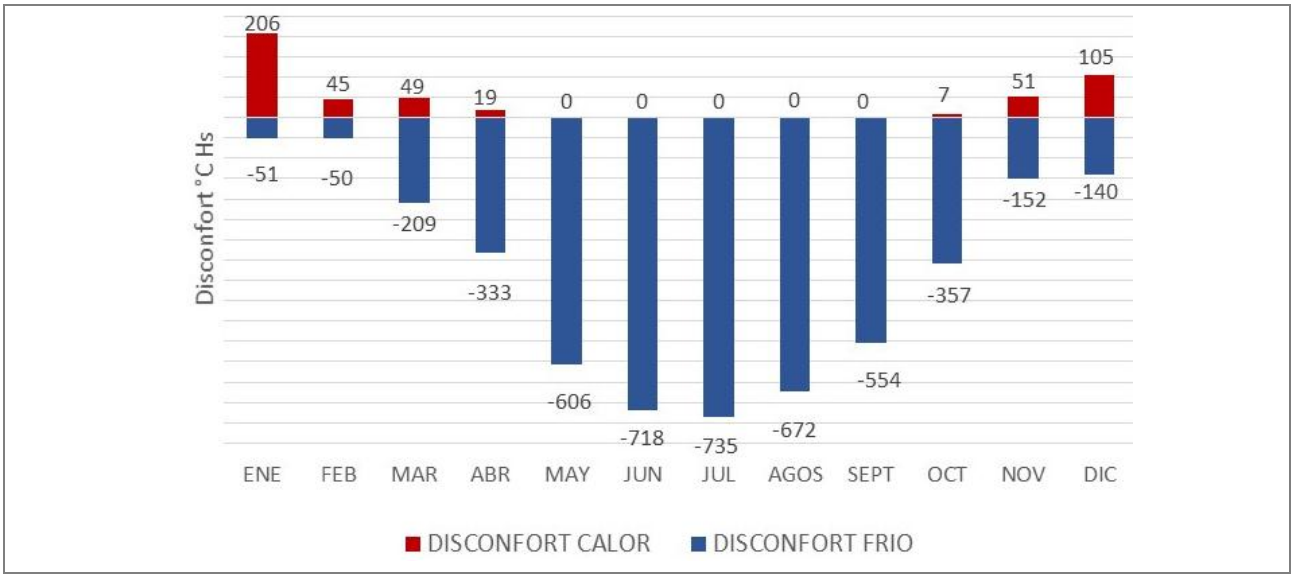




5,12 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| PNV-002 | CU | PRENOVA |
|---|---|---|

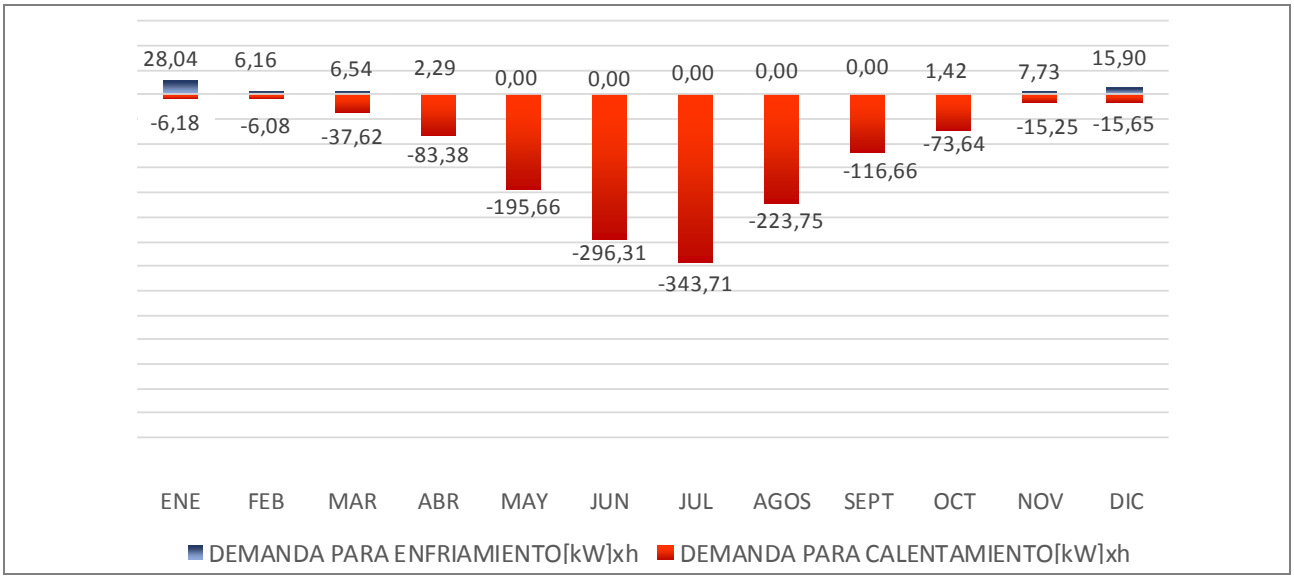
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **482** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.576** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.058** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

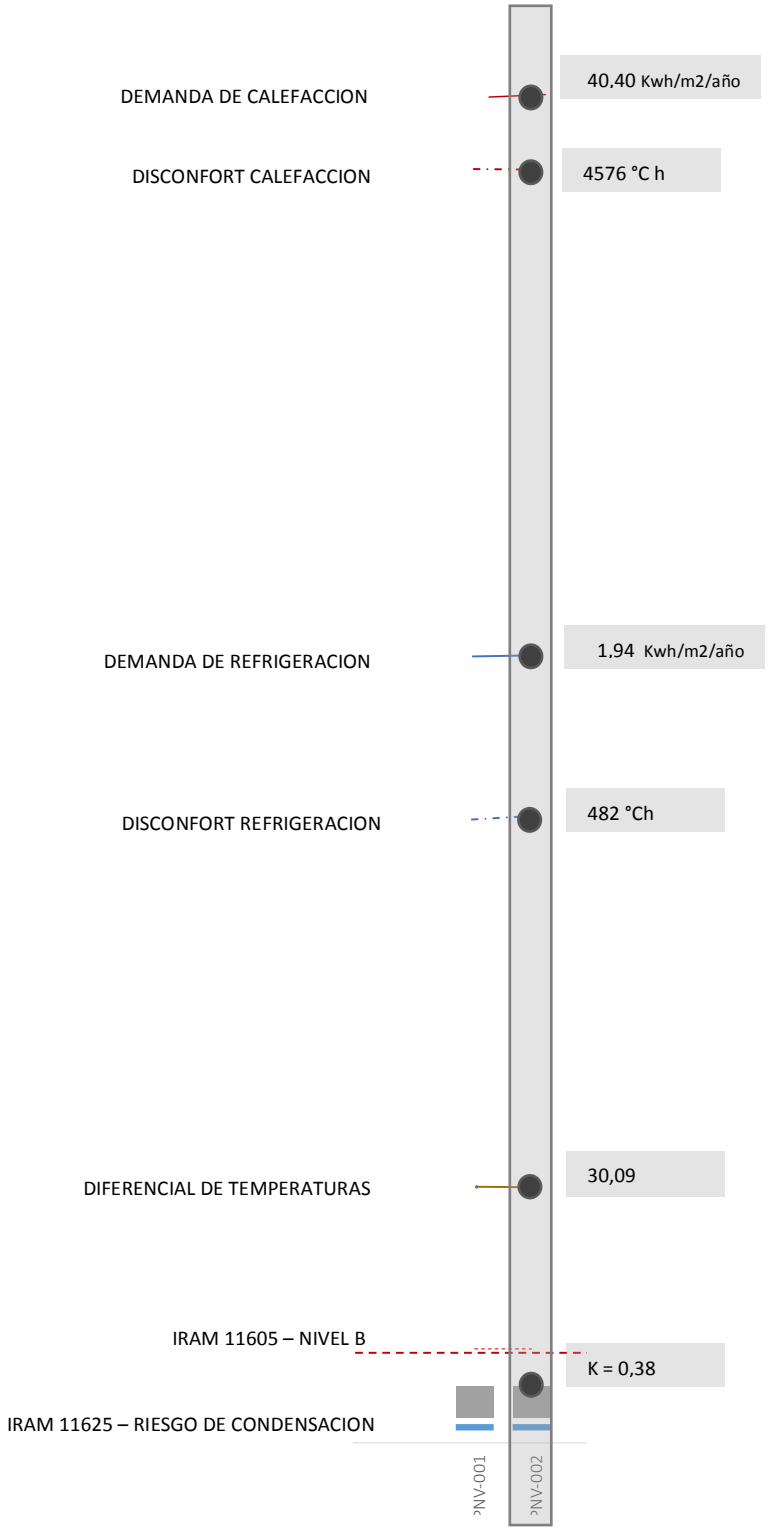



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **68,07** | kWh | 1,94 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.413,90** | kWh | 40,40 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.481,97** | kWh | **42,34** | kWh/m2/año |

| PNV-002 | CU | PRENOVA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 041 | N° 036 | N° 026 | N° 038 | N° 069 | N° 039 |



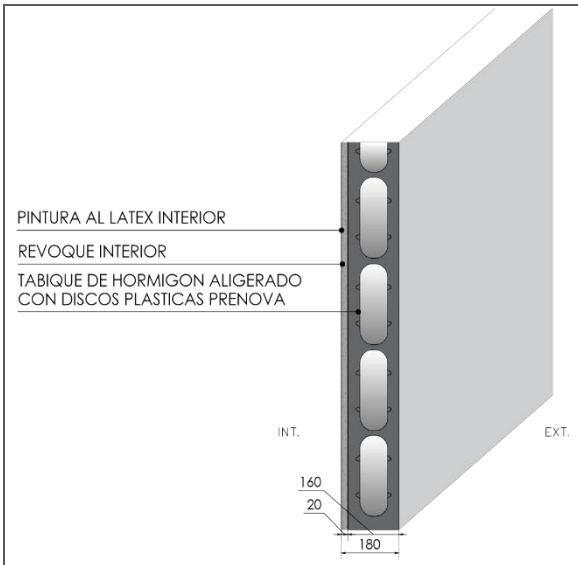

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,38 | 100% | 30,12 | 40,08 | 1,83 | 4577 | 464 |
| INDIVIDUAL | 0,38 | 100% | 30,09 | 40,4 | 1,94 | 4576 | 482 |
| INC. FAMILIA | 100,00% | 0% | 99,90% | 100,81% | 106,01% | 99,99% | 103,88% |
| INC. MUNDIAL | 46,91% | 208% | 101,32% | 90,83% | 47,16% | 100,33% | 76,31% |

| PNV-003 | MU | PRENOVA |
|---|---|---|

TABIQUES ESTRUCTURALES DE HORMIGON ARMADO PRENOVA CON TERMINACION A LA VISTA

## INDICE DE TRANSMITANCIA TERMICA "K"

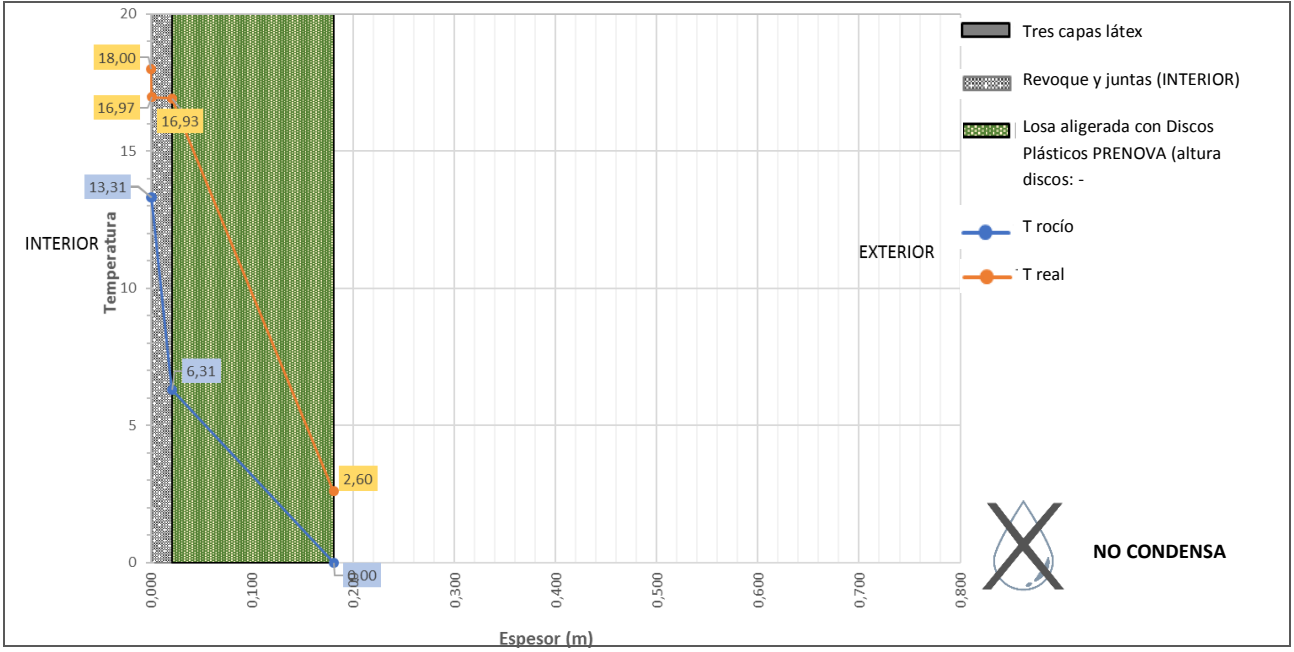
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,51 | 0,51 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



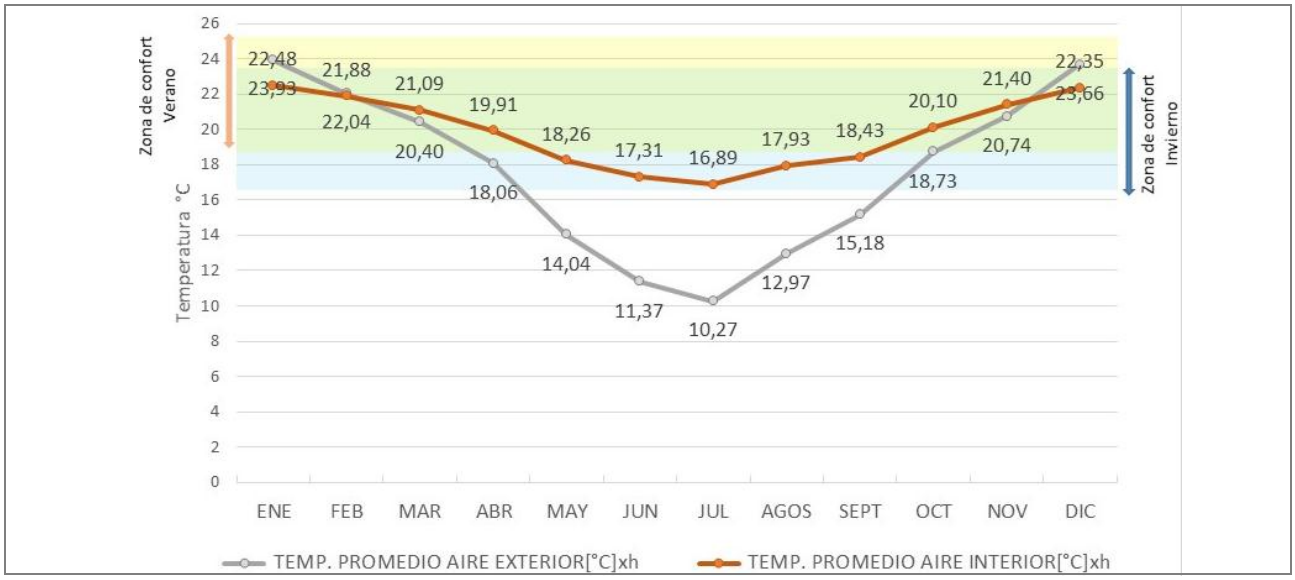

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 4,3 | Invierno 4,3 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,1** | **5,1** |
| | **Amortiguamiento:** | 0,150 | 0,150 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **1,4** | **4,9** |
| | **Amortiguamiento:** | 0,693 | 0,276 |

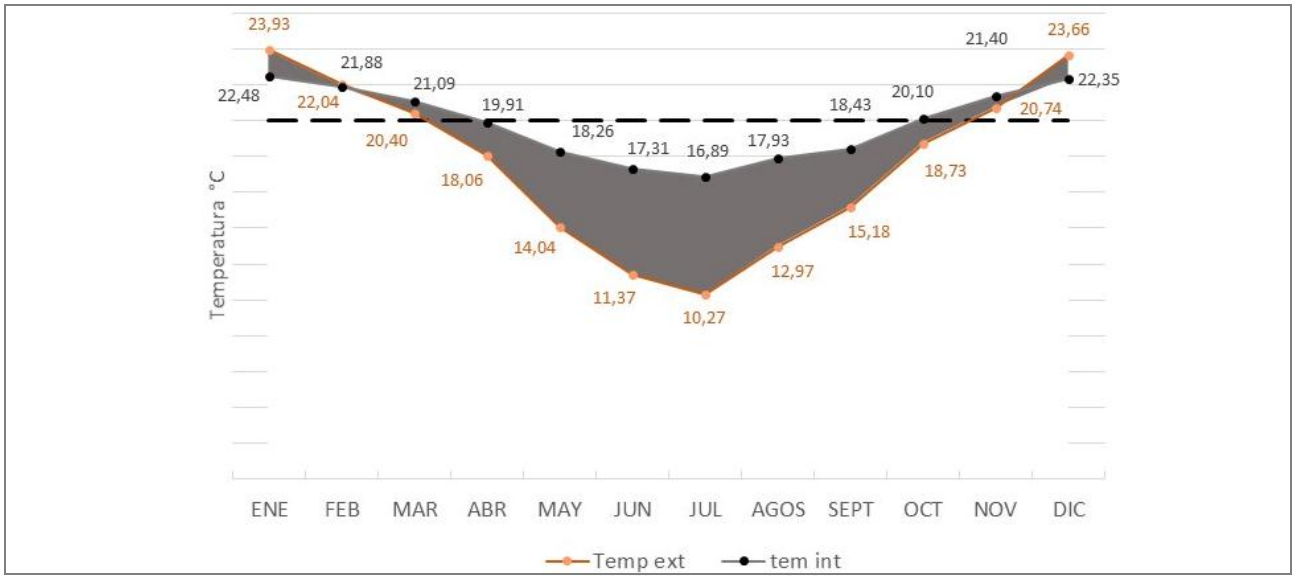
| PNV-003 | MU | PRENOVA |
|---|---|---|

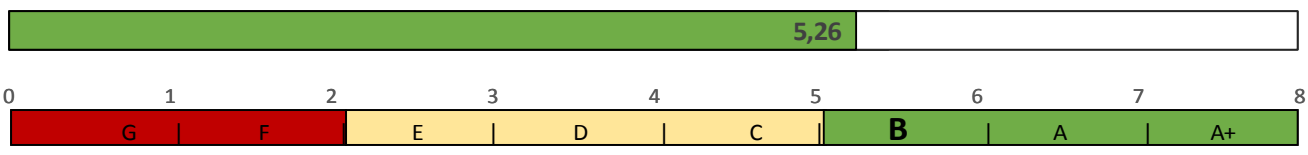
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,83** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,58** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



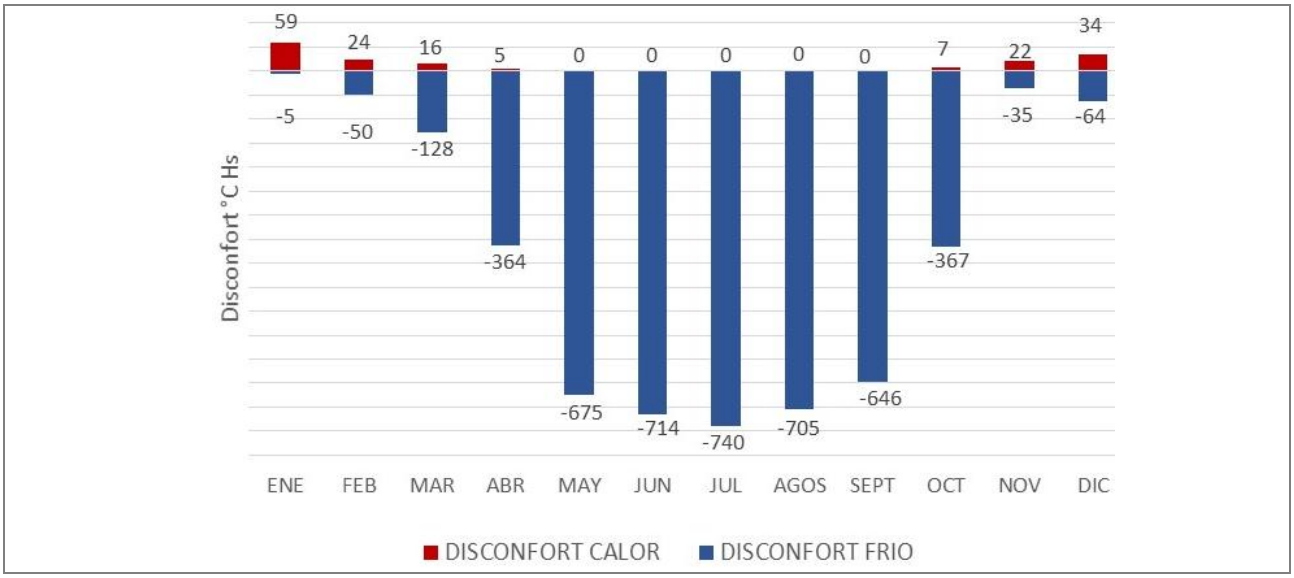




5,26 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| PNV-003 | MU | PRENOVA |
|---|---|---|

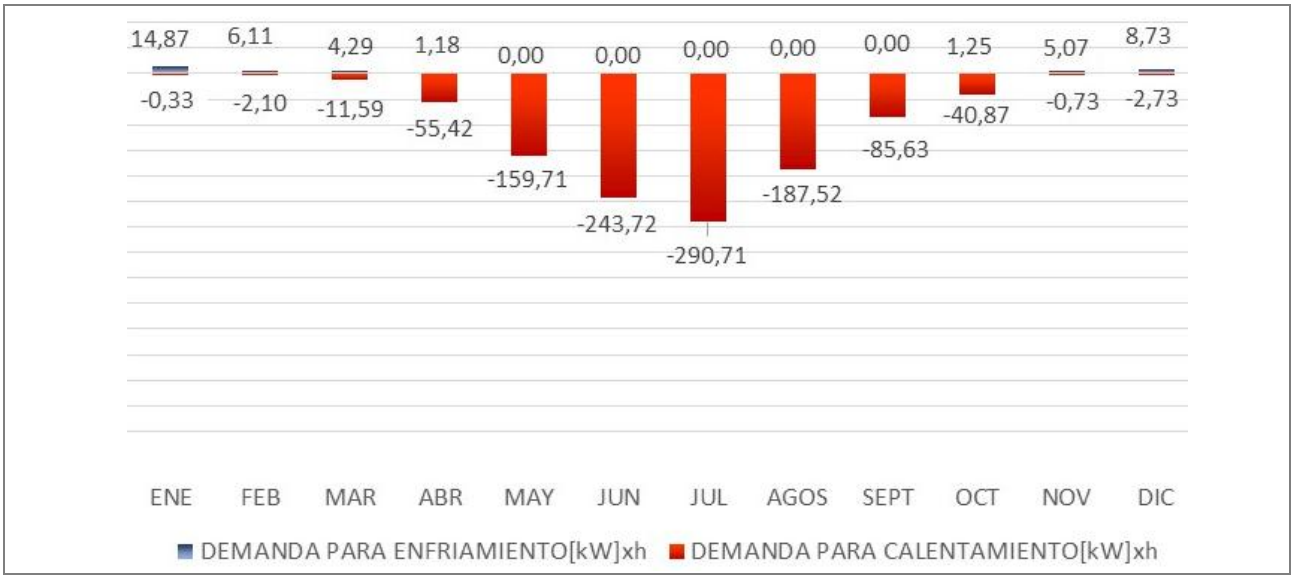
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **168** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.493** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.661** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **41,50** | kWh | 1,19 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.081,08** | kWh | 30,89 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.122,58** | kWh | **32,07** | kWh/m2/año |

| PNV-003 | MU | PRENOVA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 126 | N° 122 | N° 094 | N° 056 | N° 051 | N° 040 |

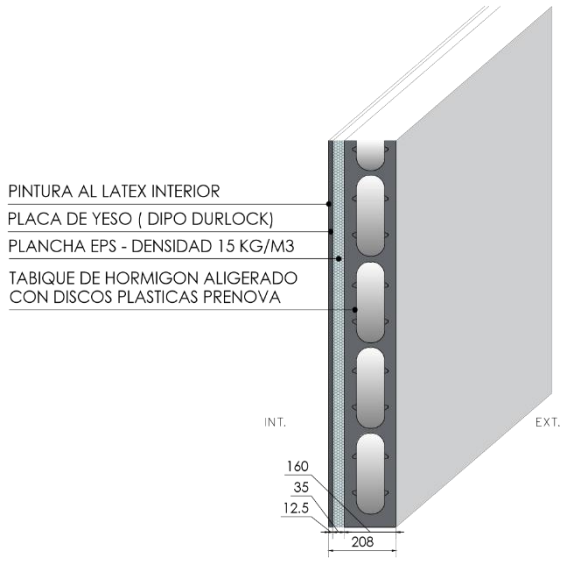



| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,43 | 0% | 31,26 | 29,87 | 1,44 | 4519 | 186 |
| INDIVIDUAL | 0,51 | 0% | 30,92 | 30,89 | 1,19 | 4493 | 168 |
| INC. FAMILIA | 120,00% | 0,00% | 98,91% | 103,43% | 82,93% | 99,42% | 90,32% |
| INC. MUNDIAL | 42,88% | 0,00% | 100,34% | 75,11% | 19,83% | 100,70% | 32,87% |

| PNV-004 | MU | PRENOVA |
|---|---|---|
| TABIQUES ESTRUCTURALES CON AISLACION TERMICA PRENOVA. | | |

## INDICE DE TRANSMITANCIA TERMICA "K"

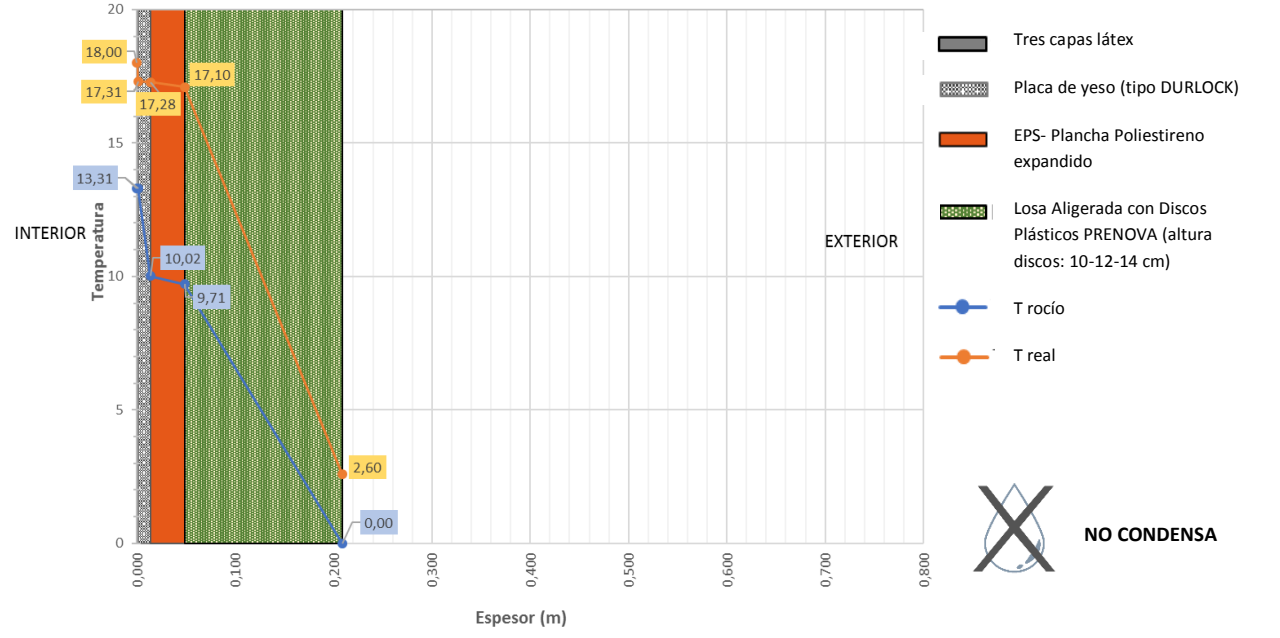
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,34 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,1 | 1,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,0** | **4,0** |
| | **Amortiguamiento:** | 0,228 | 0,228 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **0,9** | **3,8** |
| | **Amortiguamiento:** | 0,790 | 0,367 |

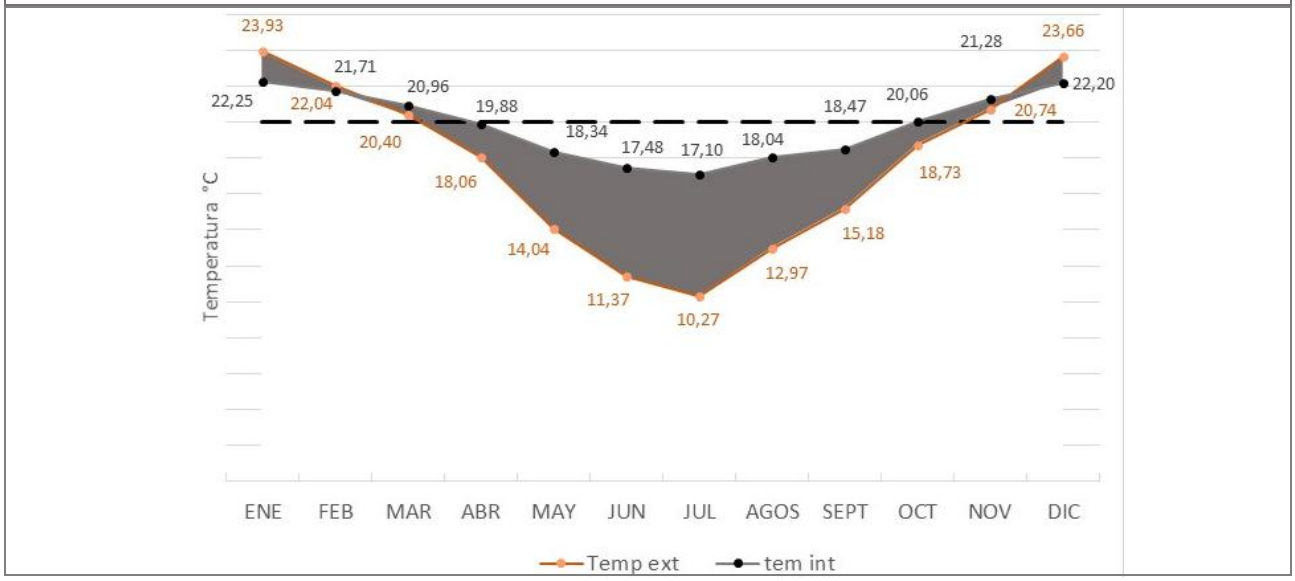
| PNV-004 | MU | PRENOVA |
|---|---|---|

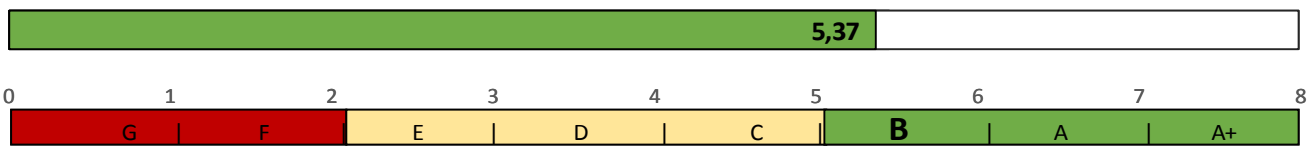
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,88** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,74** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



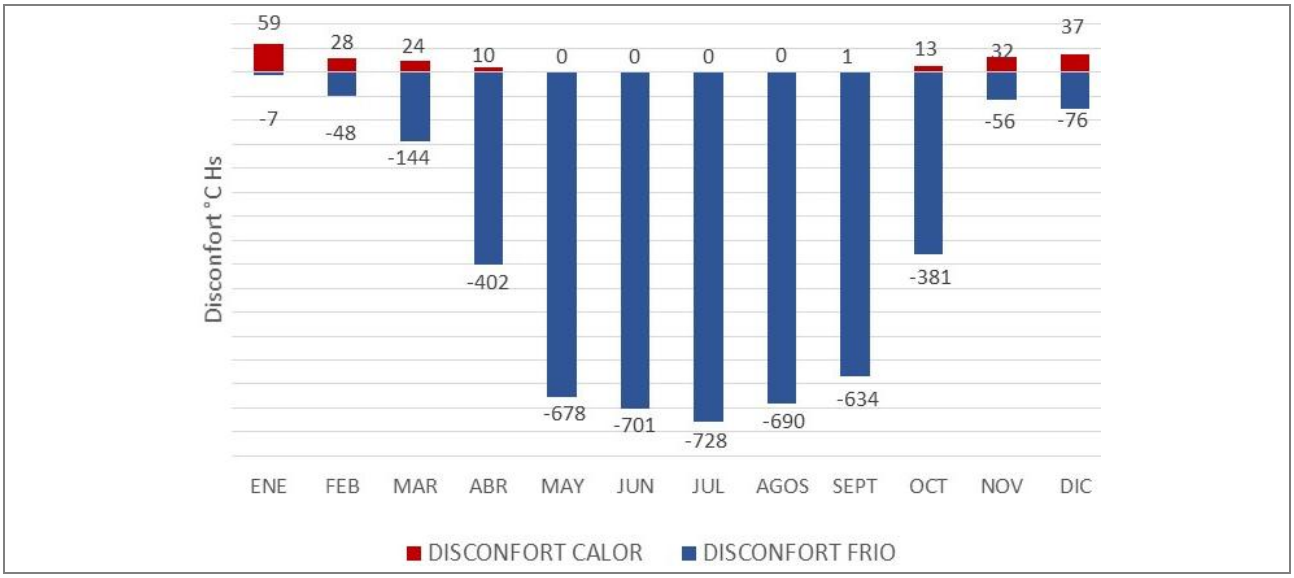




5,37 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| PNV-004 | MU | PRENOVA |
|---|---|---|

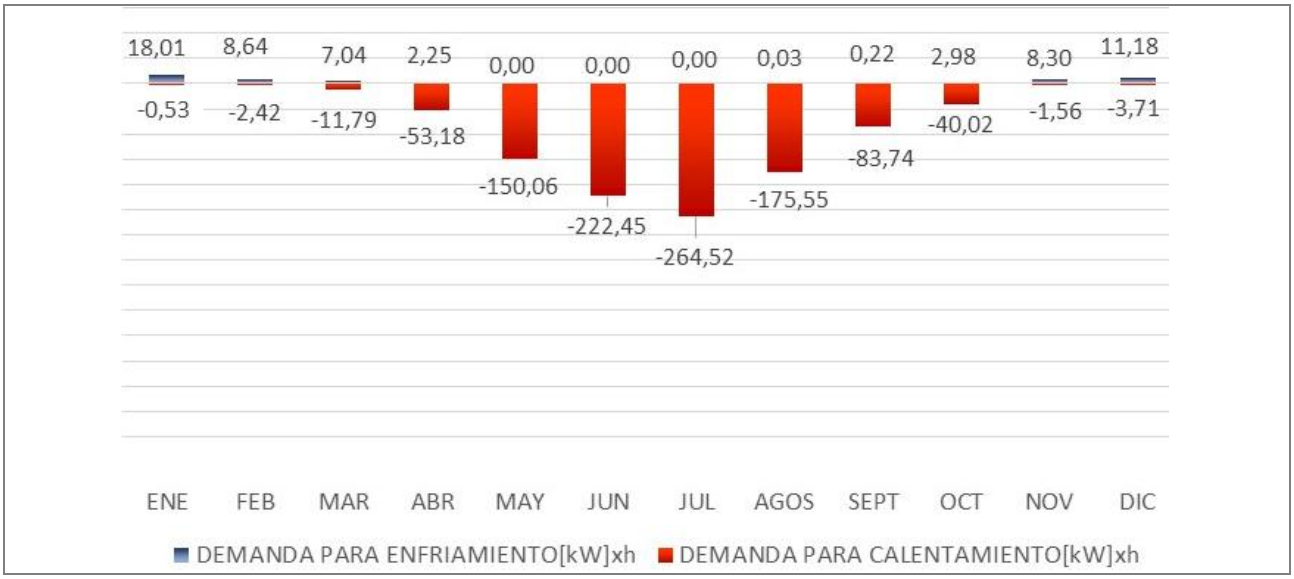
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **204** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.545** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.749** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

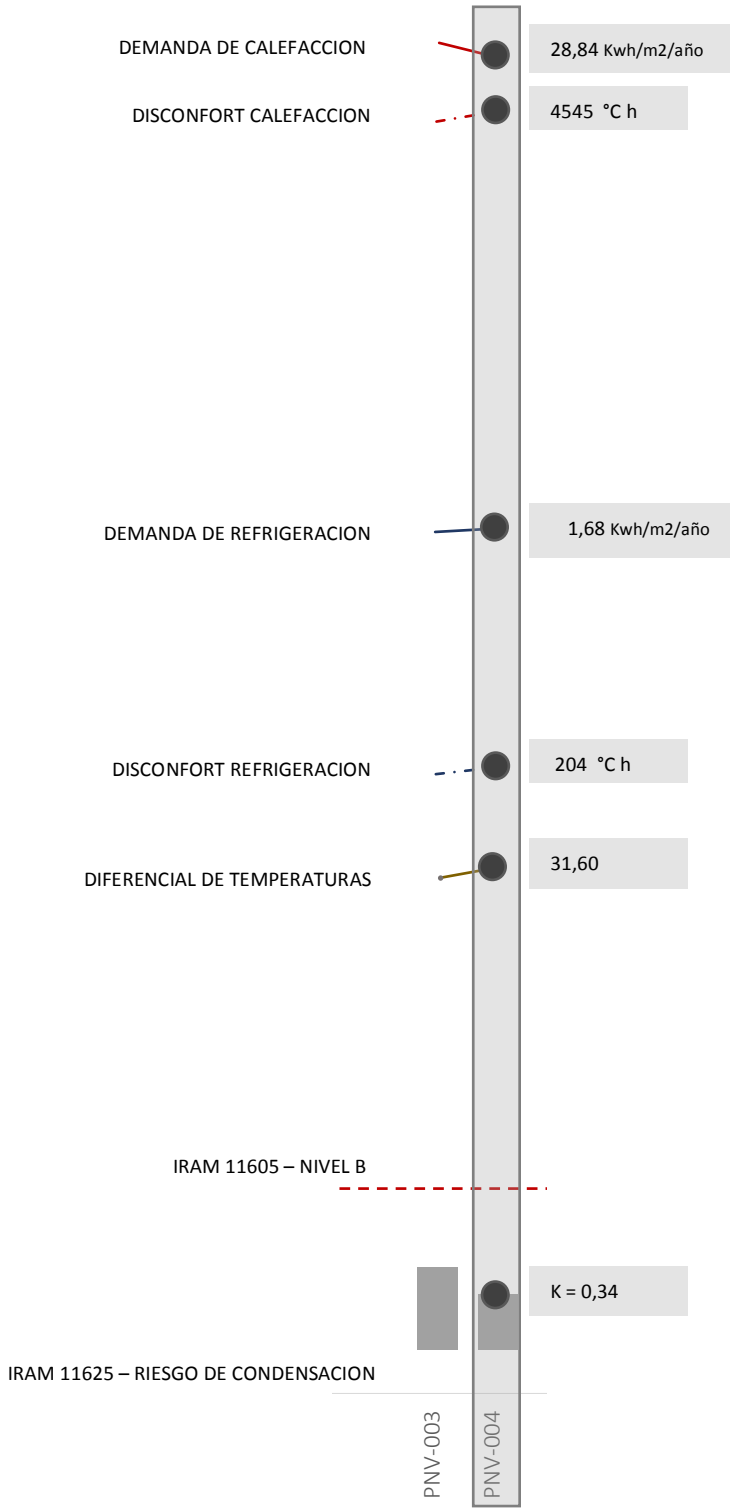



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **58,64** | kWh | 1,68 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.009,55** | kWh | 28,84 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.068,19** | kWh | **30,52** | kWh/m2/año |

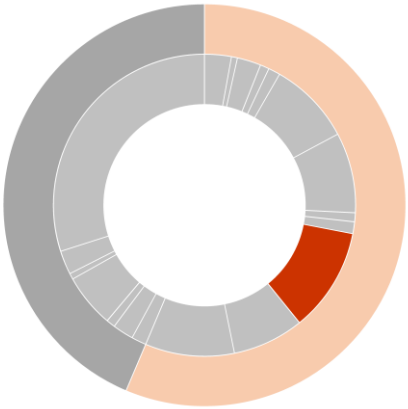
| PNV-004 | MU | PRENOVA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 036 | N° 033 | N° 023 | N° 131 | N° 101 | N° 098 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,43 | 0% | 31,26 | 29,87 | 1,44 | 4519 | 186 |
| INDIVIDUAL | 0,34 | 0% | 31,60 | 28,84 | 1,68 | 4545 | 204 |
| INC. FAMILIA | 80,00% | 0,00% | 101,09% | 96,57% | 117,07% | 100,58% | 109,68% |
| INC. MUNDIAL | 28,59% | 0,00% | 102,55% | 70,13% | 27,99% | 101,87% | 39,91% |



# HORMIGON CELULAR CURADO EN AUTOCLAVE

**HCCA 001**: MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (RETAK 510) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

**HCCA 002** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (RETAK 510) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DE YESO.

**HCCA 003:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (RETAK 510) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

**HCCA 004:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (RETAK 510) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

**HCCA 005:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (RETAK 510) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK

**HCCA 006:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (RETAK 510) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

**HCCA 007:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (RETAK 510) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

**HCCA 008:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (RETAK 510) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

**HCCA 009**: MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (LIKA 660) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

**HCCA 010:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (LIKA 660) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

**HCCA 011:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (LIKA 660) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

**HCCA 012:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (LIKA 660) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

**HCCA 013:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (LIKA 660) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

**HCCA 014:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (LIKA 660) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

**HCCA 015:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (LIKA 660) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

**HCCA 016:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (LIKA 660) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

**HCCA 017:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (LIKA 660) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

**HCCA 018:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (AIRBLOCK 580) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

**HCCA 019:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

**HCCA 020:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

**HCCA 021:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (AIRBLOCK 580) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

**HCCA 022**: MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

**HCCA 023:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

**HCCA 024:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (AIRBLOCK 580) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

**HCCA 025:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

**HCCA 026:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK

**HCCA 027:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (BRIMAX 500) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

**HCCA 028:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (BRIMAX 500) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

**HCCA 029:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (BRIMAX 500) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

**HCCA 030:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (BRIMAX 500) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

**HCCA 031:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (BRIMAX 500) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR

**HCCA 032:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (BRIMAX 500) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK

**HCCA 033:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (BRIMAX 500) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR

**HCCA 034:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (BRIMAX 500) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

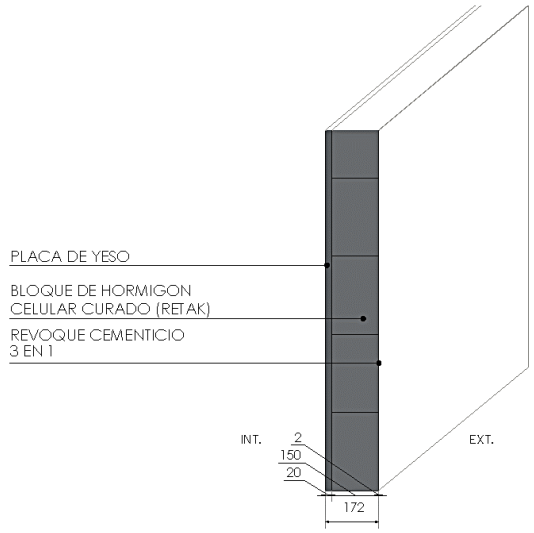
**HCCA035:** MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (BRIMAX 500) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

| HCCA-001 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (RETAK 510) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

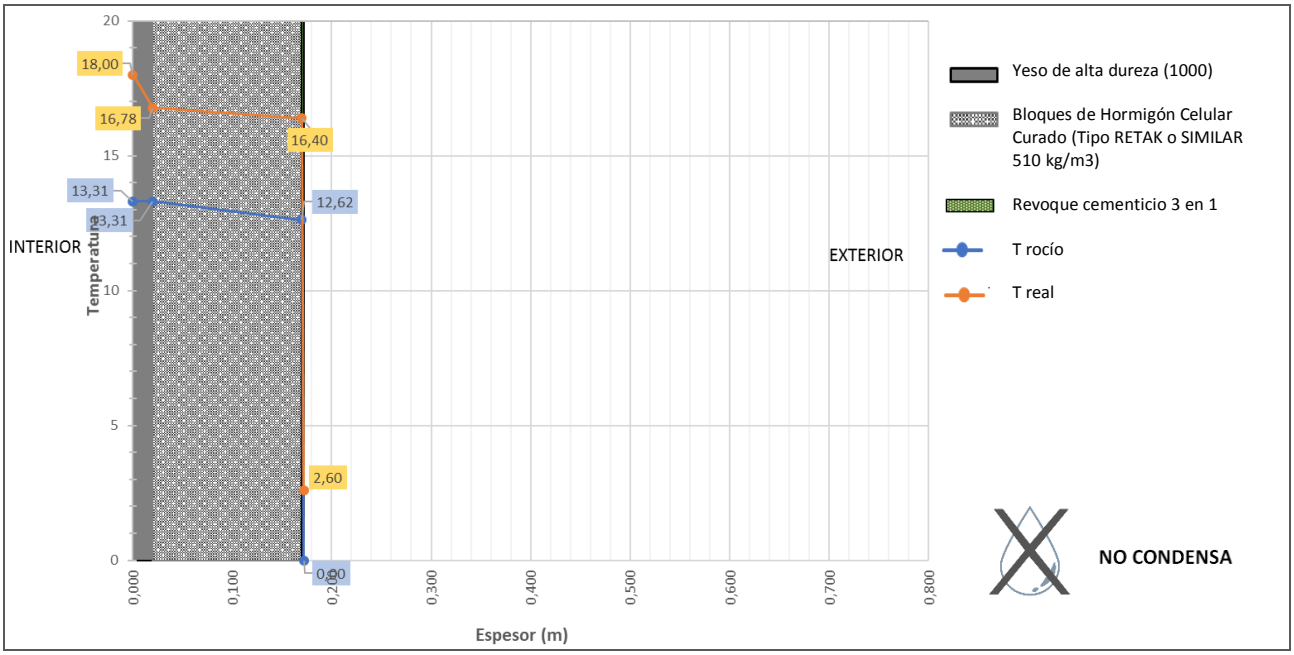
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,61 | 0,61 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



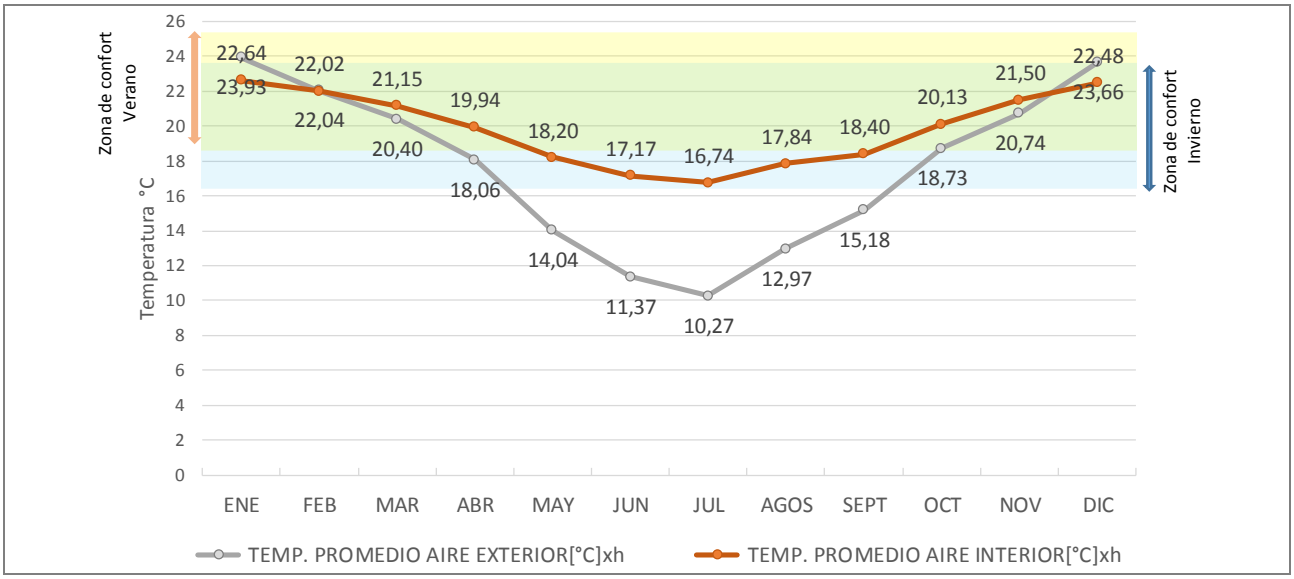

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 16,3 | Invierno 20,0 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,2** | **9,1** |
| | **Amortiguamiento:** | 0,048 | 0,034 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,3** | **6,8** |
| | **Amortiguamiento:** | 0,194 | 0,168 |

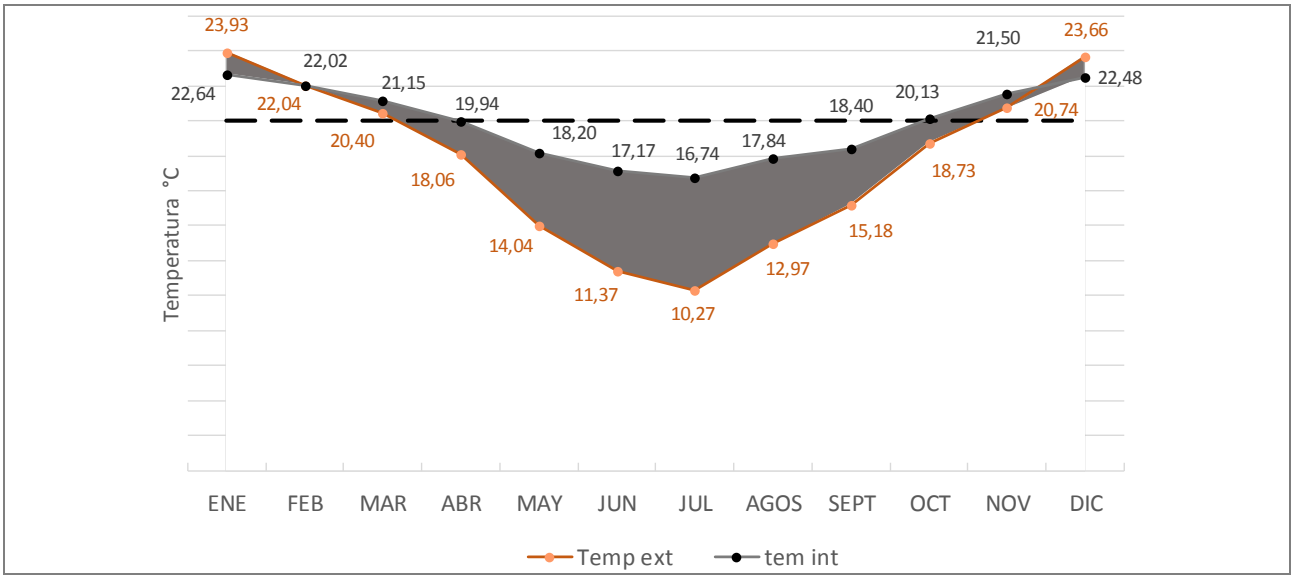
| HCCA-001 | MU | HCCA |
|---|---|---|

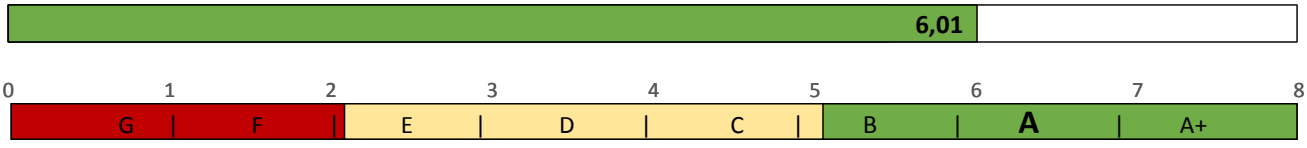
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,83** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,38** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



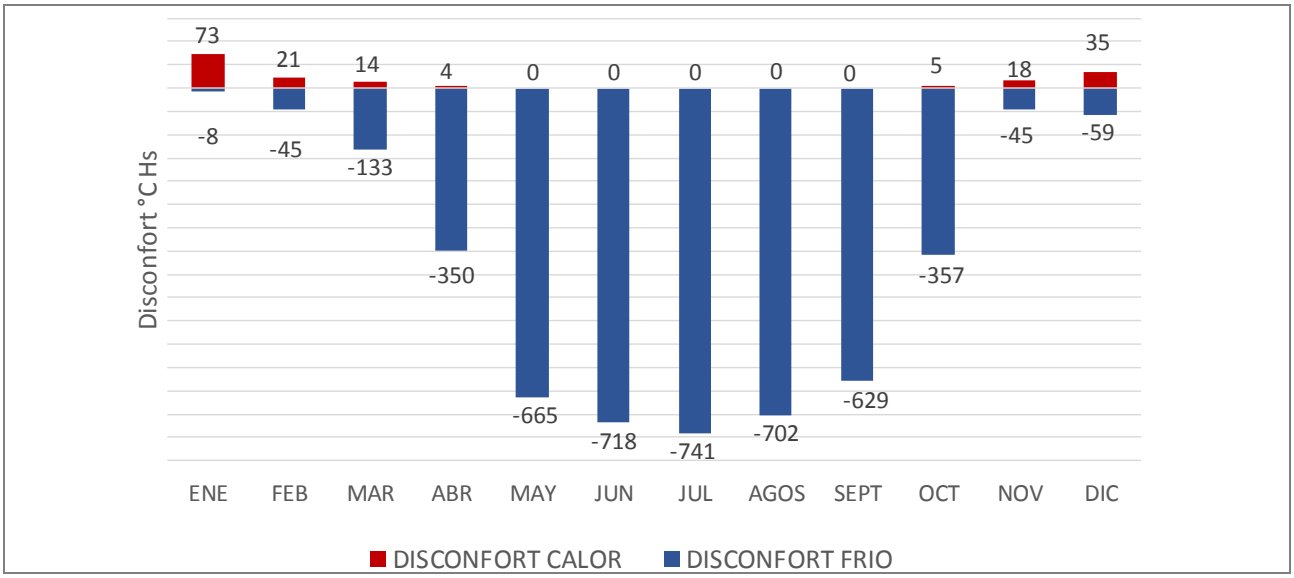




6,01 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,75

| HCCA-001 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

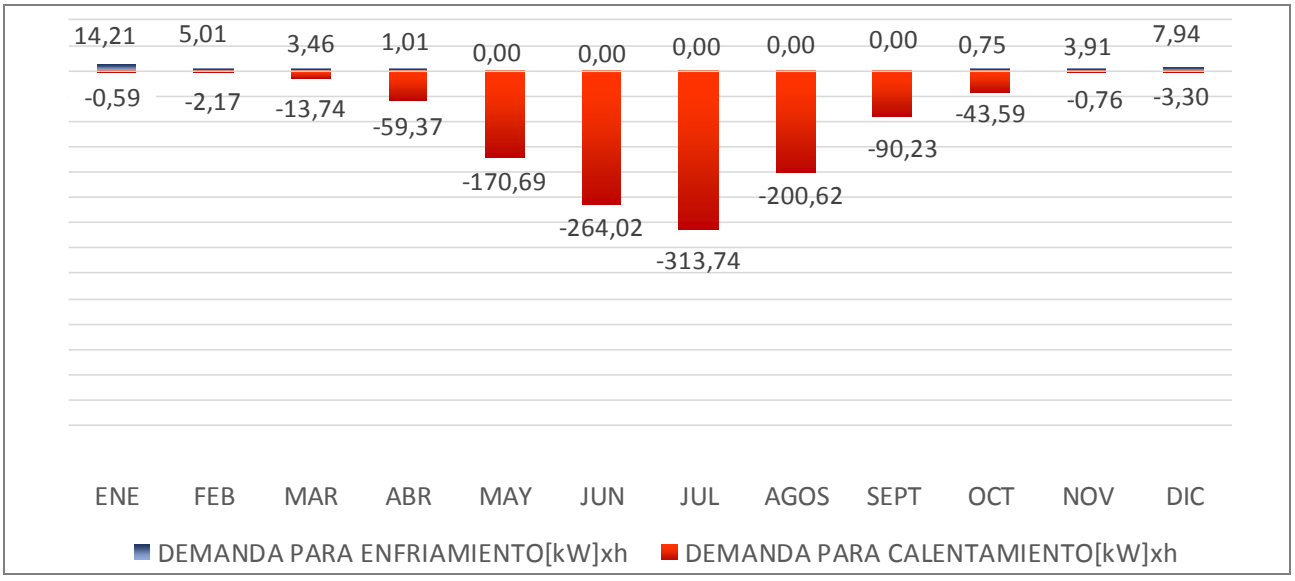
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **170** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.453** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.622** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

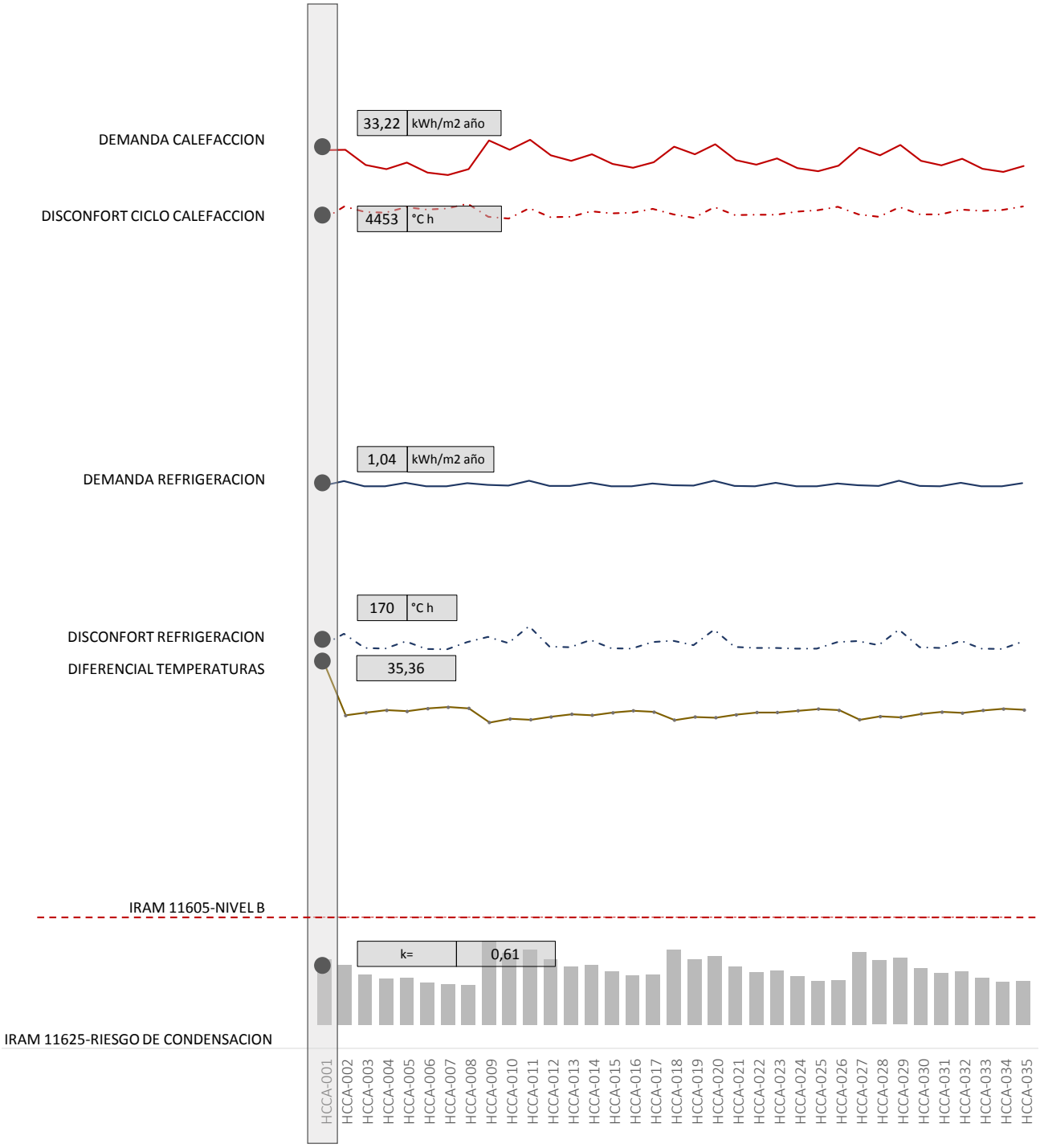



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **36,27** | kWh | 1,04 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.162,82** | kWh | 33,22 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.199,09** | kWh | **34,26** | kWh/m2/año |

| HCCA-001 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 144 | N° 004 | N° 134 | N° 031 | N° 018 | N° 045 |



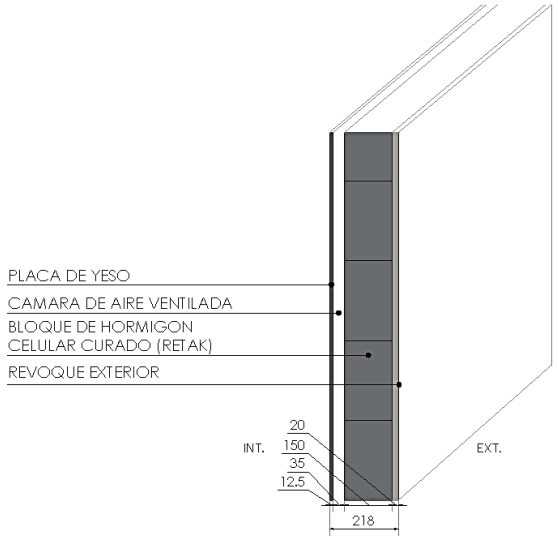

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506 | 179 |
| INDIVIDUAL | 0,61 | 0% | 35,36 | 33,22 | 1,04 | 4453 | 170 |
| INC. FAMILIA | 115,48% | 0% | 113,99% | 105,92% | 85,95% | 98,82% | 95,11% |
| INC. MUNDIAL | 51,29% | 0% | 114,75% | 80,78% | 17,33% | 99,81% | 33,26% |

| HCCA-002 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (RETAK 510) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DE YESO.

## INDICE DE TRANSMITANCIA TERMICA "K"

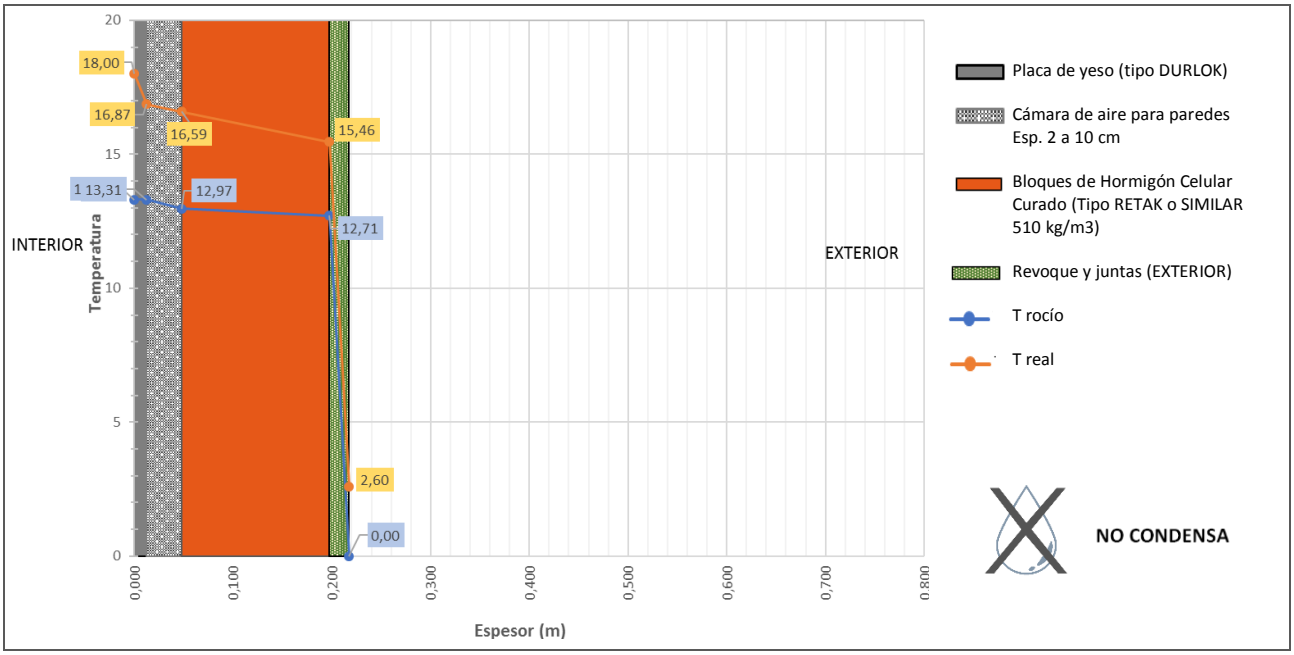
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,56 | 0,56 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



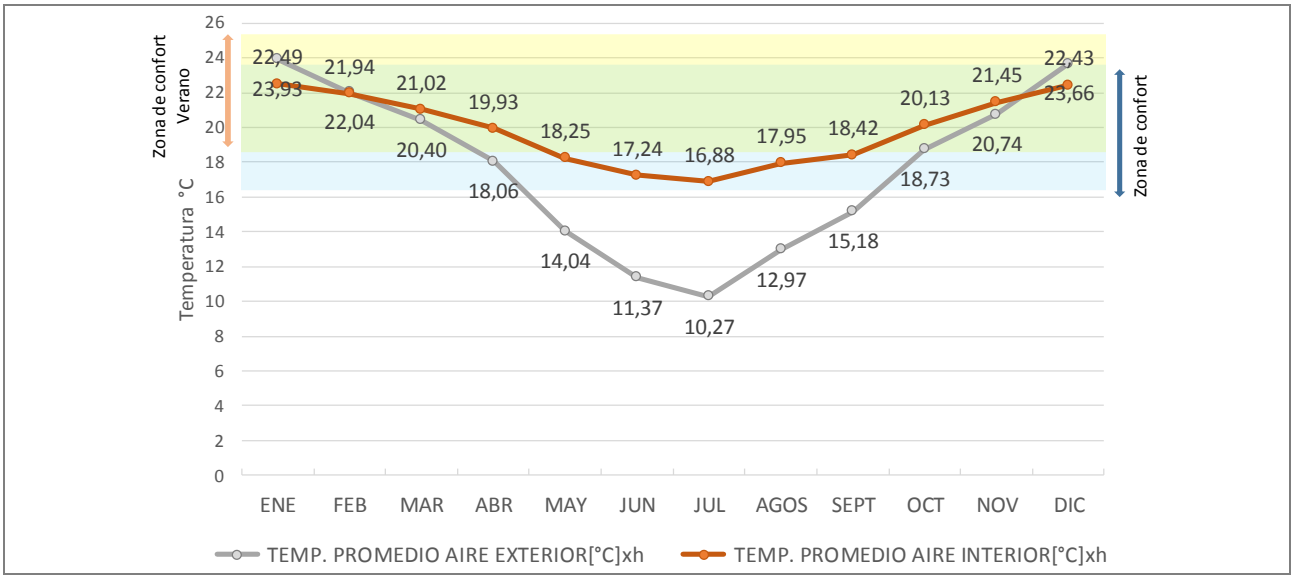

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 19,3 | 16,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,8** | **9,0** |
| | **Amortiguamiento:** | 0,027 | 0,036 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,0** | **6,4** |
| | **Amortiguamiento:** | 0,122 | 0,189 |

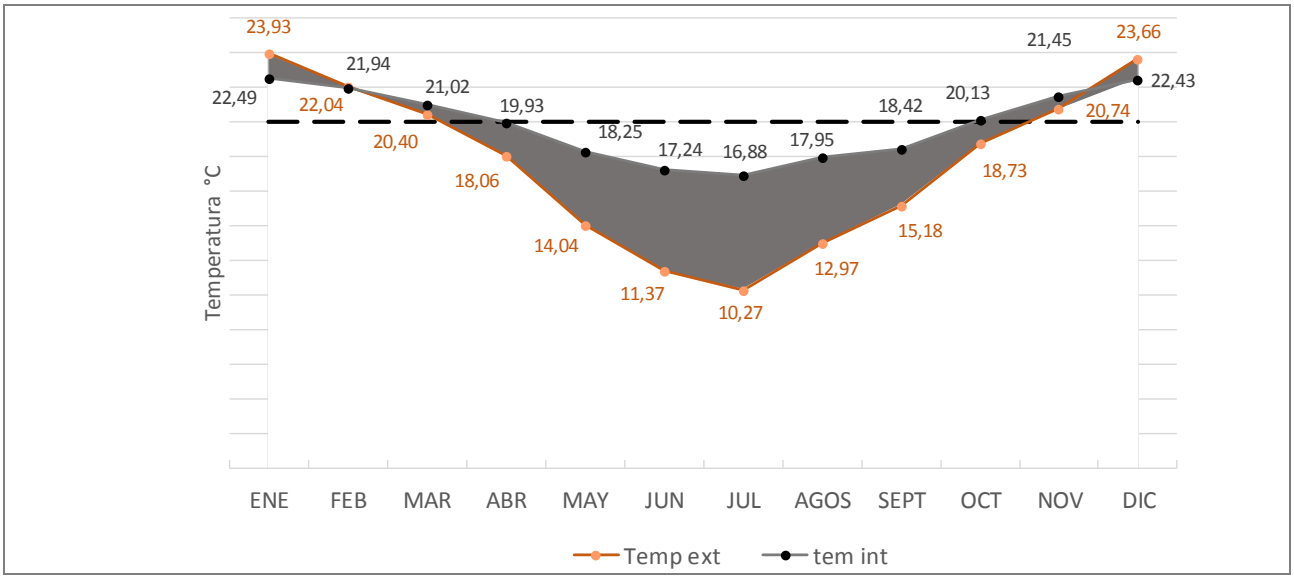
| HCCA-002 | MU | HCCA |
|---|---|---|

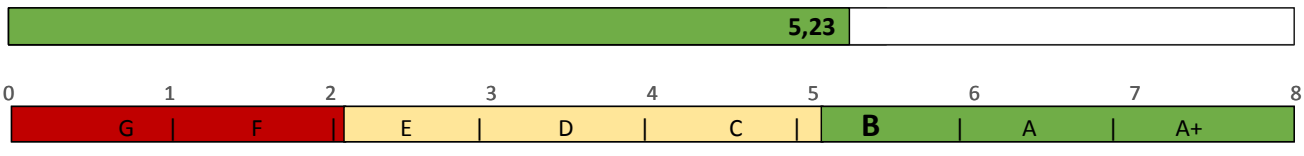
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/15 18:00 hs | **25,35** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **14,02** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



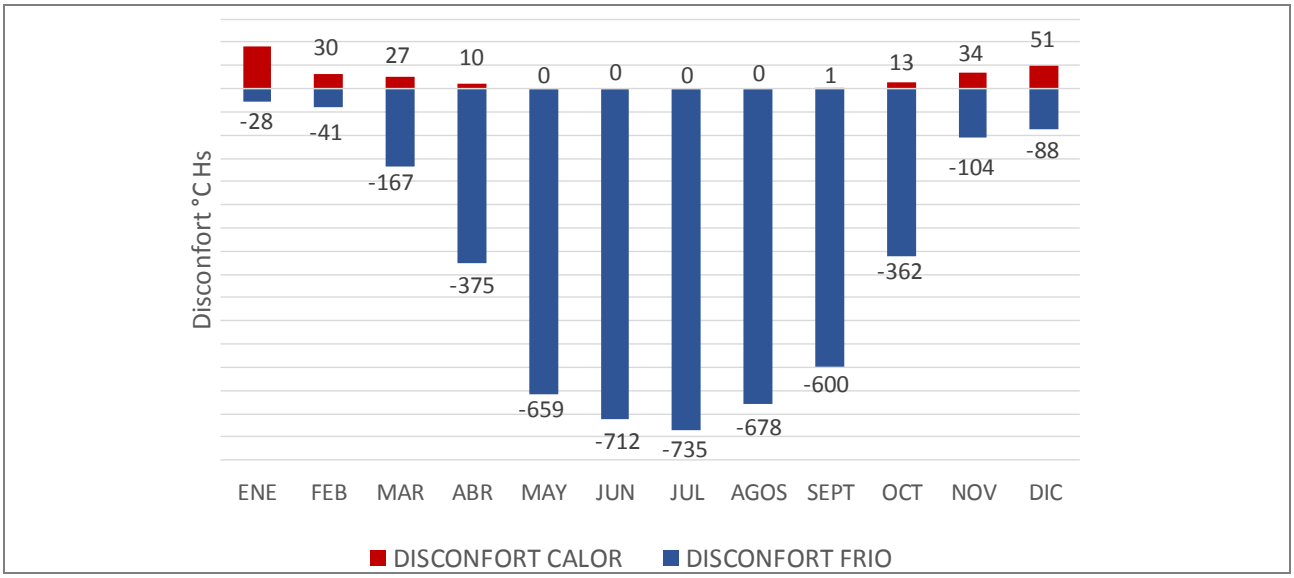




5,23 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| HCCA-002 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

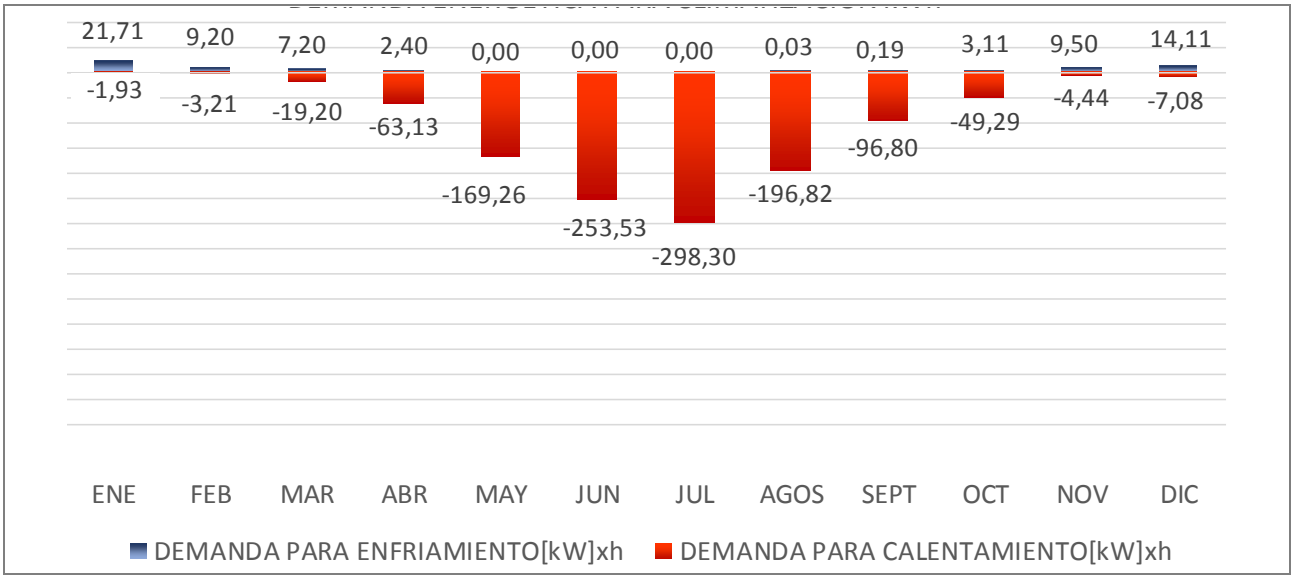
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **257** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.548** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.805** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

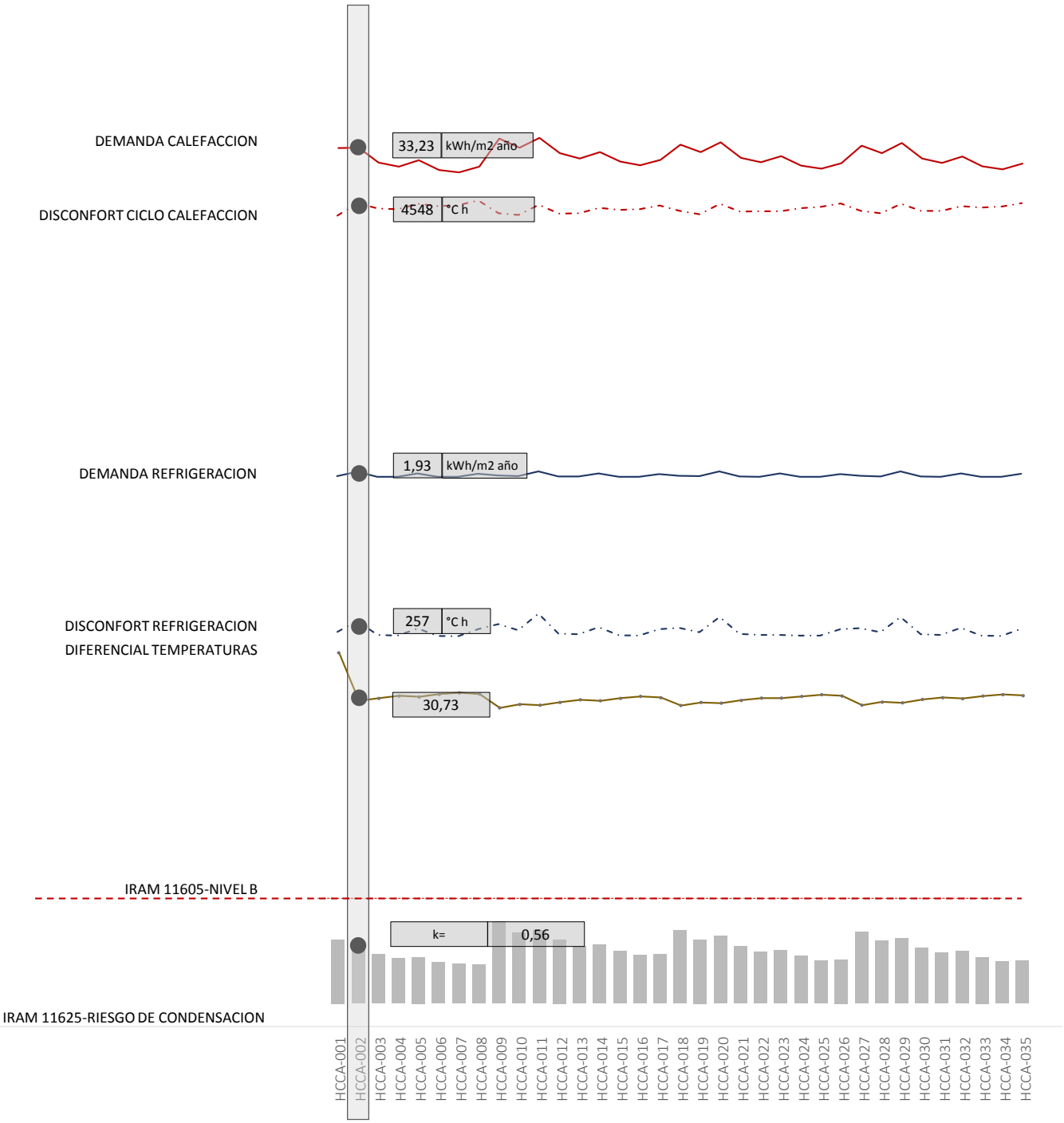



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **67,45** | kWh | 1,93 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.162,99** | kWh | 33,23 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.230,44** | kWh | **35,16** | kWh/m2/año |

| HCCA-002 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 137 | N° 140 | N° 135 | N° 145 | N° 102 | N° 132 |



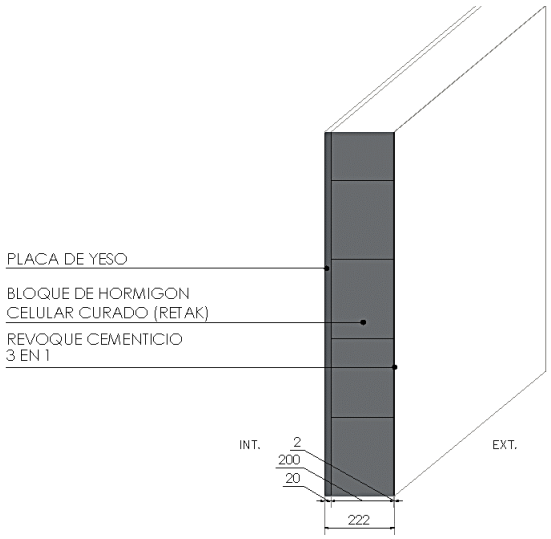

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,56 | 0% | 30,73 | 33,23 | 1,93 | 4548,00 | 257,00 |
| INC. FAMILIA | 106,01% | 0% | 99,06% | 105,95% | 159,50% | 100,93% | 143,79% |
| INC. MUNDIAL | 47,08% | 0% | 99,73% | 80,80% | 32,16% | 101,94% | 50,28% |

| HCCA-003 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (RETAK 510) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

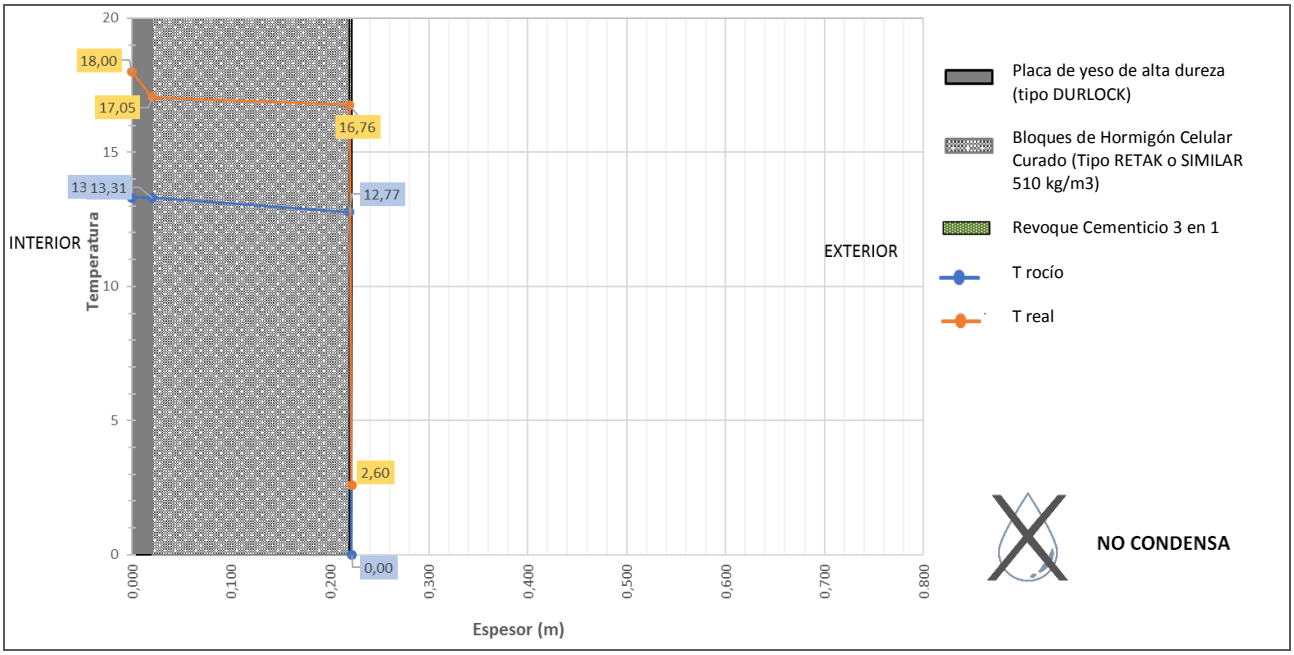
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,47 | 0,47 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



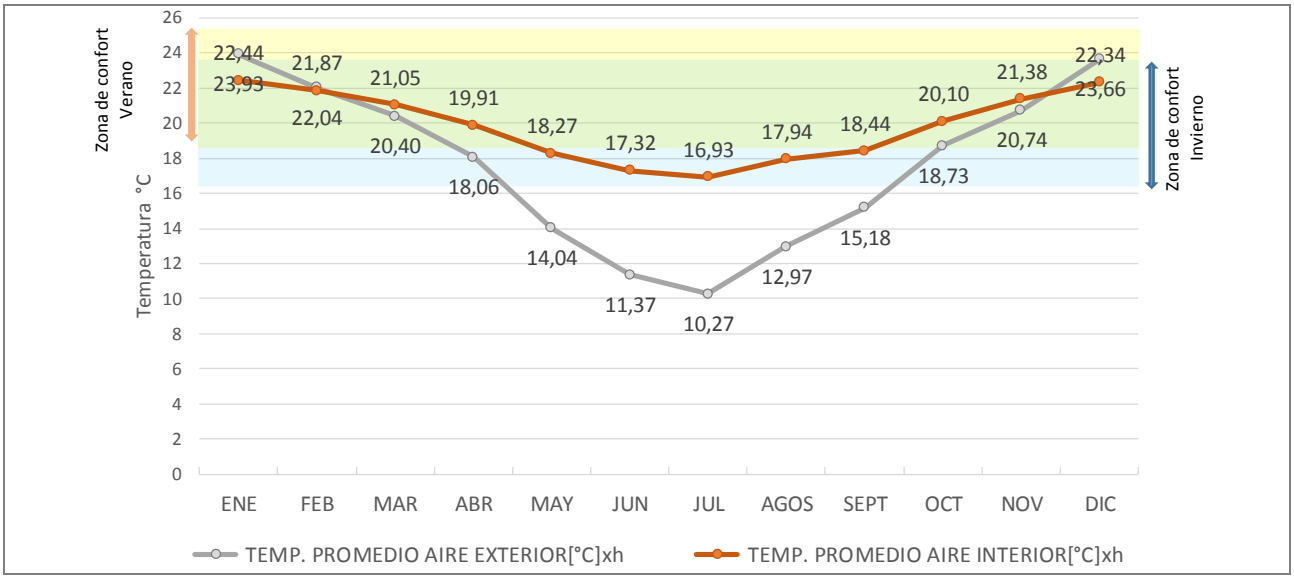

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 16,3 | 19,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **10,9** | **11,8** |
| | **Amortiguamiento:** | 0,018 | 0,013 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,0** | **8,6** |
| | **Amortiguamiento:** | 0,122 | 0,104 |

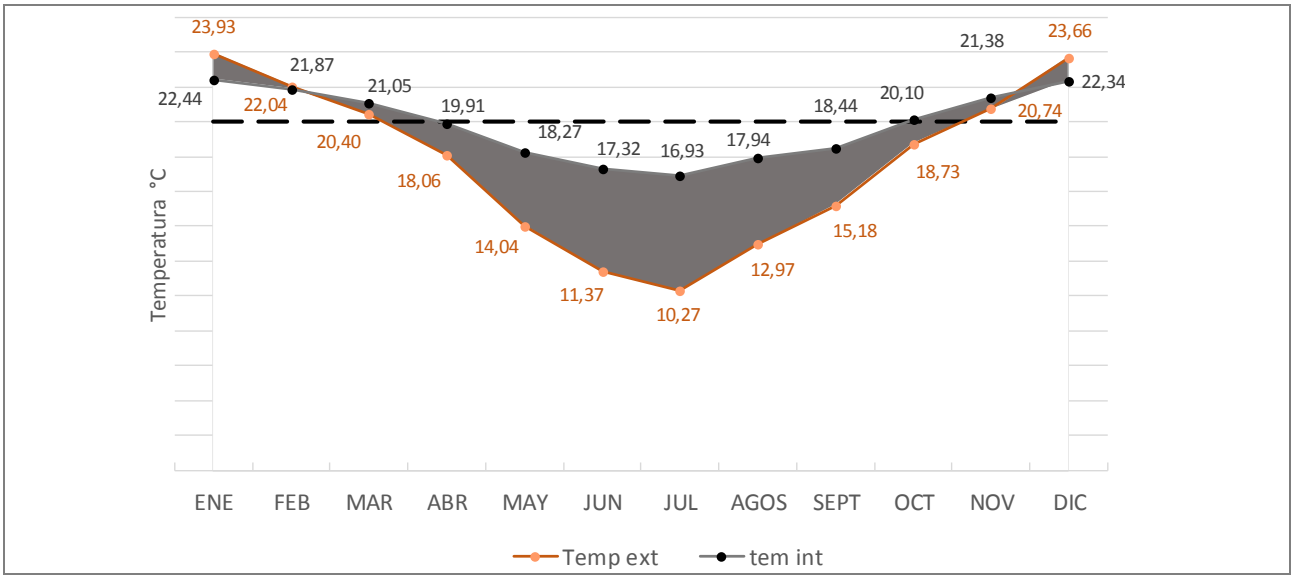
| HCCA-003 | MU | HCCA |
|---|---|---|

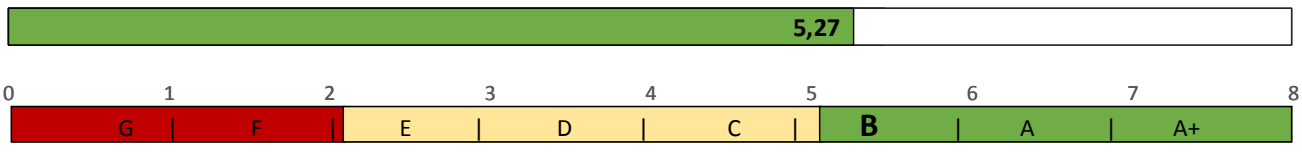
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,55** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,71** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



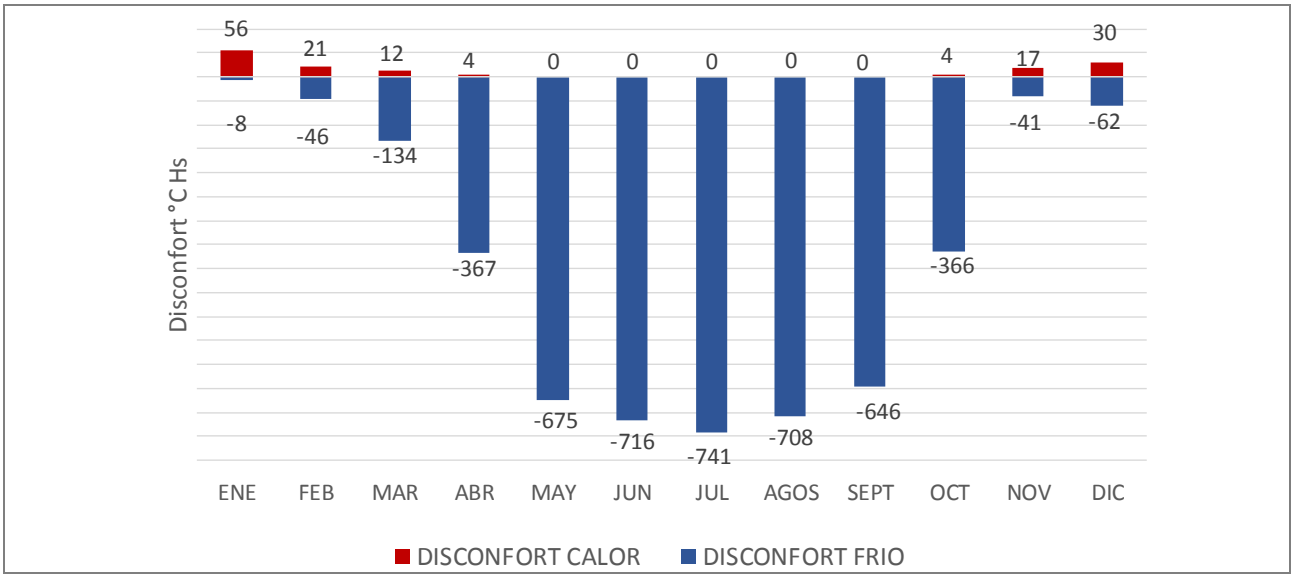




5,27 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-003 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

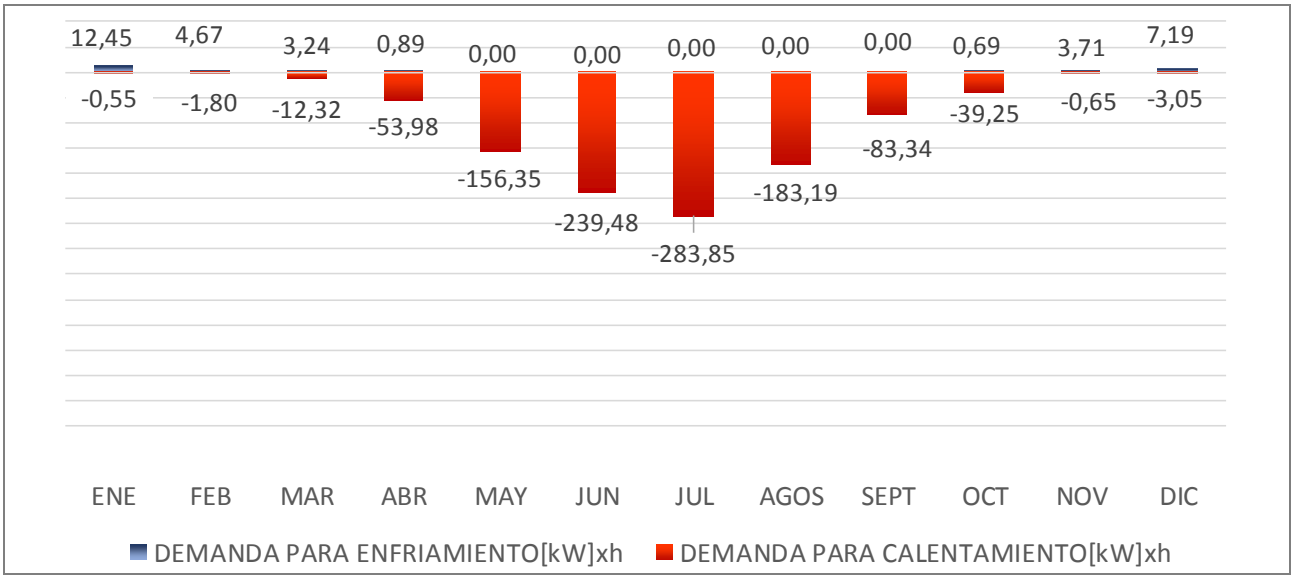
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **145** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.508** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.653** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

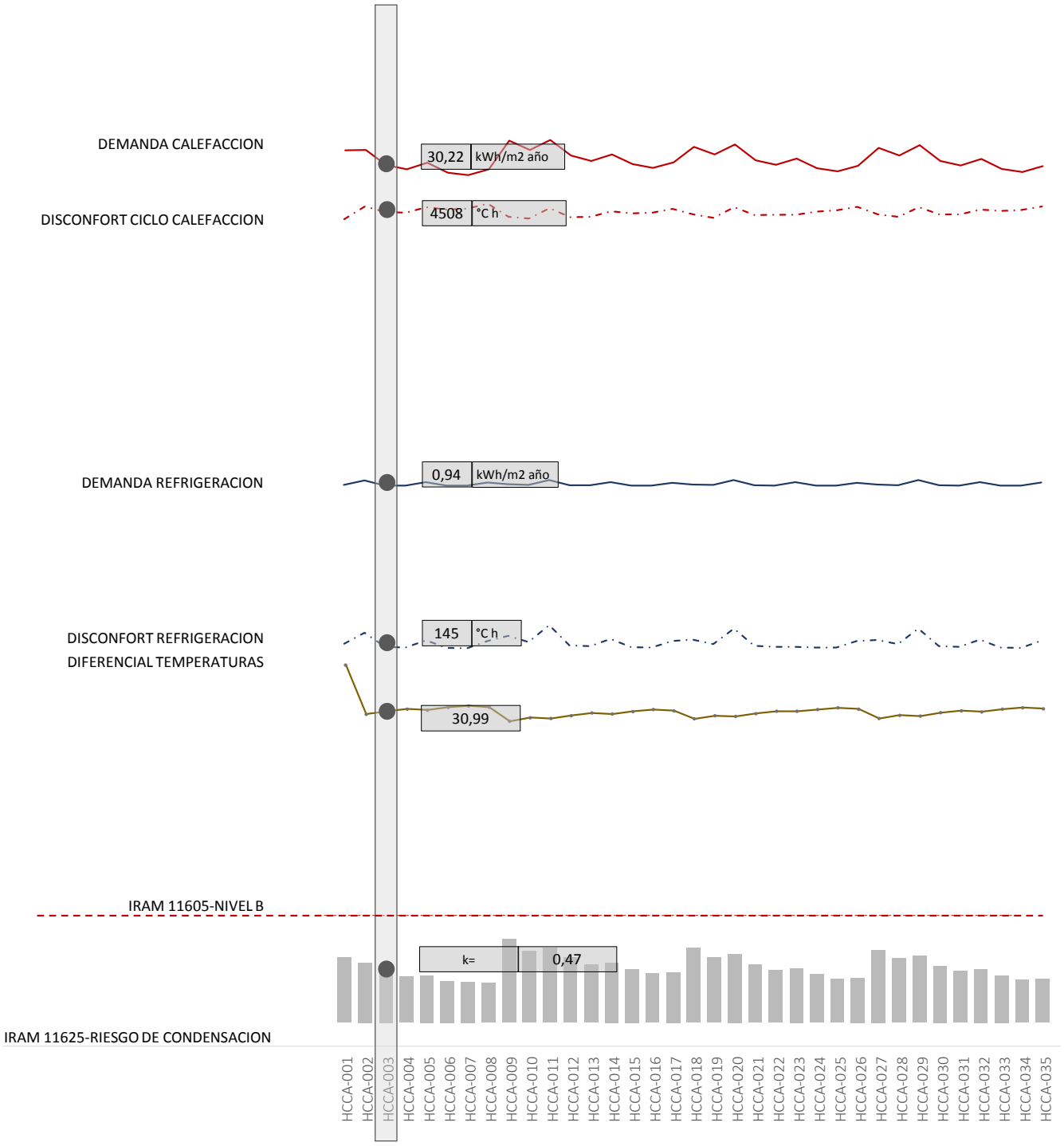



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **32,84** | kWh | 0,94 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.057,79** | kWh | 30,22 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.090,64** | kWh | **31,16** | kWh/m2/año |

| HCCA-003 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 110 | N° 110 | N° 076 | N° 020 | N° 063 | N° 019 |



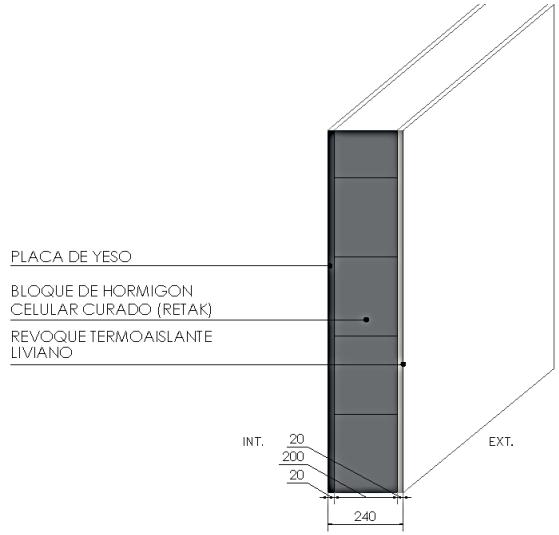

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,47 | 0% | 30,99 | 30,22 | 0,94 | 4508,00 | 145,00 |
| INC. FAMILIA | 88,98% | 0% | 99,90% | 96,36% | 77,69% | 100,04% | 81,13% |
| INC. MUNDIAL | 39,52% | 0% | 100,57% | 73,48% | 15,66% | 101,04% | 28,37% |

| HCCA-004 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (RETAK 510) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

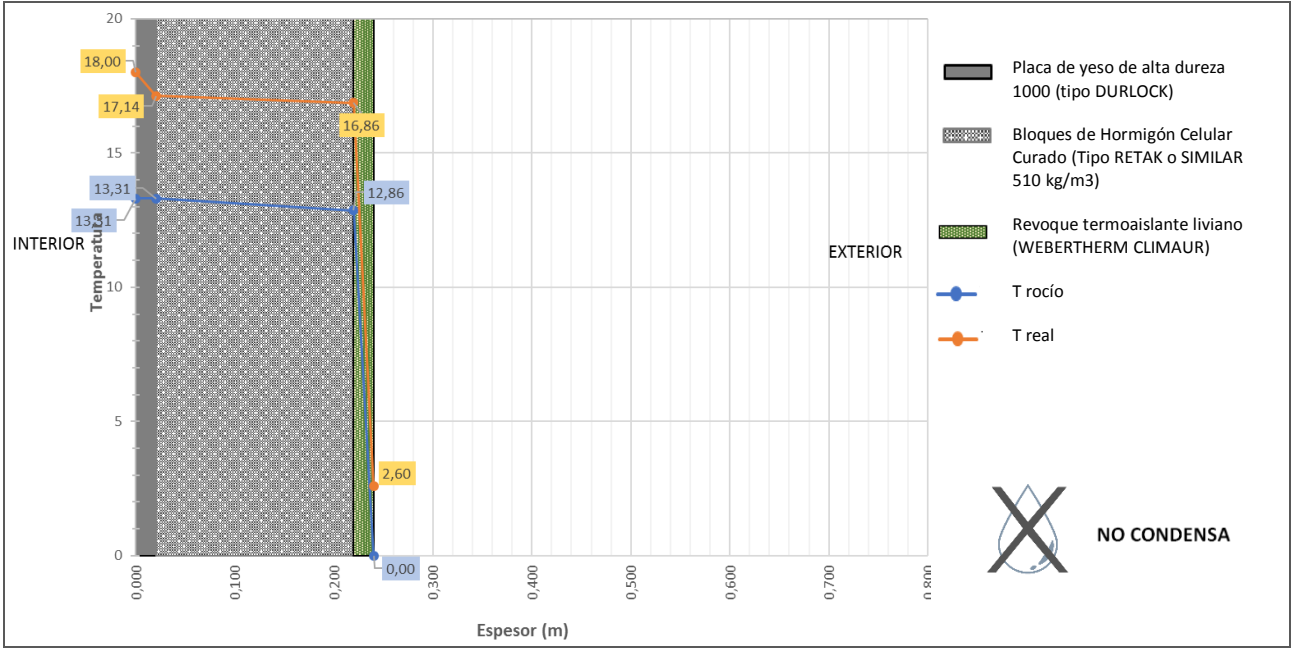
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,43 | 0,43 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



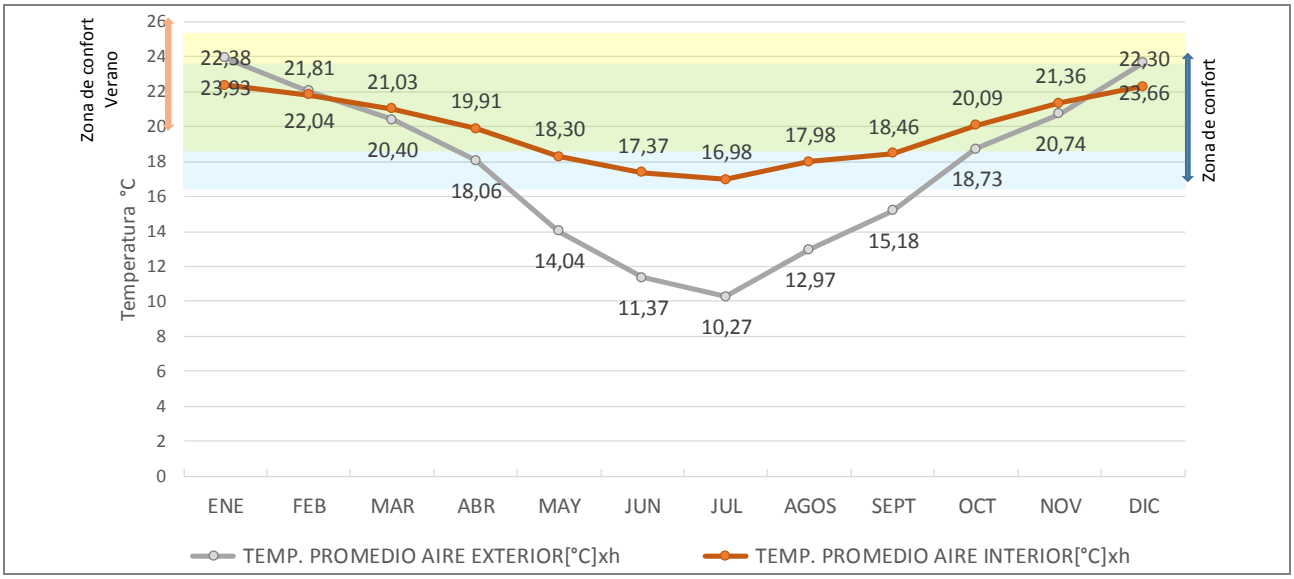

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 15,7 | 17,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,7** | **12,4** |
| | **Amortiguamiento:** | 0,013 | 0,010 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,5** | **9,4** |
| | **Amortiguamiento:** | 0,109 | 0,086 |

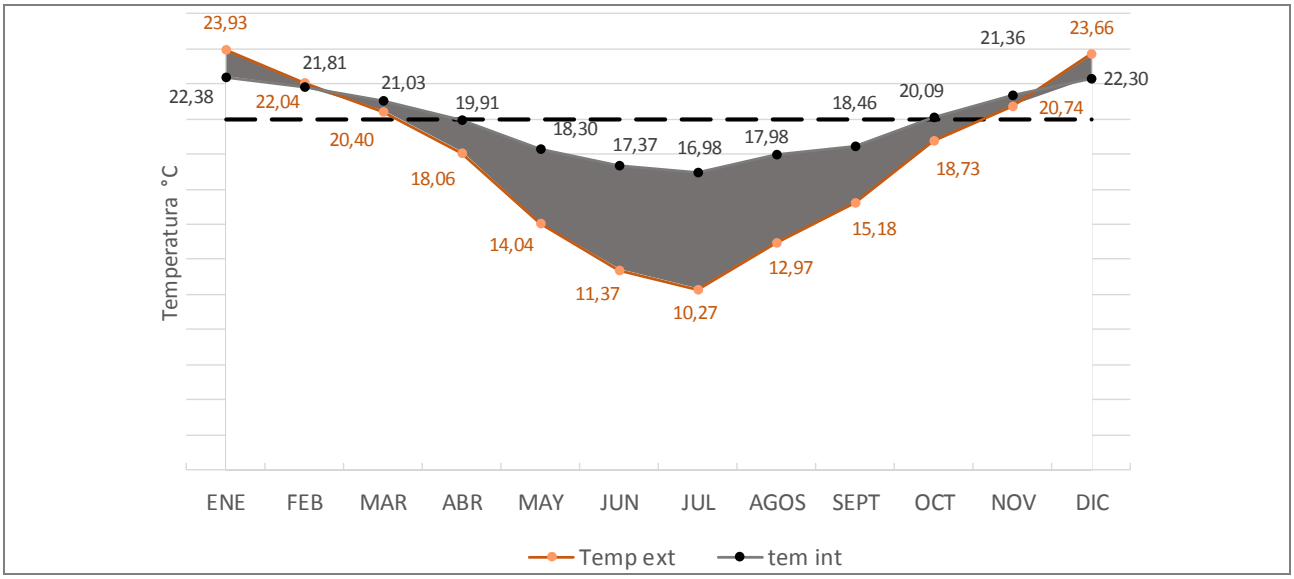
| HCCA-004 | MU | HCCA |
|---|---|---|

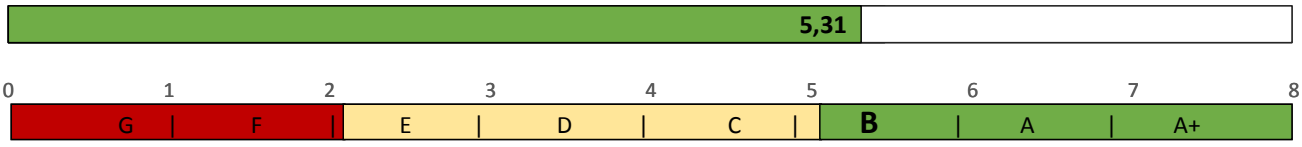
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,52** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,85** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



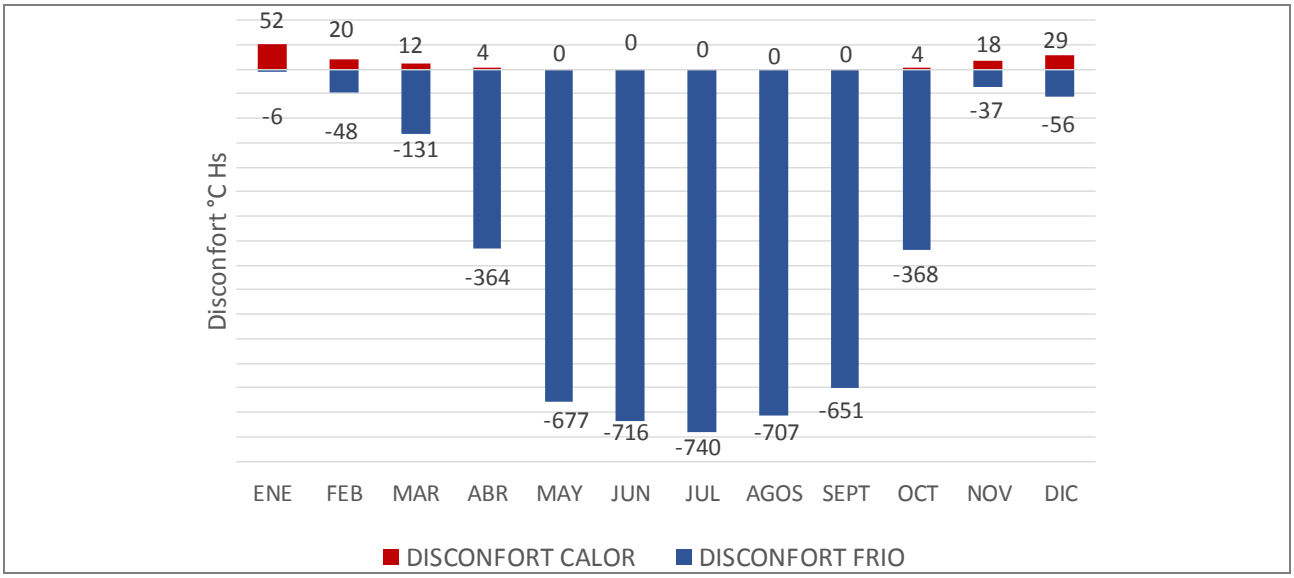




5,31 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-004 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

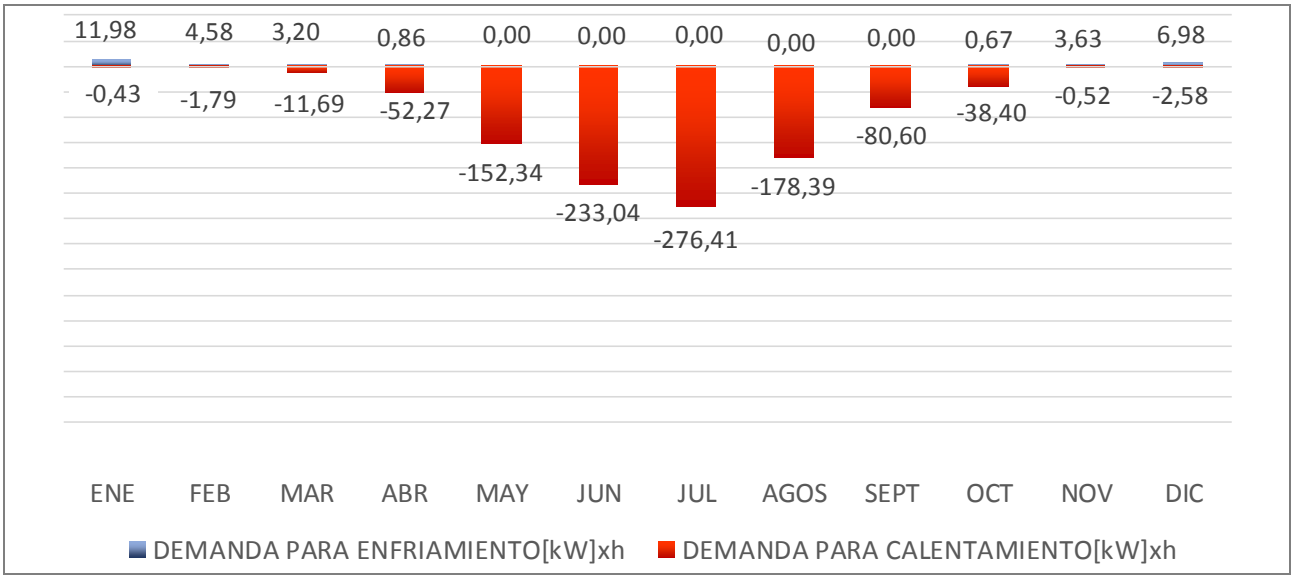
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **139** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.502** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.641** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

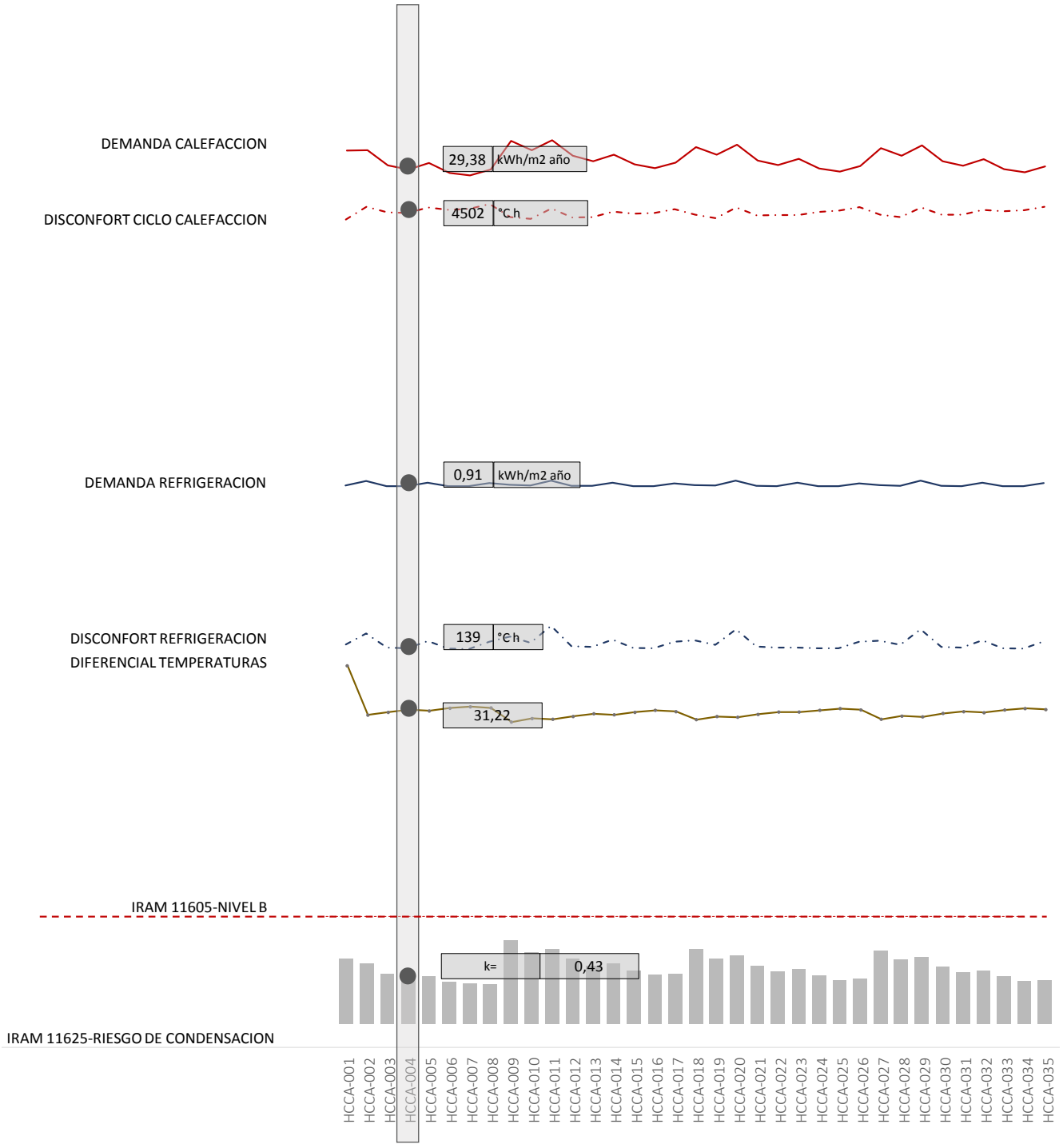



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **31,91** | kWh | 0,91 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.028,47** | kWh | 29,38 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.060,38** | kWh | **30,30** | kWh/m2/año |

| HCCA-004 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 083 | N° 087 | N° 043 | N° 014 | N° 057 | N° 014 |



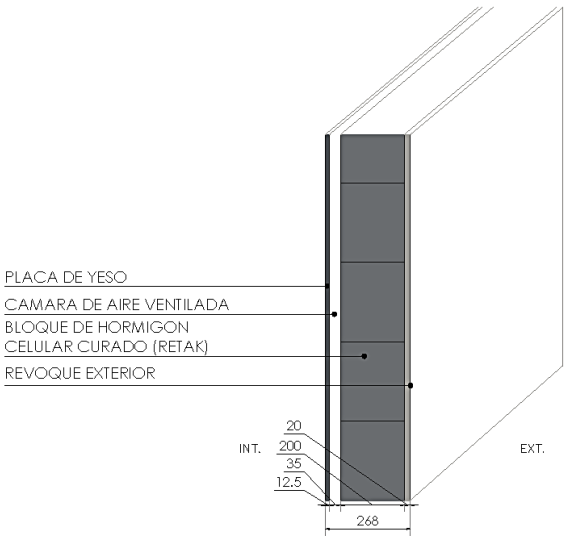

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,43 | 0% | 31,22 | 29,38 | 0,91 | 4502,00 | 139,00 |
| INC. FAMILIA | 81,40% | 0% | 100,64% | 93,68% | 75,21% | 99,91% | 77,77% |
| INC. MUNDIAL | 36,15% | 0% | 101,32% | 71,44% | 15,16% | 100,91% | 27,19% |

| HCCA-005 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (RETAK 510) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

## INDICE DE TRANSMITANCIA TERMICA "K"

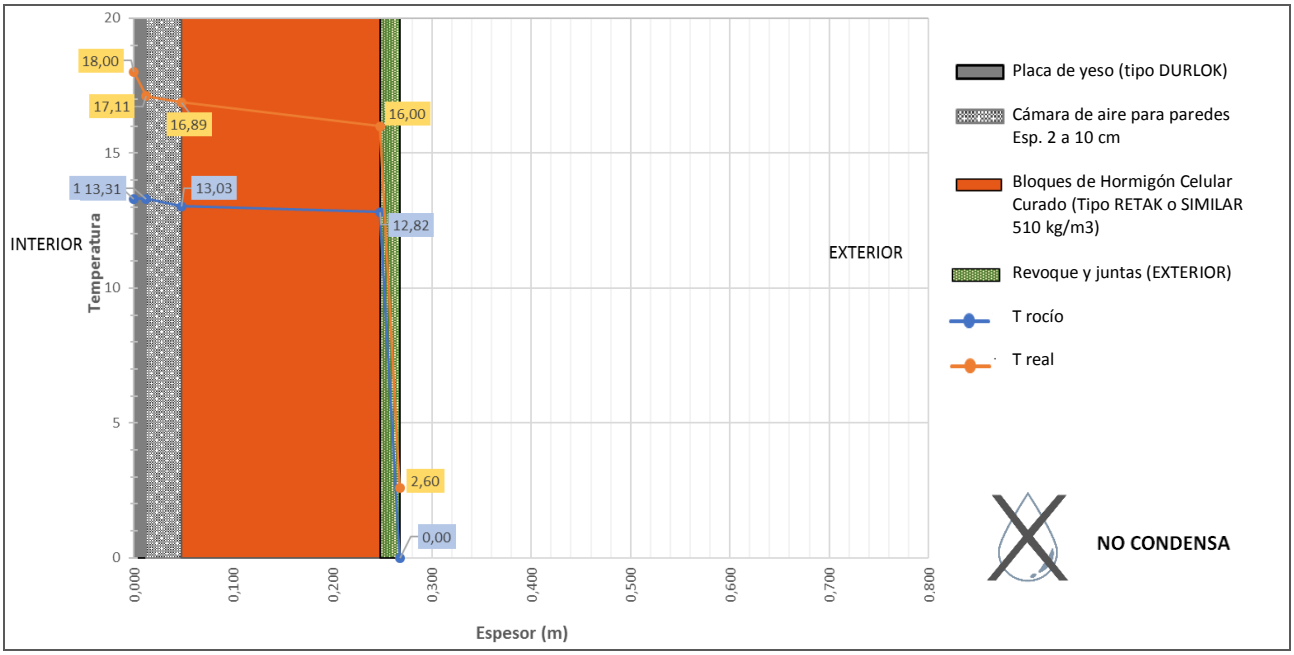
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,44 | 0,44 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



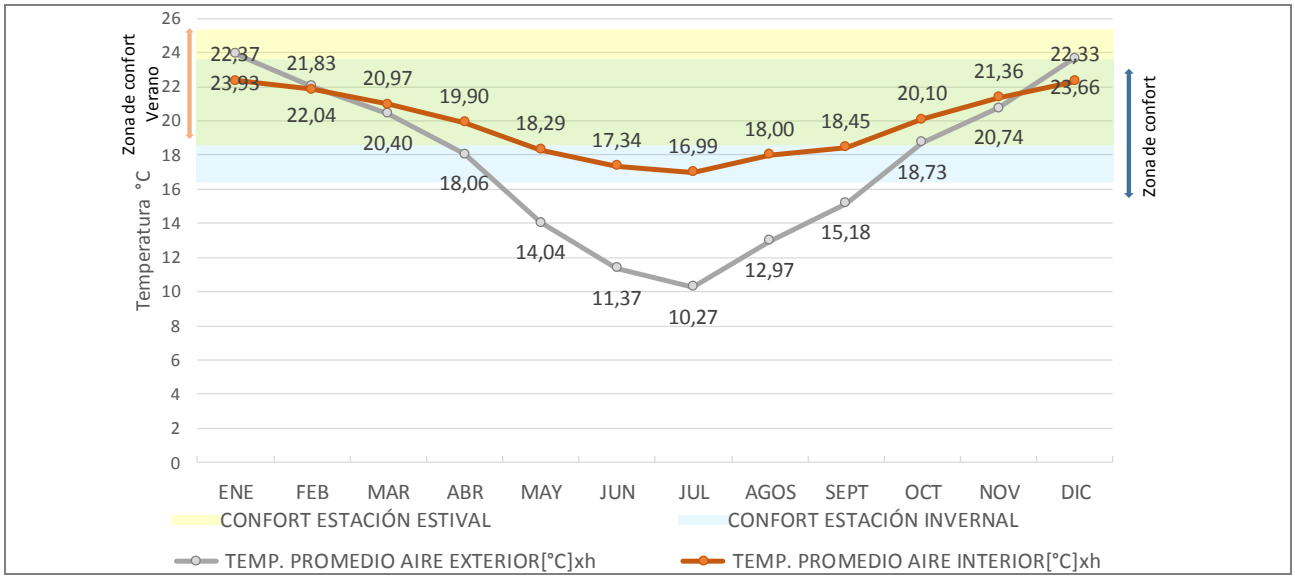

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 18,6 | 16,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,4** | **11,7** |
| | **Amortiguamiento:** | 0,010 | 0,013 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **9,9** | **8,2** |
| | **Amortiguamiento:** | 0,075 | 0,118 |

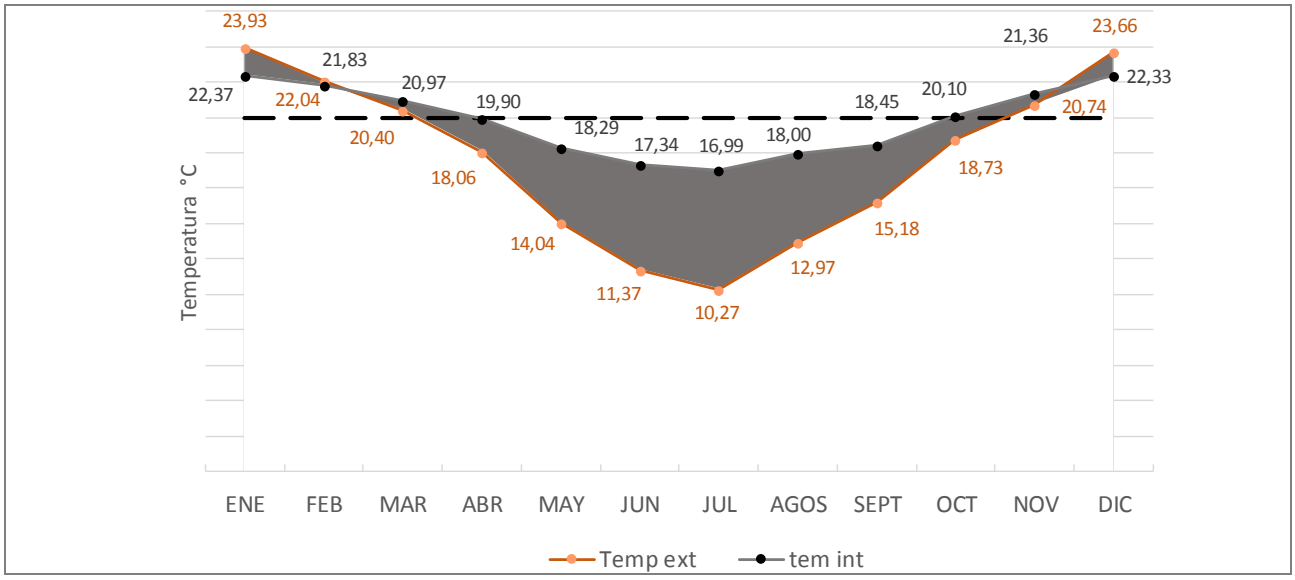
| HCCA-005 | MU | HCCA |
|---|---|---|

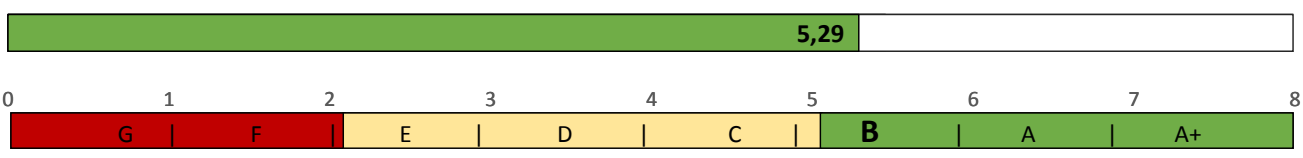
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,89** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,51** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



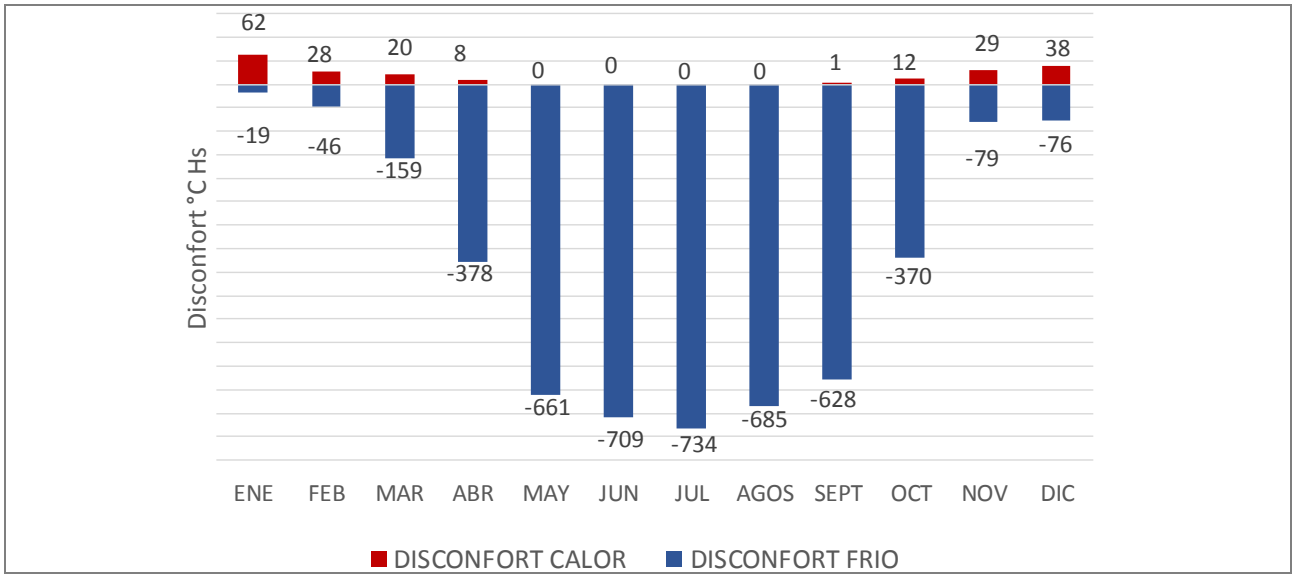




5.29 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.66

| HCCA-005 | MU | HCCA |
|---|---|---|

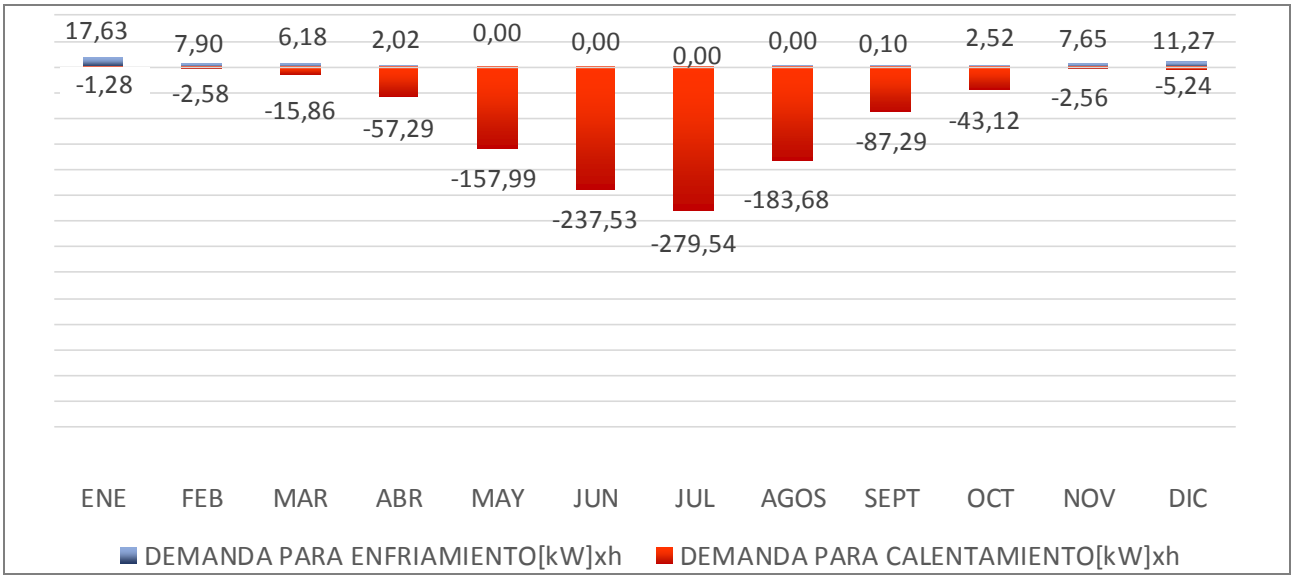
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **197** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.544** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.742** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

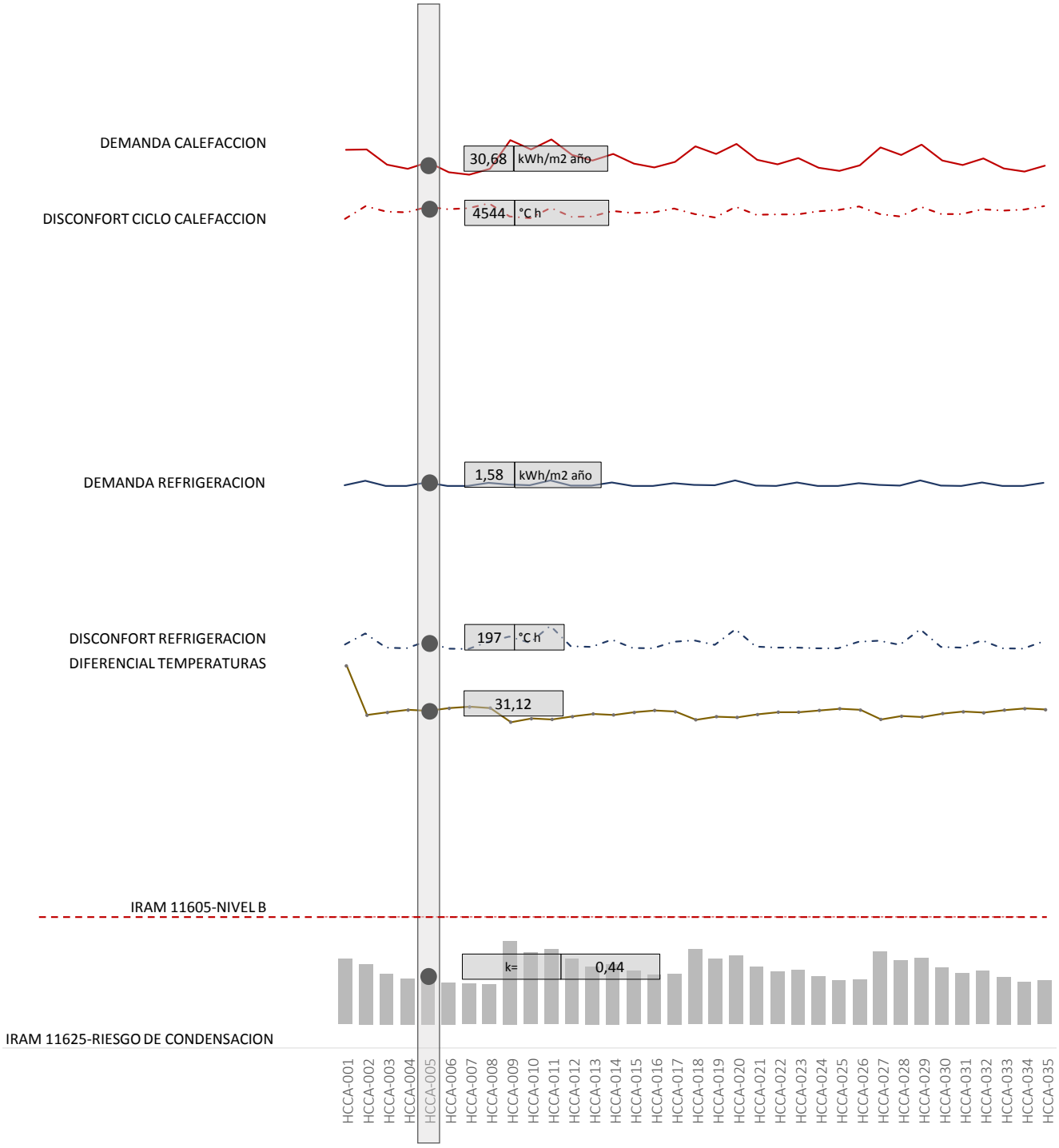



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **55,26** | kWh | 1,58 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.073,97** | kWh | 30,68 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.129,23** | kWh | **32,26** | kWh/m2/año |

| HCCA-005 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 091 | N° 099 | N° 088 | N° 115 | N° 096 | N° 087 |



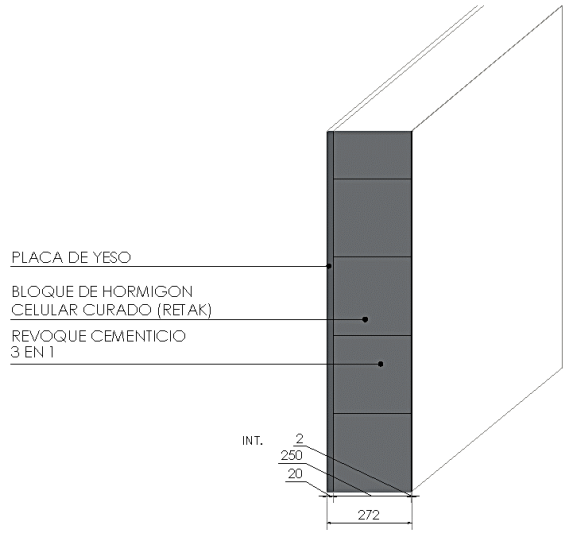

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,44 | 0% | 31,12 | 30,68 | 1,58 | 4544,00 | 197,00 |
| INC. FAMILIA | 83,30% | 0% | 100,32% | 97,82% | 130,58% | 100,84% | 110,22% |
| INC. MUNDIAL | 36,99% | 0% | 100,99% | 74,60% | 26,33% | 101,85% | 38,54% |

| HCCA-006 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (RETAK 510) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

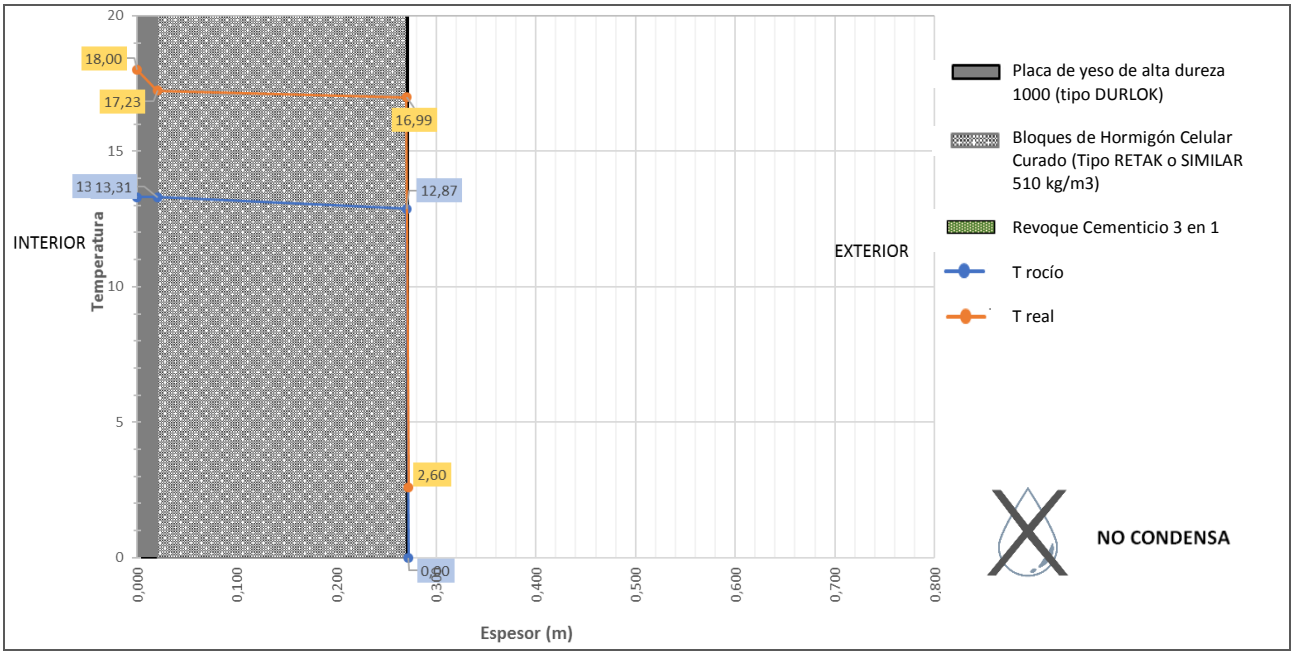
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,39 | 0,39 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



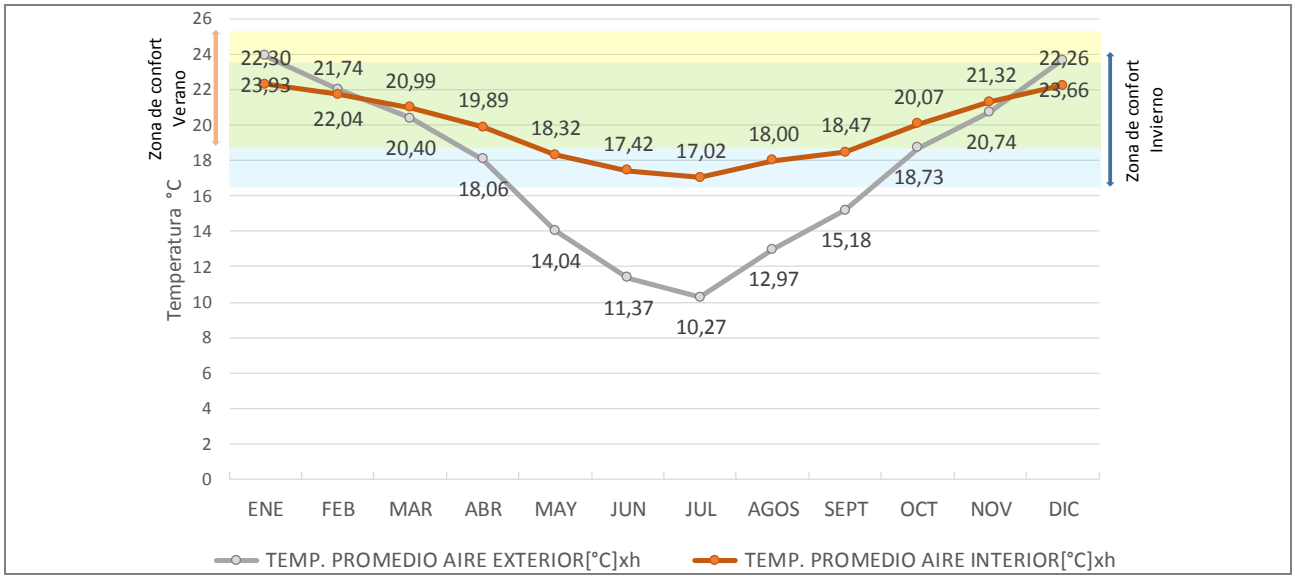

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 16,3 | 18,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **13,5** | **14,4** |
| | **Amortiguamiento:** | 0,007 | 0,005 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **9,8** | **10,5** |
| | **Amortiguamiento:** | 0,077 | 0,065 |

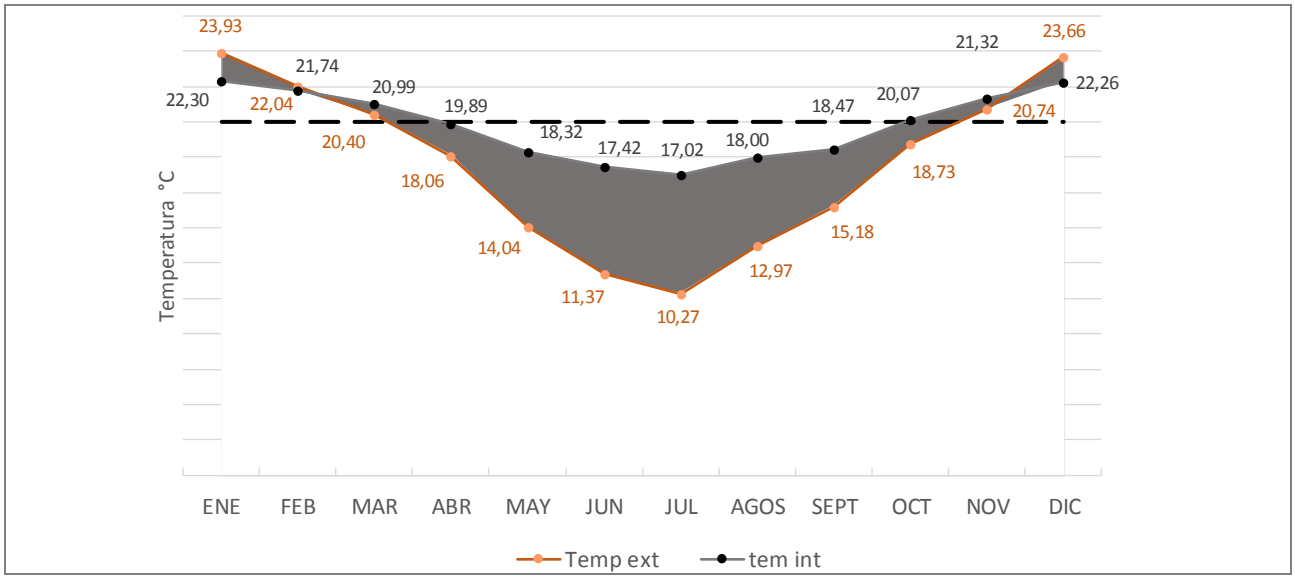
| HCCA-006 | MU | HCCA |
|---|---|---|

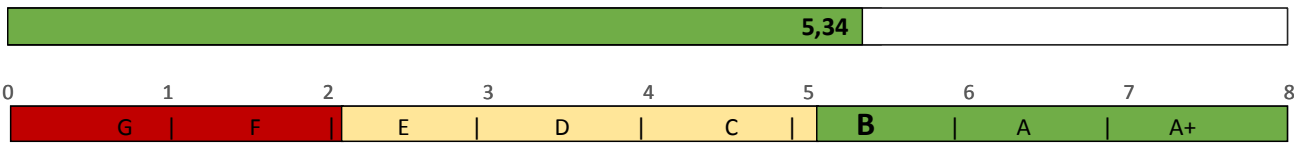
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,46** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,92** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



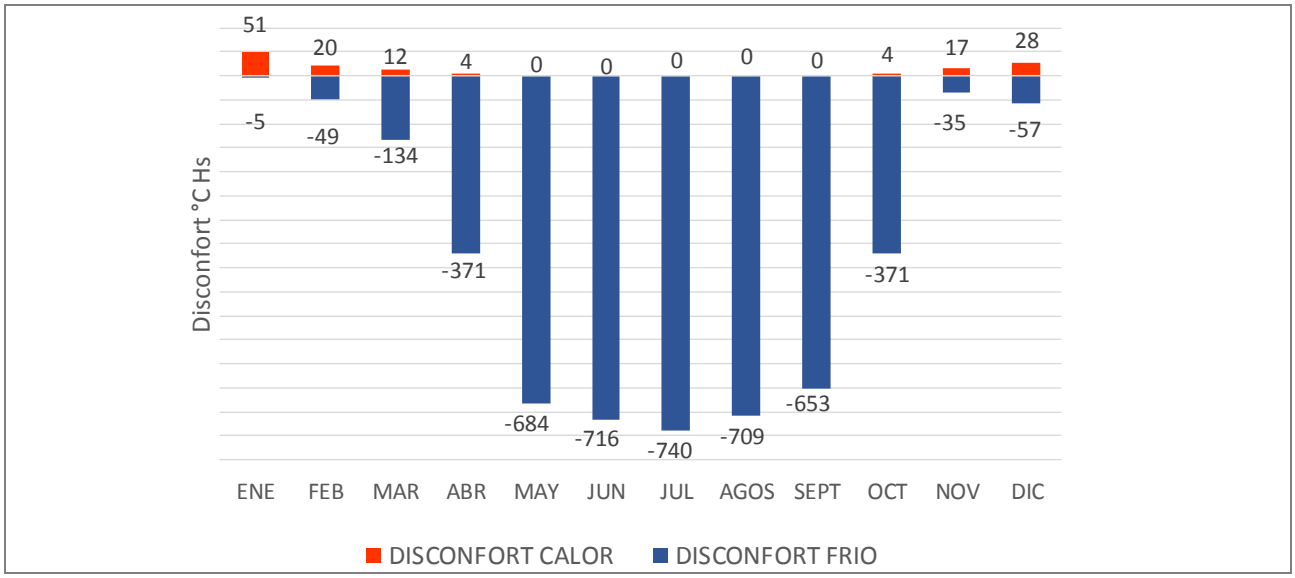




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| HCCA-006 | MU | HCCA |
|---|---|---|

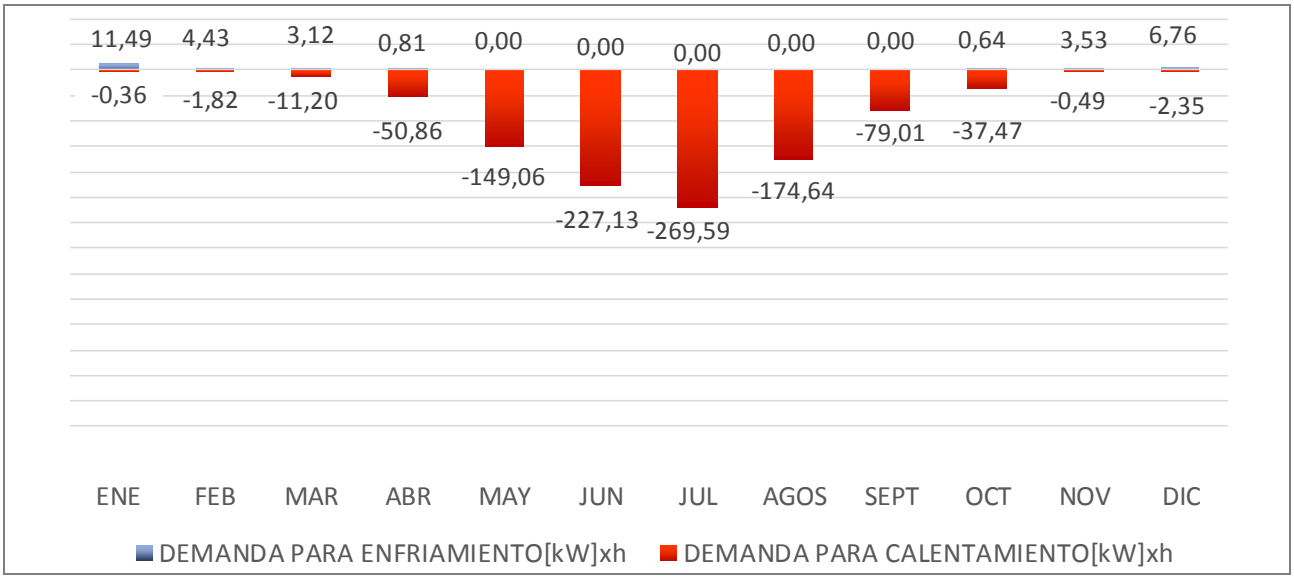
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **135** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.525** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.660** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

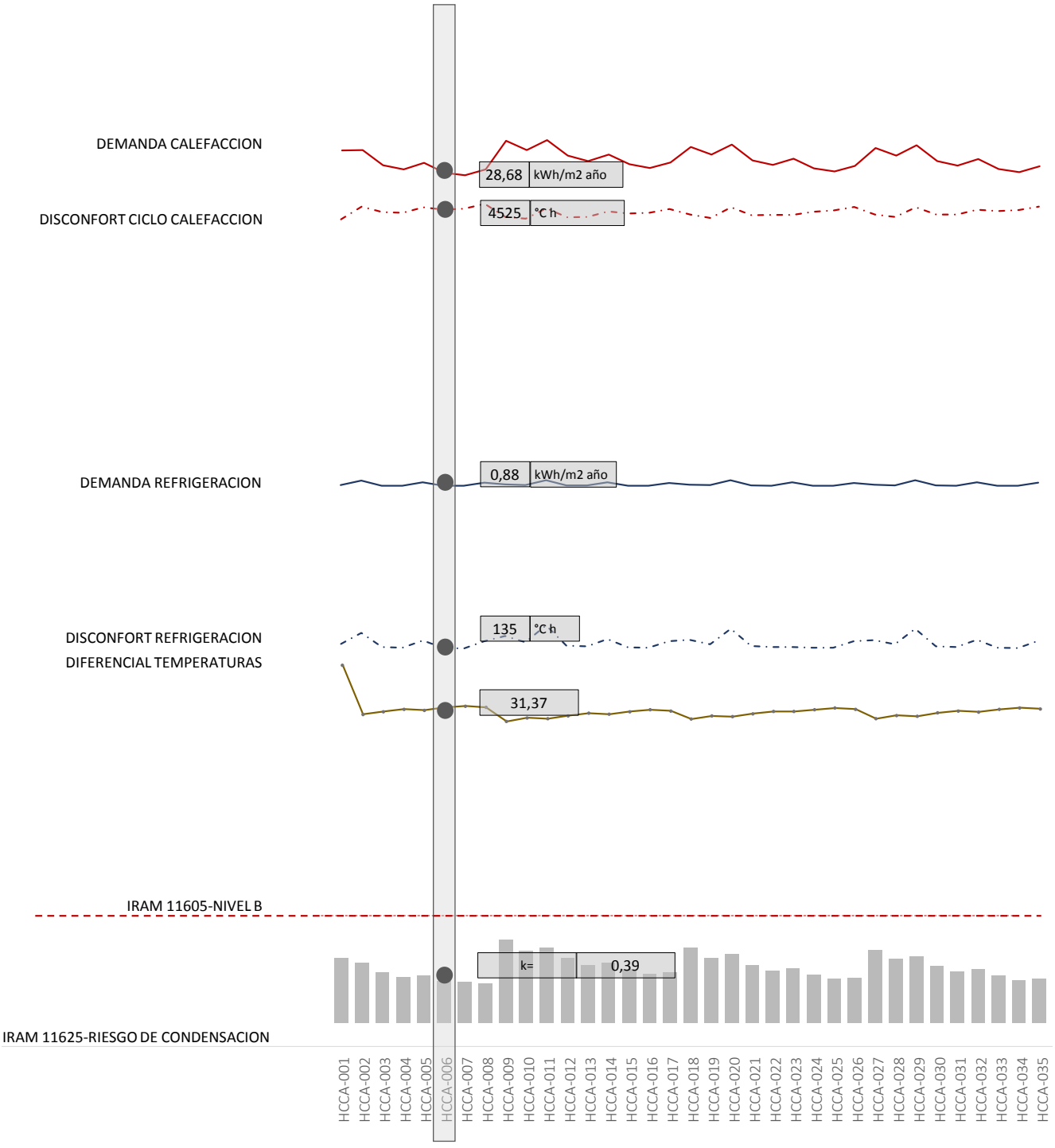



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **30,79** | kWh | 0,88 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.003,96** | kWh | 28,68 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.034,75** | kWh | **29,56** | kWh/m2/año |

| HCCA-006 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 071 | N° 056 | N° 019 | N° 008 | N° 082 | N° 007 |



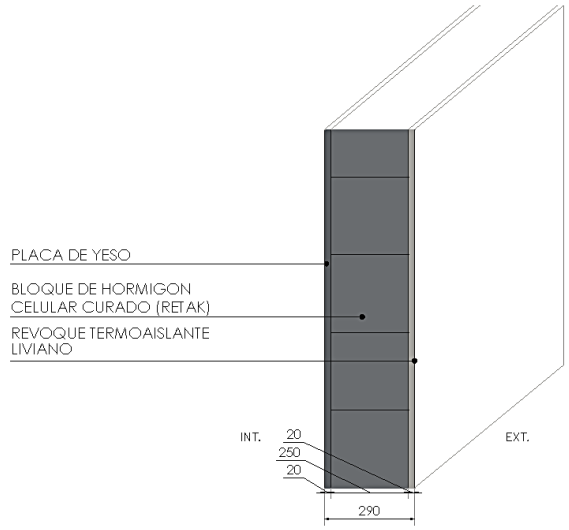

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,39 | 0% | 31,37 | 28,68 | 0,88 | 4525,00 | 135,00 |
| INC. FAMILIA | 73,83% | 0% | 101,12% | 91,45% | 72,73% | 100,42% | 75,53% |
| INC. MUNDIAL | 32,79% | 0% | 101,81% | 69,74% | 14,66% | 101,42% | 26,41% |

| HCCA-007 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (RETAK 510) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

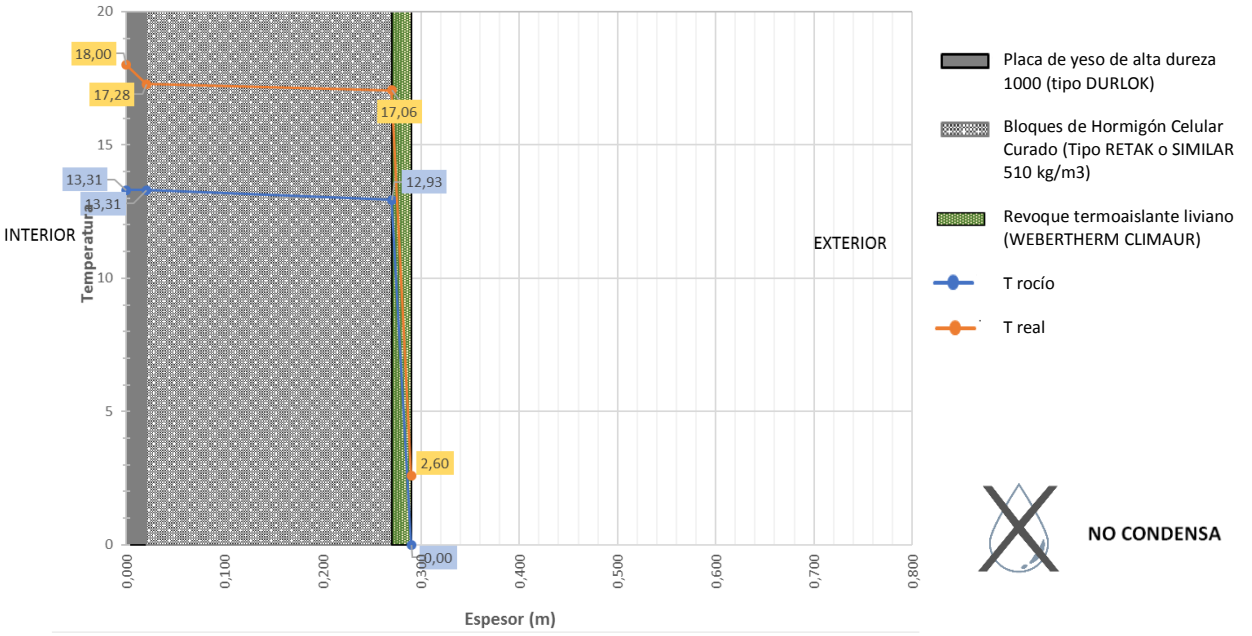
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



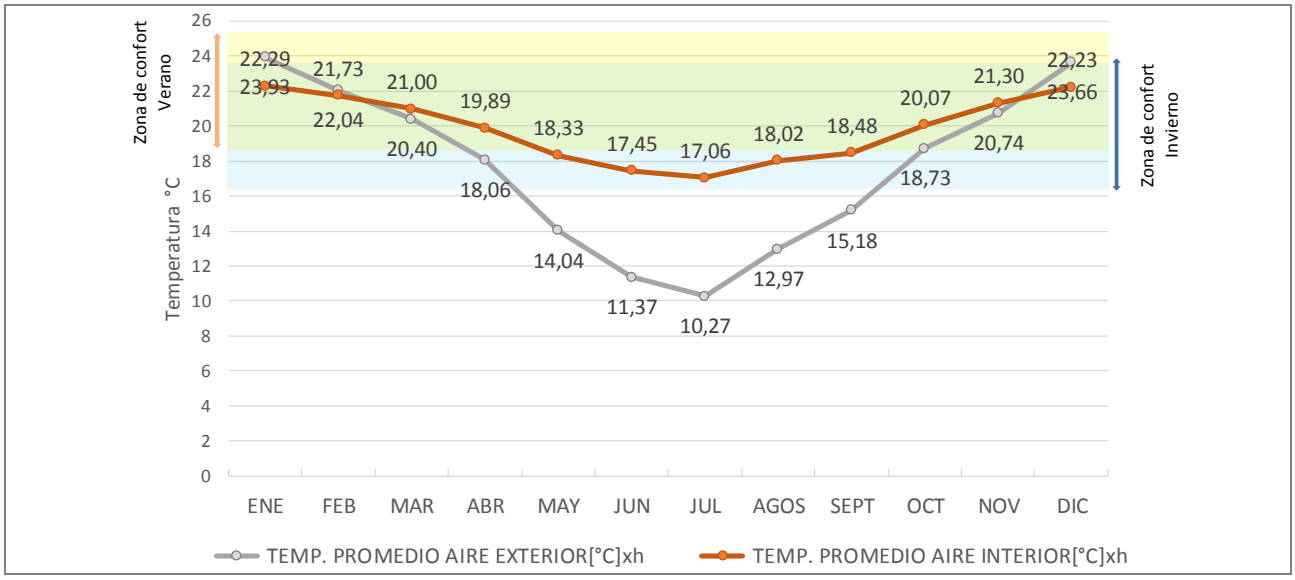

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 15,8 | 17,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,4** | **15,0** |
| | **Amortiguamiento:** | 0,005 | 0,004 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,2** | **11,2** |
| | **Amortiguamiento:** | 0,068 | 0,053 |

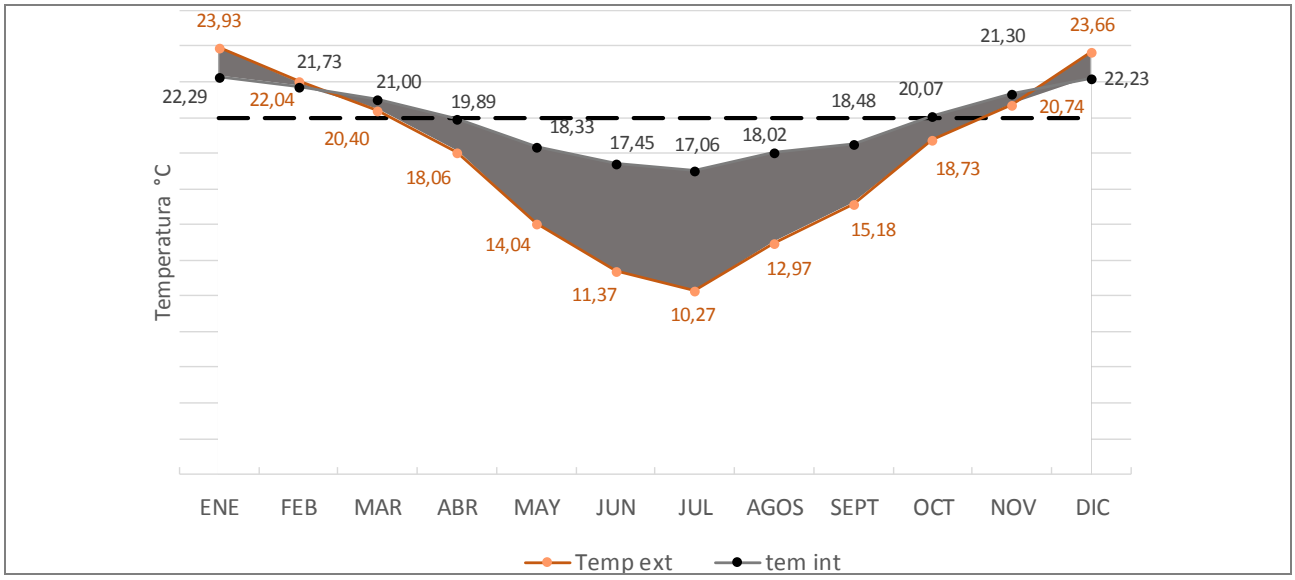
| HCCA-007 | MU | HCCA |
|---|---|---|

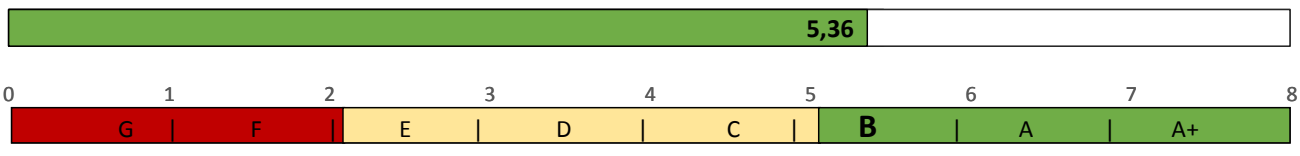
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,45** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,95** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



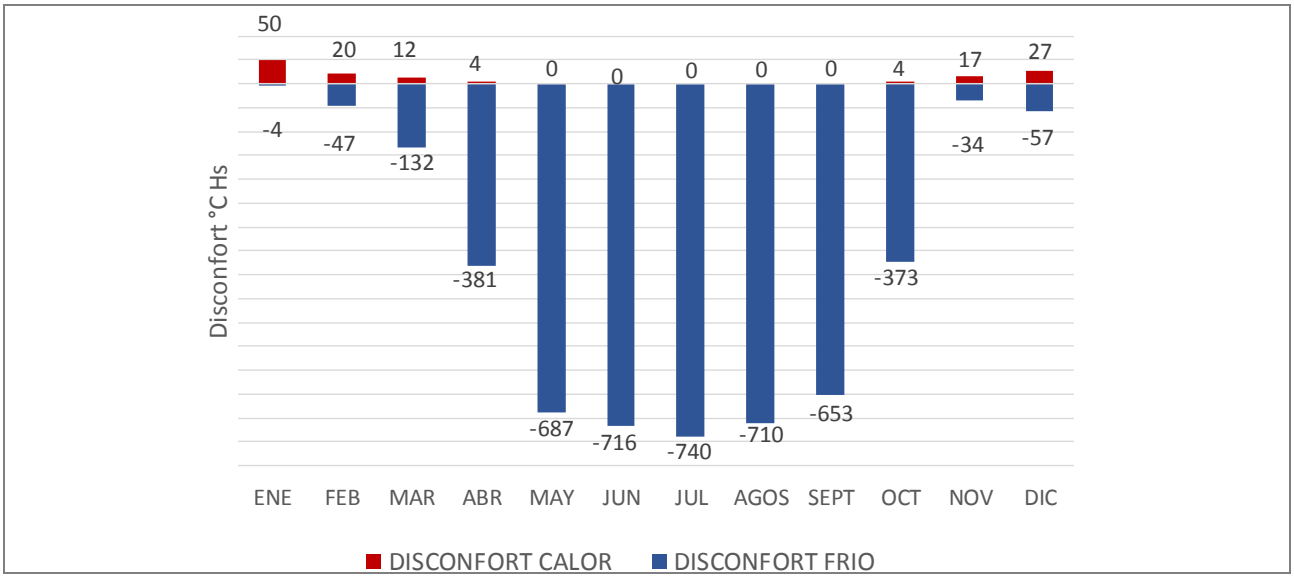




5,36 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| HCCA-007 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

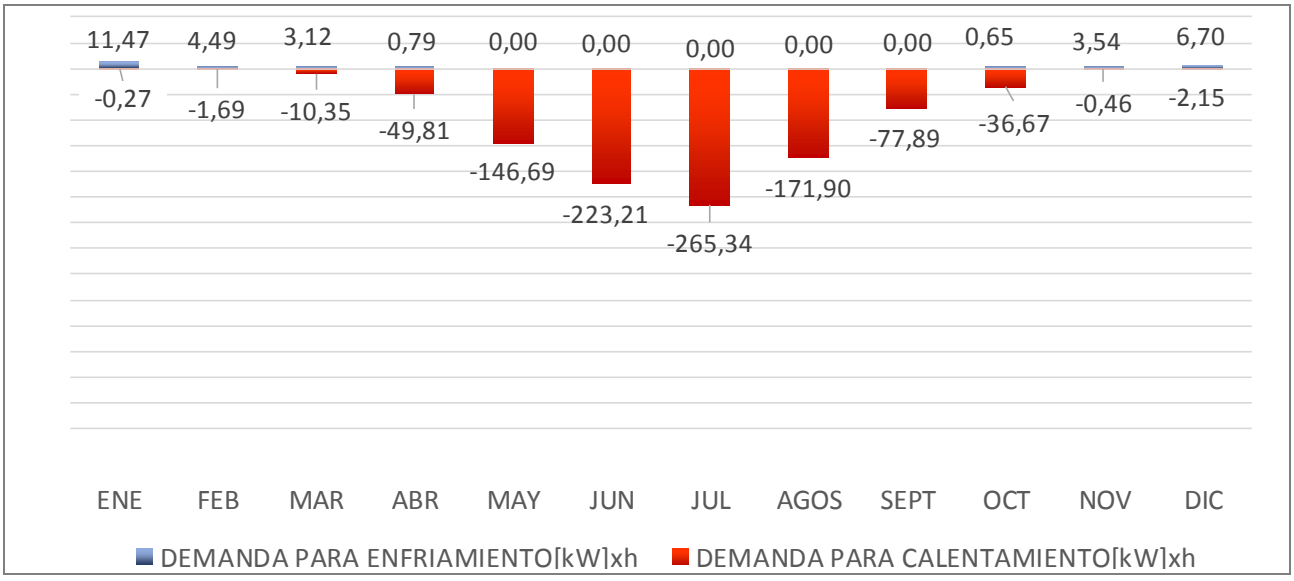
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **134** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.534** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.668** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

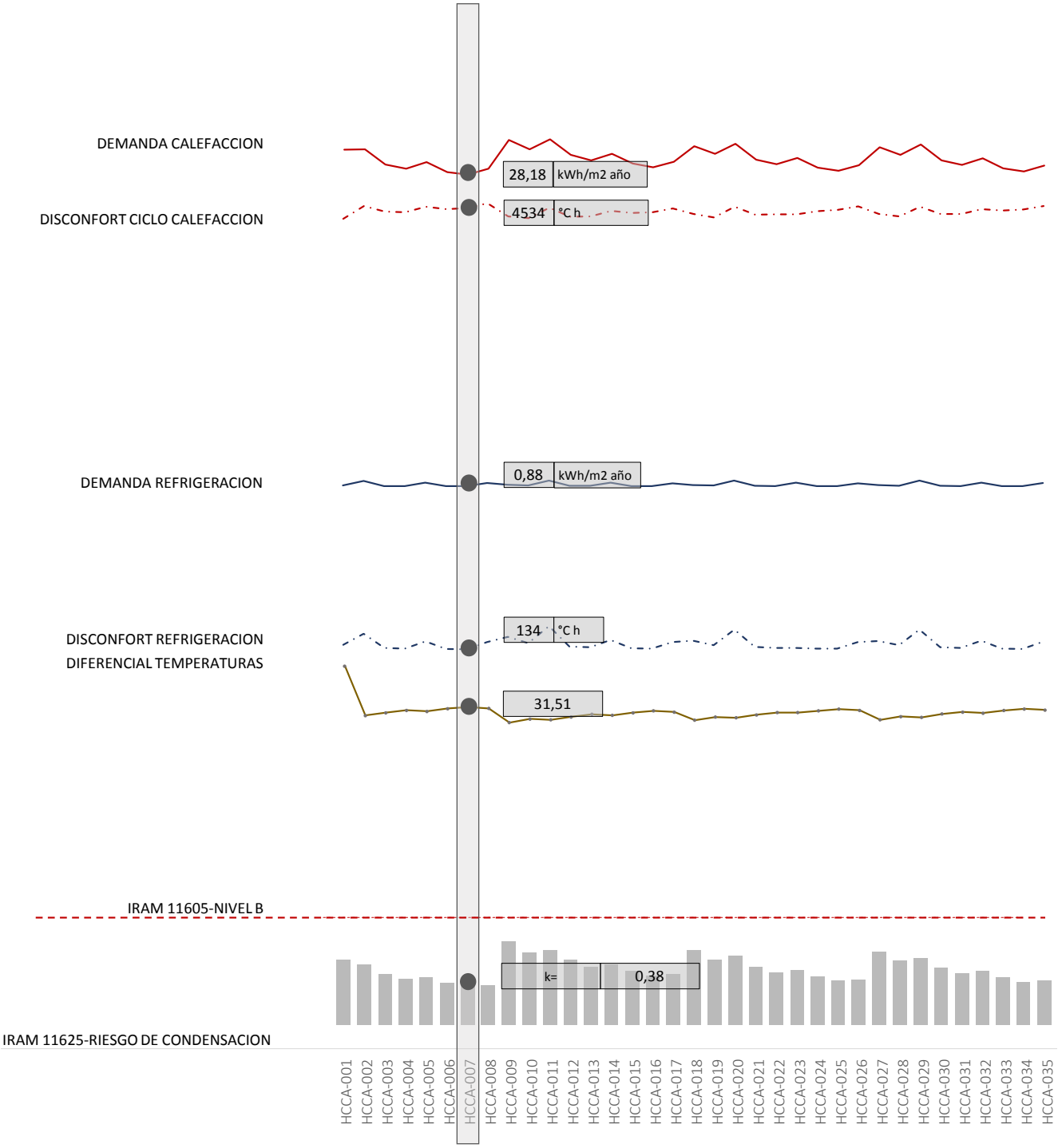



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **30,75** | kWh | 0,88 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **986,42** | kWh | 28,18 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.017,17** | kWh | **29,06** | kWh/m2/año |

| HCCA-007 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 065 | N° 041 | N° 008 | N° 007 | N° 089 | N° 006 |



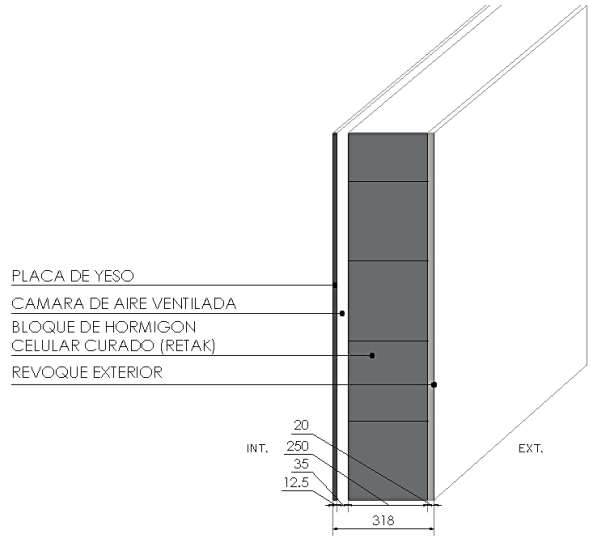

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,36 | 0% | 31,51 | 28,18 | 0,88 | 4534,00 | 134,00 |
| INC. FAMILIA | 68,15% | 0% | 101,57% | 89,85% | 72,73% | 100,62% | 74,97% |
| INC. MUNDIAL | 30,27% | 0% | 102,26% | 68,52% | 14,66% | 101,62% | 26,22% |

| HCCA-008 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (RETAK 510) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

## INDICE DE TRANSMITANCIA TERMICA "K"

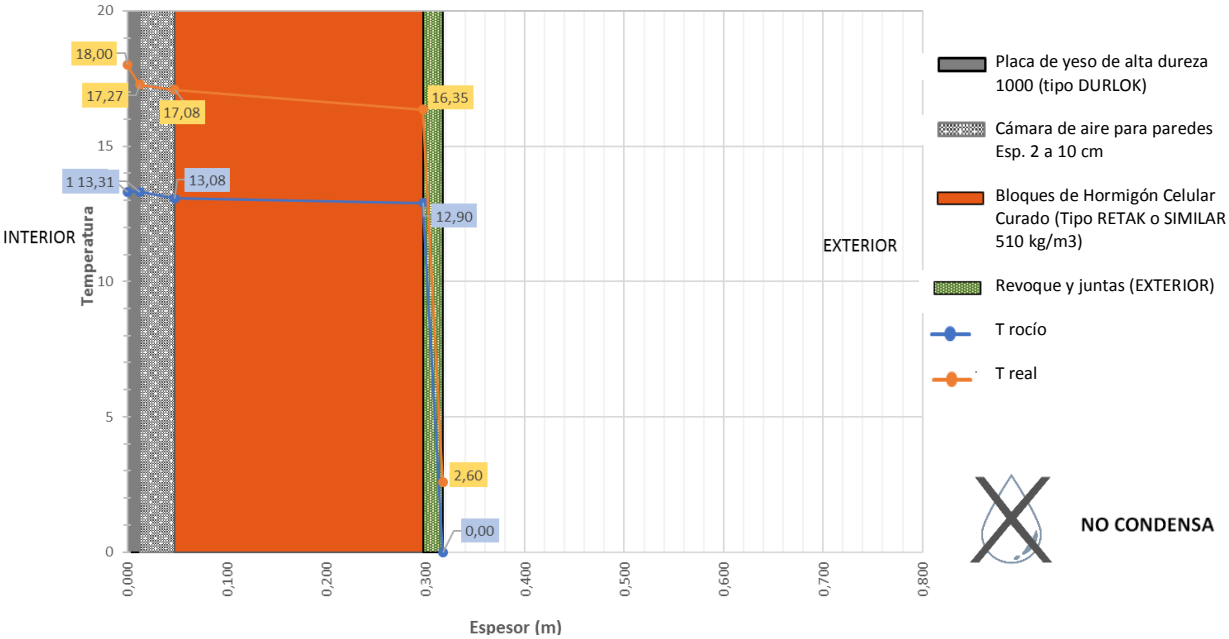
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,37 | 0,37 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



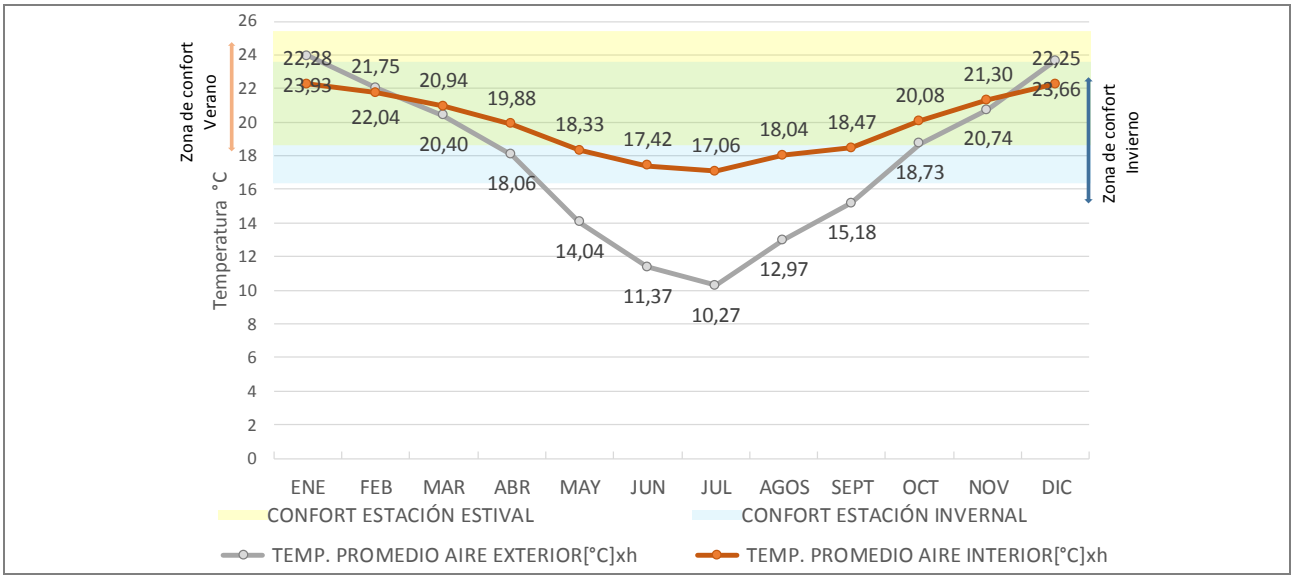

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 18,2 | 16,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **15,1** | **14,3** |
| | **Amortiguamiento:** | 0,004 | 0,005 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,7** | **9,9** |
| | **Amortiguamiento:** | 0,047 | 0,074 |

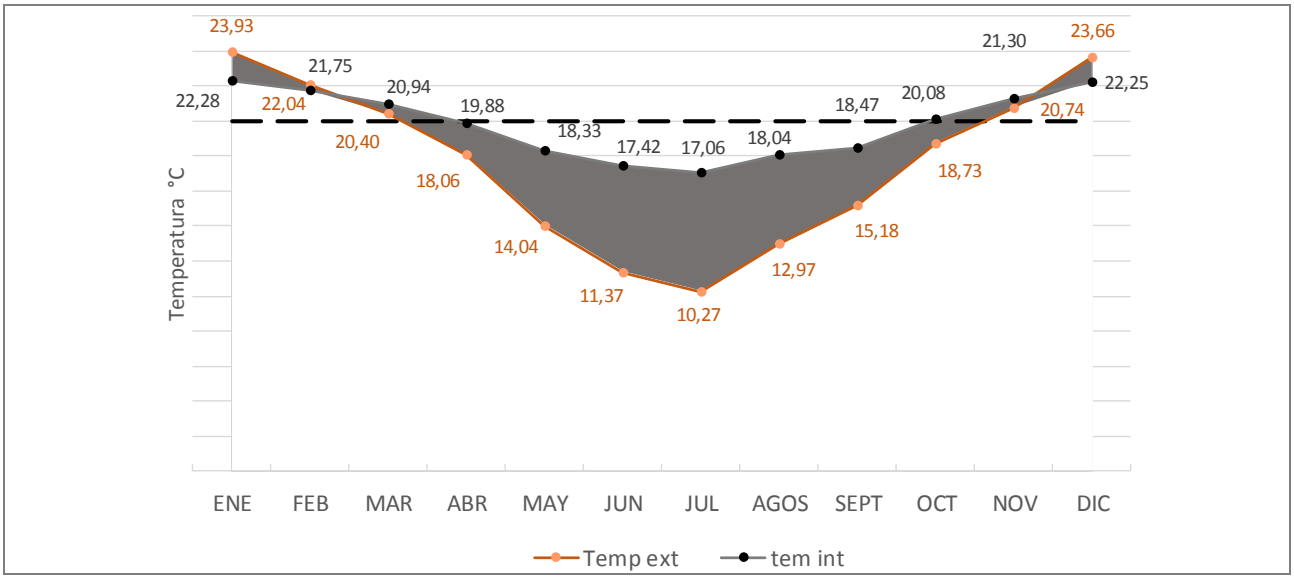
| HCCA-008 | MU | HCCA |
|---|---|---|

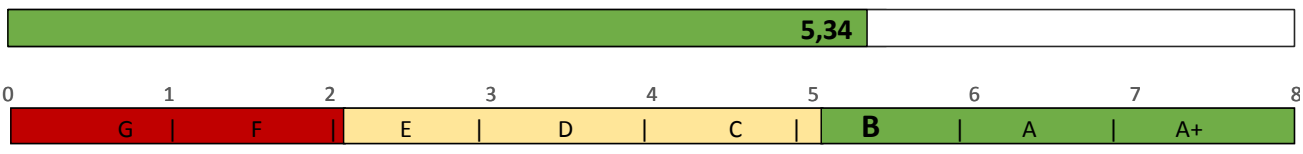
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,75** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,74** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



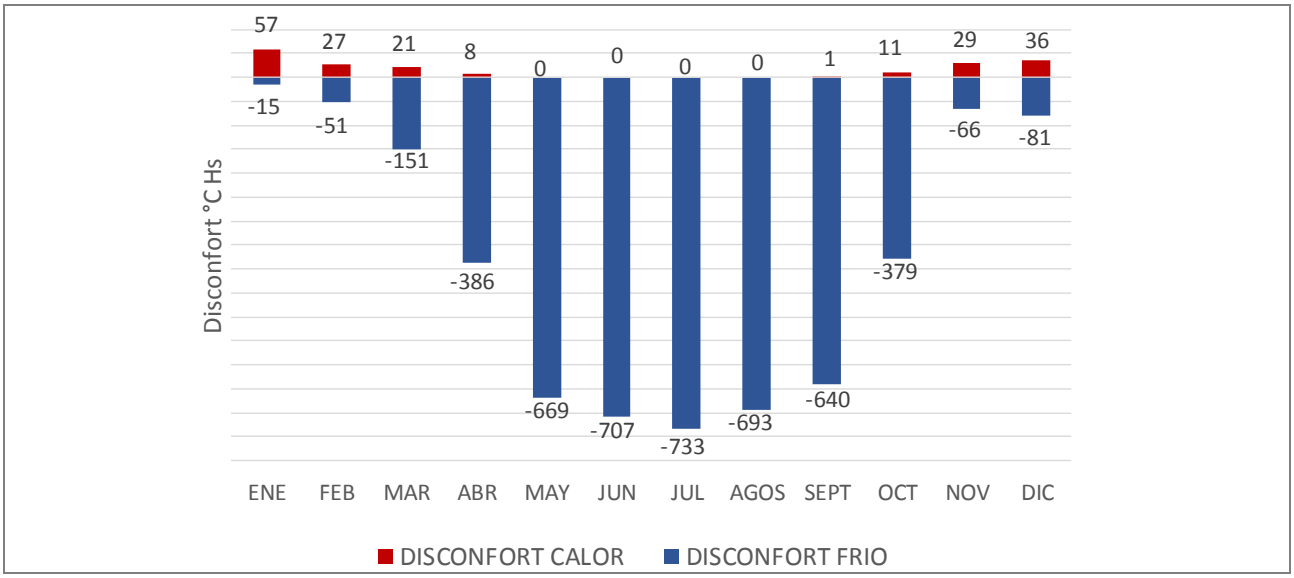




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| HCCA-008 | MU | HCCA |
|---|---|---|

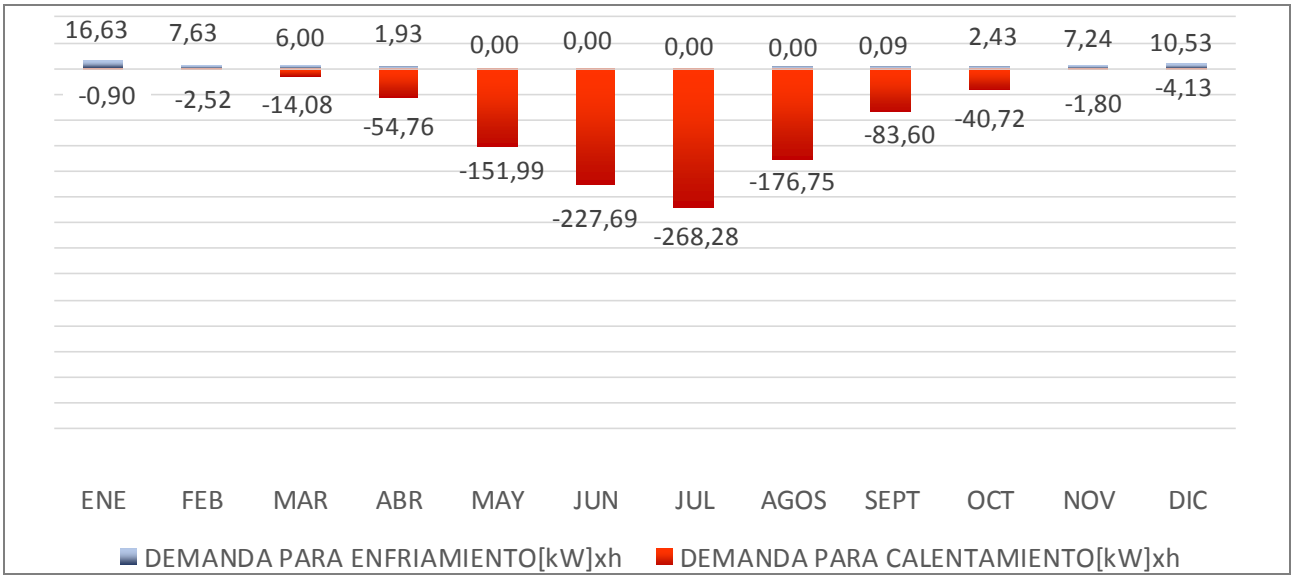
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **190** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.570** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.760** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

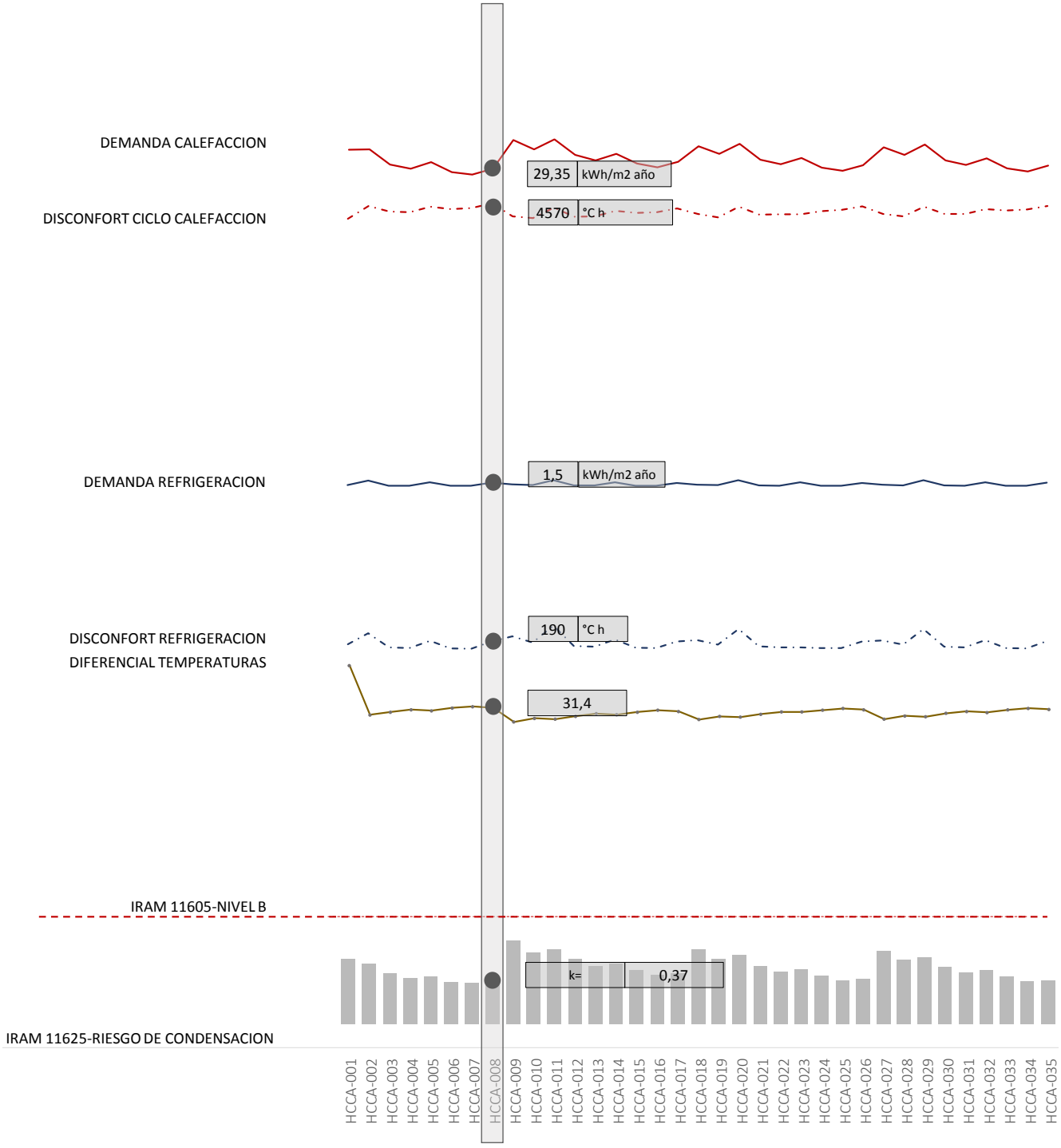



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **52,49** | kWh | 1,50 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.027,20** | kWh | 29,35 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.079,69** | kWh | **30,85** | kWh/m2/año |

| HCCA-008 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 062 | N° 050 | N° 039 | N° 102 | N° 123 | N° 076 |



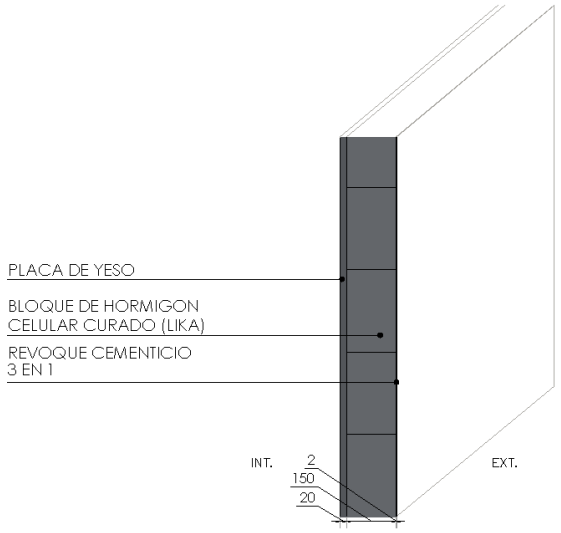

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,37 | 0% | 31,40 | 29,35 | 1,50 | 4570,00 | 190,00 |
| INC. FAMILIA | 70,04% | 0% | 101,22% | 93,58% | 123,97% | 101,42% | 106,30% |
| INC. MUNDIAL | 31,11% | 0% | 101,90% | 71,37% | 24,99% | 102,43% | 37,17% |

| HCCA-009 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (LIKA 660) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

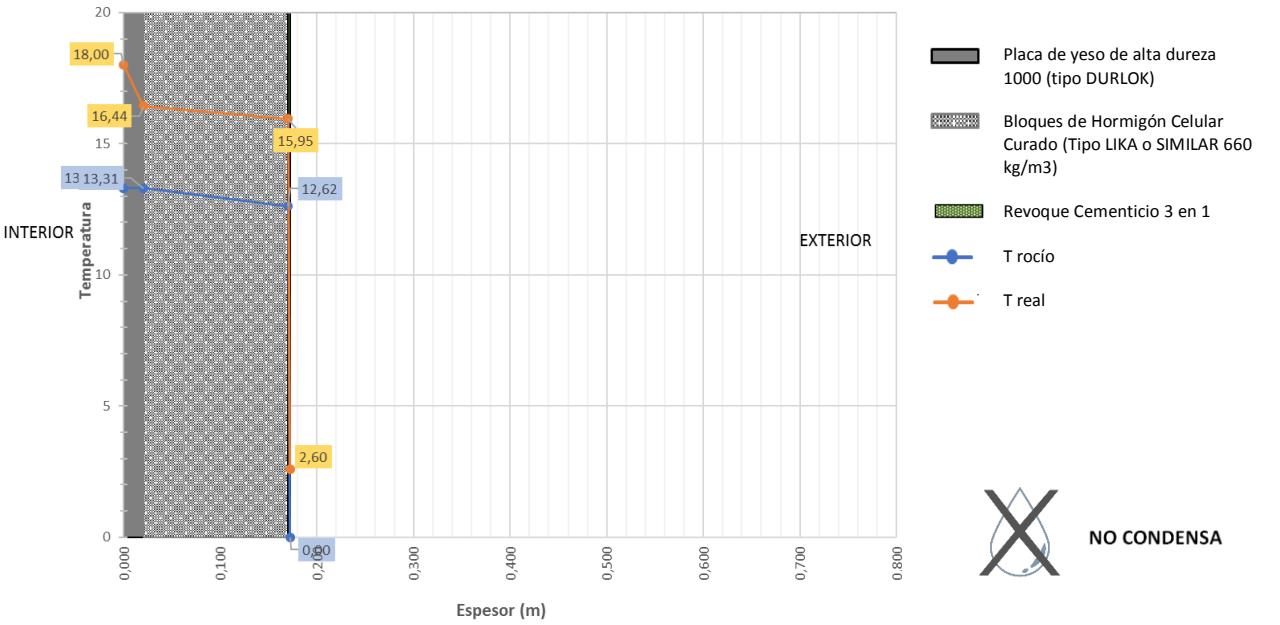
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,78 | 0,78 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



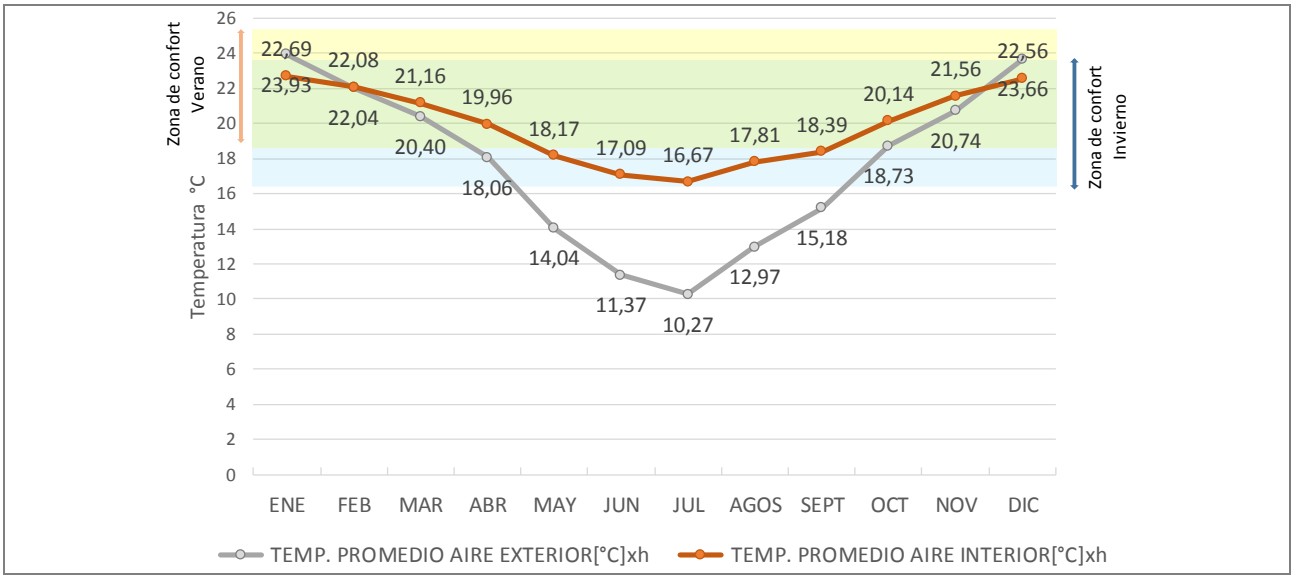

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 27,7 | Invierno 32,6 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,1** | **8,8** |
| | **Amortiguamiento:** | 0,050 | 0,039 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,3** | **6,5** |
| | **Amortiguamiento:** | 0,191 | 0,182 |

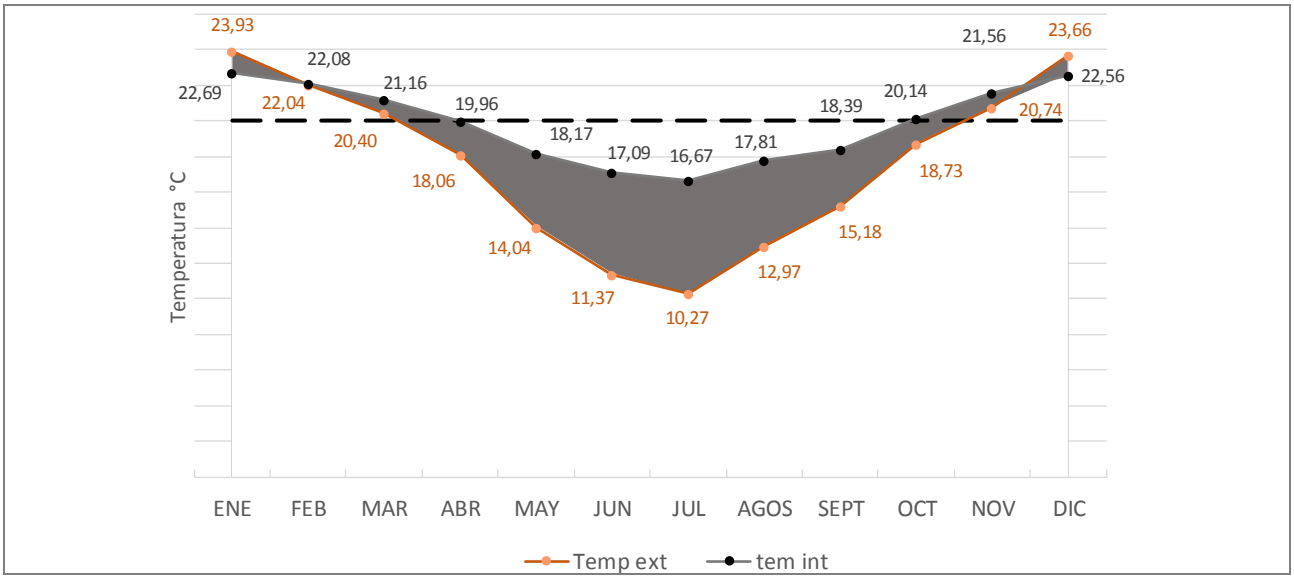
| HCCA-009 | MU | HCCA |
|---|---|---|

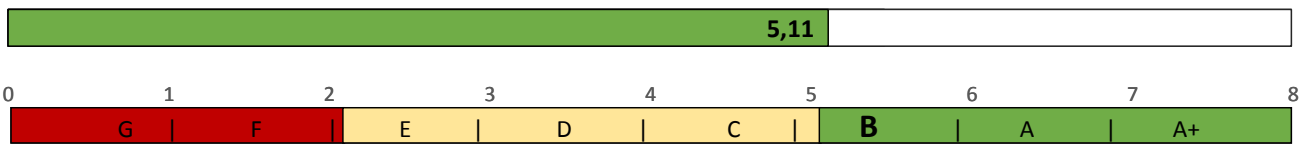
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,00** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **14,09** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



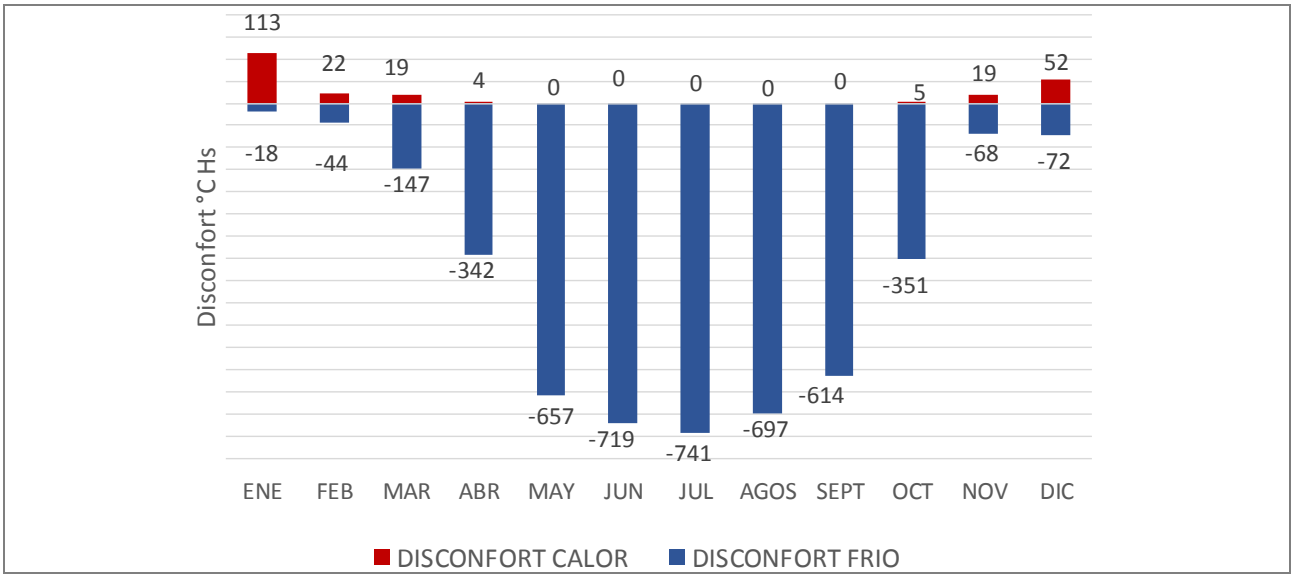




5,11 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| HCCA-009 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

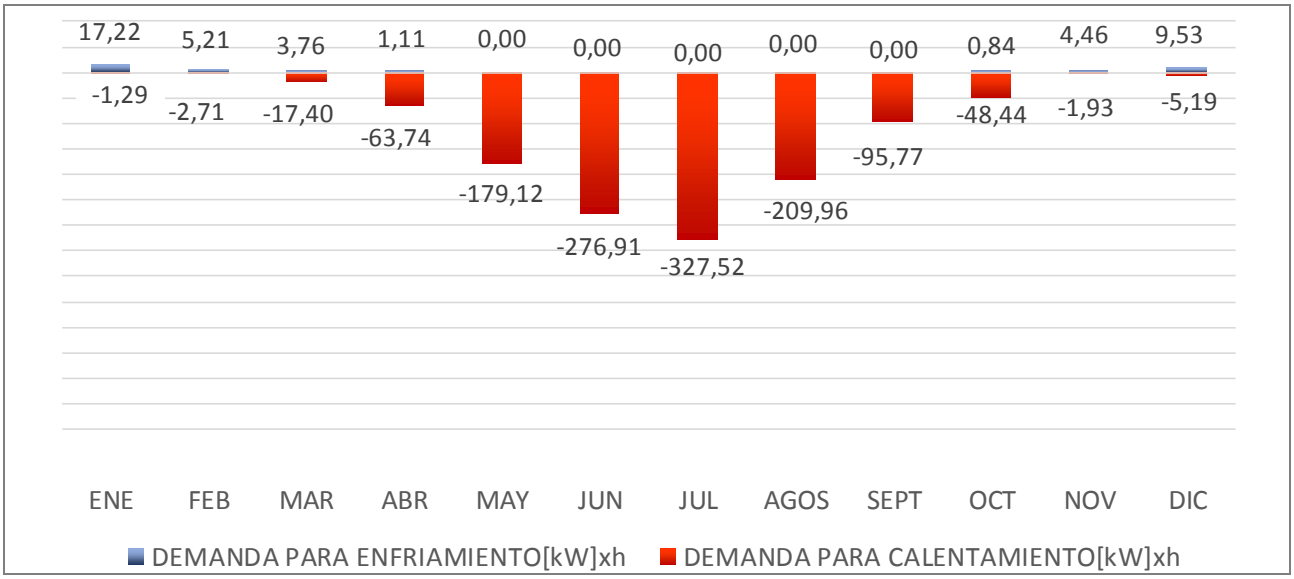
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **234** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.470** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.704** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

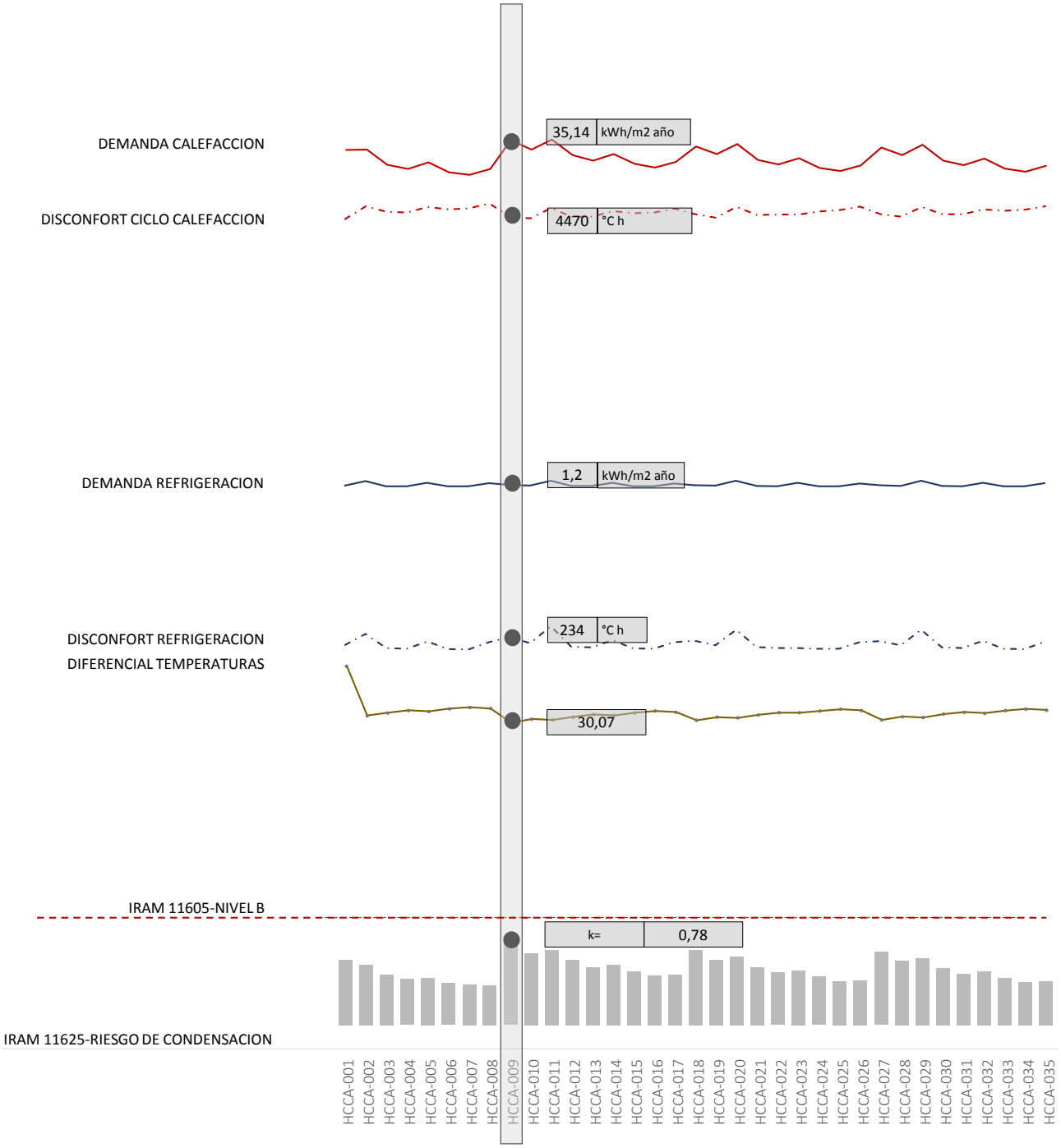



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,13** | kWh | 1,20 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.229,99** | kWh | 35,14 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.272,12** | kWh | **36,35** | kWh/m2/año |

| HCCA-009 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 163 | N° 166 | N° 150 | N° 058 | N° 026 | N° 123 |



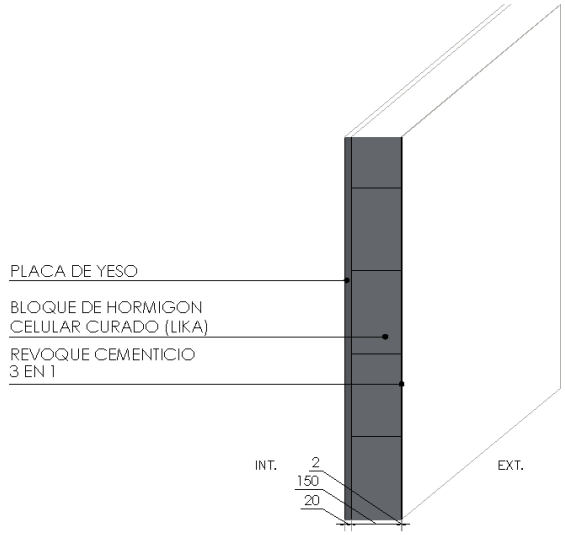

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,78 | 0% | 30,07 | 35,14 | 1,20 | 4470,00 | 234,00 |
| INC. FAMILIA | 147,66% | 0% | 96,93% | 112,04% | 99,17% | 99,20% | 130,92% |
| INC. MUNDIAL | 65,58% | 0% | 97,59% | 85,45% | 19,99% | 100,19% | 45,78% |

| HCCA-010 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (LIKA 660) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

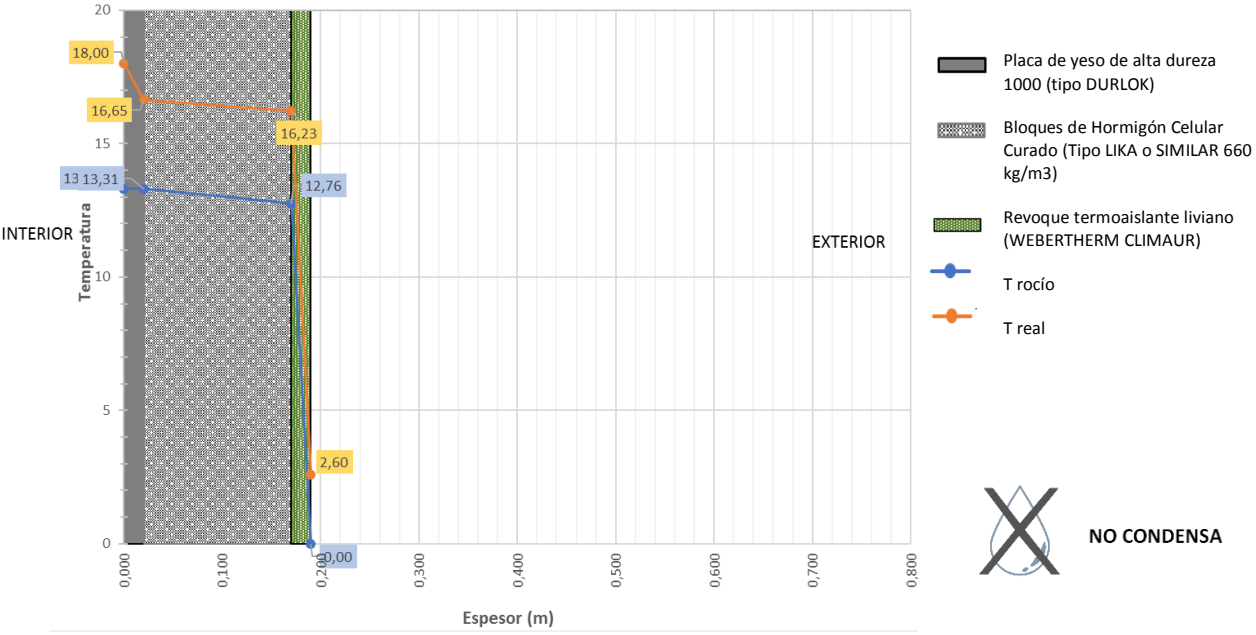
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,67 | 0,67 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



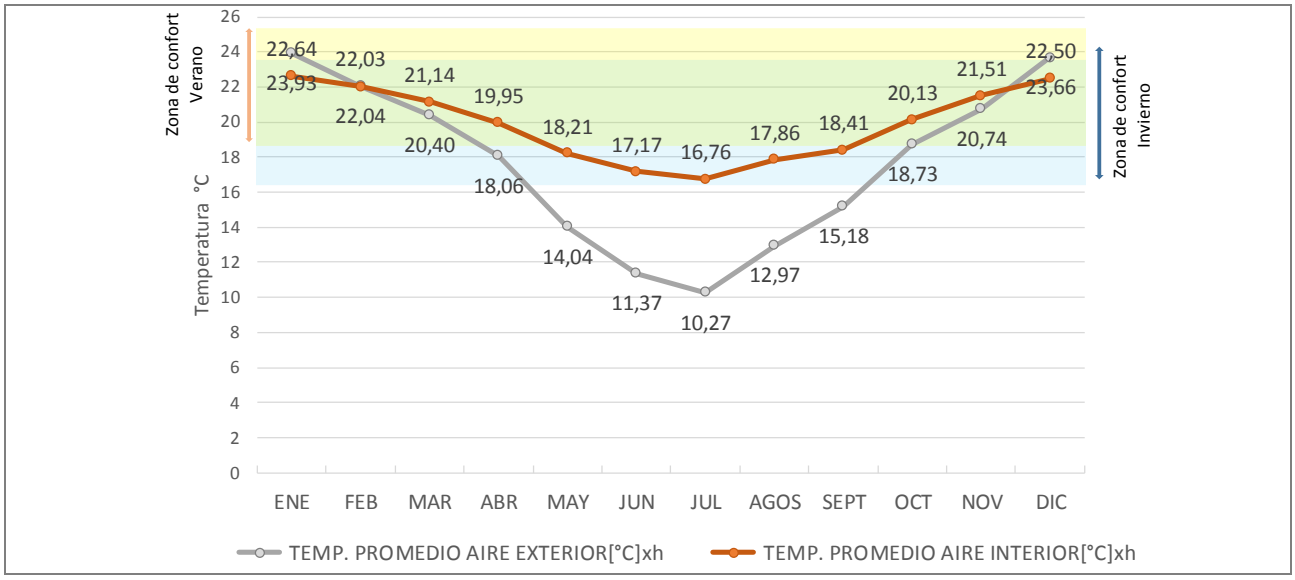

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 24,9 | 27,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,1** | **9,5** |
| | **Amortiguamiento:** | 0,035 | 0,029 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,7** | **7,4** |
| | **Amortiguamiento:** | 0,175 | 0,142 |

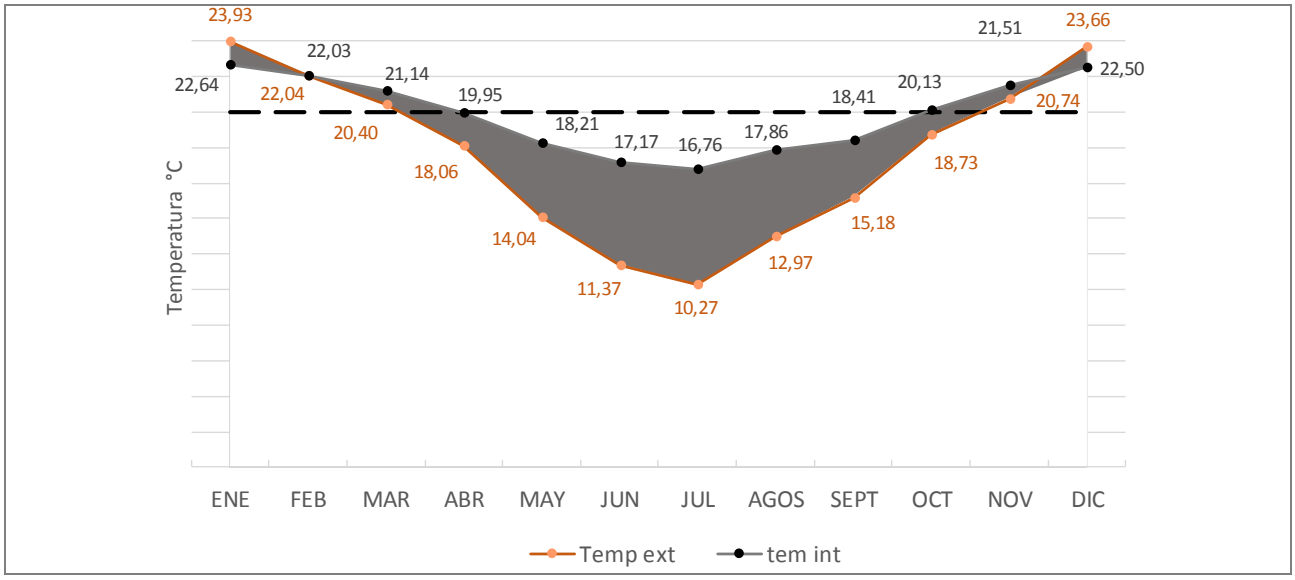
| HCCA-010 | MU | HCCA |
|---|---|---|

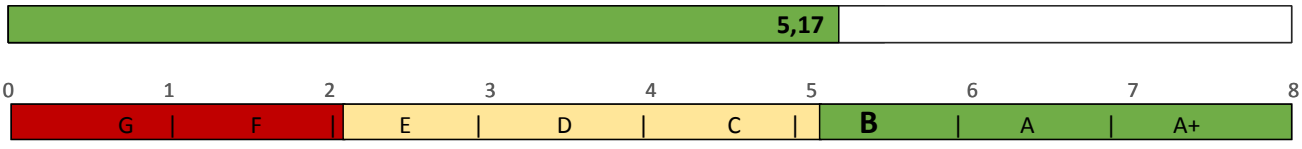
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,83** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,35** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



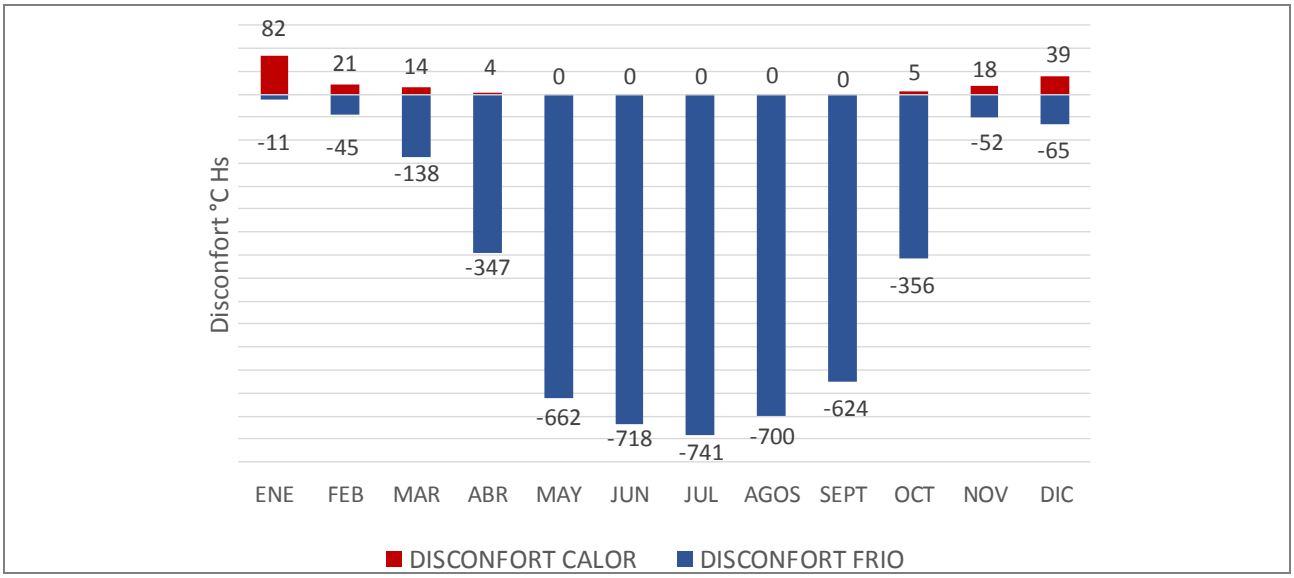




5,17 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| HCCA-010 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

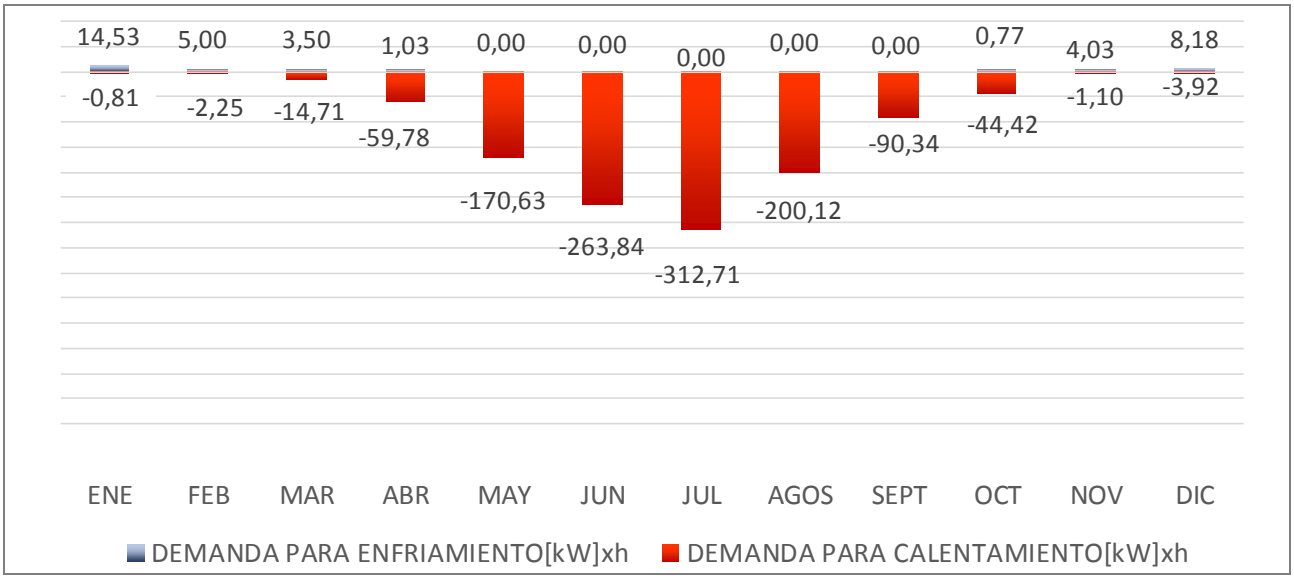
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **183** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.458** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.641** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

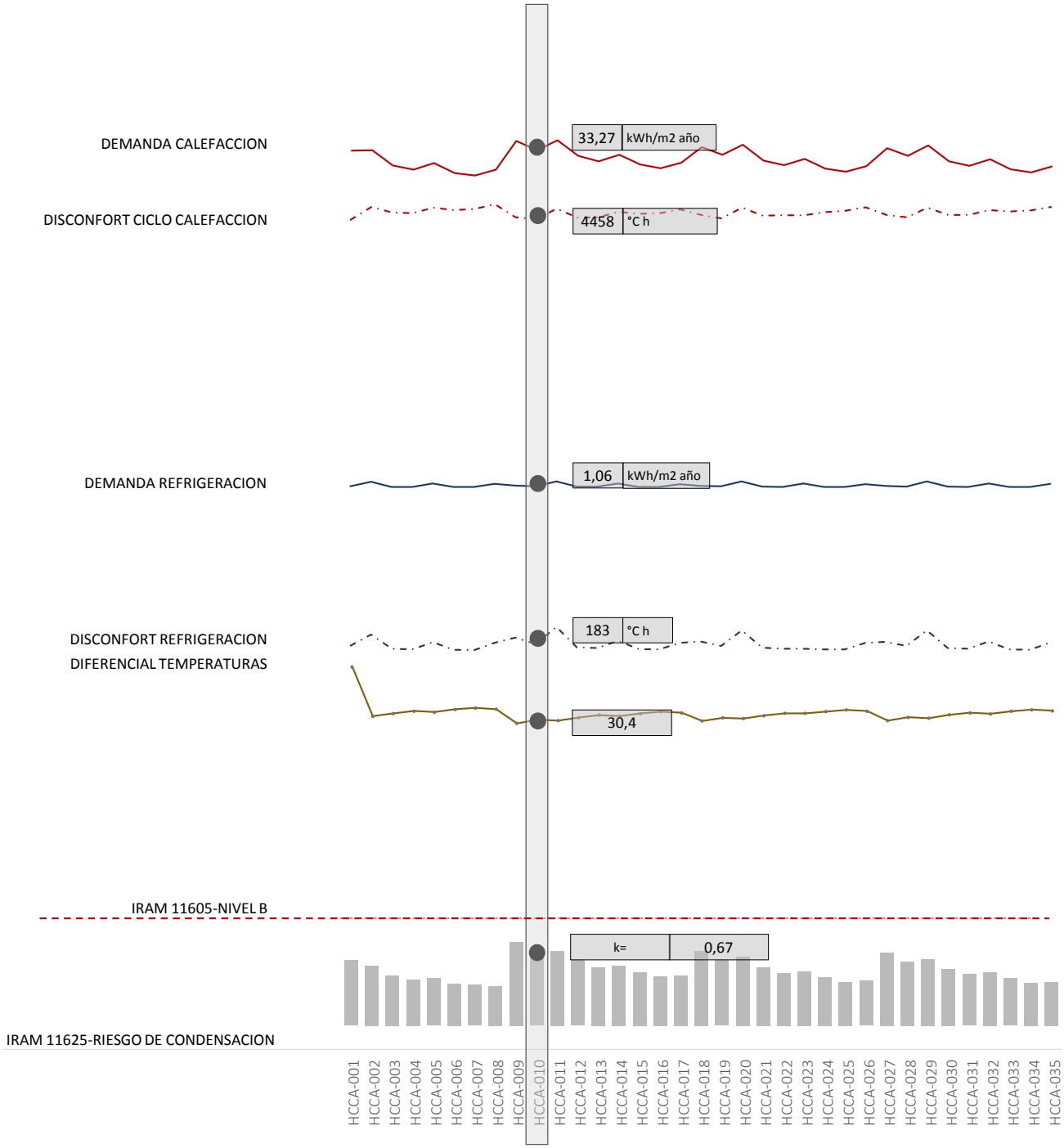



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **37,04** | kWh | 1,06 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.164,62** | kWh | 33,27 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.201,66** | kWh | **34,33** | kWh/m2/año |

| HCCA-010 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 153 | N° 154 | N° 137 | N° 033 | N° 019 | N° 062 |



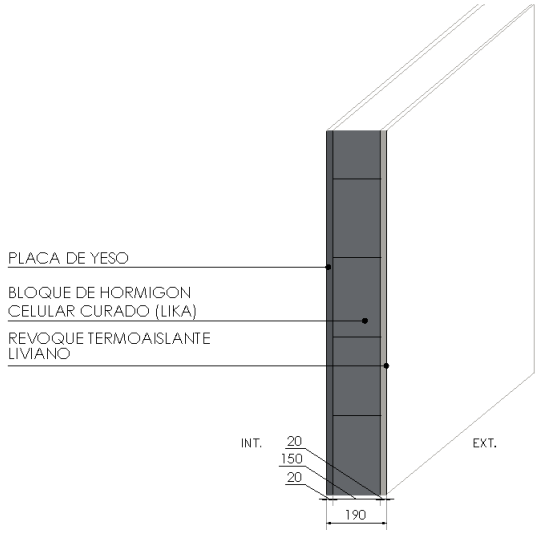

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,67 | 0% | 30,40 | 33,27 | 1,06 | 4458,00 | 183,00 |
| INC. FAMILIA | 126,84% | 0% | 98,00% | 106,08% | 87,60% | 98,93% | 102,39% |
| INC. MUNDIAL | 56,33% | 0% | 98,66% | 80,90% | 17,66% | 99,92% | 35,80% |

| HCCA-011 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (LIKA 660) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

## INDICE DE TRANSMITANCIA TERMICA "K"

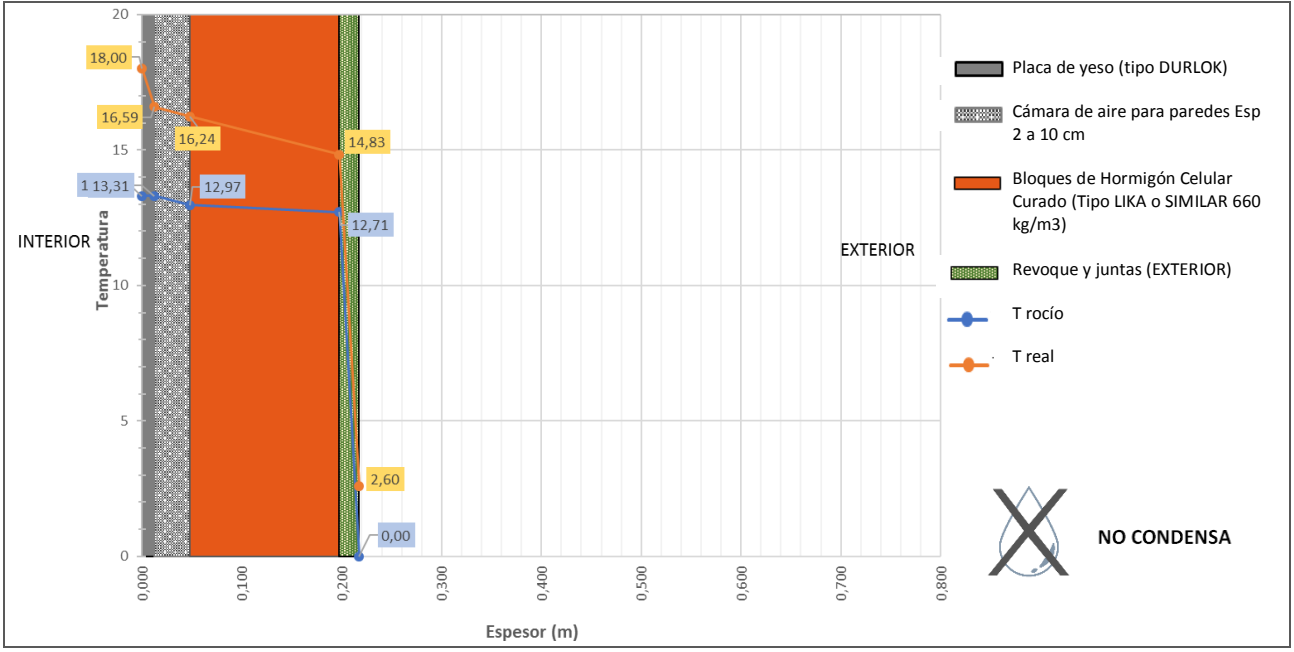
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,70 | 0,70 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



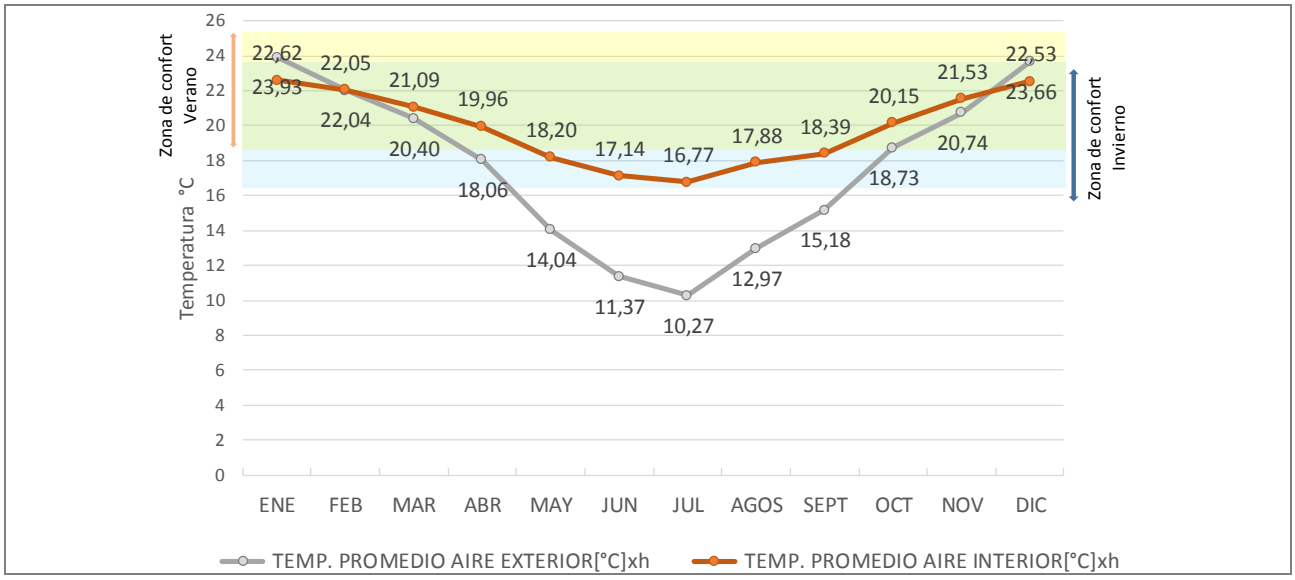

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 30,3 | 26,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,5** | **8,9** |
| | **Amortiguamiento:** | 0,029 | 0,037 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,9** | **6,2** |
| | **Amortiguamiento:** | 0,126 | 0,197 |

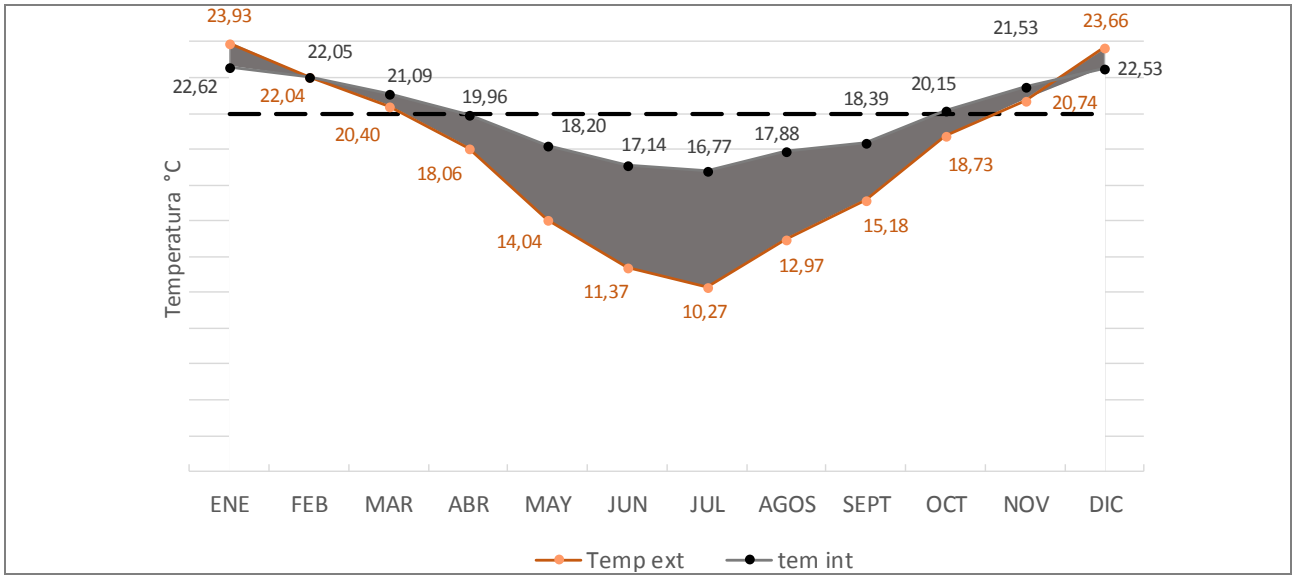
| HCCA-011 | MU | HCCA |
|---|---|---|

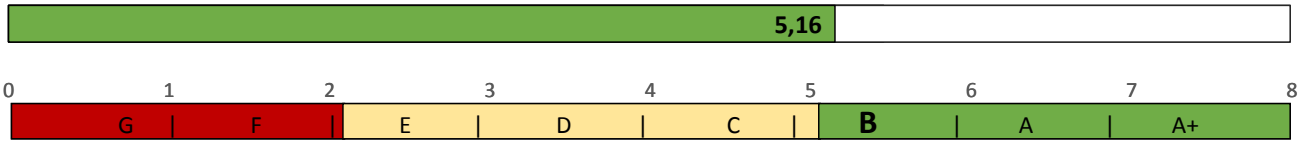
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **275,52** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,76** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



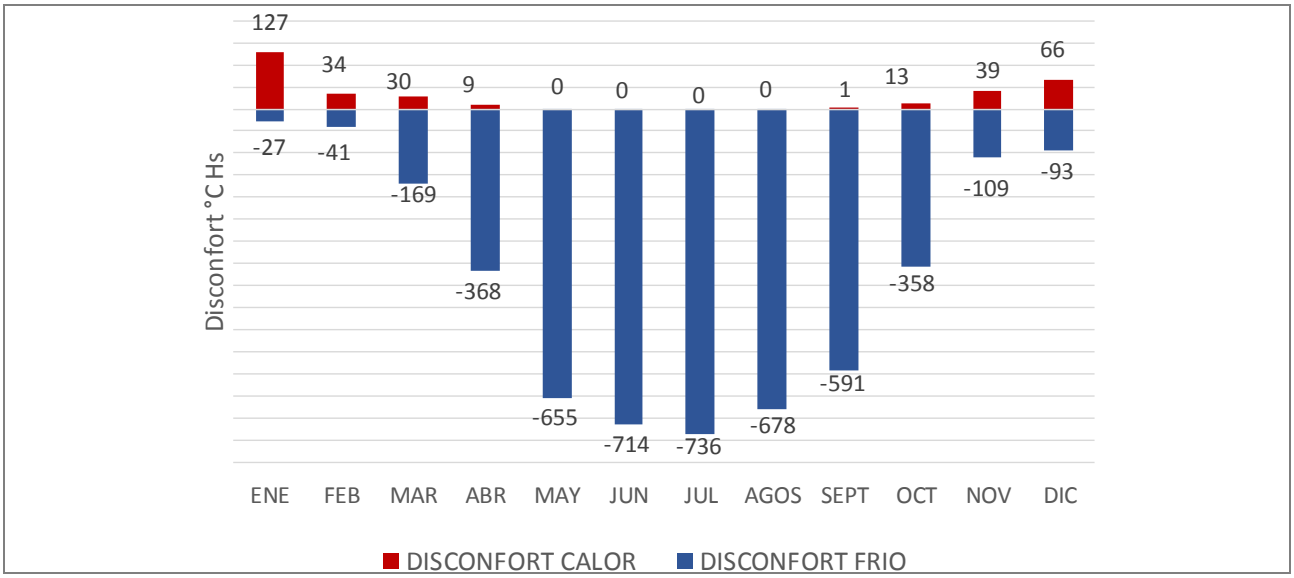




5,16 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| HCCA-011 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

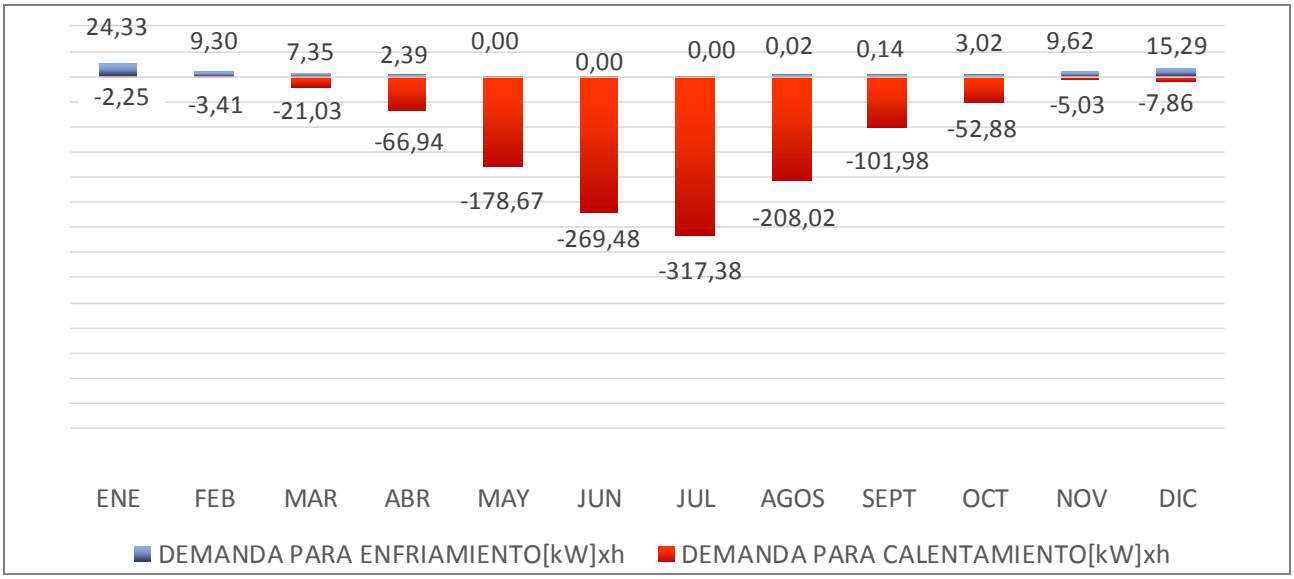
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **319** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.536** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.855** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

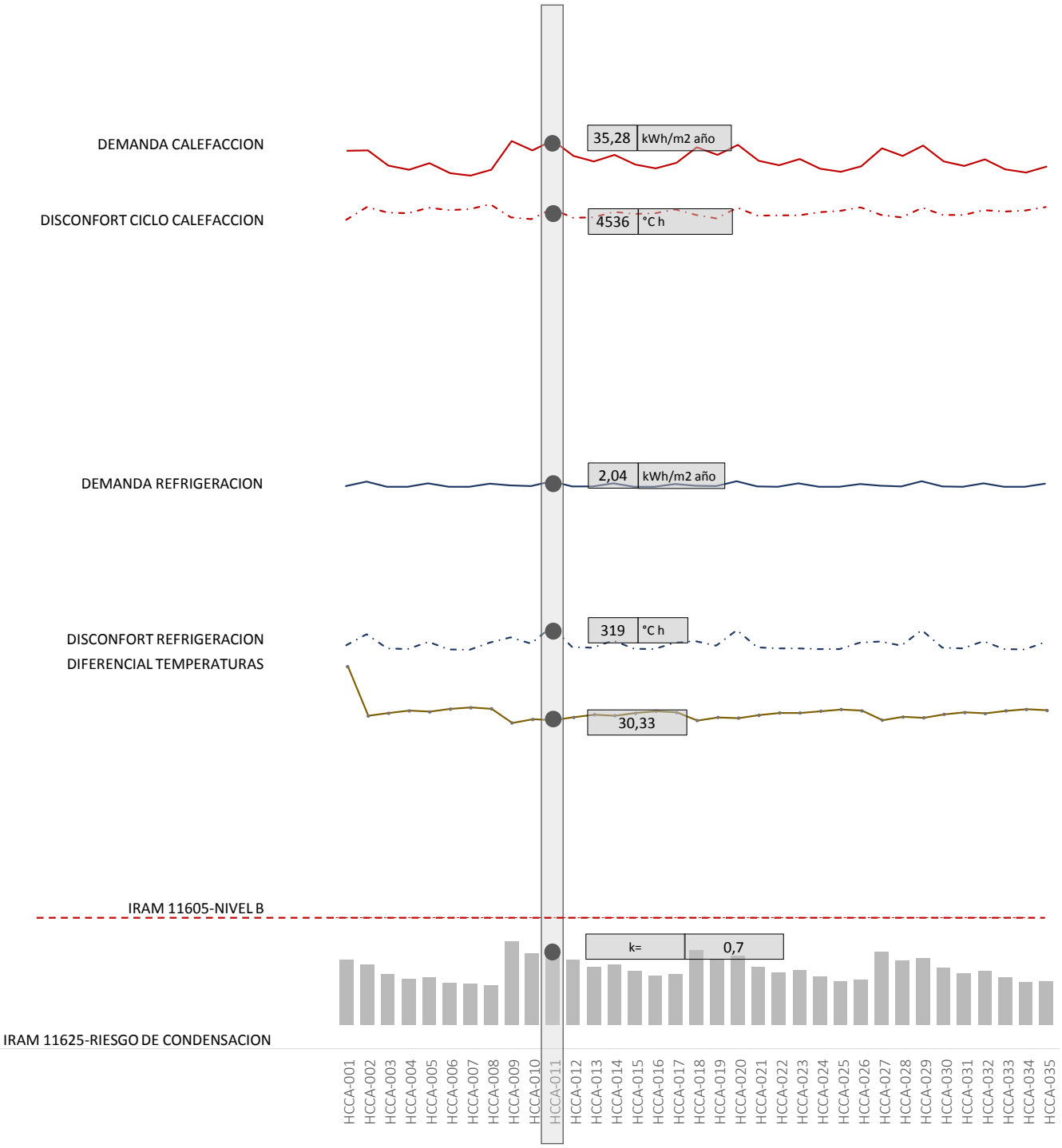



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **71,46** | kWh | 2,04 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.234,92** | kWh | 35,28 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.306,38** | kWh | **37,33** | kWh/m2/año |

| HCCA-011 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 156 | N° 156 | N° 152 | N° 149 | N° 092 | N° 148 |



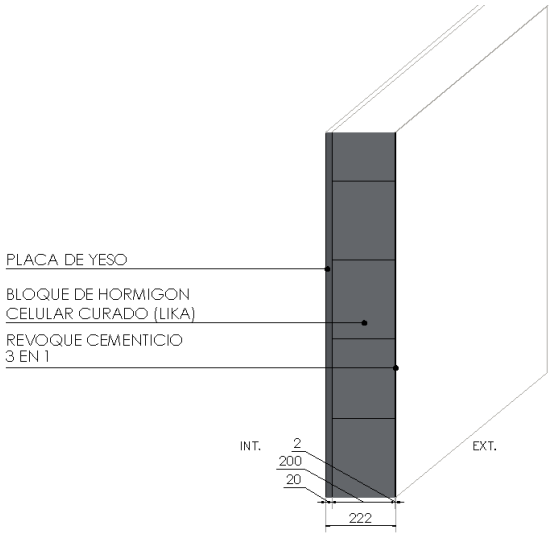

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,70 | 0% | 30,33 | 35,28 | 2,04 | 4536,00 | 319,00 |
| INC. FAMILIA | 132,52% | 0% | 97,77% | 112,49% | 168,60% | 100,66% | 178,48% |
| INC. MUNDIAL | 58,85% | 0% | 98,43% | 85,79% | 33,99% | 101,67% | 62,41% |

| HCCA-012 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (LIKA 660) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

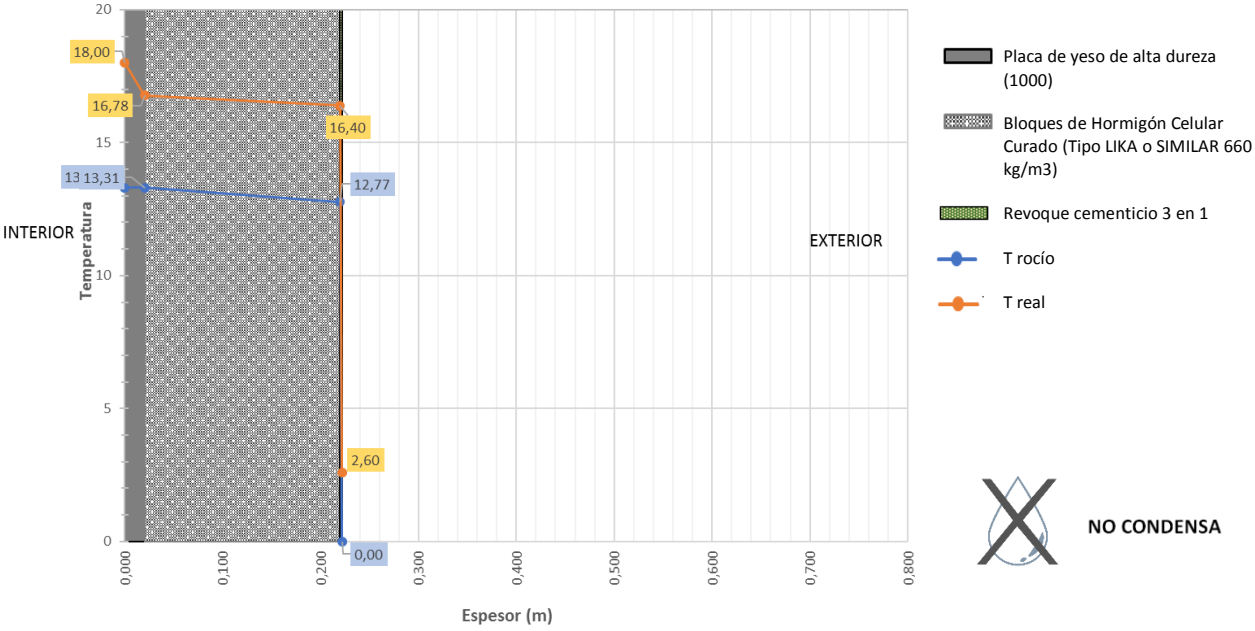
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,61 | 0,61 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



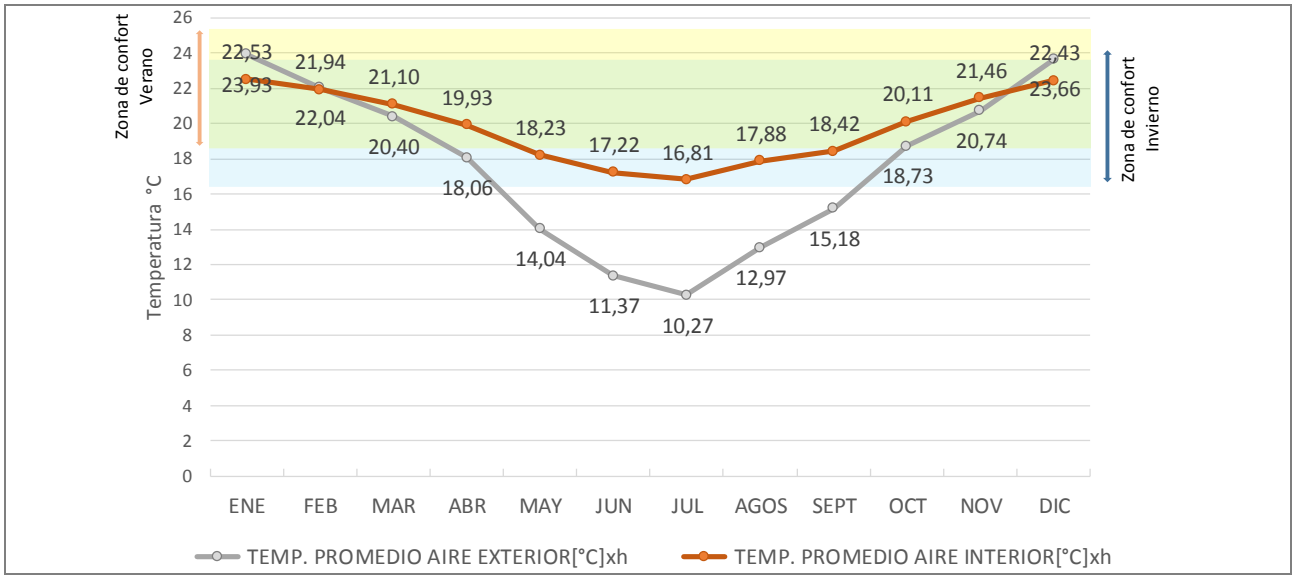

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 27,8 | Invierno 31,6 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **10,7** | **11,4** |
| | **Amortiguamiento:** | 0,019 | 0,015 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,1** | **8,3** |
| | **Amortiguamiento:** | 0,121 | 0,114 |

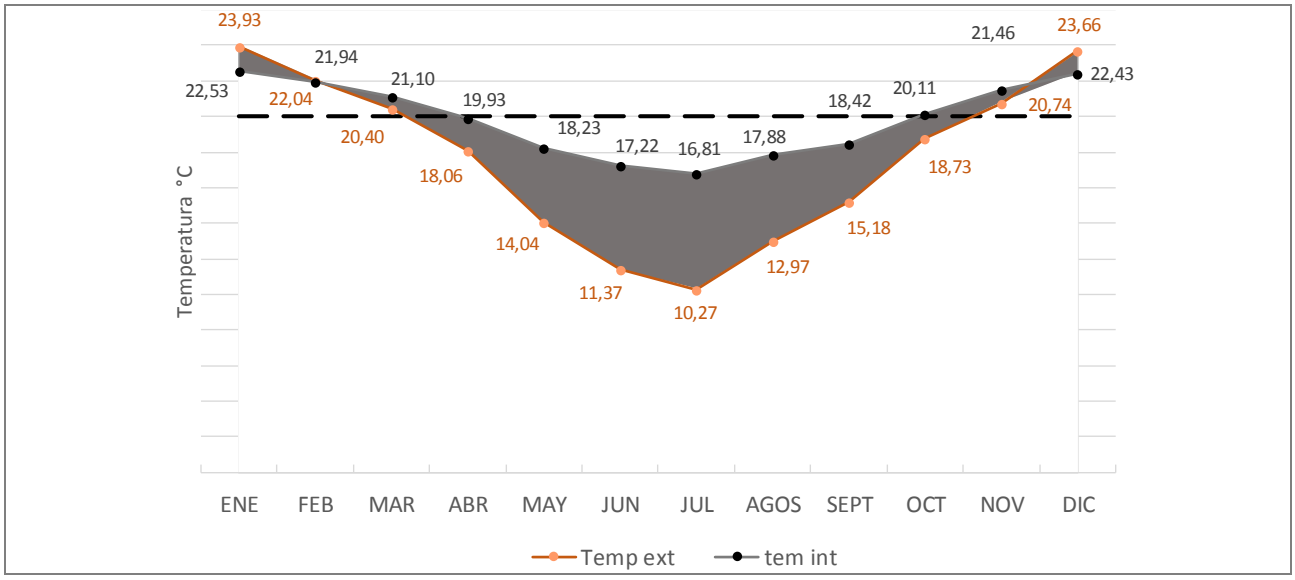
| HCCA-012 | MU | HCCA |
|---|---|---|

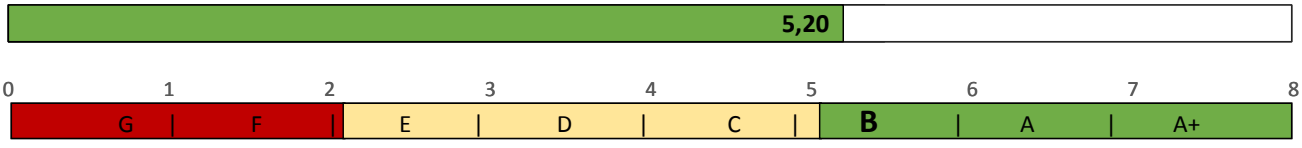
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,73** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,51** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



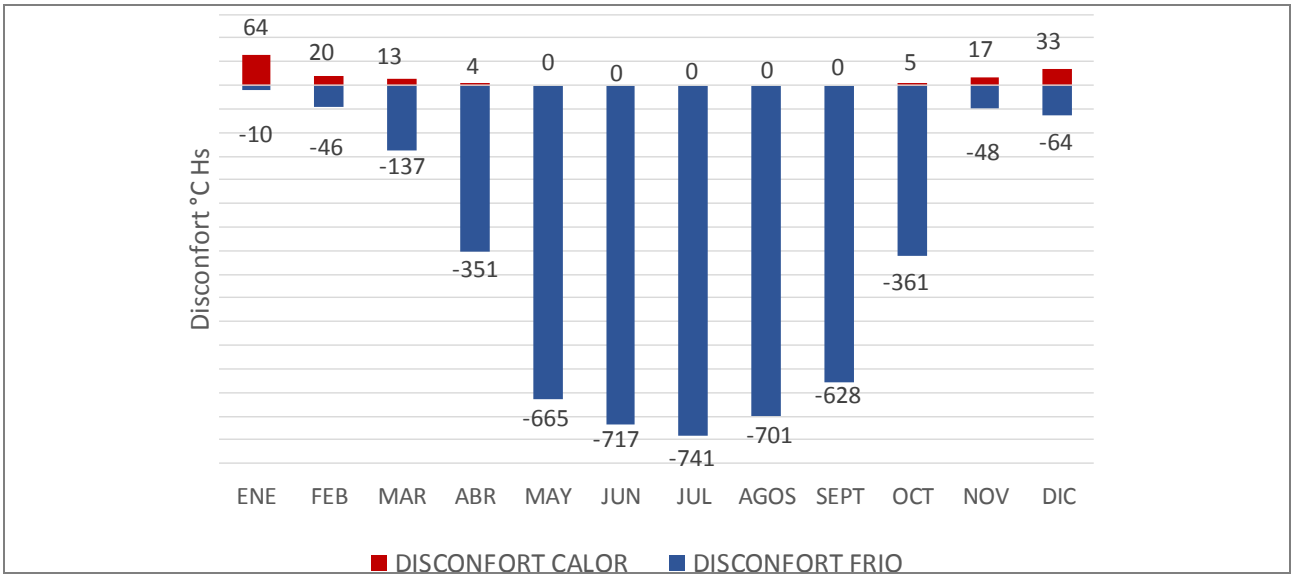




5,20 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| HCCA-012 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

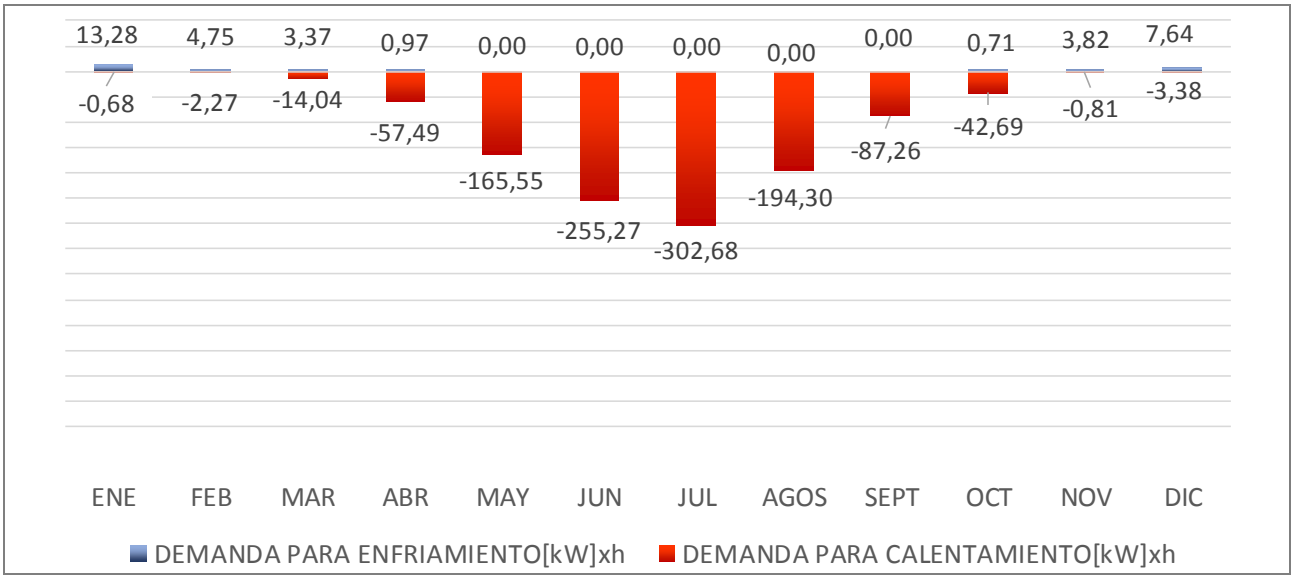
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **156** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.469** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.625** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

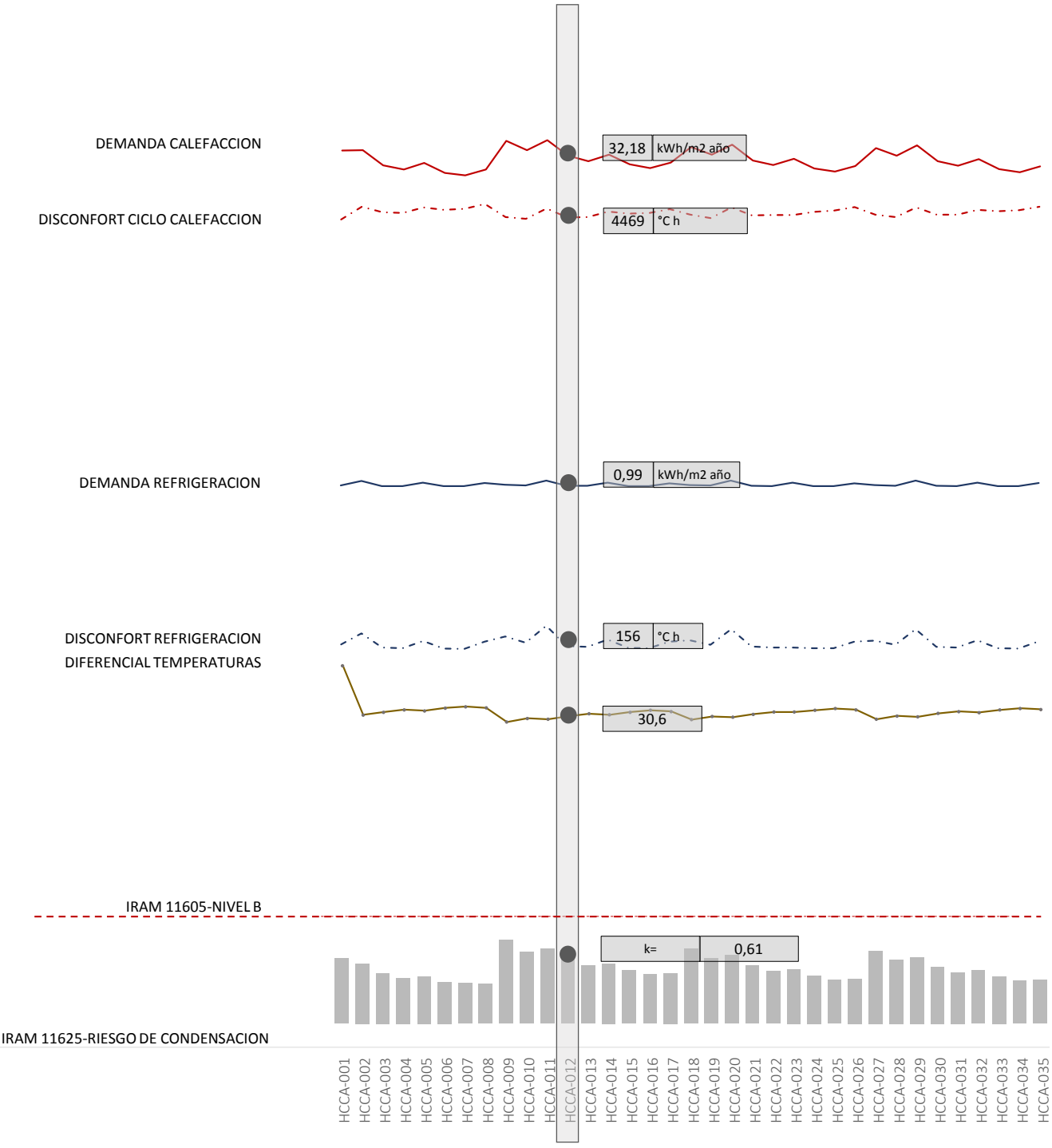



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **34,53** | kWh | 0,99 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.126,43** | kWh | 32,18 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.160,96** | kWh | **33,17** | kWh/m2/año |

| HCCA-012 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 145 | N° 146 | N° 115 | N° 026 | N° 024 | N° 030 |



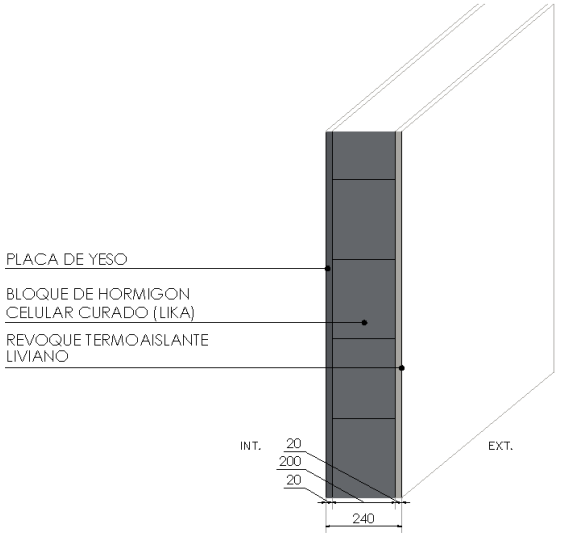

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,61 | 0% | 30,60 | 32,18 | 0,99 | 4469,00 | 156,00 |
| INC. FAMILIA | 115,48% | 0% | 98,64% | 102,61% | 81,82% | 99,18% | 87,28% |
| INC. MUNDIAL | 51,29% | 0% | 99,31% | 78,25% | 16,50% | 100,17% | 30,52% |

| HCCA-013 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (LIKA 660) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

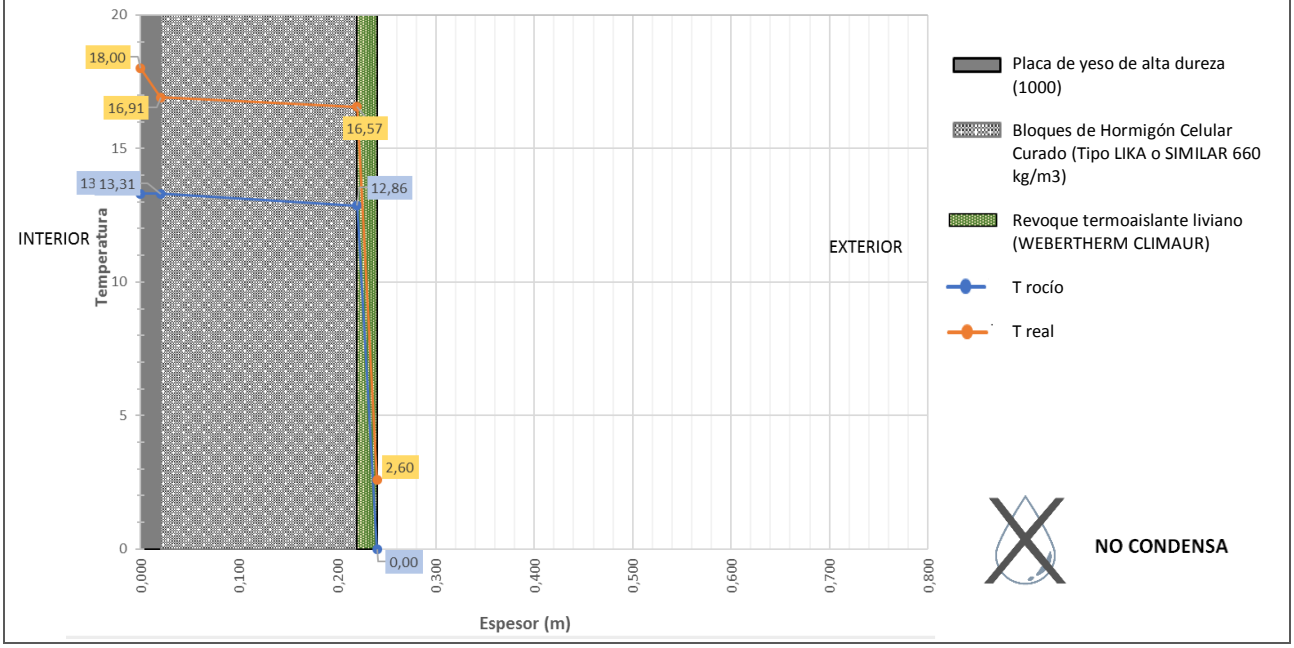
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,54 | 0,54 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



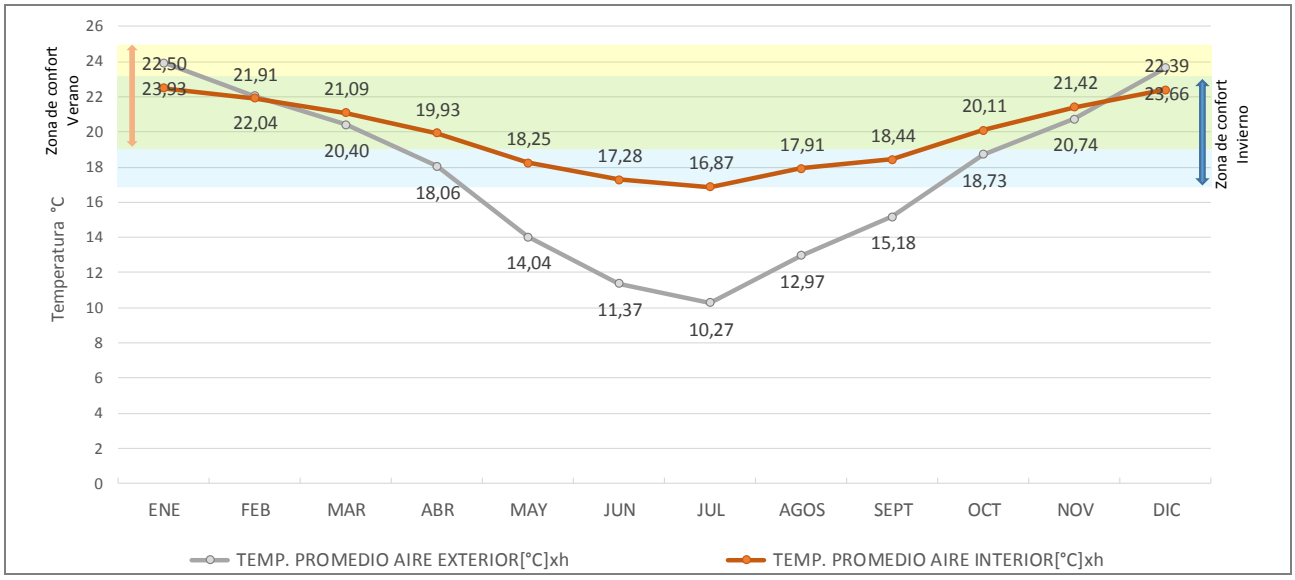

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 25,6 | 27,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,7** | **12,2** |
| | **Amortiguamiento:** | 0,013 | 0,011 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,4** | **9,2** |
| | **Amortiguamiento:** | 0,111 | 0,089 |

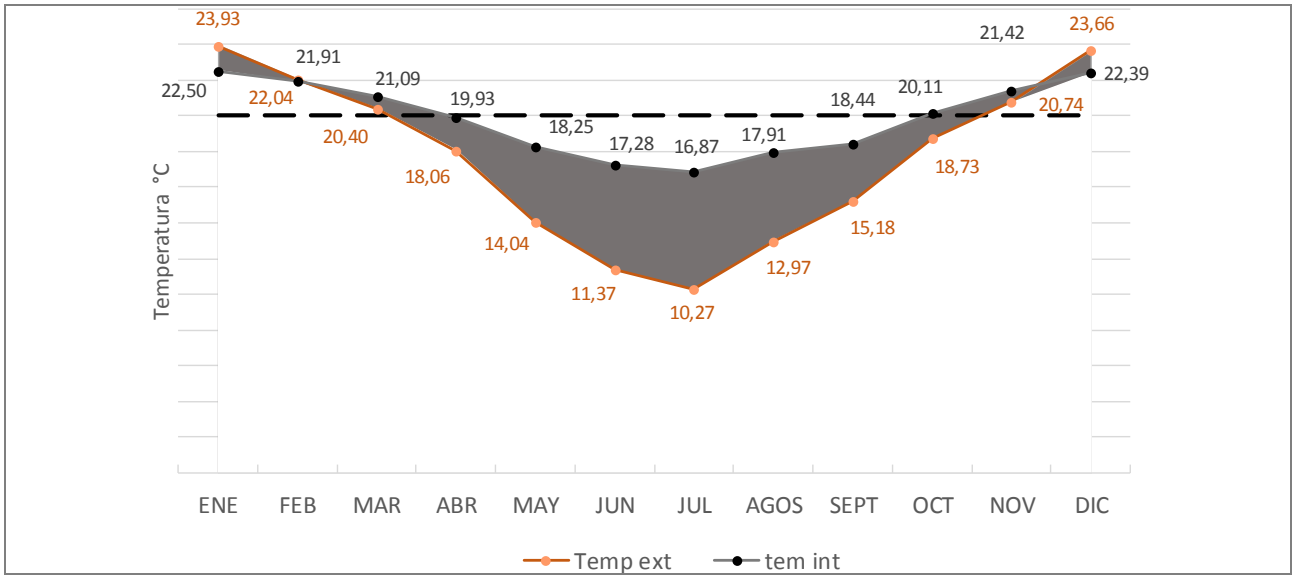
| HCCA-013 | MU | HCCA |
|---|---|---|

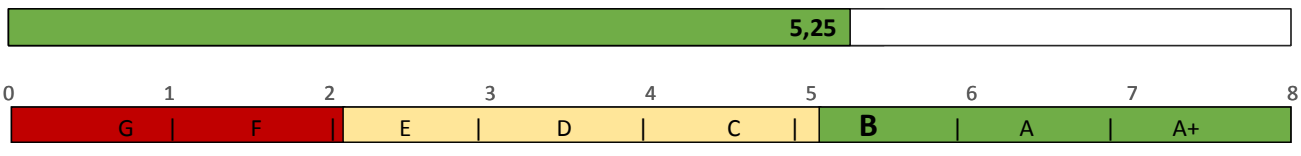
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 19:00 hs | **24,69** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,64** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



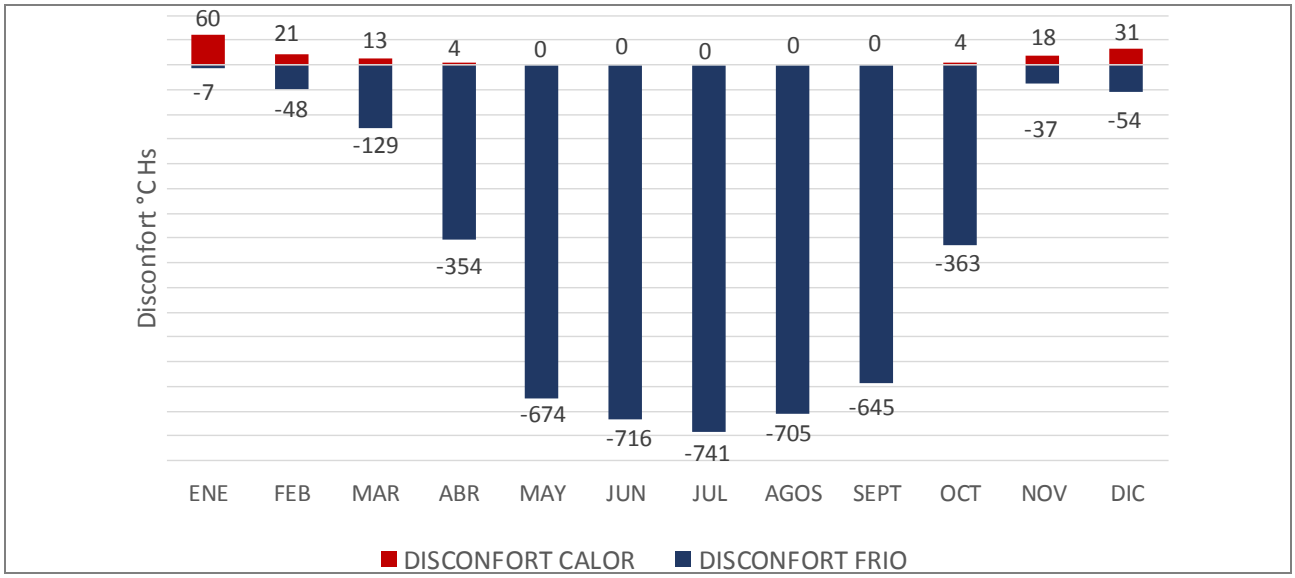




5,25 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-013 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

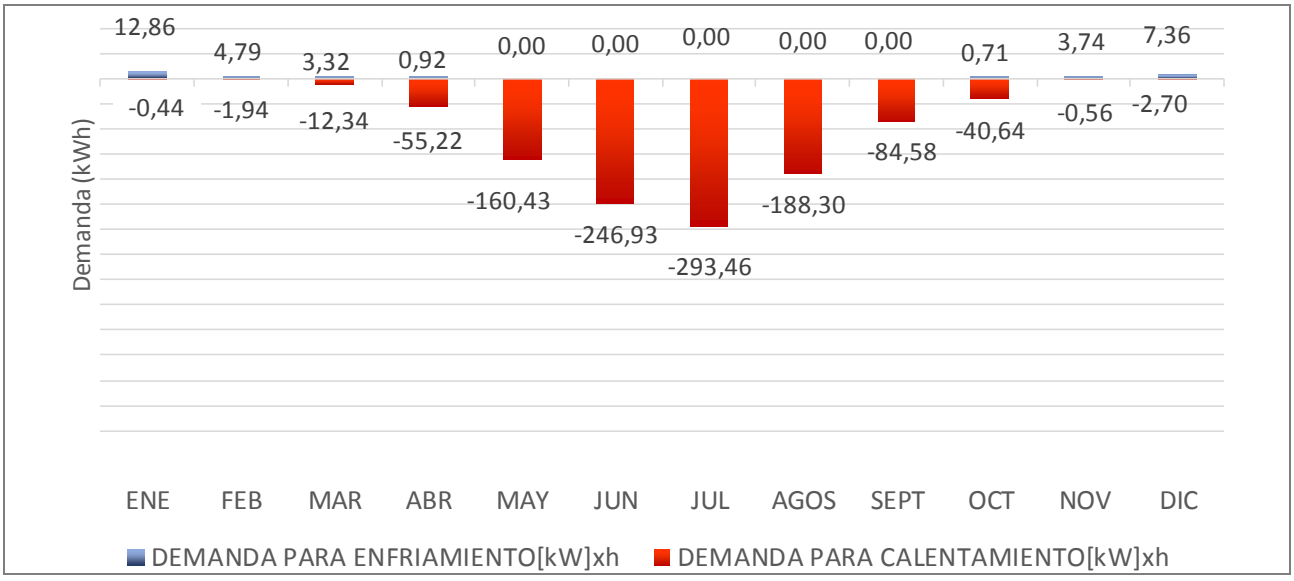
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **150** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.472** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.622** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

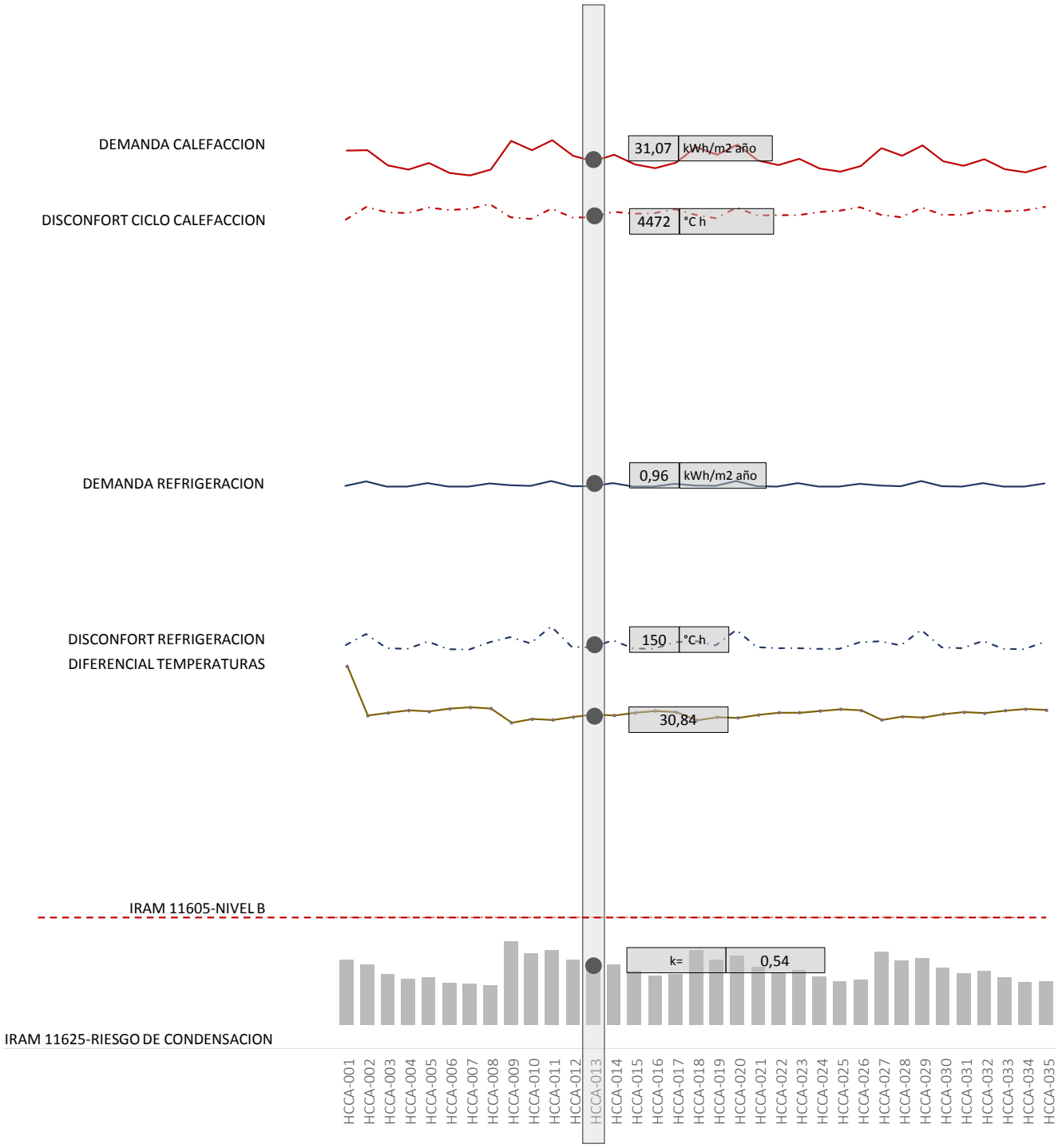



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **33,70** | kWh | 0,96 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.087,54** | kWh | 31,07 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.121,25** | kWh | **32,04** | kWh/m2/año |

| HCCA-013 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 133 | N° 129 | N° 099 | N° 024 | N° 030 | N° 023 |



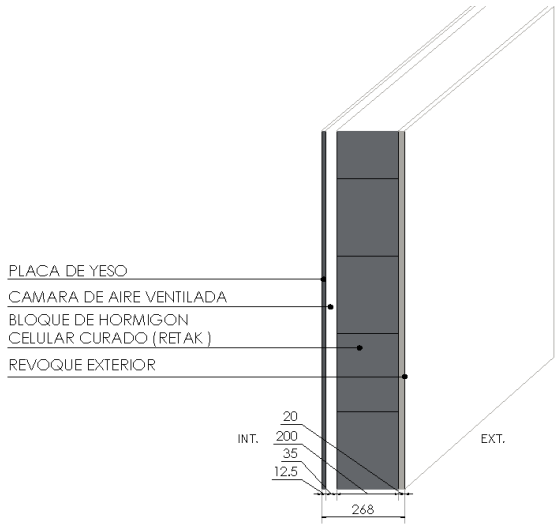

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,54 | 0% | 30,84 | 31,07 | 0,96 | 4472,00 | 150,00 |
| INC. FAMILIA | 102,23% | 0% | 99,42% | 99,07% | 79,34% | 99,24% | 83,92% |
| INC. MUNDIAL | 45,40% | 0% | 100,09% | 75,55% | 16,00% | 100,23% | 29,35% |

| HCCA-014 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (LIKA 660) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

## INDICE DE TRANSMITANCIA TERMICA "K"

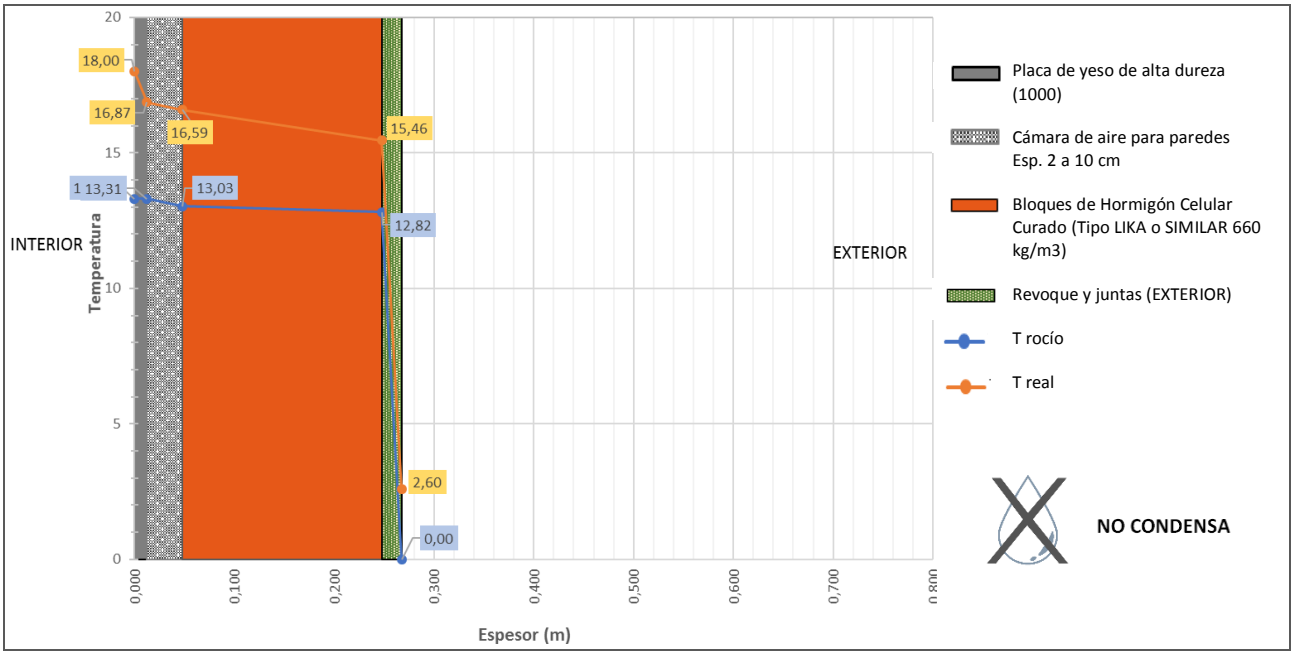
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,56 | 0,56 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



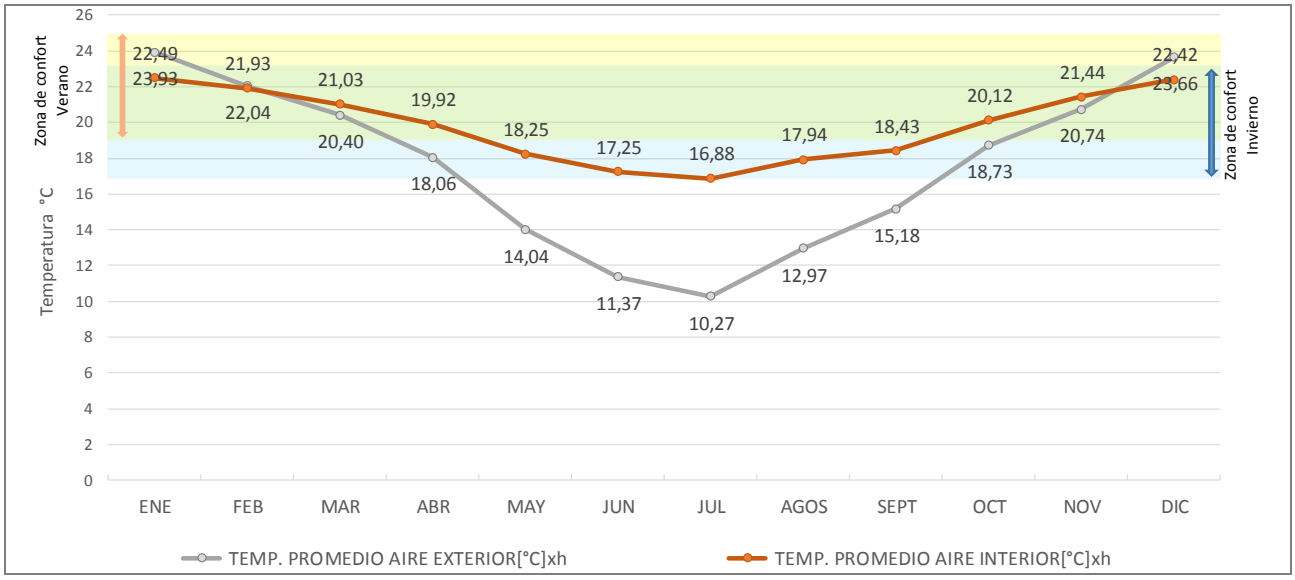

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 29,9 | 27,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,1** | **11,5** |
| | **Amortiguamiento:** | 0,011 | 0,014 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **9,7** | **8,0** |
| | **Amortiguamiento:** | 0,079 | 0,124 |

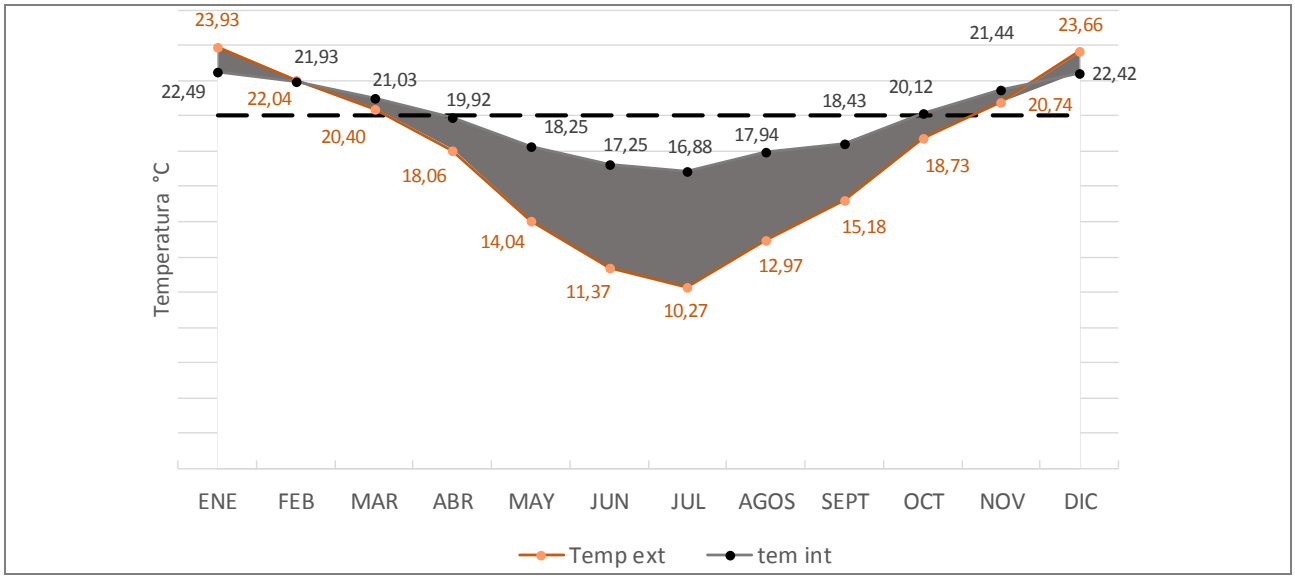
| HCCA-014 | MU | HCCA |
|---|---|---|

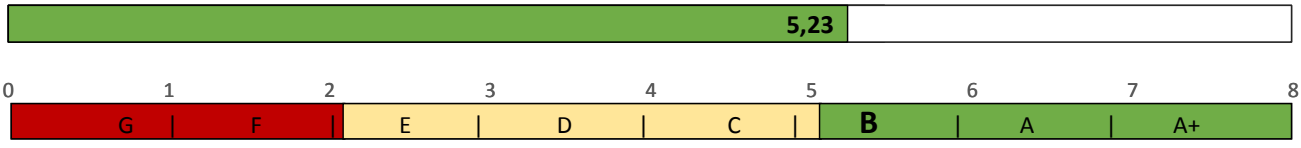
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **25,02** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,31** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



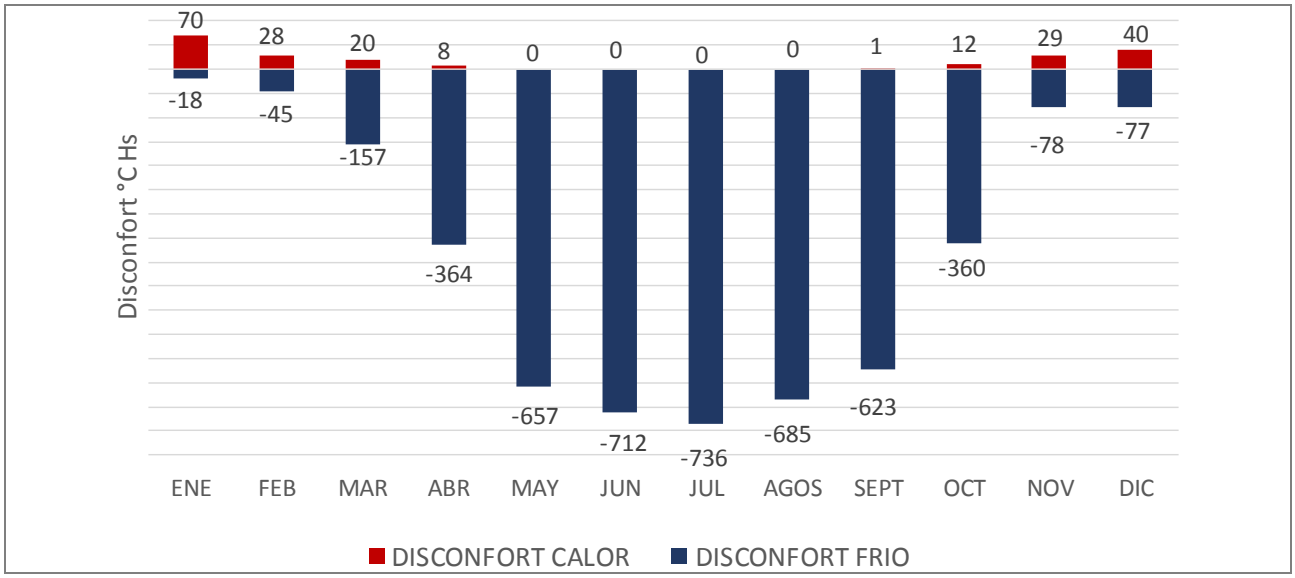




5,23 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| HCCA-014 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

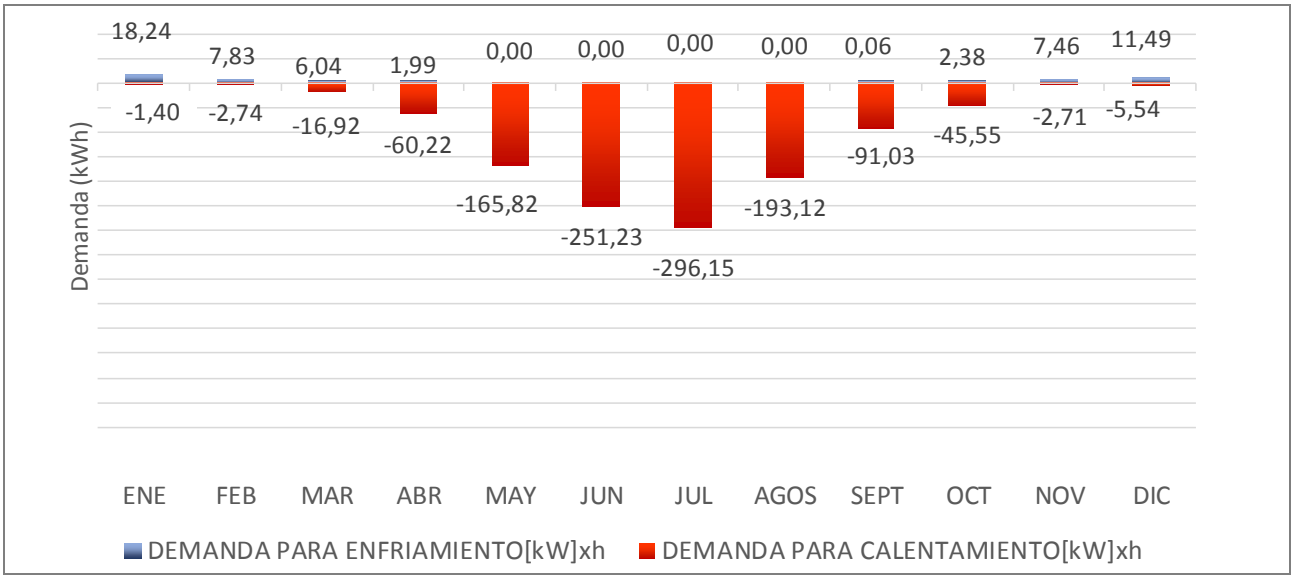
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **207** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.512** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.719** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

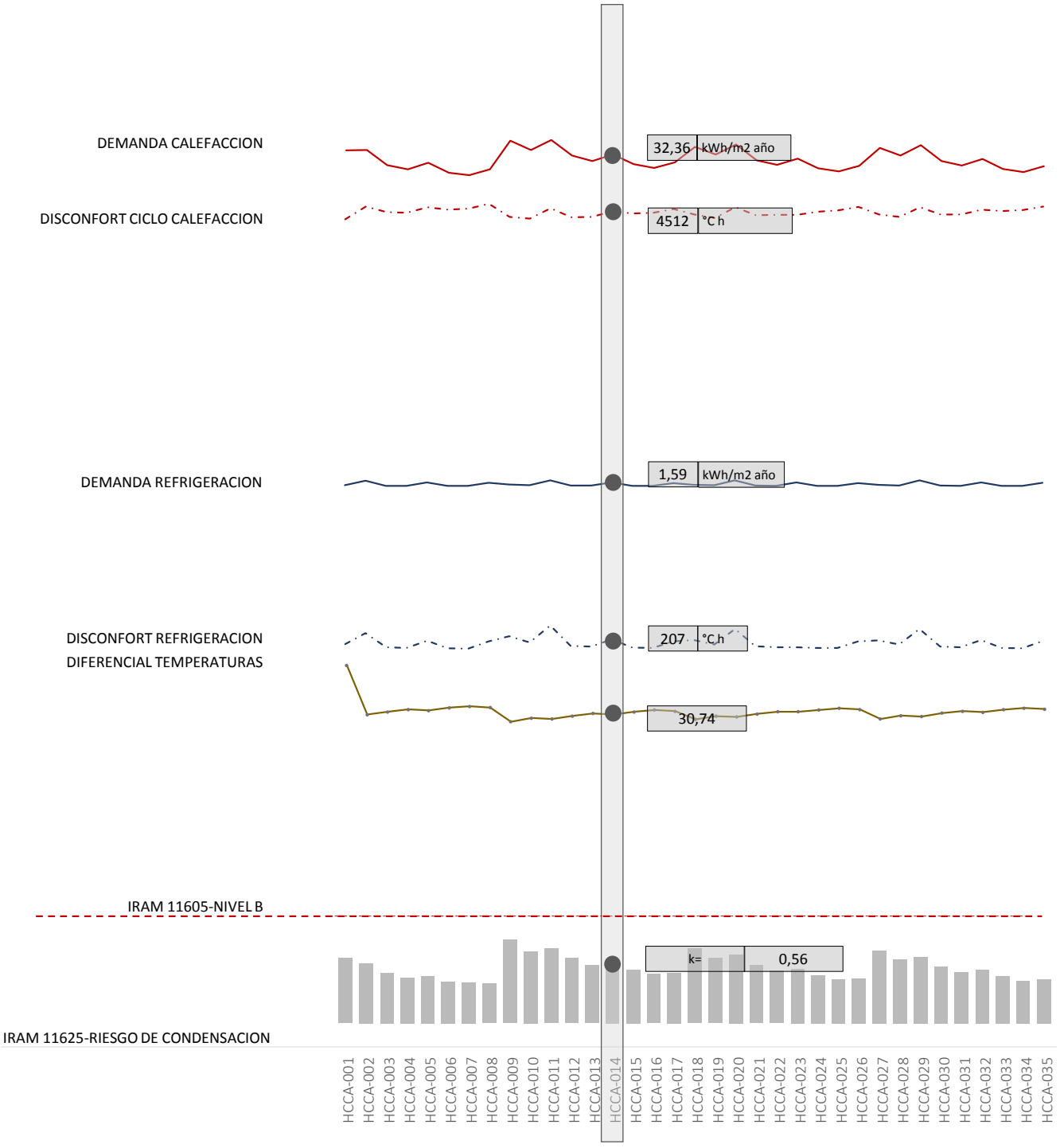



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **55,48** | kWh | 1,59 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.132,43** | kWh | 32,36 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.187,91** | kWh | **33,94** | kWh/m2/año |

| HCCA-014 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 138 | N° 139 | N° 118 | N° 121 | N° 067 | N° 103 |



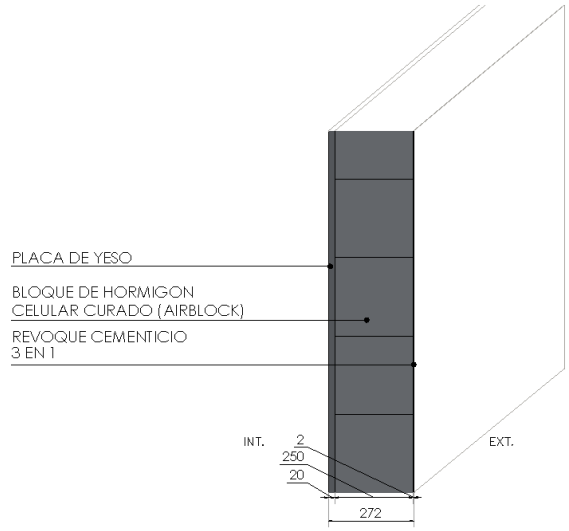

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,56 | 0% | 30,75 | 32,36 | 1,59 | 4512,00 | 207,00 |
| INC. FAMILIA | 106,01% | 0% | 99,12% | 103,18% | 131,40% | 100,13% | 115,81% |
| INC. MUNDIAL | 47,08% | 0% | 99,79% | 78,69% | 26,49% | 101,13% | 40,50% |

| HCCA-015 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (LIKA 660) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

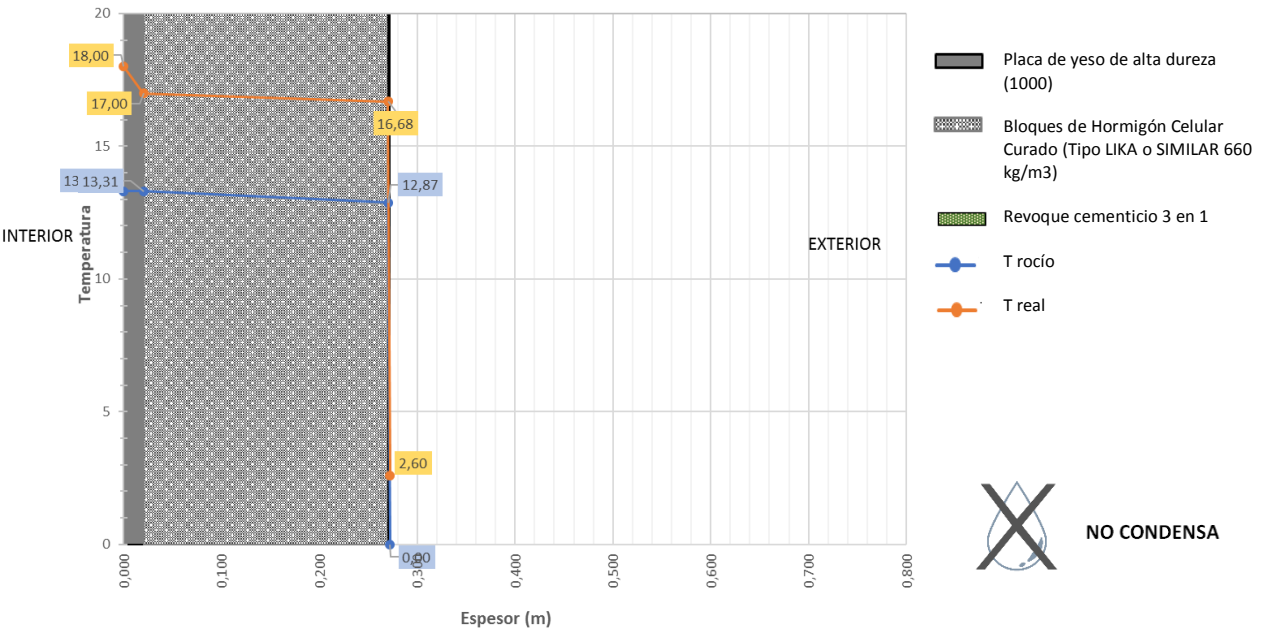
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,50 | 0,50 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



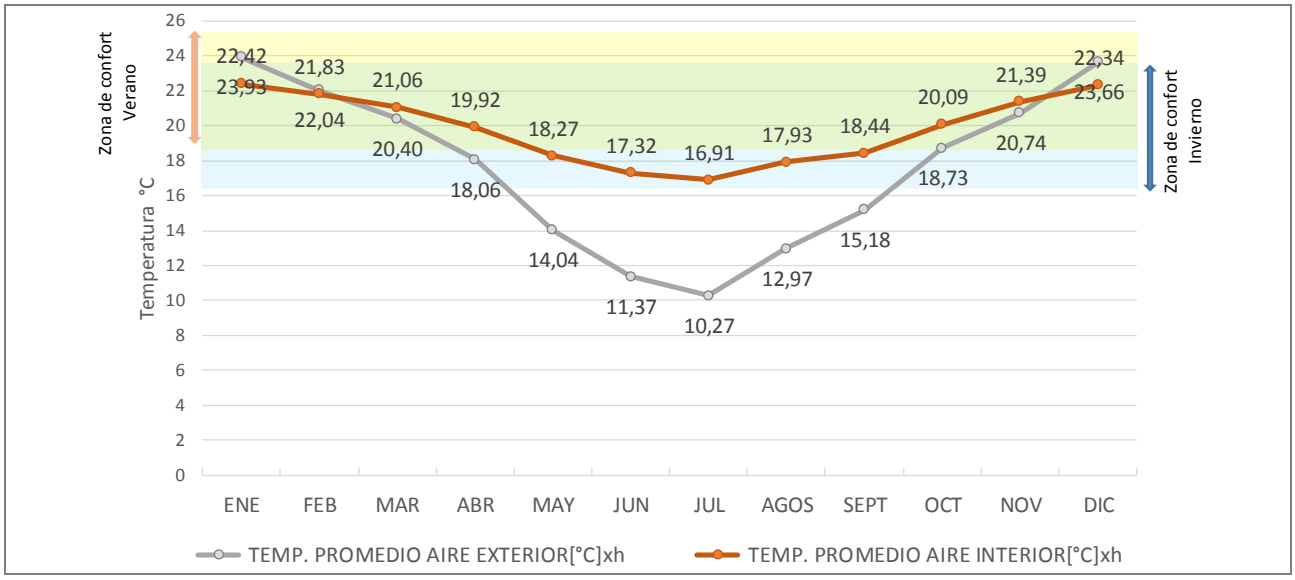

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 27,9 | Invierno 30,9 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **13,3** | **14,0** |
| | **Amortiguamiento:** | 0,007 | 0,006 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **9,8** | **10,1** |
| | **Amortiguamiento:** | 0,076 | 0,072 |

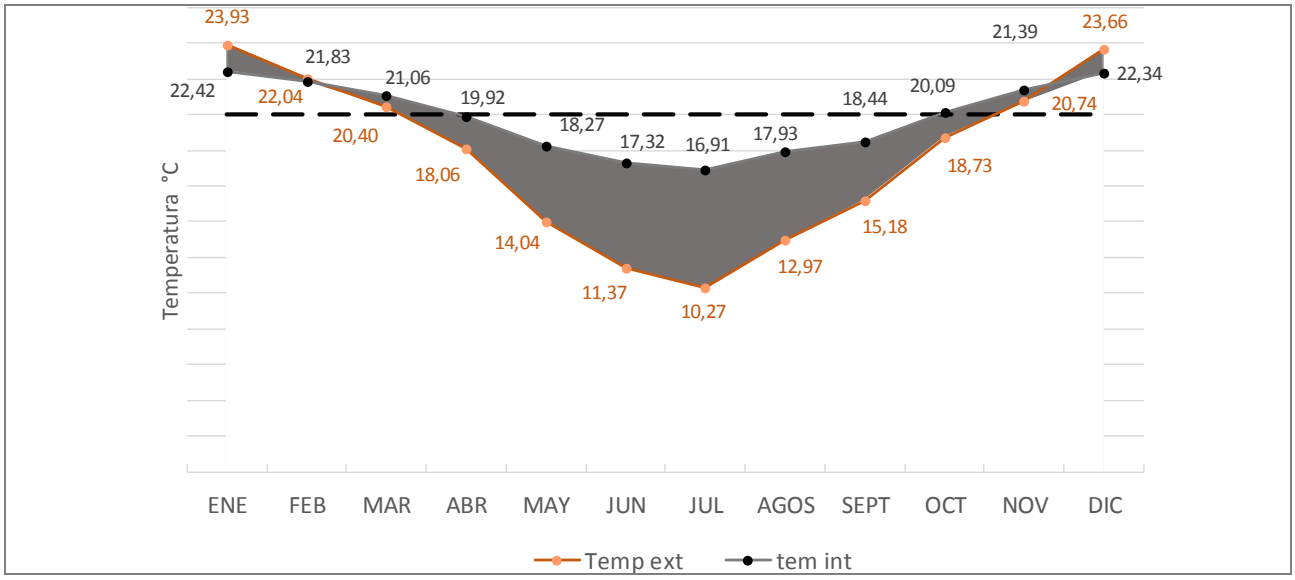
| HCCA-015 | MU | HCCA |
|---|---|---|

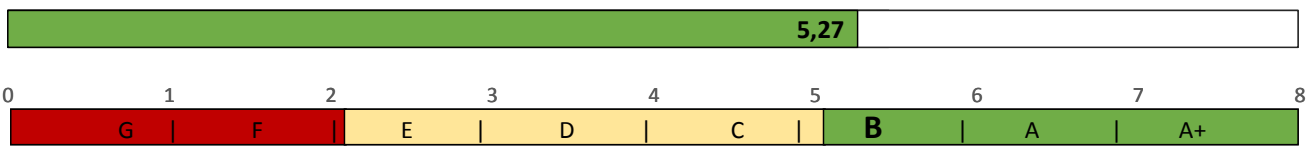
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 19:00 hs | **24,64** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,73** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



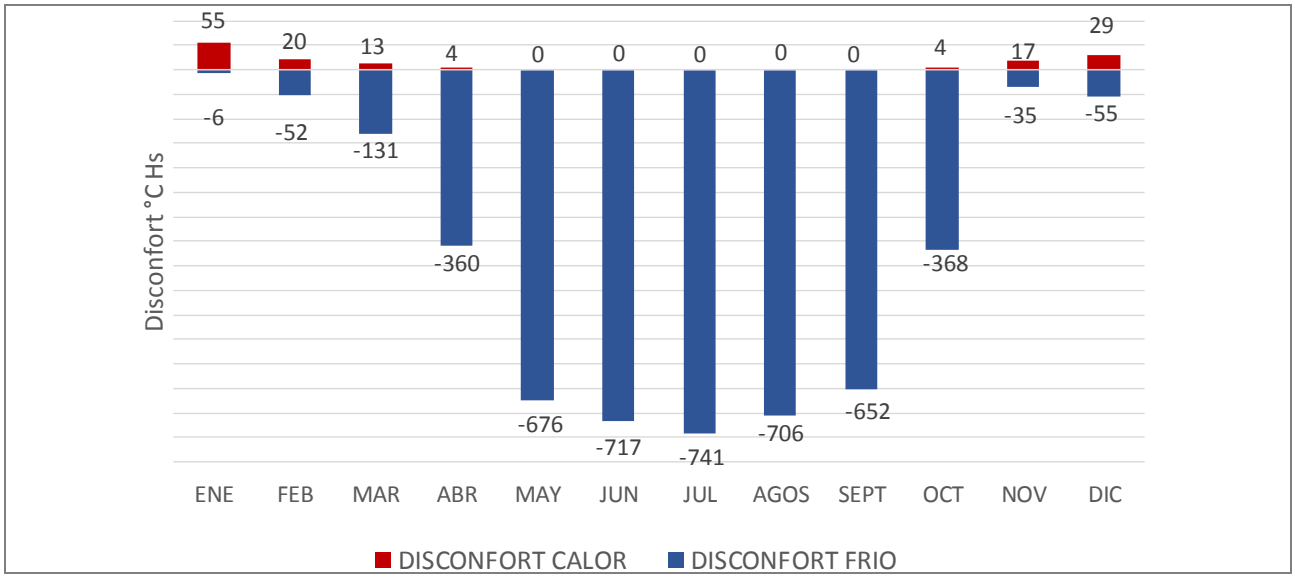




5,27 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-015 | MU | HCCA |
|---|---|---|

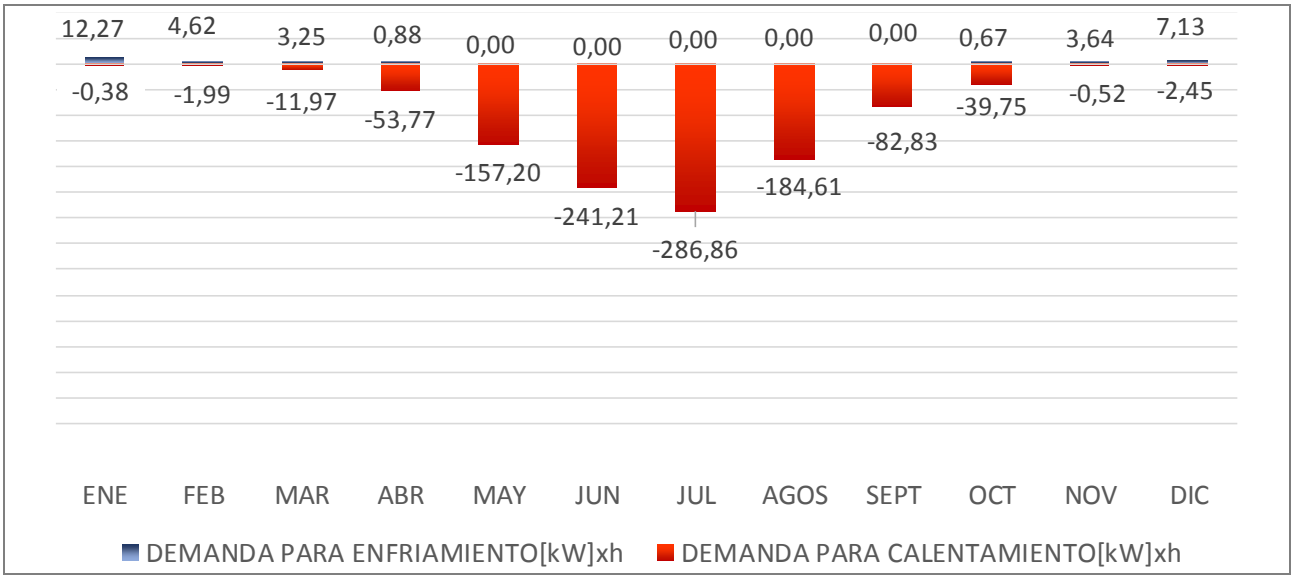
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **142** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.498** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.639** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

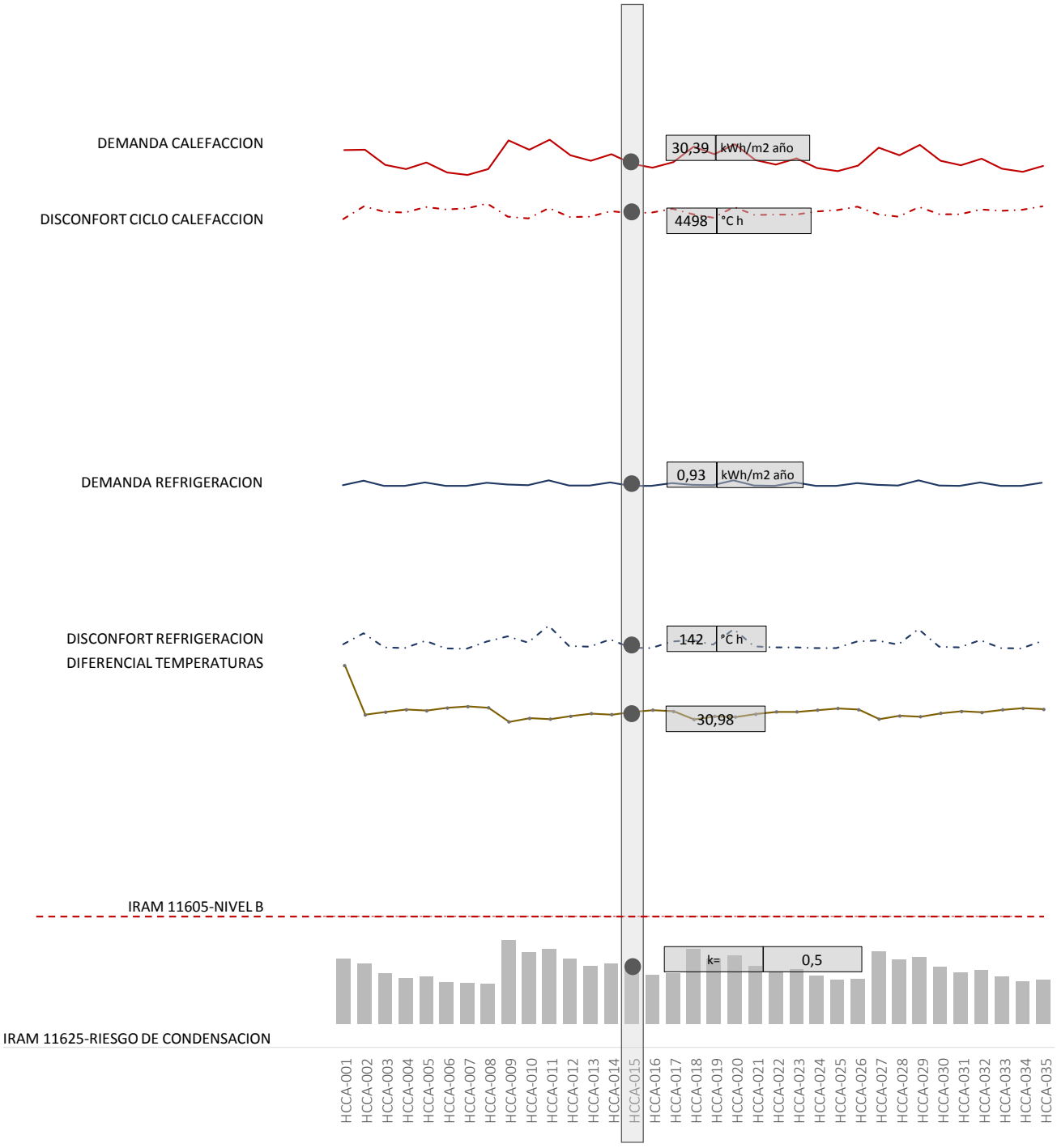



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **32,46** | kWh | 0,93 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.063,54** | kWh | 30,39 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.096,00** | kWh | **31,31** | kWh/m2/año |

| HCCA-015 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 122 | N° 112 | N° 084 | N° 019 | N° 053 | N° 017 |



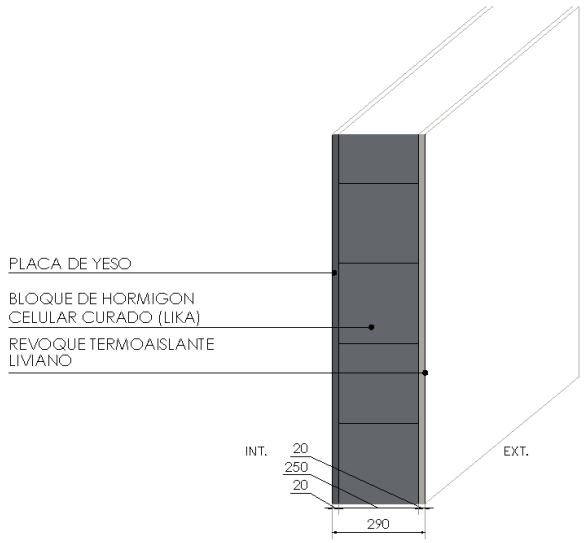

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,50 | 0% | 30,98 | 30,39 | 0,93 | 4498,00 | 142,00 |
| INC. FAMILIA | 94,65% | 0% | 99,87% | 96,90% | 76,86% | 99,82% | 79,45% |
| INC. MUNDIAL | 42,04% | 0% | 100,54% | 73,90% | 15,50% | 100,82% | 27,78% |

| HCCA-016 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (LIKA 660) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

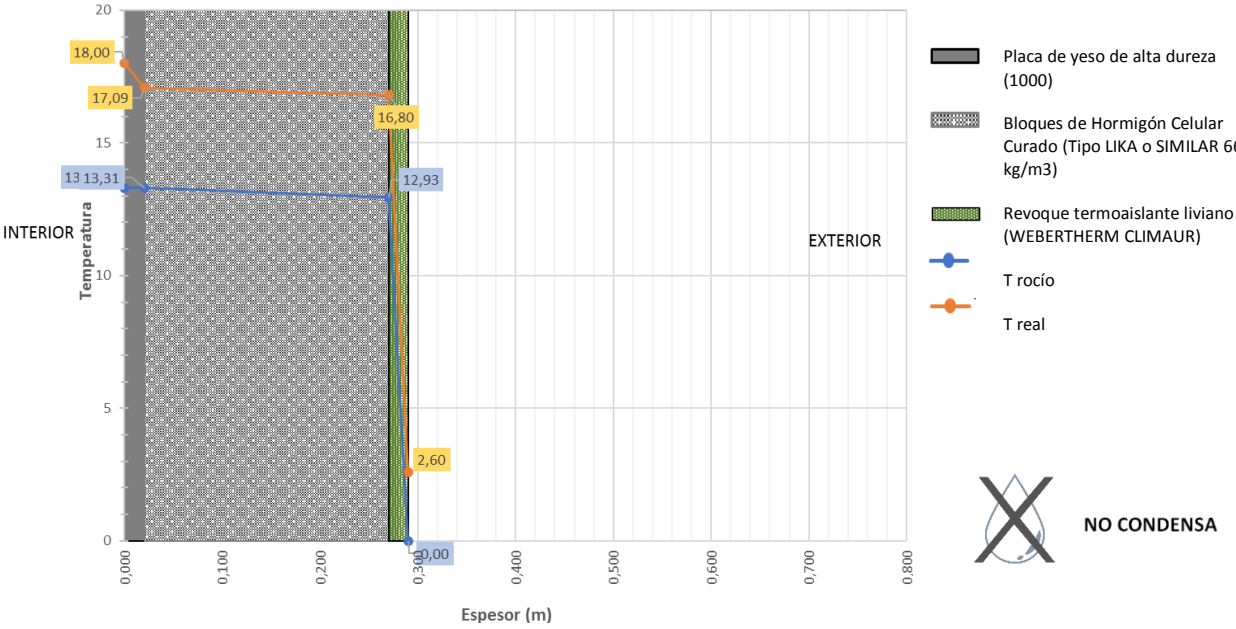
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,46 | 0,46 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



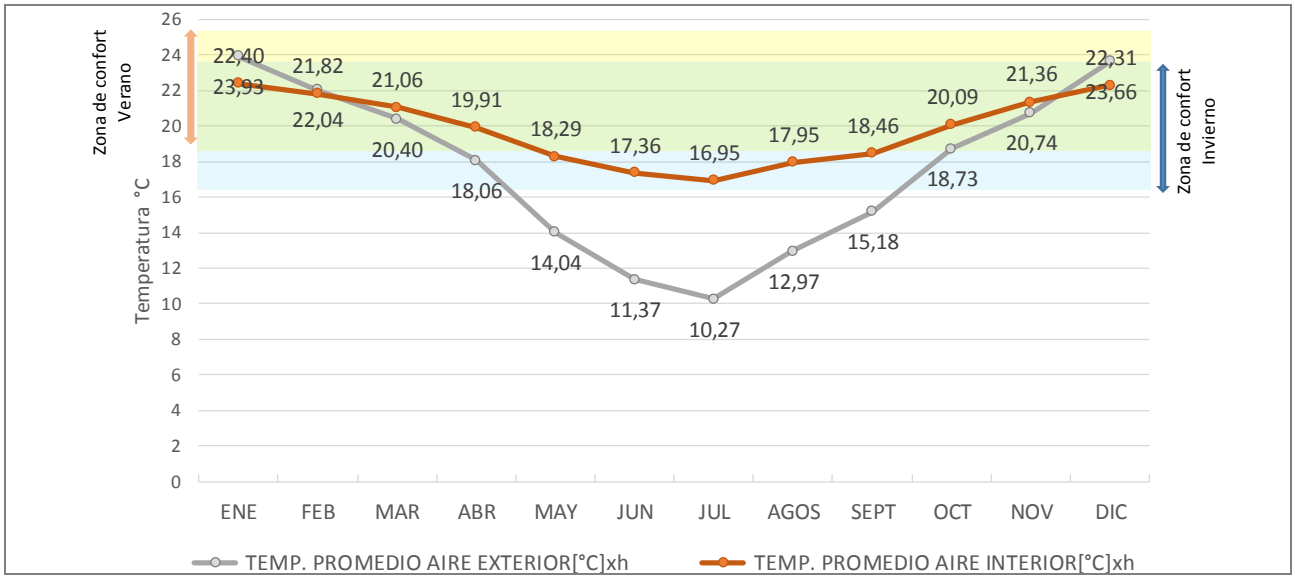

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 26,1 | 27,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,3** | **14,8** |
| | **Amortiguamiento:** | 0,005 | 0,004 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,2** | **11,0** |
| | **Amortiguamiento:** | 0,070 | 0,056 |

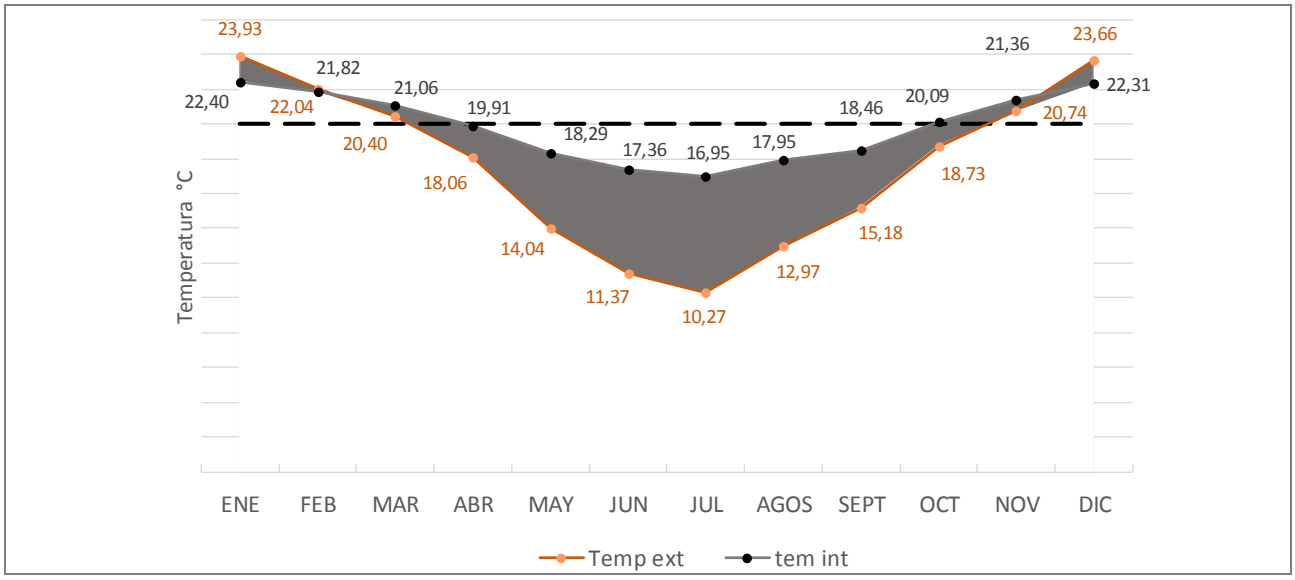
| HCCA-016 | MU | HCCA |
|---|---|---|

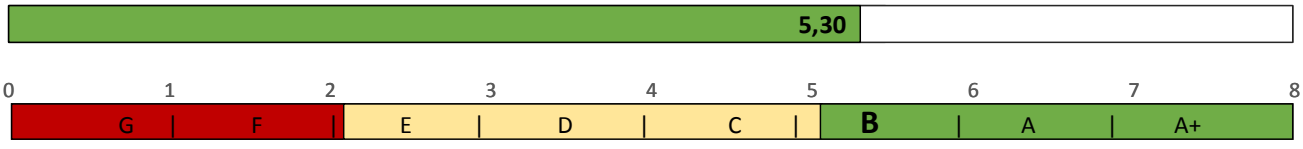
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,61** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,78** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



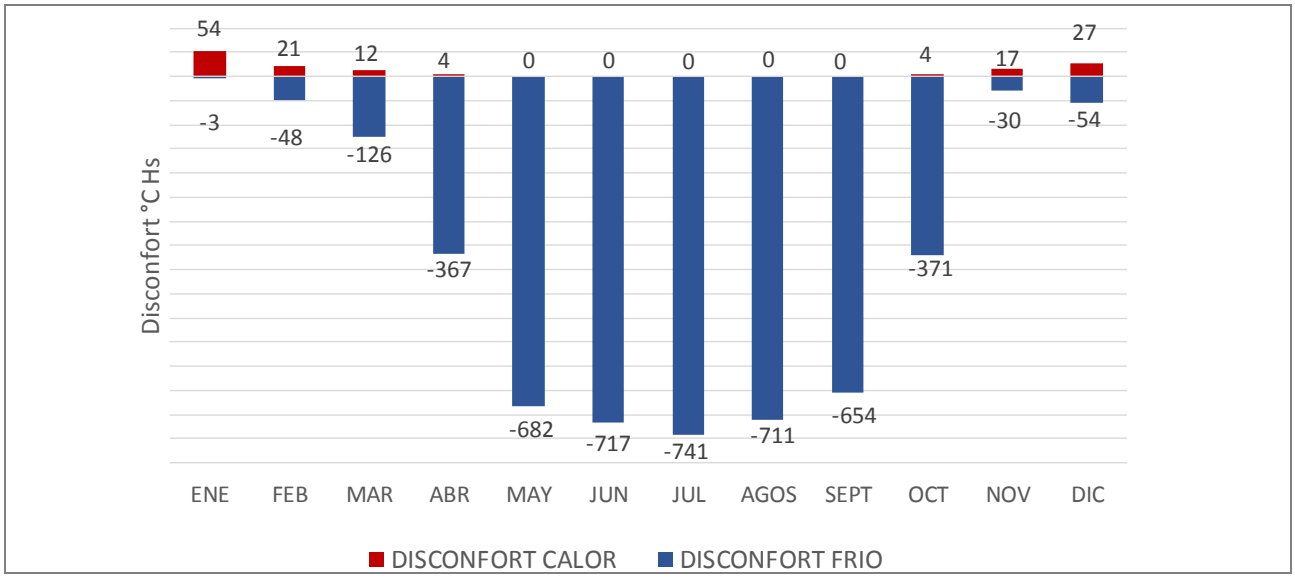




5,30 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-016 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

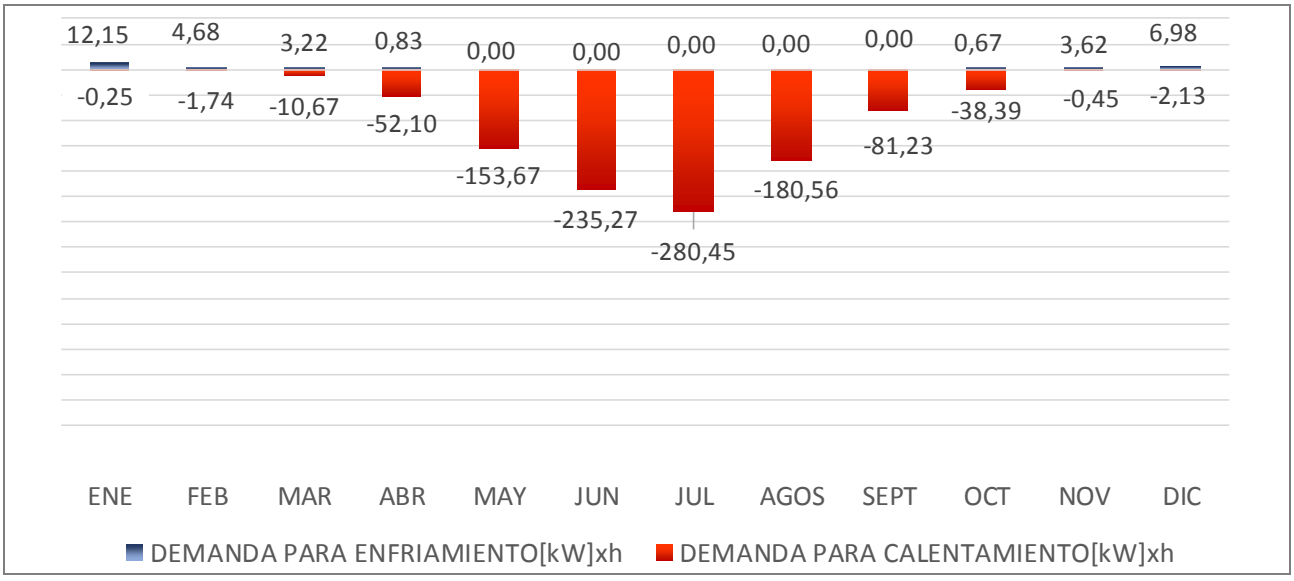
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **139** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.503** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.642** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

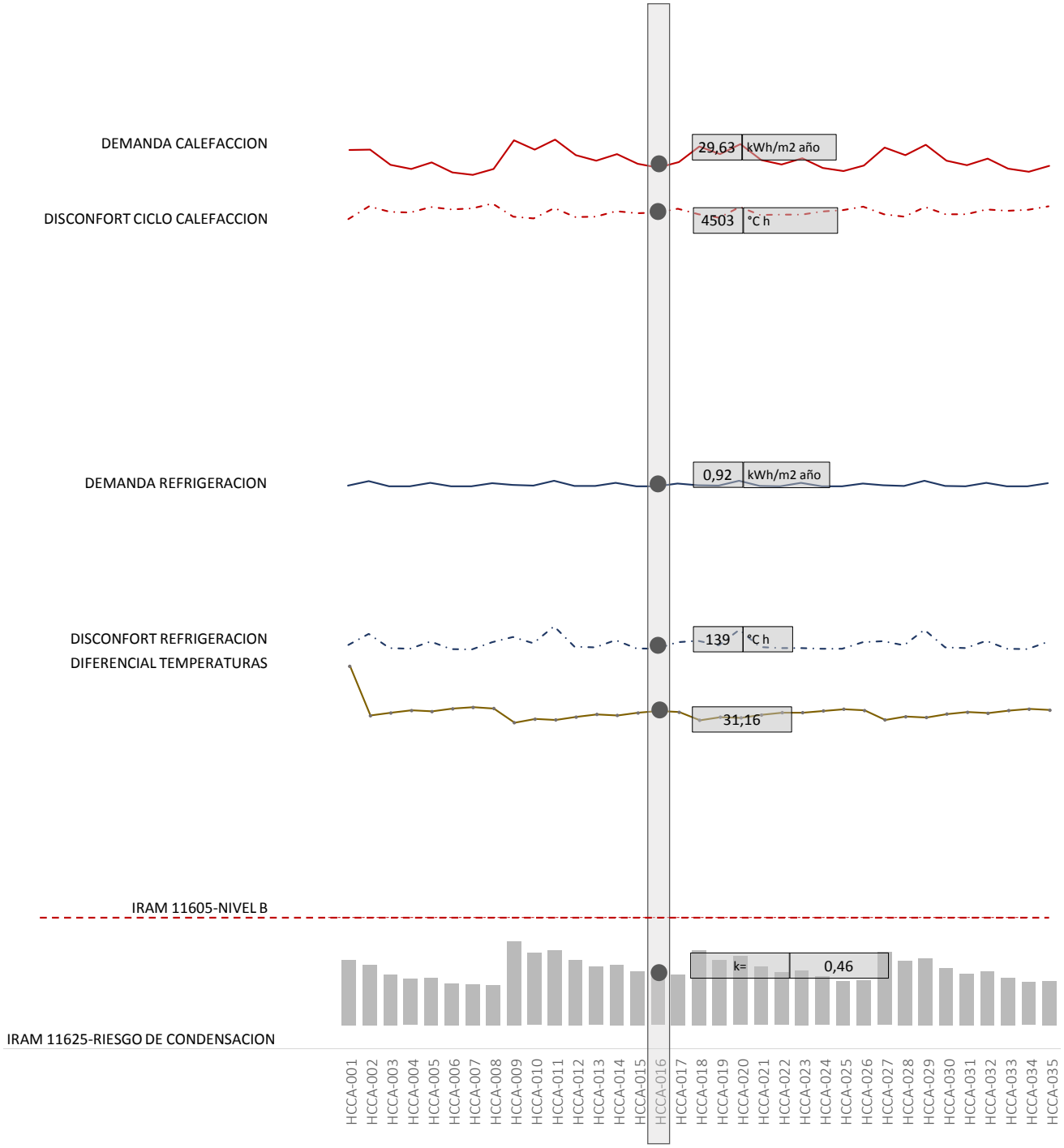



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **32,14** | kWh | 0,92 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.036,90** | kWh | 29,63 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.069,05** | kWh | **30,54** | kWh/m2/año |

| HCCA-016 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 103 | N° 094 | N° 051 | N° 016 | N° 058 | N° 015 |



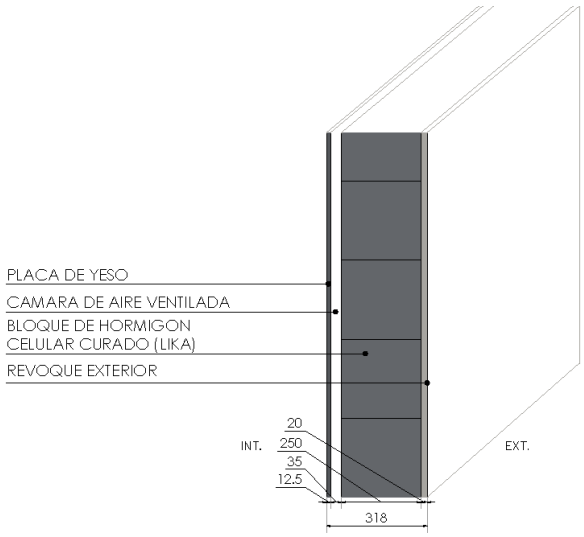

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,46 | 0% | 31,16 | 29,63 | 0,92 | 4503,00 | 139,00 |
| INC. FAMILIA | 87,08% | 0% | 100,45% | 94,47% | 76,03% | 99,93% | 77,77% |
| INC. MUNDIAL | 38,68% | 0% | 101,12% | 72,05% | 15,33% | 100,93% | 27,19% |

| HCCA-017 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (LIKA 660) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK

## INDICE DE TRANSMITANCIA TERMICA "K"

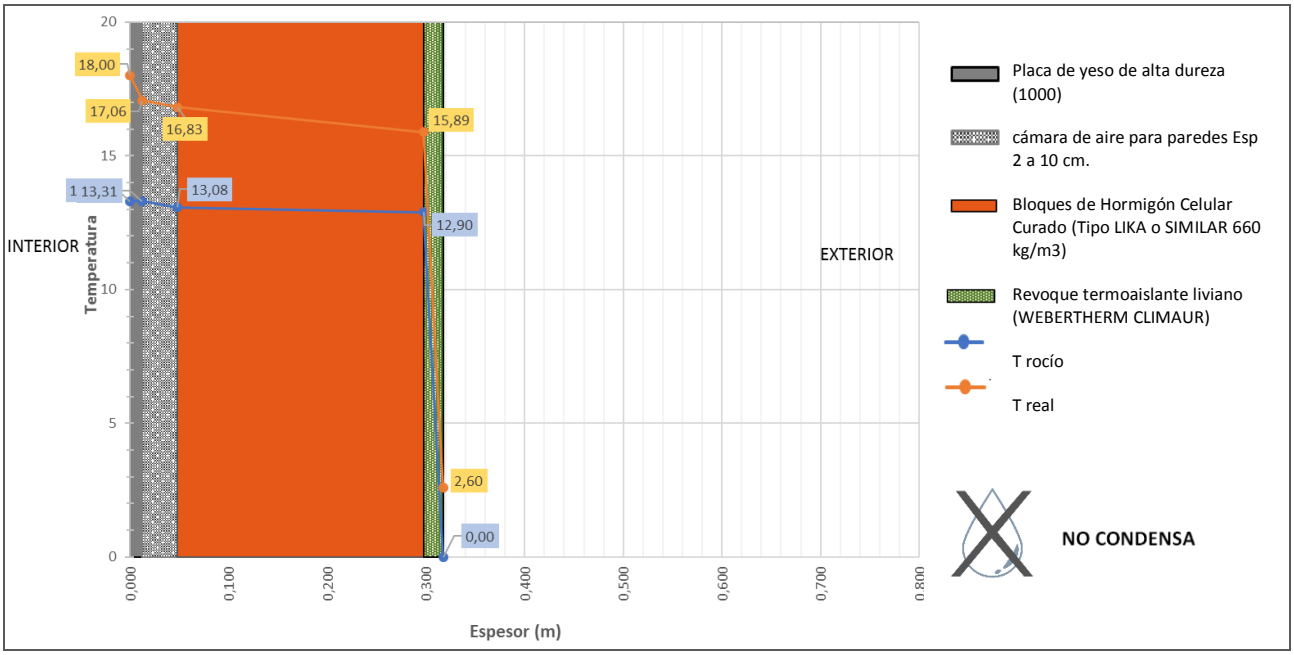
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,47 | 0,47 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



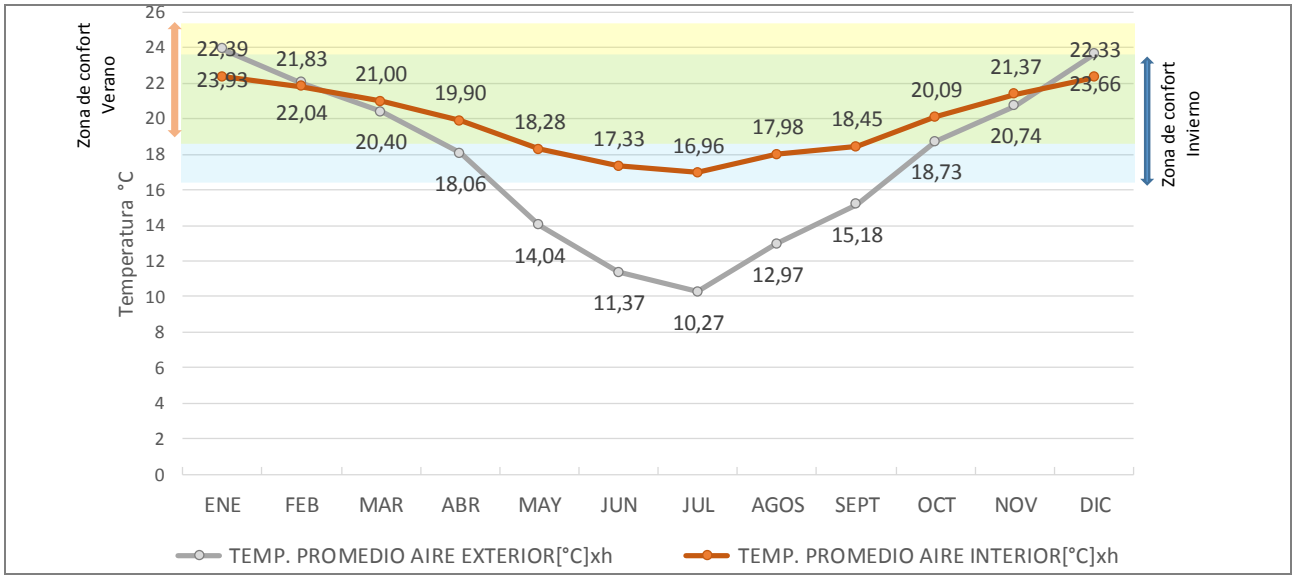

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 29,6 | 27,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,8** | **14,2** |
| | **Amortiguamiento:** | 0,004 | 0,005 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,5** | **9,7** |
| | **Amortiguamiento:** | 0,049 | 0,079 |

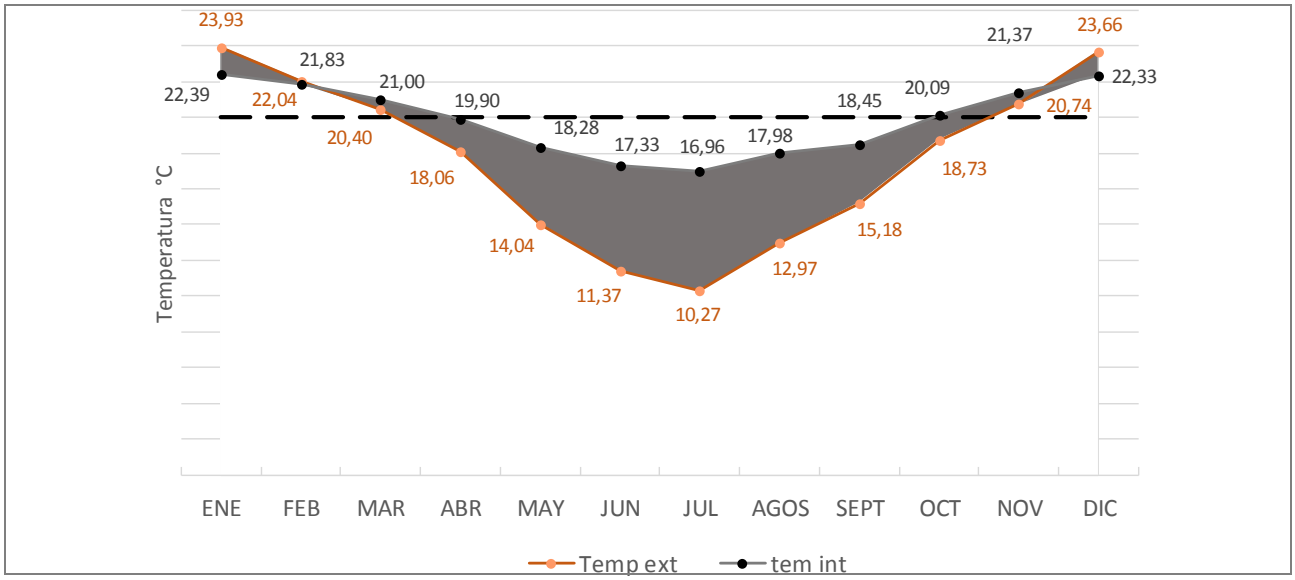
| HCCA-017 | MU | HCCA |
|---|---|---|

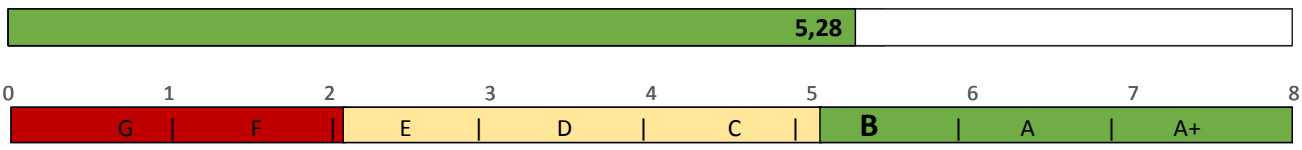
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,87** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,57** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



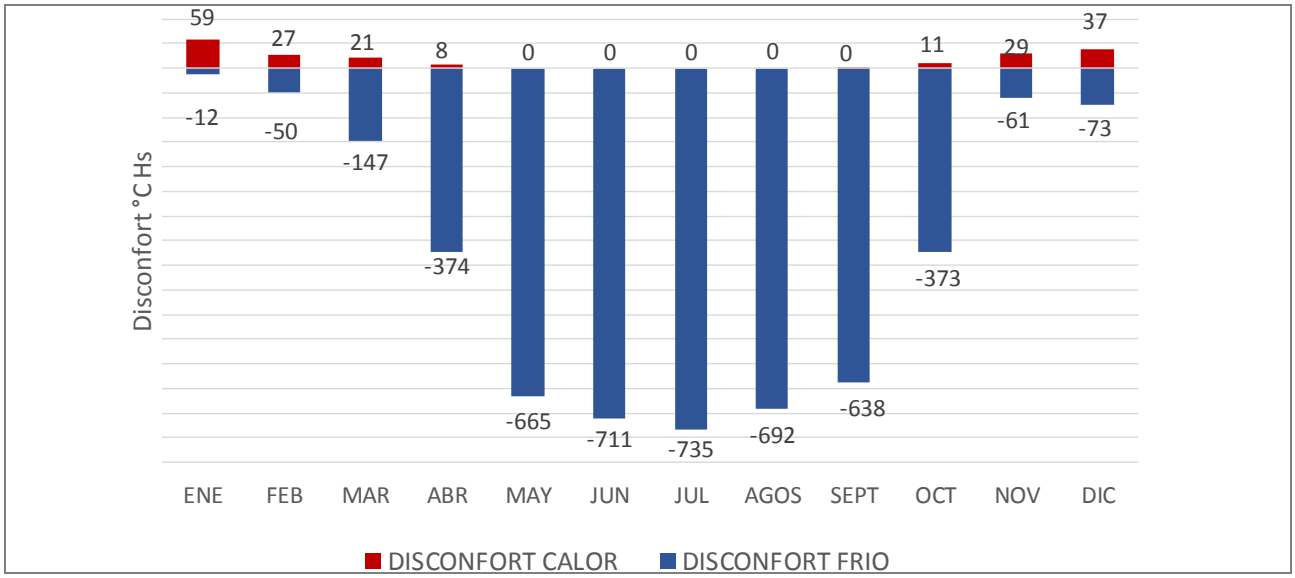




5,28 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-017 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

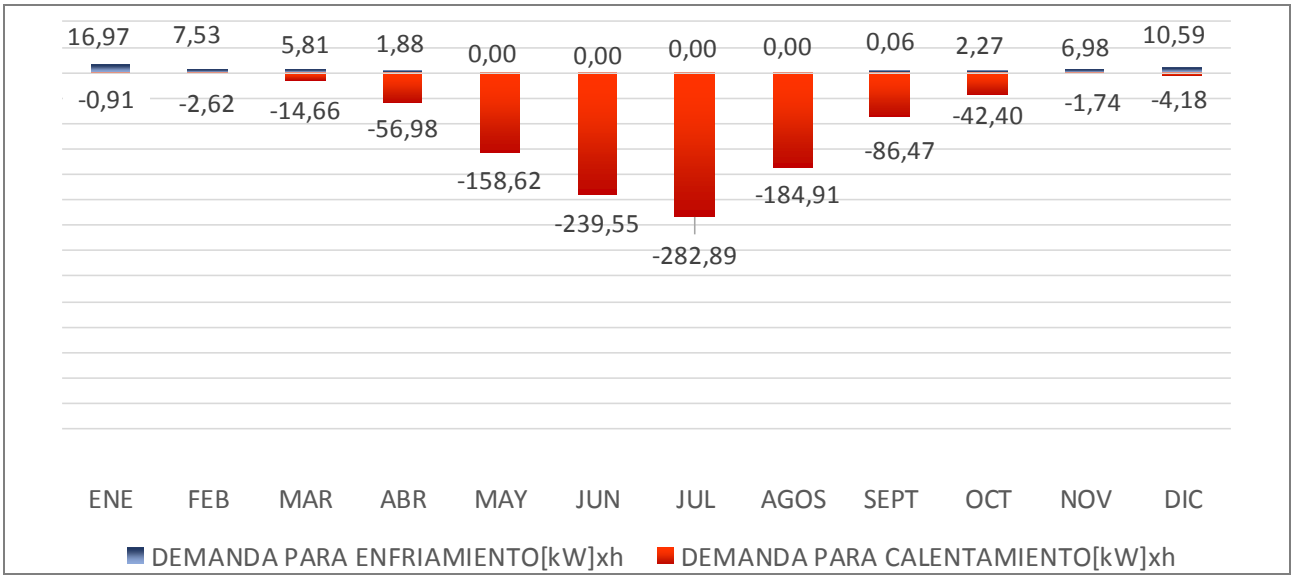
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **192** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.530** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.722** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

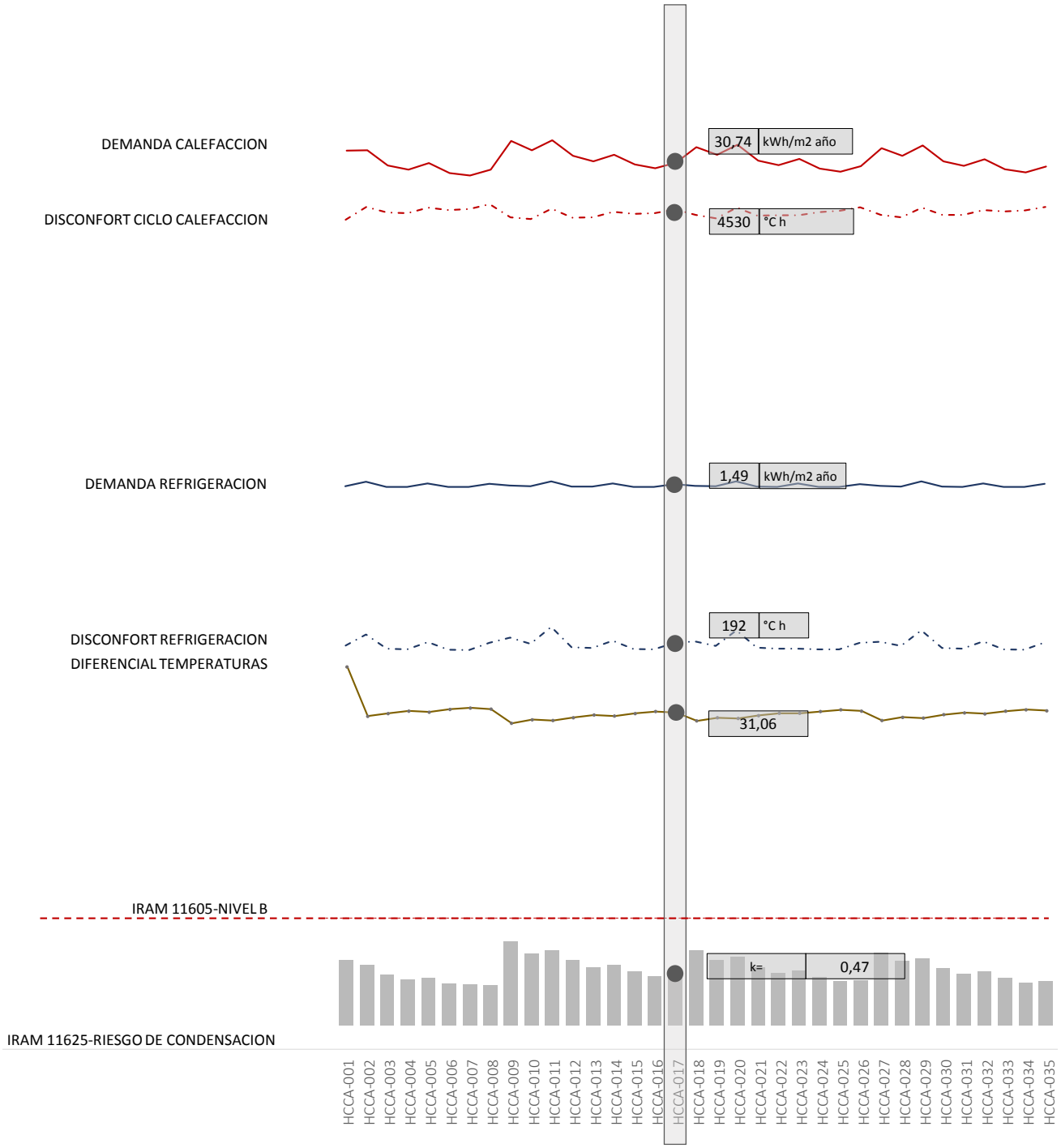



| | | CANT | | IPE | |
|---|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **52,10** | kWh | 1,49 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.075,94** | kWh | 30,74 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.128,04** | kWh | **32,23** | kWh/m2/año |

| HCCA-017 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 111 | N° 103 | N° 090 | N° 100 | N° 086 | N° 080 |



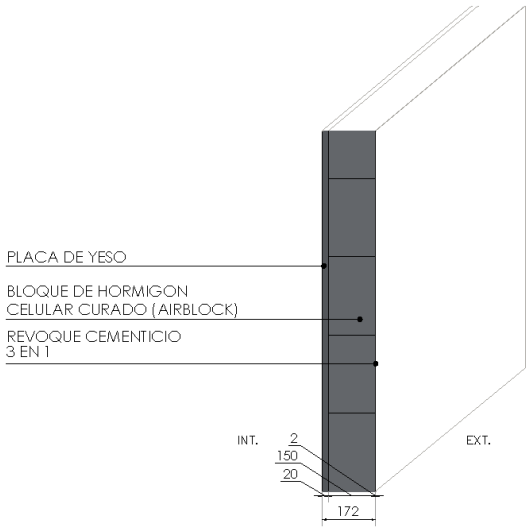

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,47 | 0% | 31,06 | 30,74 | 1,49 | 4530,00 | 192,00 |
| INC. FAMILIA | 88,98% | 0% | 100,12% | 98,01% | 123,14% | 100,53% | 107,42% |
| INC. MUNDIAL | 39,52% | 0% | 100,80% | 74,75% | 24,83% | 101,53% | 37,56% |

| HCCA-018 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (AIRBLOCK 580) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

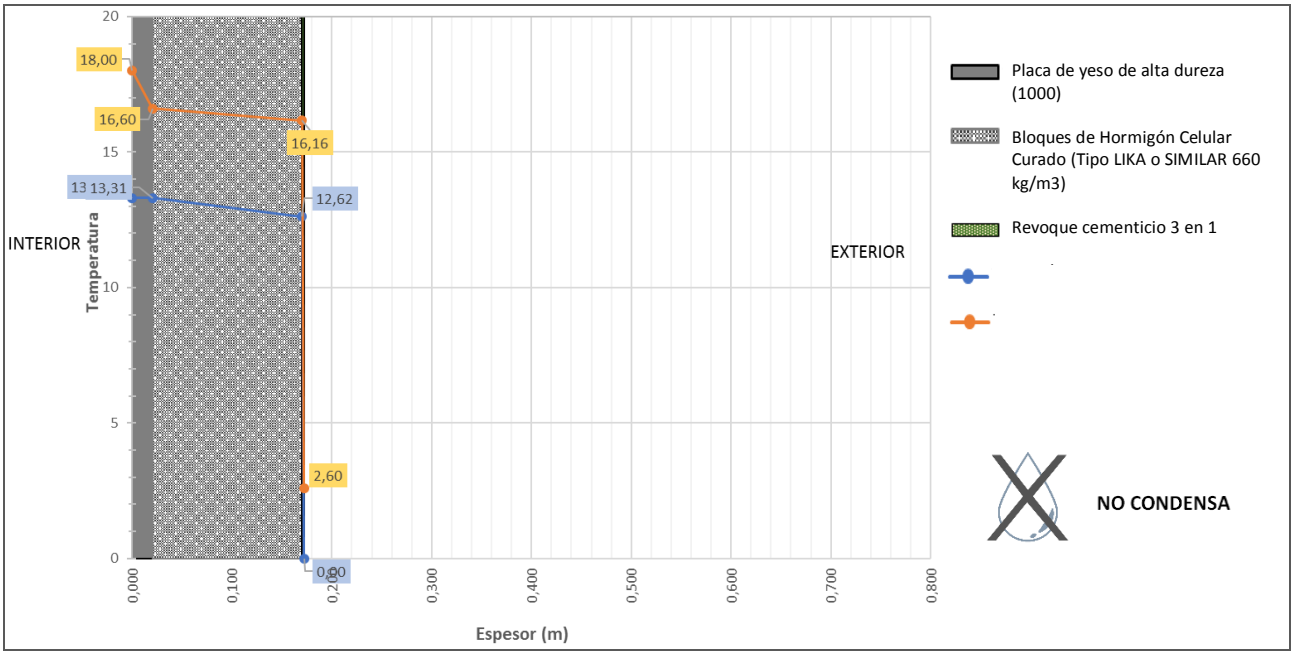
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,70 | 0,70 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



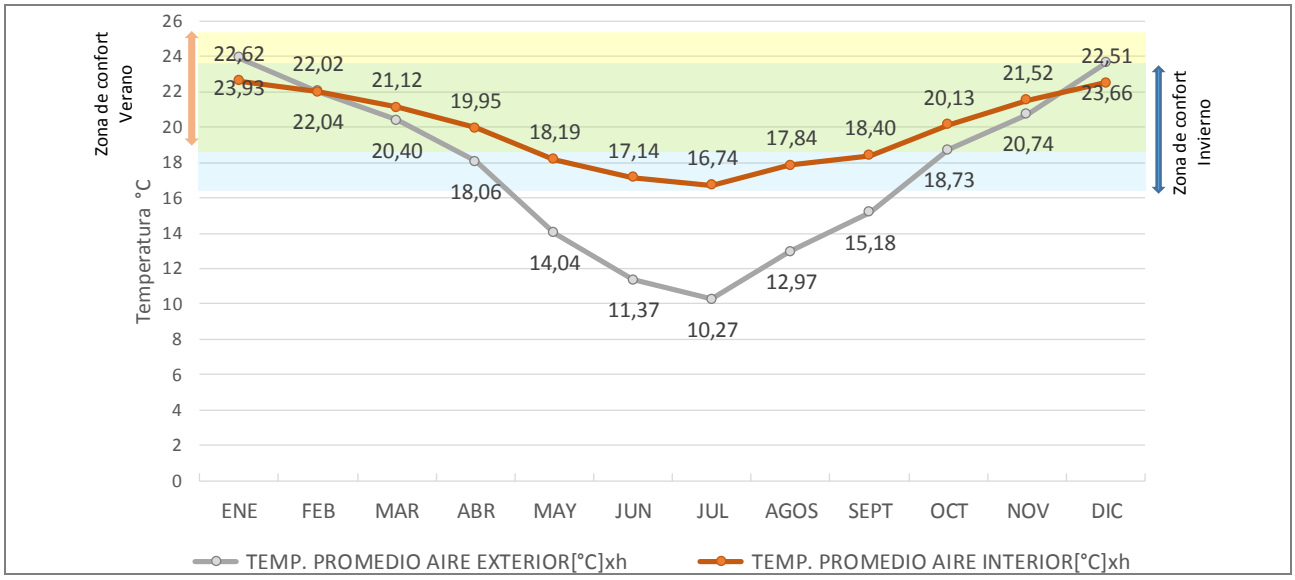

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 21,5 | Invierno 25,9 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,1** | **8,9** |
| | **Amortiguamiento:** | 0,050 | 0,037 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,3** | **6,6** |
| | **Amortiguamiento:** | 0,195 | 0,177 |

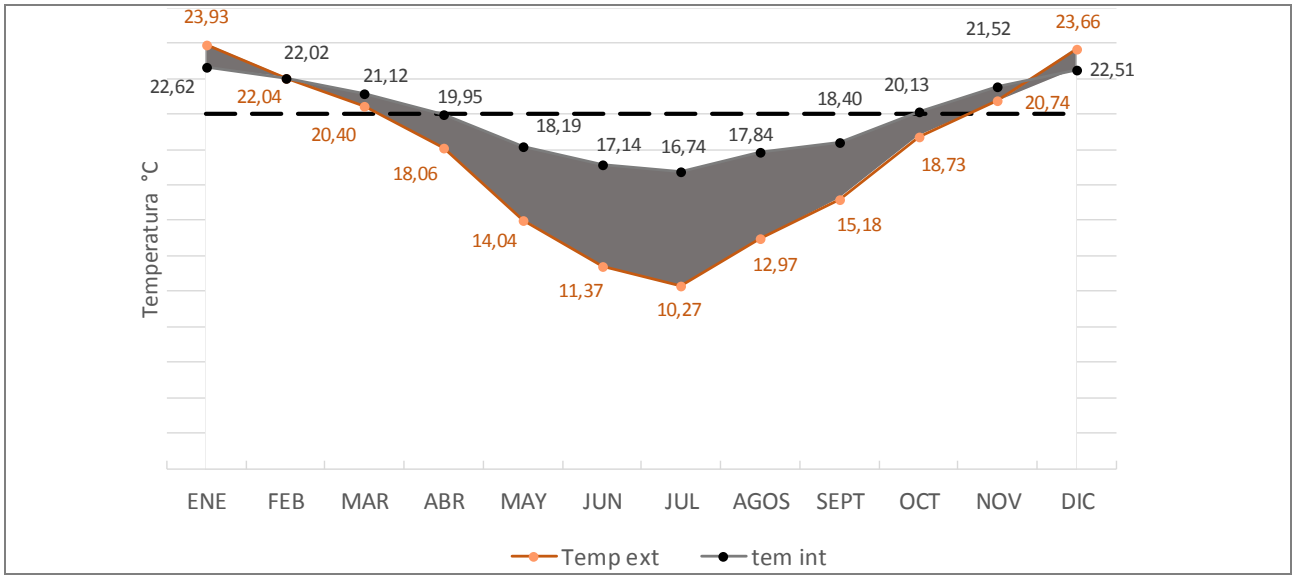
| HCCA-018 | MU | HCCA |
|---|---|---|

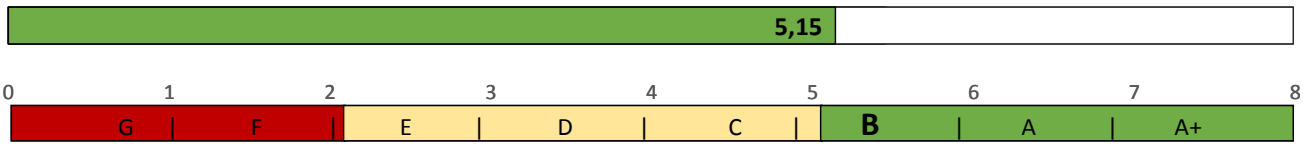
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,88** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **14,23** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



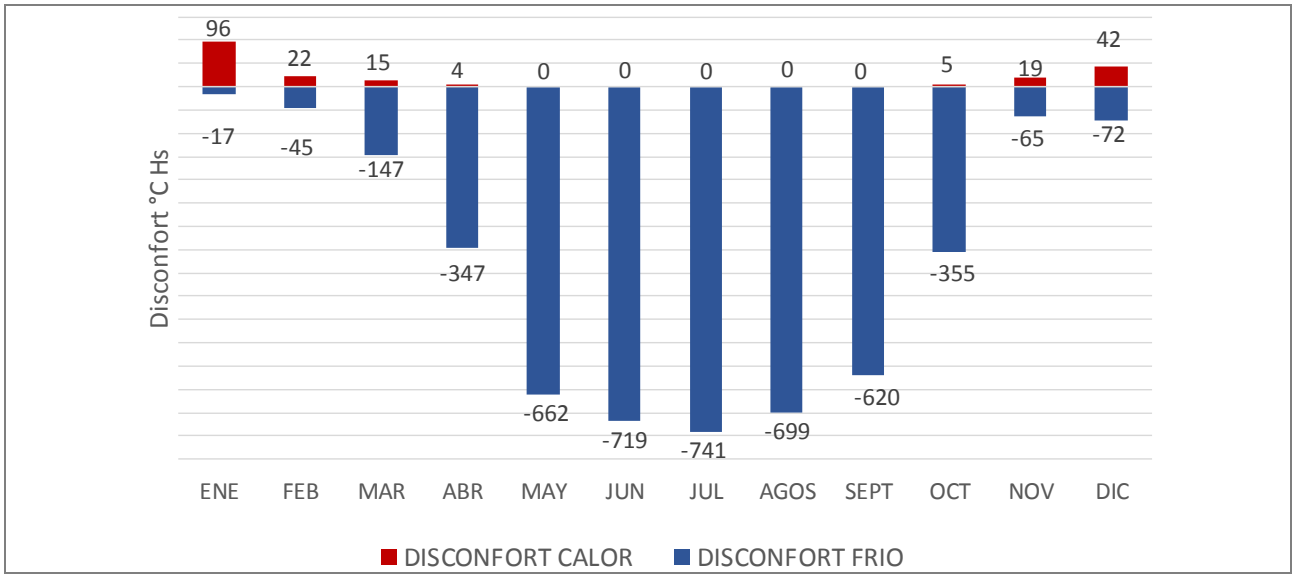




5,15 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| HCCA-018 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

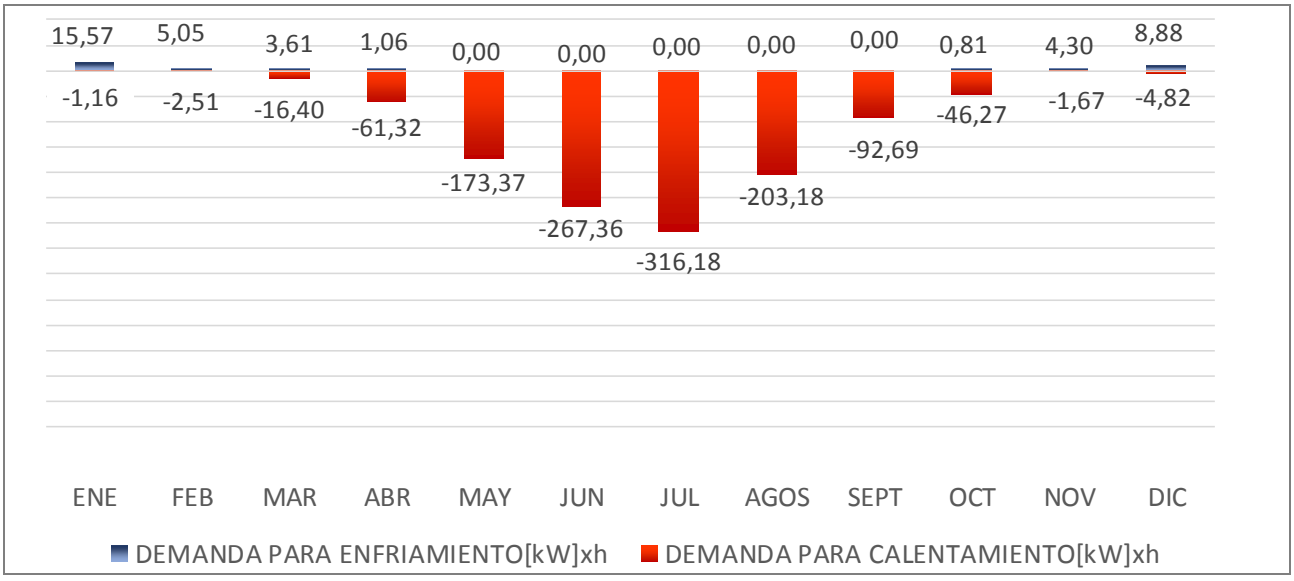
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **203** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.488** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.691** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

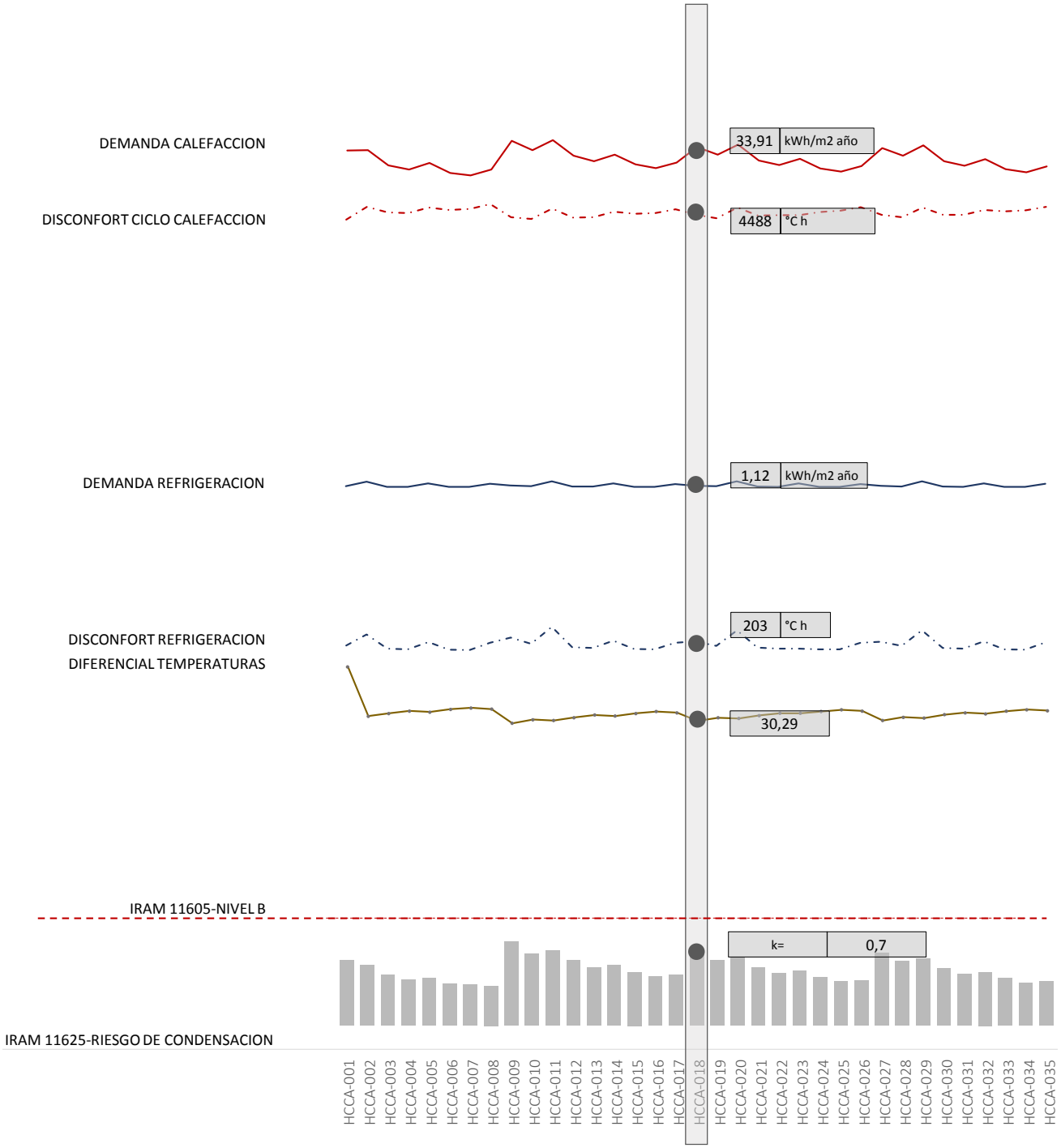



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **39,29** | kWh | 1,12 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.186,94** | kWh | 33,91 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.226,23** | kWh | **35,04** | kWh/m2/año |

| HCCA-018 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 157 | N° 159 | N° 144 | N° 044 | N° 043 | N° 094 |



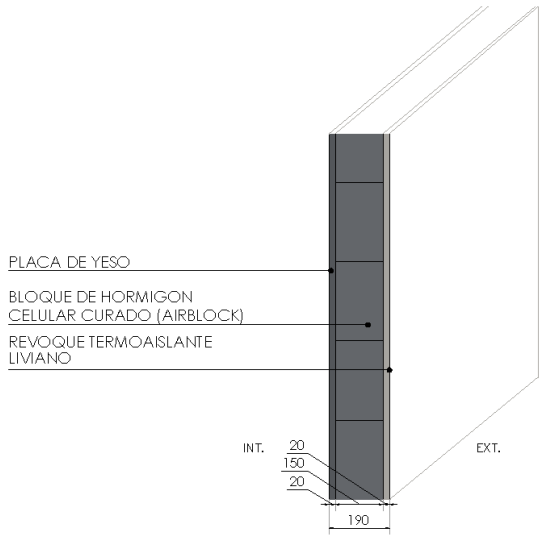

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,70 | 0% | 30,29 | 33,91 | 1,12 | 4488,00 | 203,00 |
| INC. FAMILIA | 132,52% | 0% | 97,64% | 108,12% | 92,56% | 99,60% | 113,58% |
| INC. MUNDIAL | 58,85% | 0% | 98,30% | 82,45% | 18,66% | 100,59% | 39,71% |

| HCCA-019 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

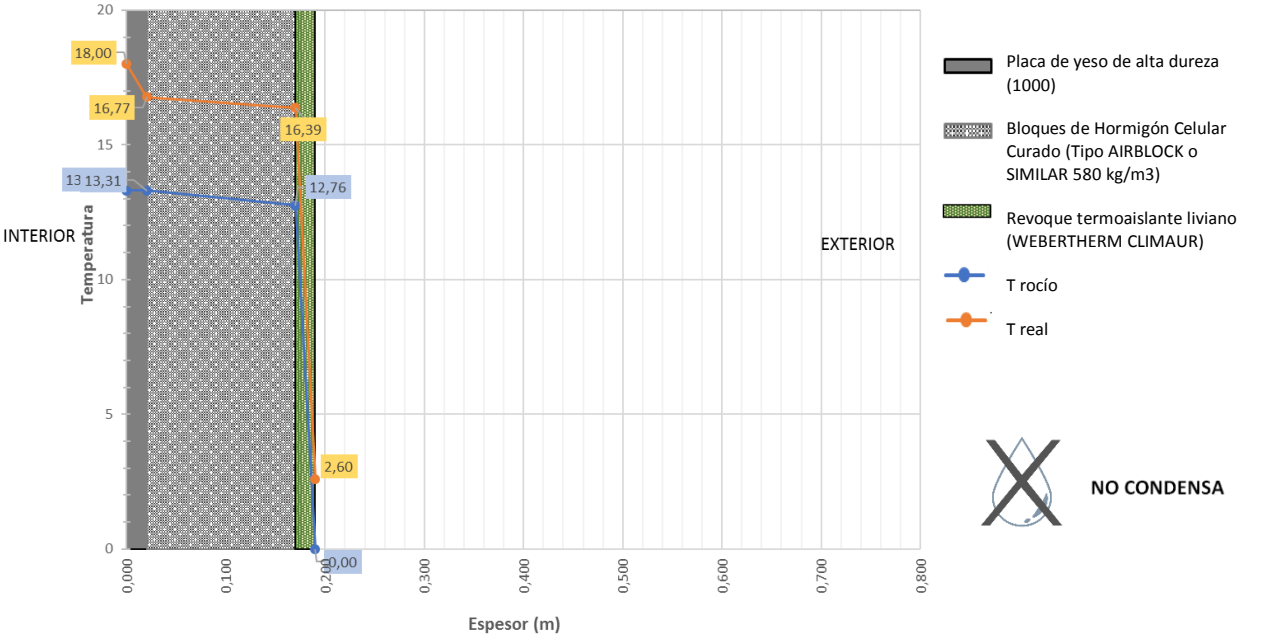
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,61 | 0,61 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



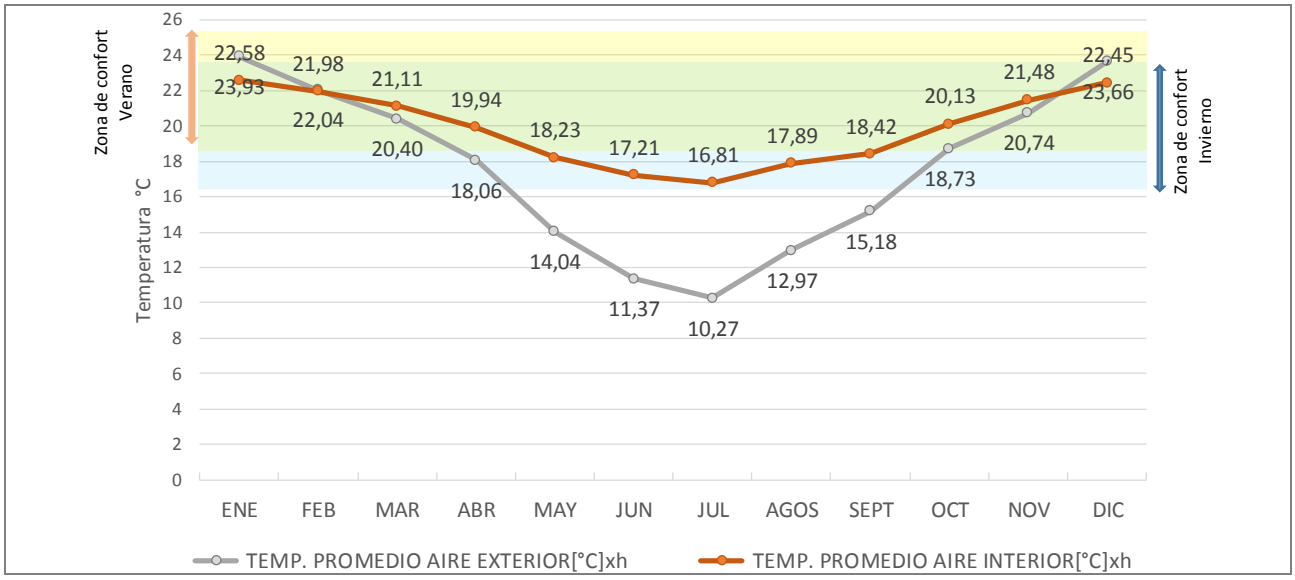

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 19,9 | 22,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,0** | **9,5** |
| | **Amortiguamiento:** | 0,036 | 0,029 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,6** | **7,5** |
| | **Amortiguamiento:** | 0,176 | 0,142 |

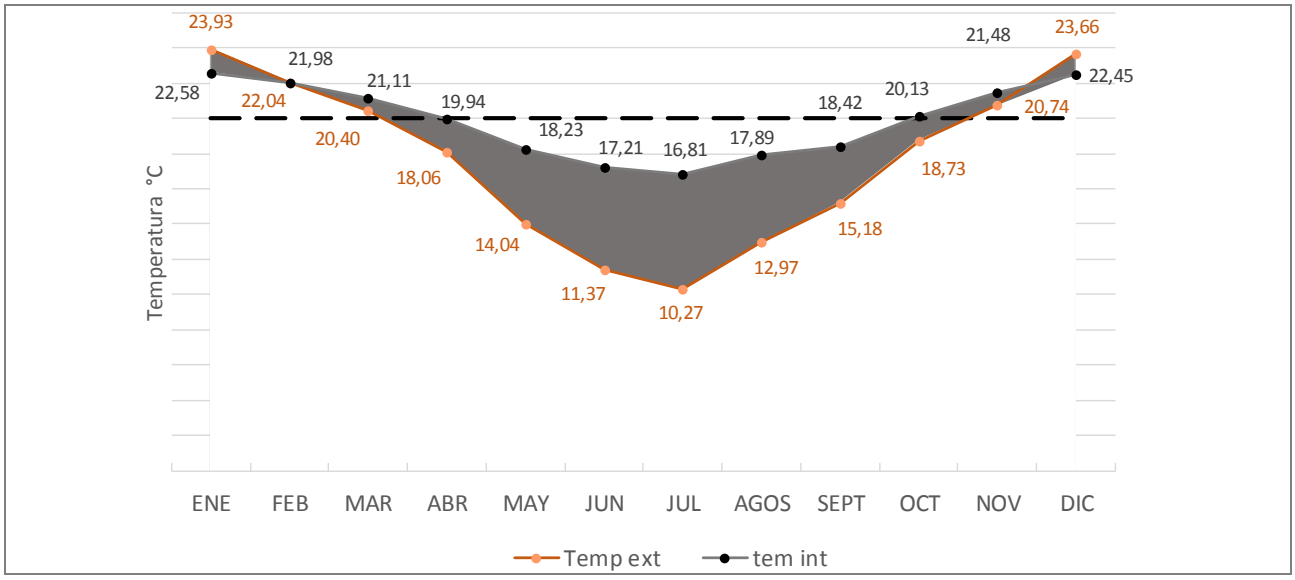
| HCCA-019 | MU | HCCA |
|---|---|---|

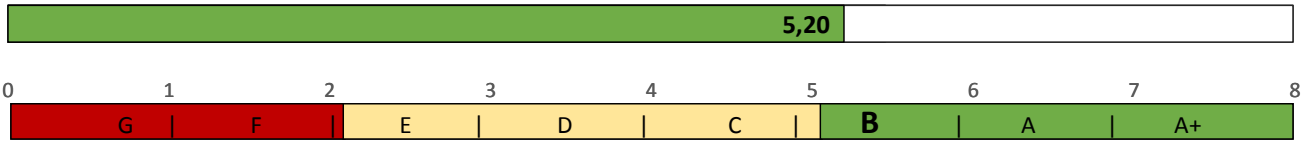
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,75** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,46** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



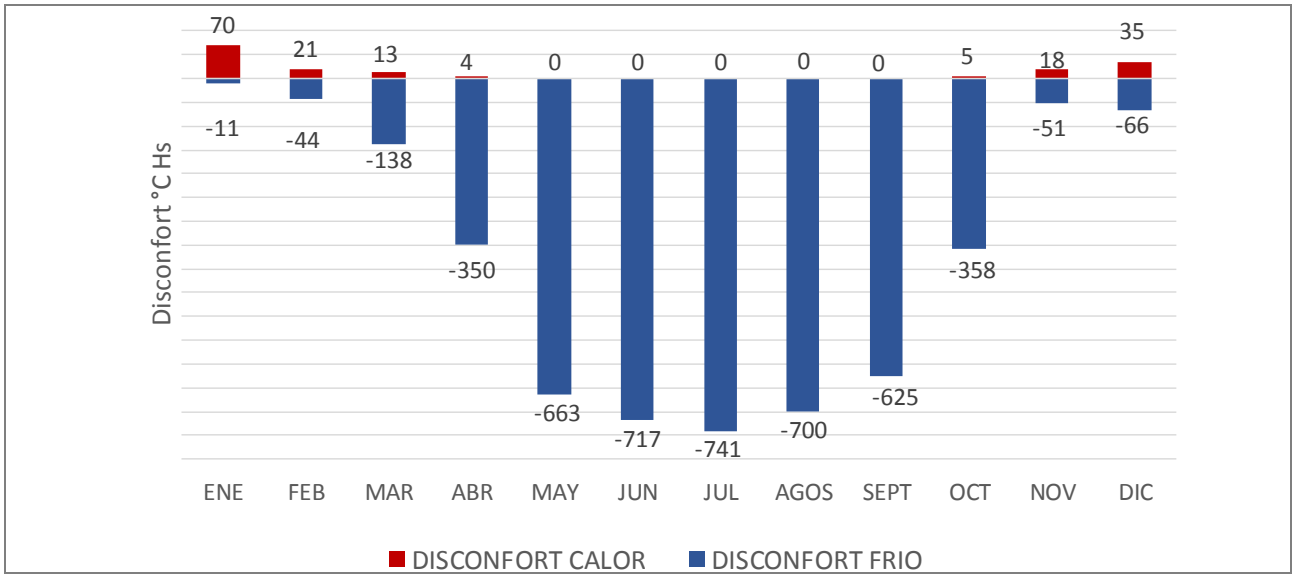




5,20 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| HCCA-019 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

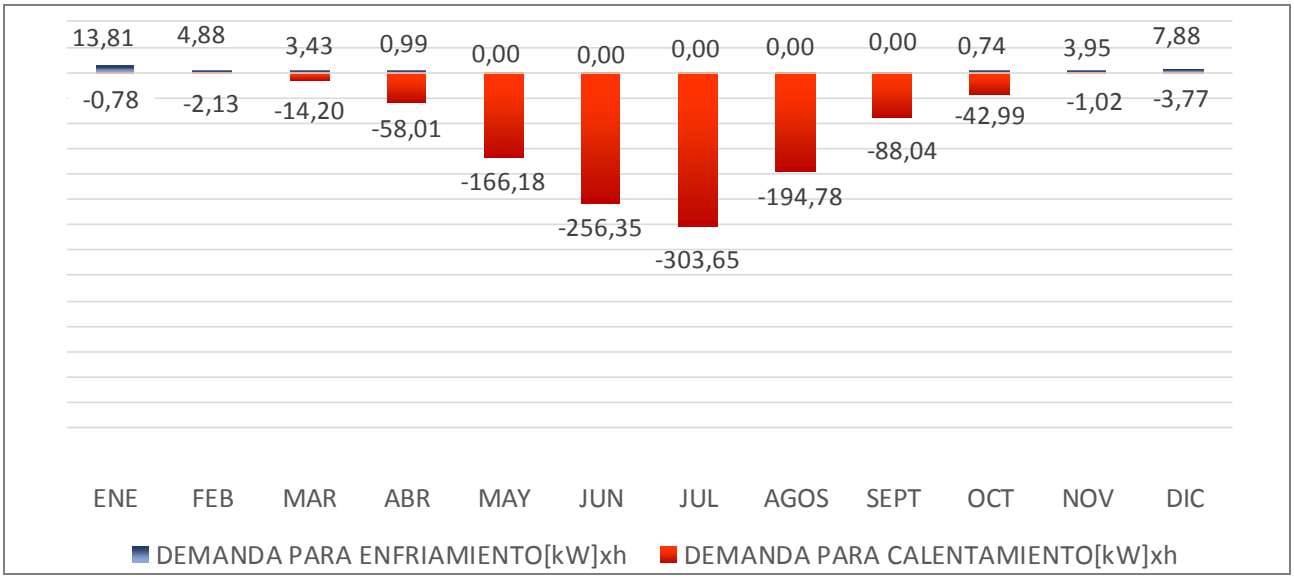
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **166** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.464** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.630** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

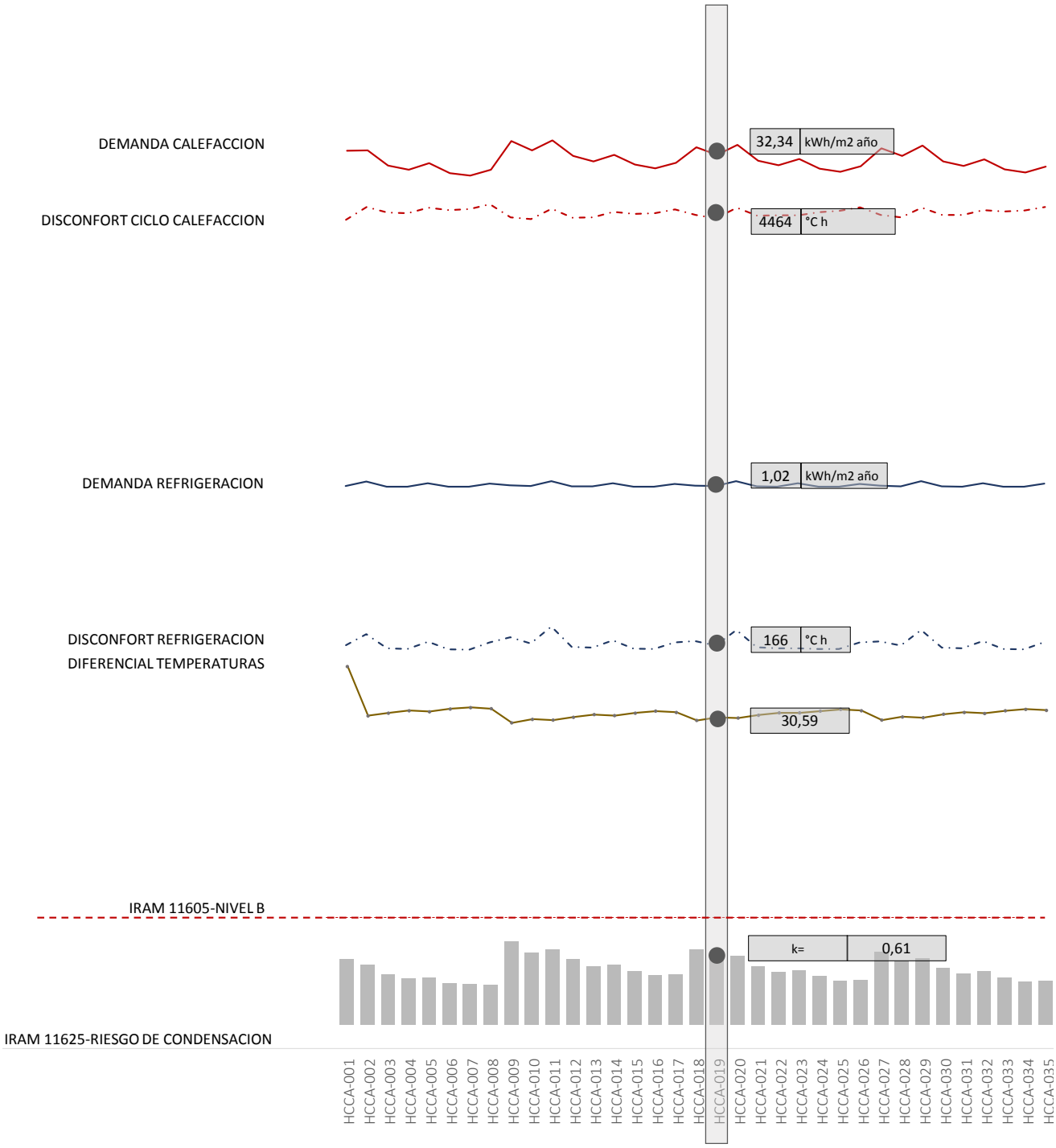



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **35,68** | kWh | 1,02 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.131,91** | kWh | 32,34 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.167,59** | kWh | **33,36** | kWh/m2/año |

| HCCA-019 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 146 | N° 147 | N° 117 | N° 030 | N° 020 | N° 037 |



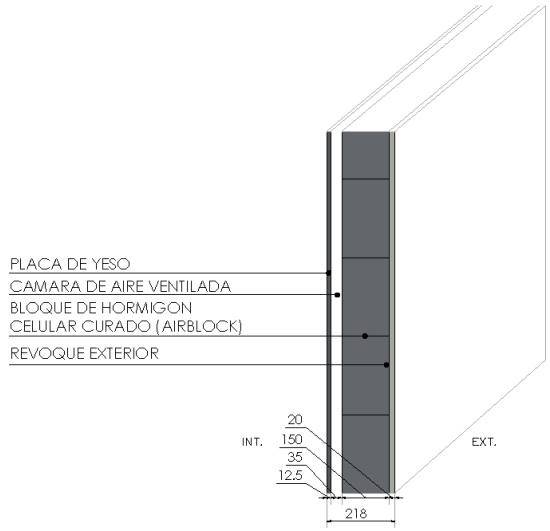

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,61 | 0% | 30,59 | 32,34 | 1,02 | 4464,00 | 166,00 |
| INC. FAMILIA | 115,48% | 0% | 98,61% | 103,12% | 84,30% | 99,07% | 92,87% |
| INC. MUNDIAL | 51,29% | 0% | 99,27% | 78,64% | 17,00% | 100,05% | 32,48% |

| HCCA-020 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

## INDICE DE TRANSMITANCIA TERMICA "K"

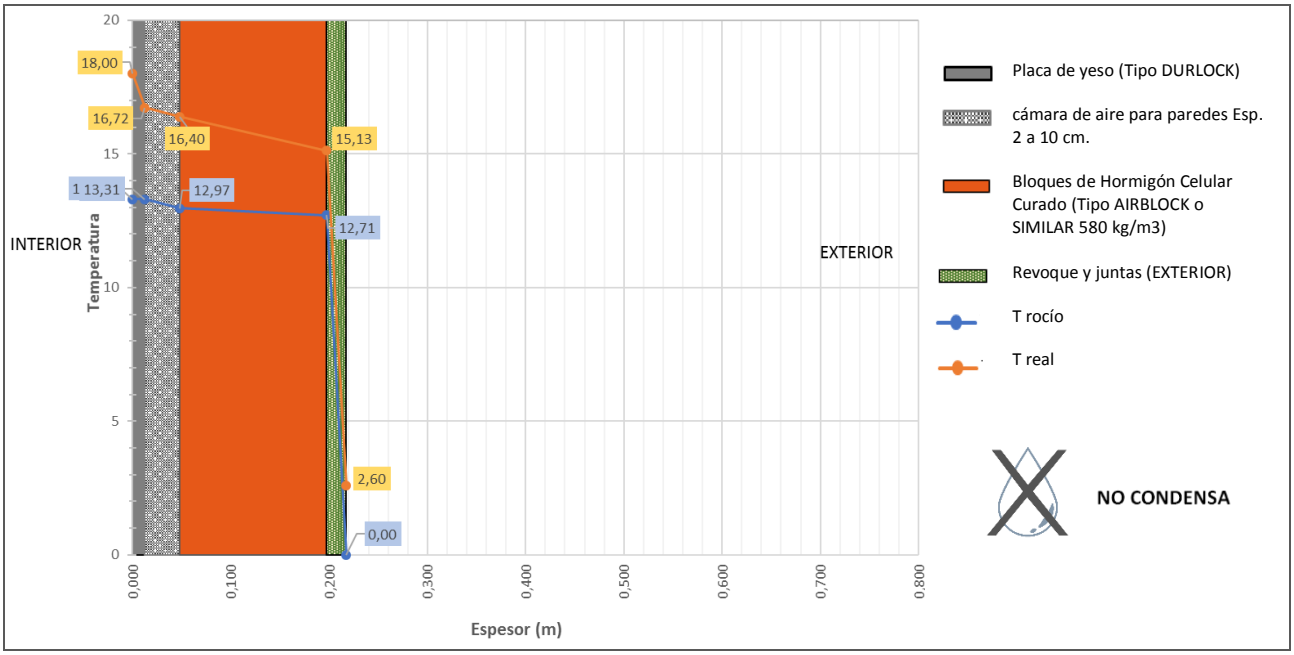
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,64 | 0,64 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



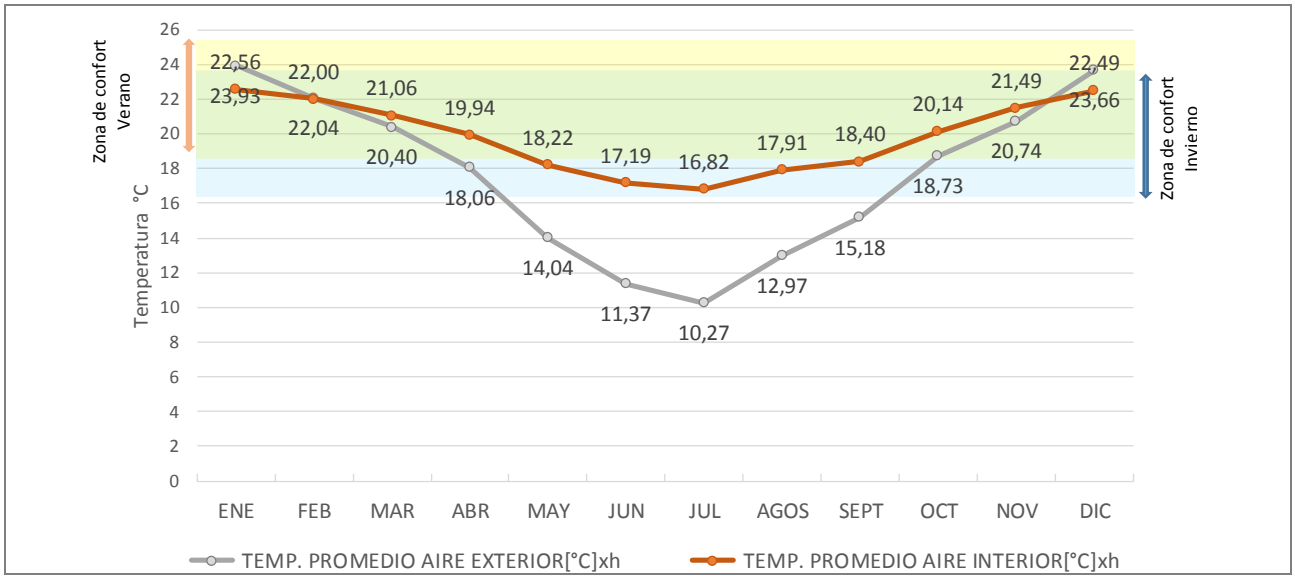

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| ADMISIVIDAD EQUIVALENTE | | verano 24,5 | Invierno 21,2 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,6** | **8,9** |
| | **Amortiguamiento:** | 0,029 | 0,037 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,9** | **6,2** |
| | **Amortiguamiento:** | 0,126 | 0,195 |

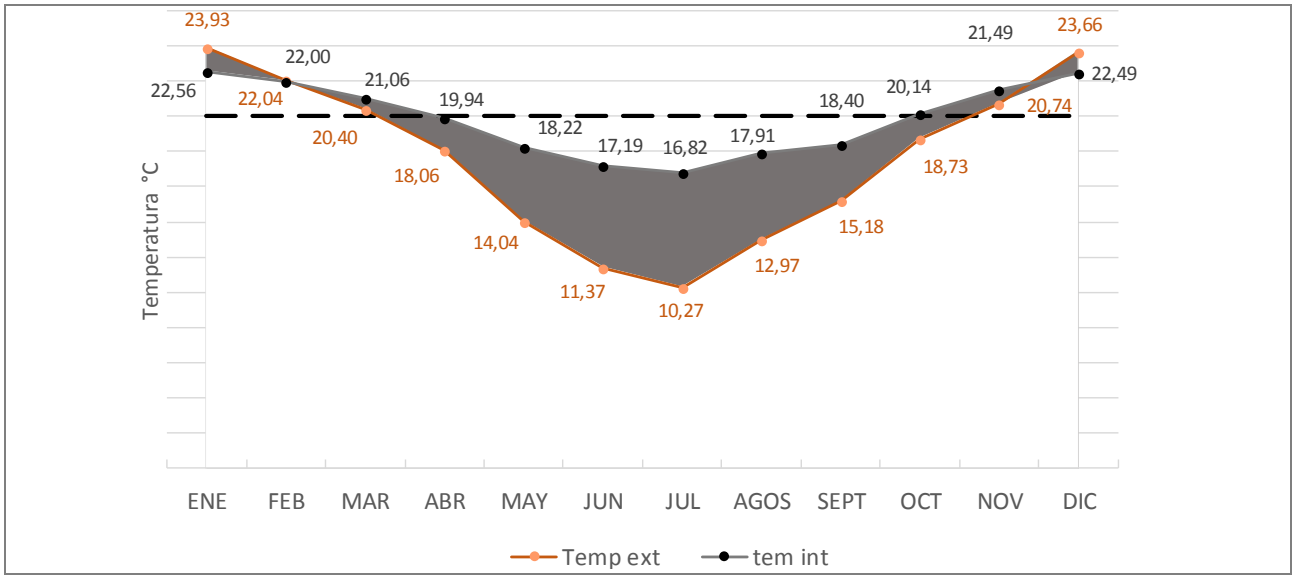
| HCCA-020 | MU | HCCA |
|---|---|---|

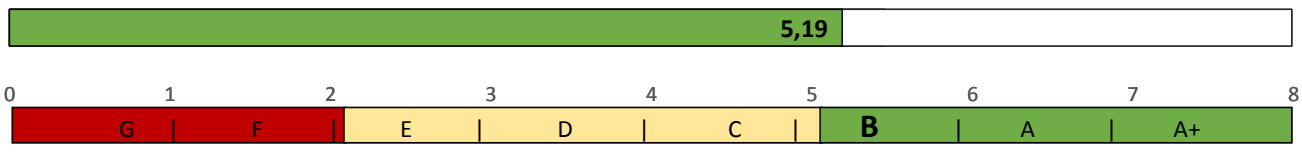
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,45** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **13,86** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



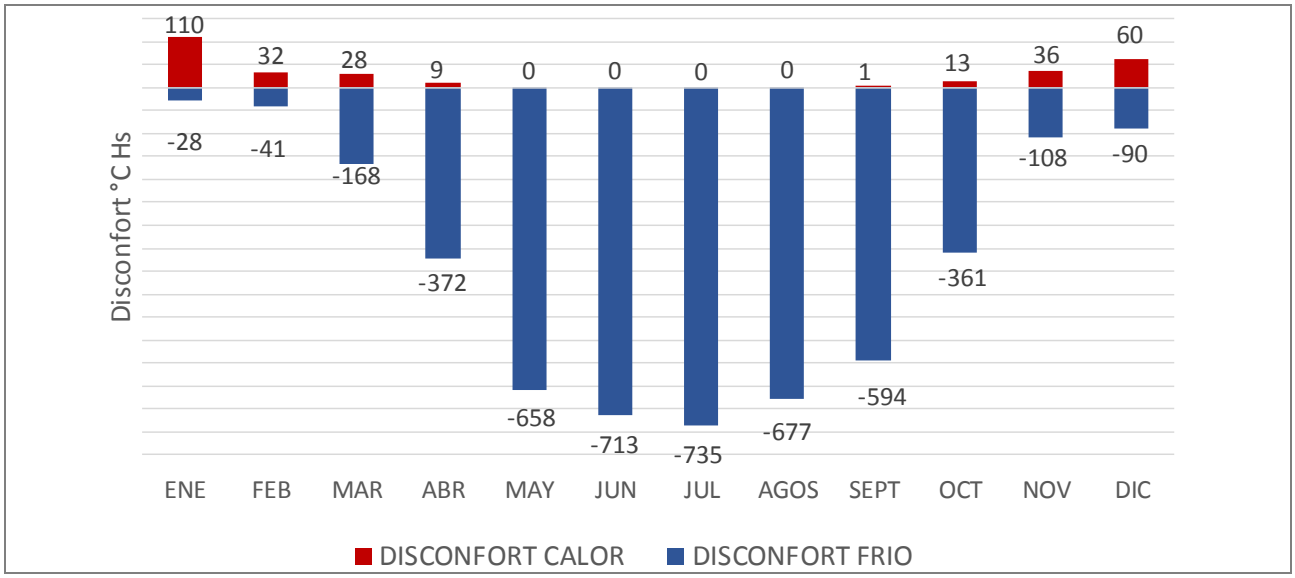




5,19 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| HCCA-020 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

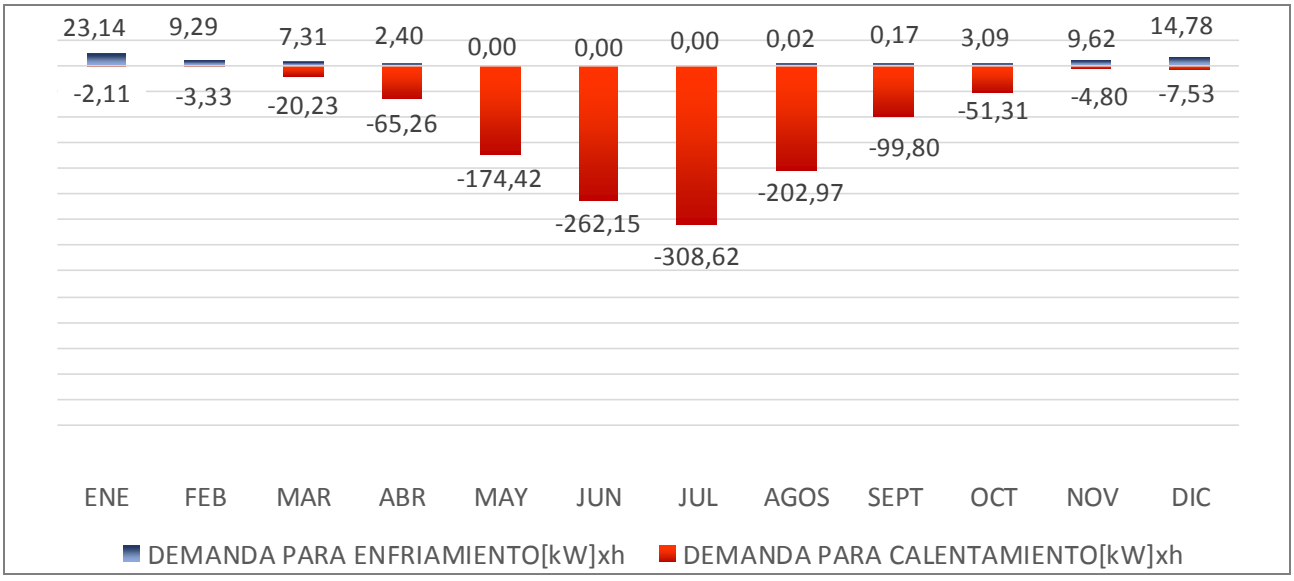
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **290** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.544** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.834** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

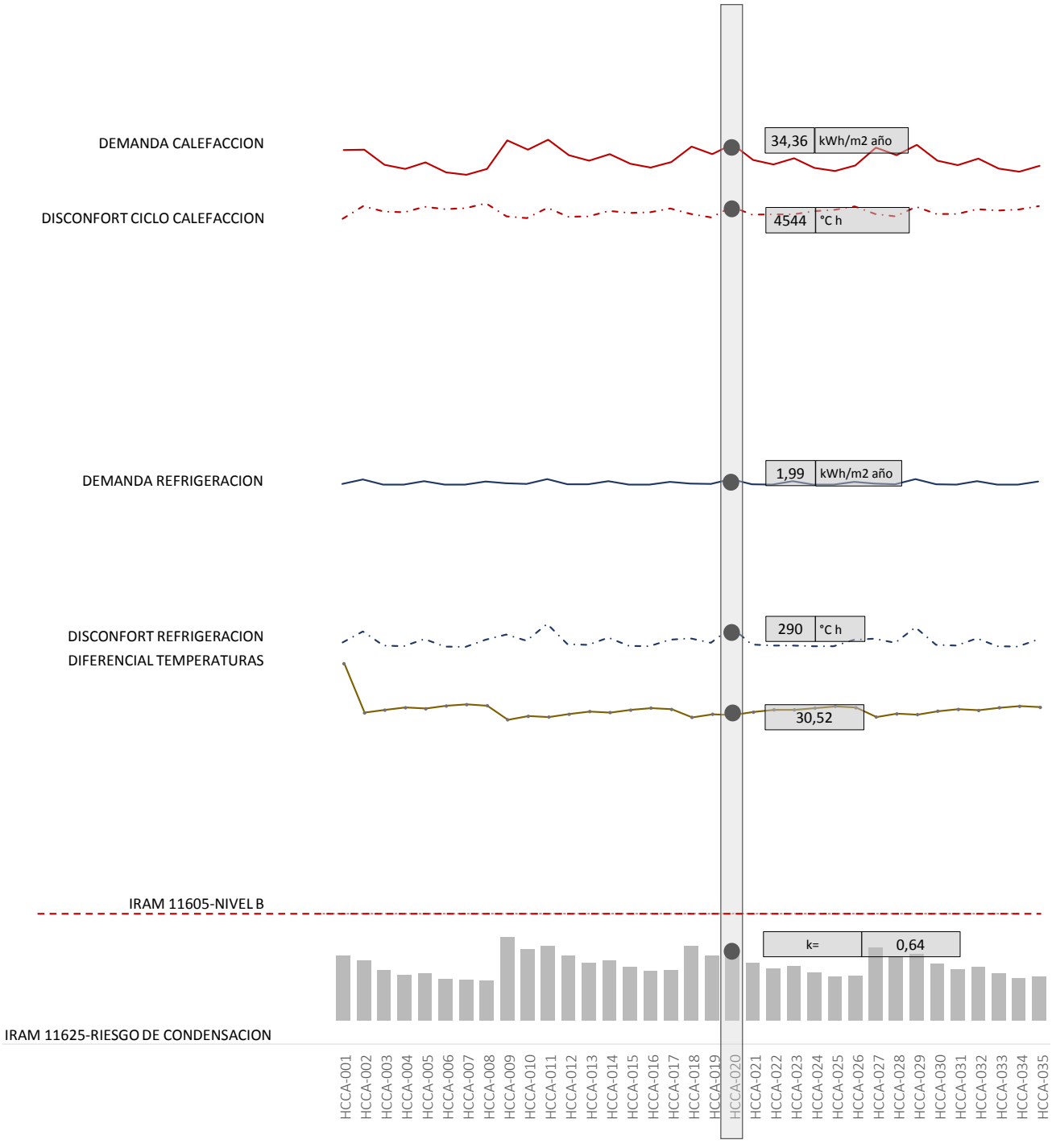



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **69,82** | kWh | 1,99 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.202,54** | kWh | 34,36 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.272,35** | kWh | **36,35** | kWh/m2/año |

| HCCA-020 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 150 | N° 150 | N° 146 | N° 147 | N° 097 | N° 140 |



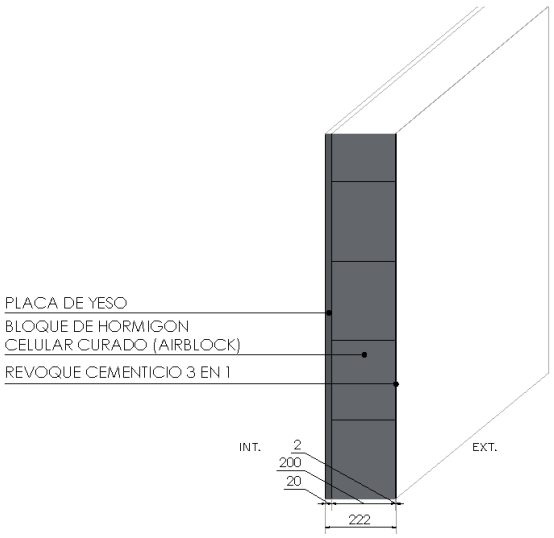

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,64 | 0% | 30,52 | 34,36 | 1,99 | 4544,00 | 290,00 |
| INC. FAMILIA | 121,16% | 0% | 98,38% | 109,56% | 164,46% | 100,84% | 162,25% |
| INC. MUNDIAL | 53,81% | 0% | 99,05% | 83,55% | 33,16% | 101,85% | 56,73% |

| HCCA-021 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (AIRBLOCK 580) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

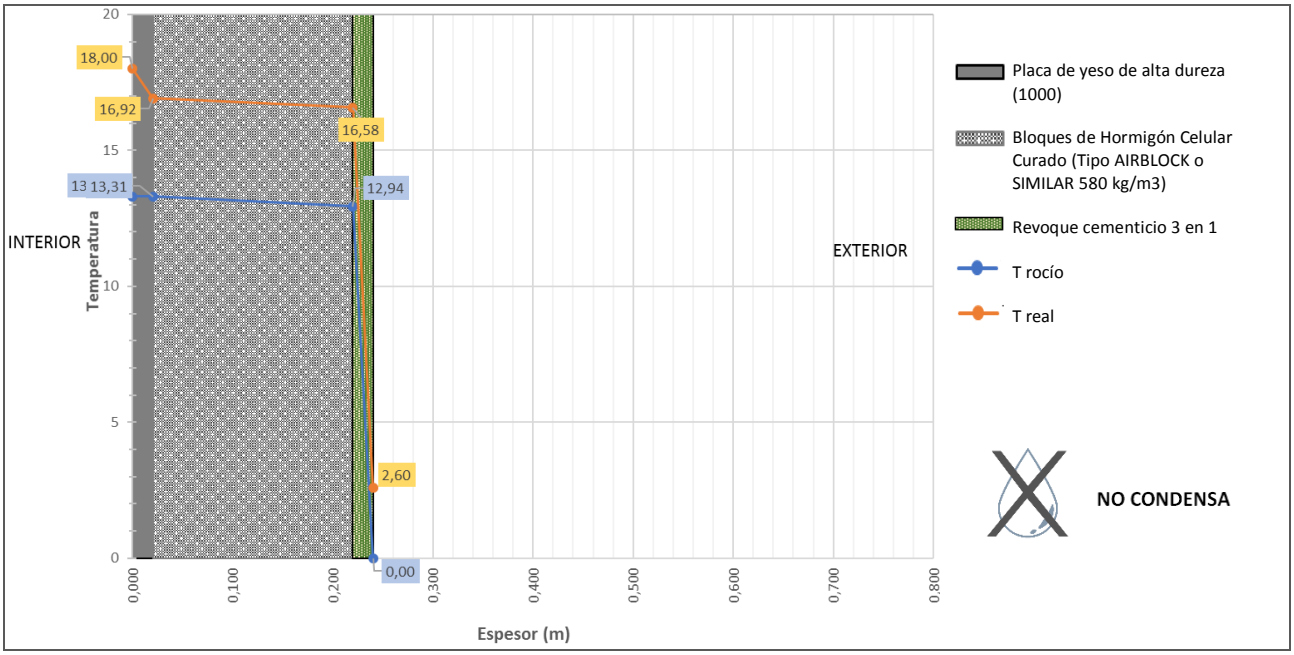
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,54 | 0,54 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



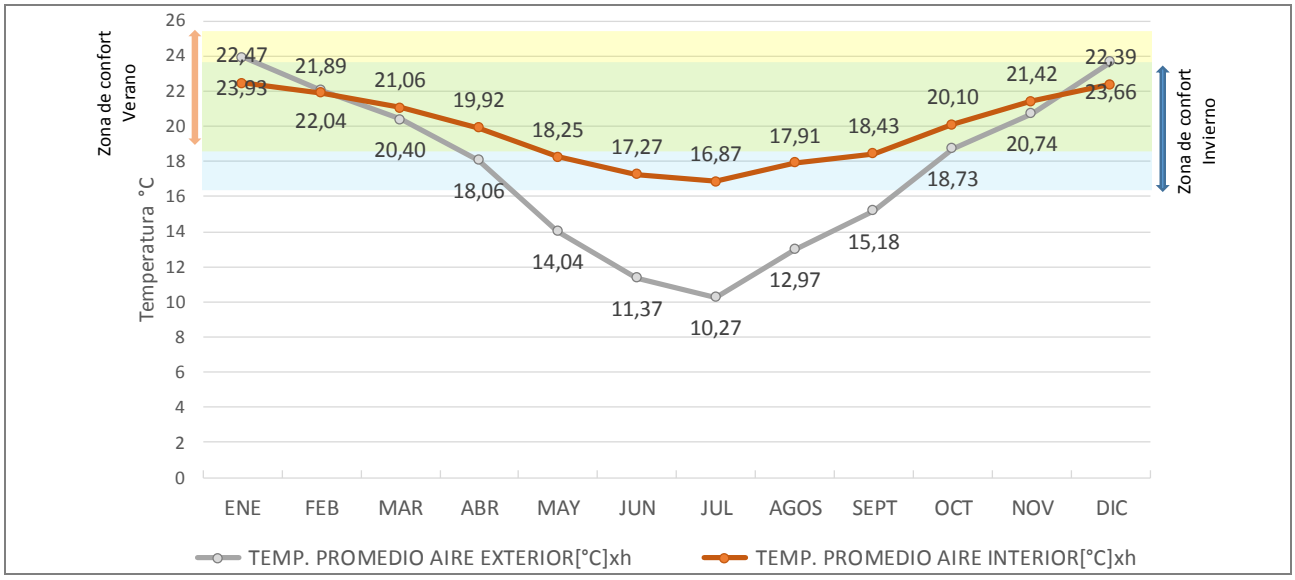

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 24,6 | 24,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,5** | **11,6** |
| | **Amortiguamiento:** | 0,014 | 0,014 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **9,0** | **8,5** |
| | **Amortiguamiento:** | 0,095 | 0,108 |

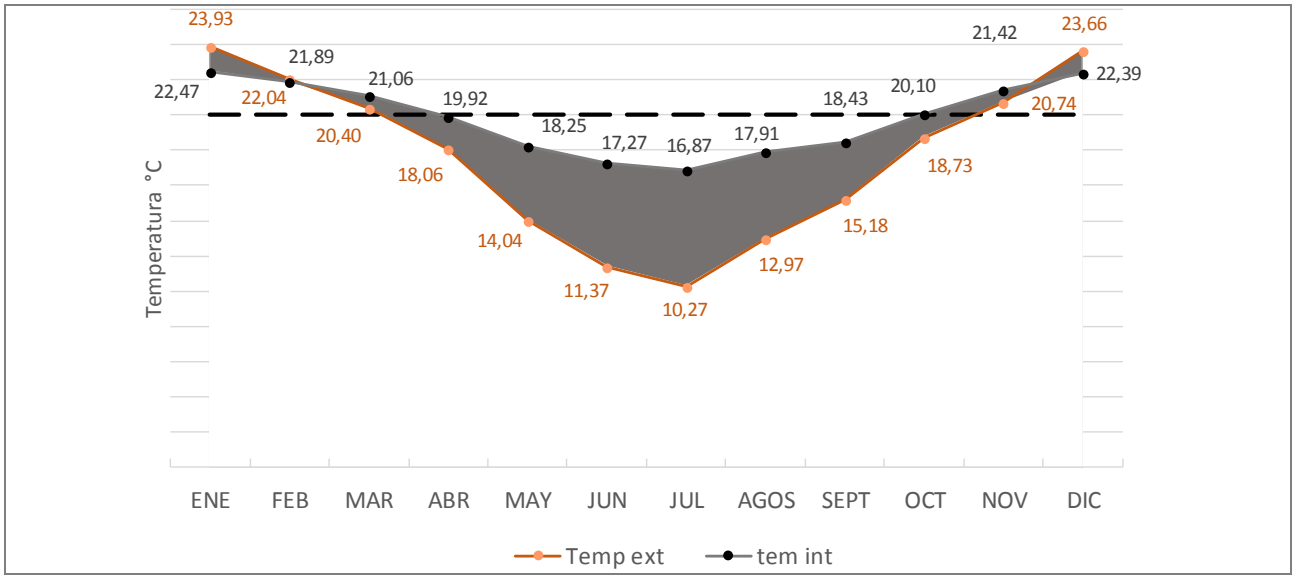
| HCCA-021 | MU | HCCA |
|---|---|---|

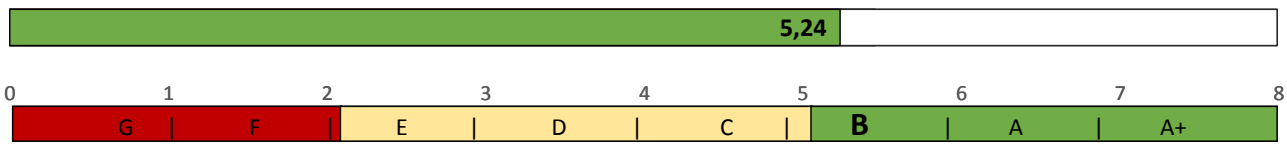
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,64** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,62** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



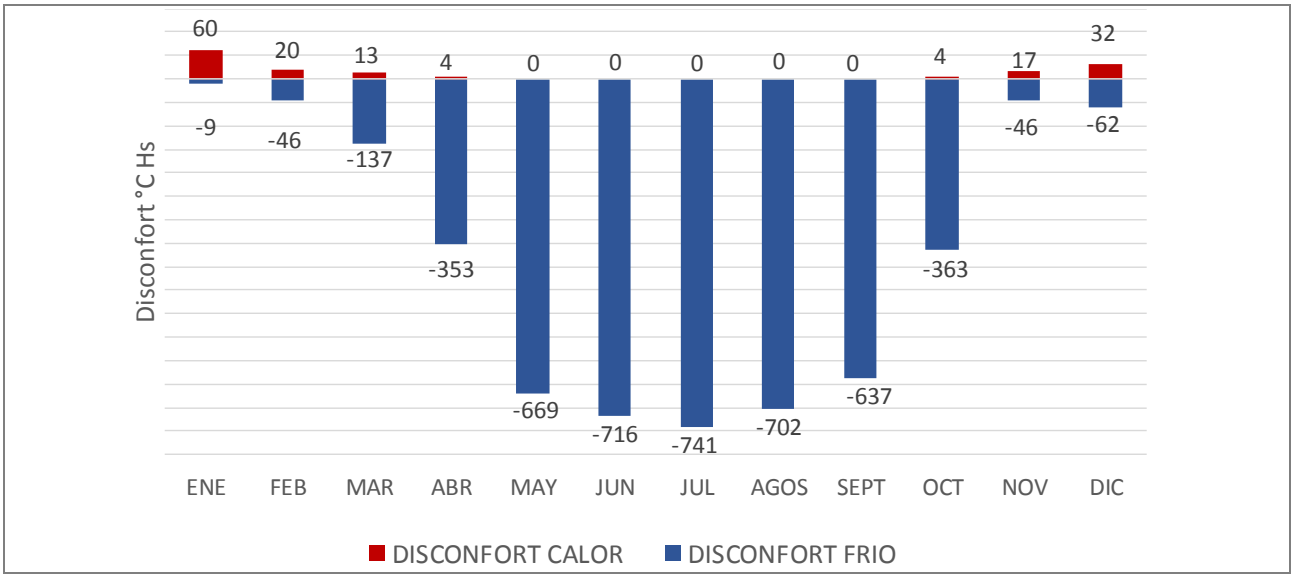




5,24 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| HCCA-021 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

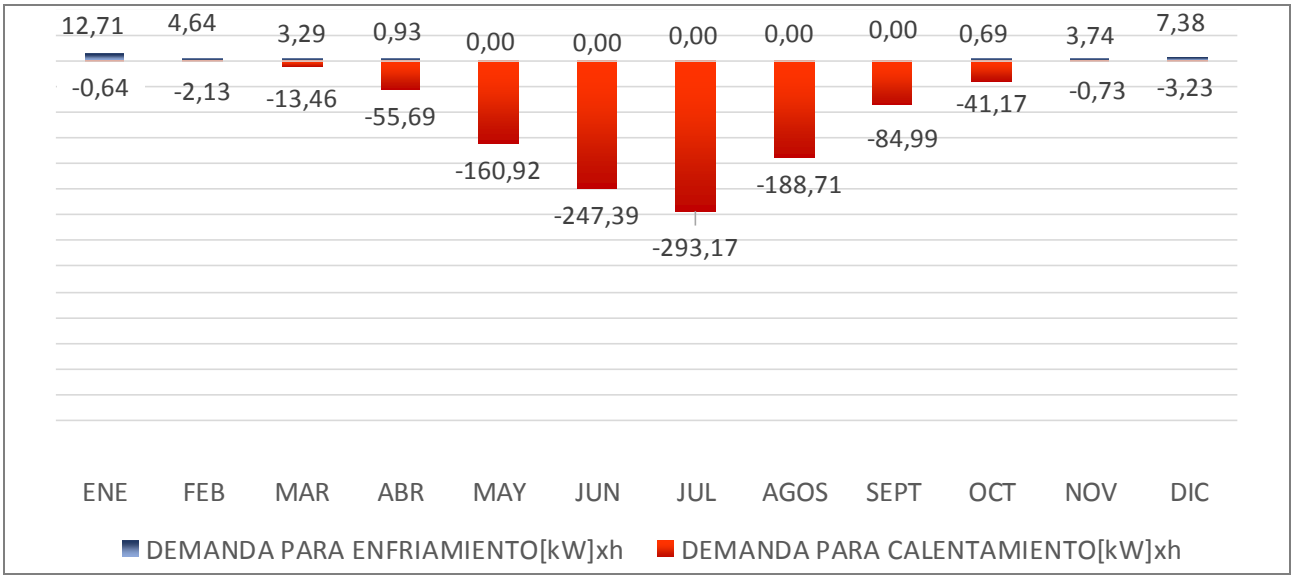
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **151** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.483** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.634** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

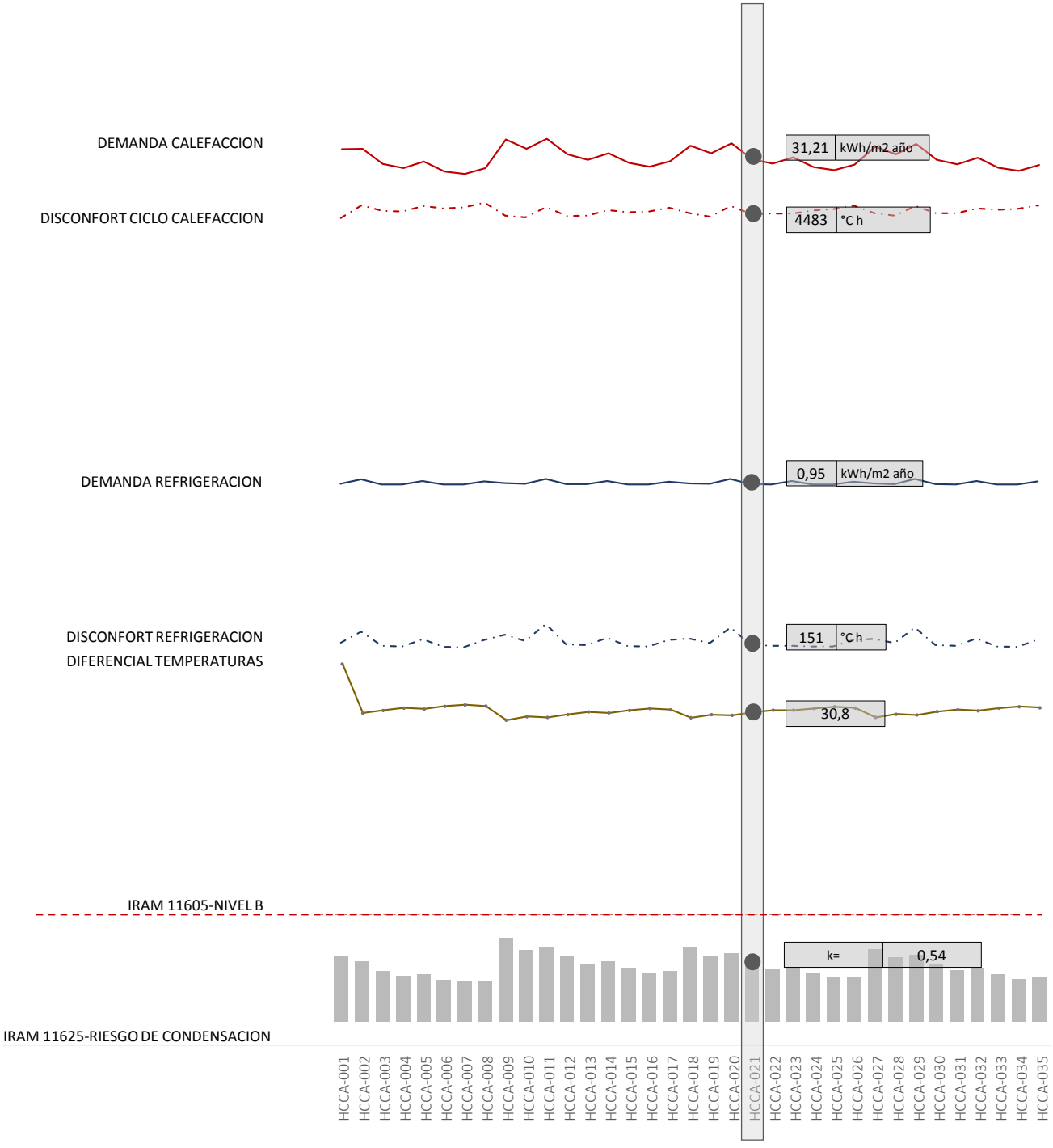



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **33,38** | kWh | 0,95 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.092,22** | kWh | 31,21 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.125,60** | kWh | **32,16** | kWh/m2/año |

| HCCA-021 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 134 | N° 132 | N° 102 | N° 023 | N° 035 | N° 024 |



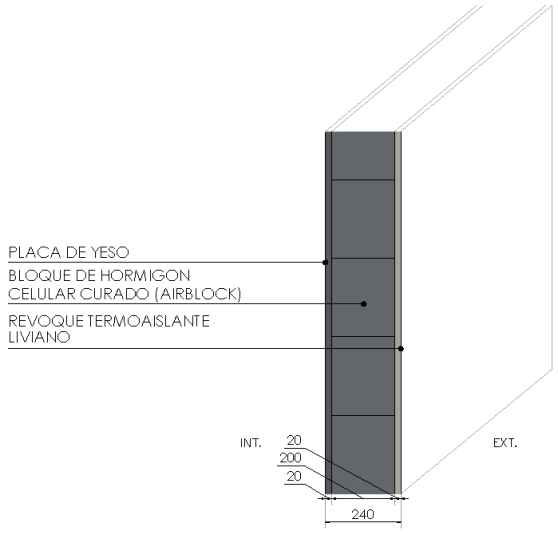

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,54 | 0% | 30,80 | 31,21 | 0,95 | 4483,00 | 151,00 |
| INC. FAMILIA | 102,23% | 0% | 99,29% | 99,51% | 78,51% | 99,49% | 84,48% |
| INC. MUNDIAL | 45,40% | 0% | 99,96% | 75,89% | 15,83% | 100,48% | 29,54% |

| HCCA-022 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

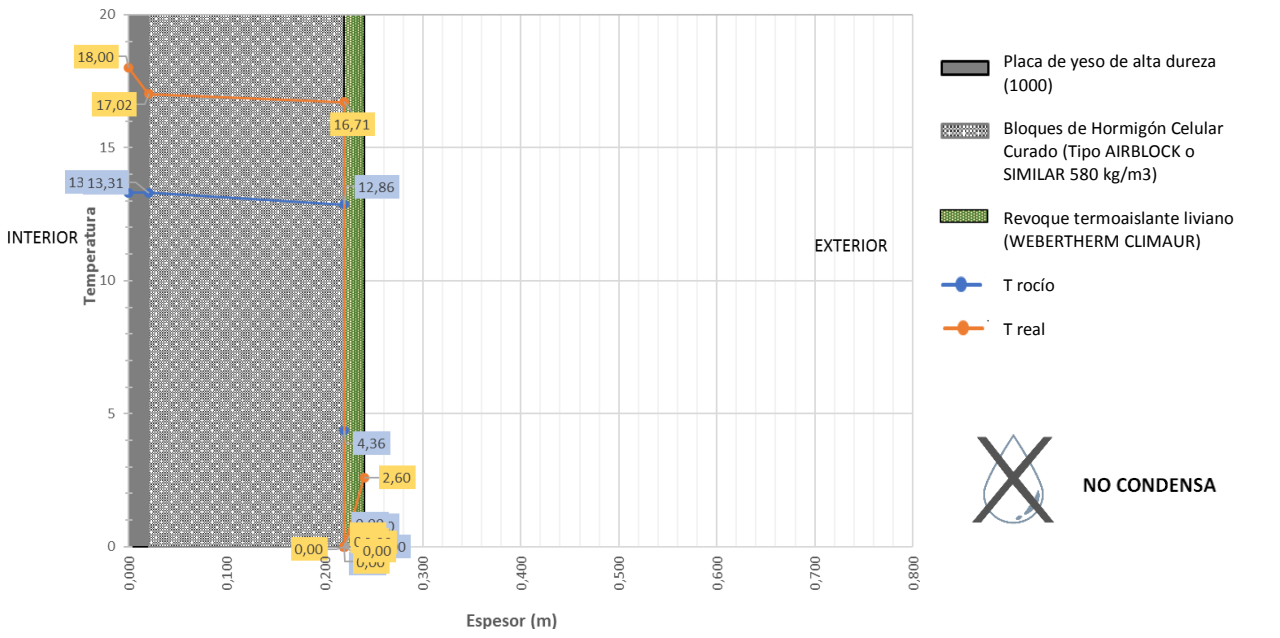
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,49 | 0,49 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



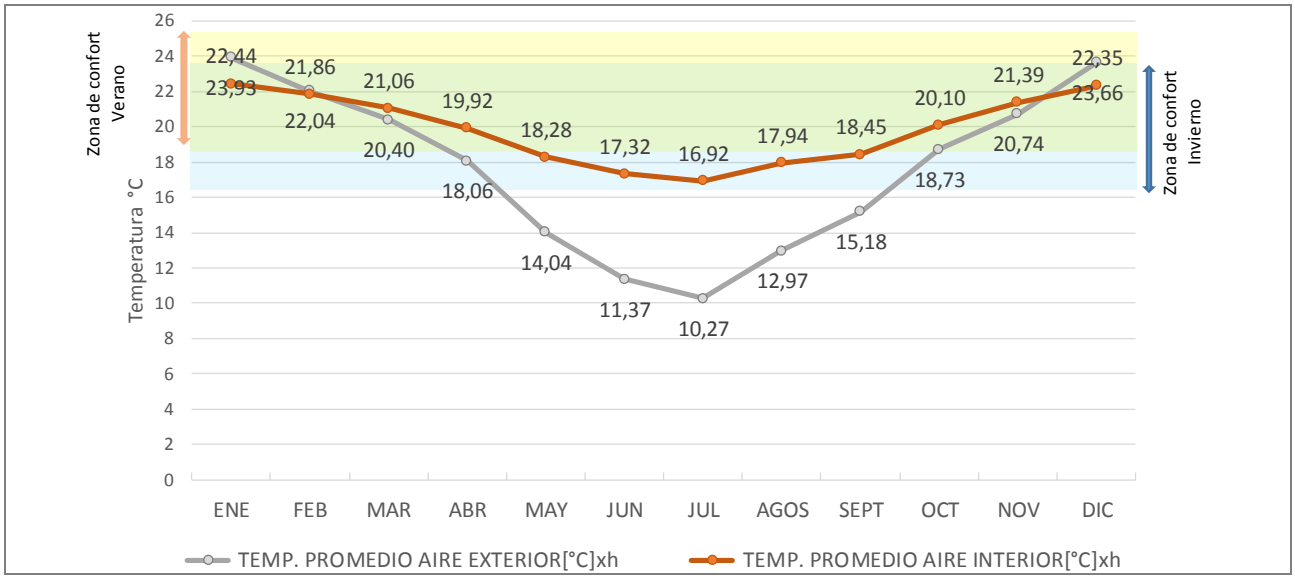

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 20,3 | Invierno 22,3 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,6** | **12,2** |
| | **Amortiguamiento:** | 0,014 | 0,011 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,4** | **9,2** |
| | **Amortiguamiento:** | 0,112 | 0,089 |

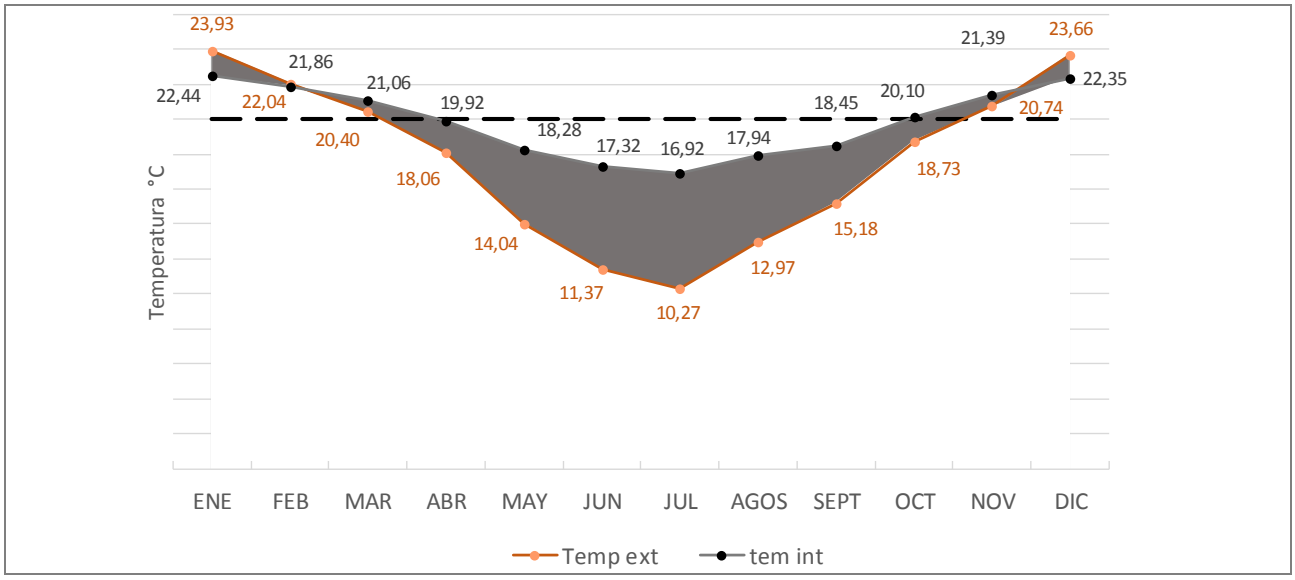
| HCCA-022 | MU | HCCA |
|---|---|---|

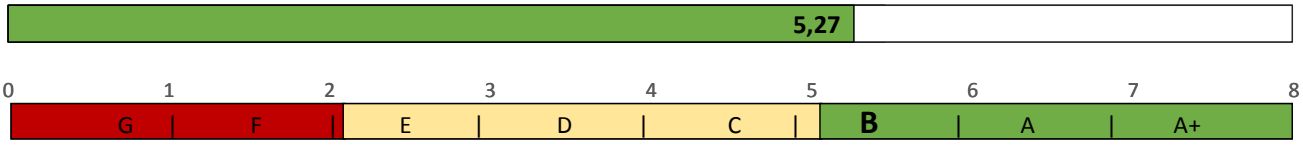
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,61** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,74** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



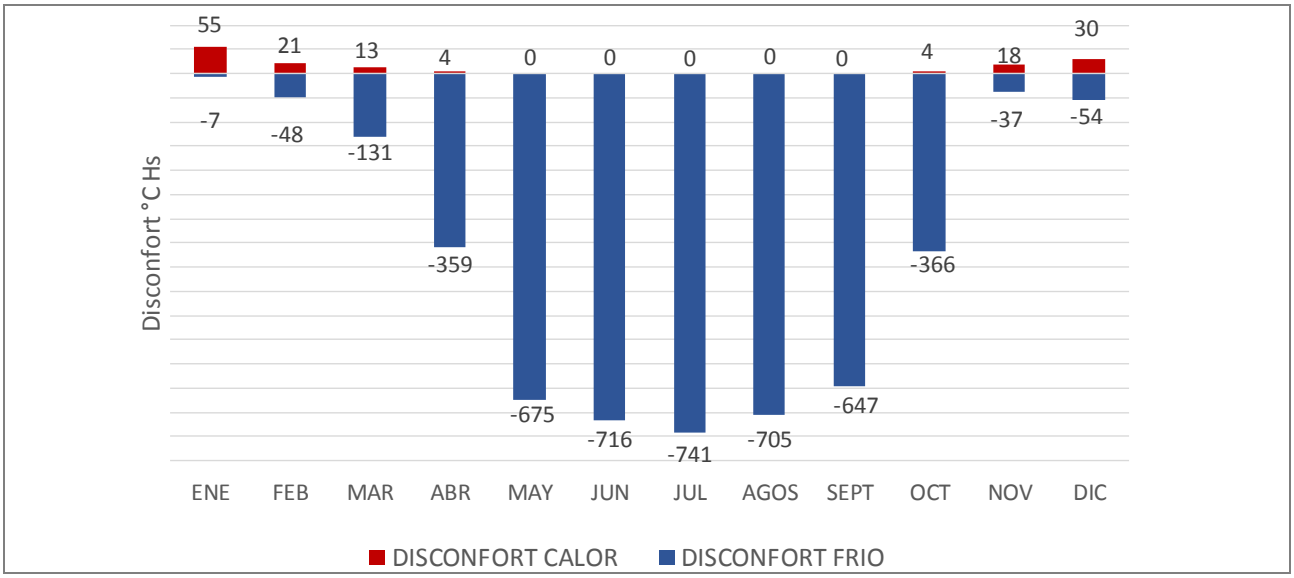




5,27 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-022 | MU | HCCA |
|---|---|---|

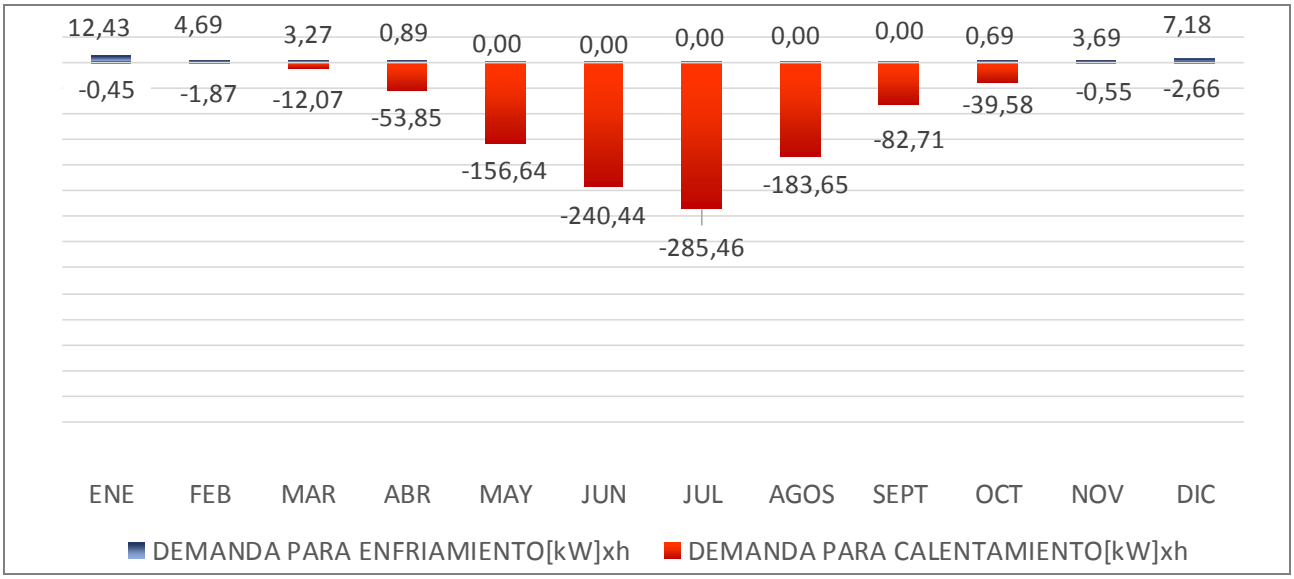
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **145** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.487** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.632** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

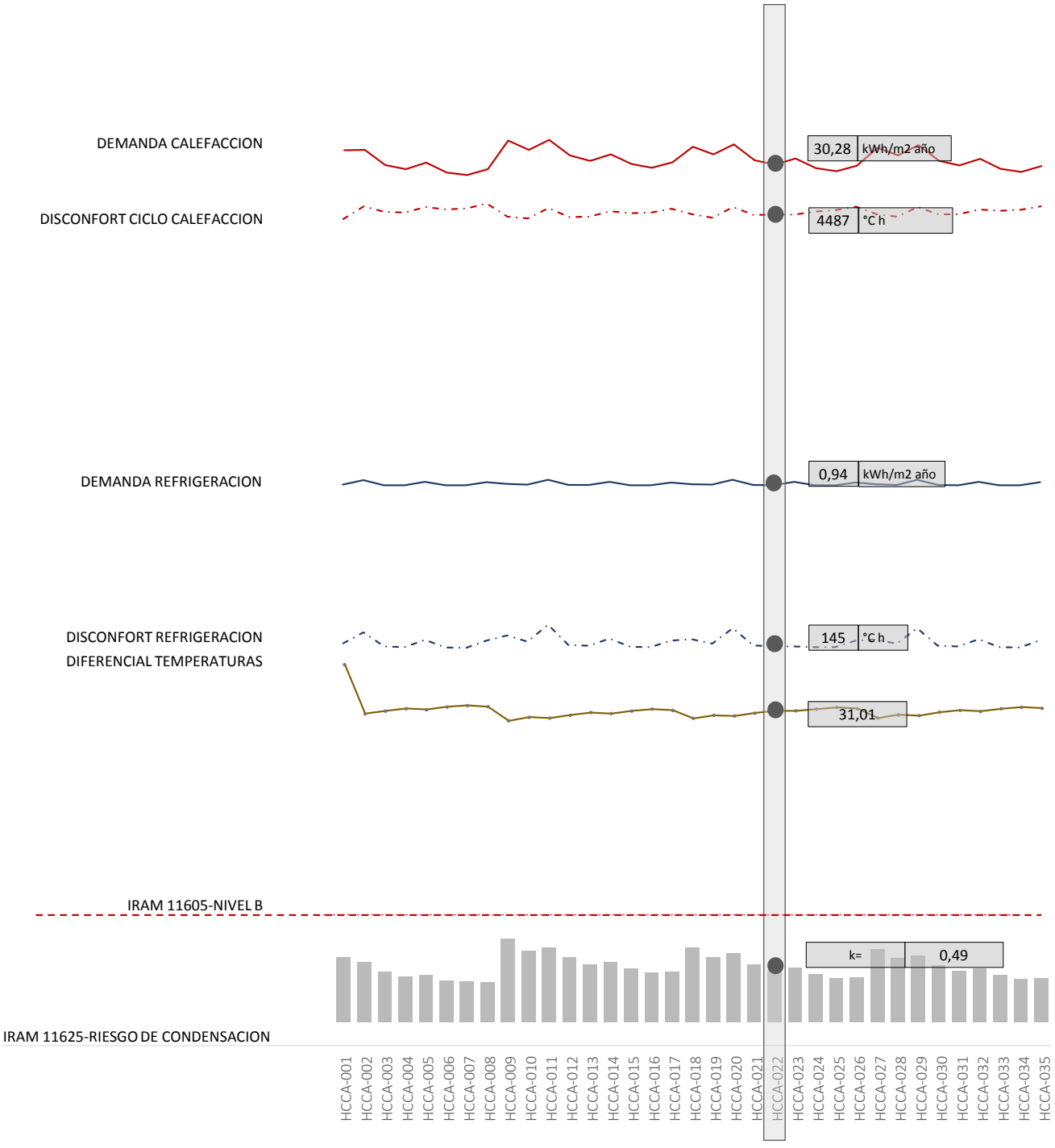



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **32,84** | kWh | 0,94 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.059,94** | kWh | 30,28 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.092,78** | kWh | **31,22** | kWh/m2/año |

| HCCA-022 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 117 | N° 107 | N° 080 | N° 021 | N° 039 | N° 020 |



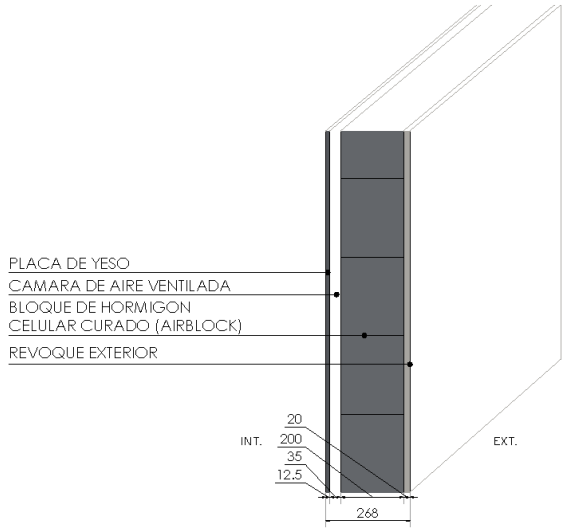

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,49 | 0% | 31,01 | 30,28 | 0,94 | 4487,00 | 145,00 |
| INC. FAMILIA | 92,76% | 0% | 99,96% | 96,55% | 77,69% | 99,58% | 81,13% |
| INC. MUNDIAL | 41,20% | 0% | 100,64% | 73,63% | 15,66% | 100,57% | 28,37% |

| HCCA-023 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK

## INDICE DE TRANSMITANCIA TERMICA "K"

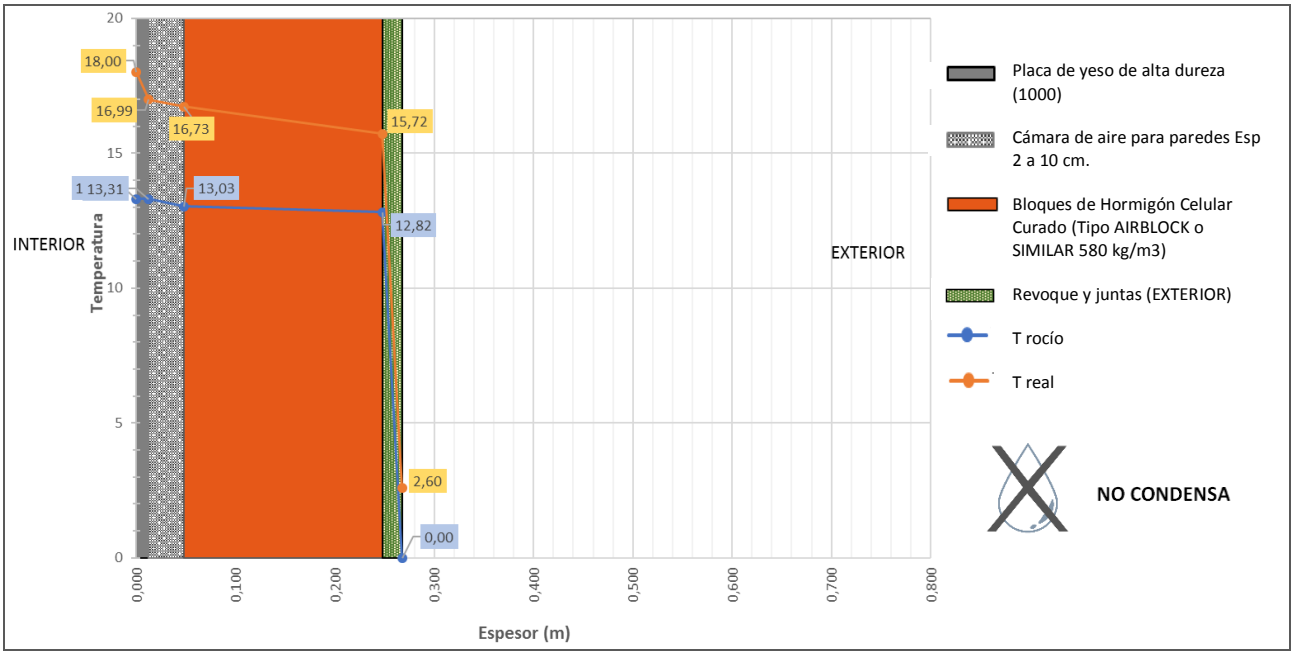
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,51 | 0,51 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



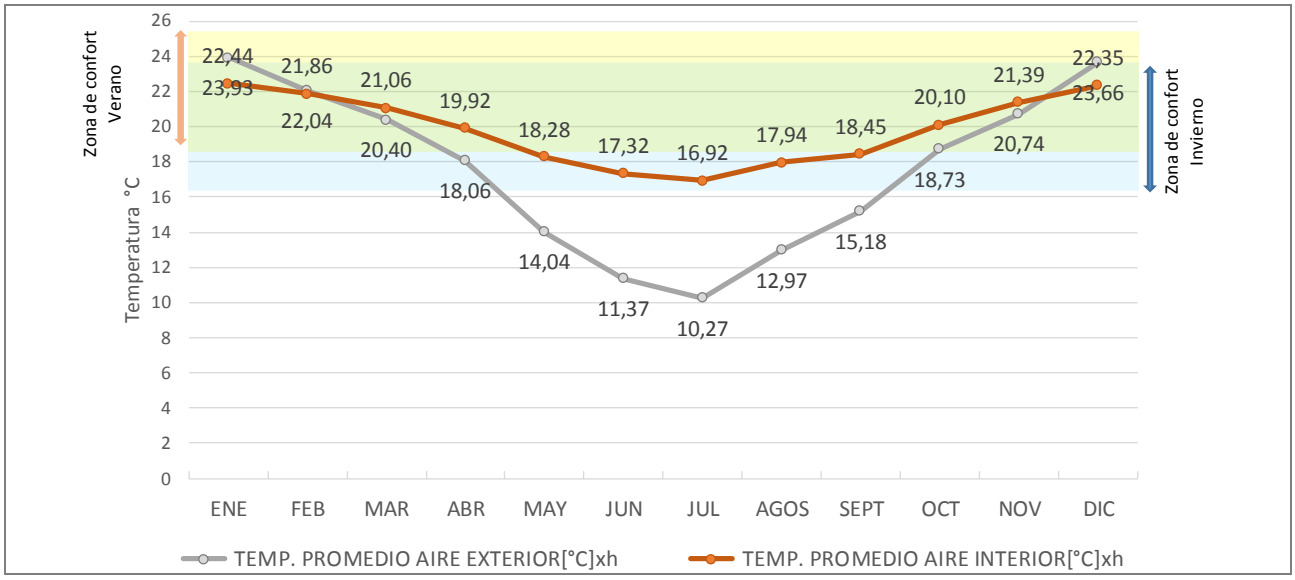

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 23,9 | 21,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,2** | **11,5** |
| | **Amortiguamiento:** | 0,011 | 0,014 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **9,7** | **8,0** |
| | **Amortiguamiento:** | 0,078 | 0,123 |

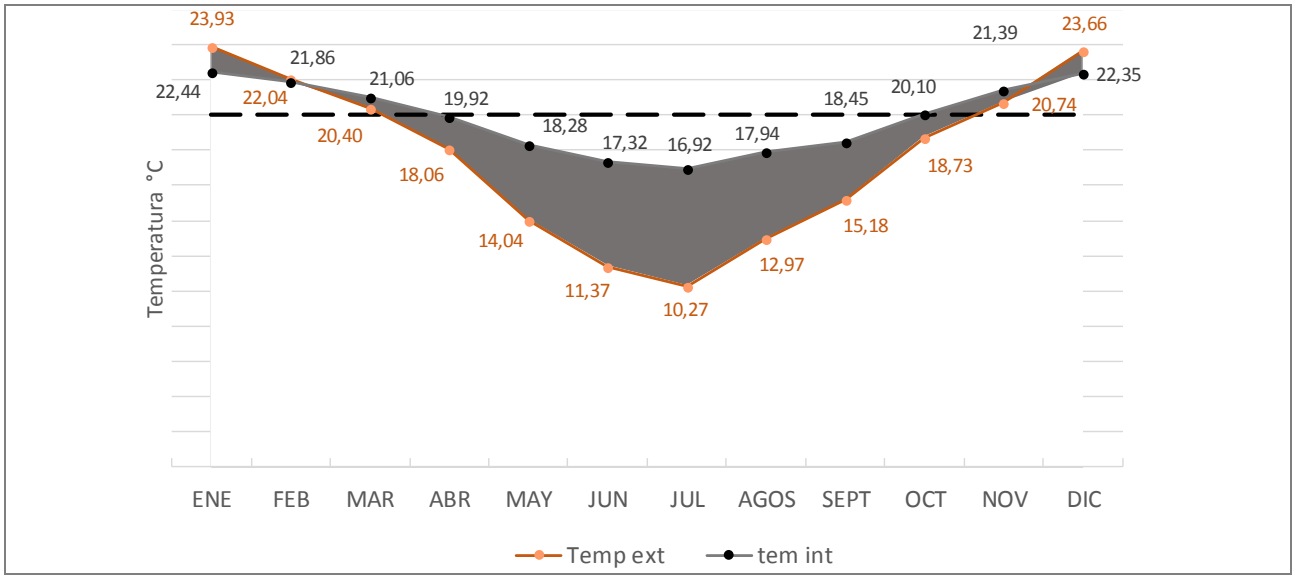
| HCCA-023 | MU | HCCA |
|---|---|---|

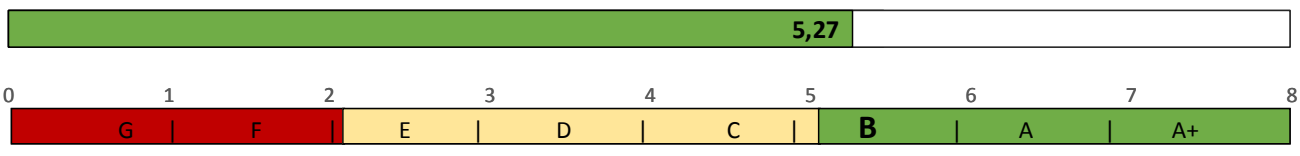
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,61** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,74** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



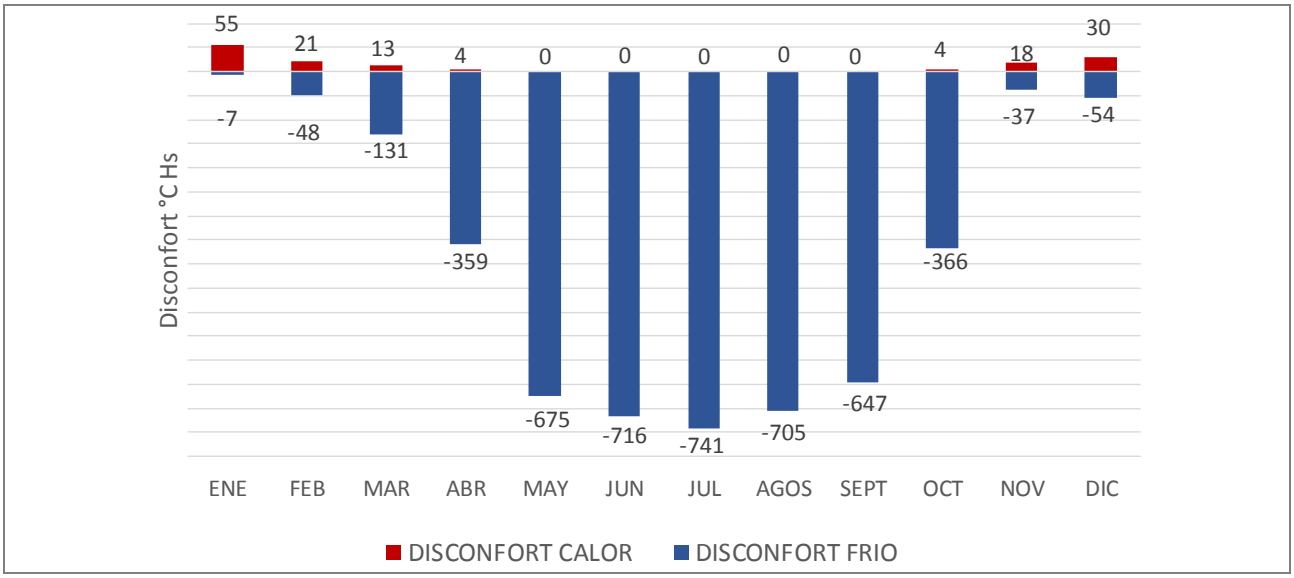




5,27 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-023 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

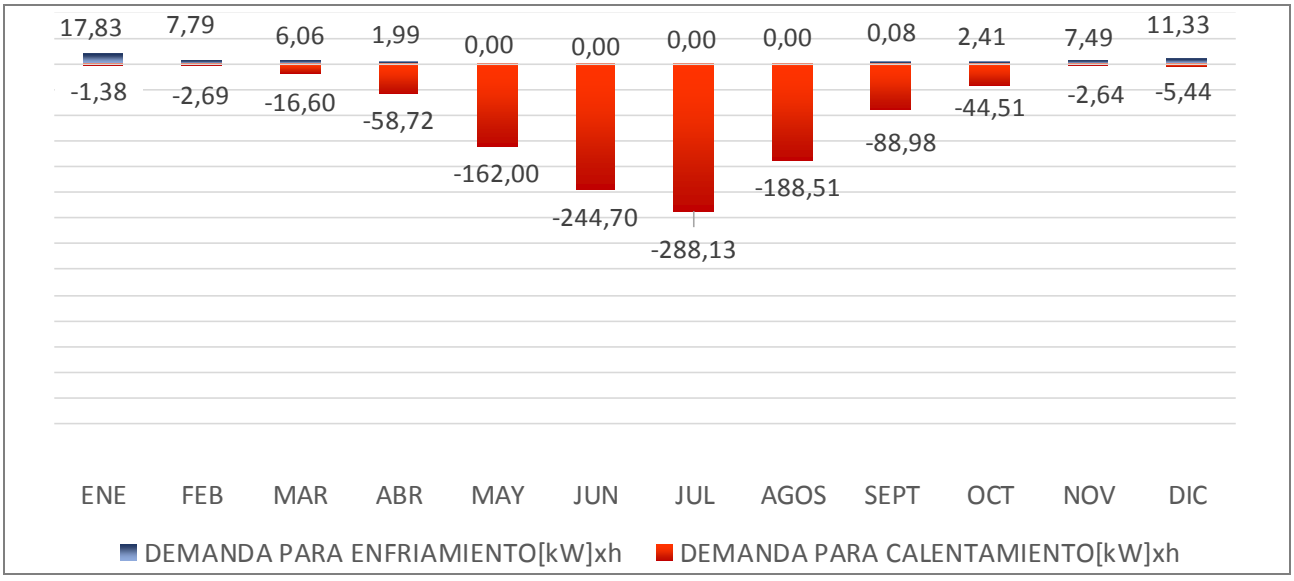
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **145** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.487** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.632** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

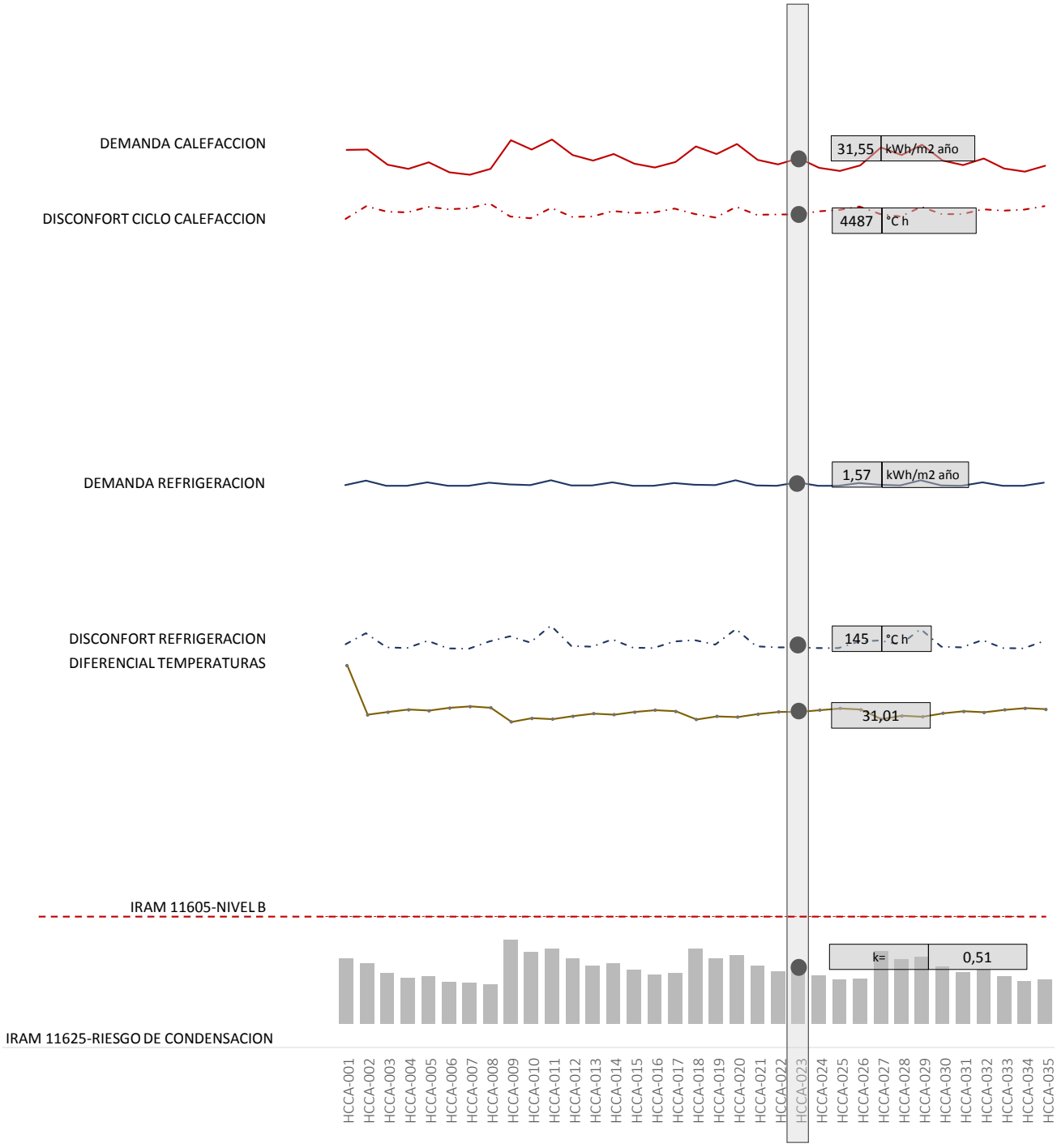



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **54,97** | kWh | 1,57 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.104,29** | kWh | 31,55 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.159,26** | kWh | **33,12** | kWh/m2/año |

| HCCA-023 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 127 | N° 108 | N° 106 | N° 114 | N° 040 | N° 021 |



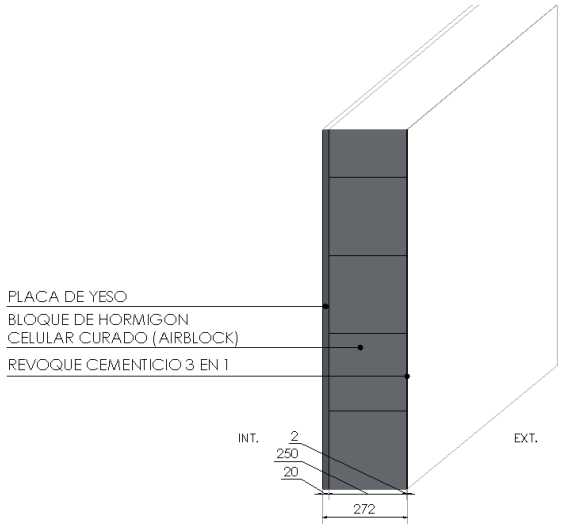

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,51 | 0% | 31,01 | 31,55 | 1,57 | 4487,00 | 145,00 |
| INC. FAMILIA | 96,55% | 0% | 99,96% | 100,60% | 129,75% | 99,58% | 81,13% |
| INC. MUNDIAL | 42,88% | 0% | 100,64% | 76,72% | 26,16% | 100,57% | 28,37% |

| HCCA-024 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (AIRBLOCK 580) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

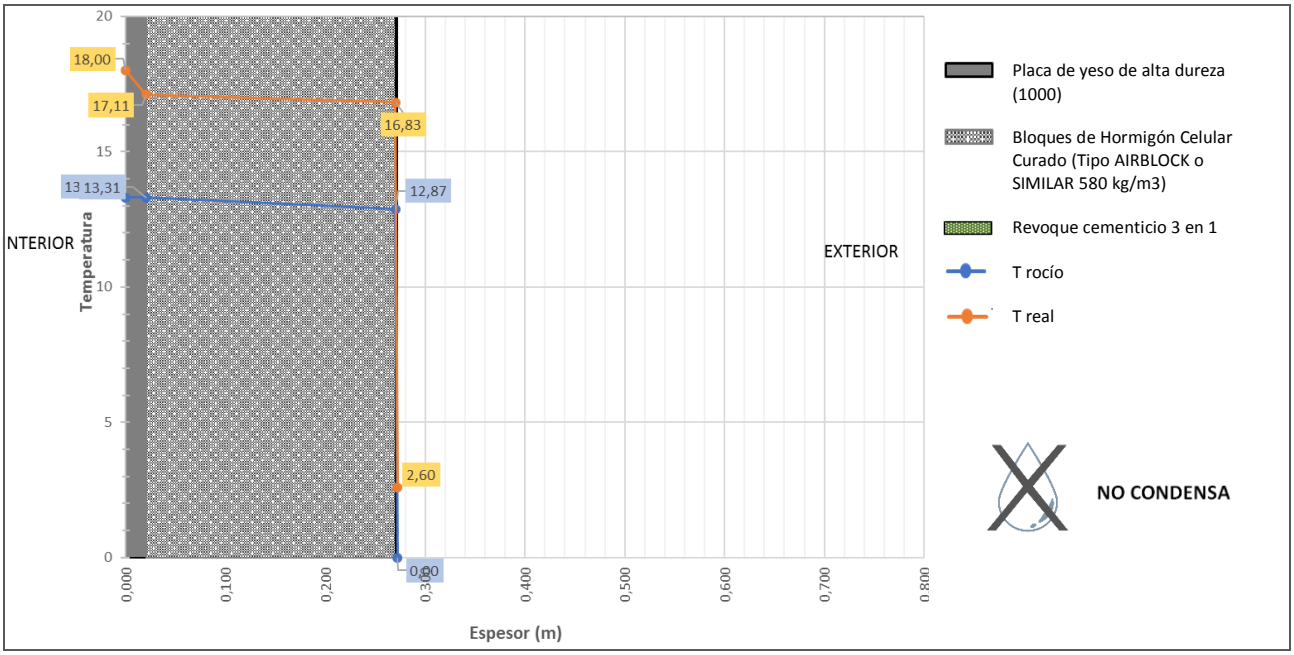
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,45 | 0,45 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



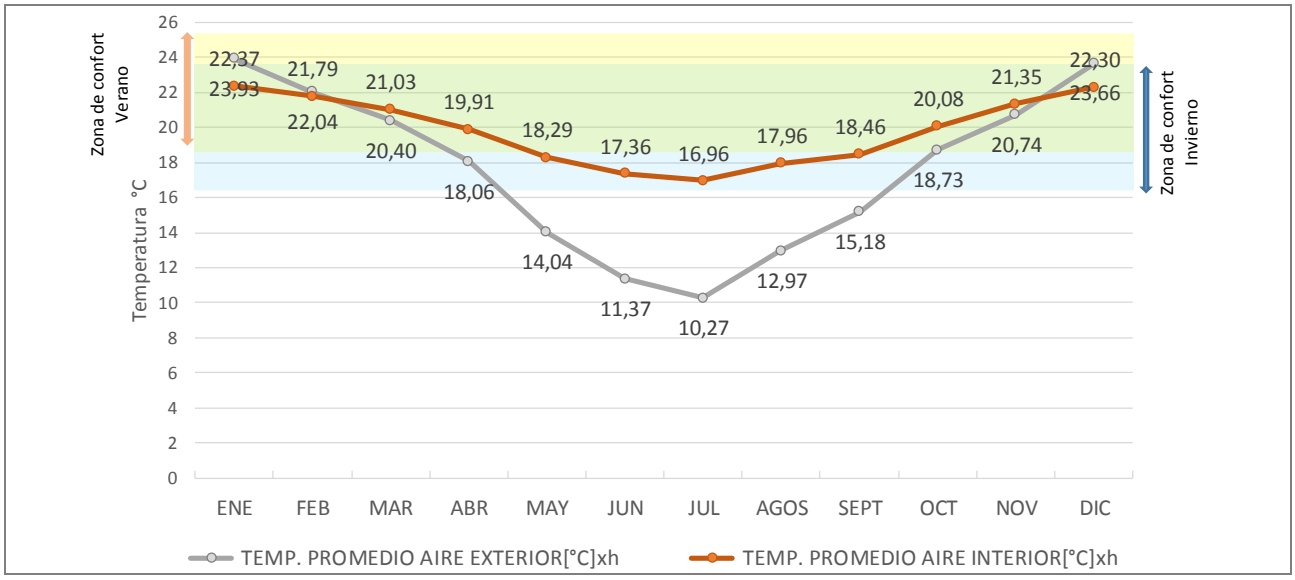

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 21,6 | Invierno 24,3 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **13,3** | **14,1** |
| | **Amortiguamiento:** | 0,007 | 0,005 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **9,8** | **10,2** |
| | **Amortiguamiento:** | 0,078 | 0,070 |

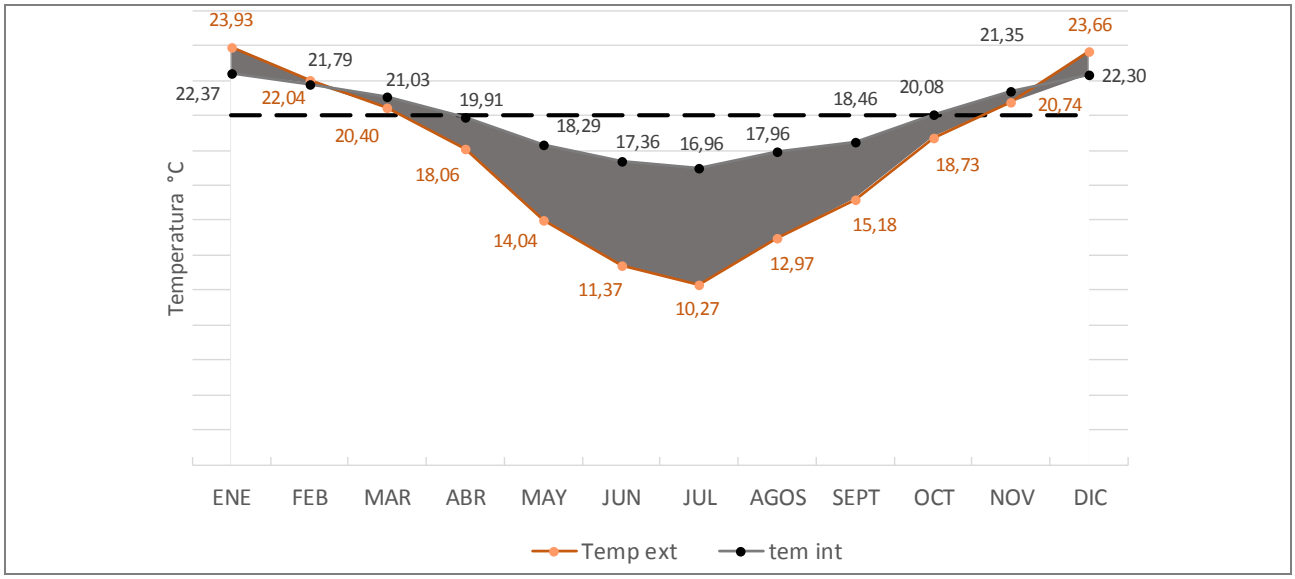
| HCCA-024 | MU | HCCA |
|---|---|---|

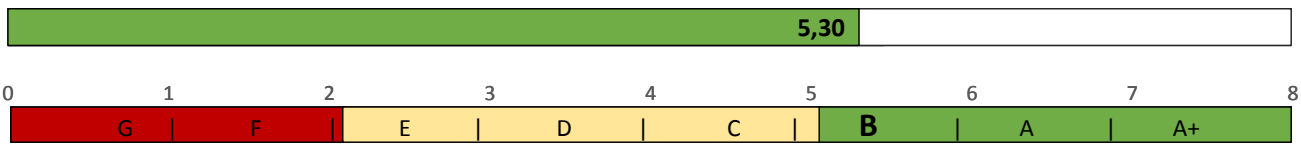
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,55** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,82** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



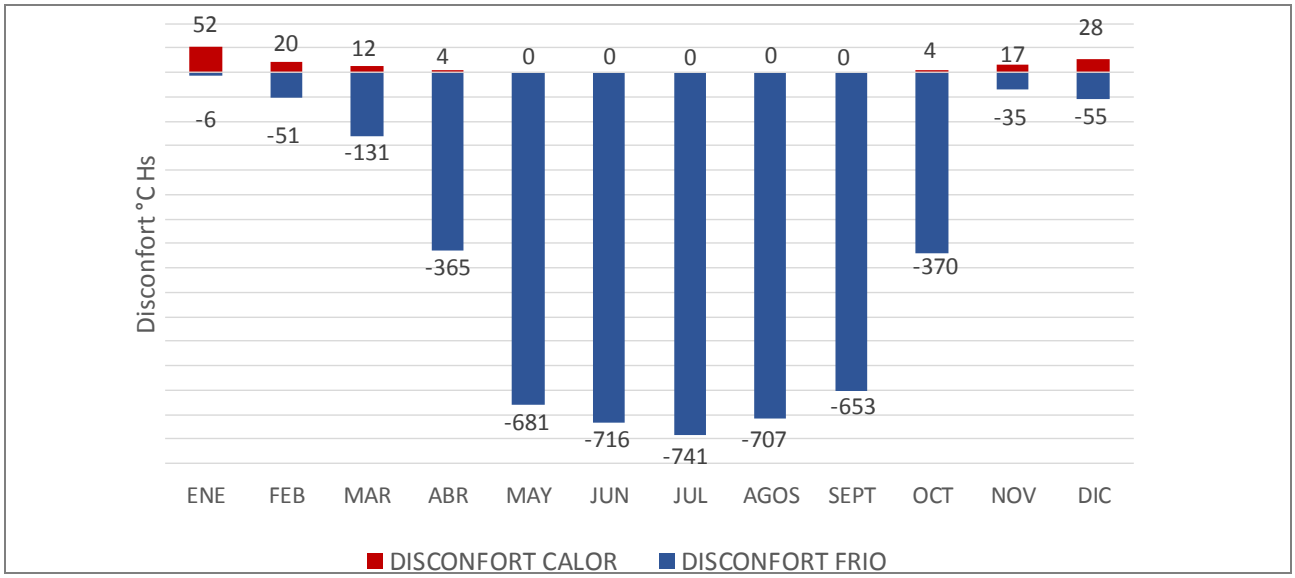




5,30 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-024 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

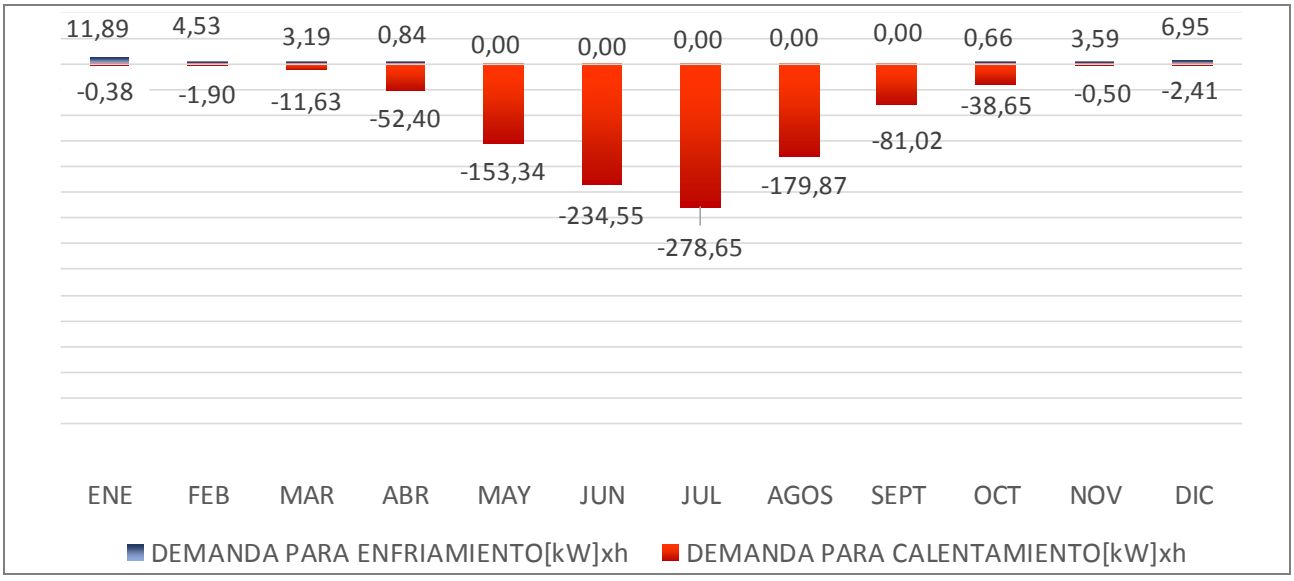
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **137** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.511** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.486** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

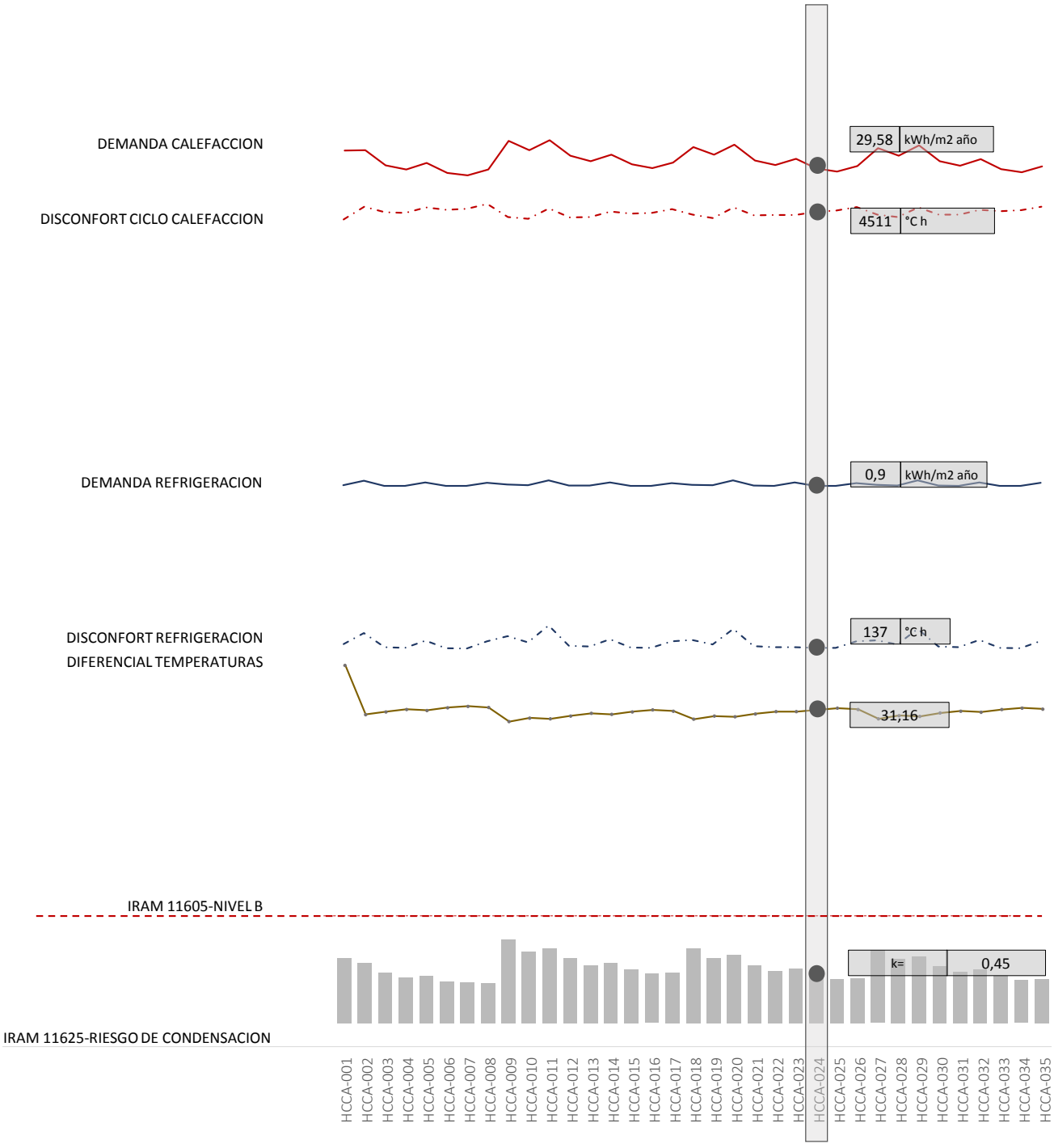



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **31,65** | kWh | 0,90 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.035,31** | kWh | 29,58 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.066,96** | kWh | **30,48** | kWh/m2/año |

| HCCA-024 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 095 | N° 095 | N° 050 | N° 013 | N° 065 | N° 009 |



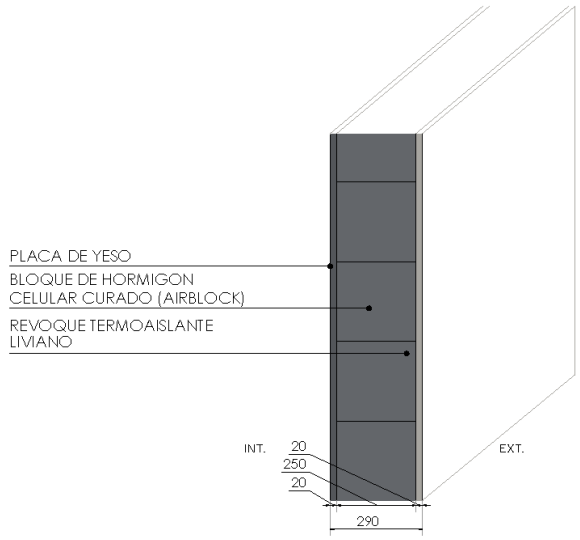

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,45 | 0% | 31,16 | 29,58 | 0,90 | 4511,00 | 137,00 |
| INC. FAMILIA | 85,19% | 0% | 100,45% | 94,32% | 74,38% | 100,11% | 76,65% |
| INC. MUNDIAL | 37,83% | 0% | 101,12% | 71,93% | 15,00% | 101,11% | 26,80% |

| HCCA-025 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

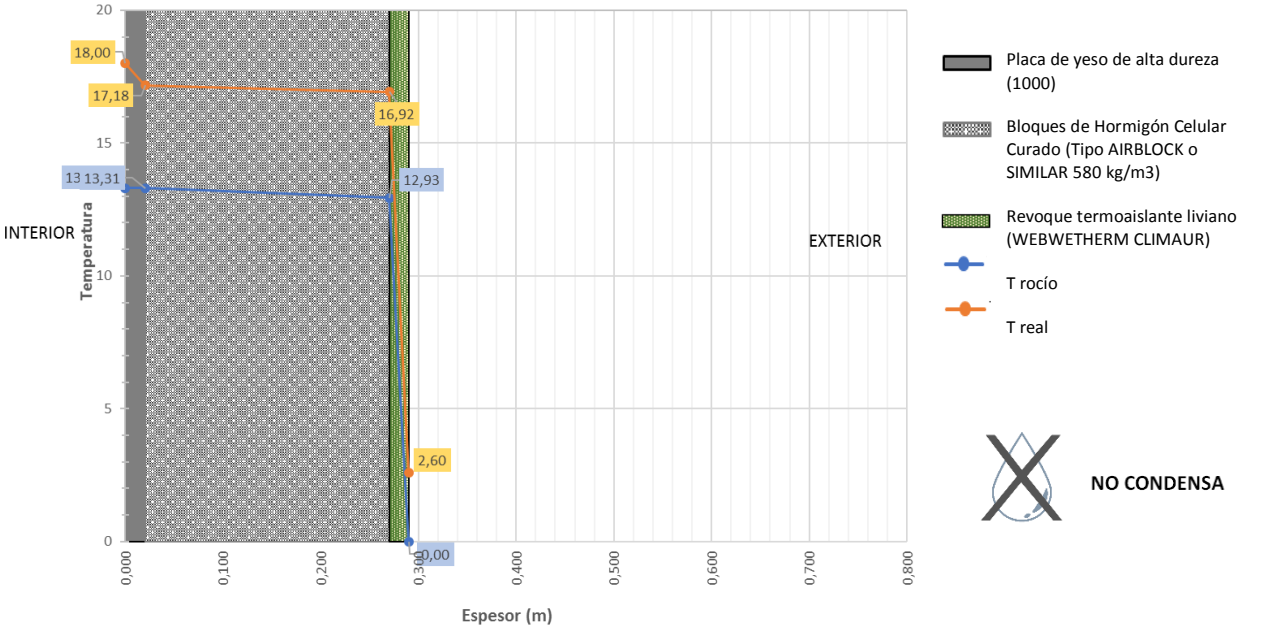
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,41 | 0,41 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



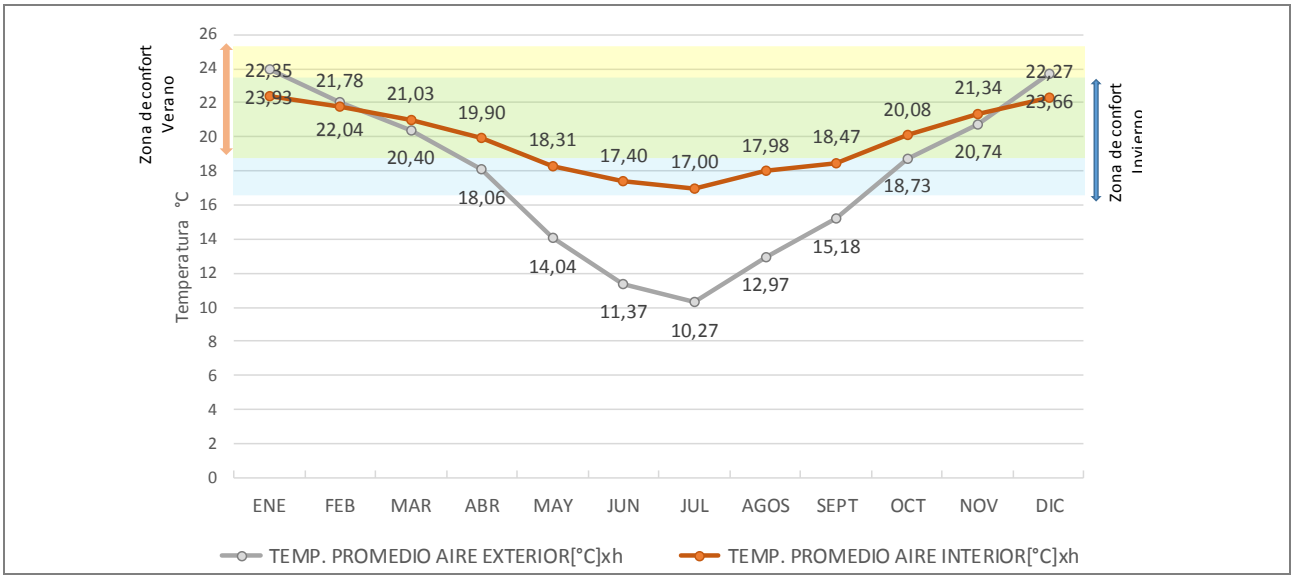

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 20,6 | Invierno 22,2 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,2** | **14,8** |
| | **Amortiguamiento:** | 0,005 | 0,004 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,1** | **11,0** |
| | **Amortiguamiento:** | 0,070 | 0,056 |

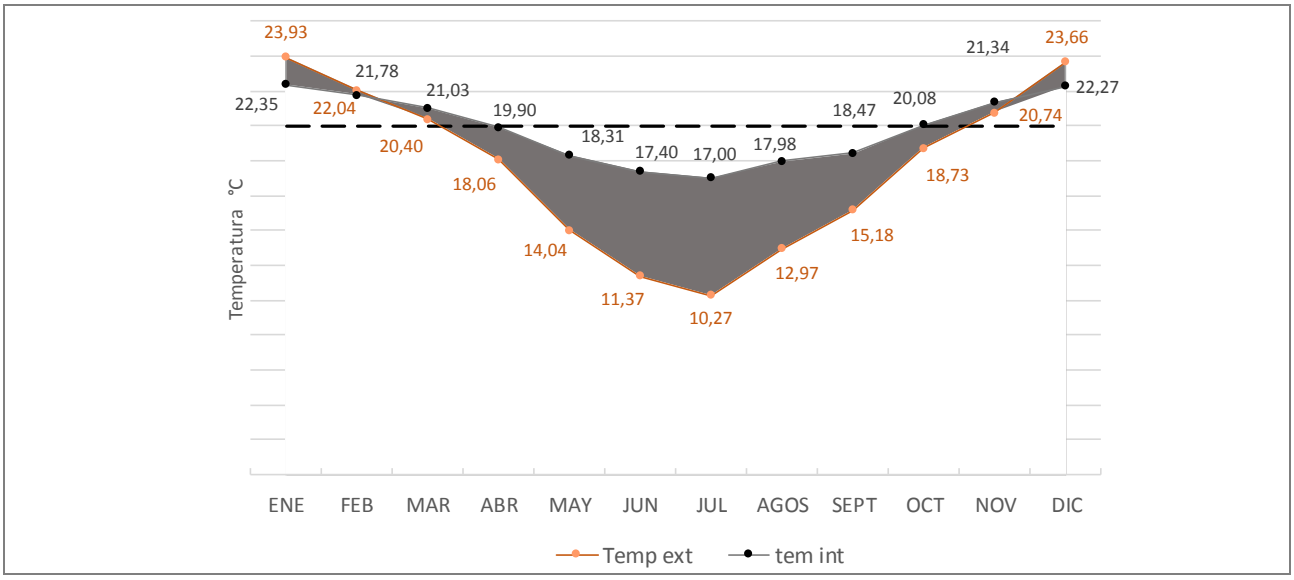
| HCCA-025 | MU | HCCA |
|---|---|---|

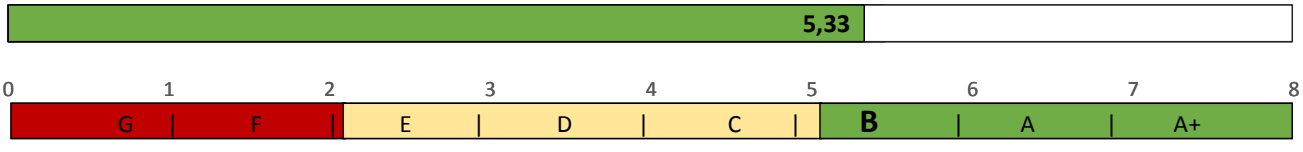
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 4/01 16:00 hs | **24,53** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,86** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



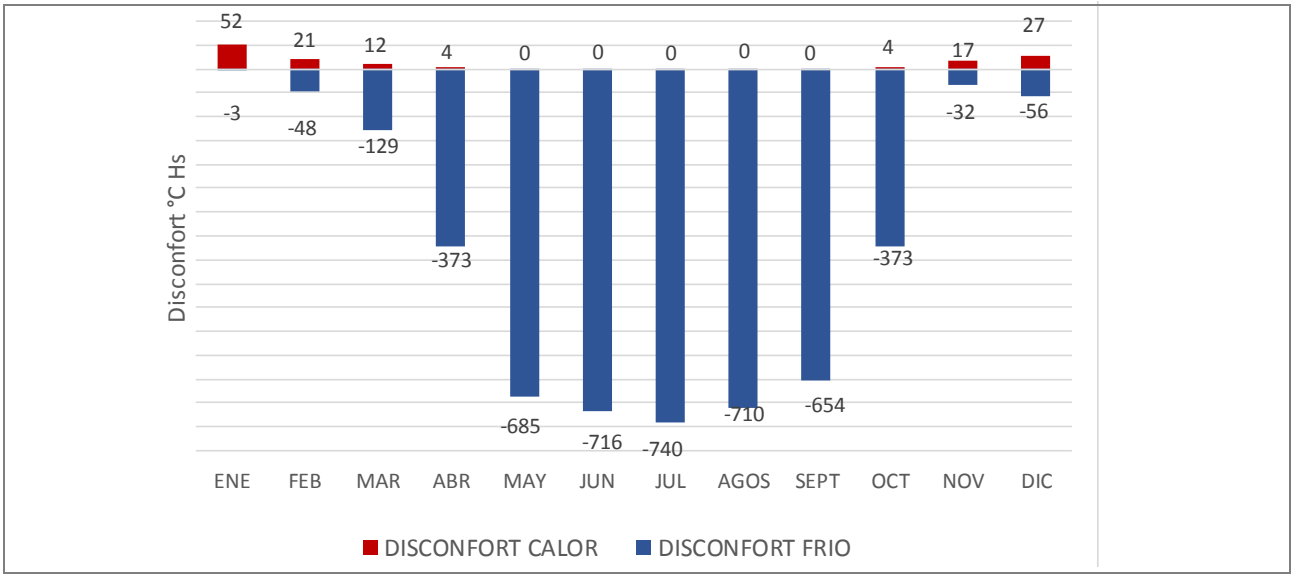




5,33 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| HCCA-025 | MU | HCCA |
|---|---|---|

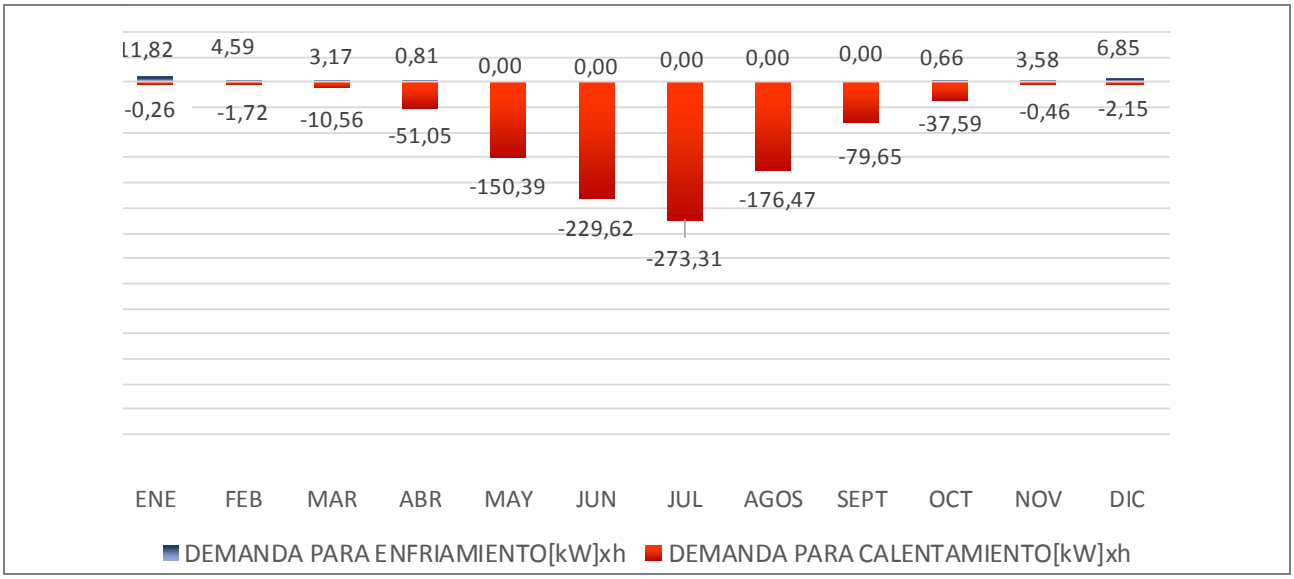
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **137** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.519** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.656** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

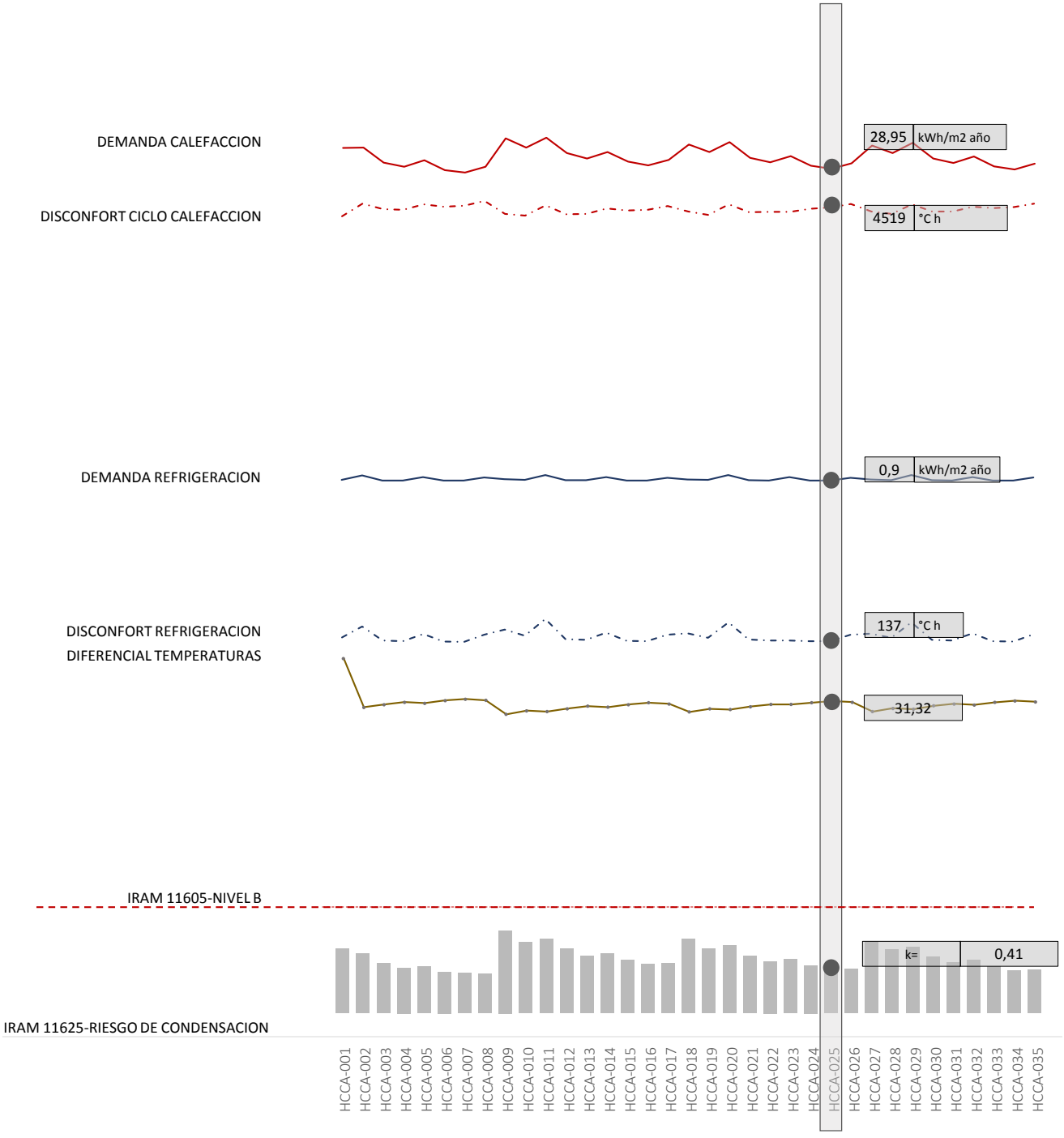



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **31,49** | kWh | 0,90 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.013,23** | kWh | 28,95 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.046,72** | kWh | **29,85** | kWh/m2/año |

| HCCA-025 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 077 | N° 068 | N° 026 | N° 011 | N° 076 | N° 010 |



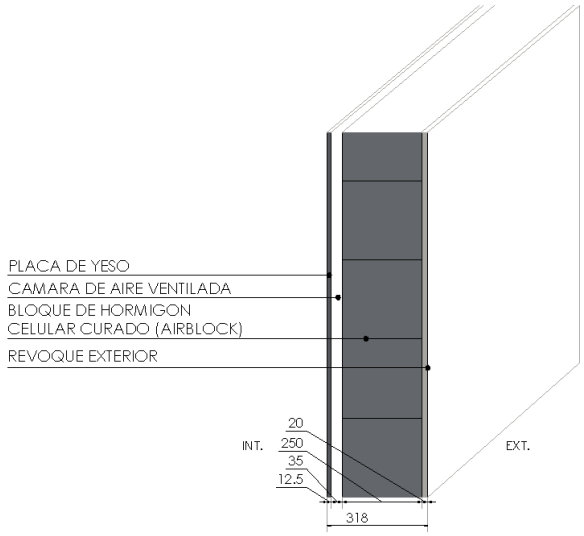

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,41 | 0% | 31,32 | 28,95 | 0,90 | 4519,00 | 137,00 |
| INC. FAMILIA | 77,62% | 0% | 100,96% | 92,31% | 74,38% | 100,29% | 76,65% |
| INC. MUNDIAL | 34,47% | 0% | 101,64% | 70,39% | 15,00% | 101,29% | 26,80% |

| HCCA-026 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (AIRBLOCK 580) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK

## INDICE DE TRANSMITANCIA TERMICA "K"

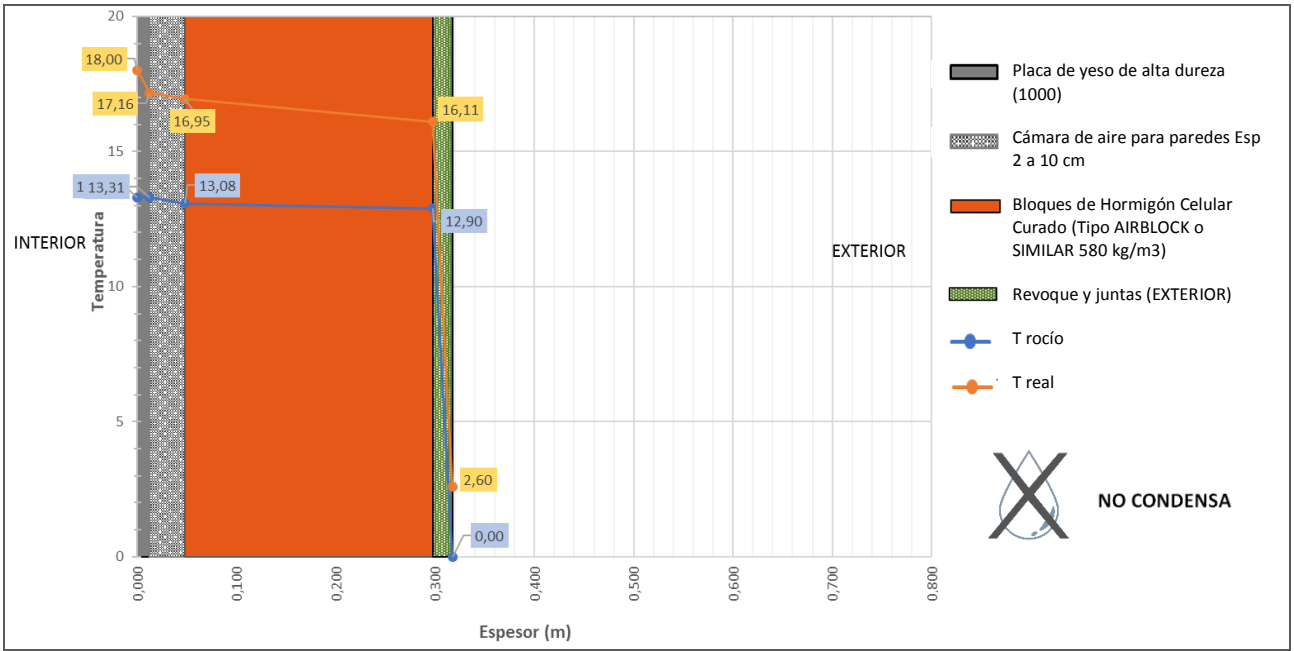
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,42 | 0,42 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



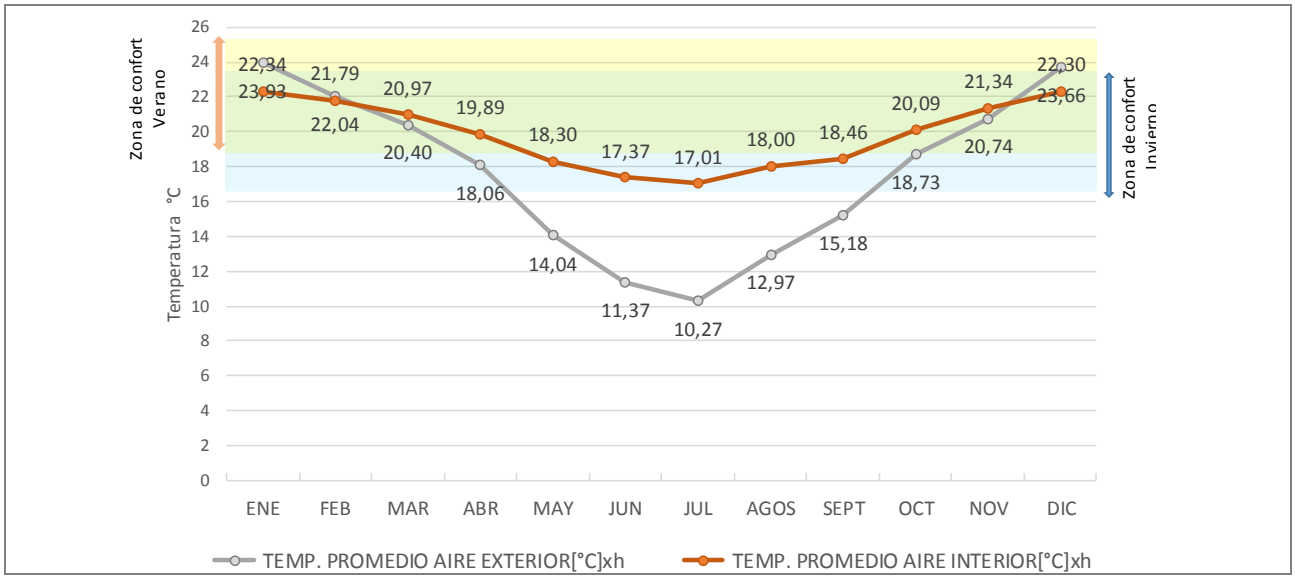

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 23,5 | Invierno 21,4 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,8** | **14,1** |
| | **Amortiguamiento:** | 0,004 | 0,005 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,5** | **9,8** |
| | **Amortiguamiento:** | 0,049 | 0,078 |

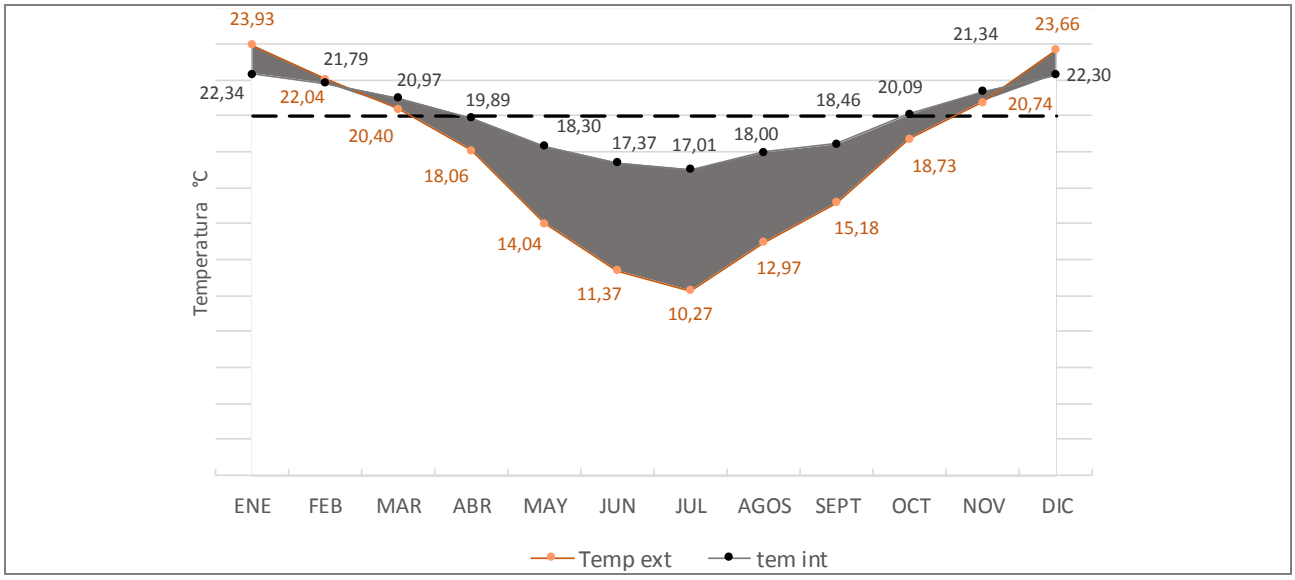
| HCCA-026 | MU | HCCA |
|---|---|---|

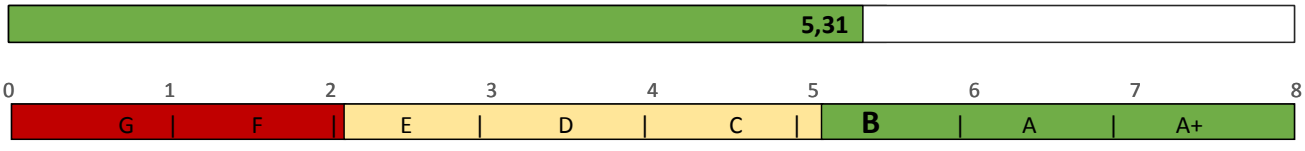
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,81** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,65** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



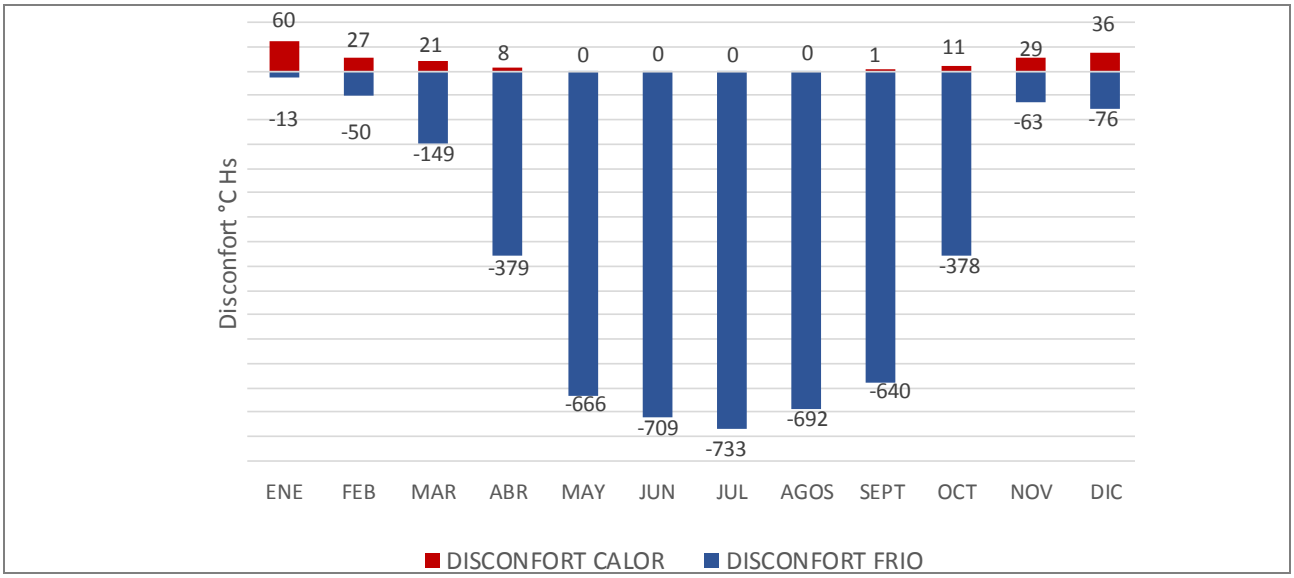




5,31 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-026 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

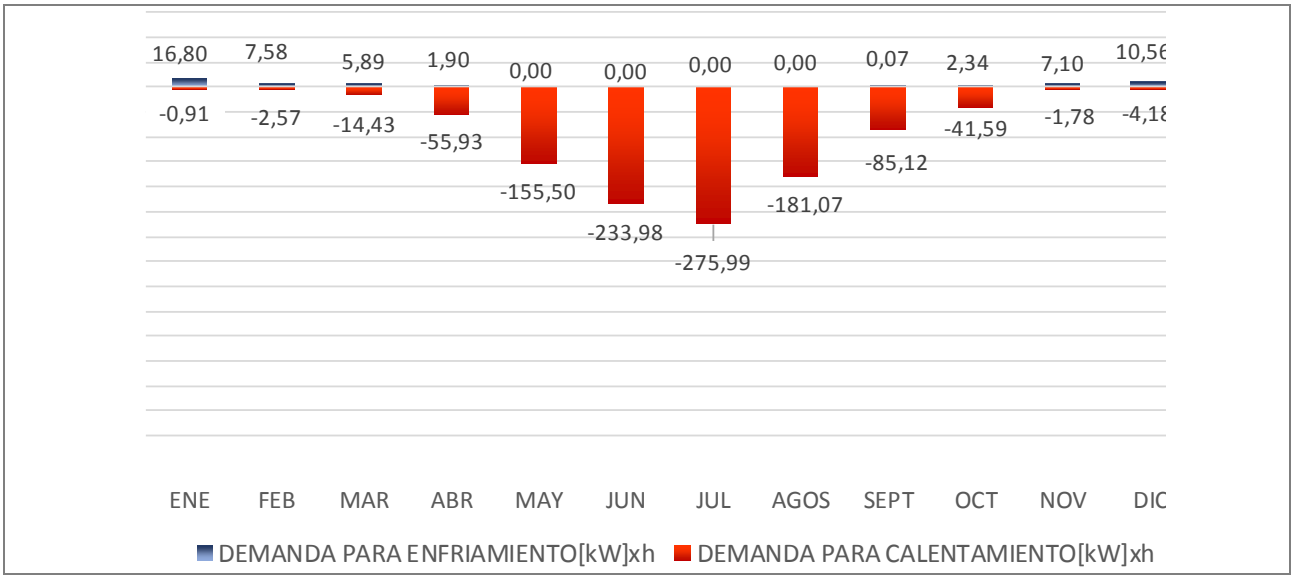
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **192** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.546** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.738** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

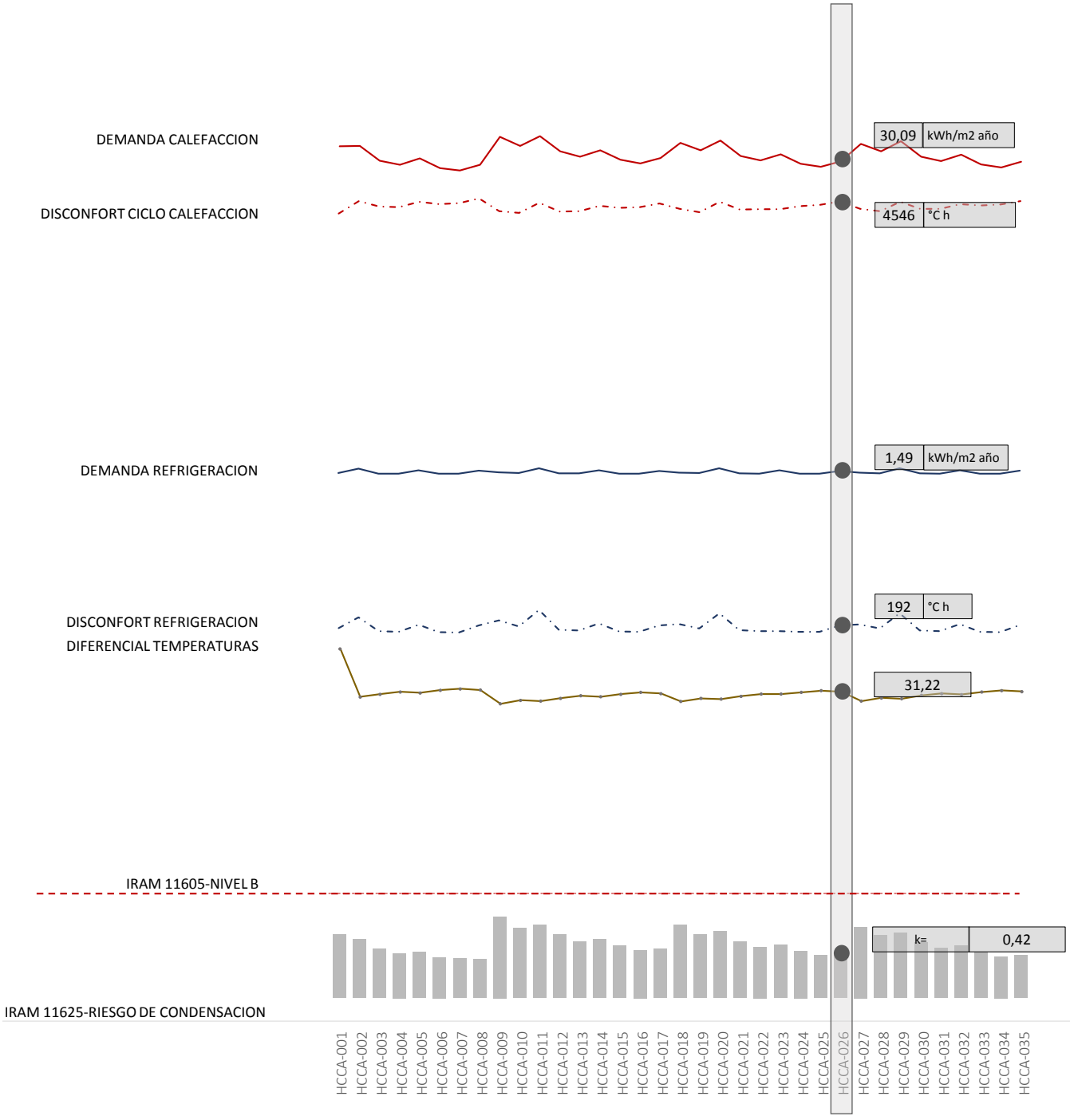



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **52,26** | kWh | 1,49 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.053,05** | kWh | 30,09 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.105,31** | kWh | **31,58** | kWh/m2/año |

| HCCA-026 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 081 | N° 088 | N° 067 | N° 099 | N° 101 | N° 081 |



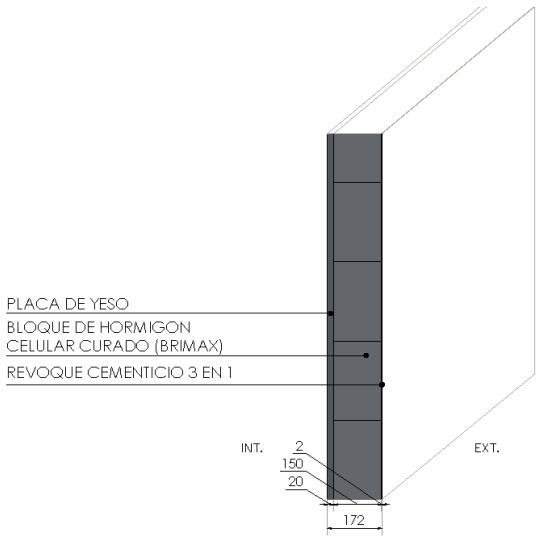

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,42 | 0% | 31,22 | 30,09 | 1,49 | 4546,00 | 192,00 |
| INC. FAMILIA | 79,51% | 0% | 100,64% | 95,94% | 123,14% | 100,89% | 107,42% |
| INC. MUNDIAL | 35,31% | 0% | 101,32% | 73,17% | 24,83% | 101,89% | 37,56% |

| HCCA-027 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (BRIMAX 500) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR

## INDICE DE TRANSMITANCIA TERMICA "K"

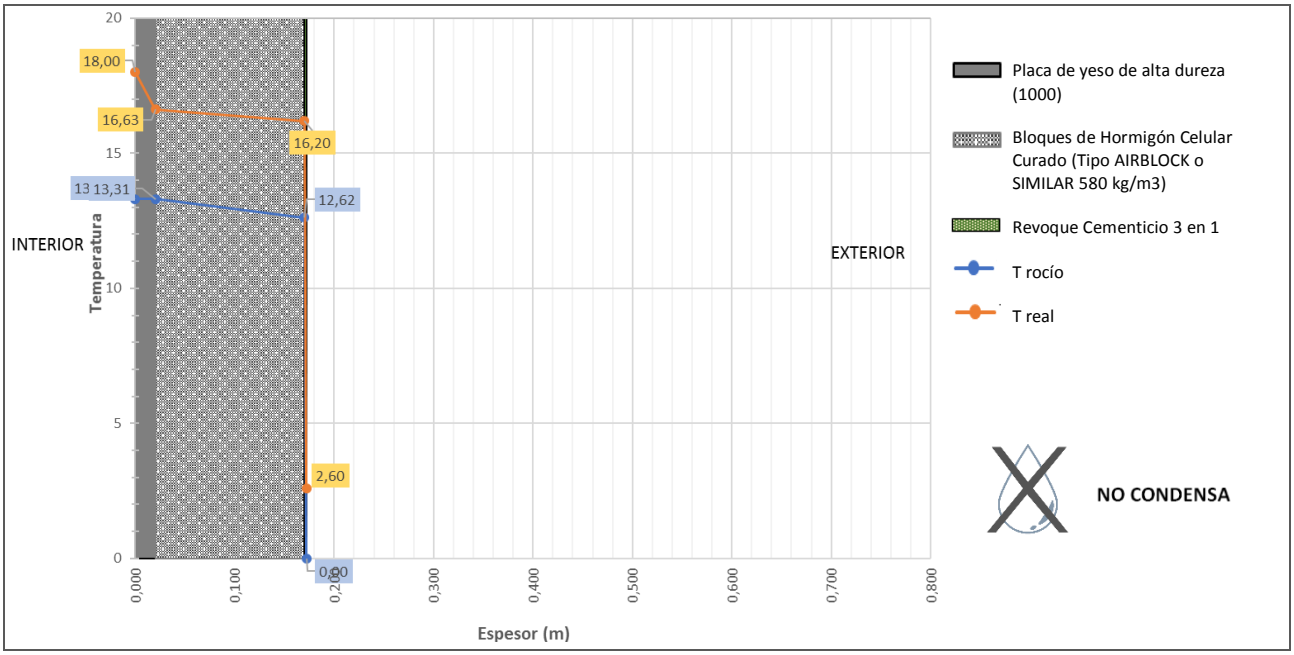
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,68 | 0,68 |
|---|---|
| **verifica verano** | **verifica invierno** |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



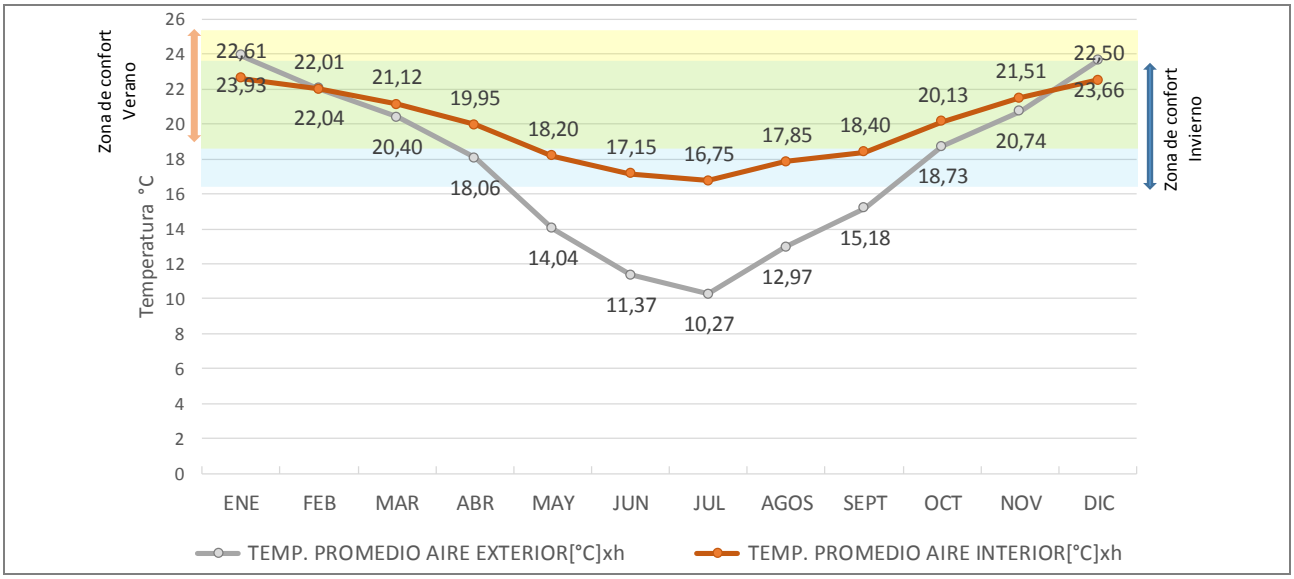

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 20,0 | Invierno 24,3 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,0** | **8,8** |
| | **Amortiguamiento:** | 0,052 | 0,038 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,2** | **6,6** |
| | **Amortiguamiento:** | 0,199 | 0,179 |

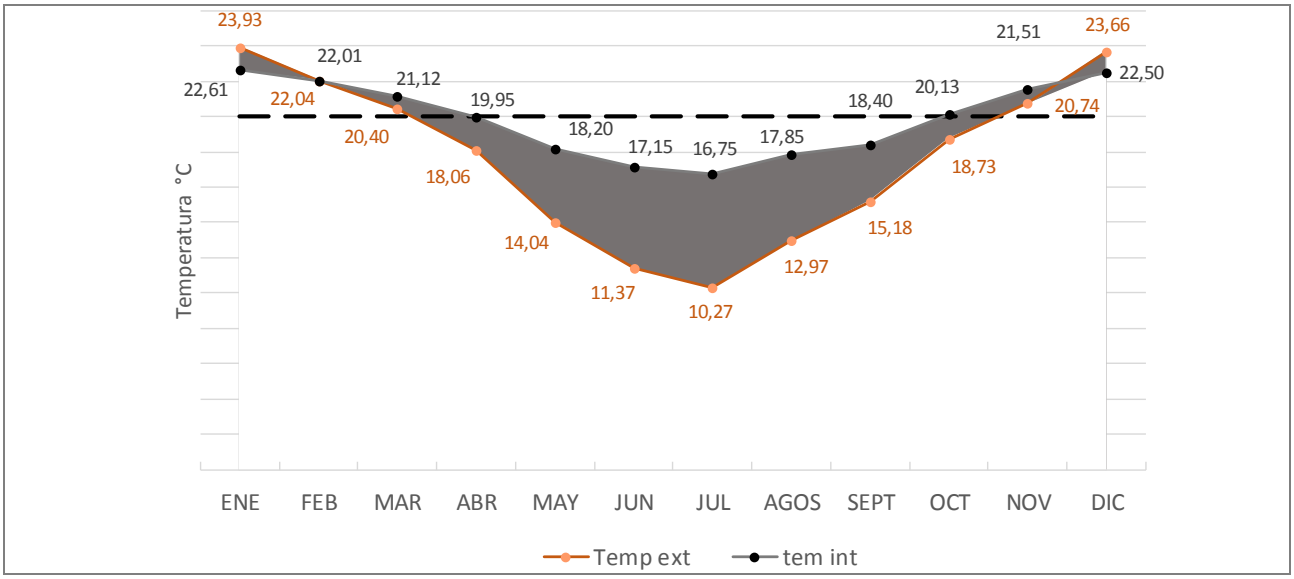
| HCCA-027 | MU | HCCA |
|---|---|---|

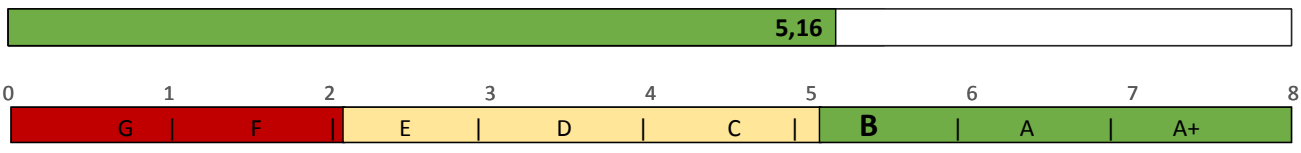
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,87** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **14,25** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



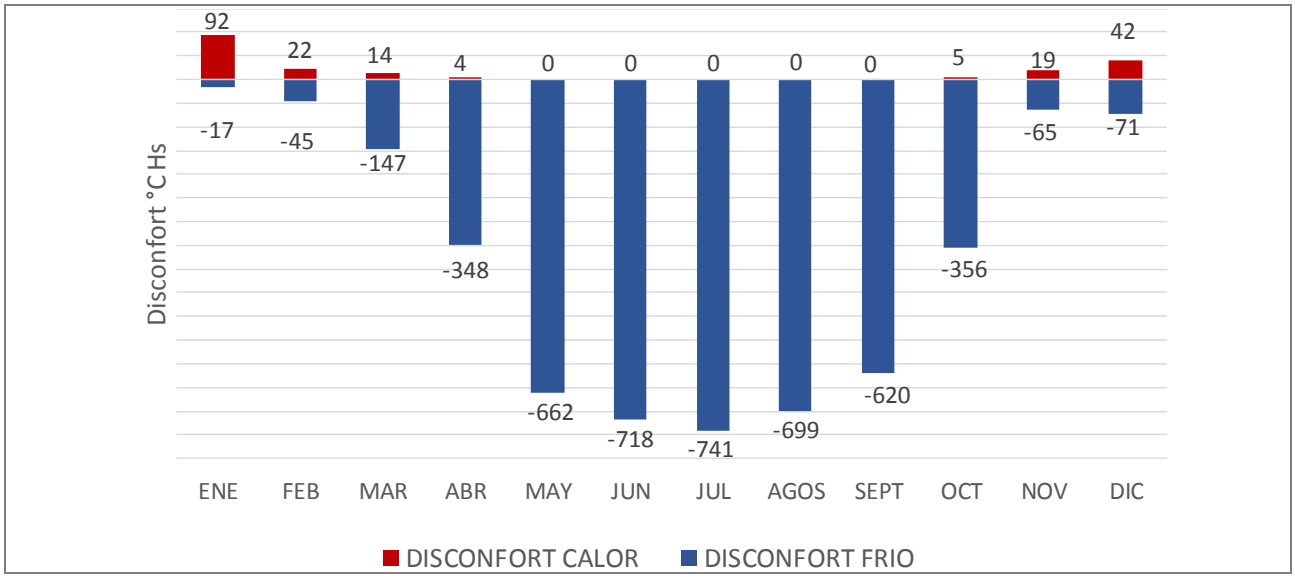




5,16 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| HCCA-027 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

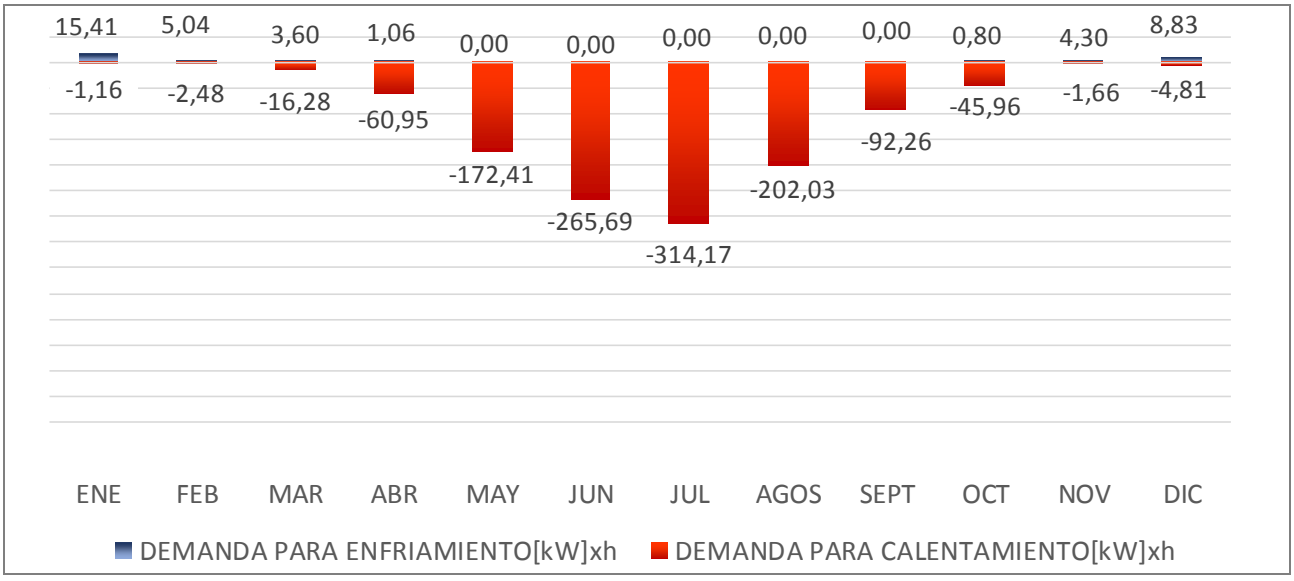
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **198** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.490** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.687** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

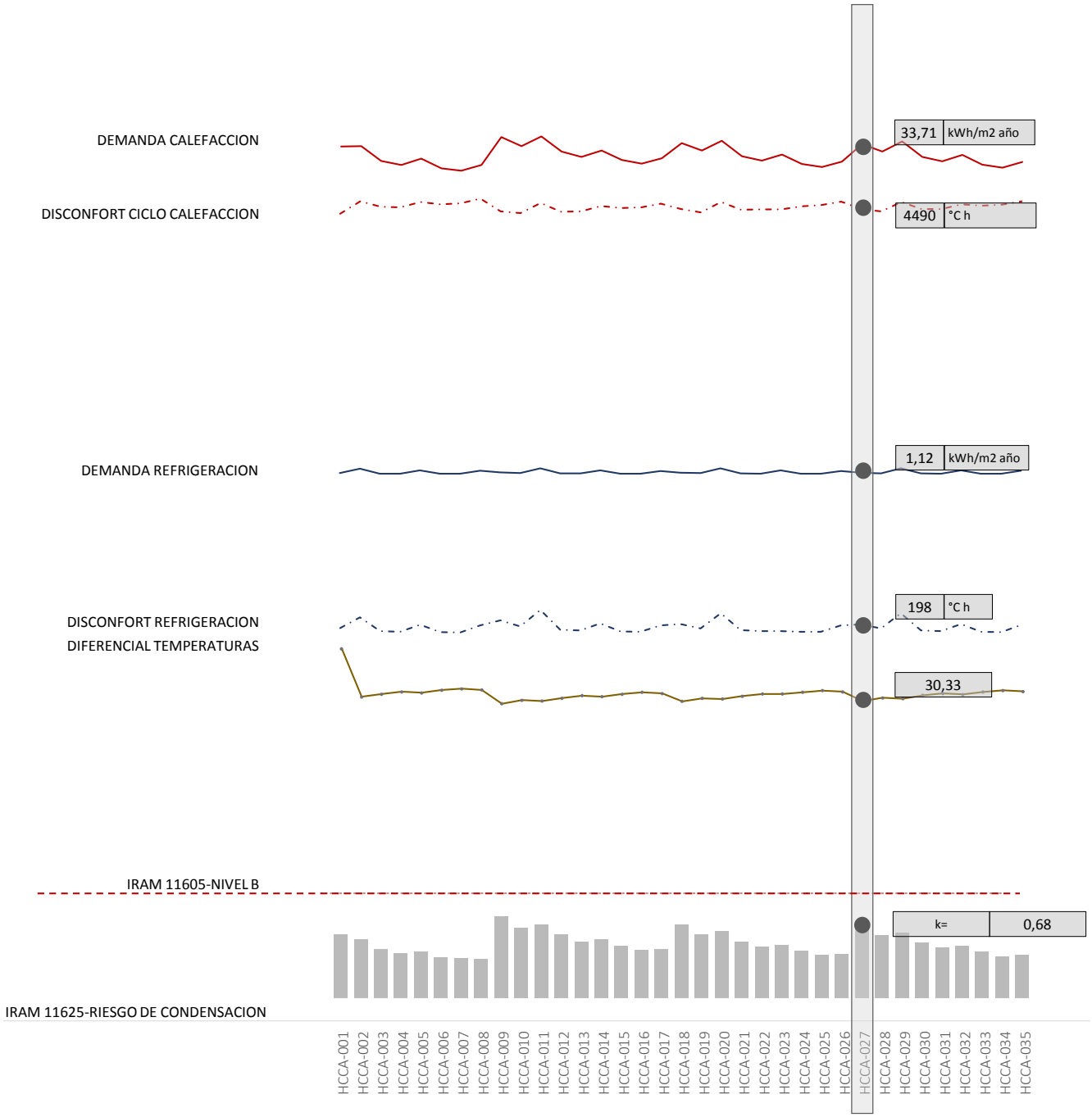



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **39,04** | kWh | 1,12 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.179,85** | kWh | 33,71 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.218,90** | kWh | **34,83** | kWh/m2/año |

| HCCA-027 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 154 | N° 157 | N° 142 | N° 043 | N° 047 | N° 088 |



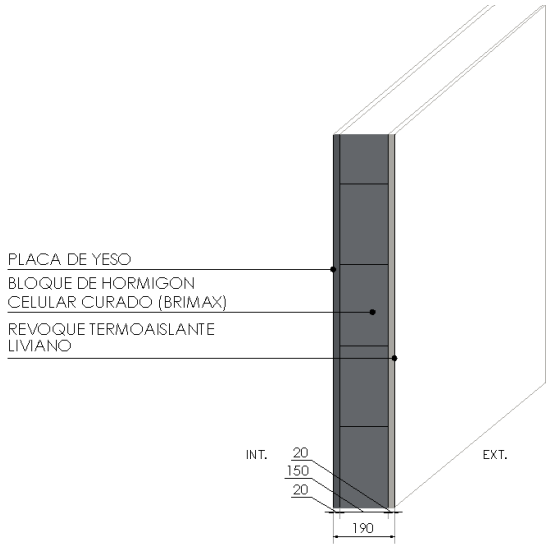

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,68 | 0% | 30,33 | 33,71 | 1,12 | 4490,00 | 198,00 |
| INC. FAMILIA | 128,73% | 0% | 97,77% | 107,48% | 92,56% | 99,64% | 110,78% |
| INC. MUNDIAL | 57,17% | 0% | 98,43% | 81,97% | 18,66% | 101,00% | 38,74% |

| HCCA-028 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (BRIMAX 500) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

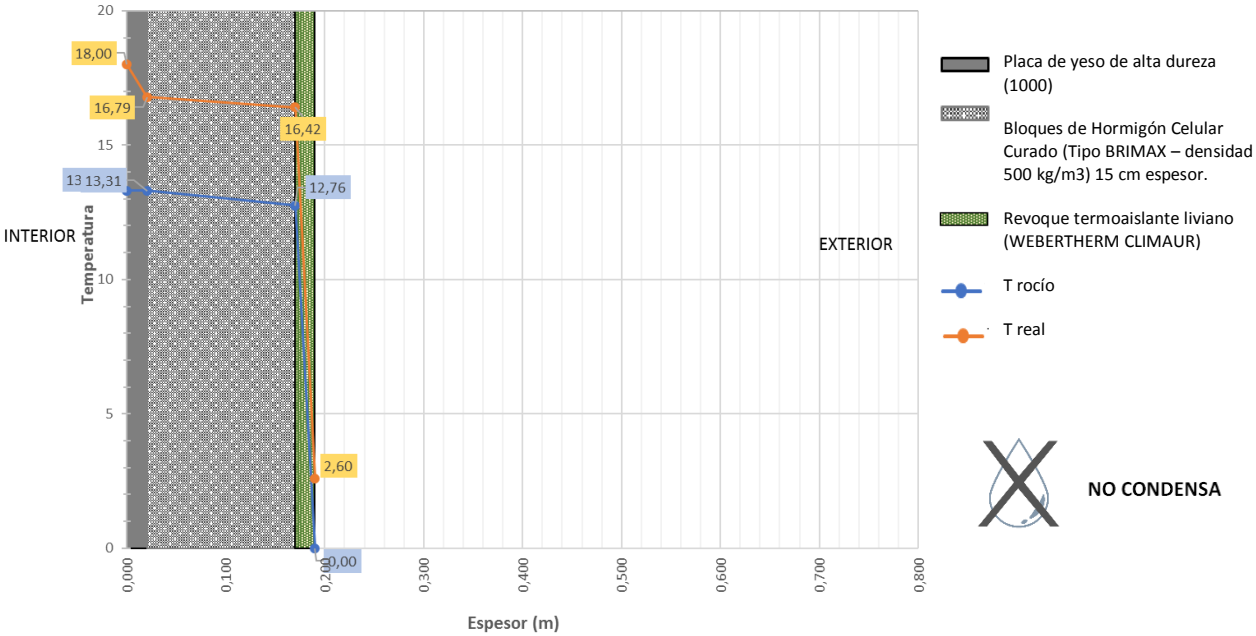
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,60 | 0,60 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



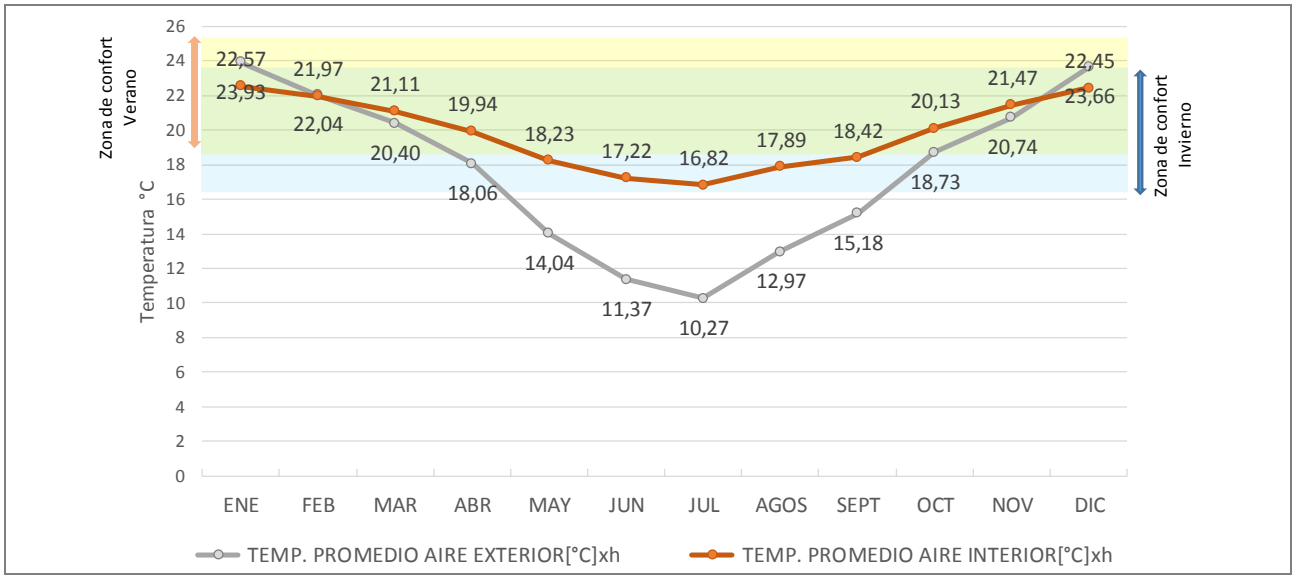

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 18,6 | Invierno 21,0 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,9** | **9,5** |
| | **Amortiguamiento:** | 0,037 | 0,030 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,6** | **7,4** |
| | **Amortiguamiento:** | 0,180 | 0,145 |

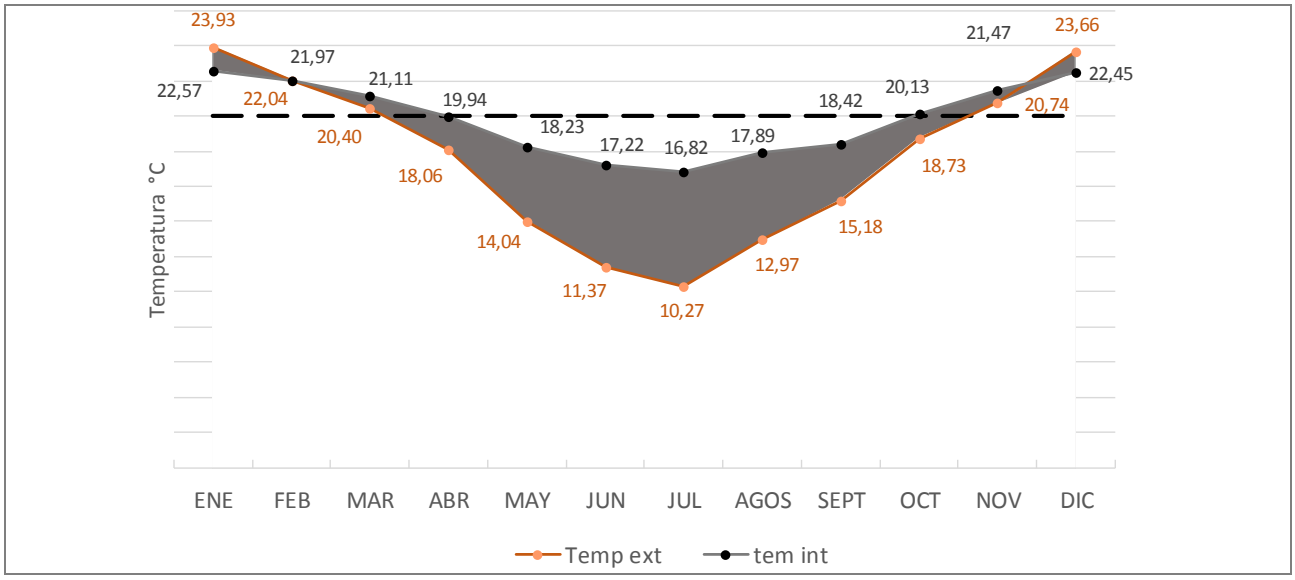
| HCCA-028 | MU | HCCA |
|---|---|---|

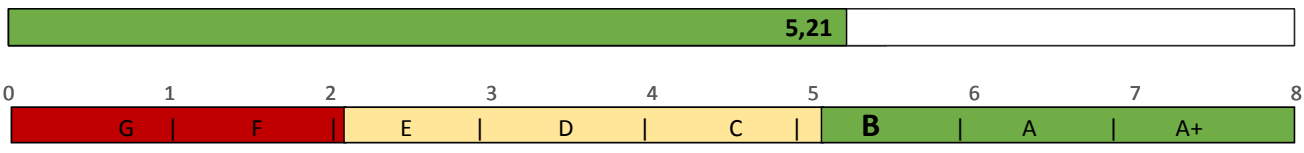
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,73** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,47** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



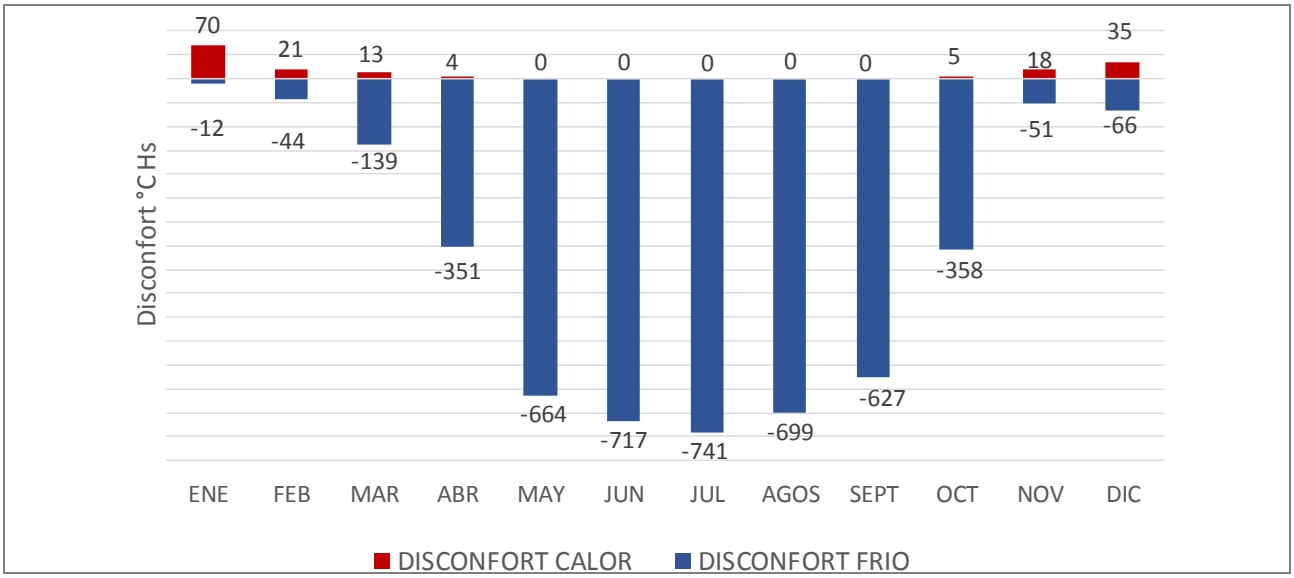




5,21 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| HCCA-028 | MU | HCCA |
|---|---|---|

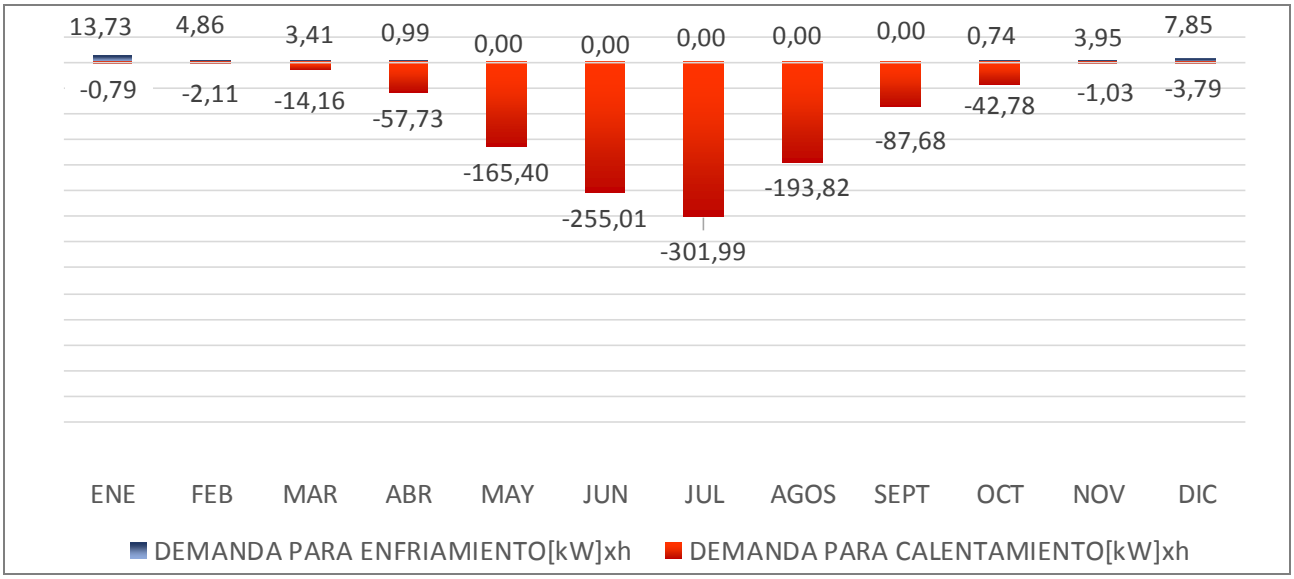
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **165** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.470** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.635** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

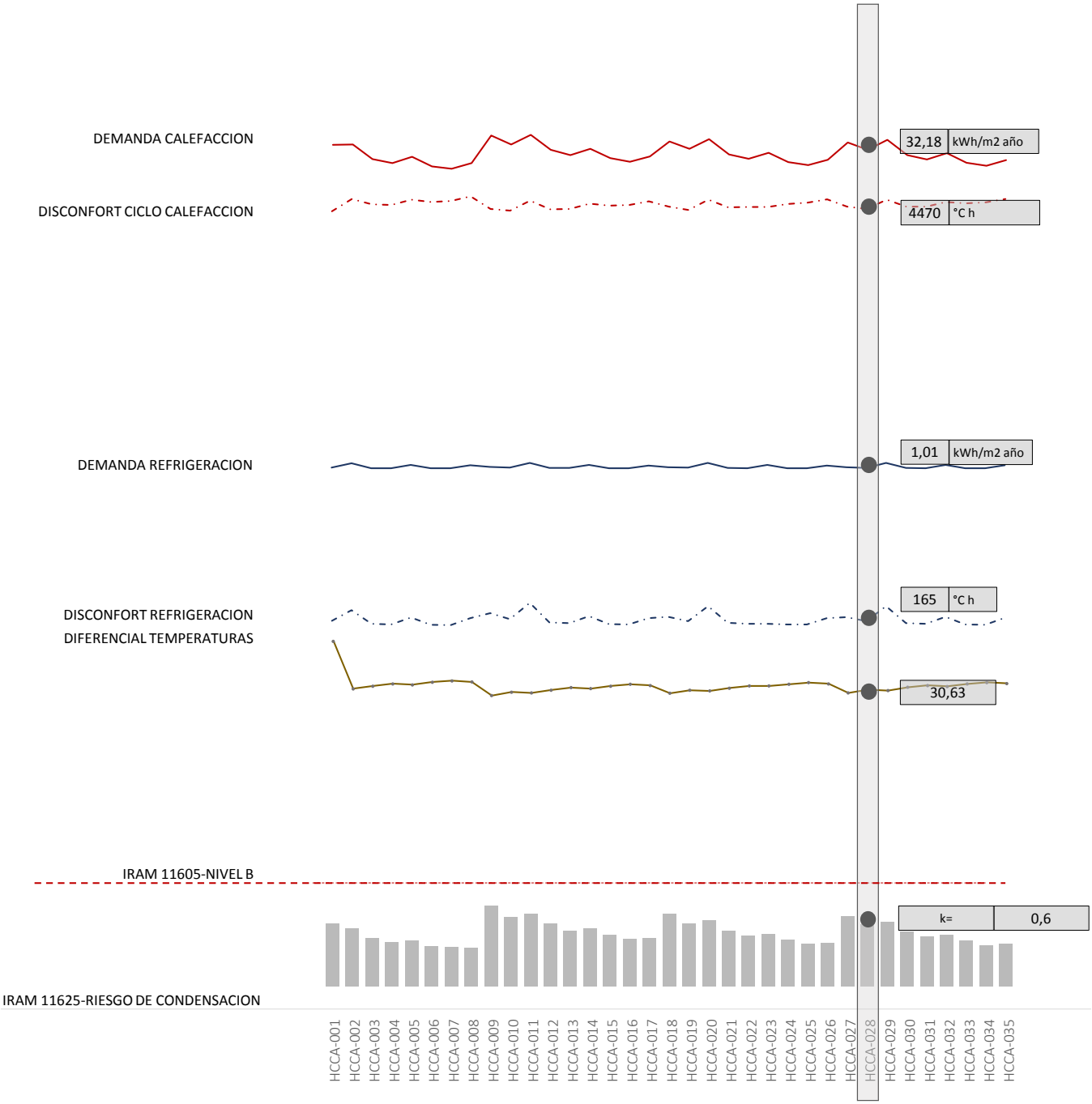



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **35,52** | kWh | 1,01 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.126,28** | kWh | 32,18 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.161,80** | kWh | **33,19** | kWh/m2/año |

| HCCA-028 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 141 | N° 144 | N° 116 | N° 027 | N° 027 | N° 035 |



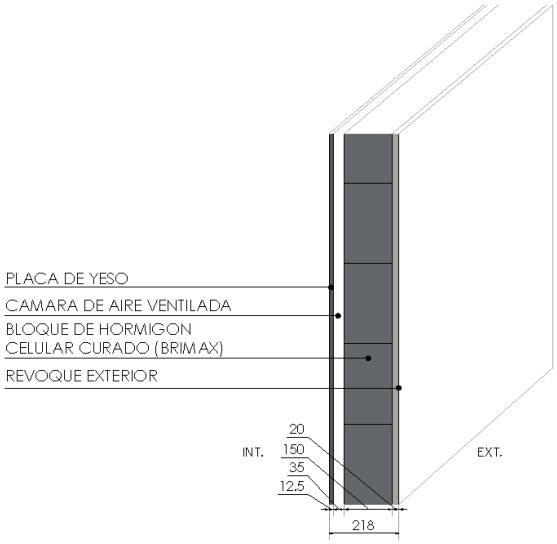

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,60 | 0% | 30,63 | 32,18 | 1,01 | 4470,00 | 165,00 |
| INC. FAMILIA | 113,59% | 0% | 98,74% | 102,61% | 83,47% | 99,20% | 92,32% |
| INC. MUNDIAL | 50,45% | 0% | 99,40% | 78,25% | 16,83% | 100,19% | 32,28% |

| HCCA-029 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 15 CM (BRIMAX 500) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

## INDICE DE TRANSMITANCIA TERMICA "K"

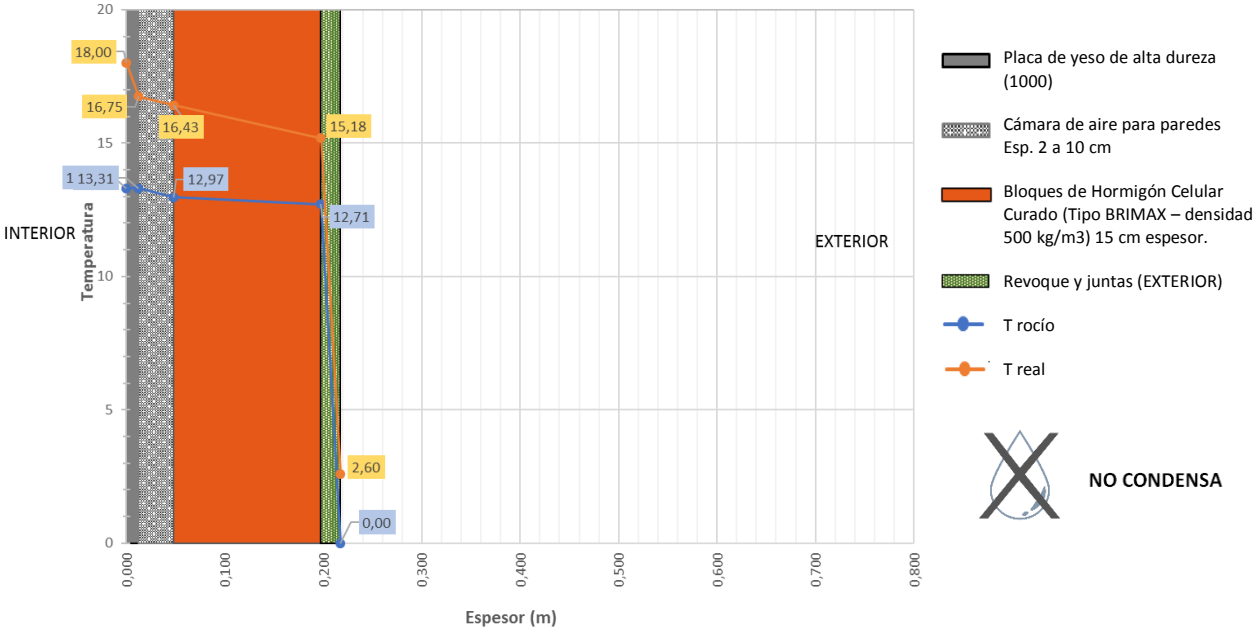
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,62 | 0,62 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



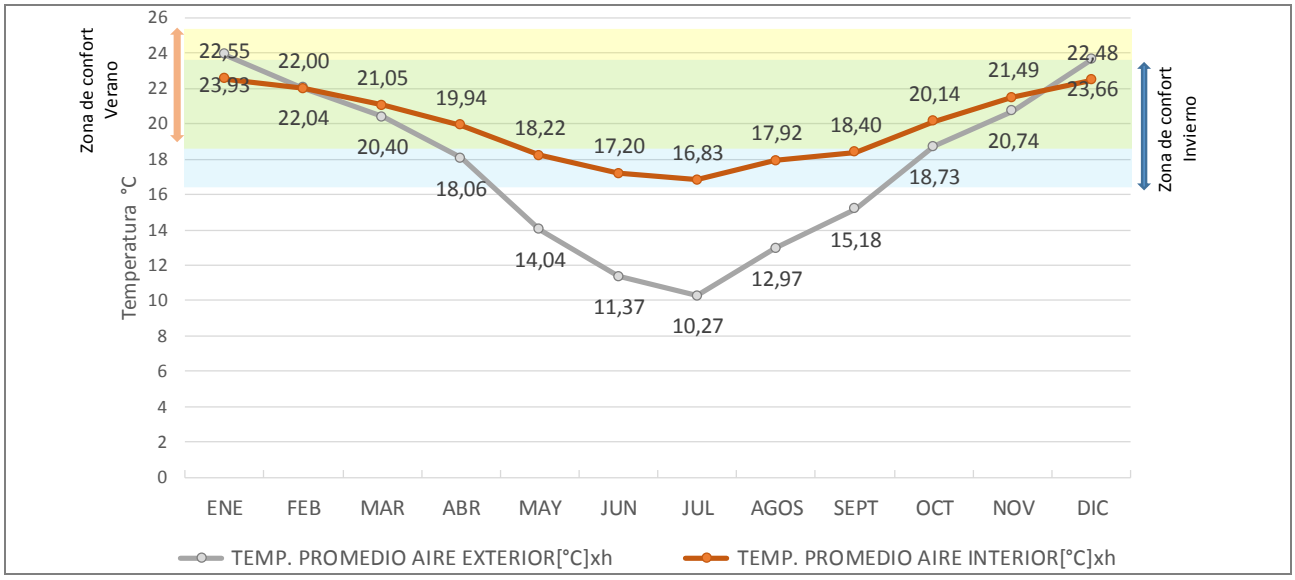

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 23,0 | 19,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,5** | **8,8** |
| | **Amortiguamiento:** | 0,030 | 0,039 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,9** | **6,2** |
| | **Amortiguamiento:** | 0,128 | 0,198 |

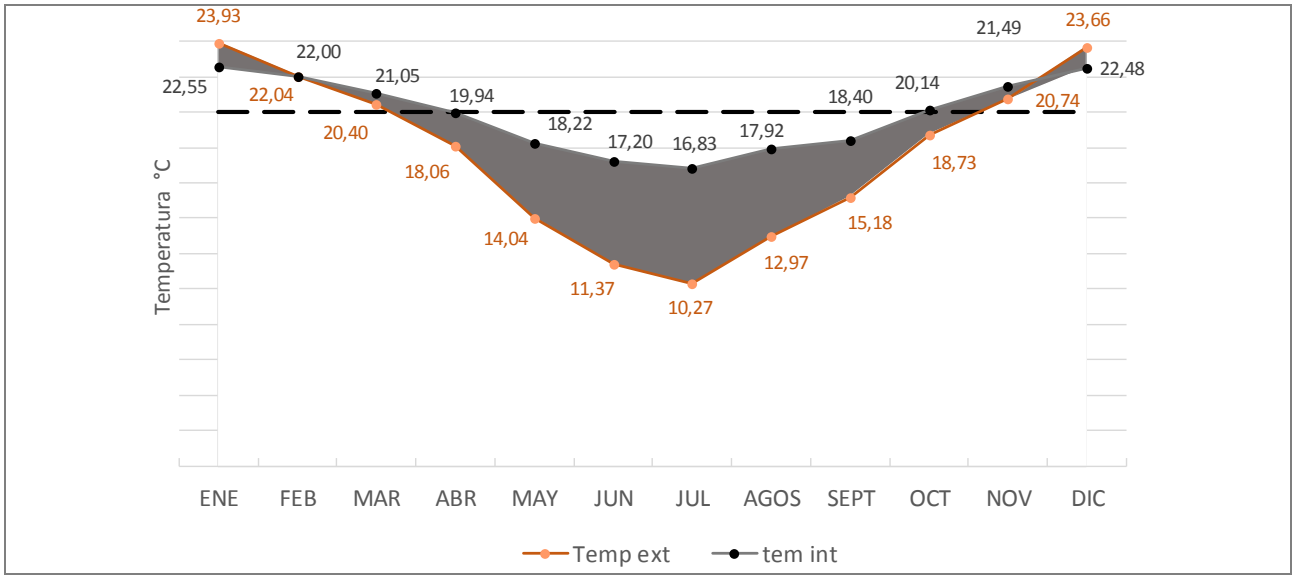
| HCCA-029 | MU | HCCA |
|---|---|---|

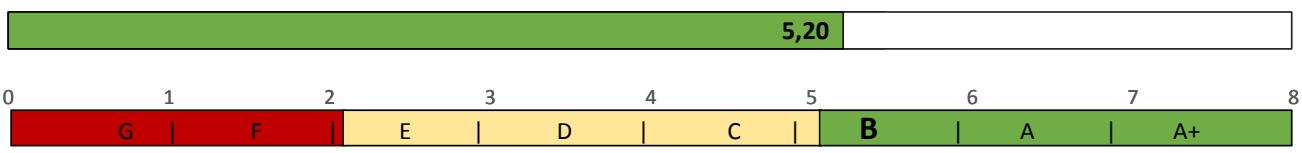
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,46** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **13,86** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



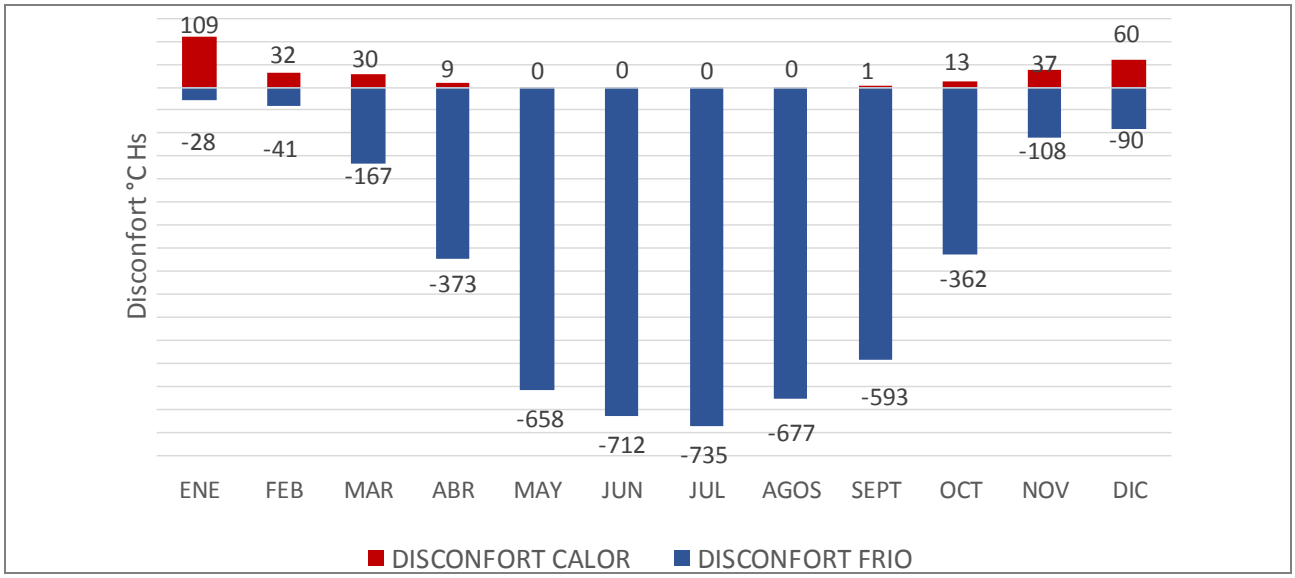




5,20 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| HCCA-029 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

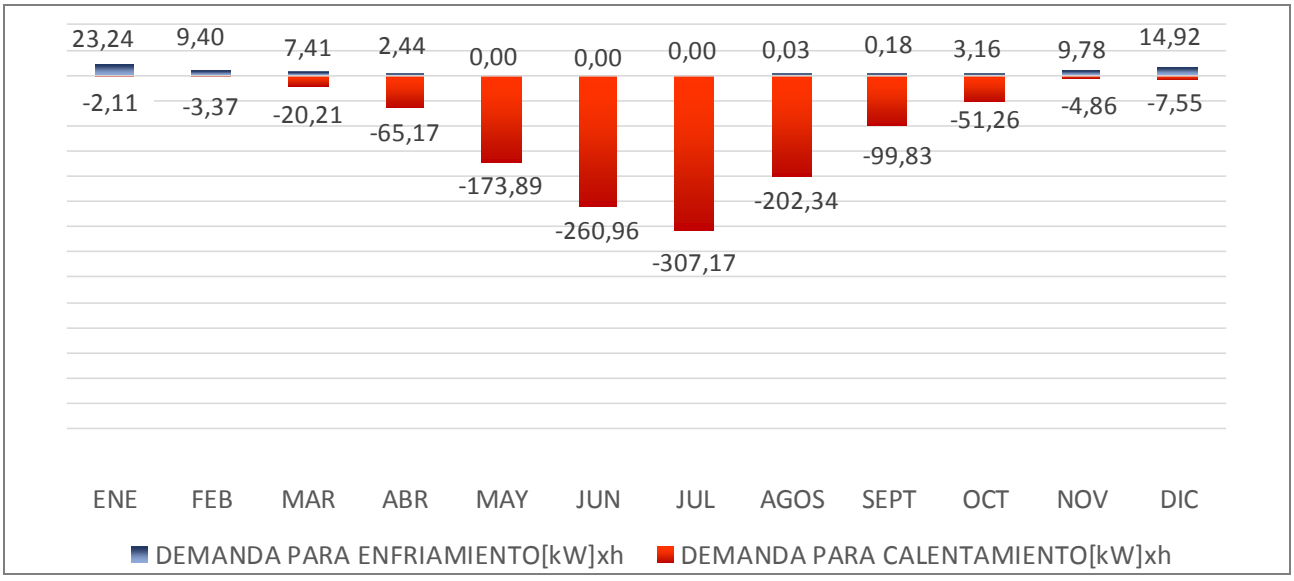
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **291** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.544** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.835** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

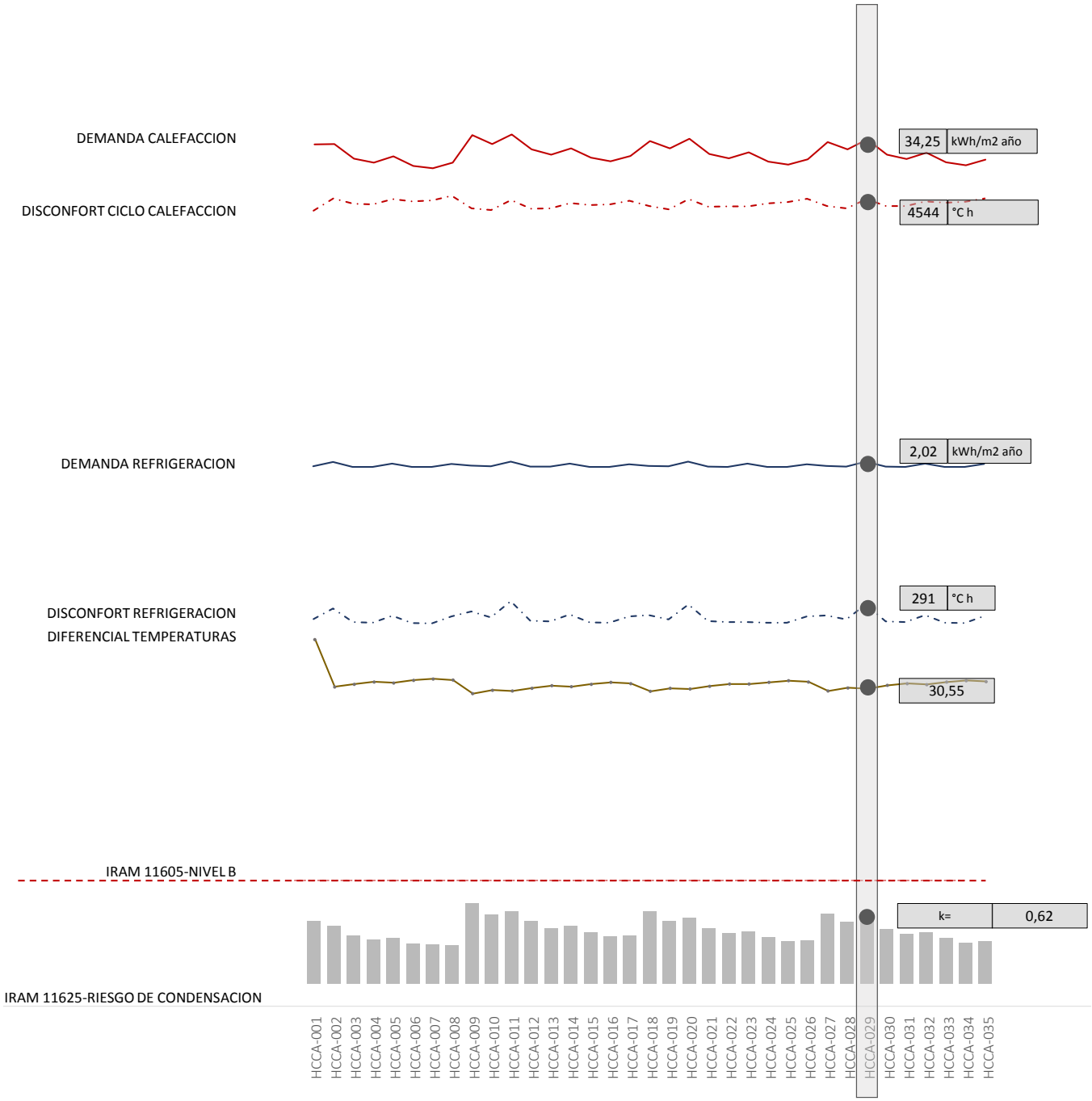



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **70,57** | kWh | 2,02 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.198,71** | kWh | 34,25 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.269,28** | kWh | **36,27** | kWh/m2/año |

| HCCA-029 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 148 | N° 148 | N° 145 | N° 148 | N° 098 | N° 142 |



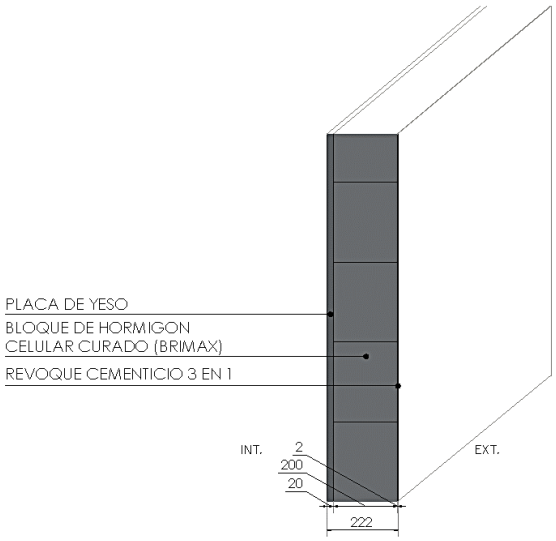

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,62 | 0% | 30,55 | 34,25 | 2,02 | 4544,00 | 291,00 |
| INC. FAMILIA | 117,37% | 0% | 98,48% | 109,21% | 166,94% | 100,84% | 162,81% |
| INC. MUNDIAL | 52,13% | 0% | 99,14% | 83,28% | 33,66% | 101,85% | 56,93% |

| HCCA-030 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (BRIMAX 500) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

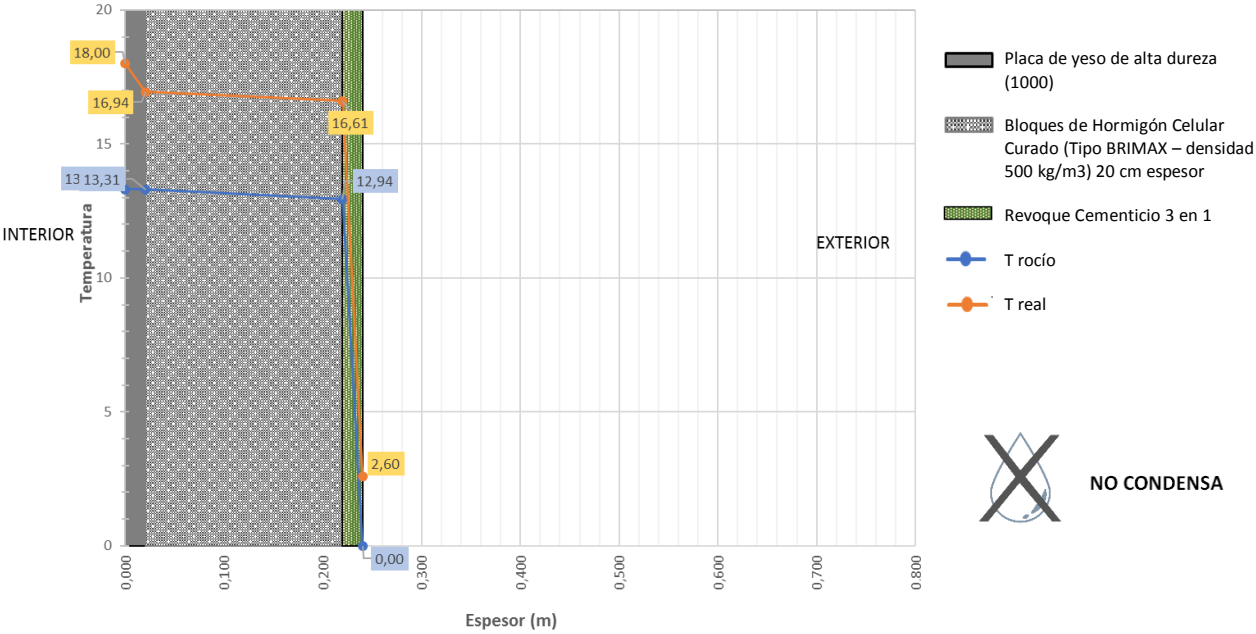
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,53 | 0,53 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



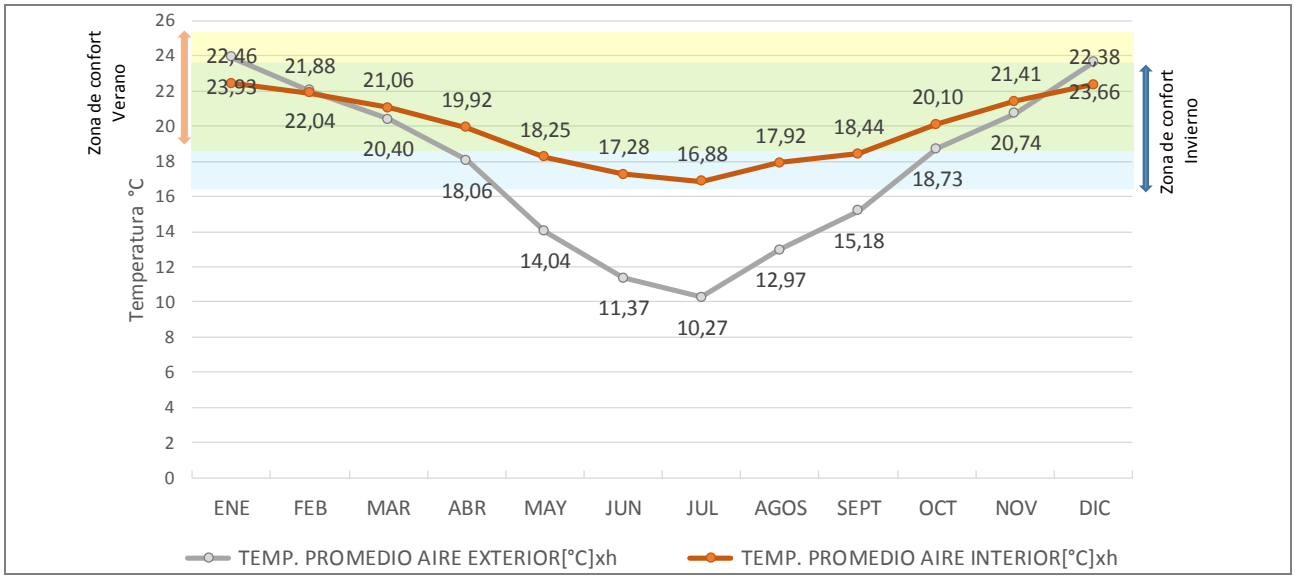

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 23,0 | 23,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,4** | **11,4** |
| | **Amortiguamiento:** | 0,015 | 0,014 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,9** | **8,4** |
| | **Amortiguamiento:** | 0,097 | 0,110 |

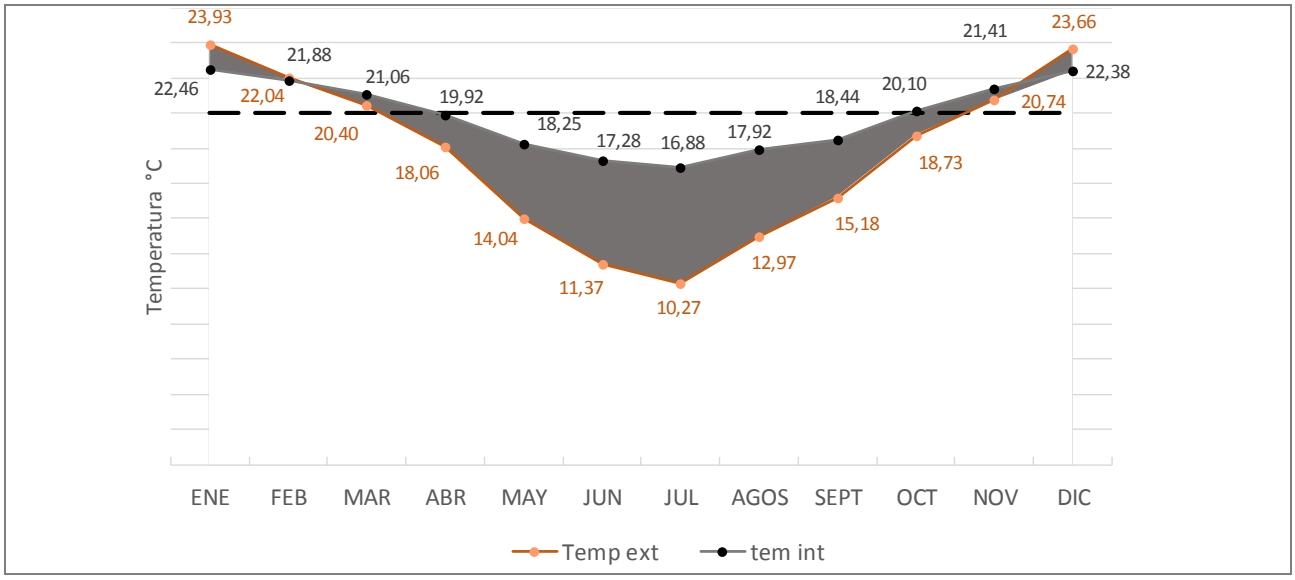
| HCCA-030 | MU | HCCA |
|---|---|---|

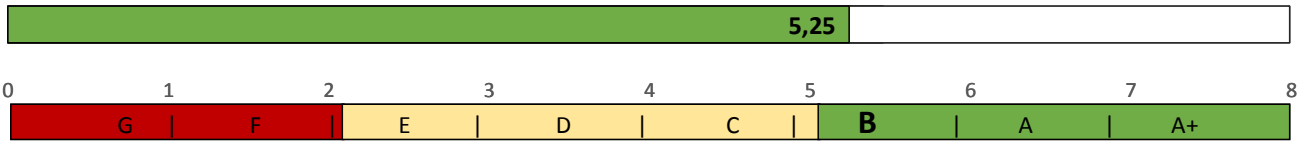
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,63** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,64** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



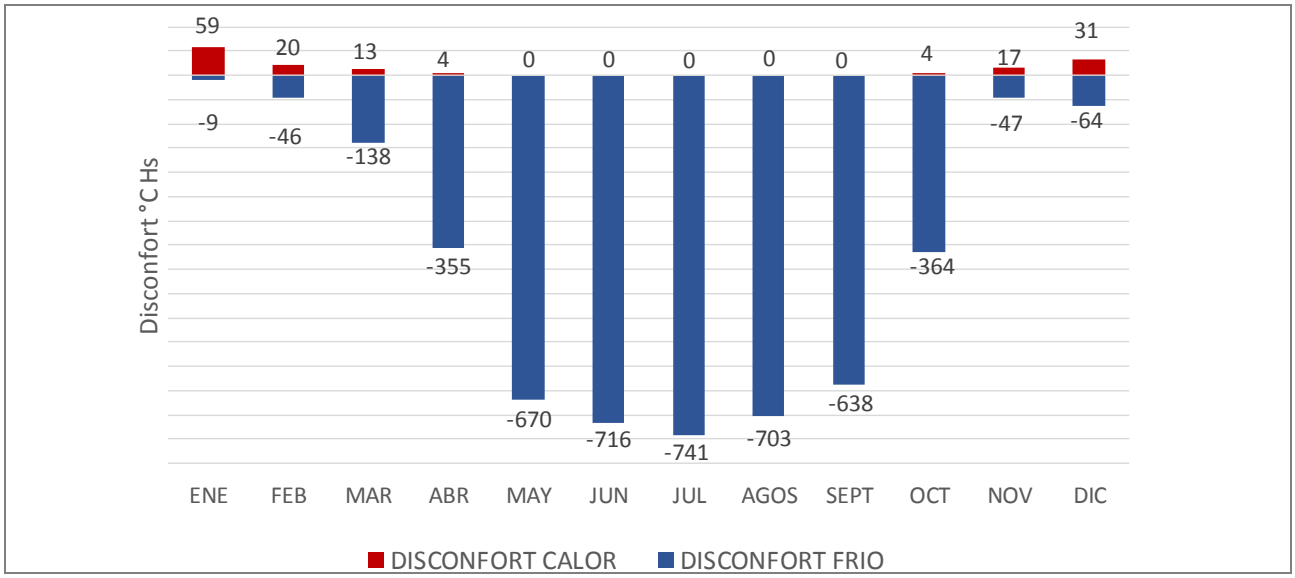




5,25 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-030 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

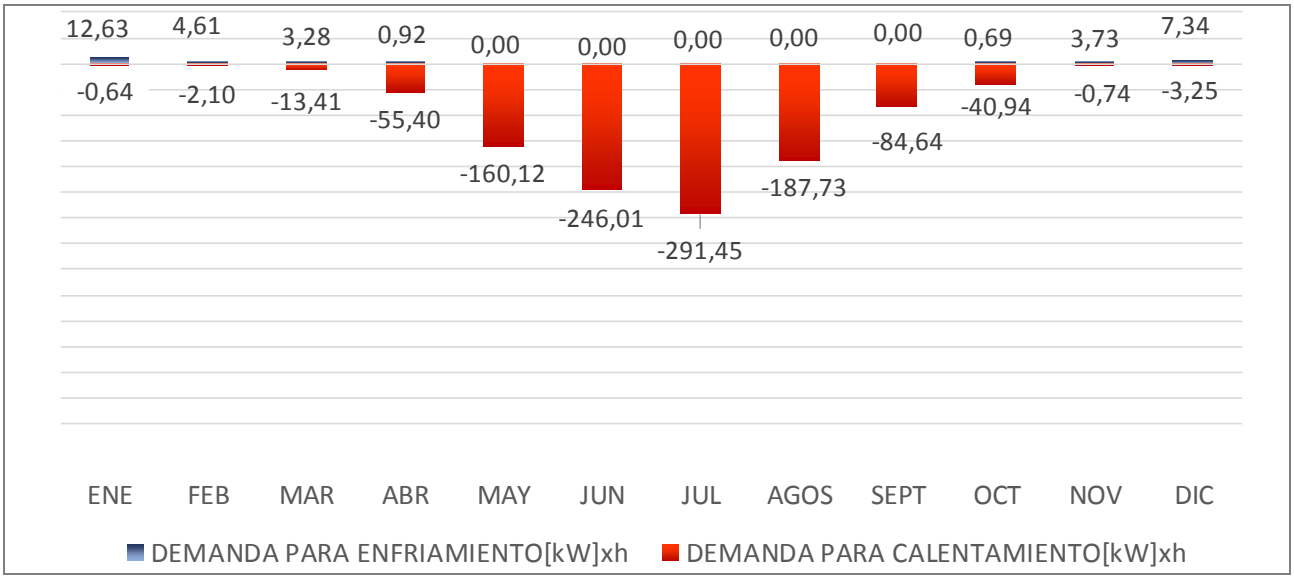
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **149** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.490** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.639** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

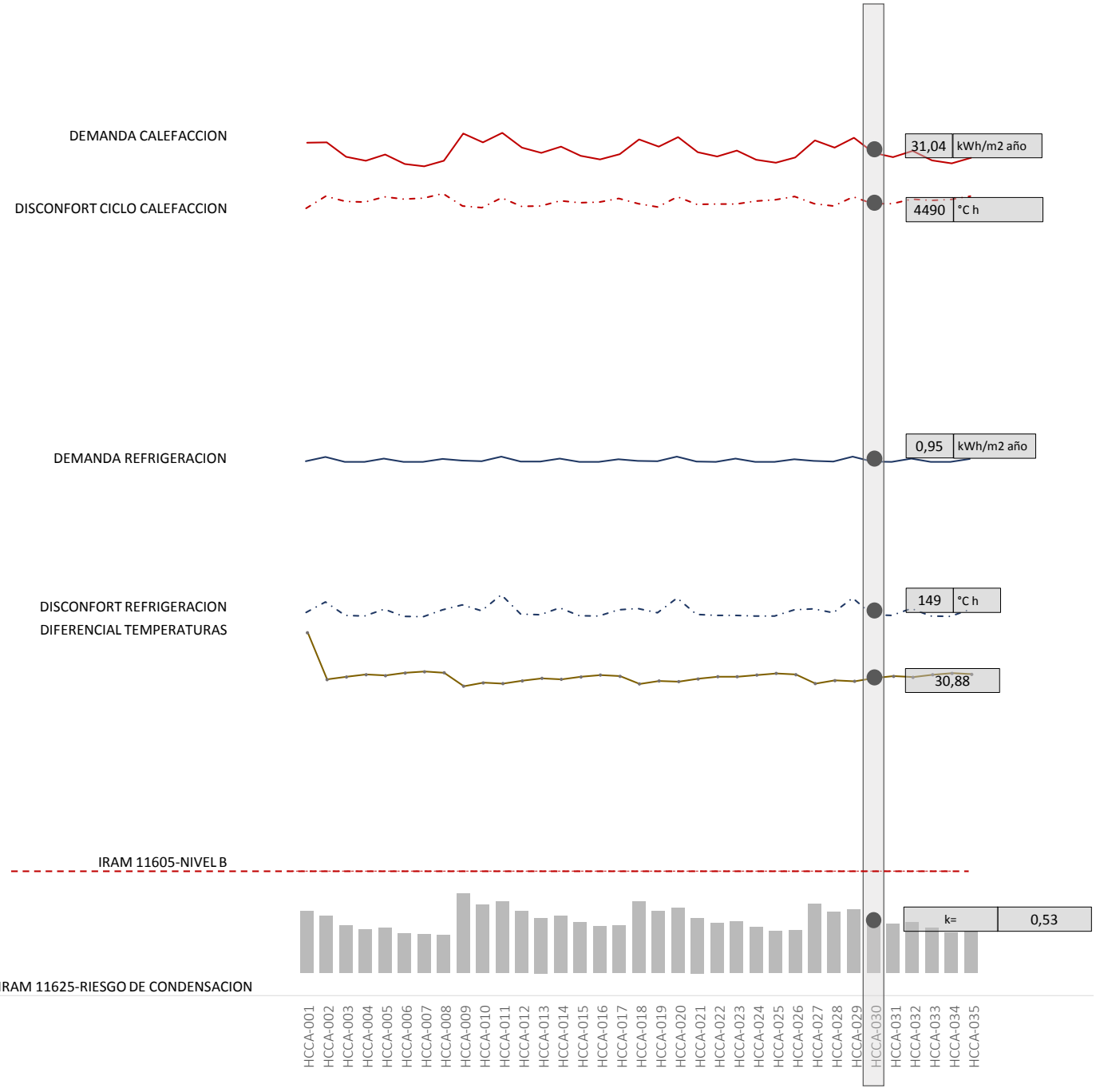



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **33,21** | kWh | 0,95 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.086,43** | kWh | 31,04 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.119,63** | kWh | **31,99** | kWh/m2/año |

| HCCA-030 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 130 | N° 126 | N° 098 | N° 022 | N° 048 | N° 022 |



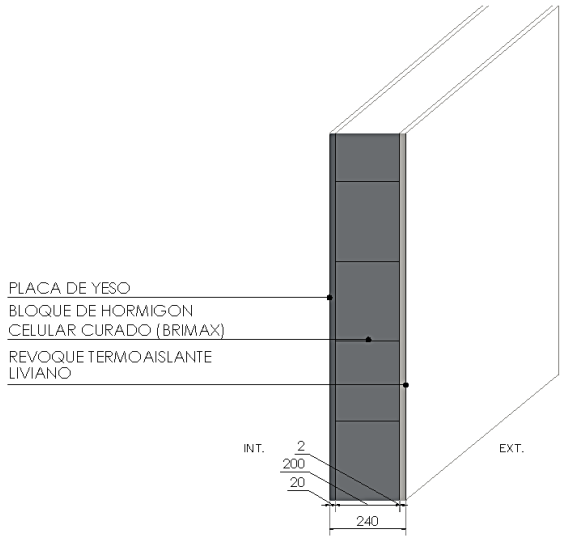

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,53 | 0% | 30,88 | 31,04 | 0,95 | 4490,00 | 149,00 |
| INC. FAMILIA | 100,33% | 0% | 99,54% | 98,97% | 78,51% | 99,64% | 83,36% |
| INC. MUNDIAL | 44,56% | 0% | 100,21% | 75,48% | 15,83% | 100,64% | 29,15% |

| HCCA-031 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (BRIMAX 500) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR

## INDICE DE TRANSMITANCIA TERMICA "K"

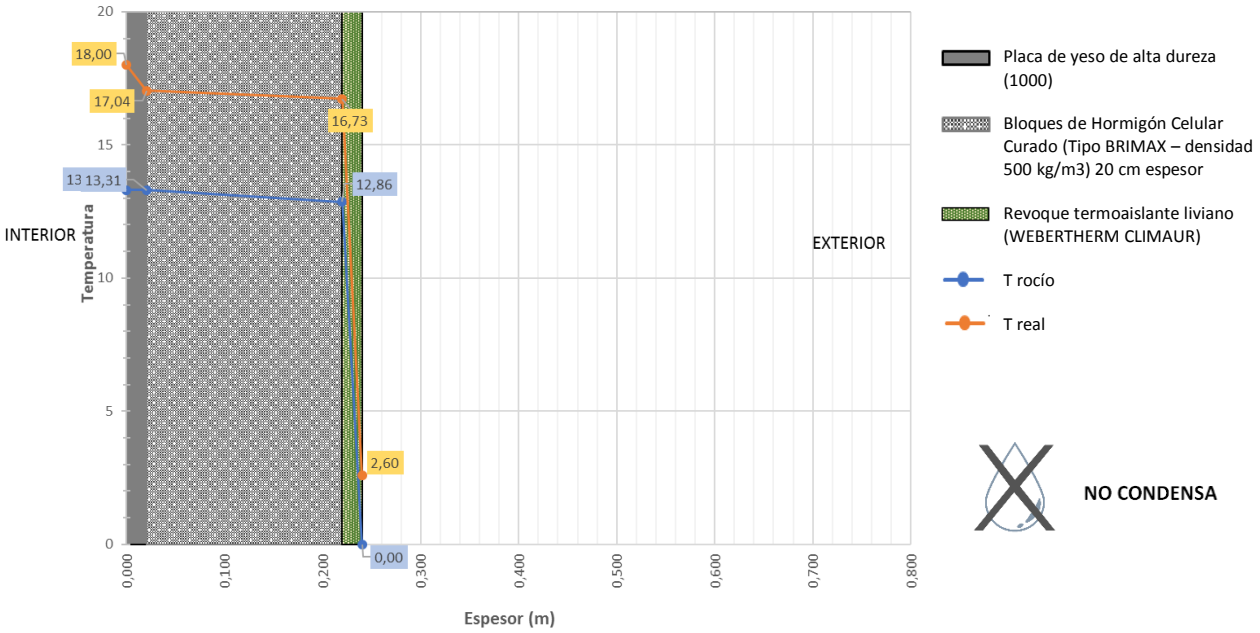
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,48 | 0,48 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



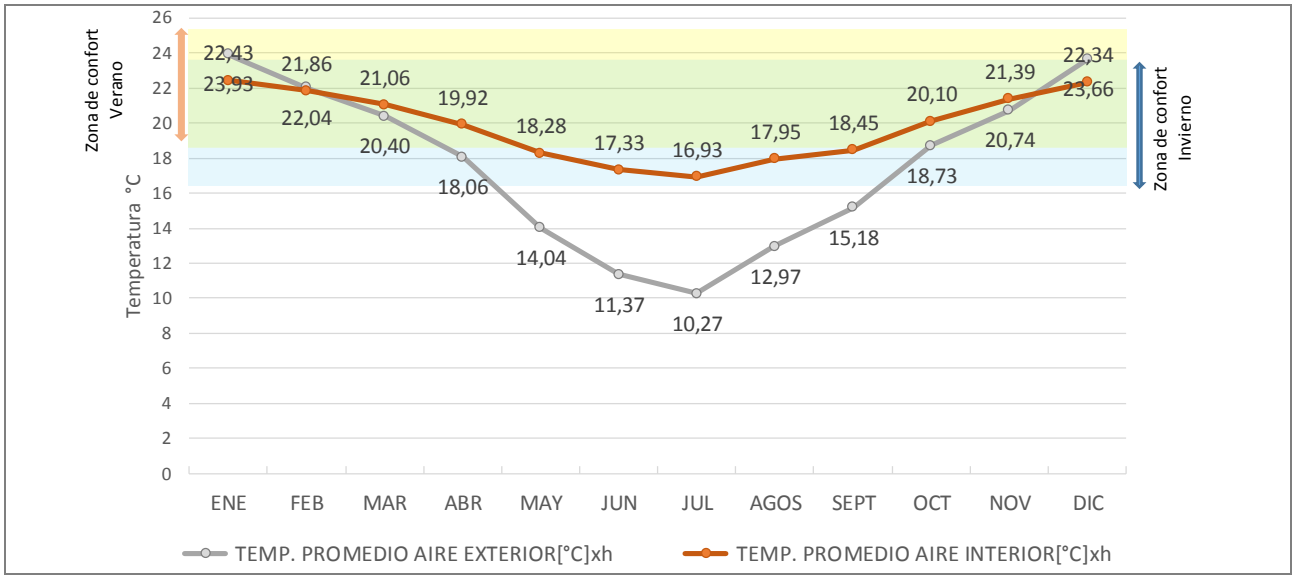

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 18,9 | 20,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,5** | **12,0** |
| | **Amortiguamiento:** | 0,014 | 0,012 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,3** | **9,2** |
| | **Amortiguamiento:** | 0,115 | 0,091 |

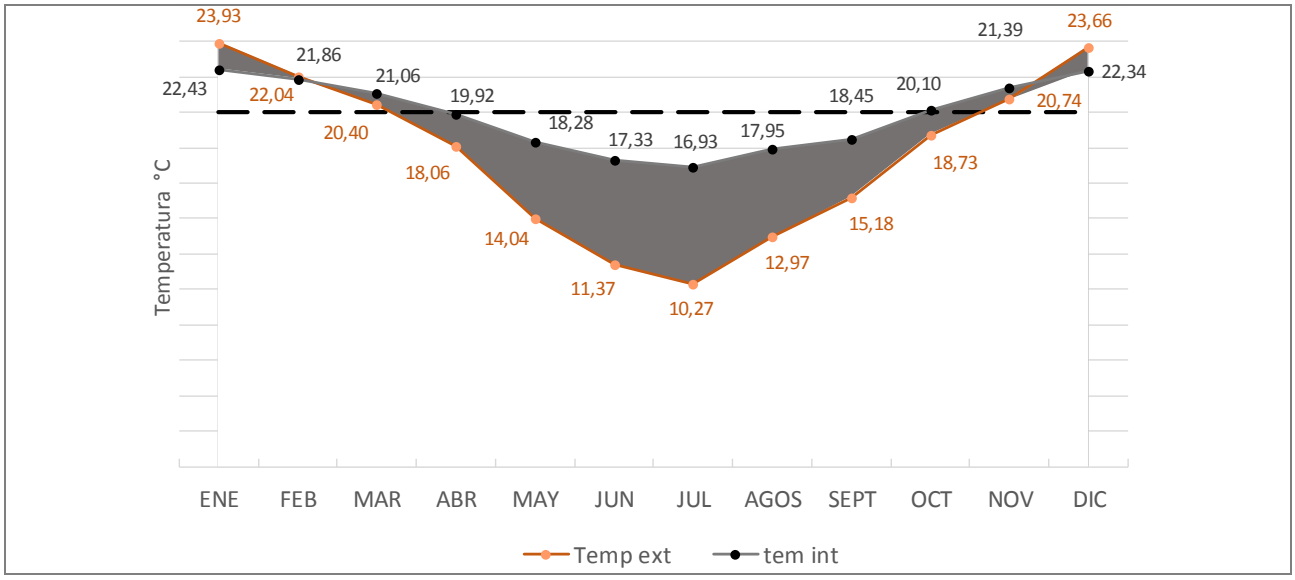
| HCCA-031 | MU | HCCA |
|---|---|---|

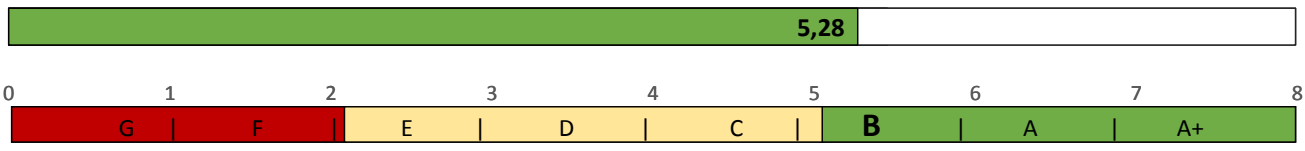
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,59** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,75** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



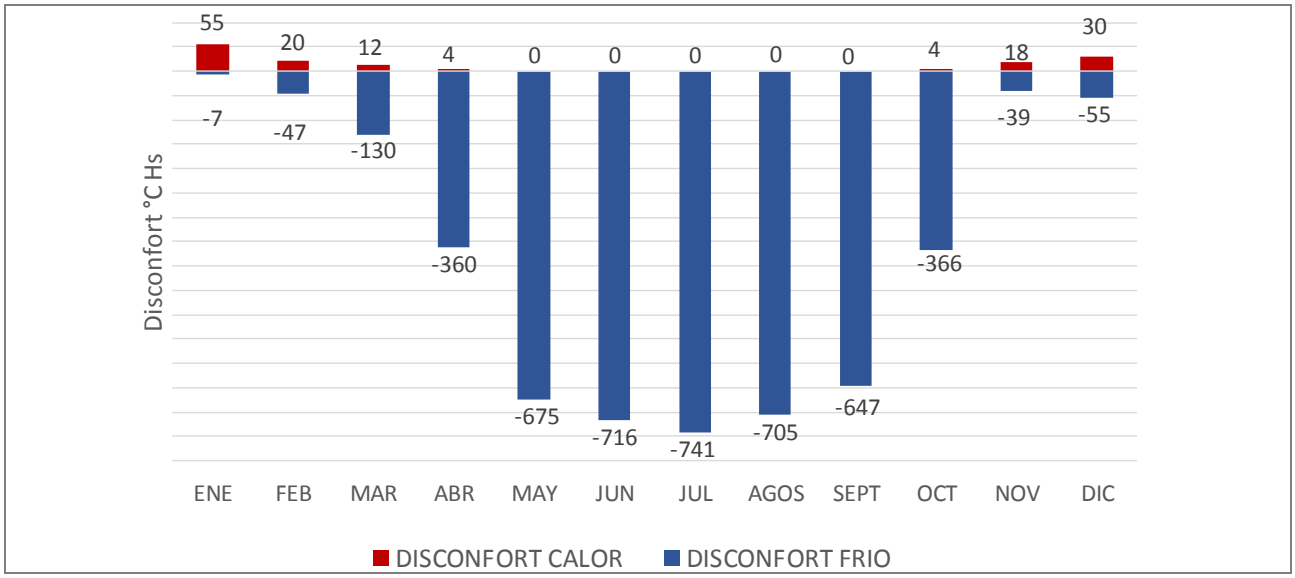




5,28 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-031 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

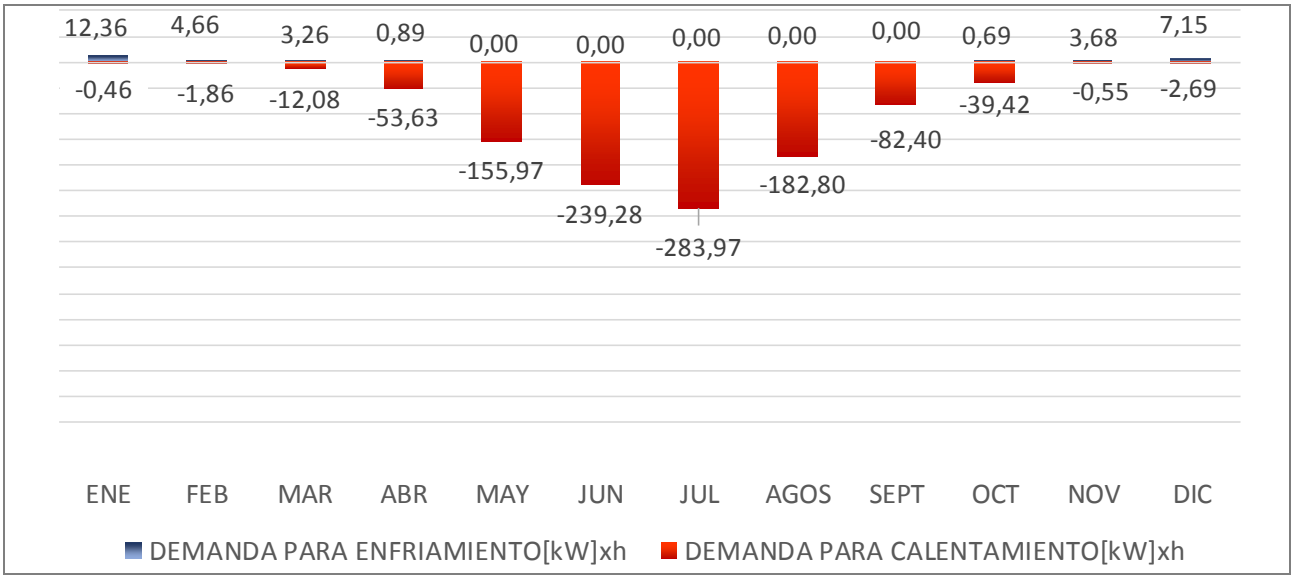
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **144** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.490** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.633** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

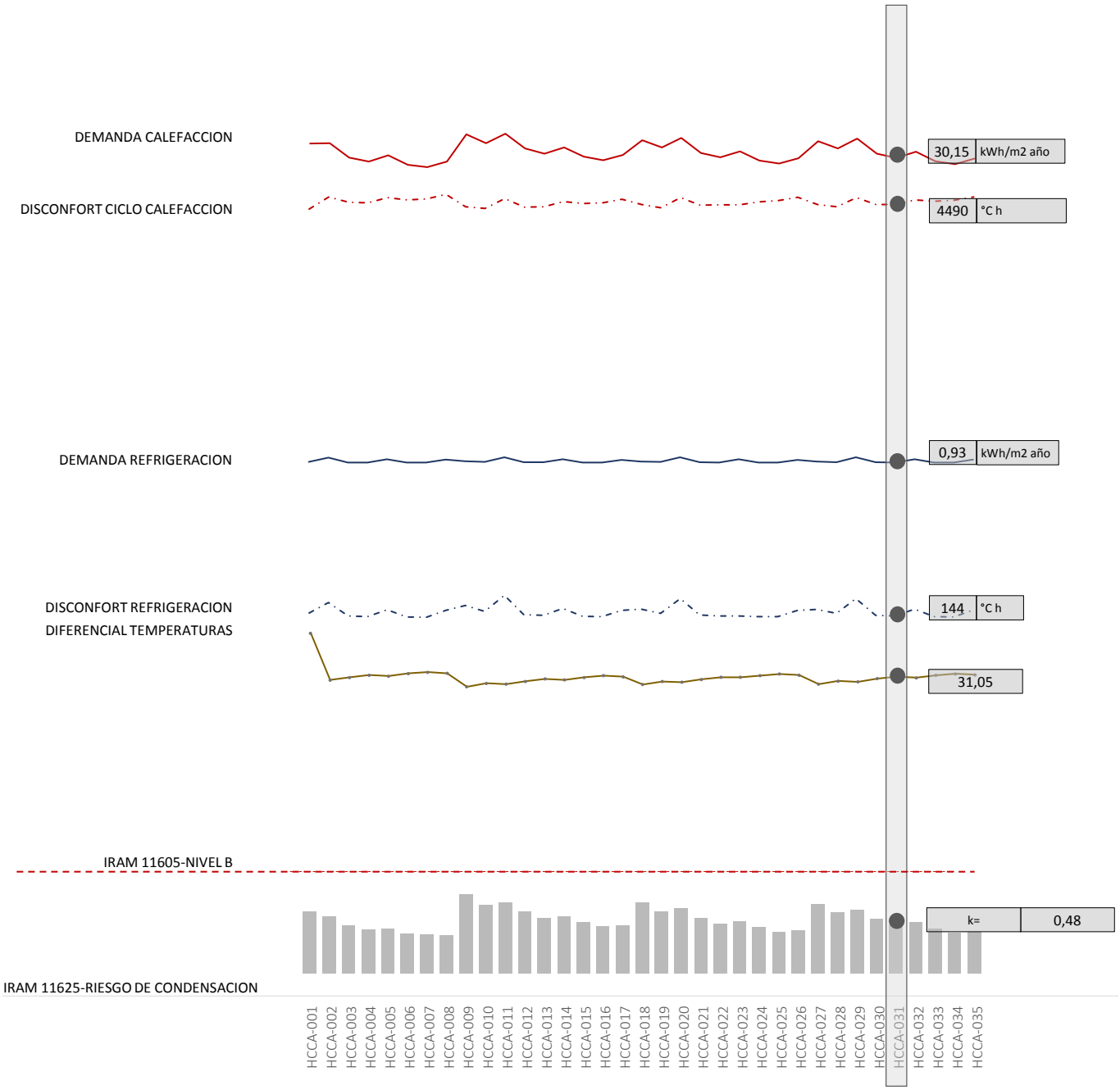



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **32,69** | kWh | 0,93 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.055,12** | kWh | 30,15 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.087,81** | kWh | **31,08** | kWh/m2/año |

| HCCA-031 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 114 | N° 104 | N° 070 | N° 018 | N° 049 | N° 018 |



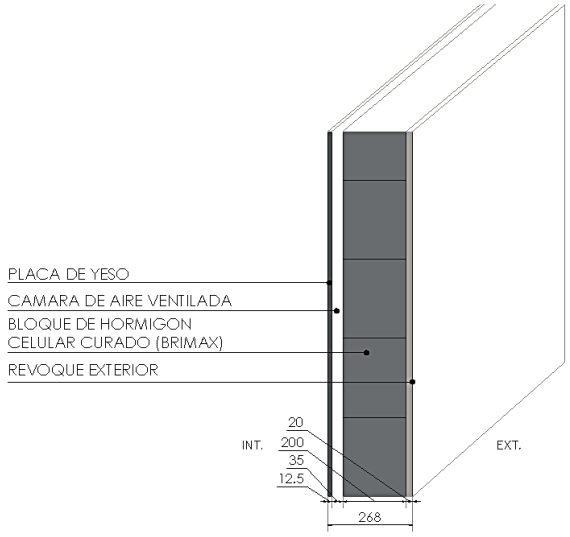

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,48 | 0% | 31,05 | 30,15 | 0,93 | 4490,00 | 144,00 |
| INC. FAMILIA | 90,87% | 0% | 100,09% | 96,13% | 76,86% | 99,64% | 80,57% |
| INC. MUNDIAL | 40,36% | 0% | 100,77% | 73,31% | 15,50% | 100,64% | 28,17% |

| HCCA-032 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 20 CM (BRIMAX 500) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK

## INDICE DE TRANSMITANCIA TERMICA "K"

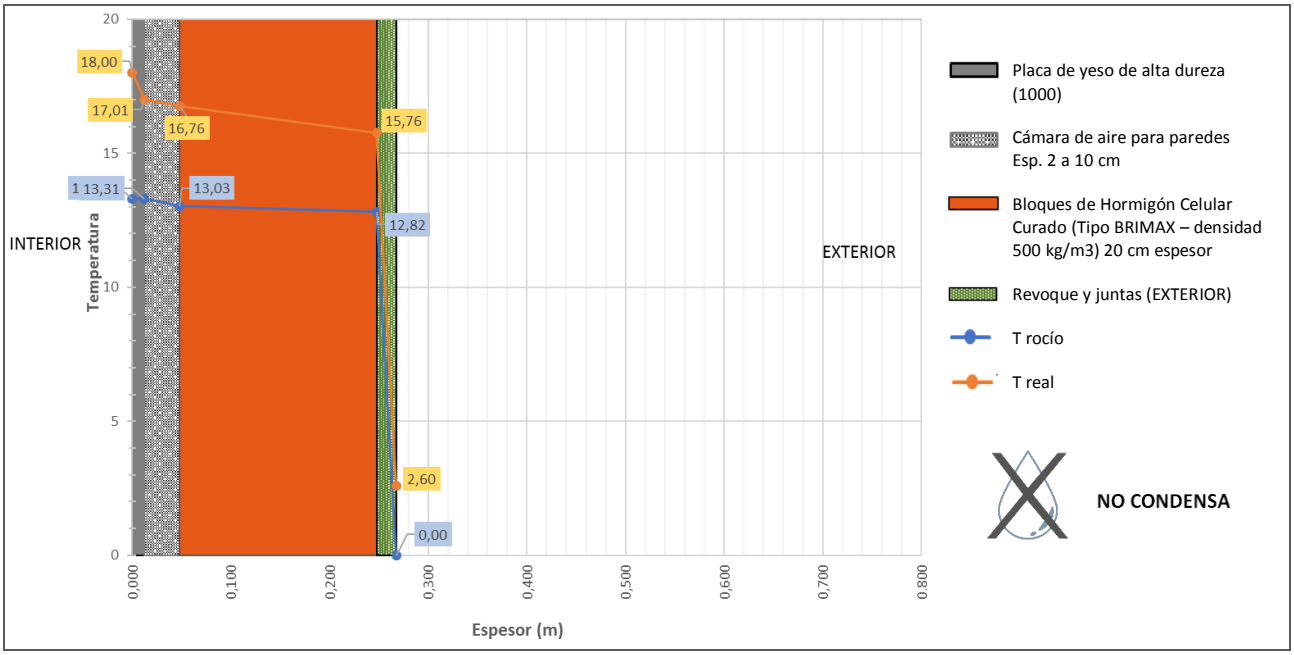
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,50 | 0,50 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



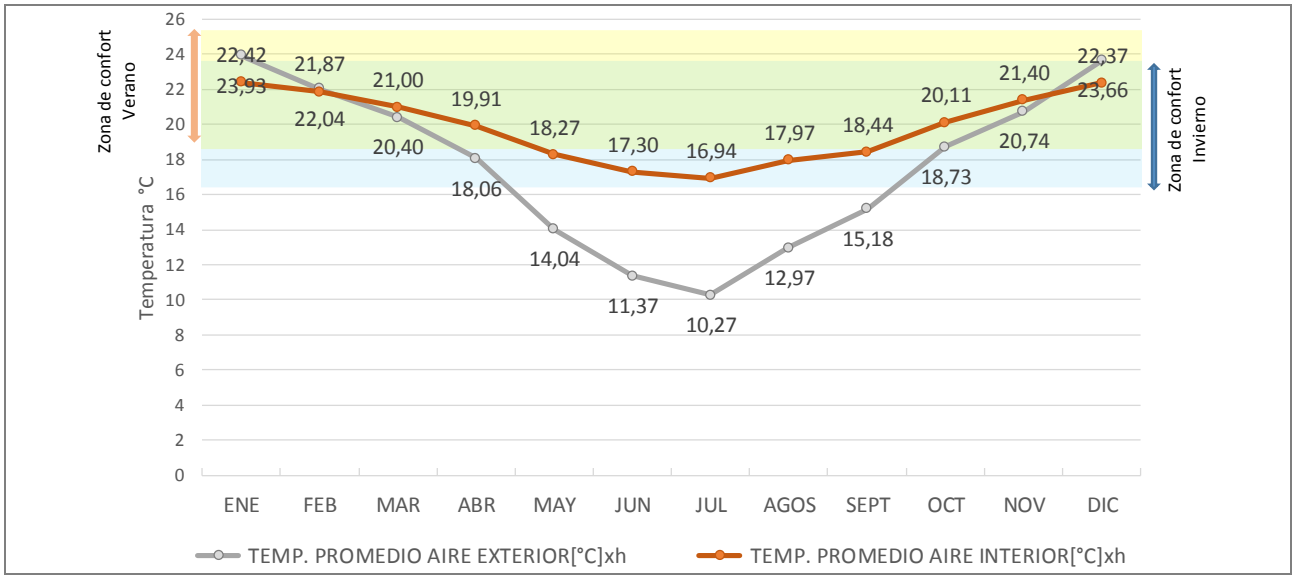

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 22,4 | 19,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,1** | **11,4** |
| | **Amortiguamiento:** | 0,011 | 0,015 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **9,6** | **7,9** |
| | **Amortiguamiento:** | 0,080 | 0,126 |

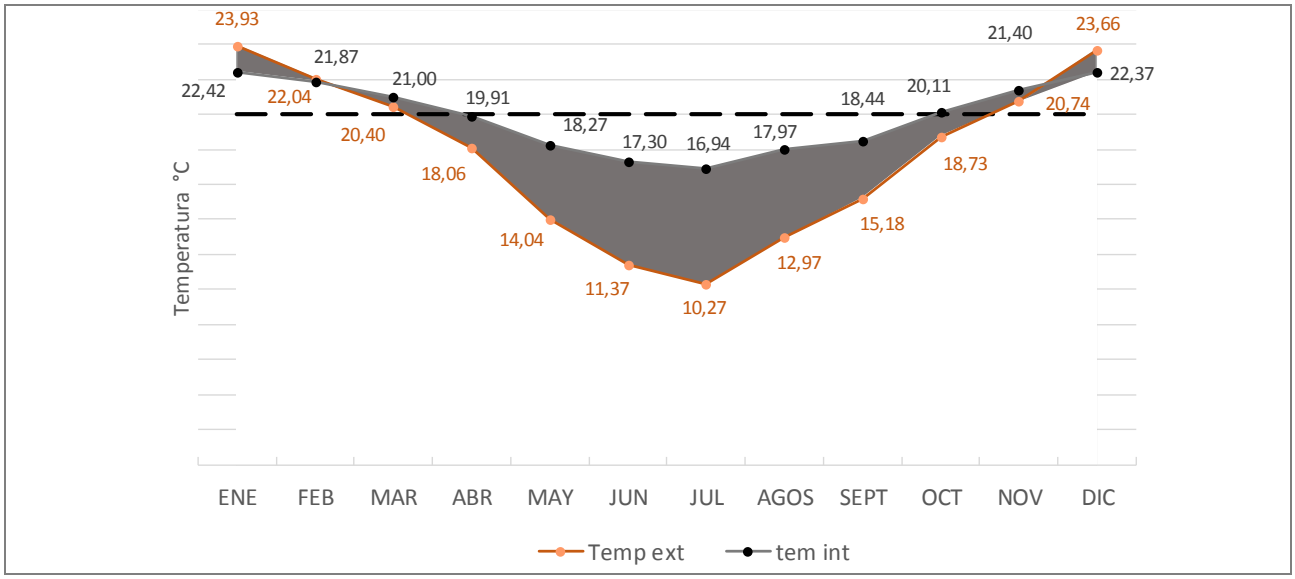
| HCCA-032 | MU | HCCA |
|---|---|---|

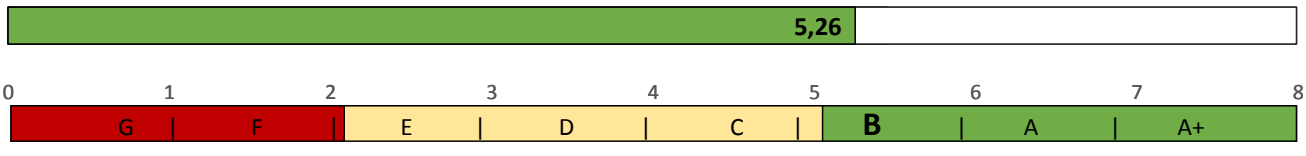
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,96** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,40** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



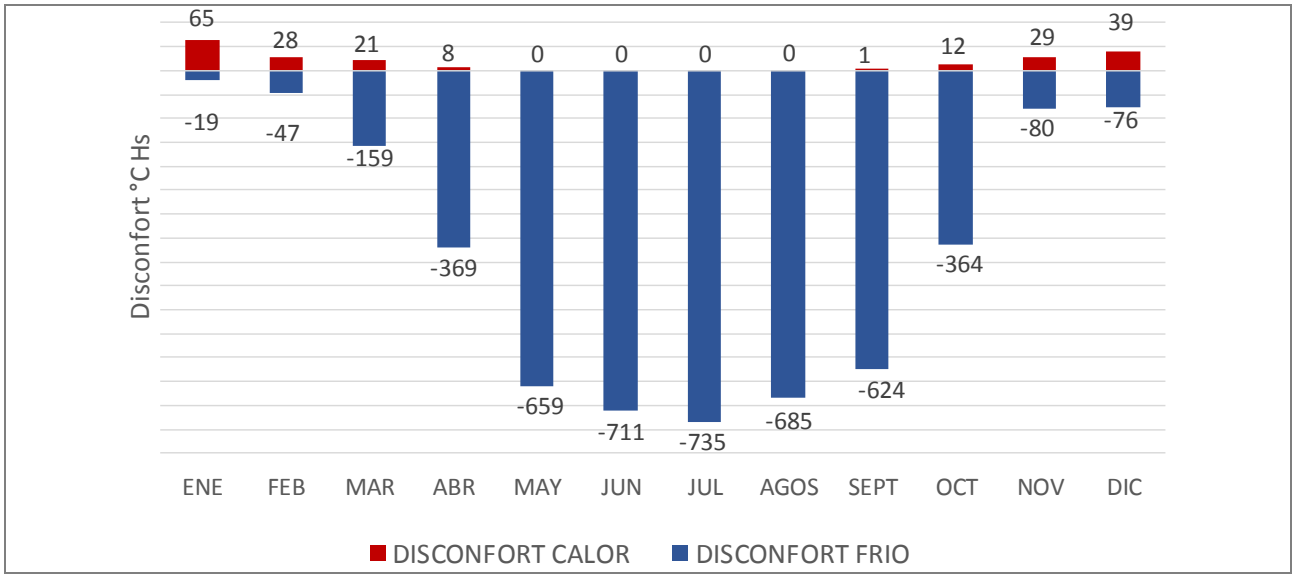




5,26 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-032 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

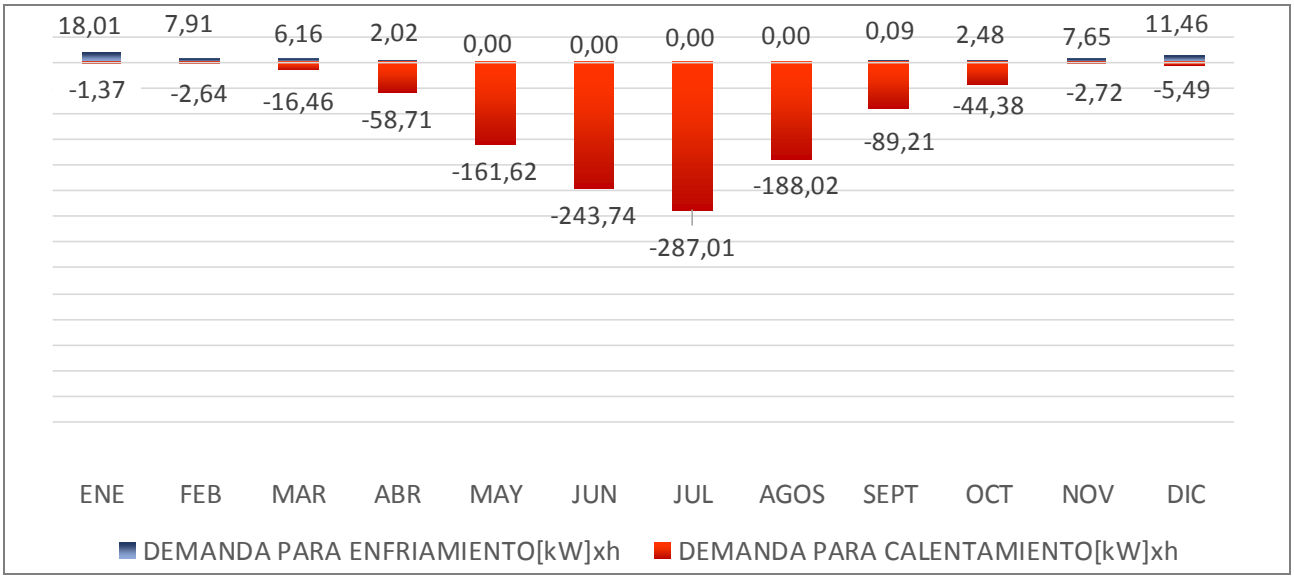
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **202** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.526** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.728** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

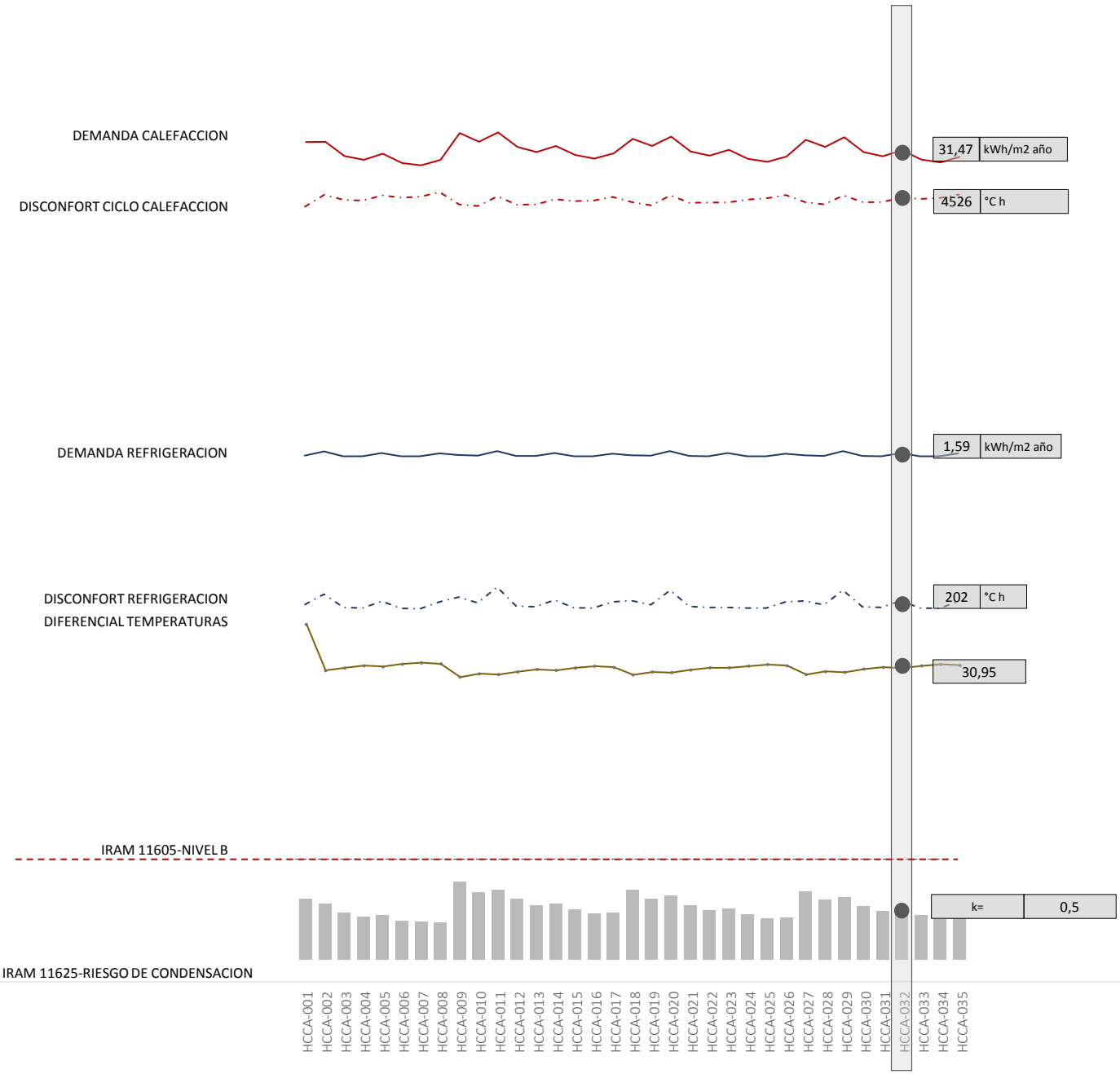



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **55,79** | kWh | 1,59 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.101,38** | kWh | 31,47 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.157,16** | kWh | **33,06** | kWh/m2/año |

| HCCA-032 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 123 | N° 116 | N° 104 | N° 120 | N° 083 | N° 092 |



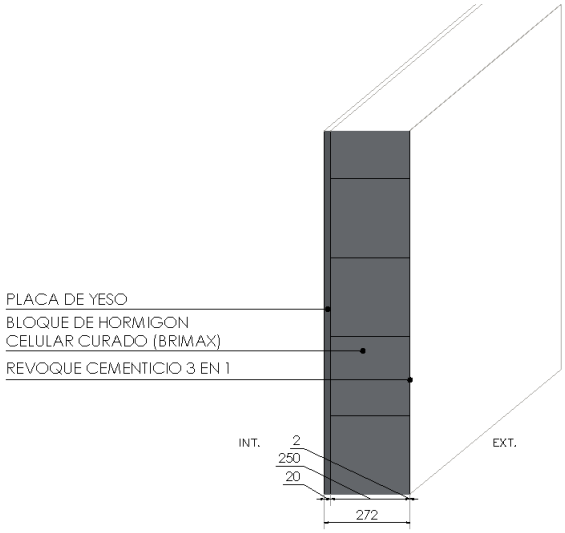

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,50 | 0% | 30,95 | 31,47 | 1,59 | 4526,00 | 202,00 |
| INC. FAMILIA | 94,65% | 0% | 99,77% | 100,34% | 131,40% | 100,44% | 113,02% |
| INC. MUNDIAL | 42,04% | 0% | 100,44% | 76,52% | 26,49% | 101,44% | 39,52% |

| HCCA-033 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (BRIMAX 500) CON REVOQUE CEMENTICIO 3 EN 1 EXTERIOR Y YESO INTERIOR

## INDICE DE TRANSMITANCIA TERMICA "K"

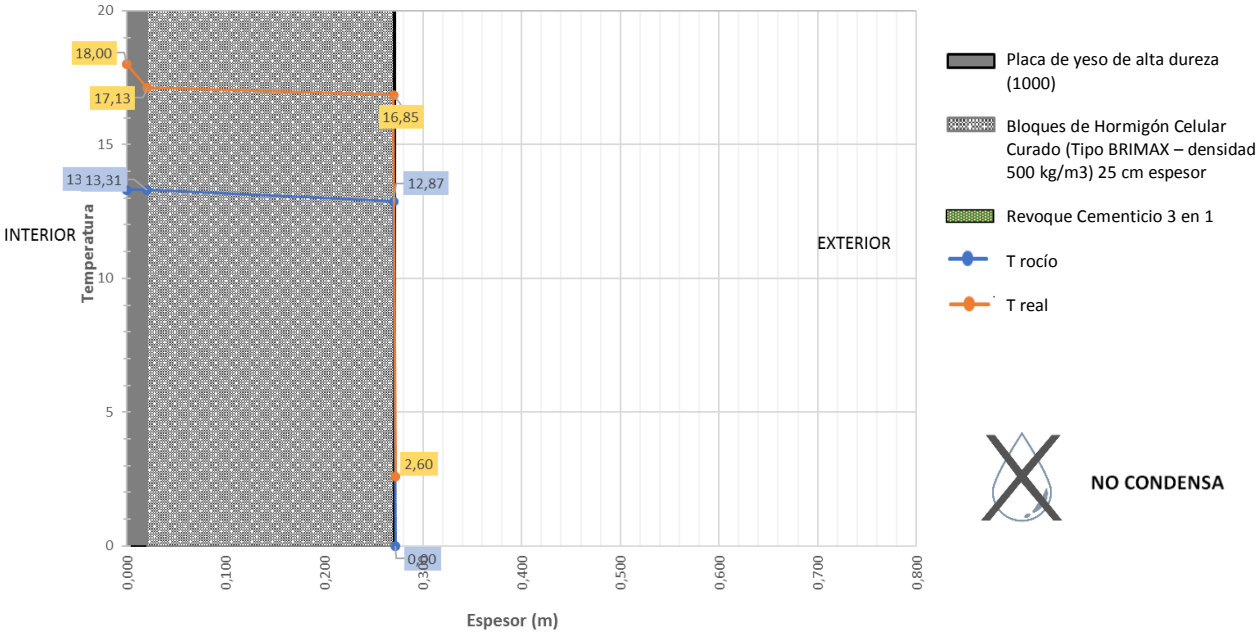
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,44 | 0,44 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



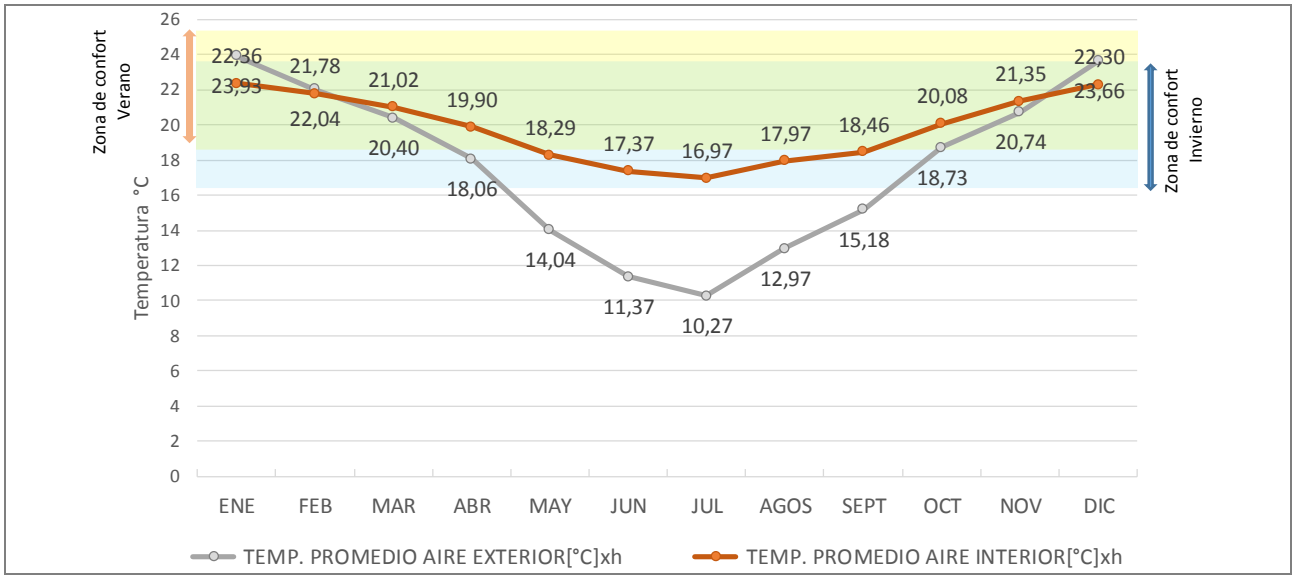

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 20,1 | Invierno 22,7 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **13,2** | **14,0** |
| | **Amortiguamiento:** | 0,008 | 0,006 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **9,6** | **10,1** |
| | **Amortiguamiento:** | 0,081 | 0,071 |

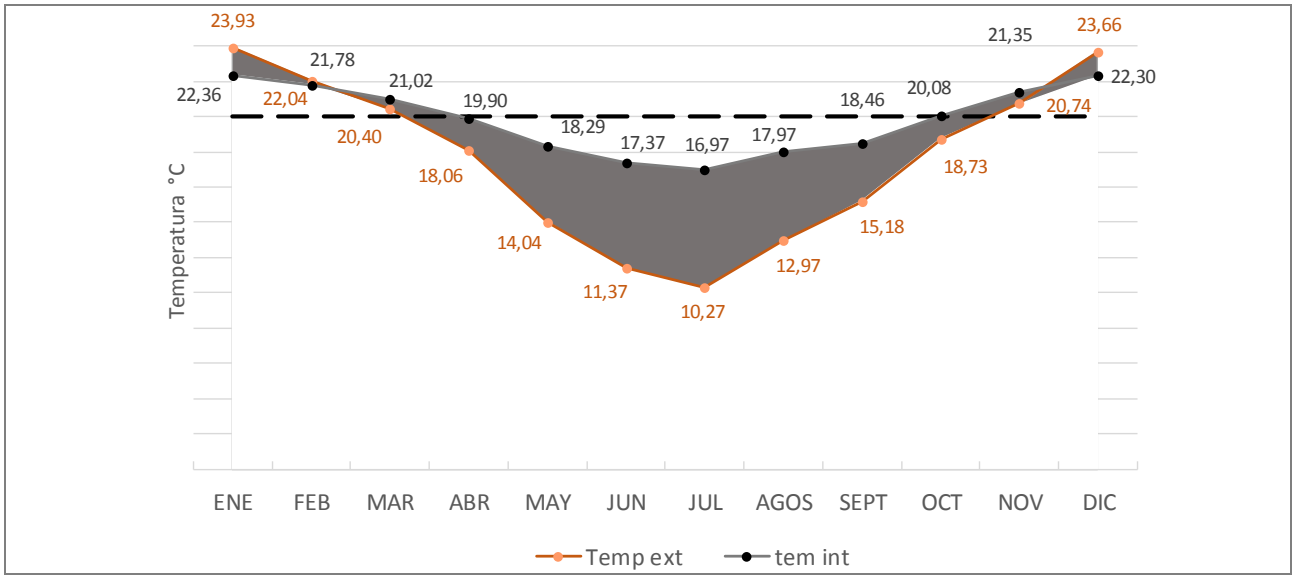
| HCCA-033 | MU | HCCA |
|---|---|---|

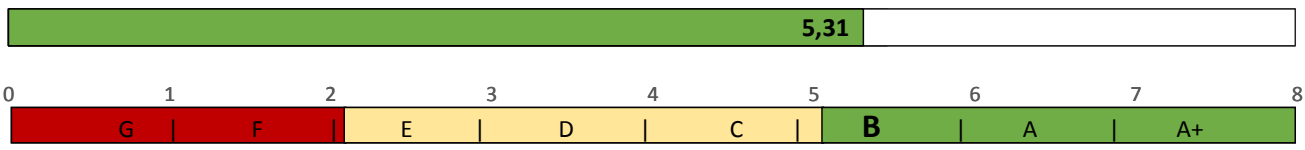
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,53** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,84** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



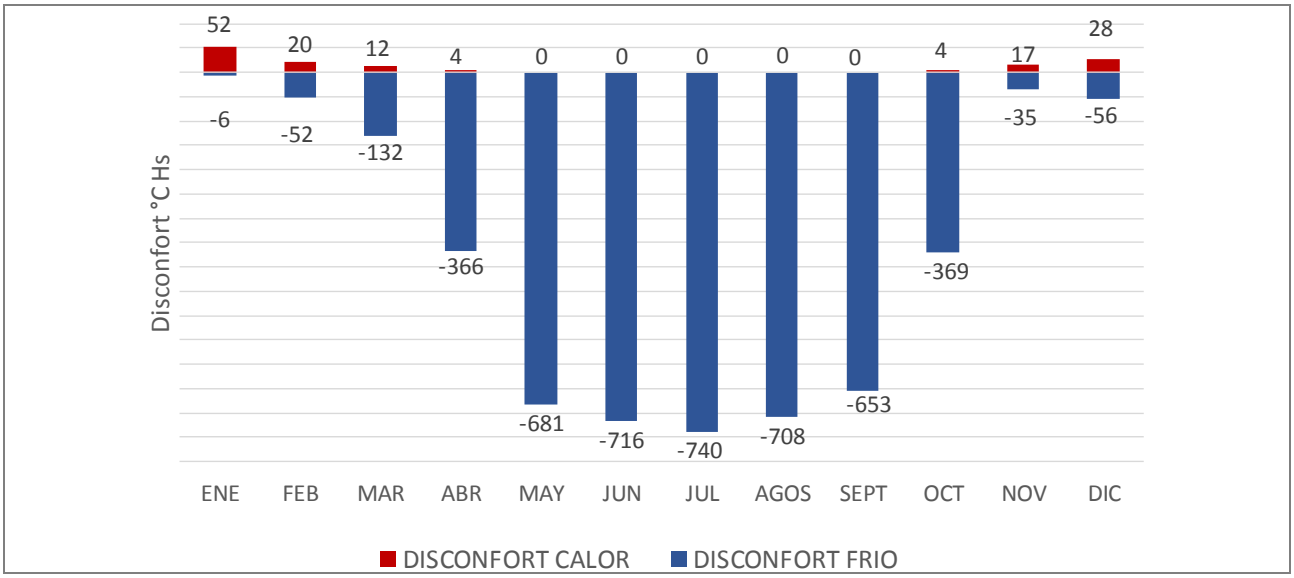




5,31 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-033 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

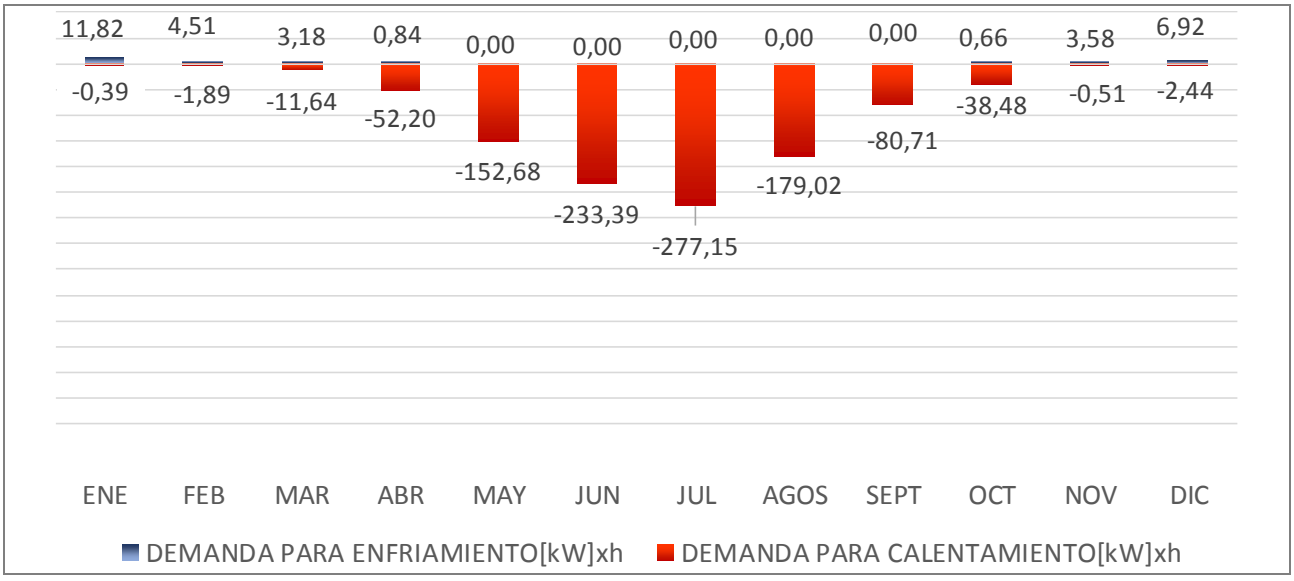
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **137** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.515** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.651** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

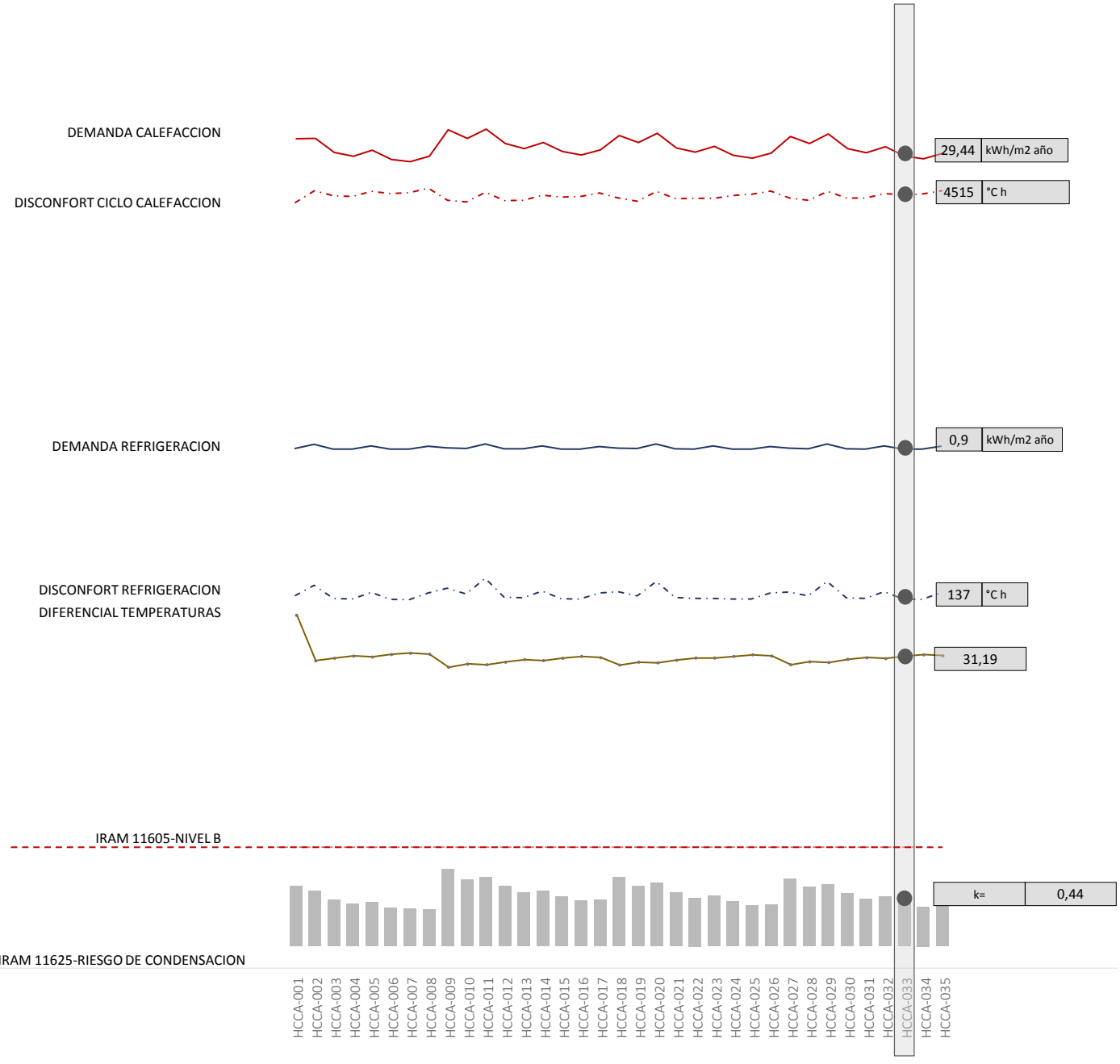



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **31,51** | kWh | 0,90 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.030,50** | kWh | 29,44 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.062,01** | kWh | **30,34** | kWh/m2/año |

| HCCA-033 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 092 | N° 091 | N° 048 | N° 012 | N° 072 | N° 011 |



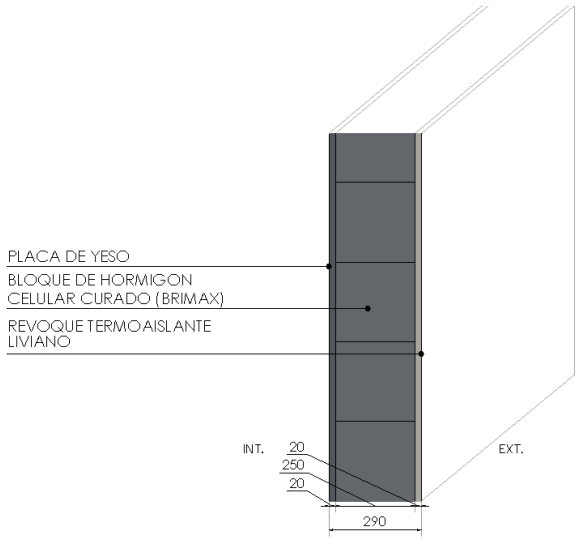

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,44 | 0% | 31,19 | 29,44 | 0,90 | 4515,00 | 137,00 |
| INC. FAMILIA | 83,30% | 0% | 100,54% | 93,87% | 74,38% | 100,20% | 76,65% |
| INC. MUNDIAL | 36,99% | 0% | 101,22% | 71,59% | 15,00% | 101,20% | 26,80% |

| HCCA-034 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (BRIMAX 500) CON REVOQUE EXTERIOR TERMOAISLANTE CLIMAMUR Y YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

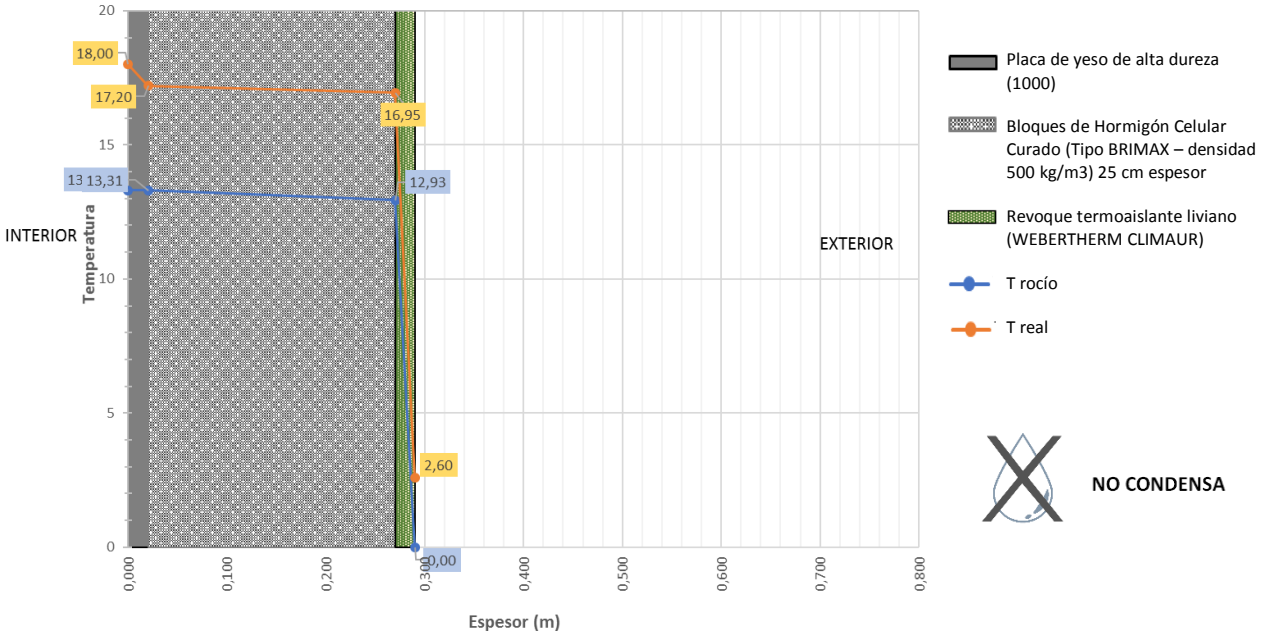
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,40 | 0,40 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



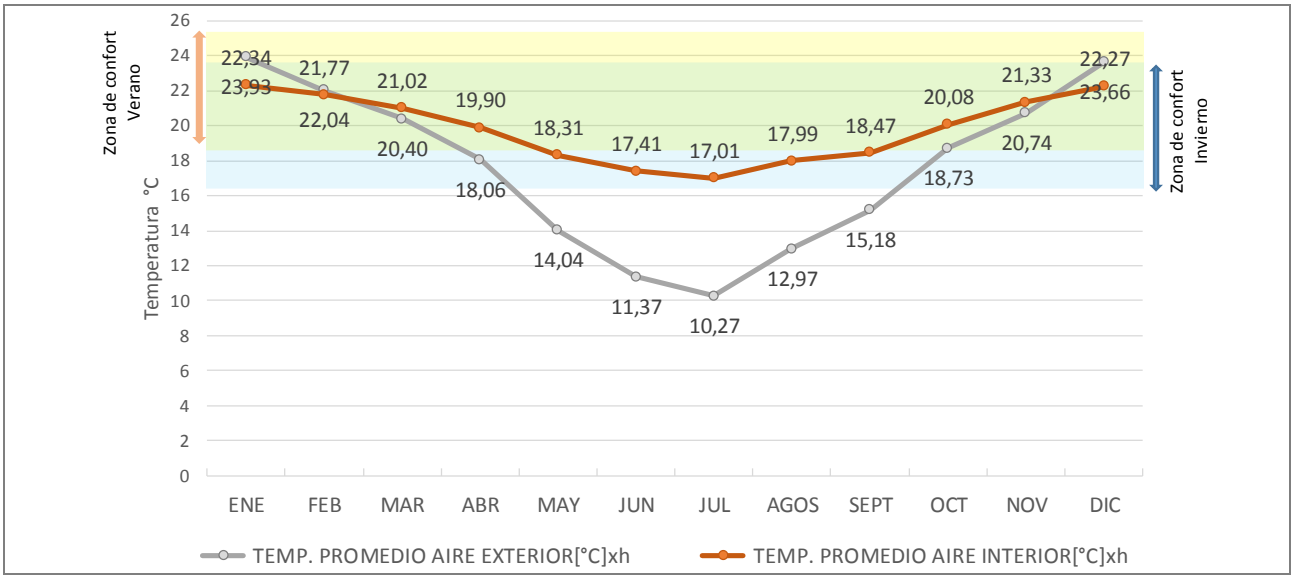

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 19,2 | 20,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,1** | **14,6** |
| | **Amortiguamiento:** | 0,005 | 0,004 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,0** | **10,9** |
| | **Amortiguamiento:** | 0,073 | 0,057 |

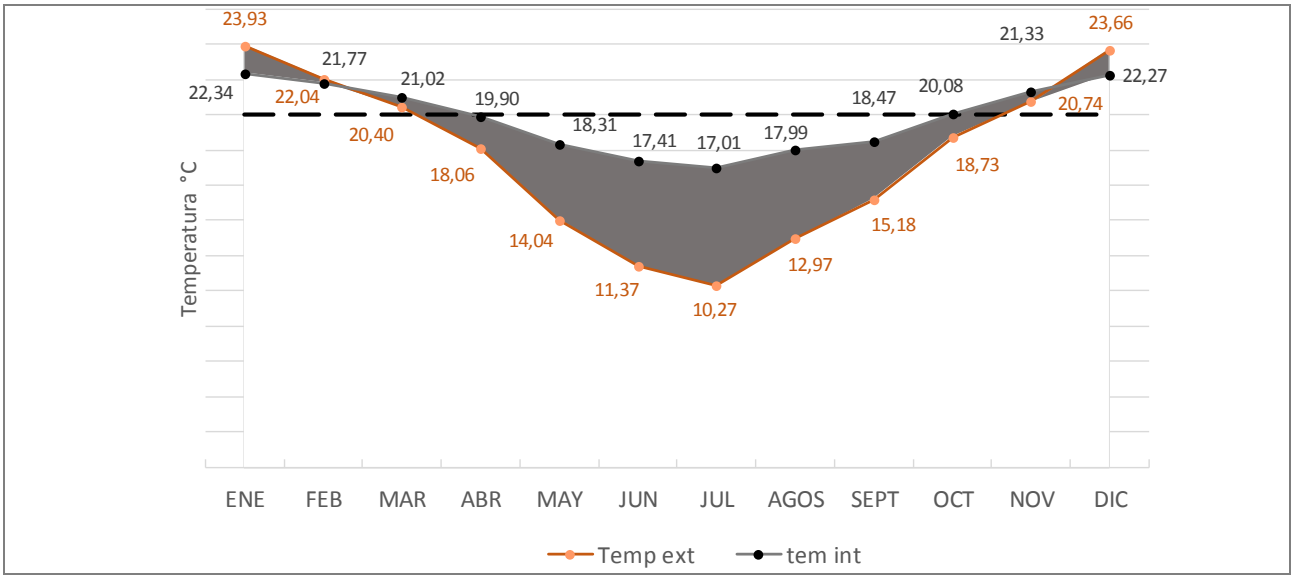
| HCCA-034 | MU | HCCA |
|---|---|---|

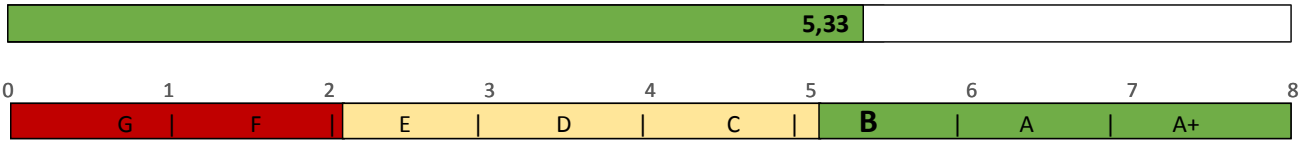
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,52** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,88** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



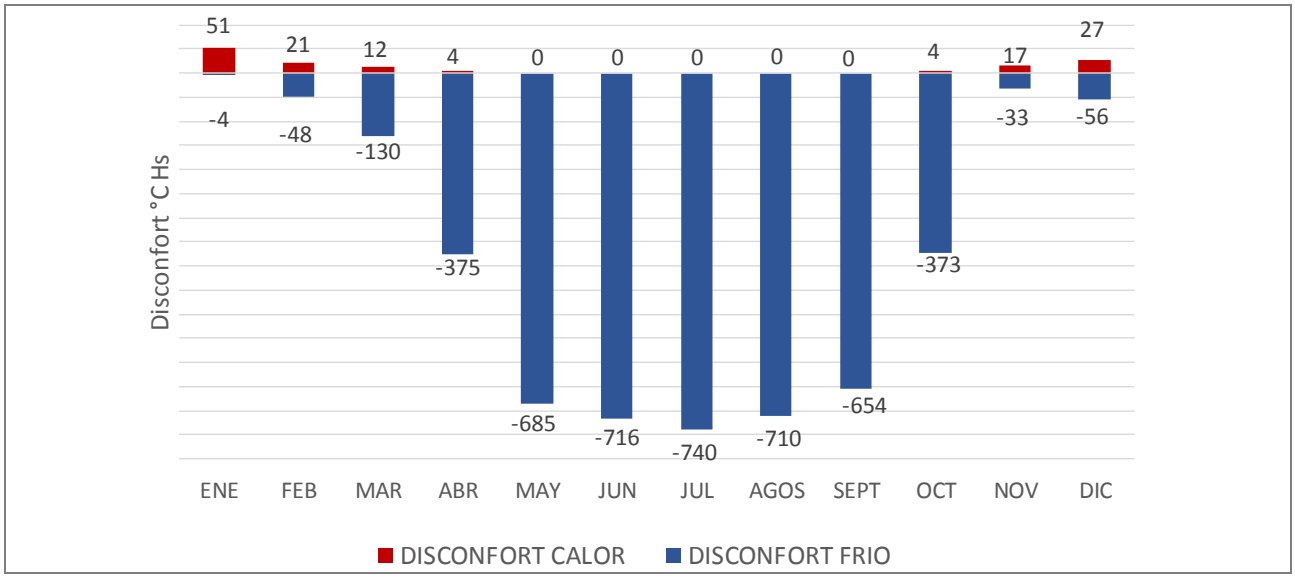




5,33 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| HCCA-034 | MU | HCCA |
|---|---|---|

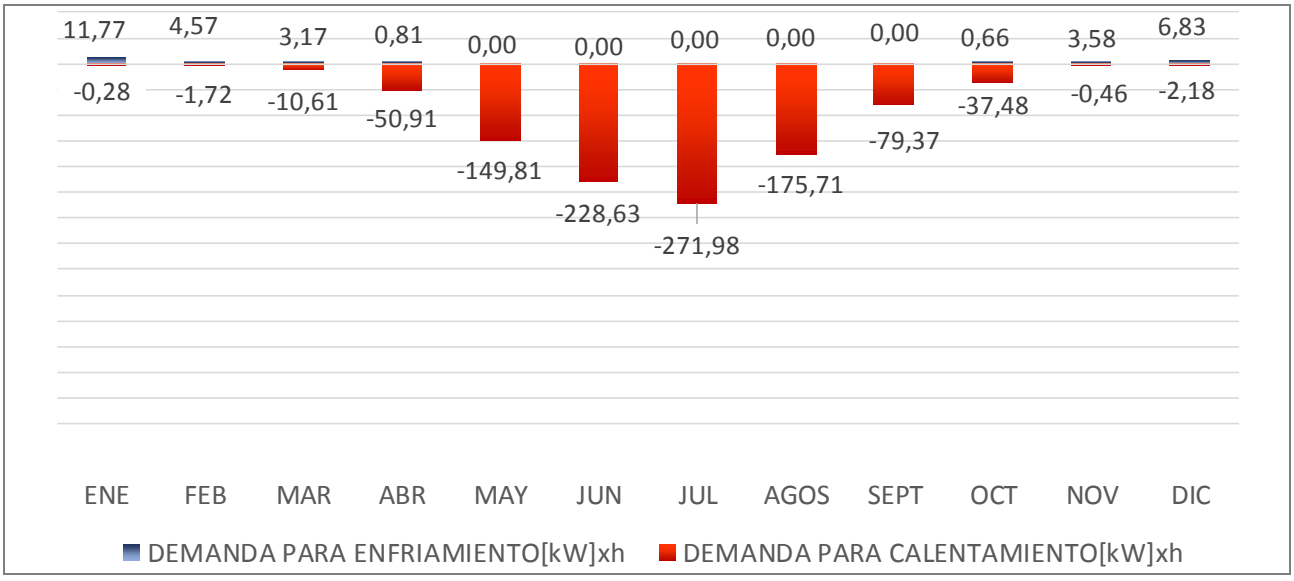
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **136** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.522** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.658** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

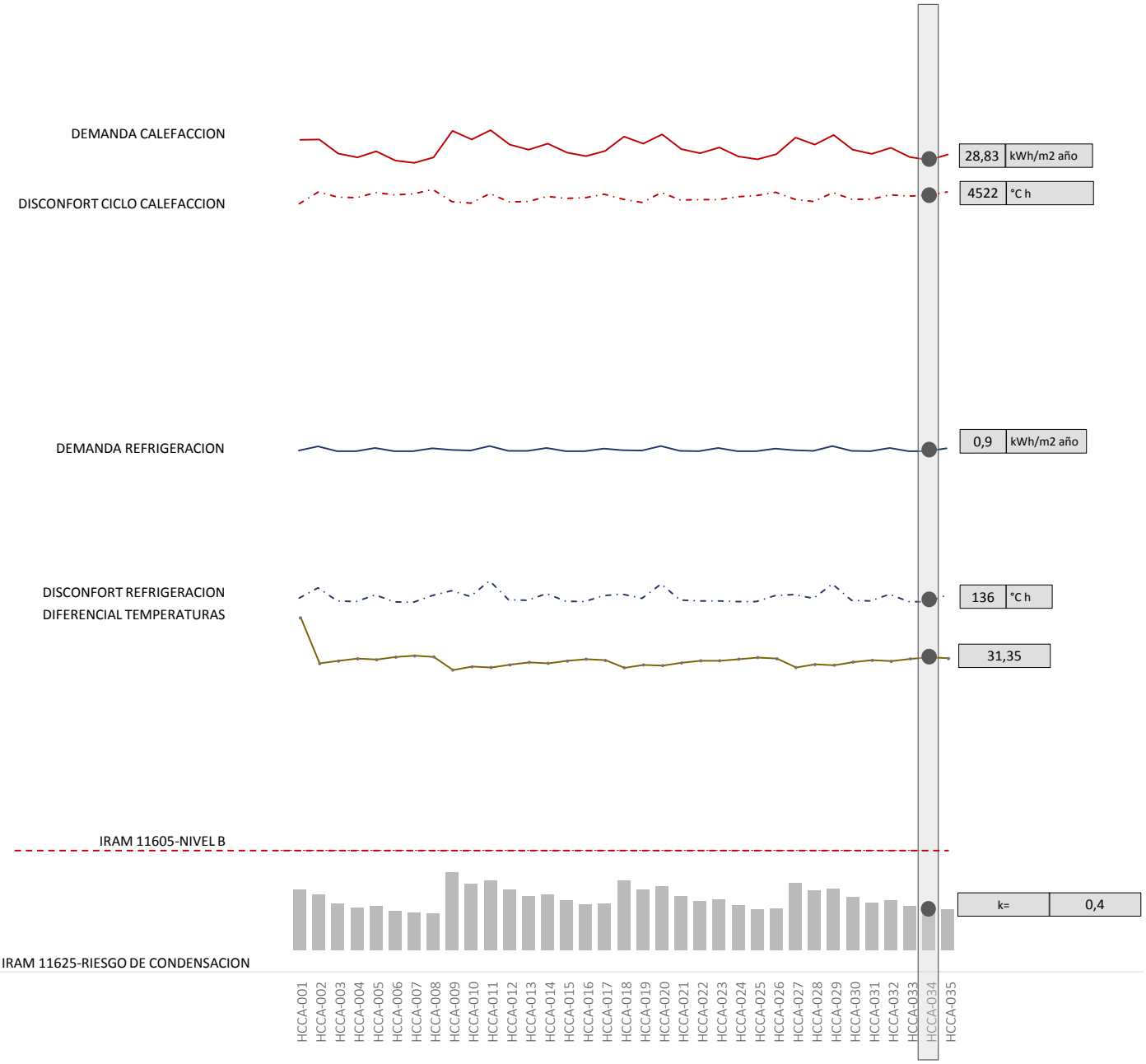



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **31,39** | kWh | 0,90 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.009,17** | kWh | 28,83 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.040,56** | kWh | **29,73** | kWh/m2/año |

| HCCA-034 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 073 | N° 064 | N° 022 | N° 010 | N° 081 | N° 008 |



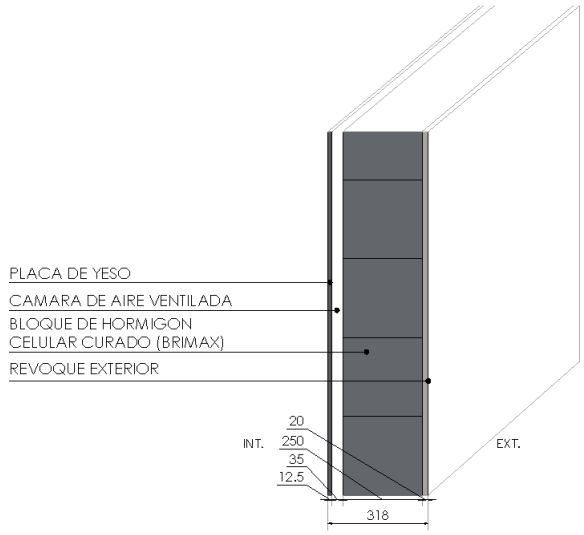

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,40 | 0% | 31,35 | 28,83 | 0,90 | 4522,00 | 136,00 |
| INC. FAMILIA | 75,72% | 0% | 101,06% | 91,92% | 74,38% | 100,35% | 76,09% |
| INC. MUNDIAL | 33,63% | 0% | 101,74% | 70,10% | 15,00% | 101,35% | 26,61% |

| HCCA-035 | MU | HCCA |
|---|---|---|

MAMPOSTERIA PORTANTE DE BLOQUE DE HCCA ESPESOR 25 CM (BRIMAX 500) CON REVOQUE EXTERIOR Y CAMARA DE AIRE 35 MM Y PLACA DURLOCK.

## INDICE DE TRANSMITANCIA TERMICA "K"

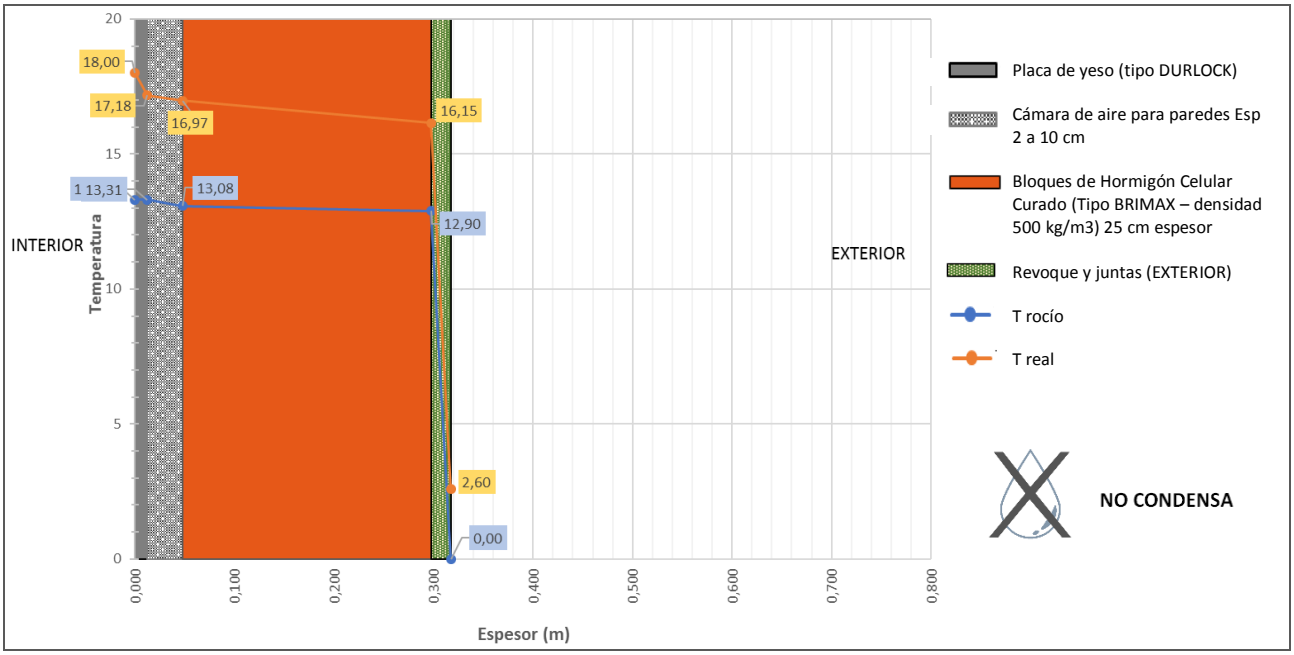
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,41 | 0,41 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



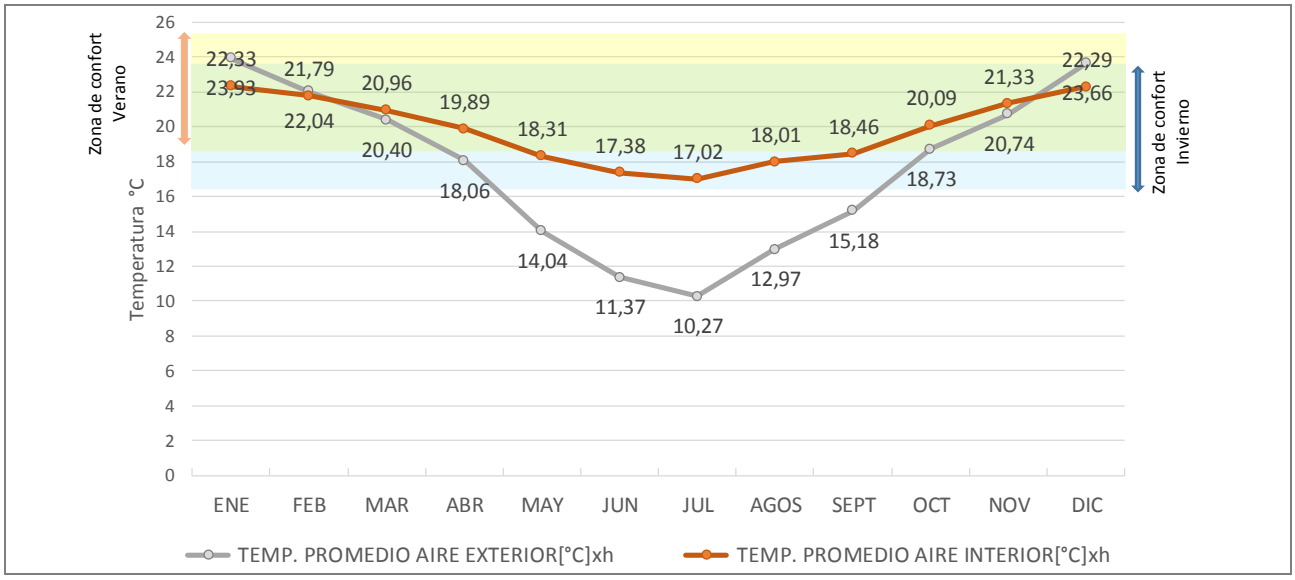

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 22,0 | 19,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,7** | **14,0** |
| | **Amortiguamiento:** | 0,004 | 0,006 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,4** | **9,6** |
| | **Amortiguamiento:** | 0,050 | 0,080 |

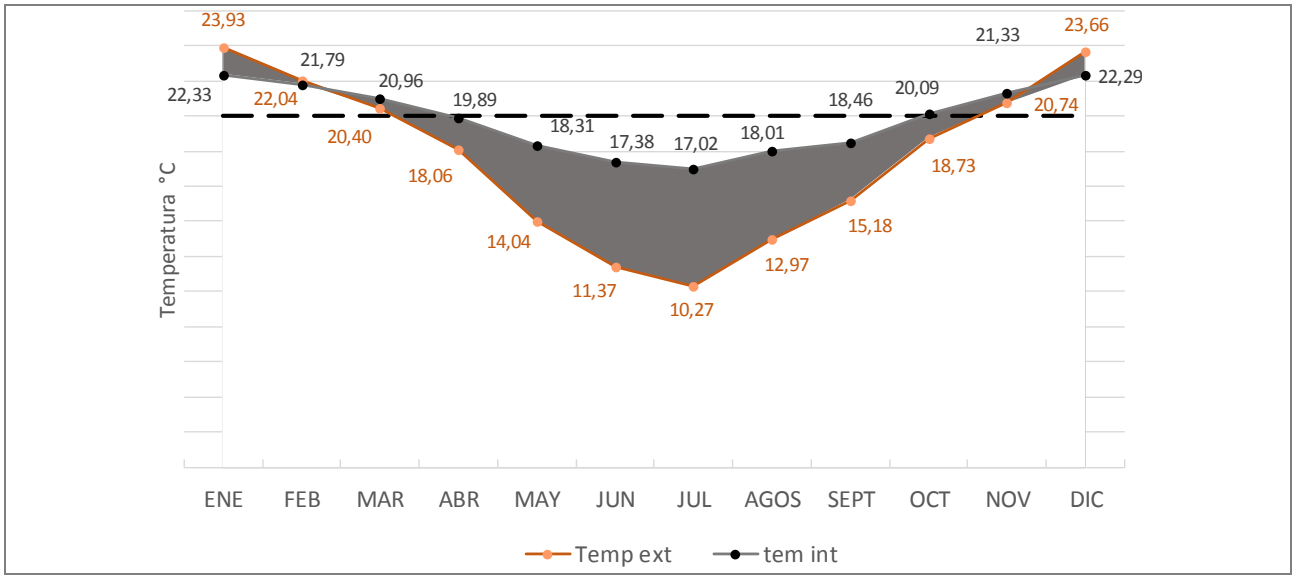
| HCCA-035 | MU | HCCA |
|---|---|---|

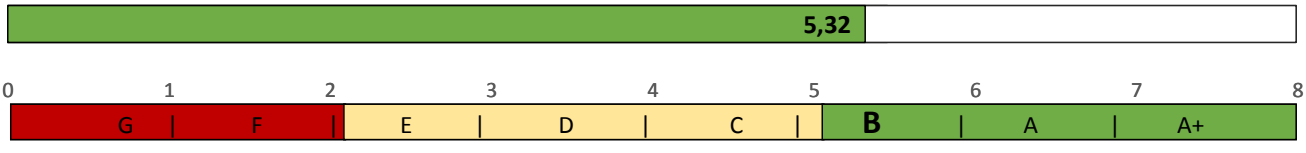
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,80** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,66** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



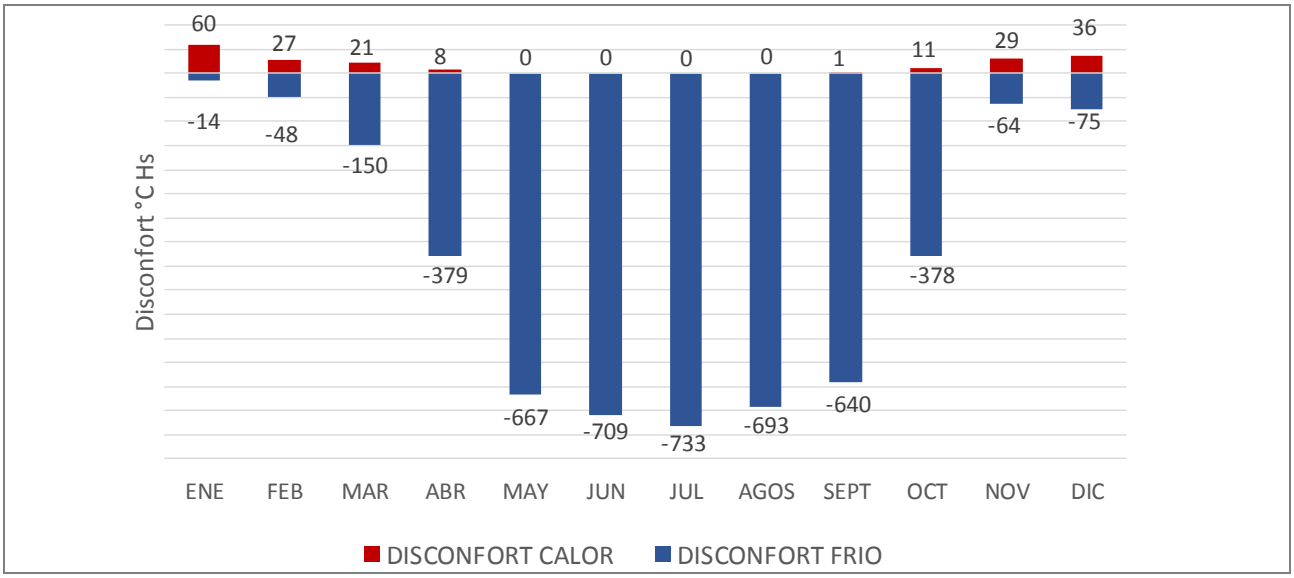




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| HCCA-035 | MU | HCCA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

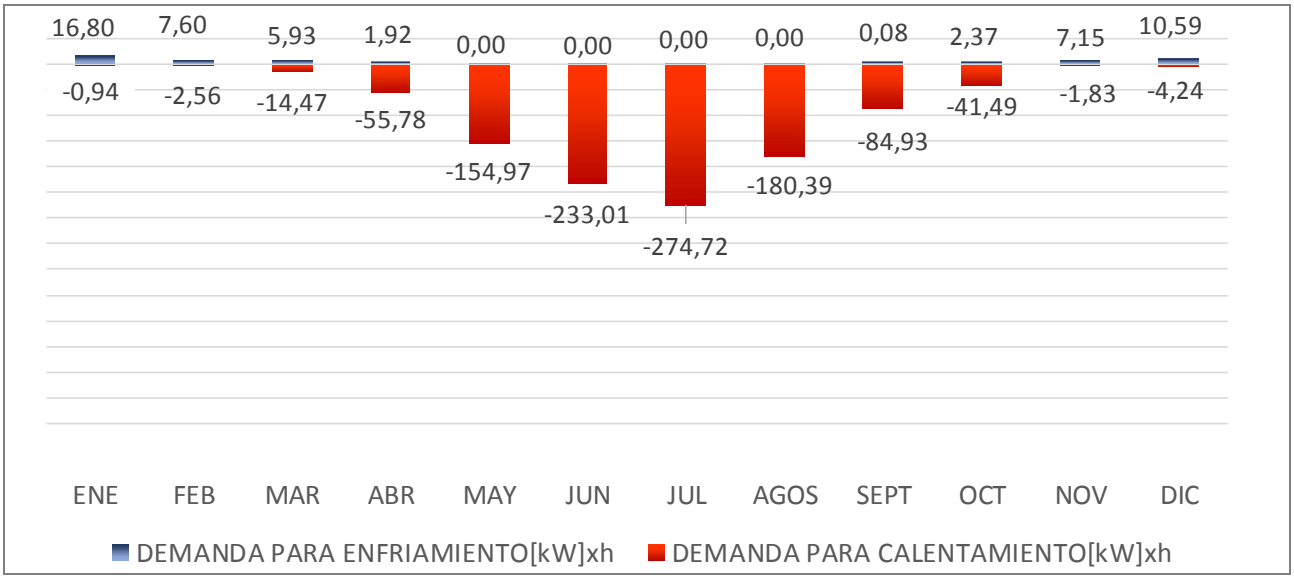
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **193** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.550** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.743** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

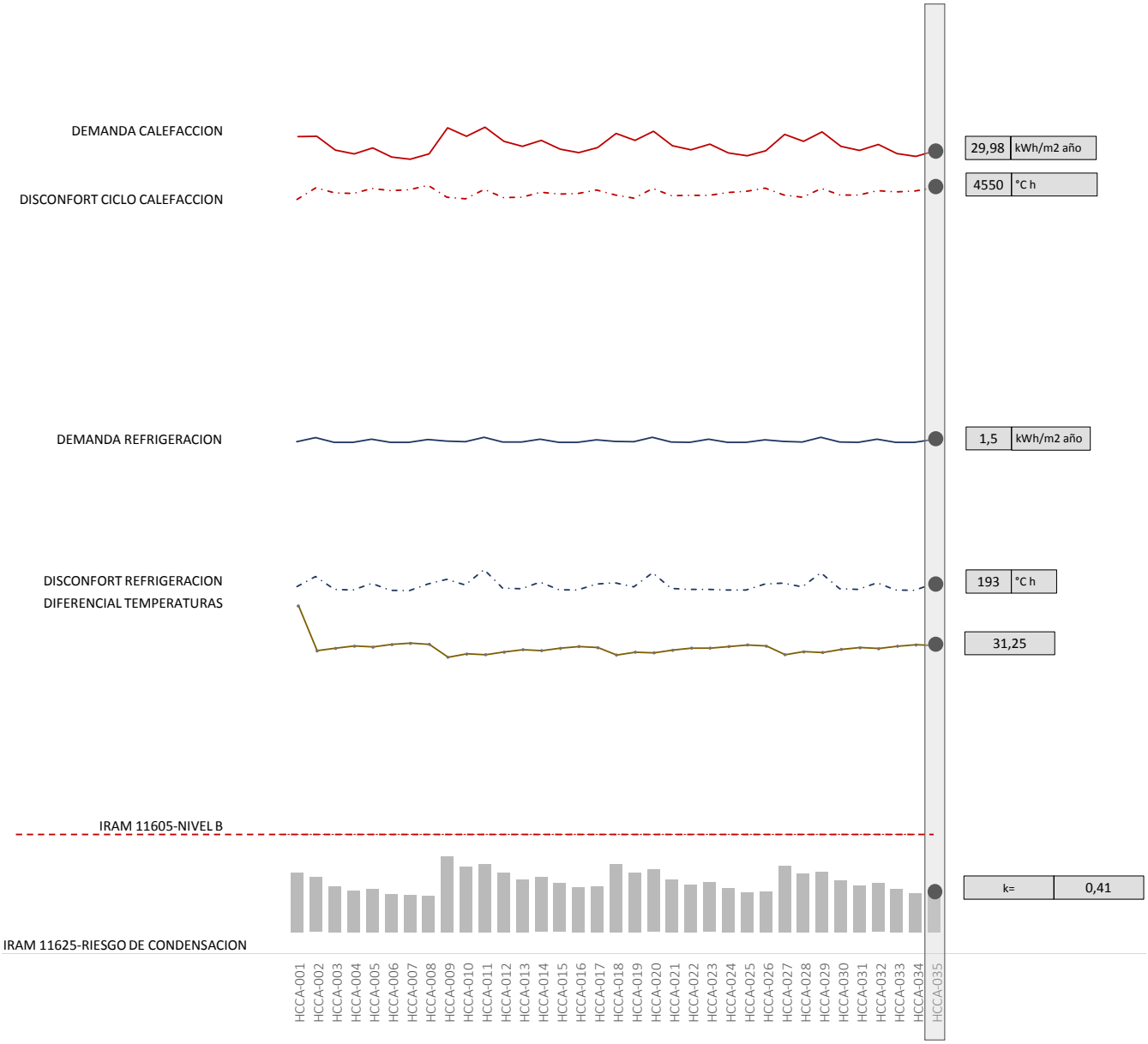



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **52,42** | kWh | 1,50 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.049,32** | kWh | 29,98 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.101,74** | kWh | **31,48** | kWh/m2/año |

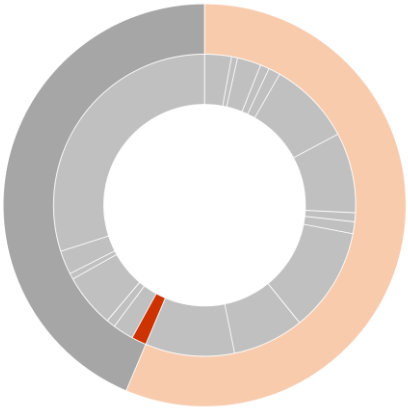
| HCCA-035 | MU | HCCA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 078 | N° 083 | N° 062 | N° 103 | N° 103 | N° 083 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4461,58 | 511,15 |
| FAMILIA | 0,53 | 0% | 31,02 | 31,36 | 1,21 | 4506,12 | 178,74 |
| INDIVIDUAL | 0,41 | 0% | 30,75 | 29,98 | 1,50 | 4550,00 | 193,00 |
| INC. FAMILIA | 77,62% | 0% | 99,12% | 95,59% | 123,97% | 100,97% | 107,98% |
| INC. MUNDIAL | 34,47% | 0% | 99,79% | 72,90% | 24,99% | 101,98% | 37,76% |



# VIDRIO

**VID 001**: VIDRIO SIMPLE ESPESOR 4 MM.

**VID 002**: VIDRIO SIMPLE ESPESOR 6 MM.

**VID 003:** VIDRIO SIMPLE ESPESOR 10 MM

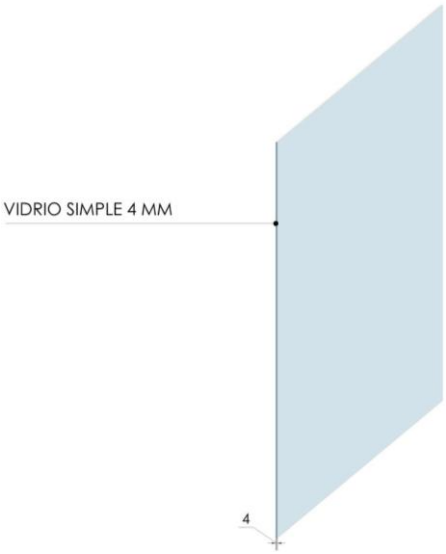
**VID 004:** DOBLE VIDRIADO HERMÉTICO (DVH) 4-9-4 (CON AIRE).

**VID 005:** DOBLE VIDRIADO HERMÉTICO (DVH) 4-12-4 (CON AIRE).

| VID-001 | MU | VIDRIO |
|---|---|---|
| VIDRIO SIMPLE ESPESOR 4 MM. | | |

## INDICE DE TRANSMITANCIA TERMICA "K"

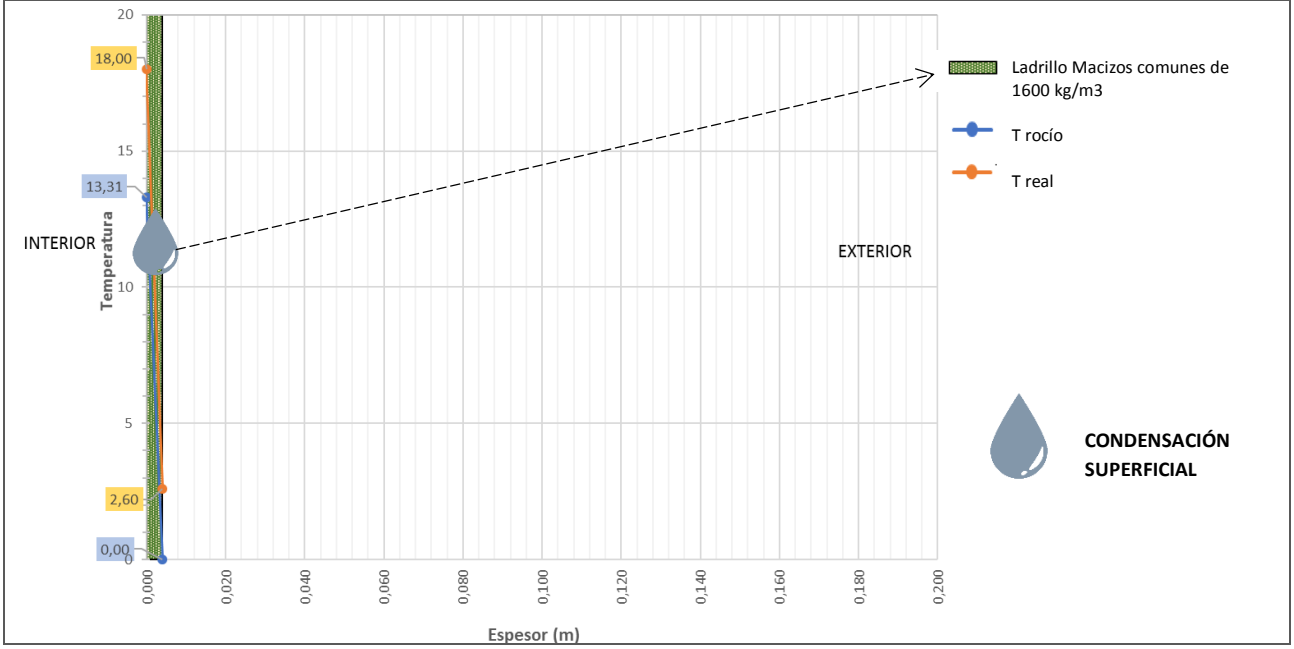
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 5,65 | 5,65 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



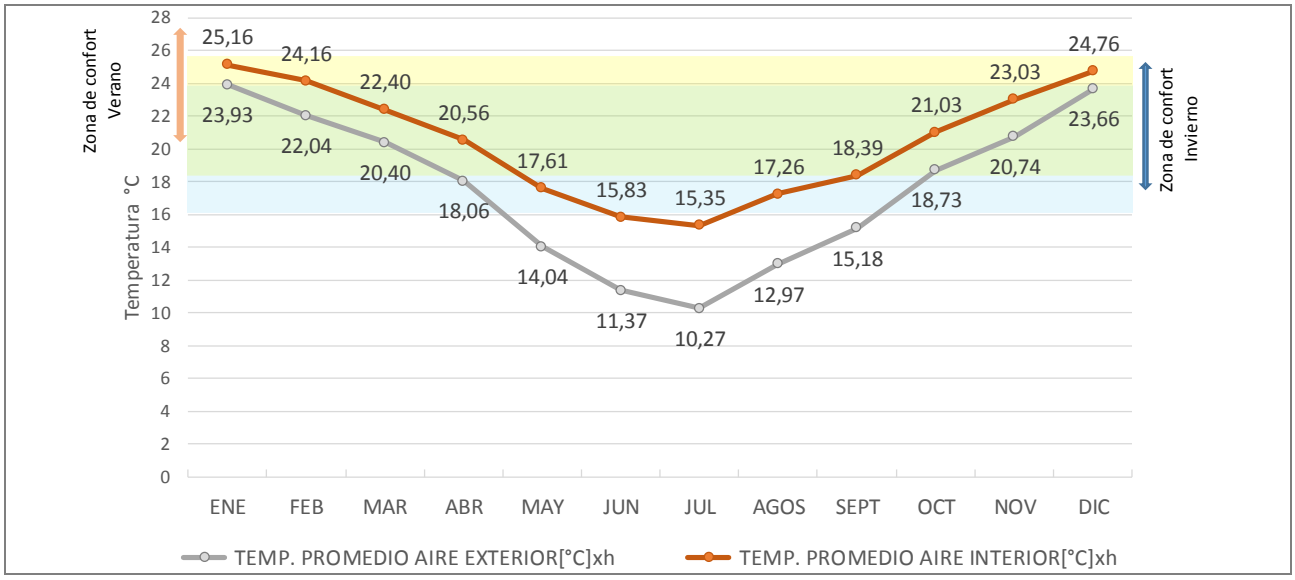

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | | 1,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | 1,000 | 1,000 |

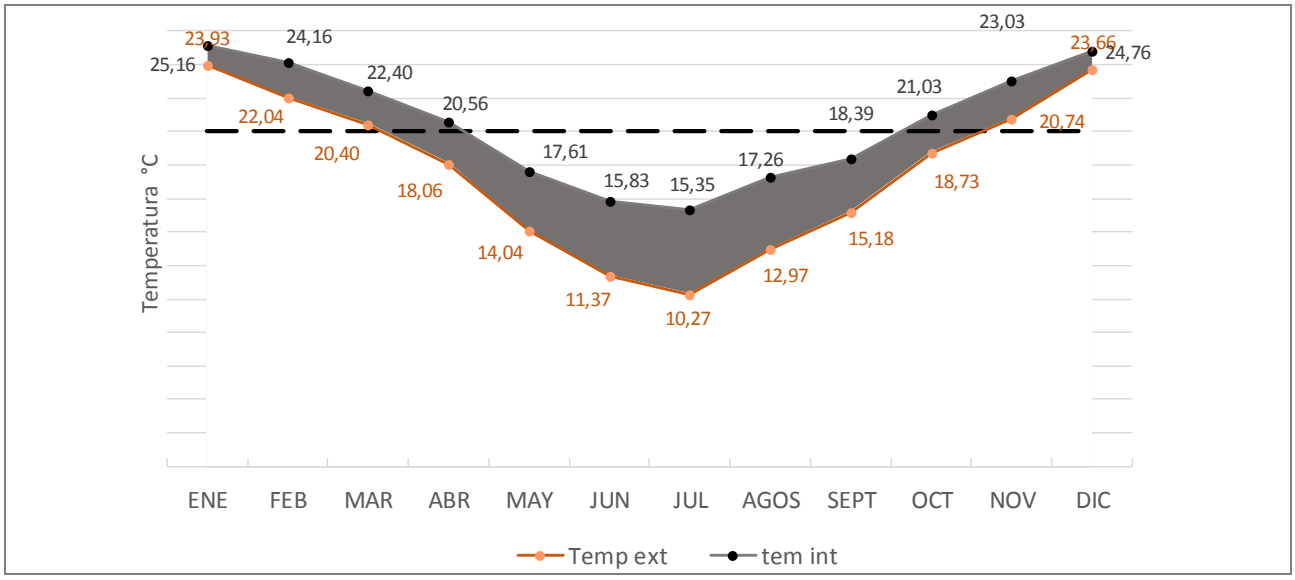
| VID-001 | MU | VIDRIO |
|---|---|---|

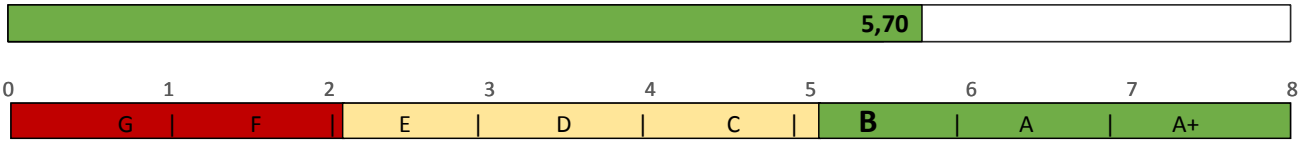
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 07/11 17:00 hs | **36,87** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 22/07 09:00 hs | **6,13** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



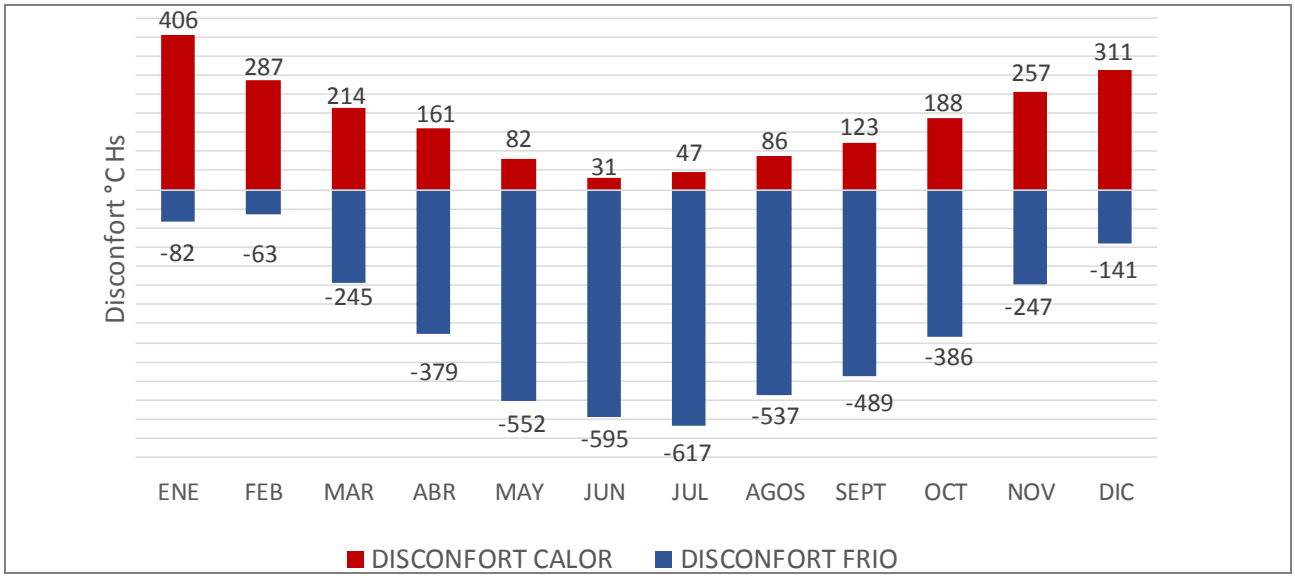




5,70 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,71

| VID-001 | MU | VIDRIO |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

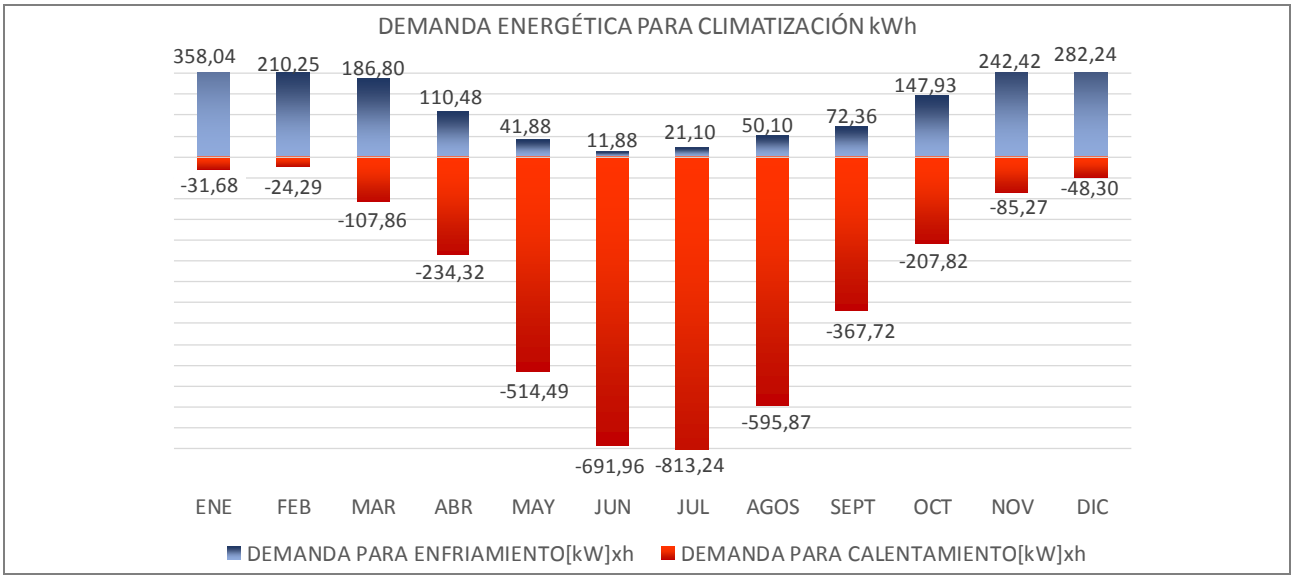
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **2.192** | °C Hs | 25% |
| HORAS DE DISCONFORT POR FRÍO | **4.333** | °C Hs | 49% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **6.526** | **°C Hs** | **74%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

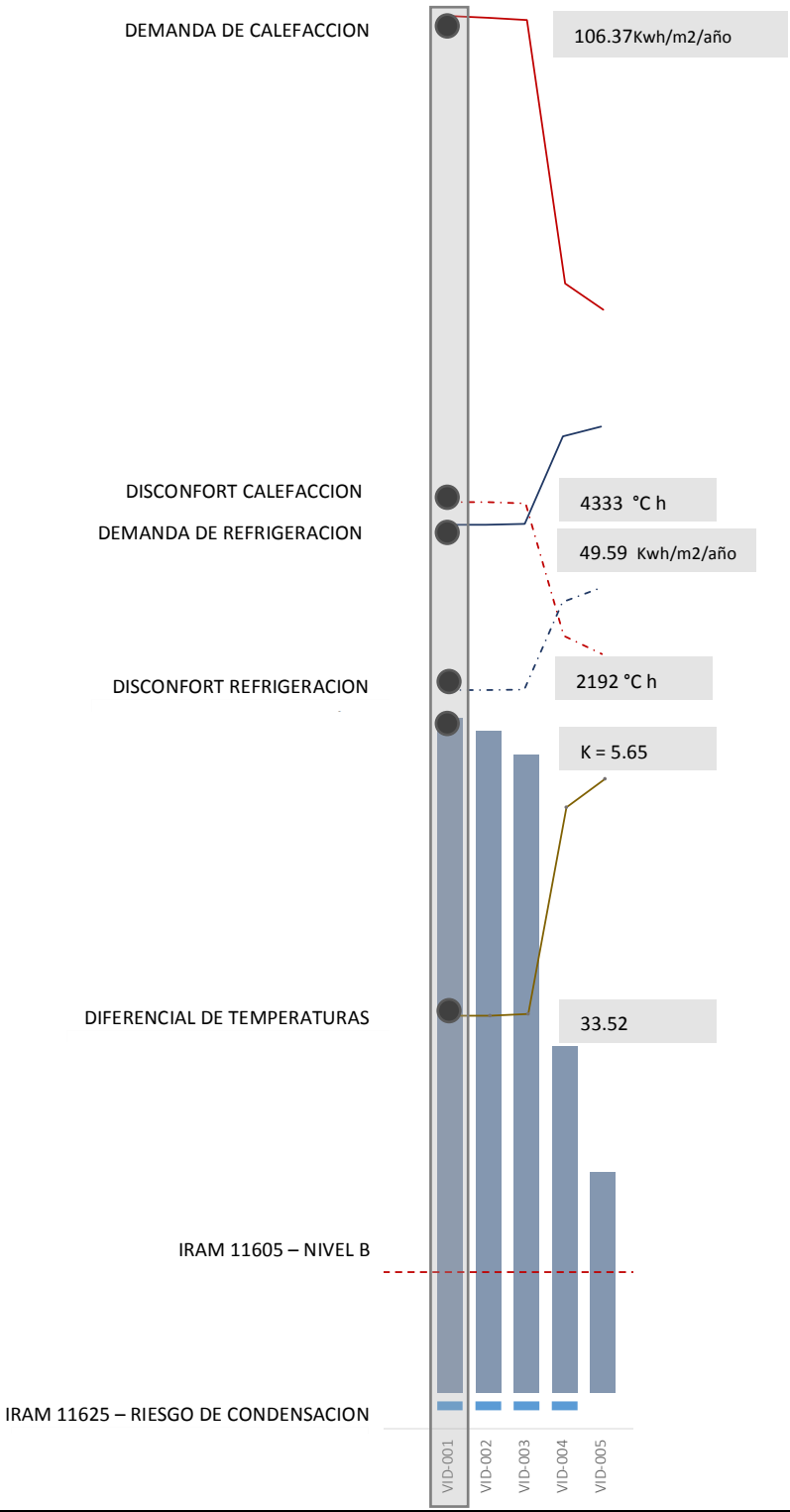



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **1.735,49** | kWh | 49,59 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **3.722,81** | kWh | 106,37 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **5.458,30** | kWh | **155,95** | kWh/m2/año |

| VID-001 | MU | VIDRIO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 196 | N° 005 | N° 196 | N° 191 | N° 005 | N° 193 |

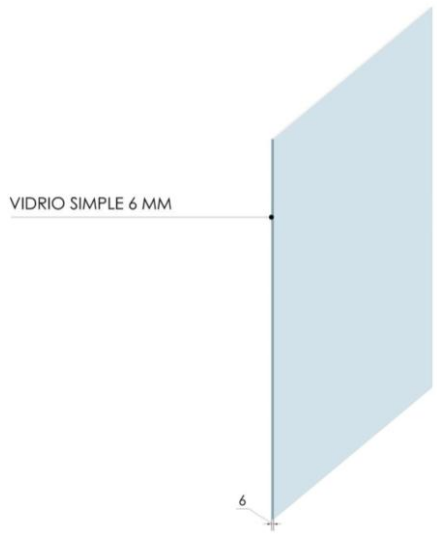



| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 4,26 | 67% | 41,04 | 85,86 | 56,41 | 3944 | 2468 |
| INDIVIDUAL | 5,65 | 100% | 33,52 | 106,37 | 49,59 | 4333 | 2192 |
| INC. FAMILIA | 132,75% | 150% | 81,68% | 123,89% | 87,91% | 109,86% | 88,82% |
| INC. MUNDIAL | 475,04% | 357% | 108,78% | 258,65% | 826,26% | 97,12% | 428,83% |

| VID-002 | MU | VIDRIO |
|---|---|---|
| VIDRIO SIMPLE ESPESOR 6 MM. | | |

## INDICE DE TRANSMITANCIA TERMICA "K"

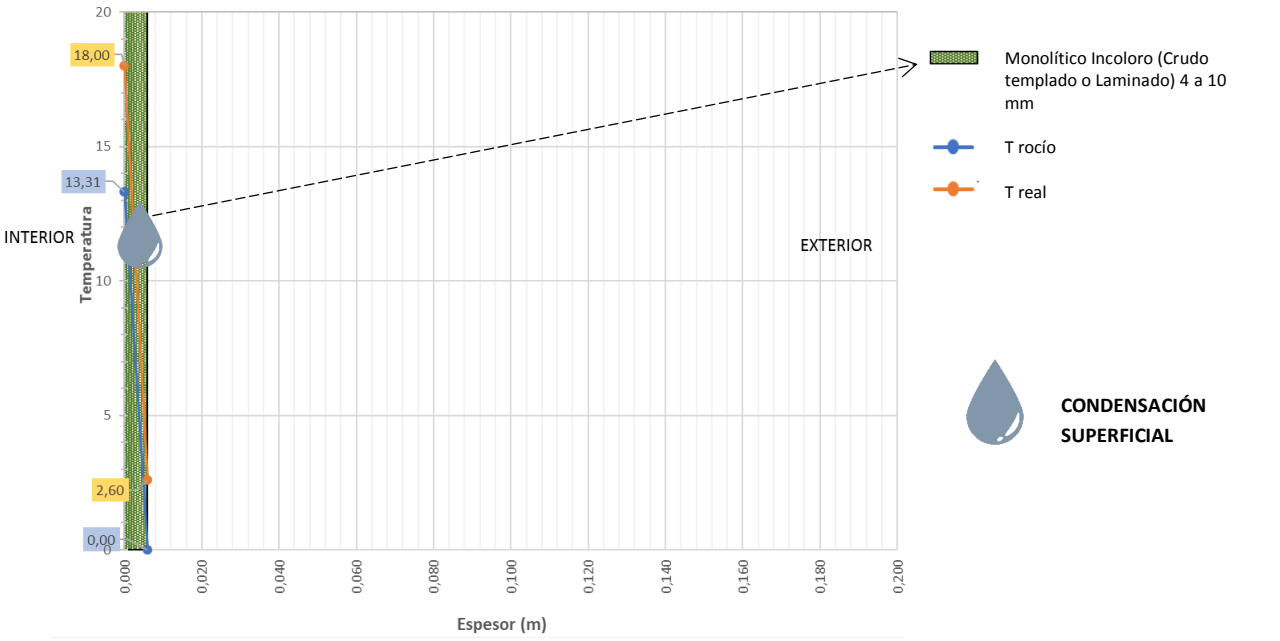
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 5,54 | 5,54 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



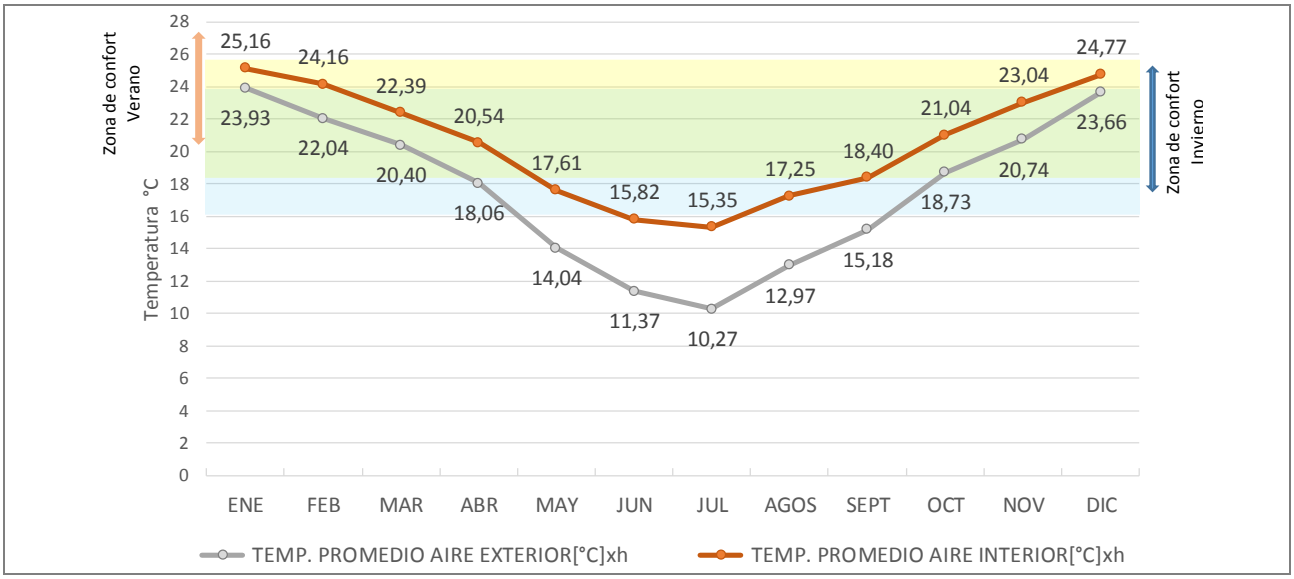

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | | 1,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | 1,000 | 1,000 |

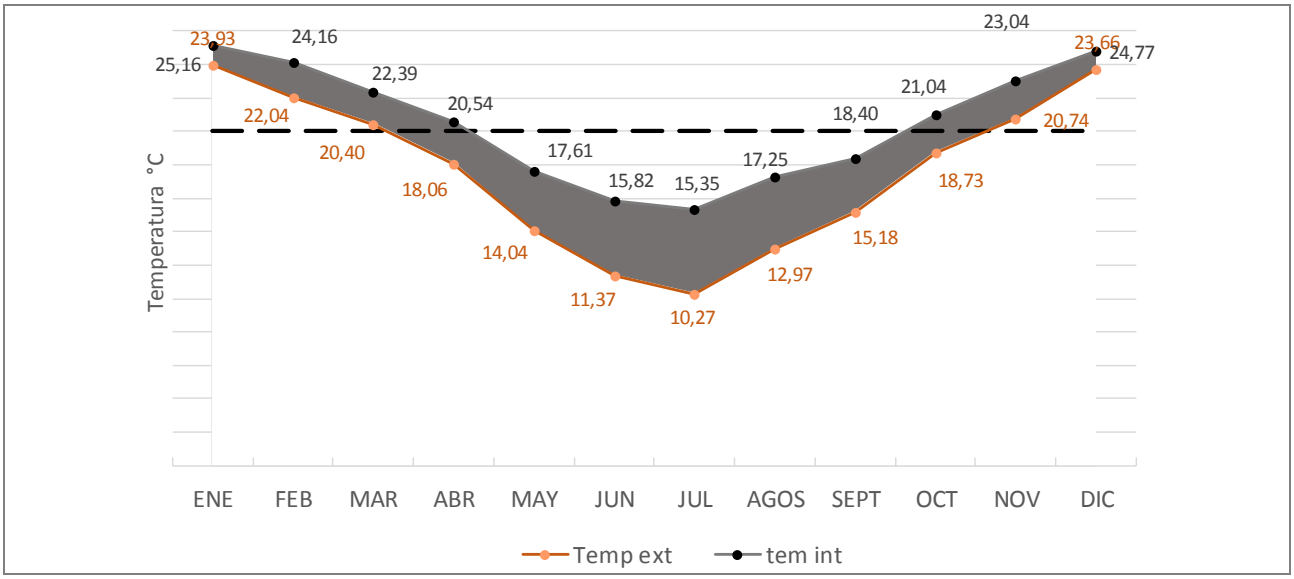
| VID-002 | MU | VIDRIO |
|---|---|---|

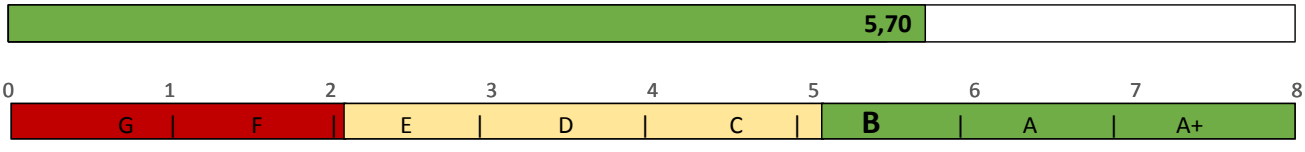
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 07/11 17:00 hs | **36,85** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 22/07 08:00 hs | **6,14** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



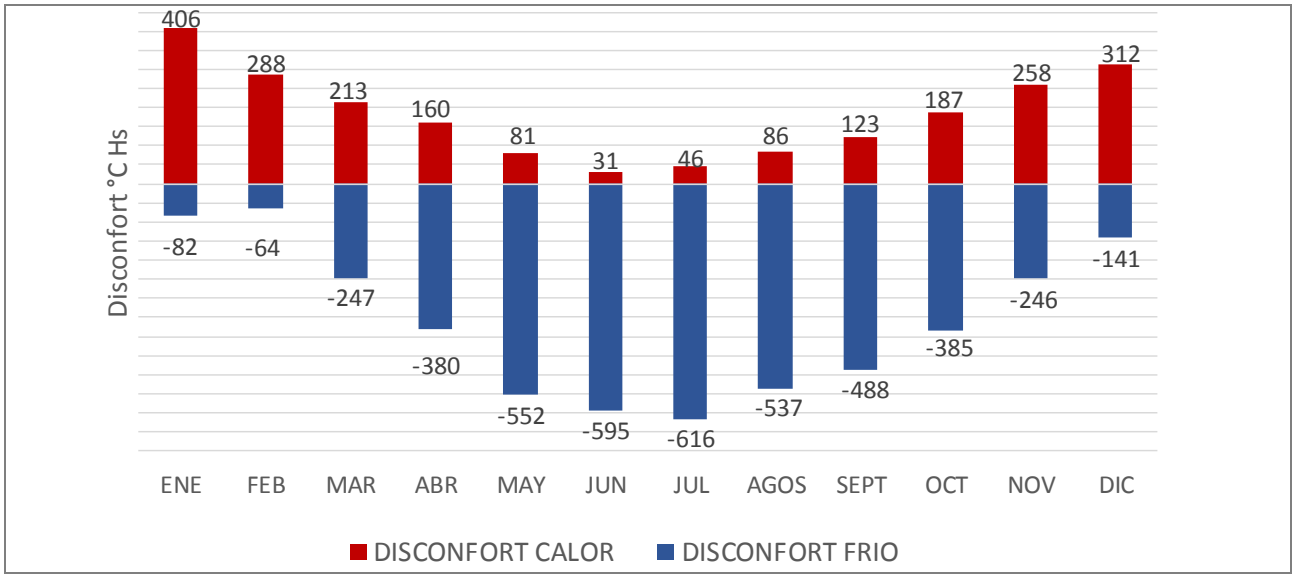




5,70 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,71

| VID-002 | MU | VIDRIO |
|---|---|---|

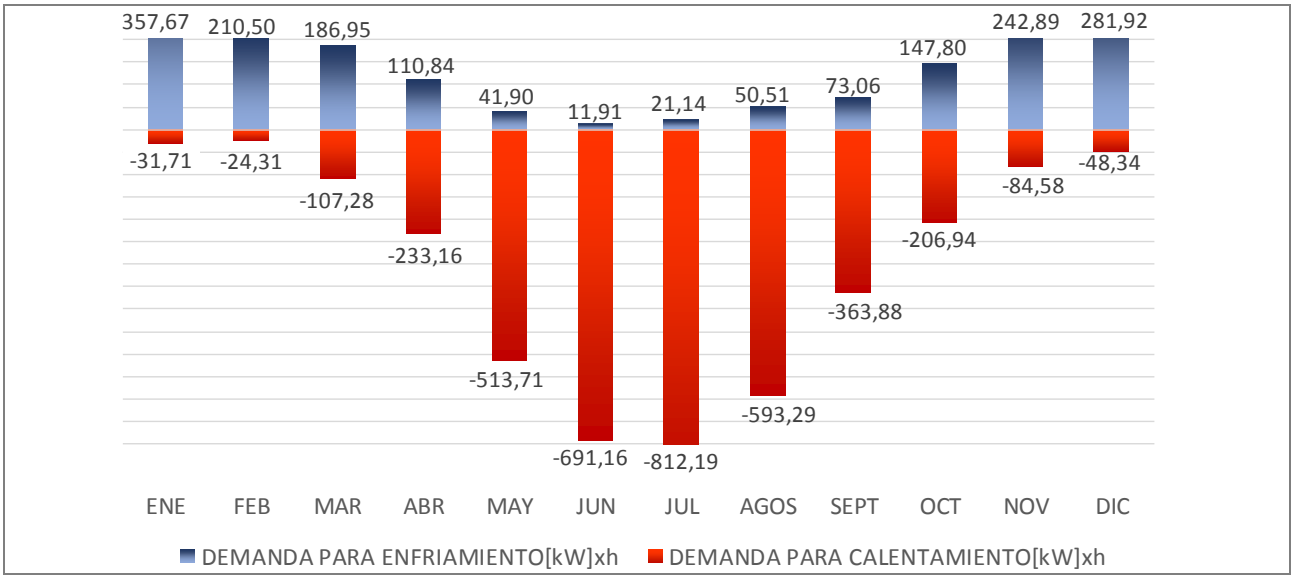
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **2.192** | °C Hs | 25% |
| HORAS DE DISCONFORT POR FRÍO | **4.333** | °C Hs | 49% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **6.525** | **°C Hs** | **74%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

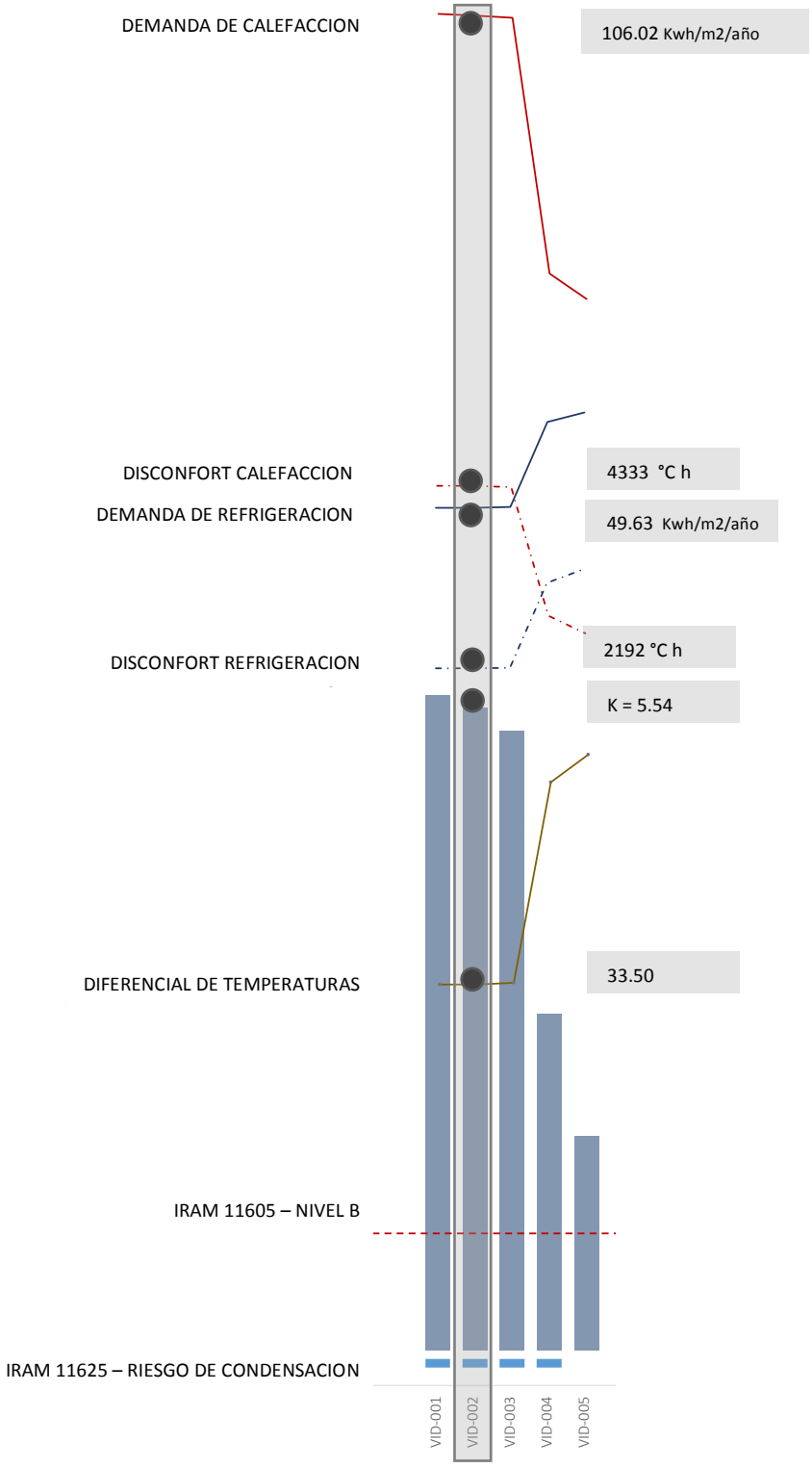



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **1.737,09** | kWh | 49,63 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **3.710,57** | kWh | 106,02 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **5.447,66** | kWh | **155,65** | kWh/m2/año |

| VID-002 | MU | VIDRIO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 195 | N° 006 | N° 195 | N° 192 | N° 006 | N° 192 |

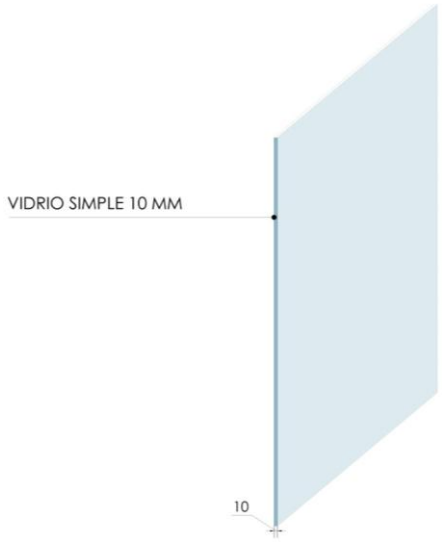



| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 4,26 | 67% | 41,04 | 85,86 | 56,41 | 3944 | 2468 |
| INDIVIDUAL | 5,54 | 100% | 33,50 | 106,02 | 49,63 | 4333,00 | 2192,00 |
| INC. FAMILIA | 130,17% | 150% | 81,63% | 123,49% | 87,98% | 109,86% | 88,82% |
| INC. MUNDIAL | 465,79% | 357% | 108,72% | 257,79% | 826,93% | 97,12% | 428,83% |

| VID-003 | MU | VIDRIO |
|---|---|---|
| VIDRIO SIMPLE ESPESOR 10 MM | | |

## INDICE DE TRANSMITANCIA TERMICA "K"

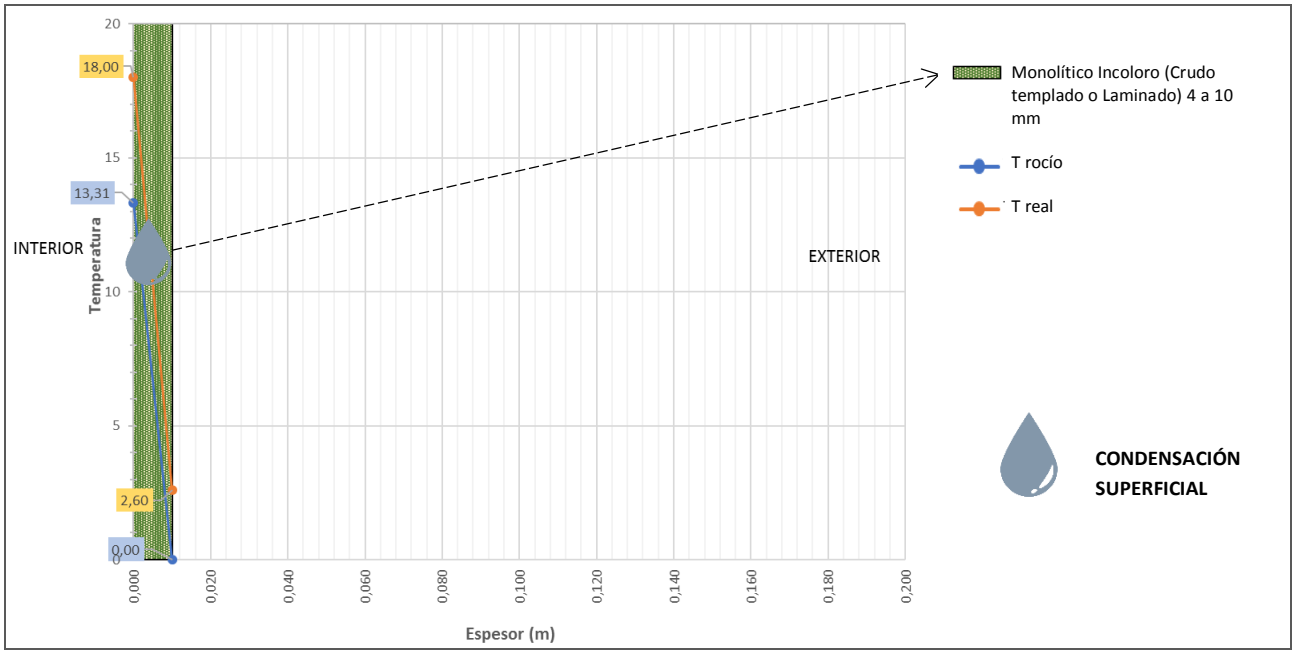
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 5,34 | 5,34 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



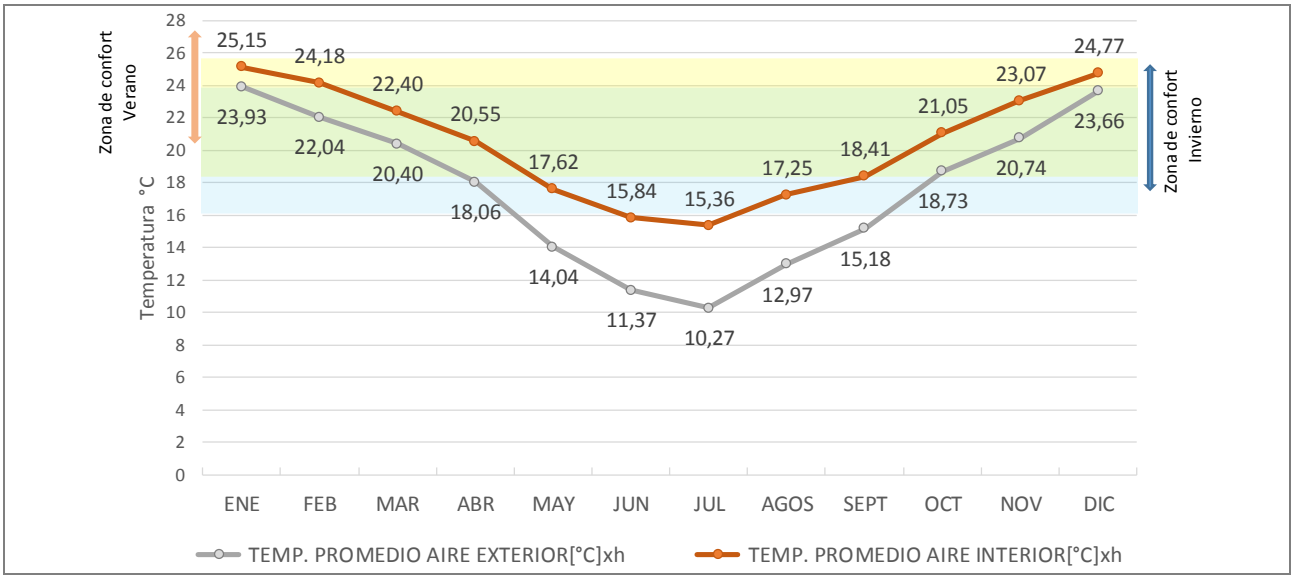

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | | 1,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | 1,000 | 1,000 |

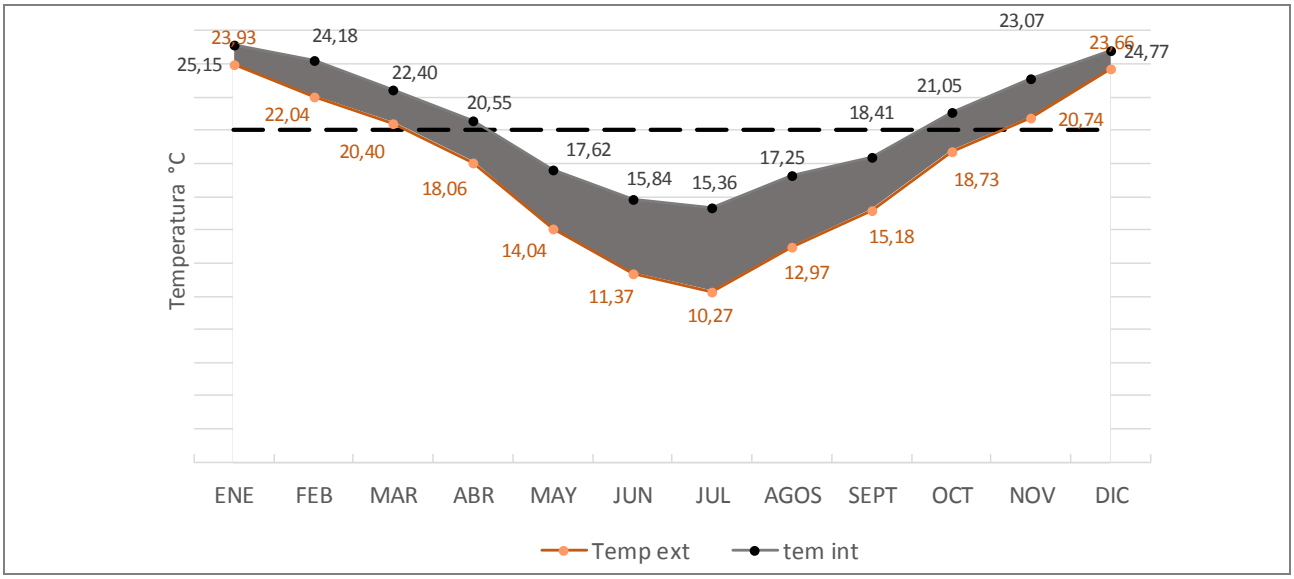
| VID-003 | MU | VIDRIO |
|---|---|---|

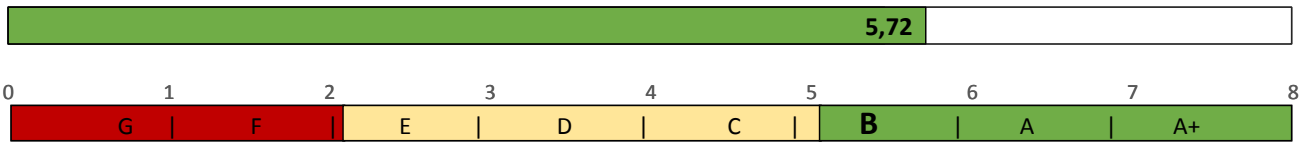
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 07/11 19:00 hs | **36,85** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 22/07 08:00 hs | **6,11** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



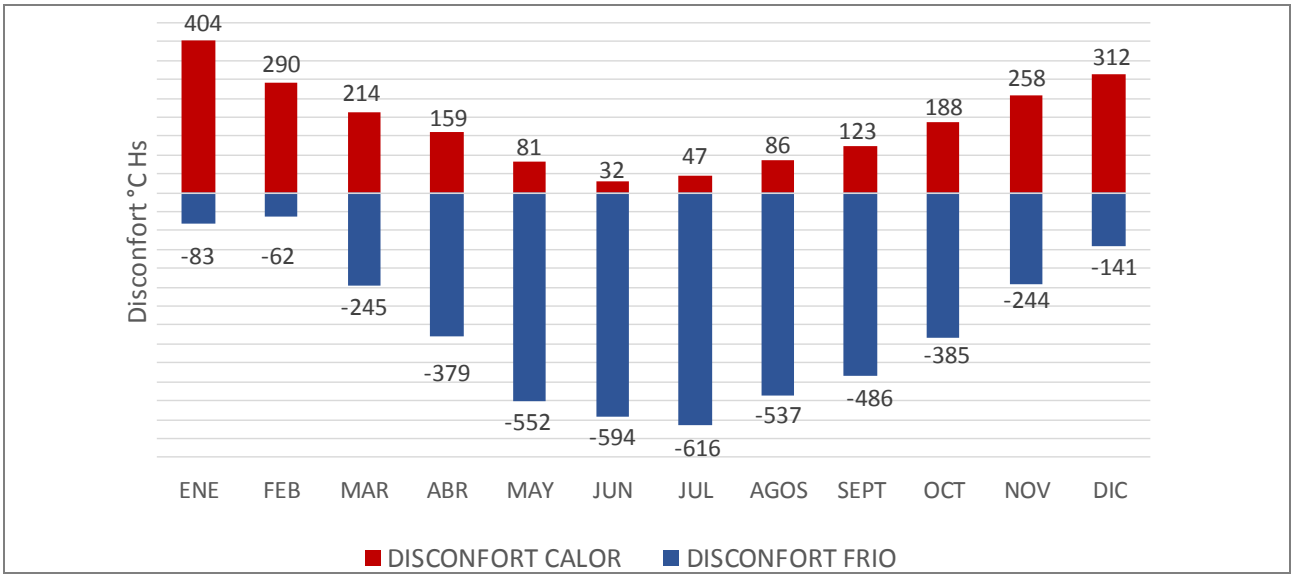




5,72 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,72

| VID-003 | MU | VIDRIO |
|---|---|---|

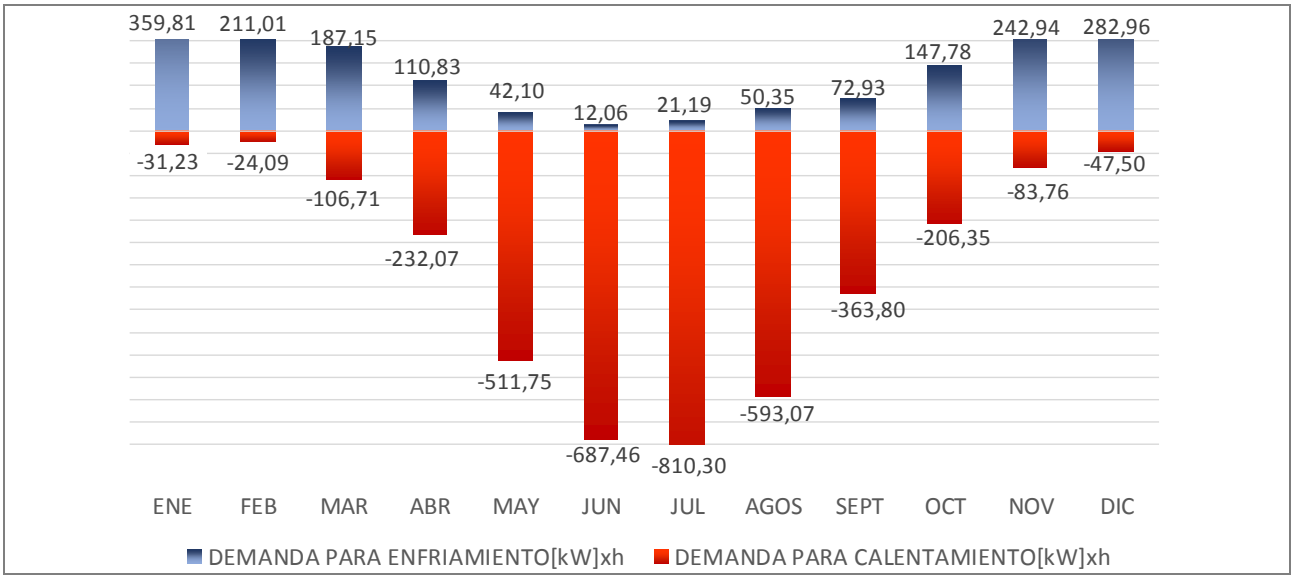
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **2.196** | °C Hs | 25% |
| HORAS DE DISCONFORT POR FRÍO | **4.325** | °C Hs | 49% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **6.521** | **°C Hs** | **74%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

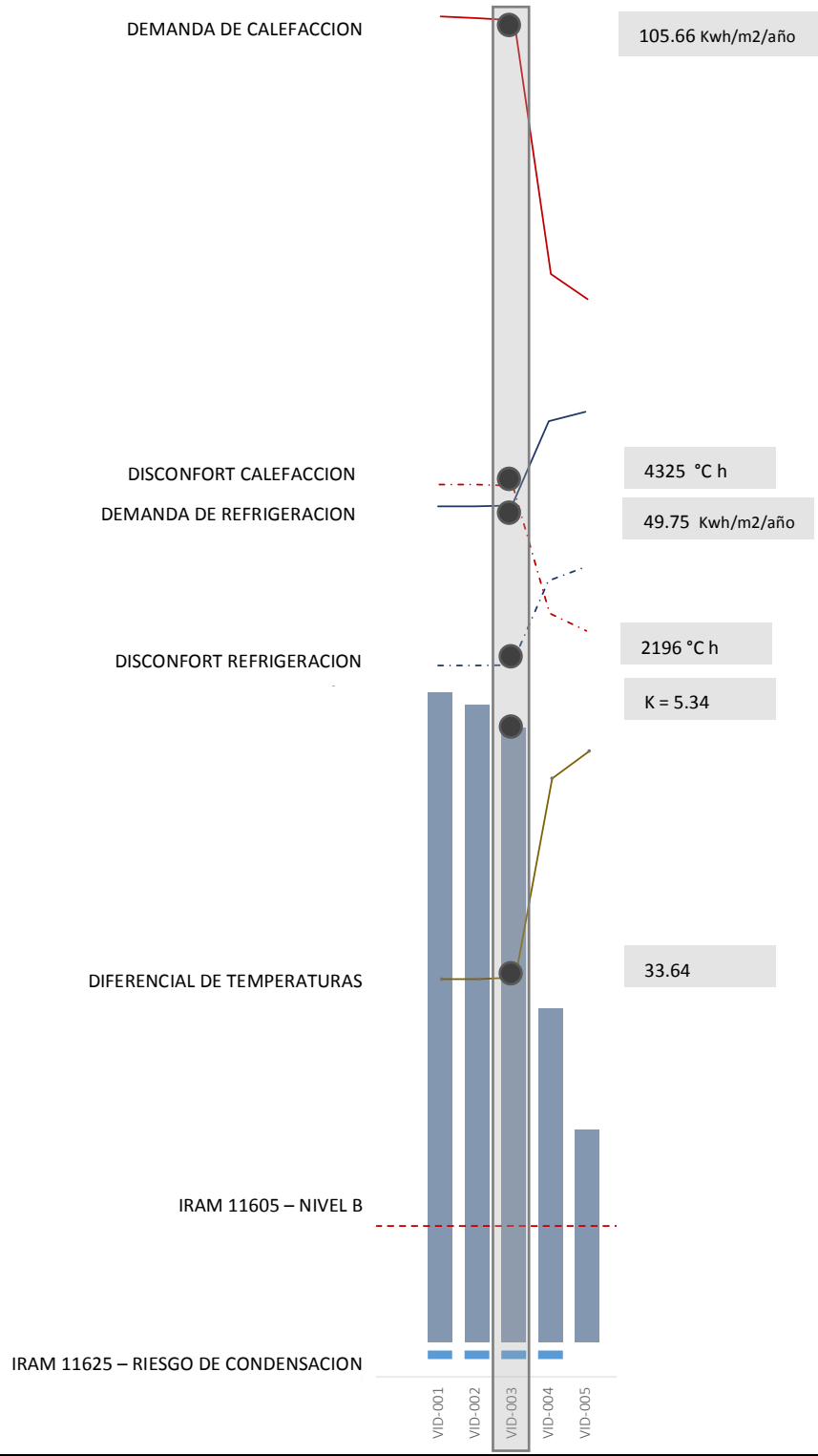



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **1.741,13** | kWh | 49,75 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **3.698,11** | kWh | 105,66 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **5.439,24** | kWh | **155,41** | kWh/m2/año |

| VID-003 | MU | VIDRIO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 194 | N° 004 | N° 197 | N° 193 | N° 004 | N° 194 |



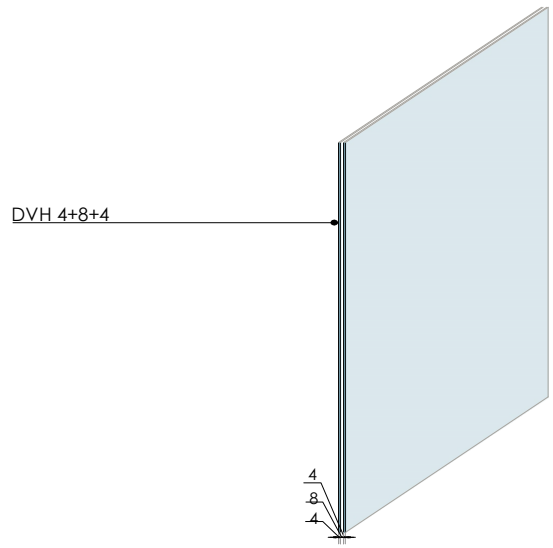

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 4,26 | 67% | 41,04 | 85,86 | 56,41 | 3944 | 2468 |
| INDIVIDUAL | 5,34 | 100% | 33,64 | 105,66 | 49,75 | 4325,00 | 2196,00 |
| INC. FAMILIA | 125,47% | 150% | 81,97% | 123,07% | 88,20% | 109,65% | 88,99% |
| INC. MUNDIAL | 448,97% | 357% | 109,17% | 256,92% | 828,93% | 96,94% | 429,62% |

| VID-004 | MU | VIDRIO |
|---|---|---|

DOBLE VIDRIADO HERMÉTICO (DVH) 4-9-4 (CON AIRE).

## INDICE DE TRANSMITANCIA TERMICA "K"

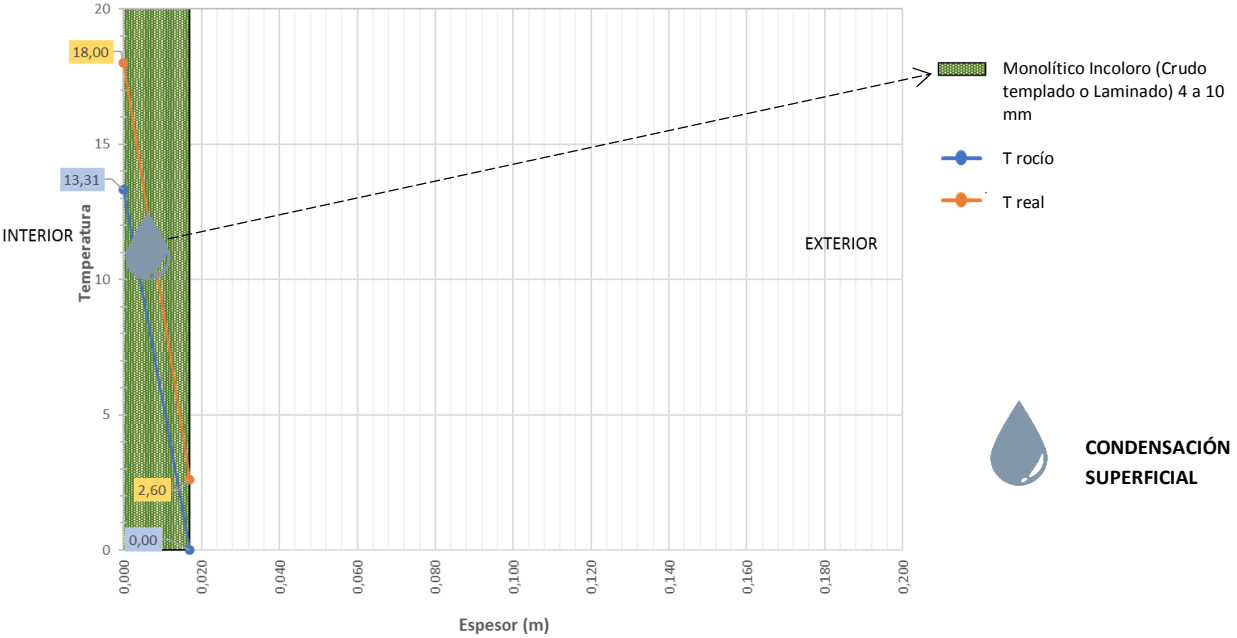
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 2,90 | 2,90 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



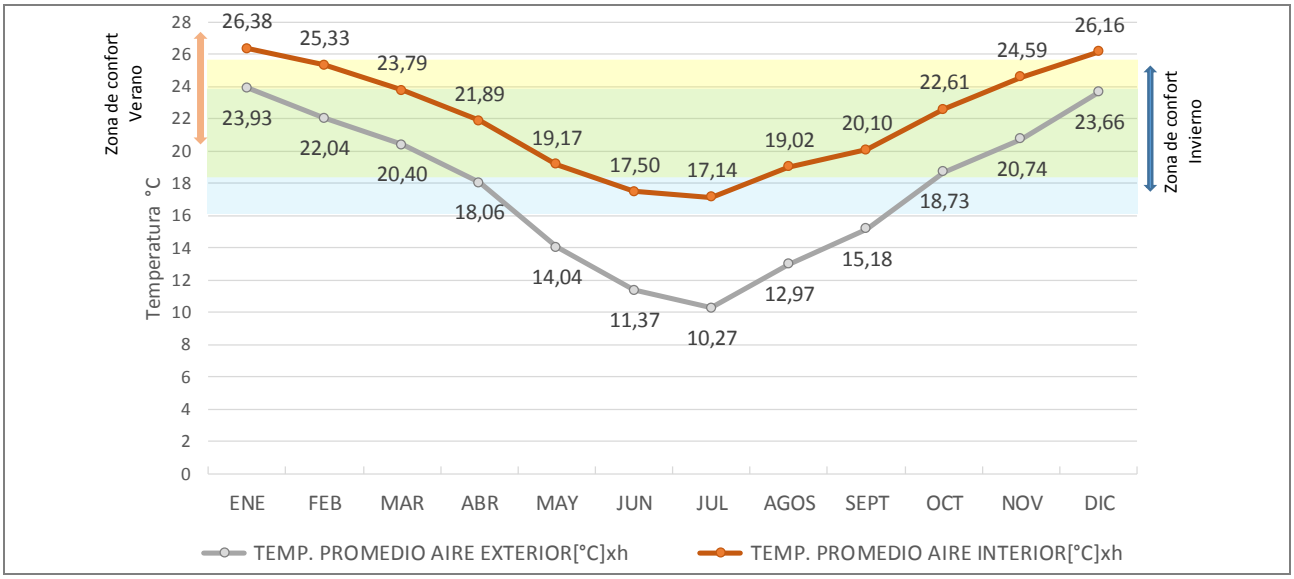

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | | 1,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | 1,000 | 1,000 |

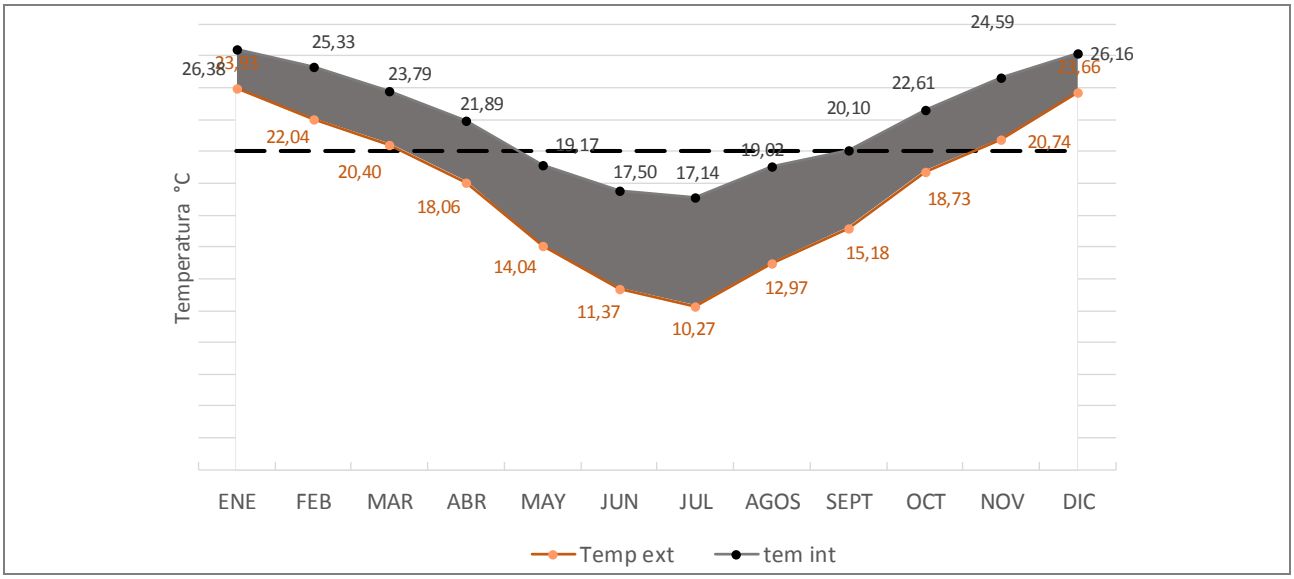
| VID-004 | MU | VIDRIO |
|---|---|---|

## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS

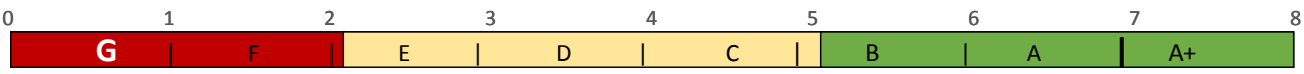



| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 07/11 17:00 hs | **37,81** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **8,88** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS




**0,10**

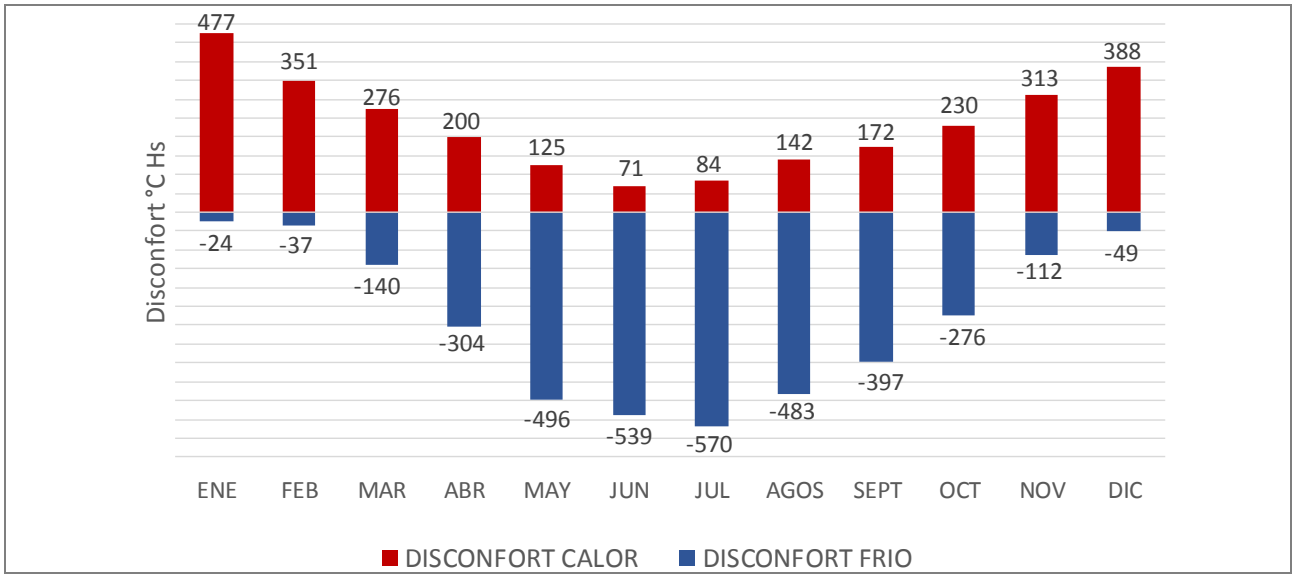



0,10 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): -0,09

| VID-004 | MU | VIDRIO |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

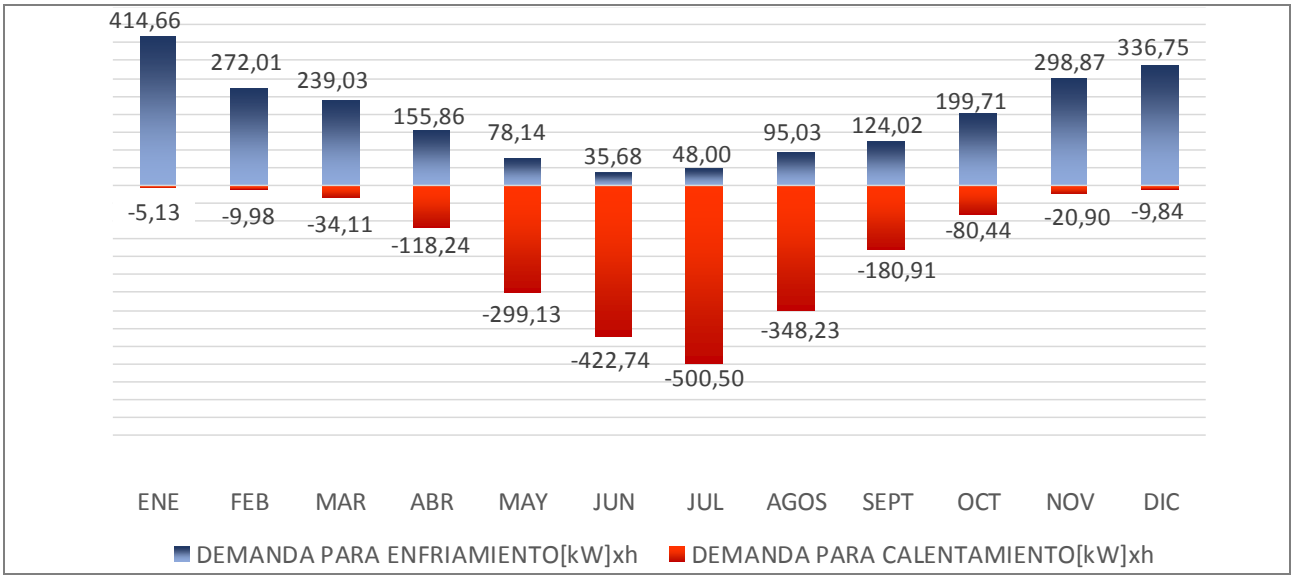
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **2.827** | °C Hs | 32% |
| HORAS DE DISCONFORT POR FRÍO | **3.427** | °C Hs | 39% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **6.254** | **°C Hs** | **71%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

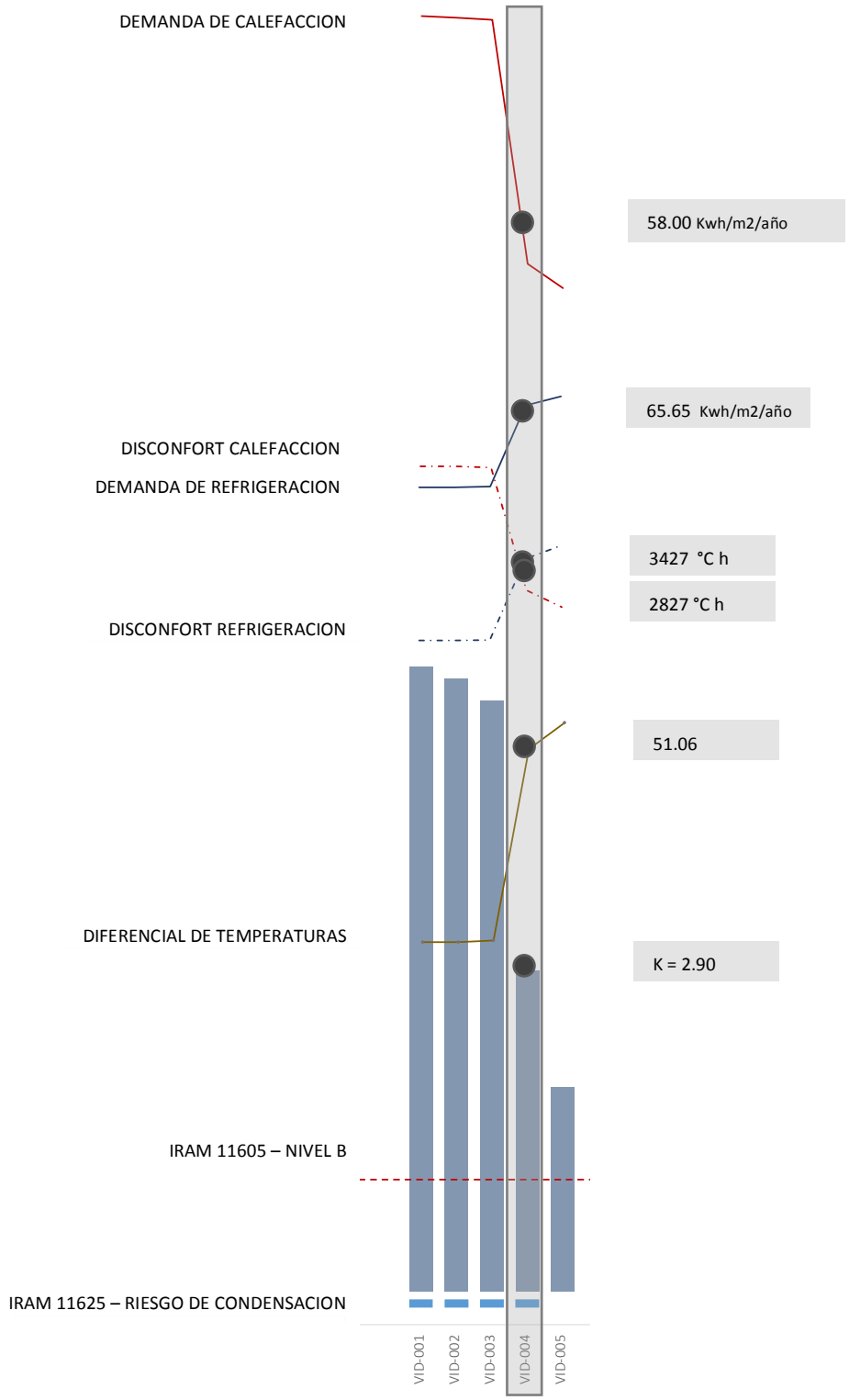



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **2.297,76** | kWh | 65,65 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **2.030,15** | kWh | 58,00 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **4.327,90** | kWh | **123,65** | kWh/m2/año |

| VID-004 | MU | VIDRIO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 191 | N° 002 | N° 187 | N° 194 | N° 003 | N° 195 |



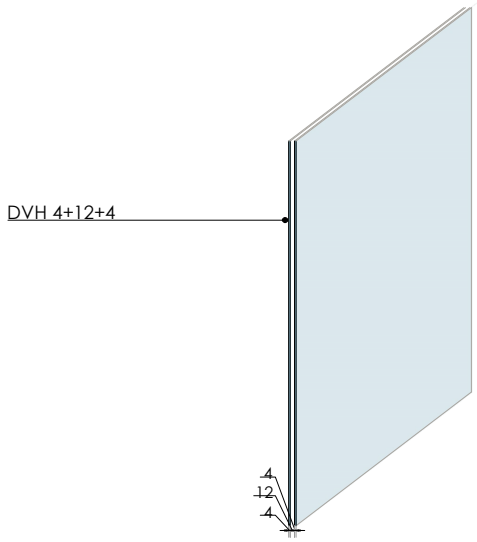

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 4,26 | 67% | 41,04 | 85,86 | 56,41 | 3944 | 2468 |
| INDIVIDUAL | 2,90 | 100% | 51,06 | 58,00 | 65,65 | 3427,00 | 2827,00 |
| INC. FAMILIA | 68,14% | 150% | 124,42% | 67,55% | 116,38% | 86,89% | 114,56% |
| INC. MUNDIAL | 243,82% | 357% | 165,70% | 141,03% | 1093,85% | 76,81% | 553,06% |

| VID-005 | MU | VIDRIO |
|---|---|---|

DOBLE VIDRIADO HERMÉTICO (DVH) 4-12-4 (CON AIRE).

## INDICE DE TRANSMITANCIA TERMICA "K"

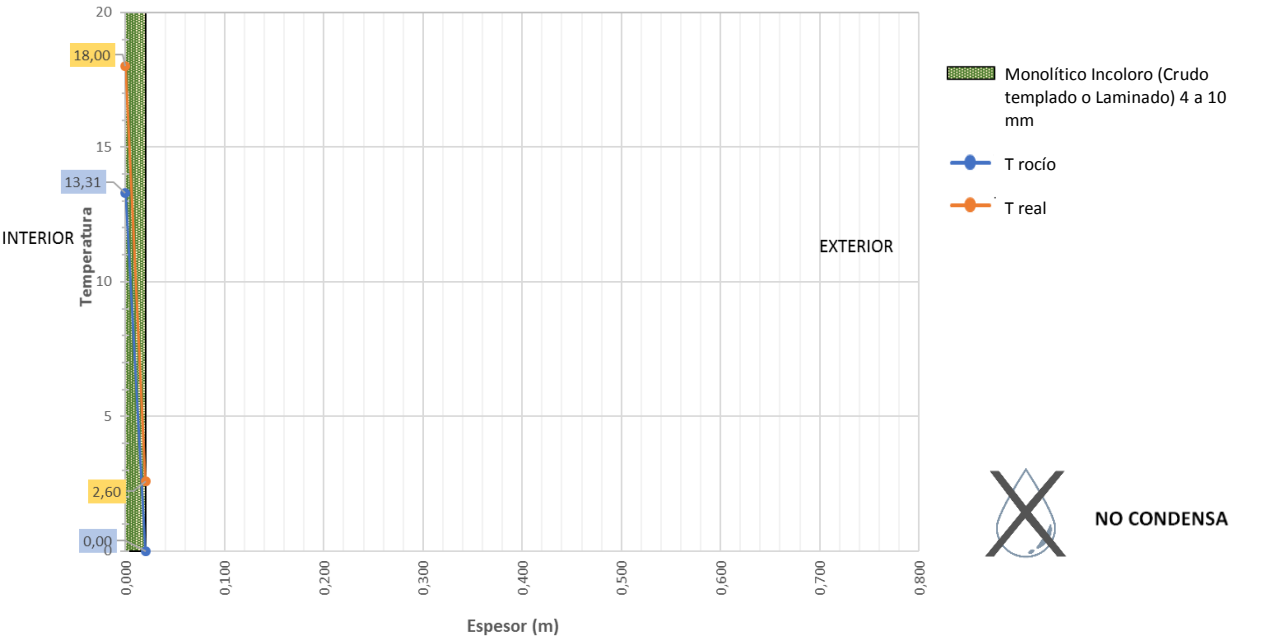
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,85 | 1,85 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



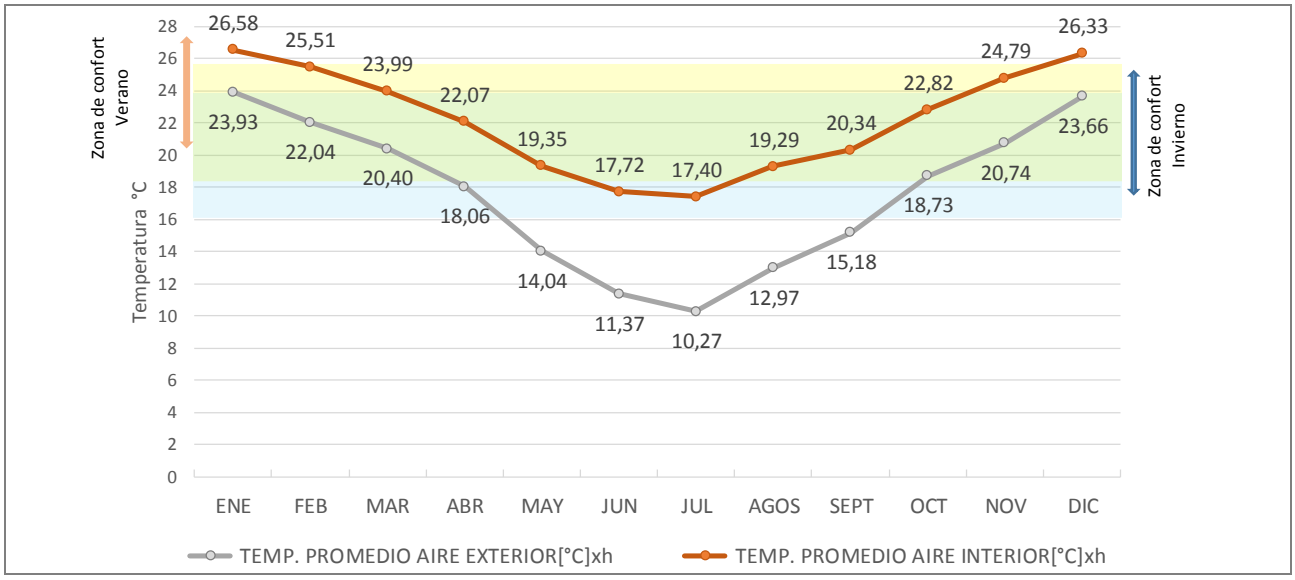

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | 1,000 | 1,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **2,7** | **2,2** |
| | **Amortiguamiento:** | 0,500 | 0,556 |

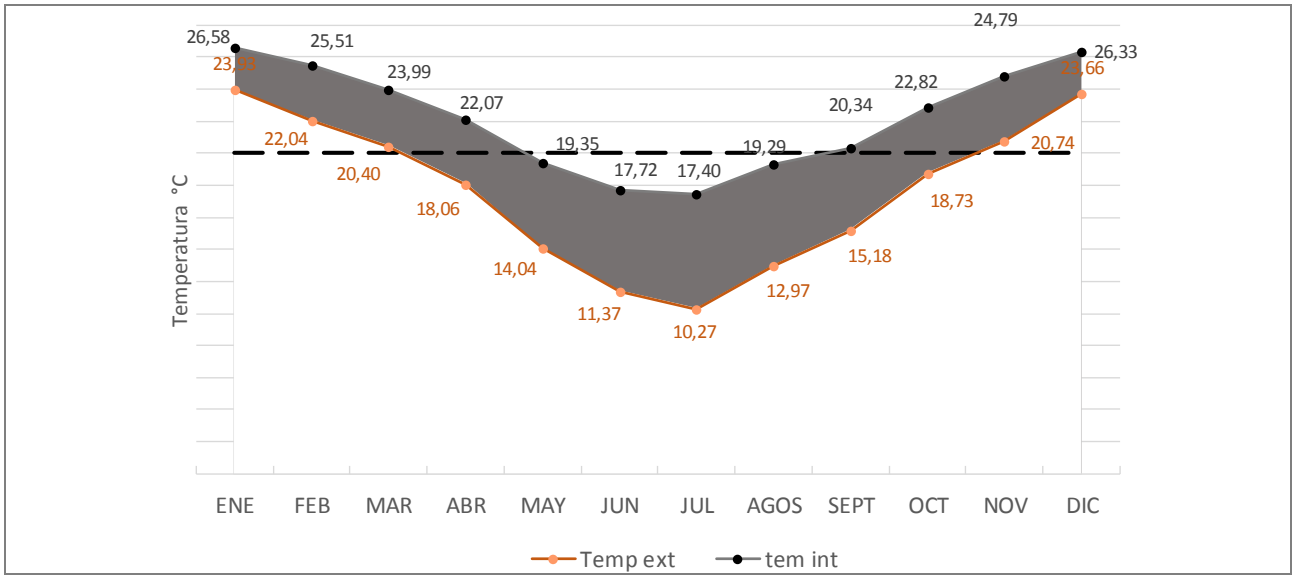
| VID-005 | MU | VIDRIO |
|---|---|---|

## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS

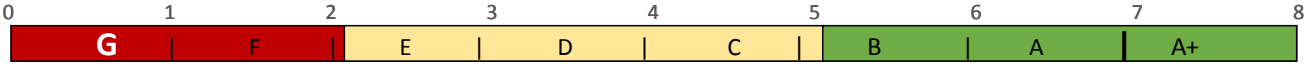



| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 07/11 17:00 hs | **37,90** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **9,26** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS




**0,10**

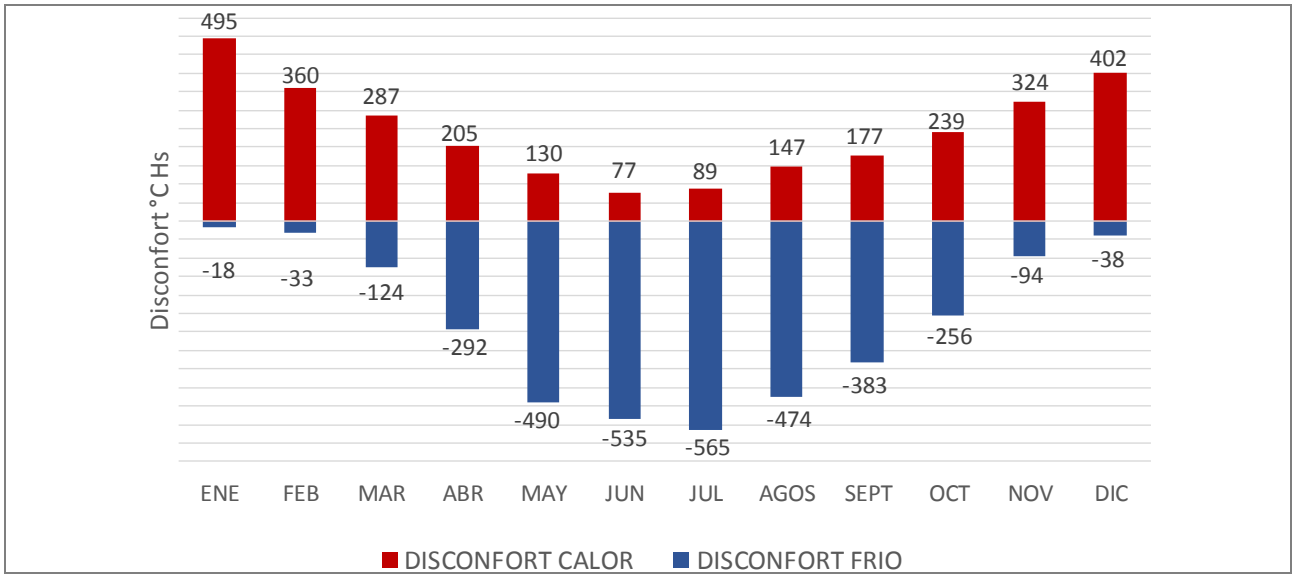



0,10 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): -0,14

| VID-005 | MU | VIDRIO |
|---|---|---|

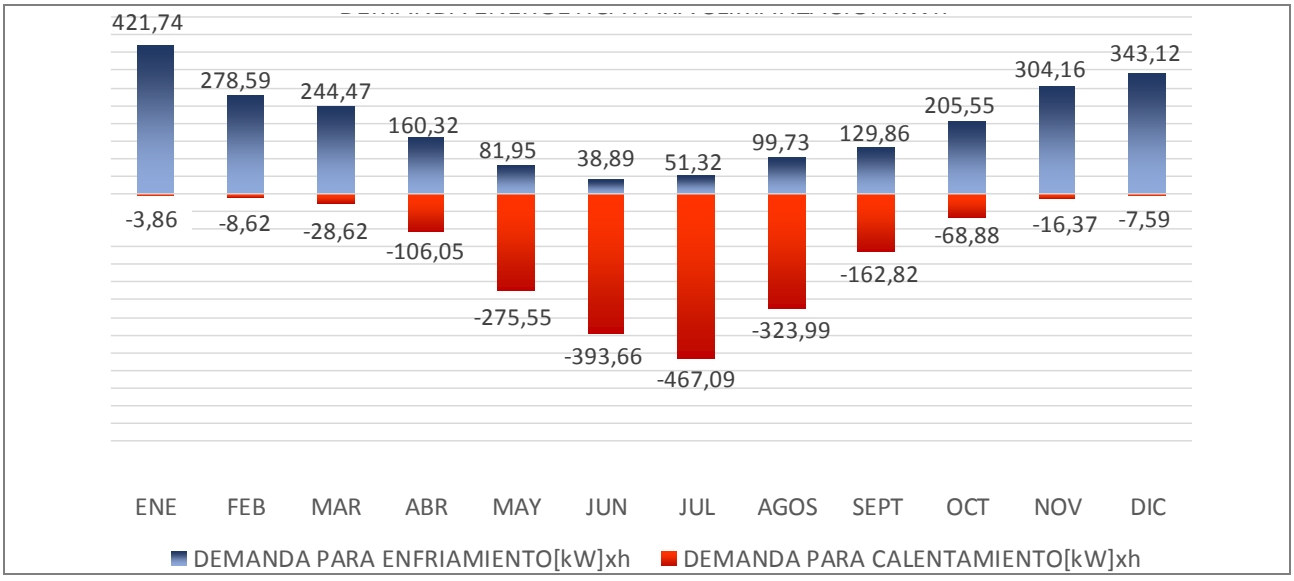
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **2.931** | °C Hs | 33% |
| HORAS DE DISCONFORT POR FRÍO | **3.303** | °C Hs | 38% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **6.234** | **°C Hs** | **71%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

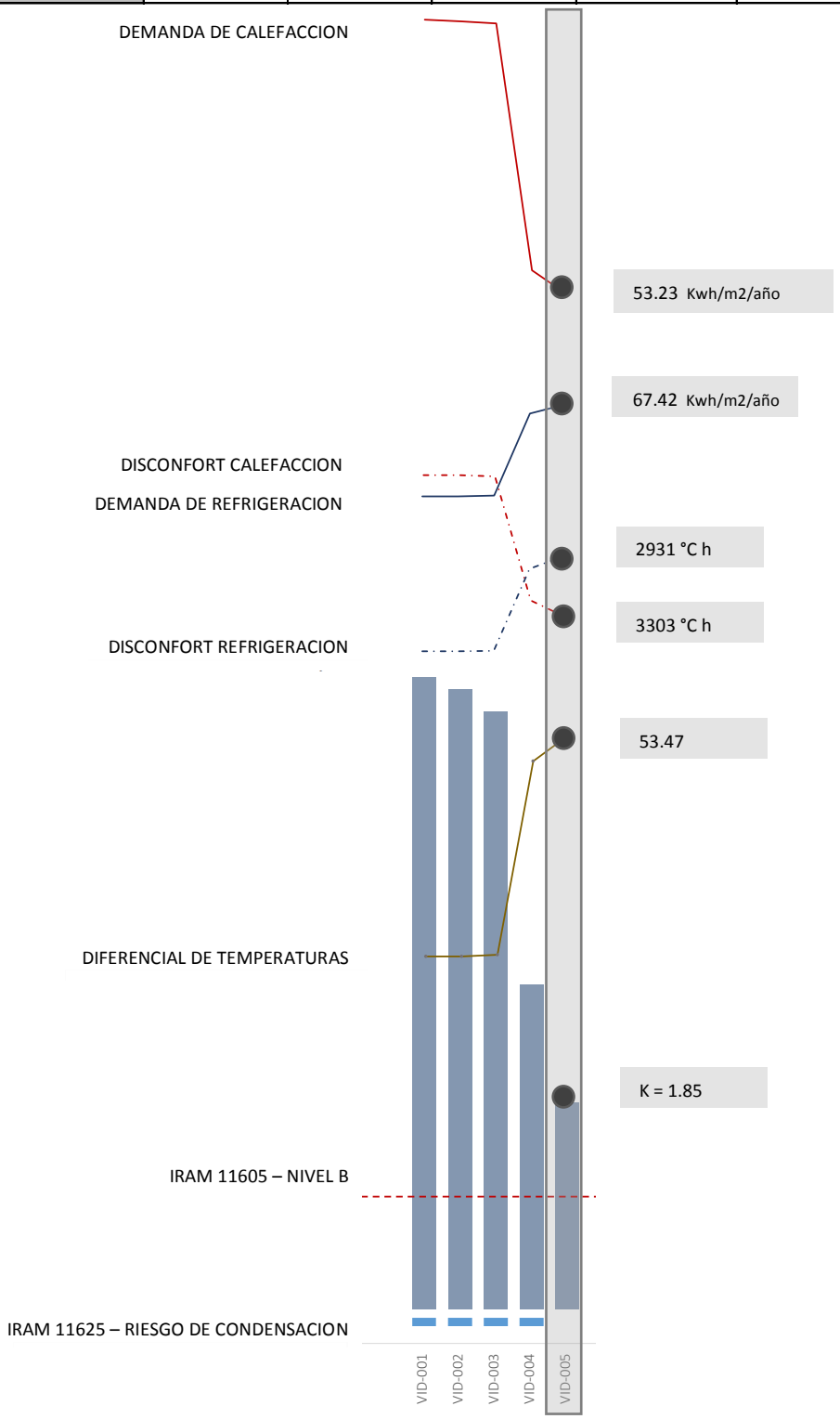



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **2.359,69** | kWh | 67,42 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.863,08** | kWh | 53,23 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **4.222,77** | kWh | **120,65** | kWh/m2/año |

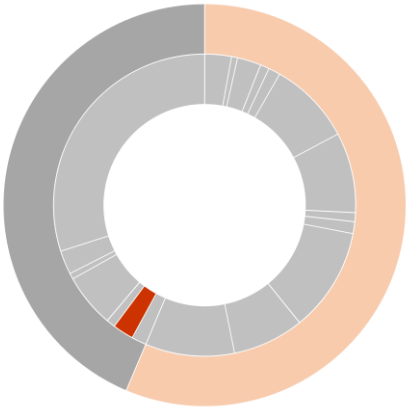
| VID-005 | MU | VIDRIO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 181 | N° 001 | N° 183 | N° 195 | N° 002 | N° 196 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 4,26 | 67% | 41,04 | 85,86 | 56,41 | 3944 | 2468 |
| INDIVIDUAL | 1,85 | 0% | 53,47 | 53,23 | 67,42 | 3303,00 | 2931,00 |
| INC. FAMILIA | 43,47% | 0% | 130,29% | 62,00% | 119,52% | 83,74% | 118,77% |
| INC. MUNDIAL | 155,54% | 0% | 173,53% | 129,43% | 1123,34% | 74,03% | 573,41% |



# MADERA

**MAD 001**: MURO DE TRONCOS DE MADERA

**MAD 002**: MURO DE MADERA MACIZA (BASA RECTA)

**MAD 003:** MADERA MACIZA CON REVOQUE INTERIOR

**MAD 004:** BLOQUES DE MADERA (PINO PONDEROSA) ENCASTRADOS - SISTEMA BME

**MAD 005:** CUBIERTA DE MADERA Y TEJAS

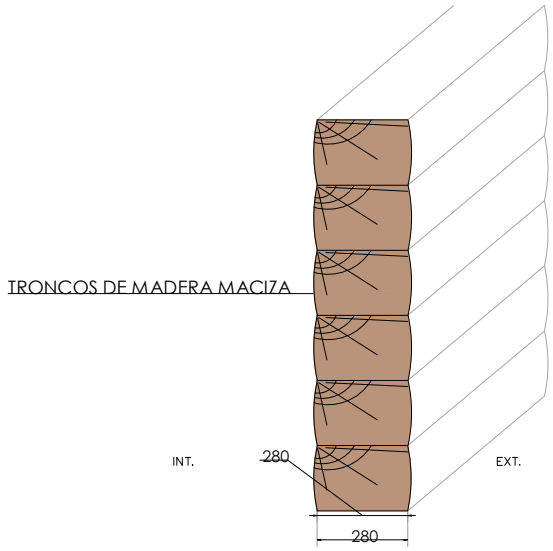
**MAD 006:** CUBIERTA DE MADERA Y CHAPA

**MAD 007:** ENTREPISO MADERA

| MAD-001 | MU | MADERA |
|---|---|---|
| MURO DE TRONCOS DE MADERA | | |

## INDICE DE TRANSMITANCIA TERMICA "K"

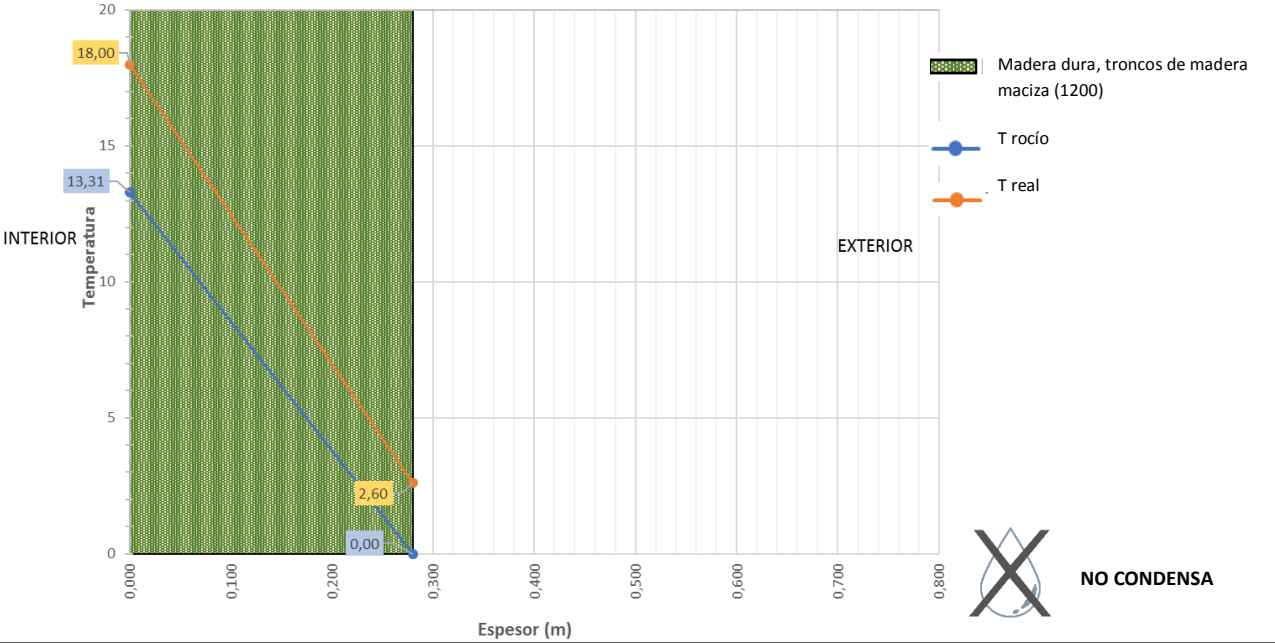
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,01 | 1,01 |
|---|---|
| verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



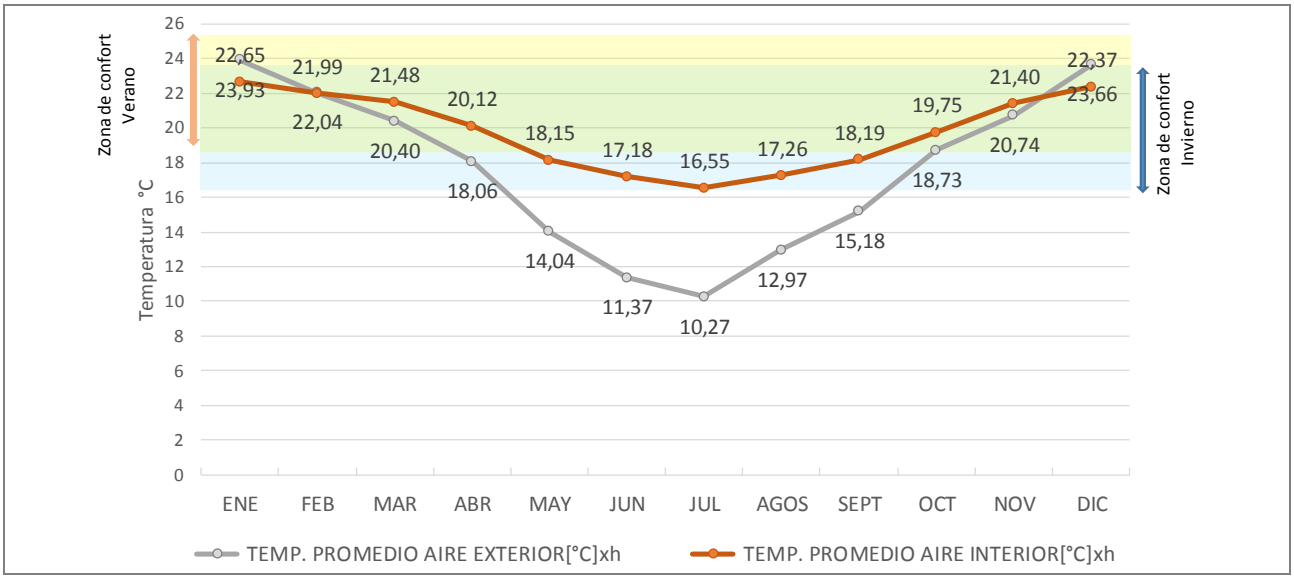

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| ADMISIVIDAD EQUIVALENTE | | | |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | |
| | **Amortiguamiento:** | | |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **15,5** | **14,2** |
| | **Amortiguamiento:** | 0,017 | 0,024 |

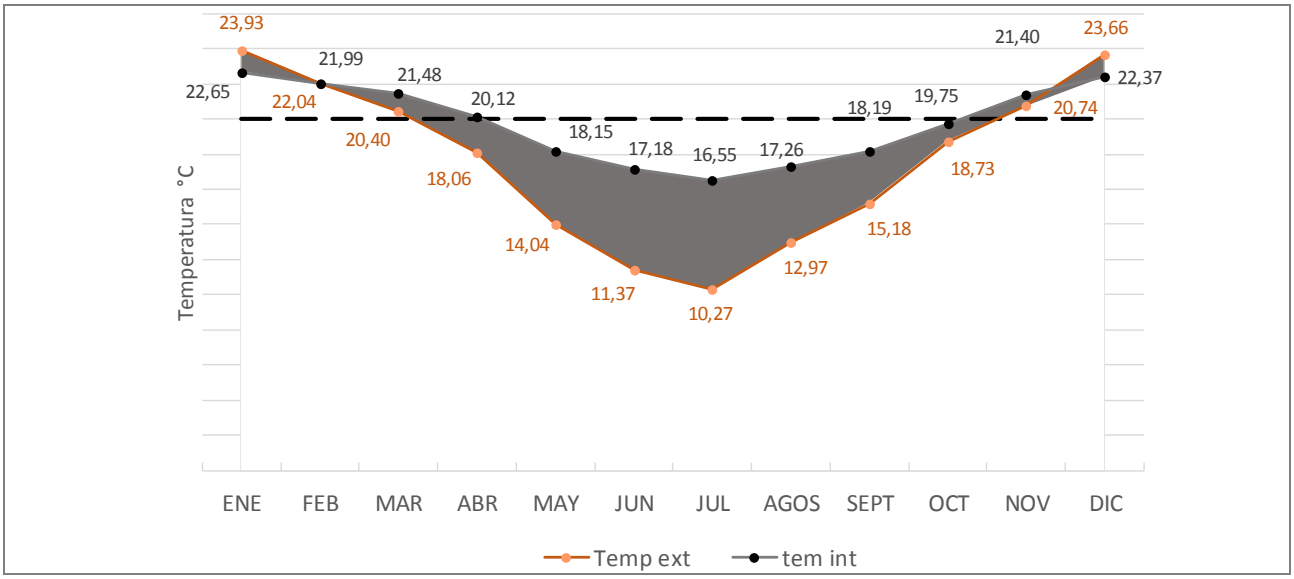
| MAD-001 | MU | MADERA |
|---|---|---|

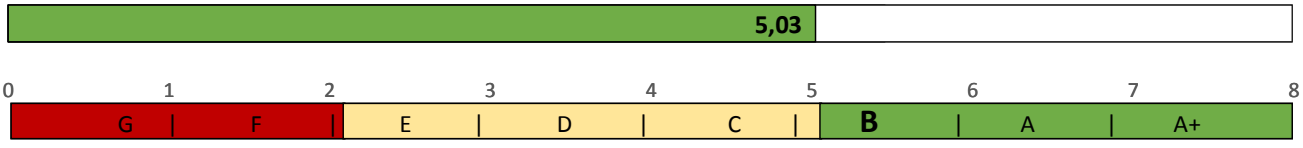
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,51** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **15,04** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



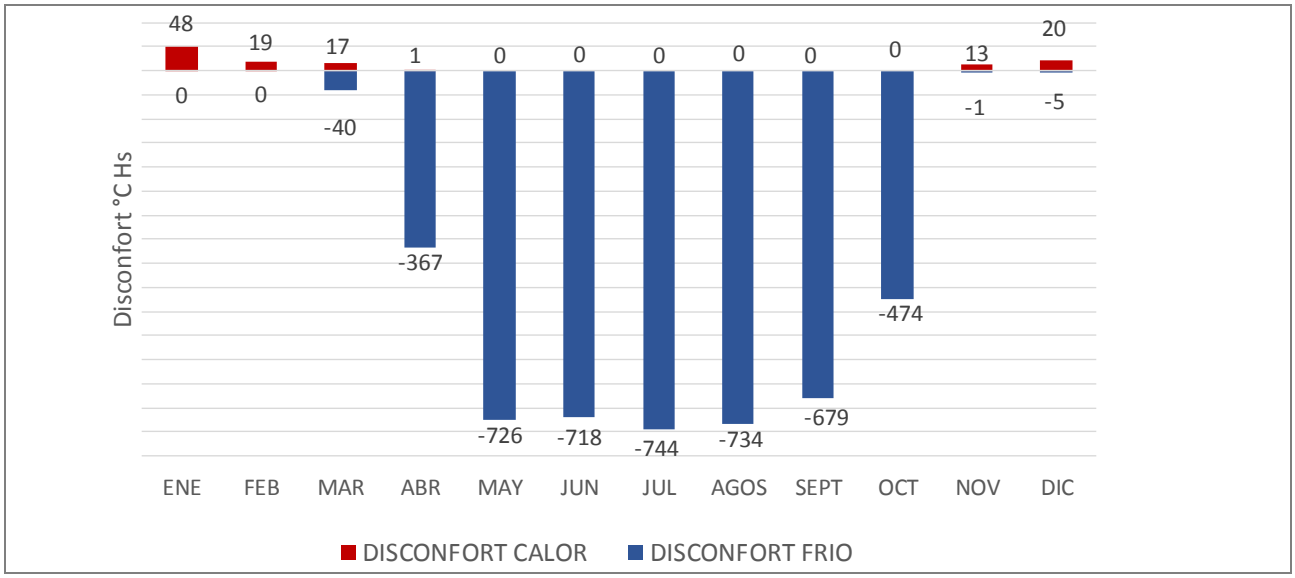




5,03 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| MAD-001 | MU | MADERA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

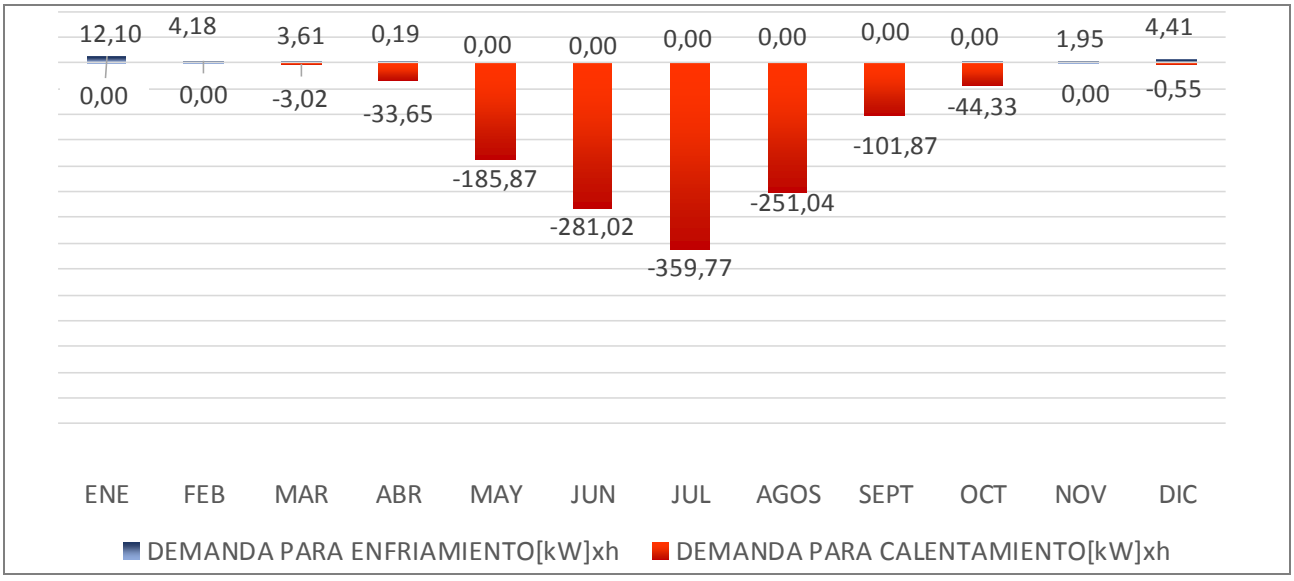
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **119** | °C Hs | 1% |
| HORAS DE DISCONFORT POR FRÍO | **4.487** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.606** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

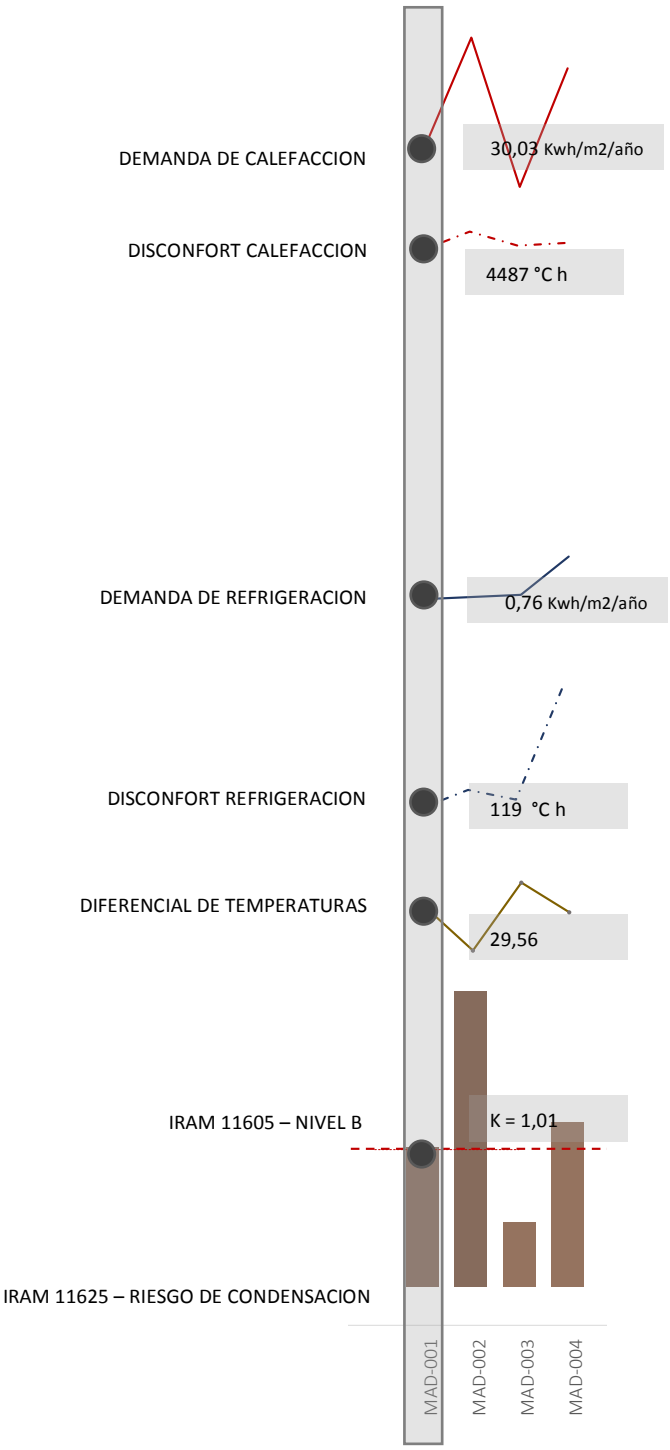



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **26,44** | kWh | 0,76 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.261,13** | kWh | 36,03 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.287,57** | kWh | **36,79** | kWh/m2/año |

| MAD-001 | MU | MADERA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 168 | N° 169 | N° 157 | N° 003 | N° 040 | N° 103 |



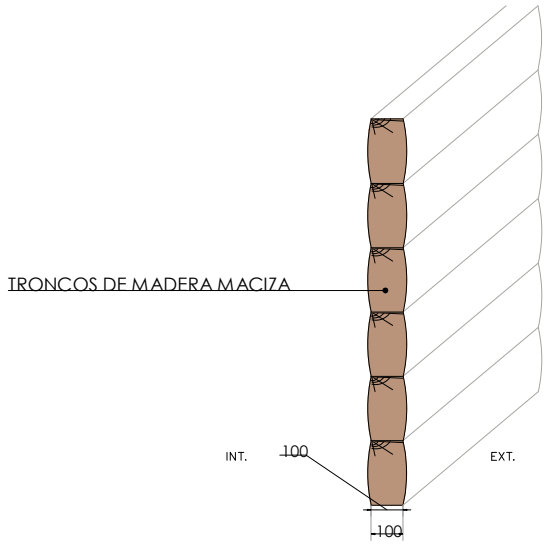

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,21 | 0% | 29,12 | 42,20 | 2,65 | 4534 | 359 |
| INDIVIDUAL | 1,01 | 0% | 29,56 | 36,03 | 0,76 | 4487 | 119 |
| INC. FAMILIA | 83,47% | 0% | 101,50% | 85,38% | 28,68% | 98,97% | 33,19% |
| INC. MUNDIAL | 84,92% | 0% | 95,93% | 87,61% | 12,66% | 100,57% | 23,28% |

| MAD-002 | MU | MADERA |
|---|---|---|

MURO DE MADERA MACIZA (BASA RECTA)

## INDICE DE TRANSMITANCIA TERMICA "K"

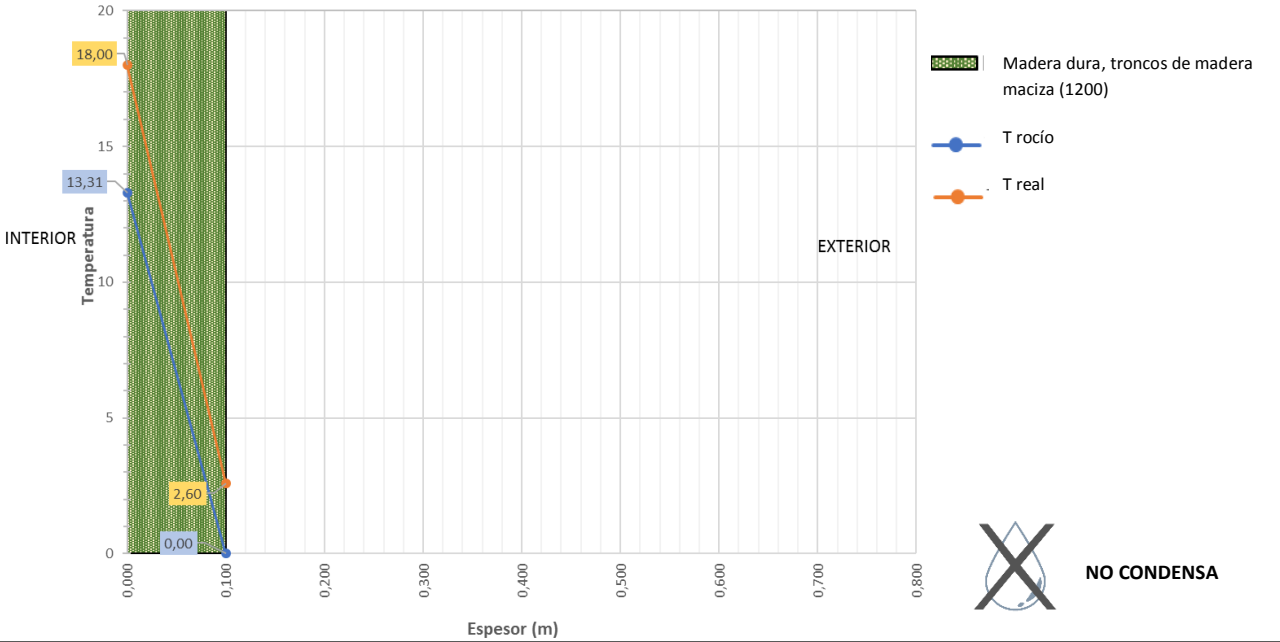
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 2,15 | 2,15 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



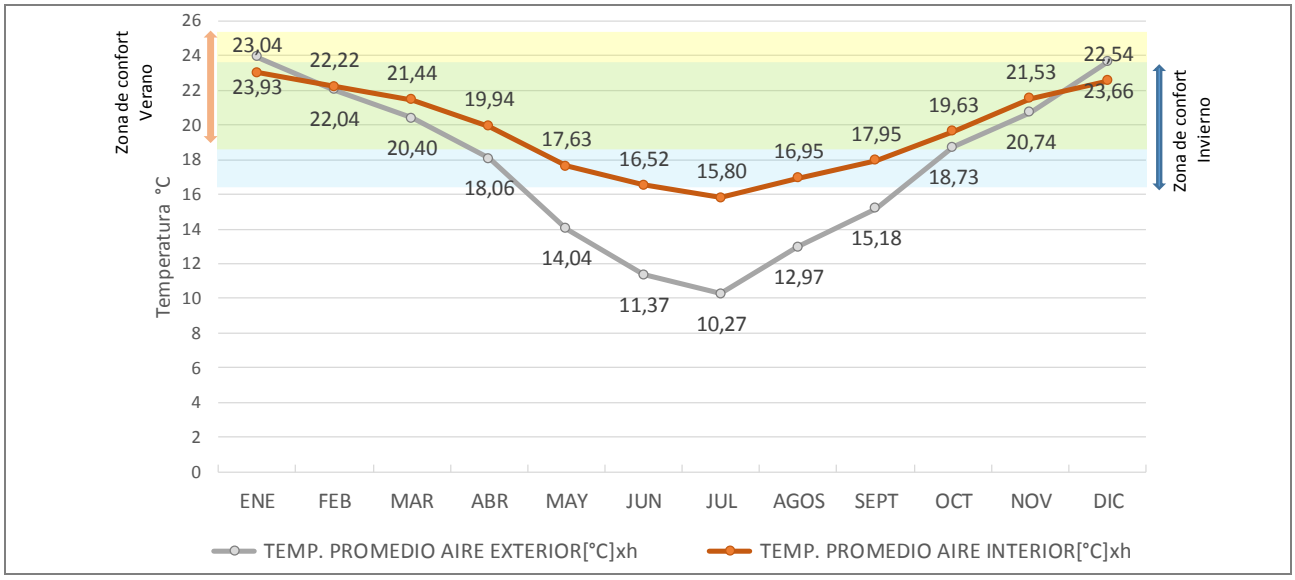

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano | Invierno 10,2 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | **1,3** |
| | **Amortiguamiento:** | 0,153 | 0,712 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,6** | **5,5** |
| | **Amortiguamiento:** | 0,176 | 0,240 |

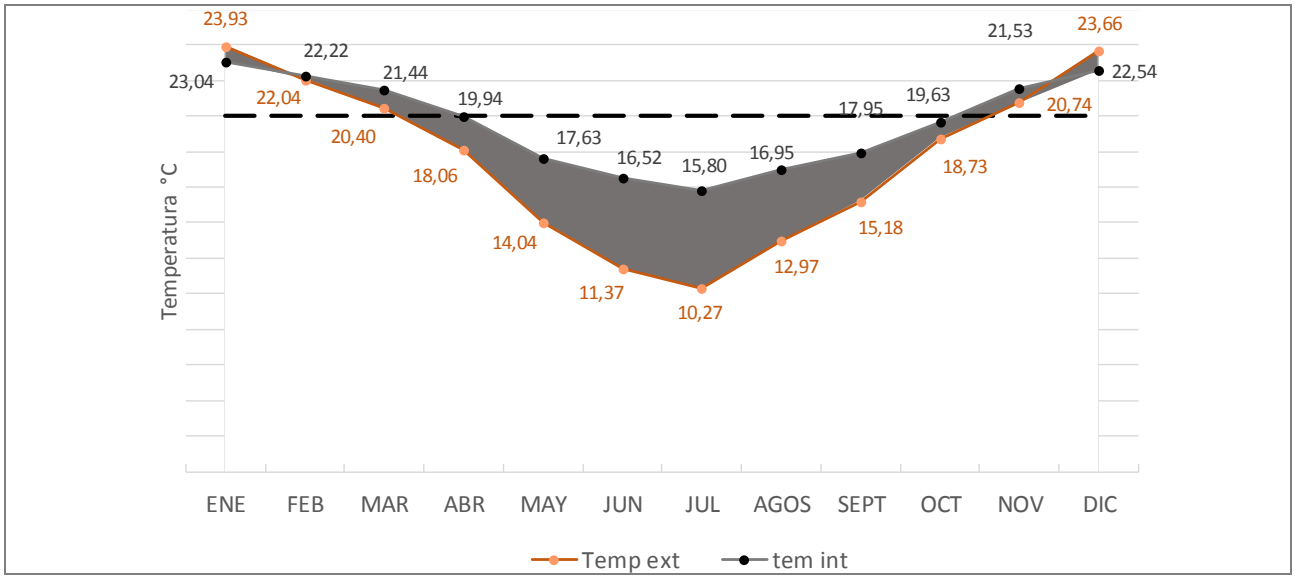
| MAD-002 | MU | MADERA |
|---|---|---|

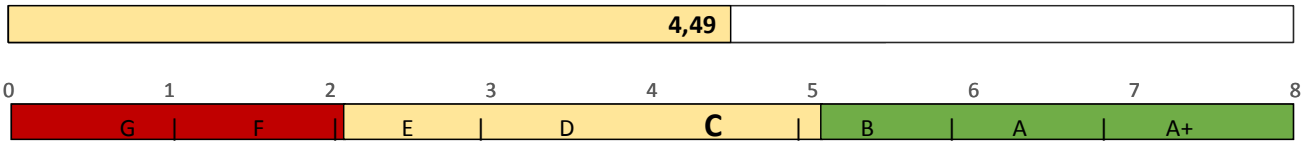
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **25,61** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 27/07 07:00 hs | **13,69** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



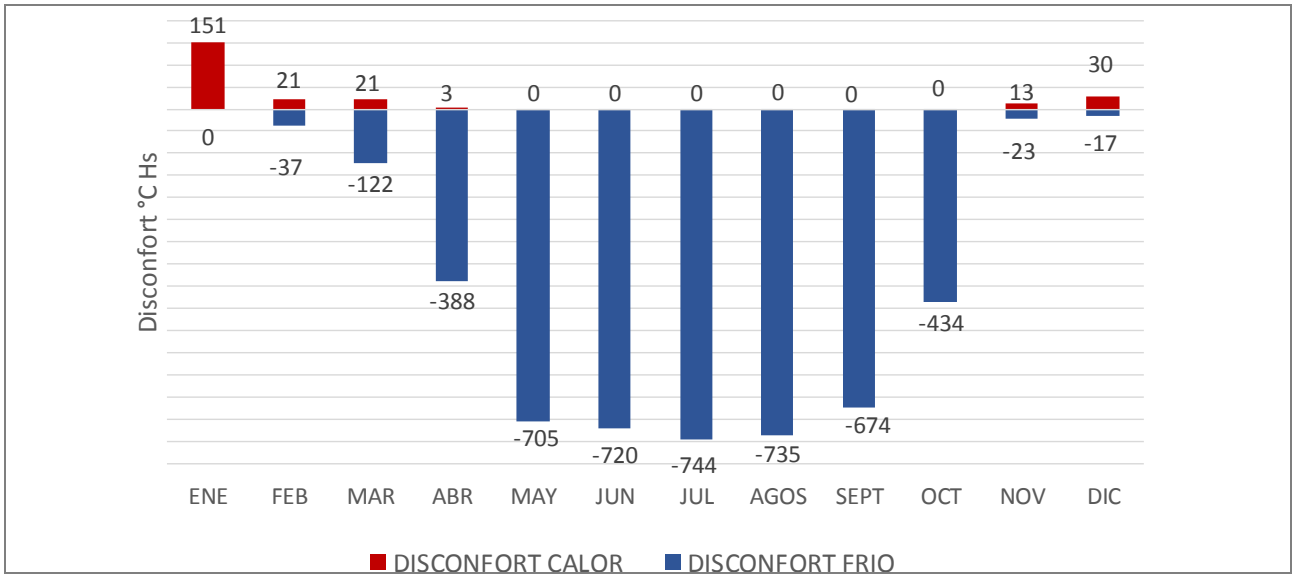




4,49 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,56

| MAD-002 | MU | MADERA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

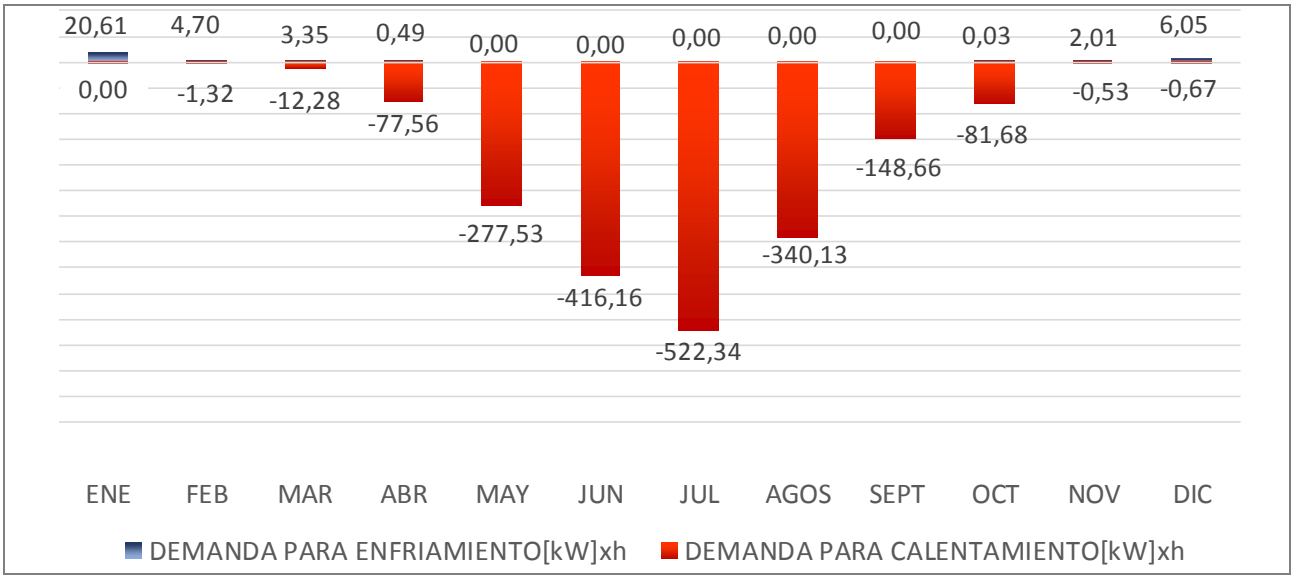
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **238** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.599** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.837** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

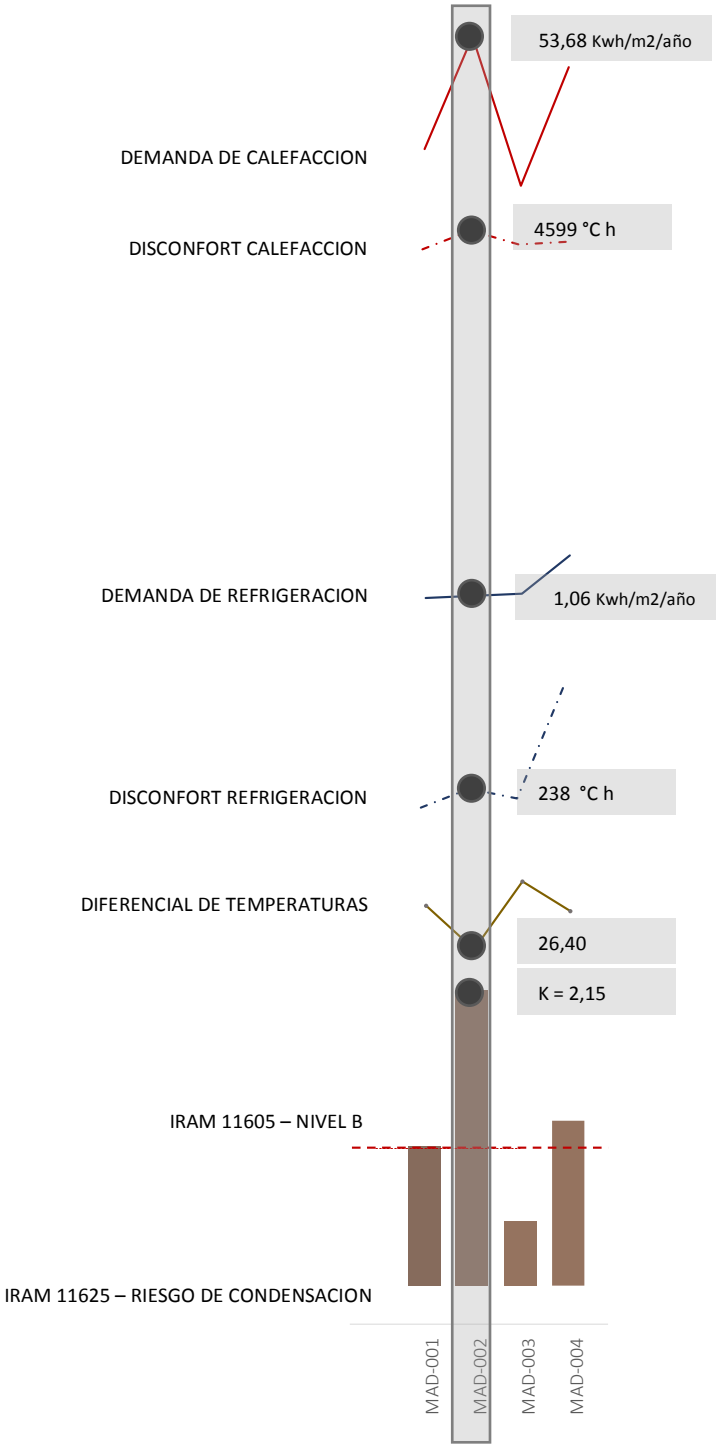



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **37,25** | kWh | 1,06 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.878,88** | kWh | 53,68 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.916,13** | kWh | **54,75** | kWh/m2/año |

| MAD-002 | MU | MADERA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 186 | N° 196 | N° 184 | N° 033 | N° 072 | N° 104 |



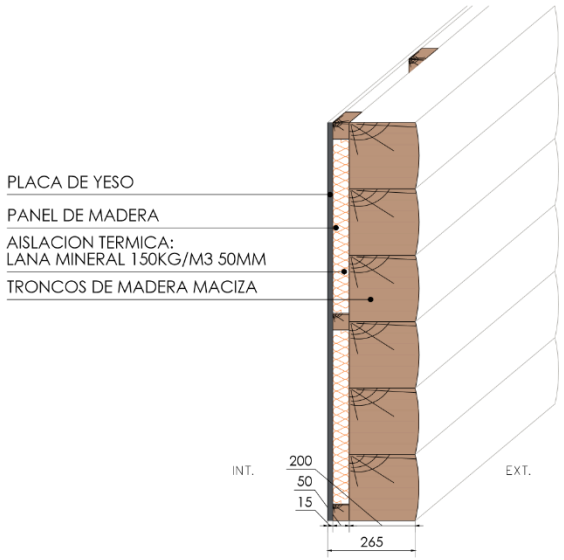

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,21 | 0% | 29,12 | 42,20 | 2,65 | 4534 | 359 |
| INDIVIDUAL | 2,15 | 0% | 26,40 | 53,68 | 1,06 | 4599,00 | 238,00 |
| INC. FAMILIA | 177,69% | 0% | 90,65% | 127,21% | 40,00% | 101,44% | 66,39% |
| INC. MUNDIAL | 180,77% | 0% | 85,68% | 130,53% | 17,66% | 103,08% | 46,56% |

| MAD-003 | MU | MADERA |
|---|---|---|

MADERA MACIZA CON REVOQUE INTERIOR

## INDICE DE TRANSMITANCIA TERMICA "K"

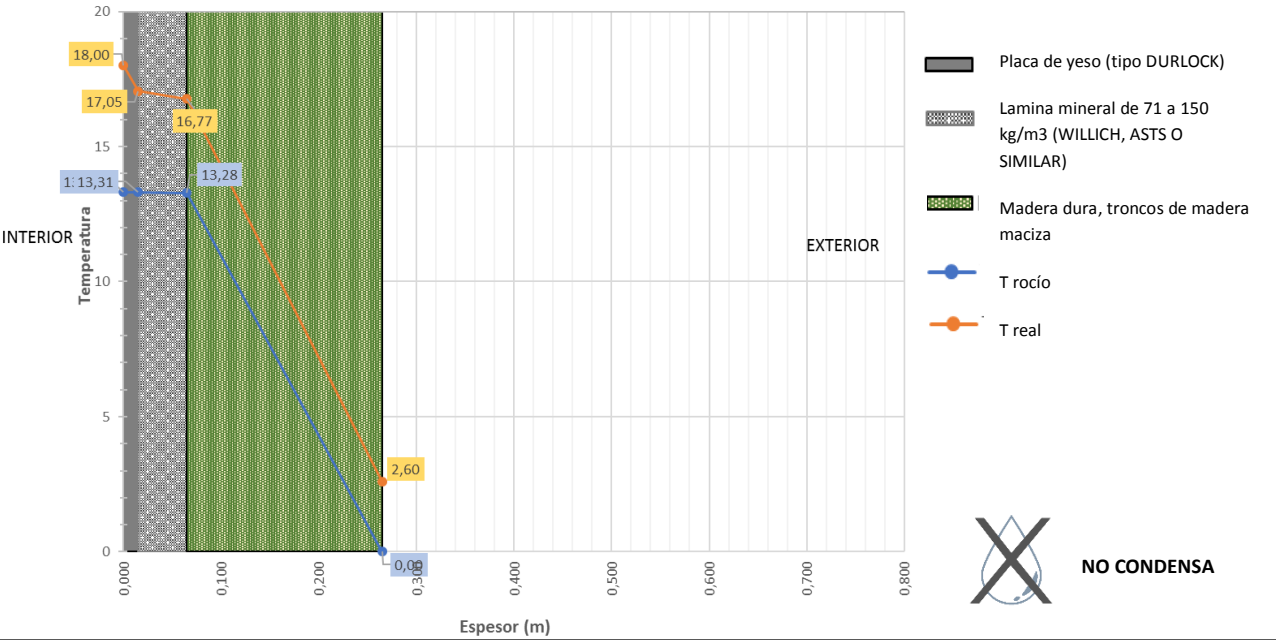
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,47 | 0,47 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



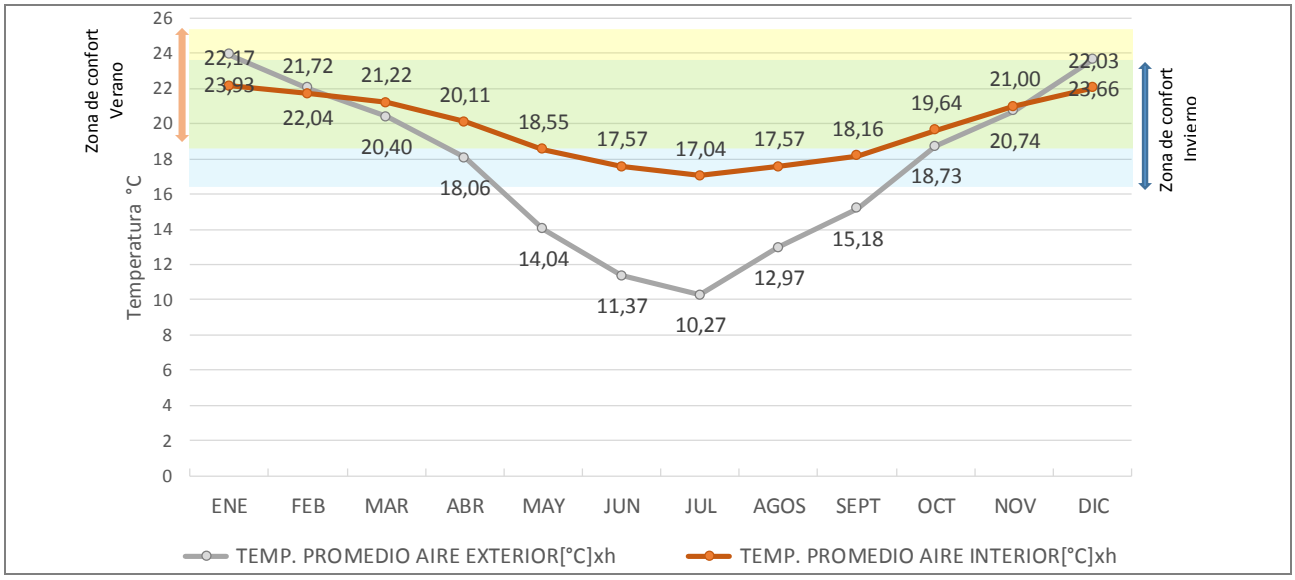

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 94,3 | Invierno 1,9 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **26,1** | **3,7** |
| | **Amortiguamiento:** | 0,000 | 0,255 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **23,8** | **10,9** |
| | **Amortiguamiento:** | 0,002 | 0,058 |

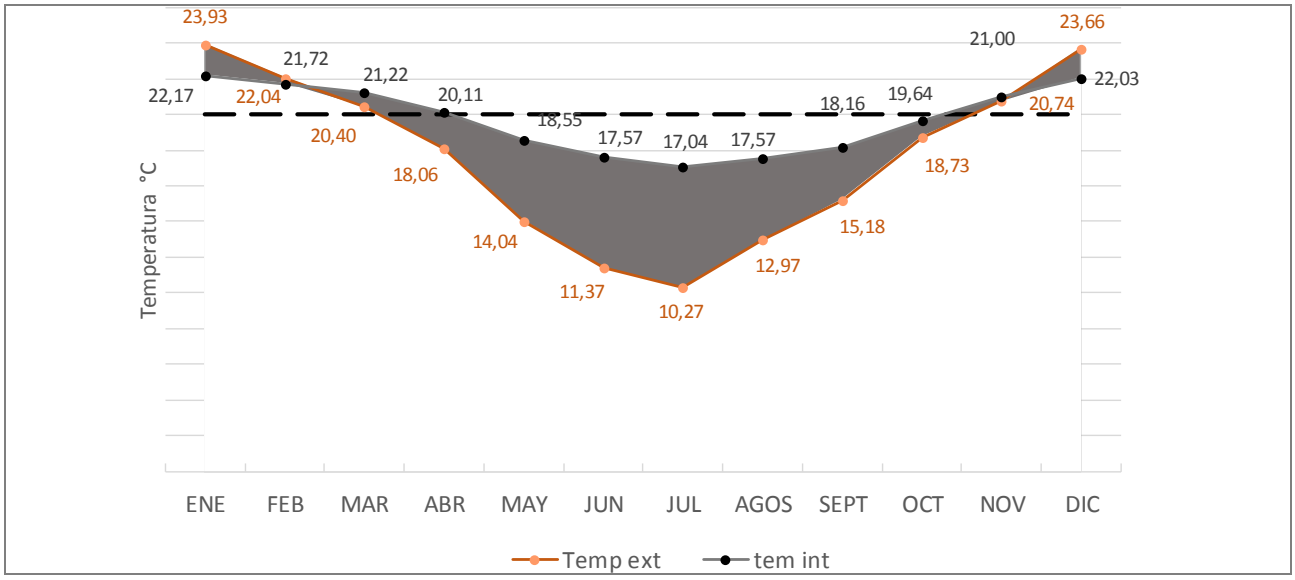
| MAD-003 | MU | MADERA |
|---|---|---|

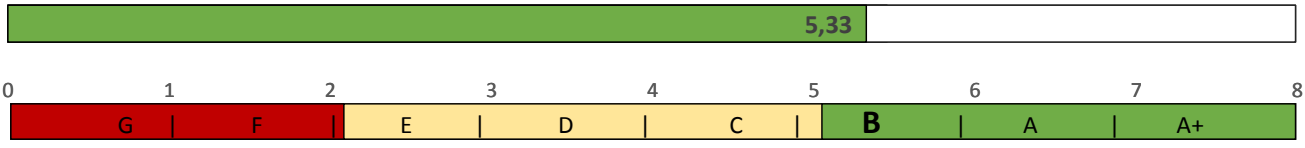
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **24,30** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **15,31** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



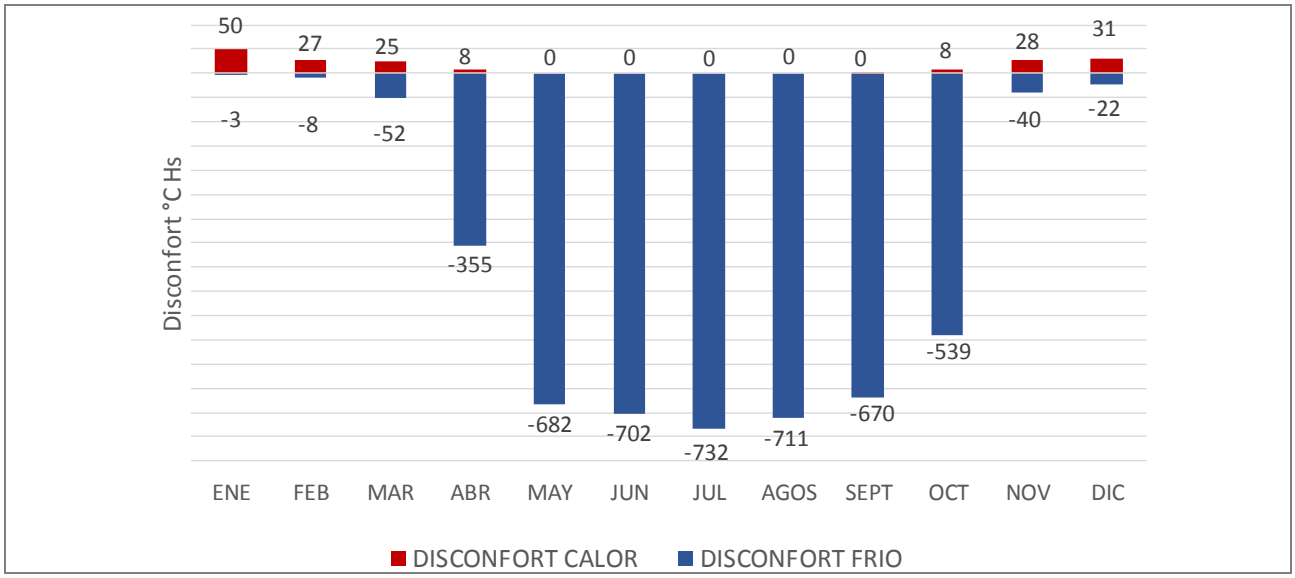




5,33 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| MAD-003 | MU | MADERA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

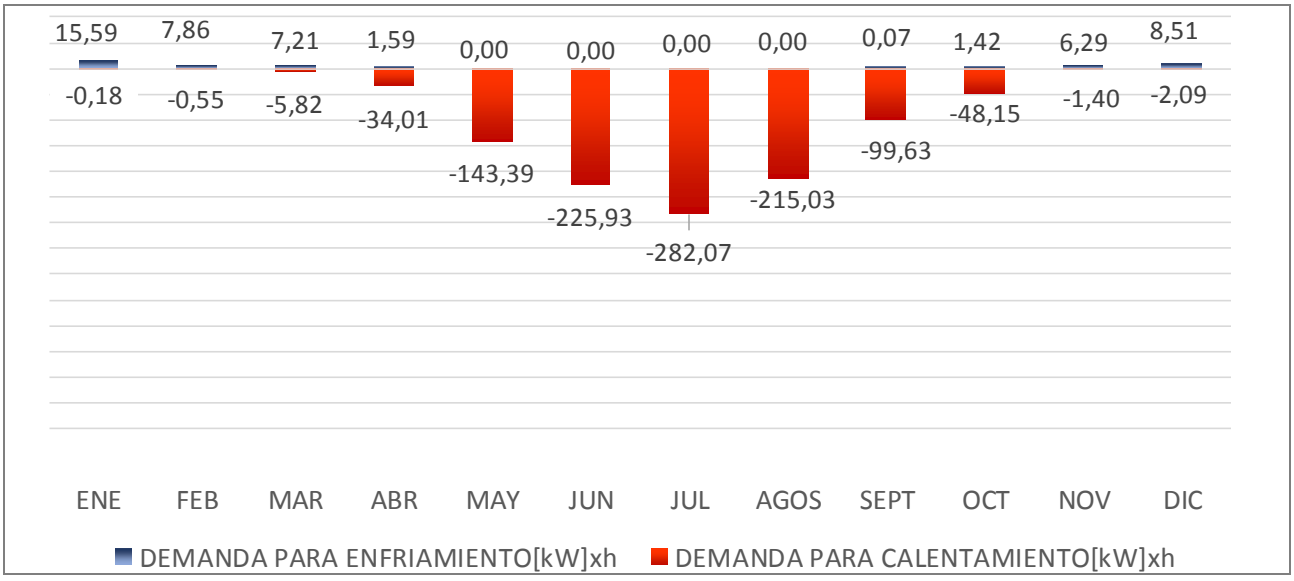
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **178** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.516** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.694** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

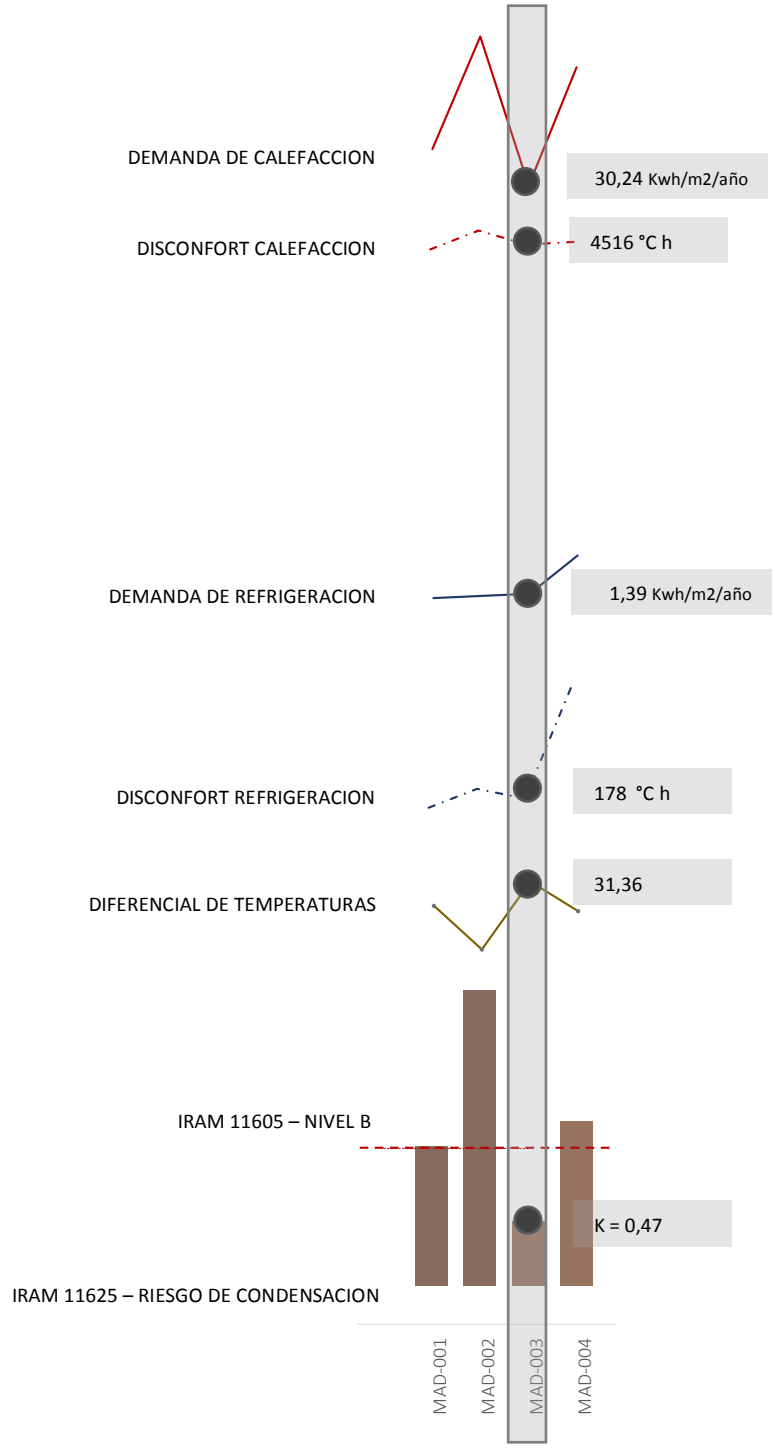



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **48,55** | kWh | 1,39 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.058,25** | kWh | 30,24 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.106,80** | kWh | **31,62** | kWh/m2/año |

| MAD-003 | MU | MADERA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 079 | N° 059 | N° 077 | N° 089 | N° 087 | N° 105 |



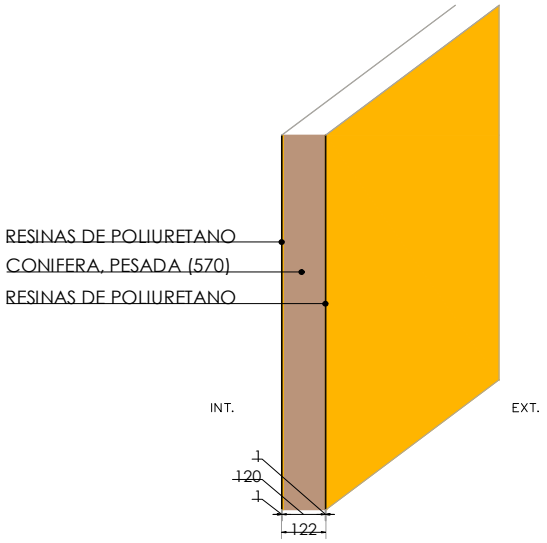

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,21 | 0% | 29,12 | 42,20 | 2,65 | 4534 | 359 |
| INDIVIDUAL | 0,47 | 0% | 31,36 | 30,24 | 1,39 | 4516,00 | 178,00 |
| INC. FAMILIA | 38,84% | 0% | 107,68% | 71,66% | 52,45% | 99,61% | 49,65% |
| INC. MUNDIAL | 39,52% | 0% | 101,77% | 73,53% | 23,16% | 101,22% | 34,82% |

| MAD-004 | MU | MADERA |
|---|---|---|

BLOQUES DE MADERA (PINO PONDEROSA) ENCASTRADOS - SISTEMA BME

## INDICE DE TRANSMITANCIA TERMICA "K"

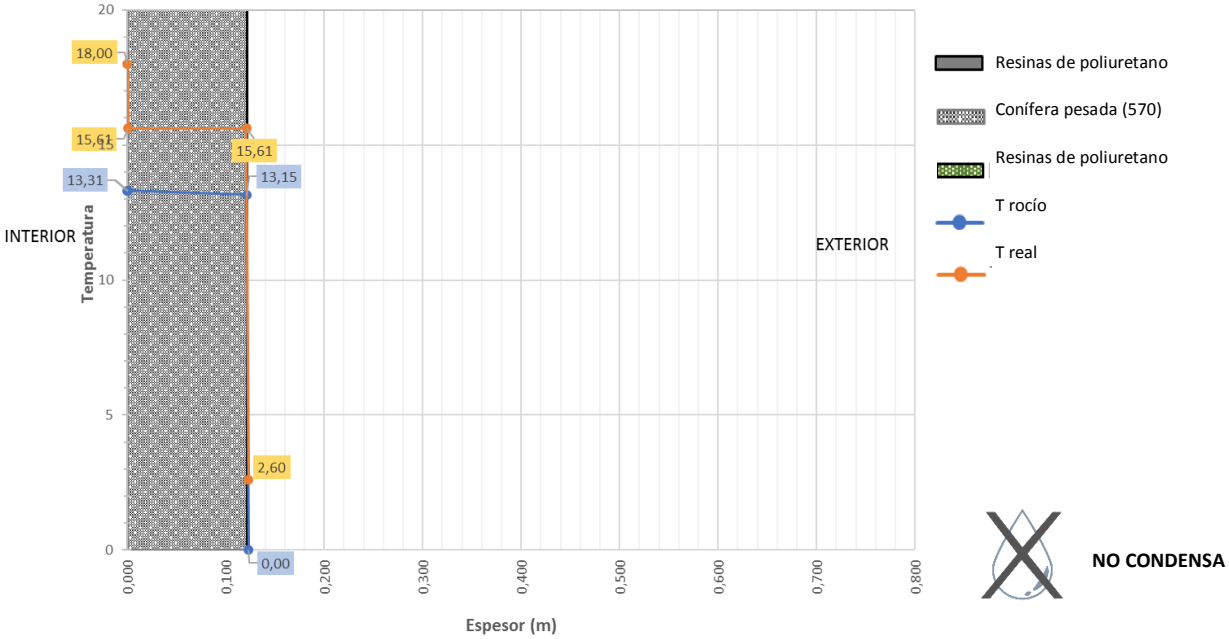
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 1,20 | 1,20 |
|---|---|
| verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



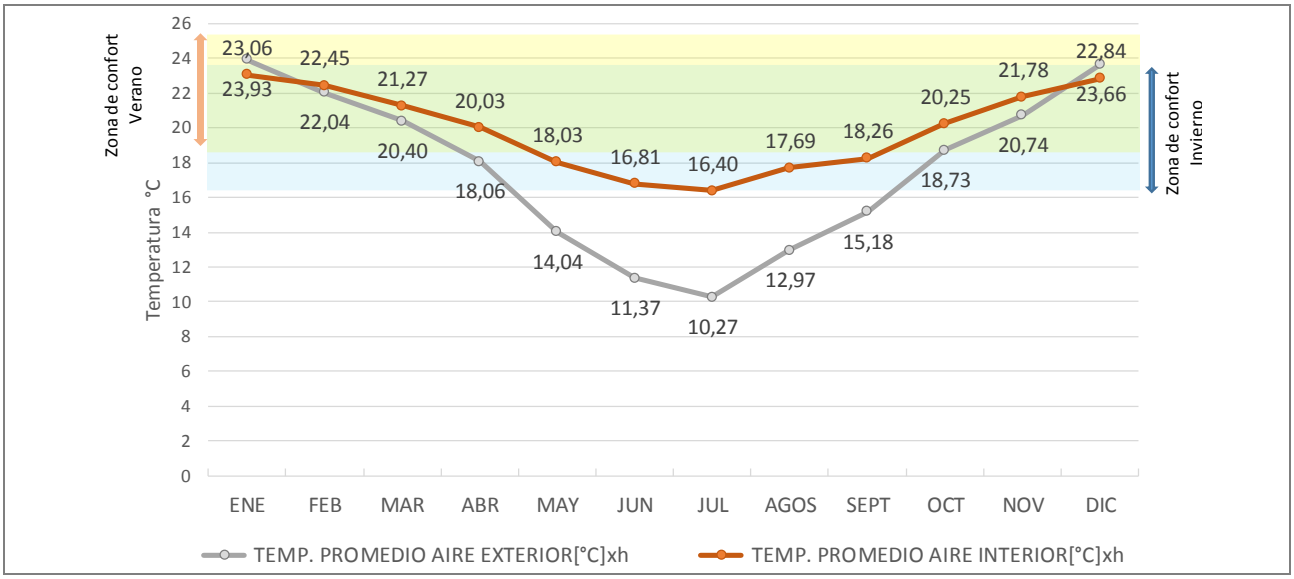

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 53,3 | 53,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,7** | **6,7** |
| | **Amortiguamiento:** | 0,083 | 0,083 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,3** | **4,8** |
| | **Amortiguamiento:** | 0,247 | 0,285 |

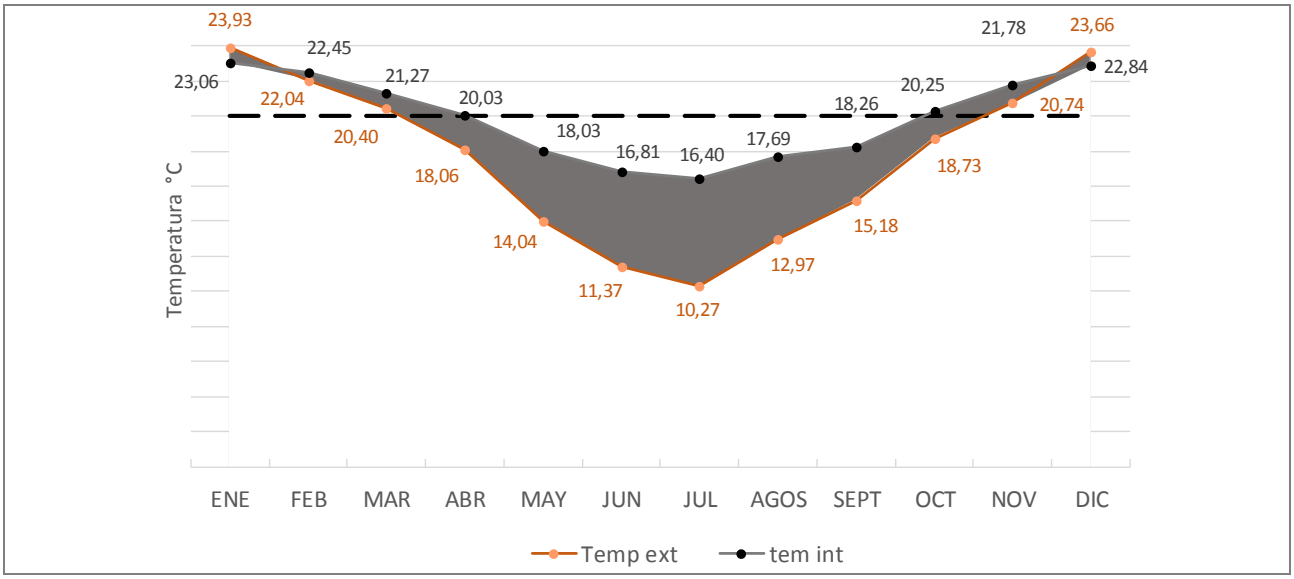
| MAD-004 | MU | MADERA |
|---|---|---|

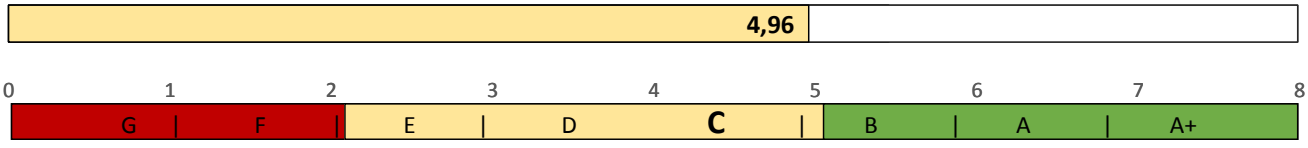
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 19:00 hs | **27,93** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **11,60** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



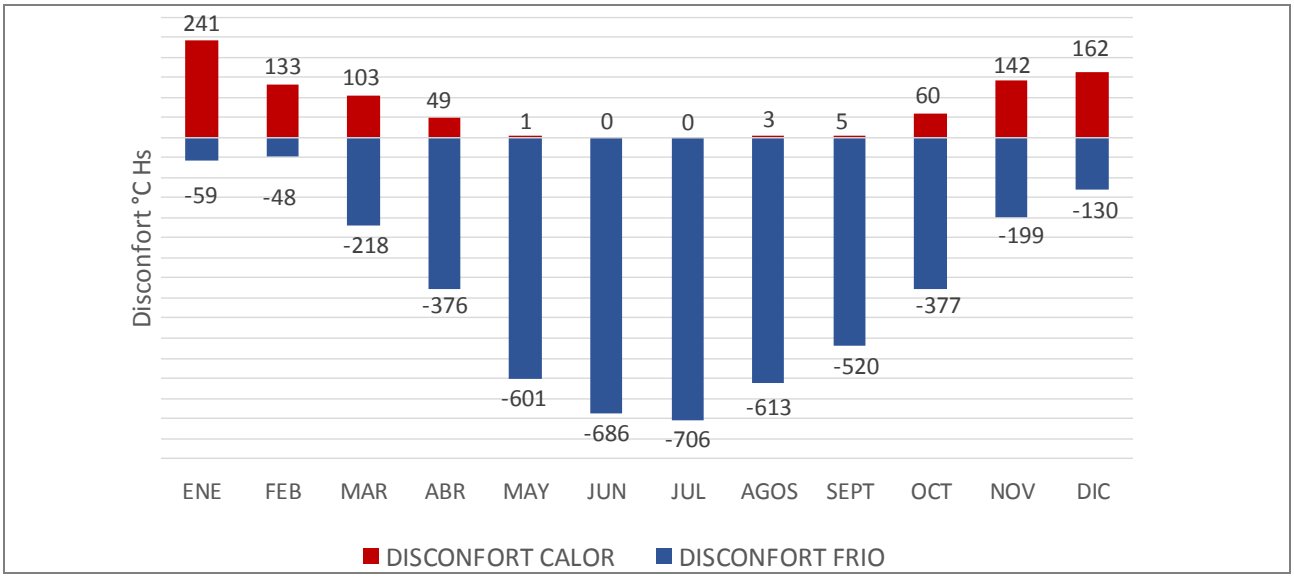




4,96 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,62

| MAD-004 | MU | MADERA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

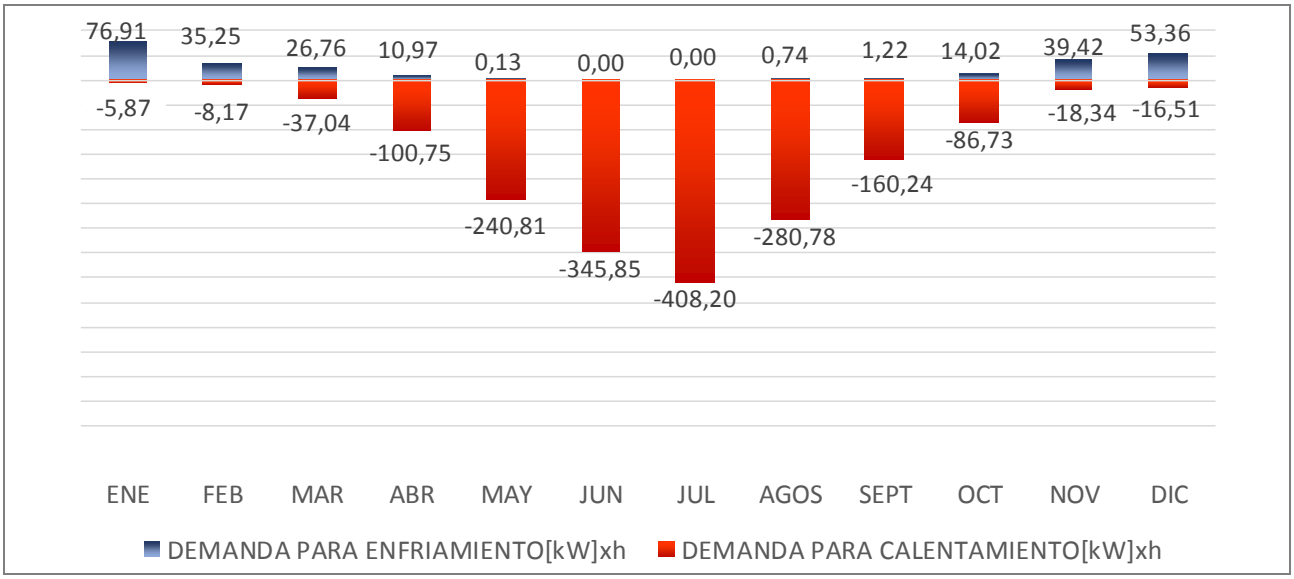
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **899** | °C Hs | 10% |
| HORAS DE DISCONFORT POR FRÍO | **4.533** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.433** | **°C Hs** | **62%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

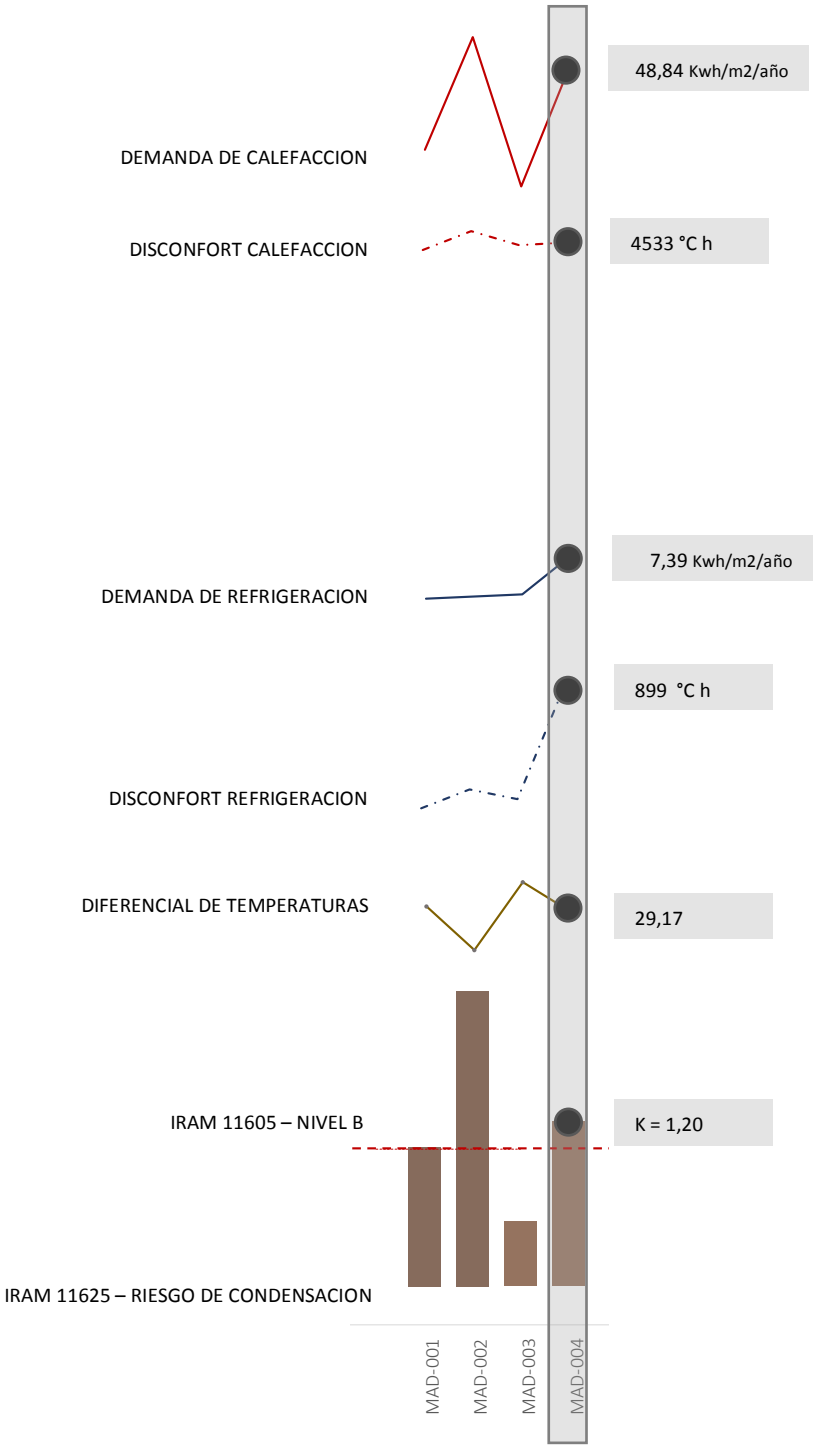



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **258,80** | kWh | 7,39 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.709,28** | kWh | 48,84 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.968,08** | kWh | **56,23** | kWh/m2/año |

| MAD-004 | MU | MADERA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 176 | N° 178 | N° 180 | N° 184 | N° 154 | N° 106 |



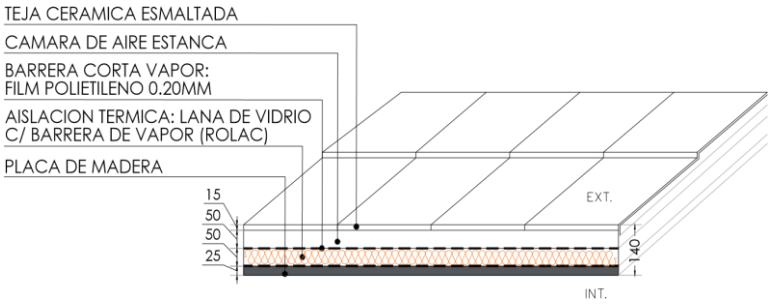

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 1,21 | 0% | 29,12 | 42,20 | 2,65 | 4534 | 359 |
| INDIVIDUAL | 1,20 | 0% | 29,17 | 48,84 | 7,39 | 4533,00 | 899,00 |
| INC. FAMILIA | 99,17% | 0% | 100,16% | 115,74% | 278,87% | 99,98% | 250,77% |
| INC. MUNDIAL | 100,89% | 0% | 94,67% | 118,76% | 123,13% | 101,60% | 175,88% |

| MAD-005 | CU | MADERA |
|---|---|---|

CUBIERTA DE MADERA Y TEJAS

## INDICE DE TRANSMITANCIA TERMICA "K"

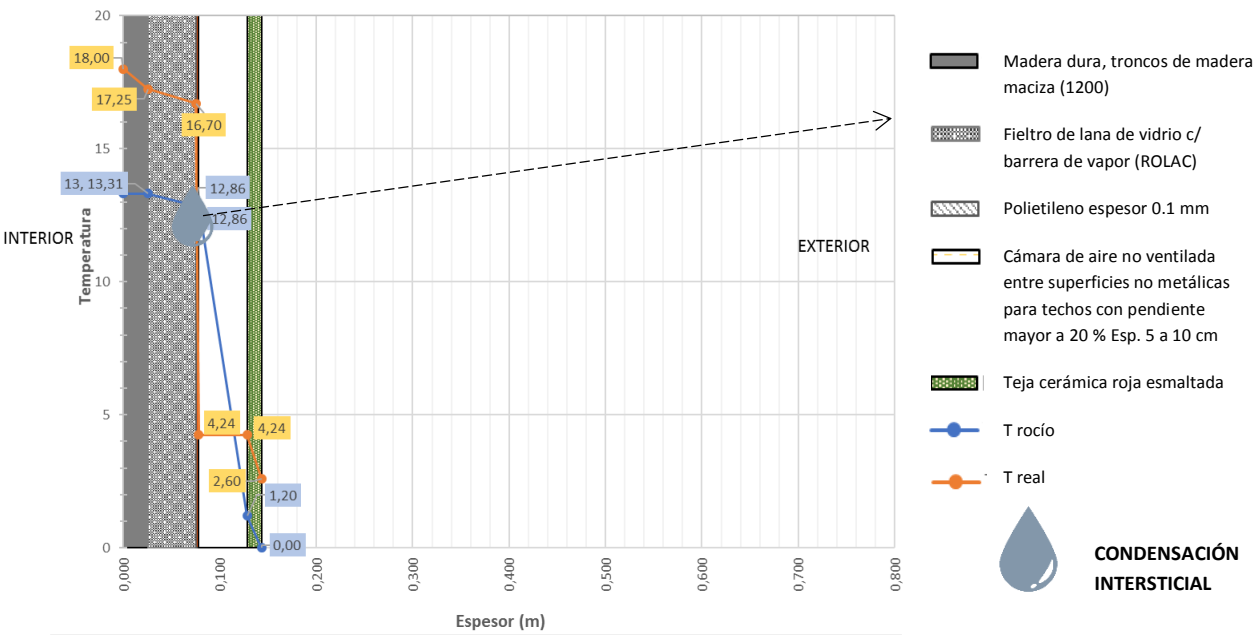
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,47 | 0,49 |
|---|---|
| **verifica verano** | **verifica invierno** |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



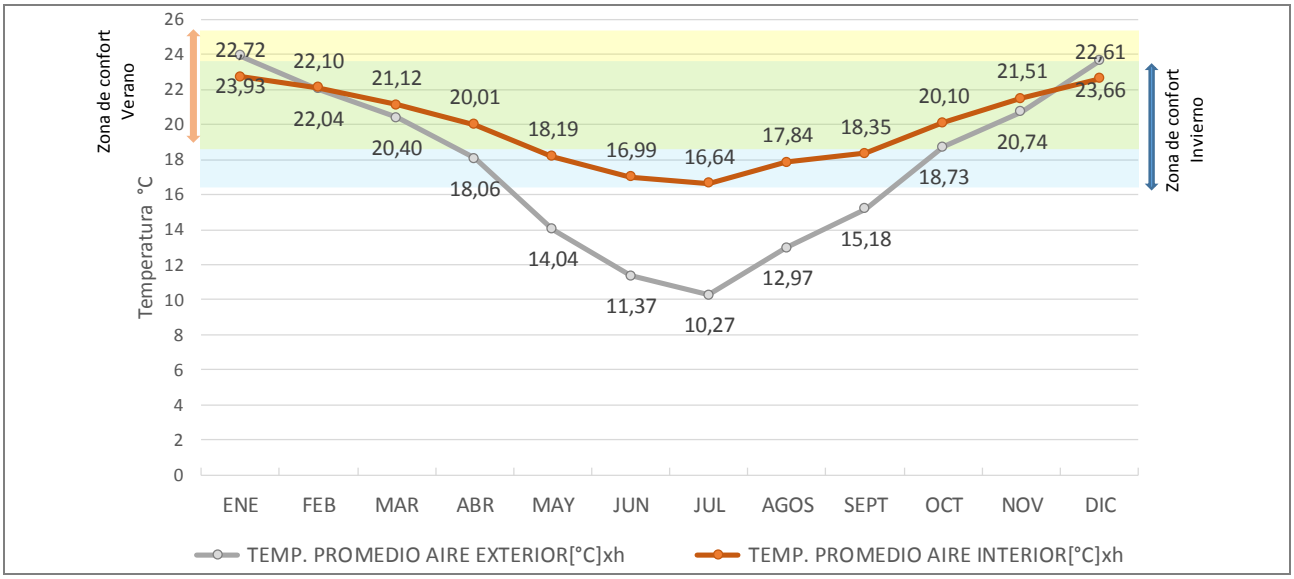

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,6 | 11,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,0** | **9,2** |
| | **Amortiguamiento:** | 0,155 | 0,034 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,8** | **8,8** |
| | **Amortiguamiento:** | 0,221 | 0,100 |

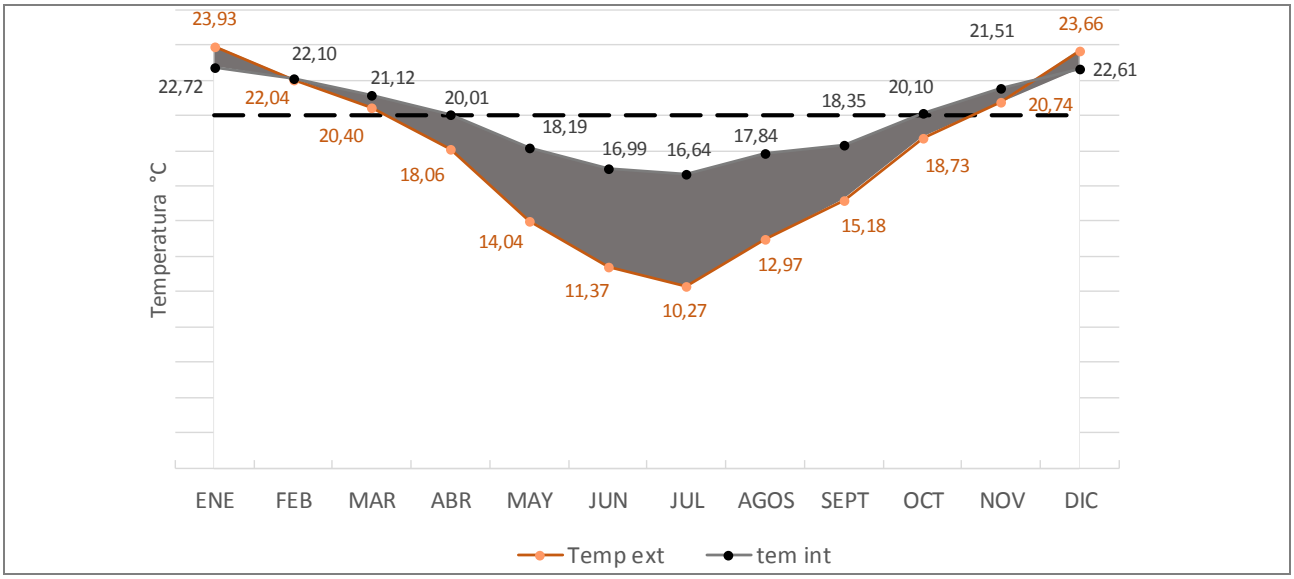
| MAD-005 | CU | MADERA |
|---|---|---|

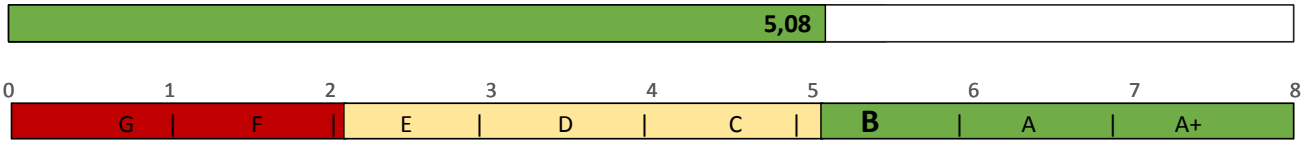
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,63** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,46** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



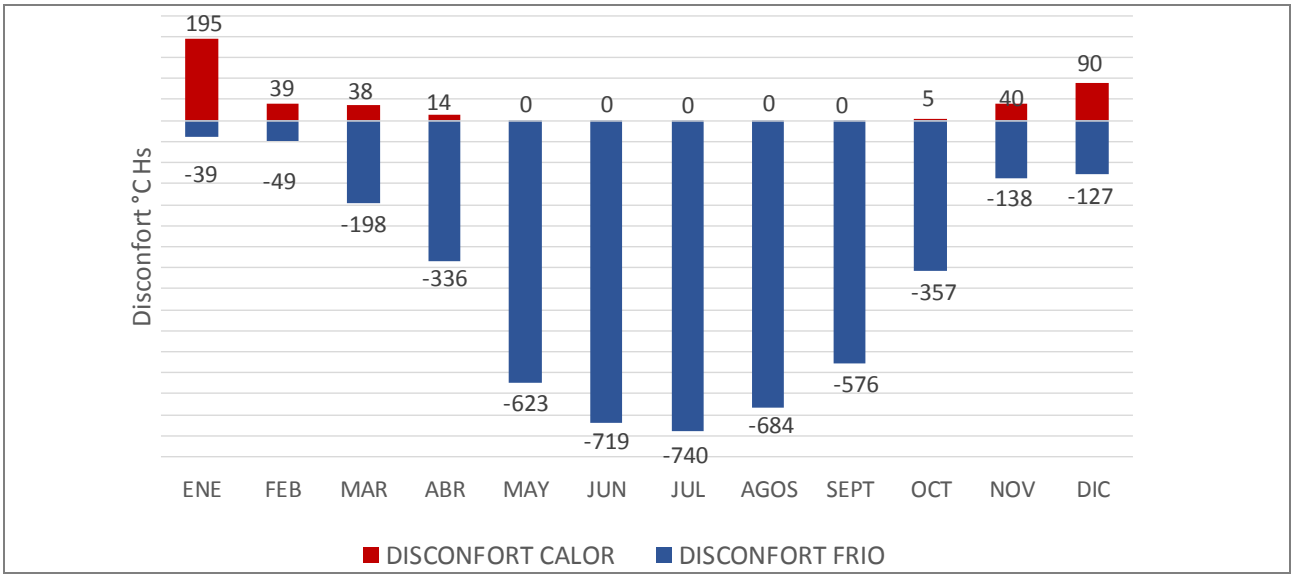




5,08 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| MAD-005 | CU | MADERA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

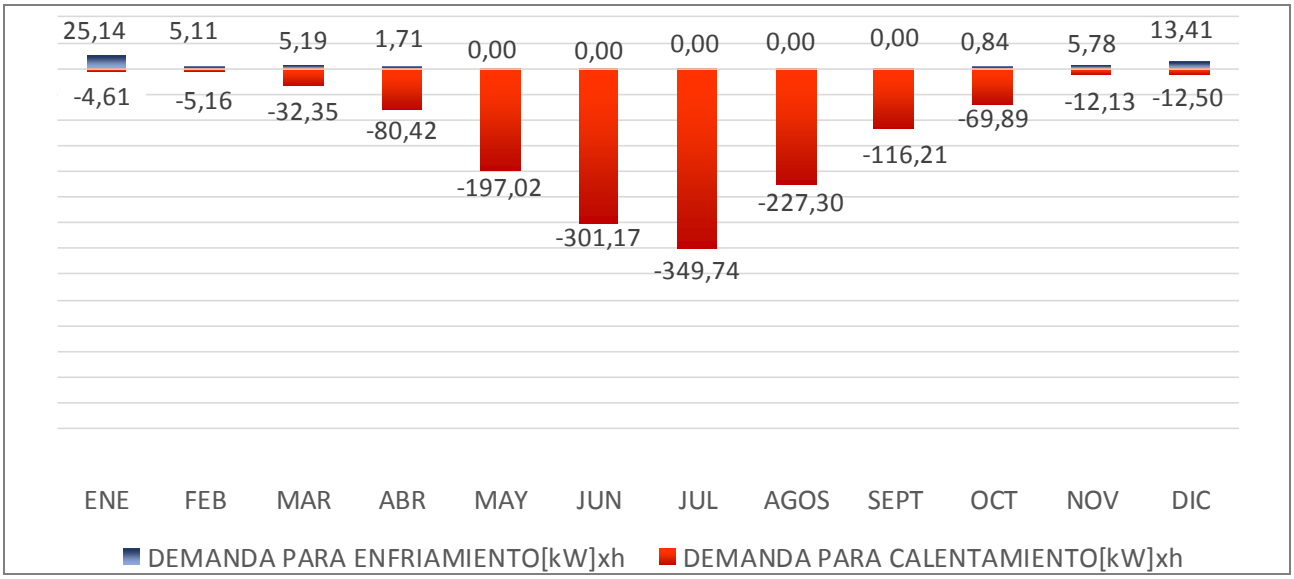
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **421** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.587** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.008** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

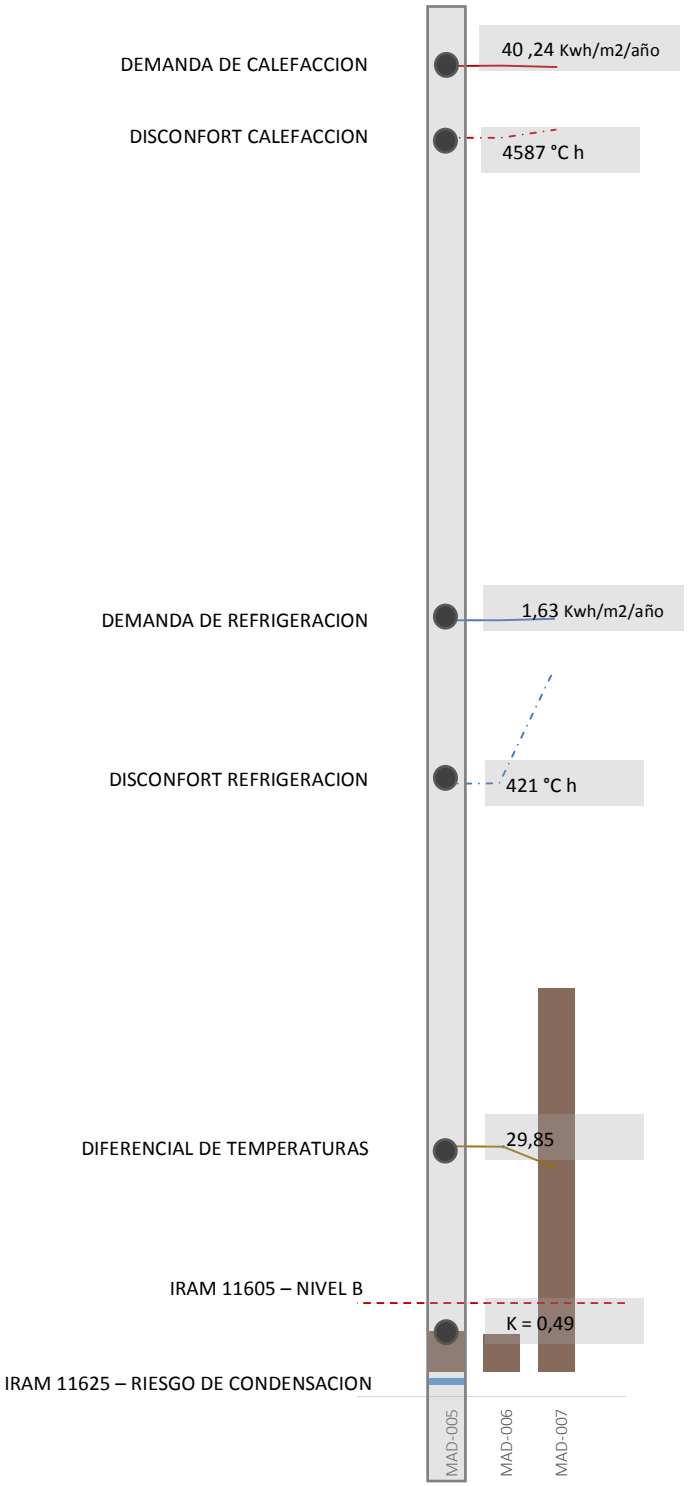



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **57,17** | kWh | 1,63 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.408,51** | kWh | 40,24 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.465,68** | kWh | **41,88** | kWh/m2/año |

| MAD-005 | CU | MADERA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 062 | N° 058 | N° 022 | N° 014 | N° 078 | N° 013 |



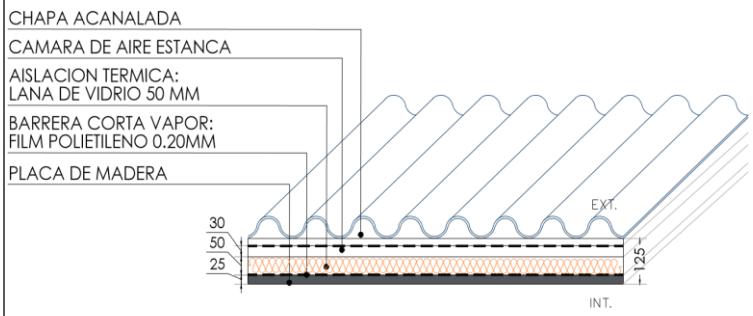

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,88 | 33% | 28,92 | 40,19 | 1,76 | 4615 | 821 |
| INDIVIDUAL | 0,49 | 100% | 29,85 | 40,24 | 1,63 | 4587 | 421 |
| INC. FAMILIA | 26,11% | 0% | 103,20% | 100,12% | 92,61% | 99,39% | 51,30% |
| INC. MUNDIAL | 60,49% | 208% | 100,51% | 90,47% | 39,63% | 100,57% | 66,65% |

| MAD-006 | CU | MADERA |
|---|---|---|

CUBIERTA DE MADERA Y CHAPA

## INDICE DE TRANSMITANCIA TERMICA "K"

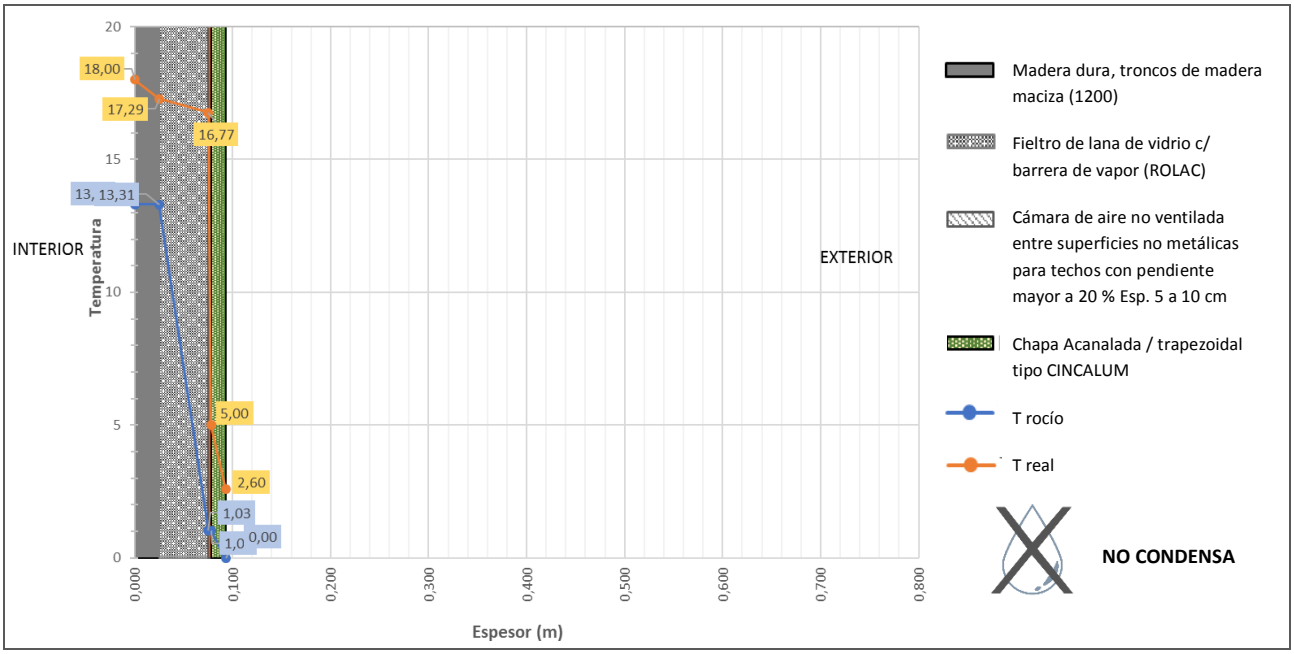
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,44 | 0,46 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



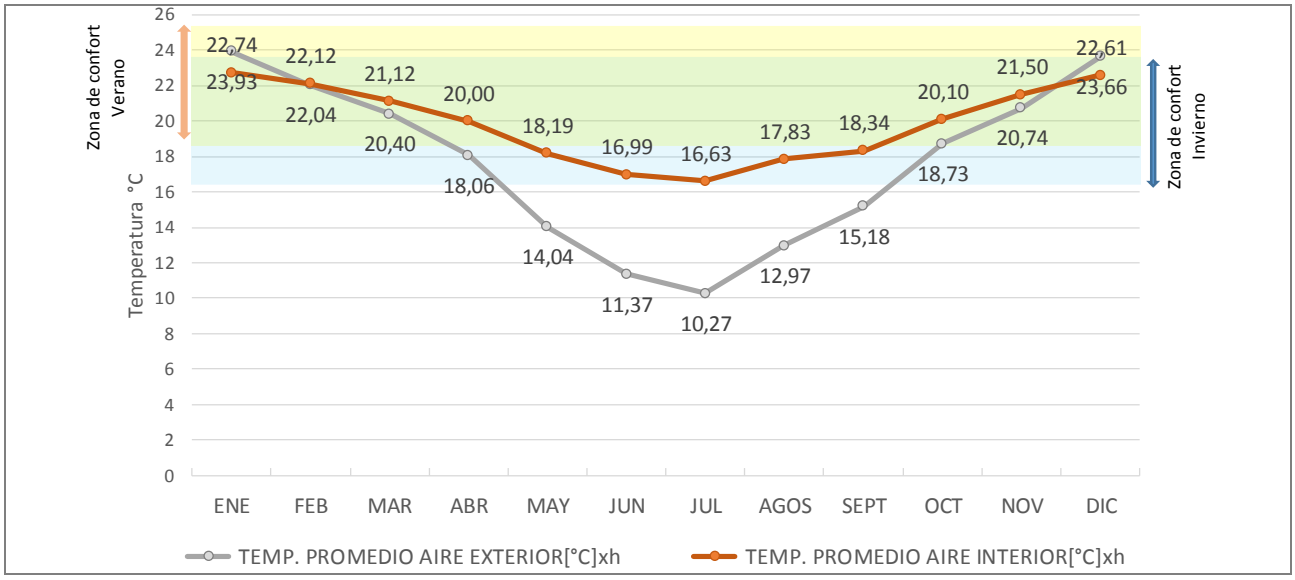

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 6,1 | 11,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,0** | **9,4** |
| | **Amortiguamiento:** | 0,075 | 0,030 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,5** | **9,1** |
| | **Amortiguamiento:** | 0,140 | 0,093 |

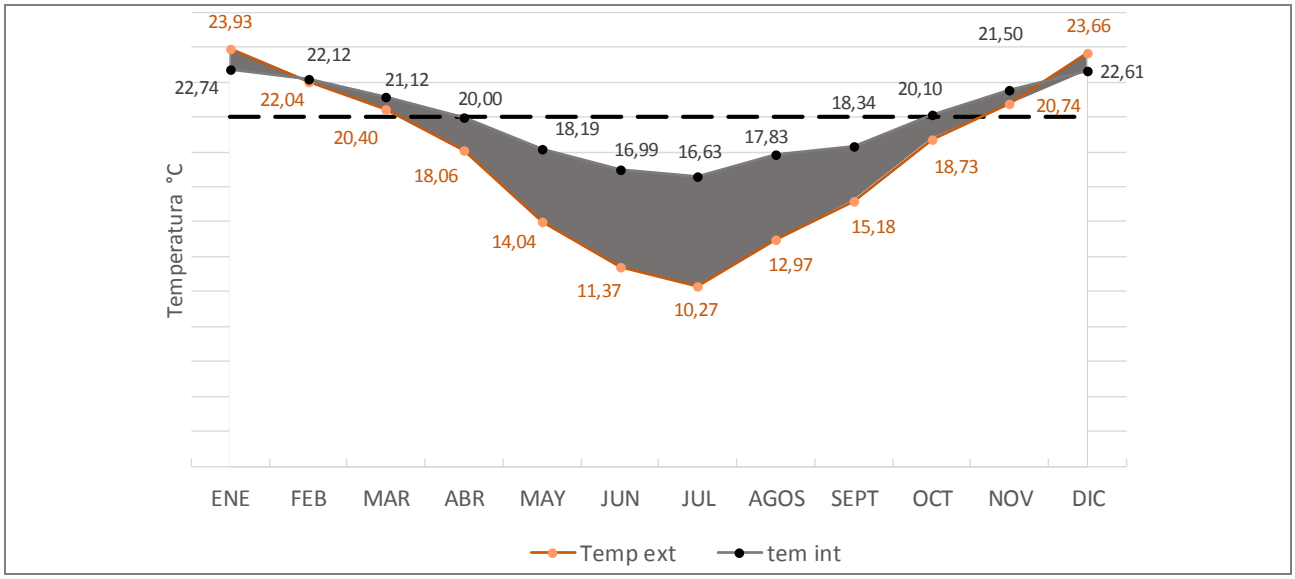
| MAD-006 | CU | MADERA |
|---|---|---|

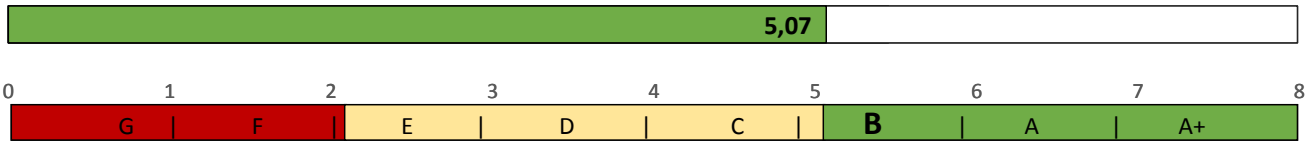
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,65** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,44** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



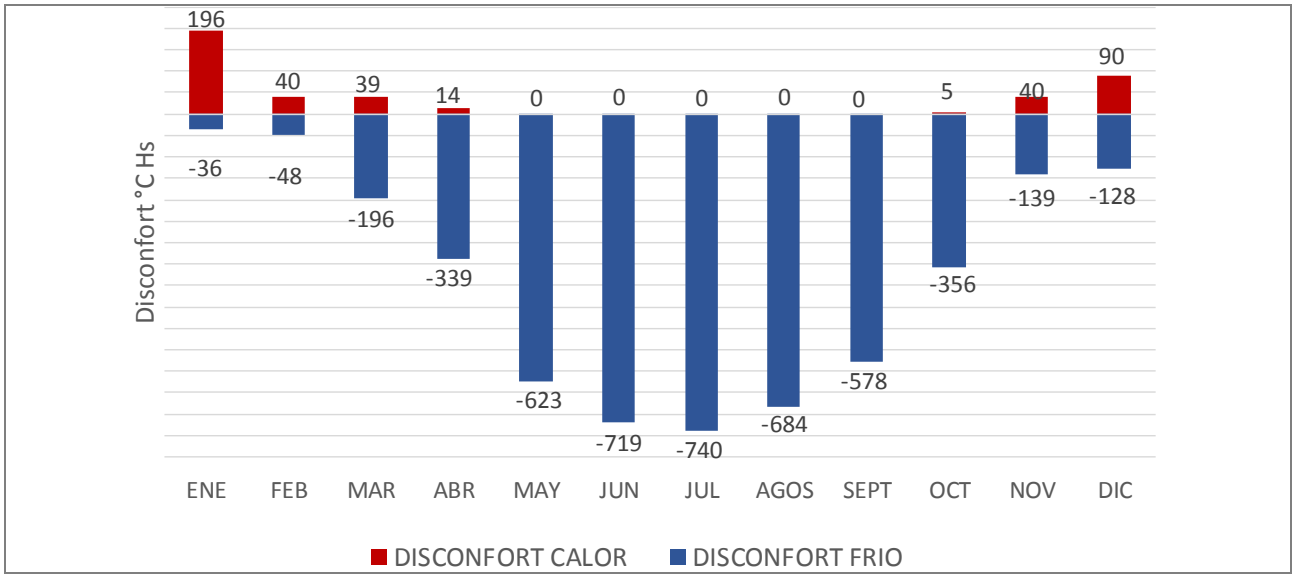




5,07 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| MAD-006 | CU | MADERA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

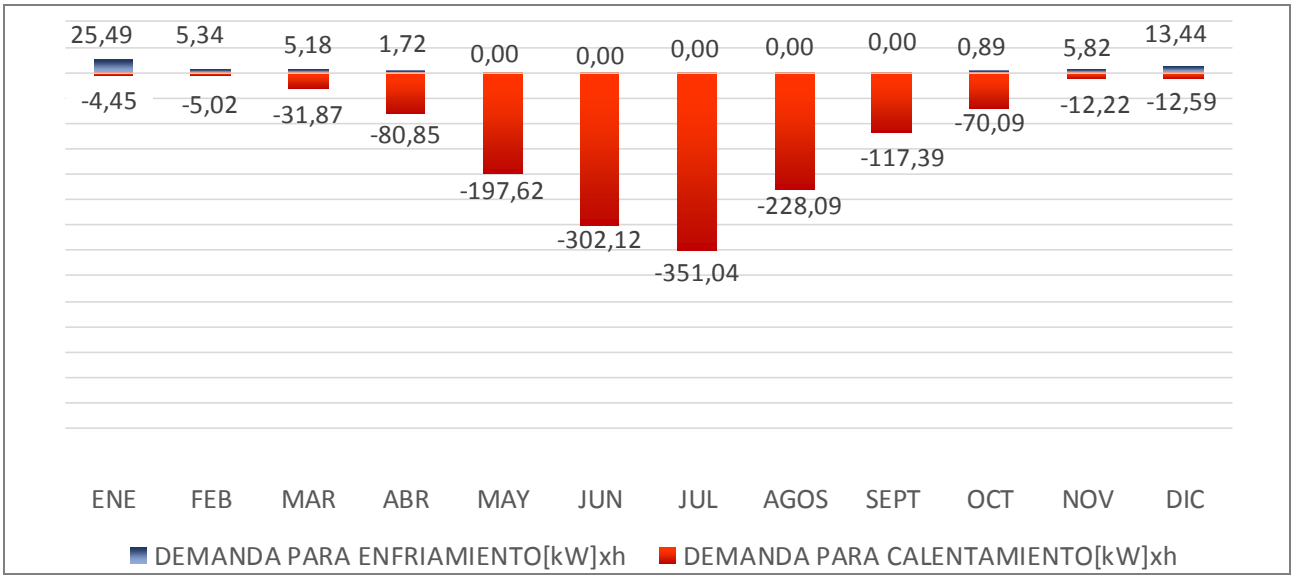
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **424** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.588** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.011** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

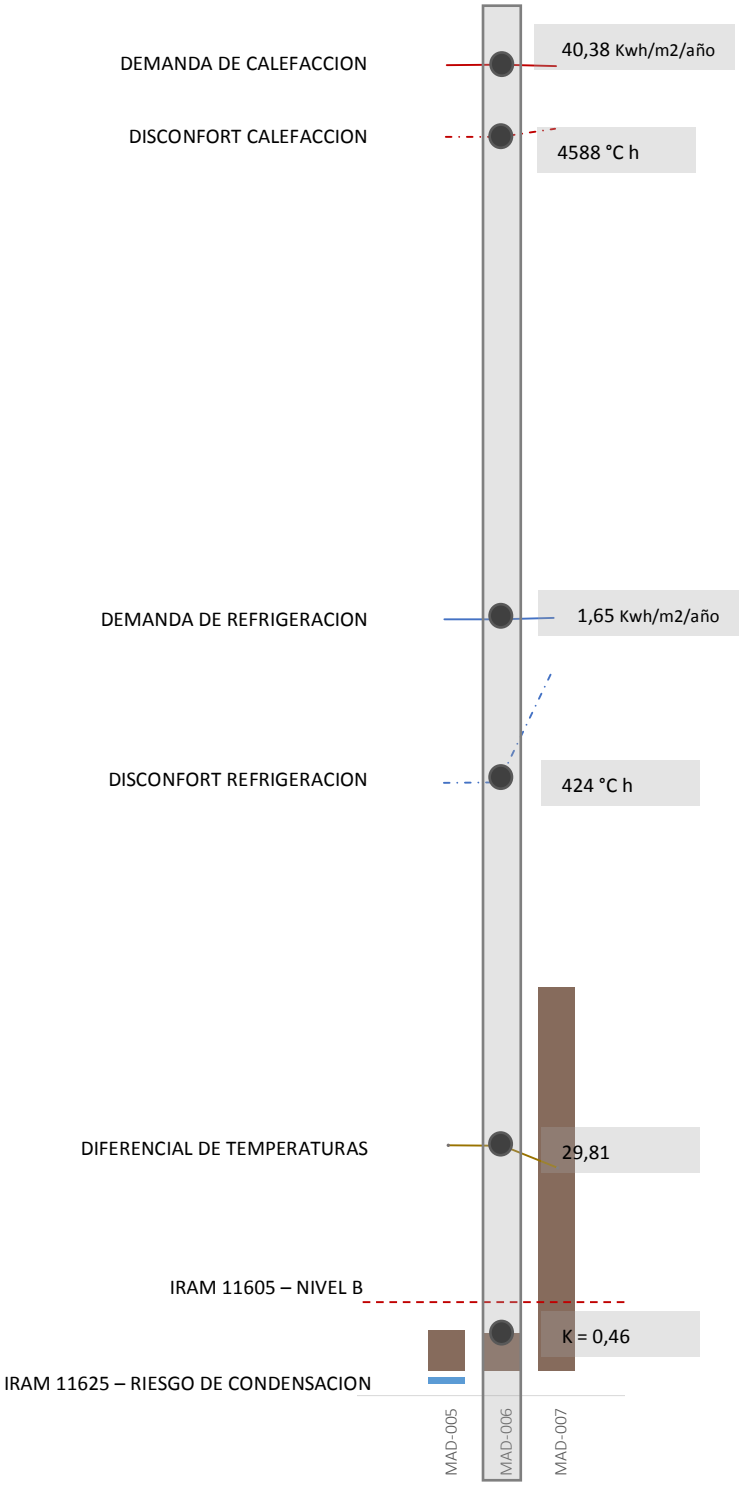



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **57,88** | kWh | 1,65 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.413,35** | kWh | 40,38 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.471,22** | kWh | **42,03** | kWh/m2/año |

| MAD-006 | CU | MADERA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 057 | N° 059 | N° 025 | N° 016 | N° 079 | N° 015 |

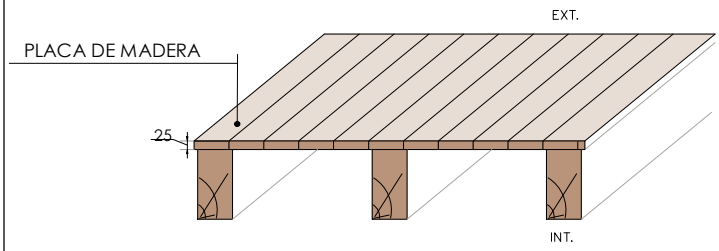



| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,88 | 33% | 28,92 | 40,19 | 1,76 | 4615 | 821 |
| INDIVIDUAL | 0,46 | 0% | 29,81 | 40,38 | 1,65 | 4588 | 424 |
| INC. FAMILIA | 24,51% | 0% | 103,07% | 100,47% | 93,75% | 99,41% | 51,67% |
| INC. MUNDIAL | 56,79% | 0% | 100,37% | 90,79% | 40,11% | 100,59% | 67,12% |

| MAD-007 | CU | MADERA |
|---|---|---|
| ENTREPISO MADERA | | |

## INDICE DE TRANSMITANCIA TERMICA "K"

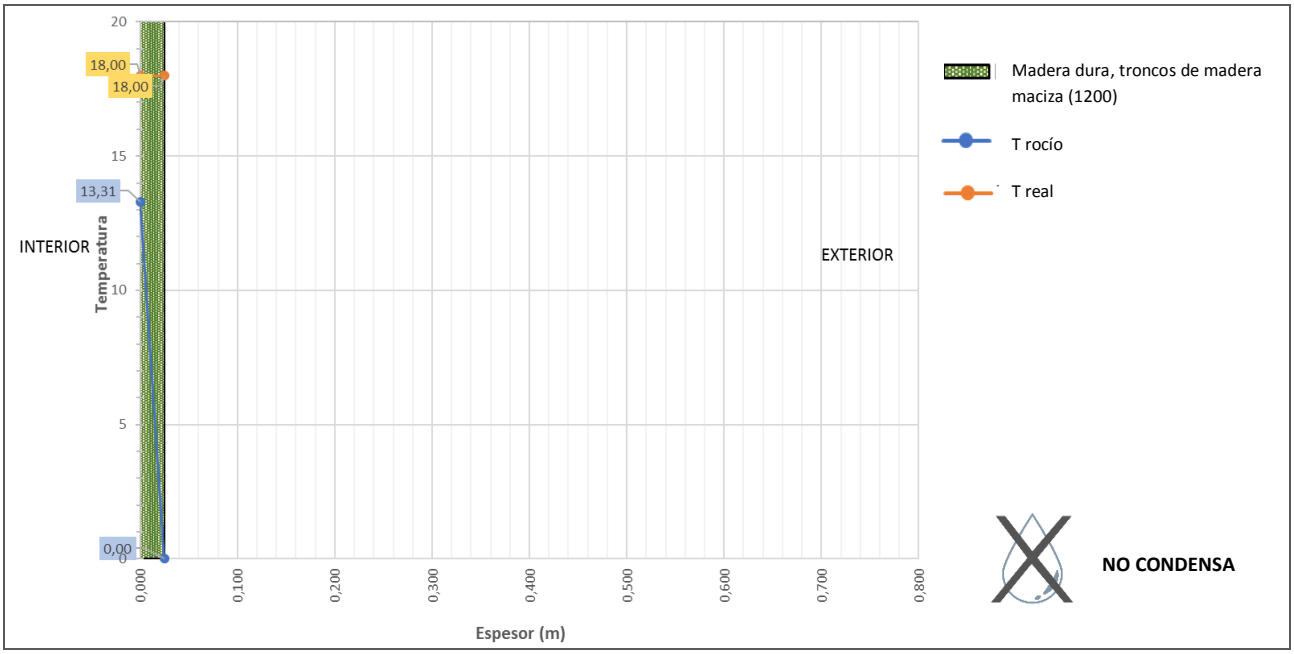
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 3,53 | 4,68 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



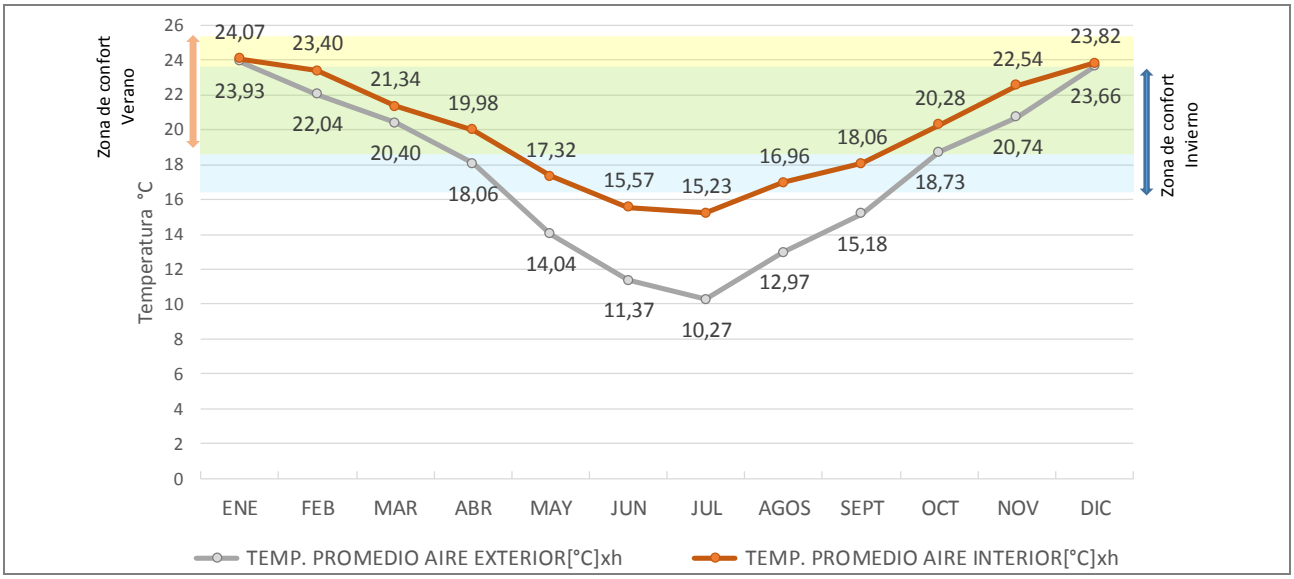

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano | Invierno 125,8 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | **1,1** |
| | **Amortiguamiento:** | 0,625 | 0,742 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **2,9** | **1,7** |
| | **Amortiguamiento:** | 0,472 | 0,633 |

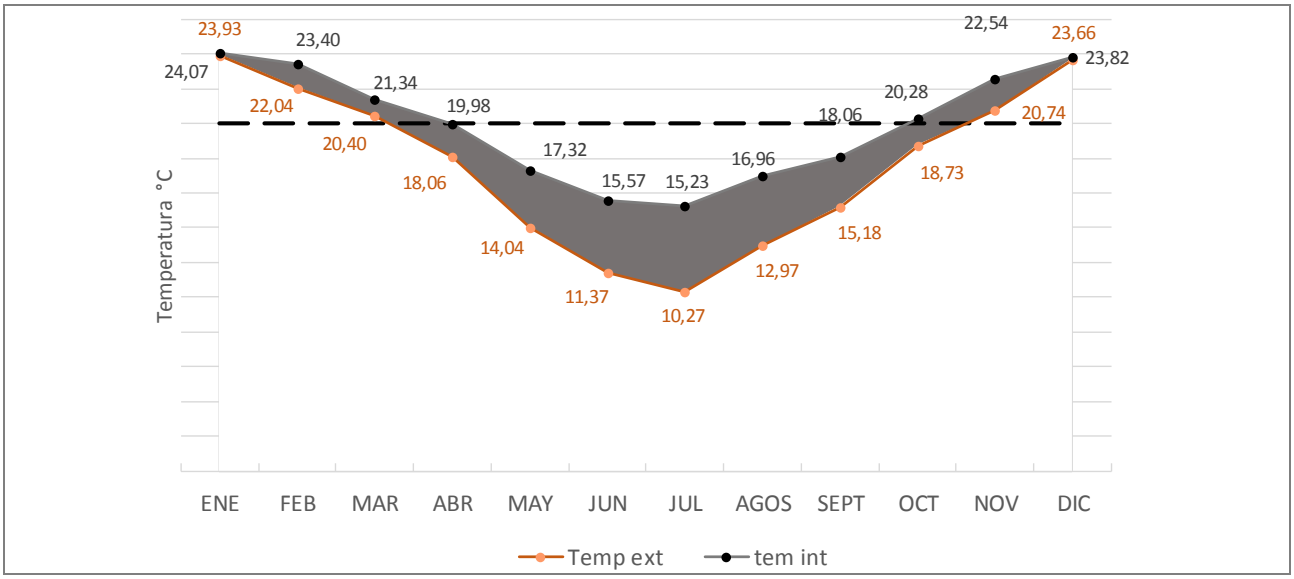
| MAD-007 | CU | MADERA |
|---|---|---|

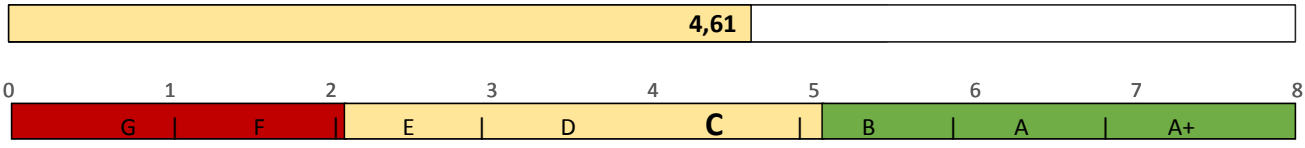
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 19:00 hs | **30,54** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 11:00 hs | **10,01** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



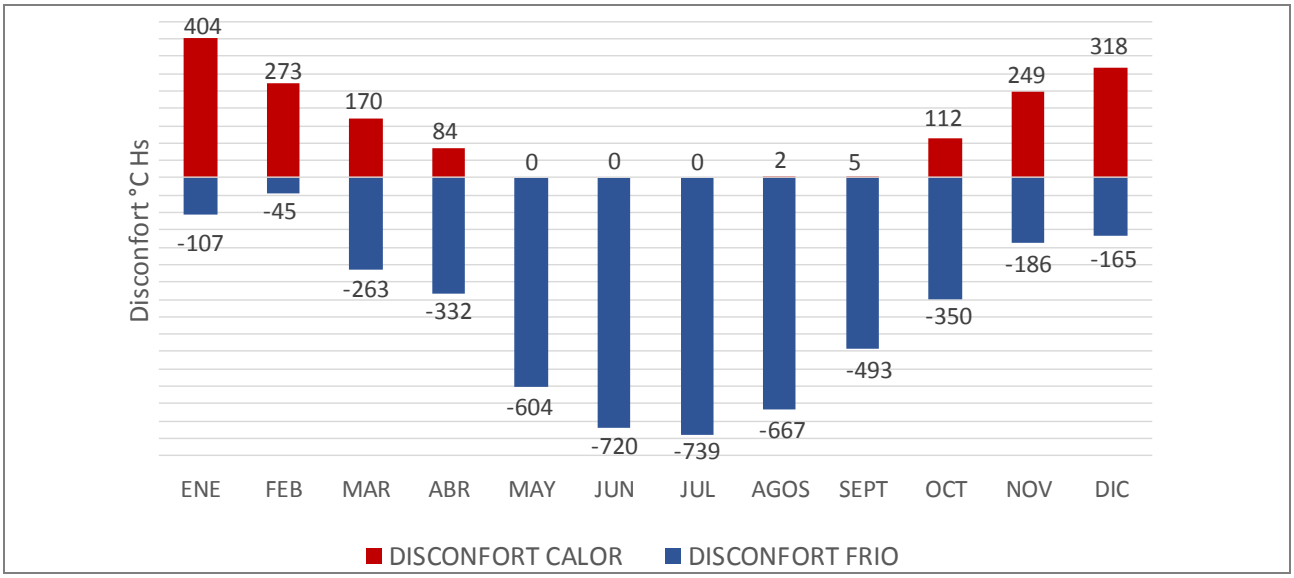




4,61 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,58

| MAD-007 | CU | MADERA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

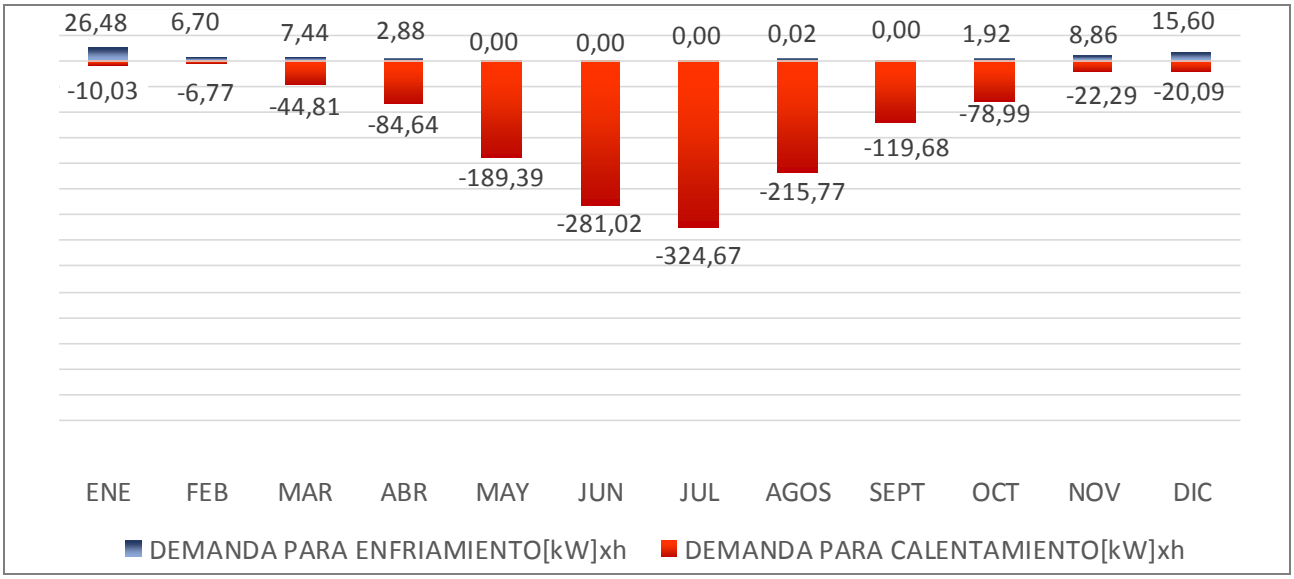
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.617** | °C Hs | 18% |
| HORAS DE DISCONFORT POR FRÍO | **4.671** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **6.288** | **°C Hs** | **72%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

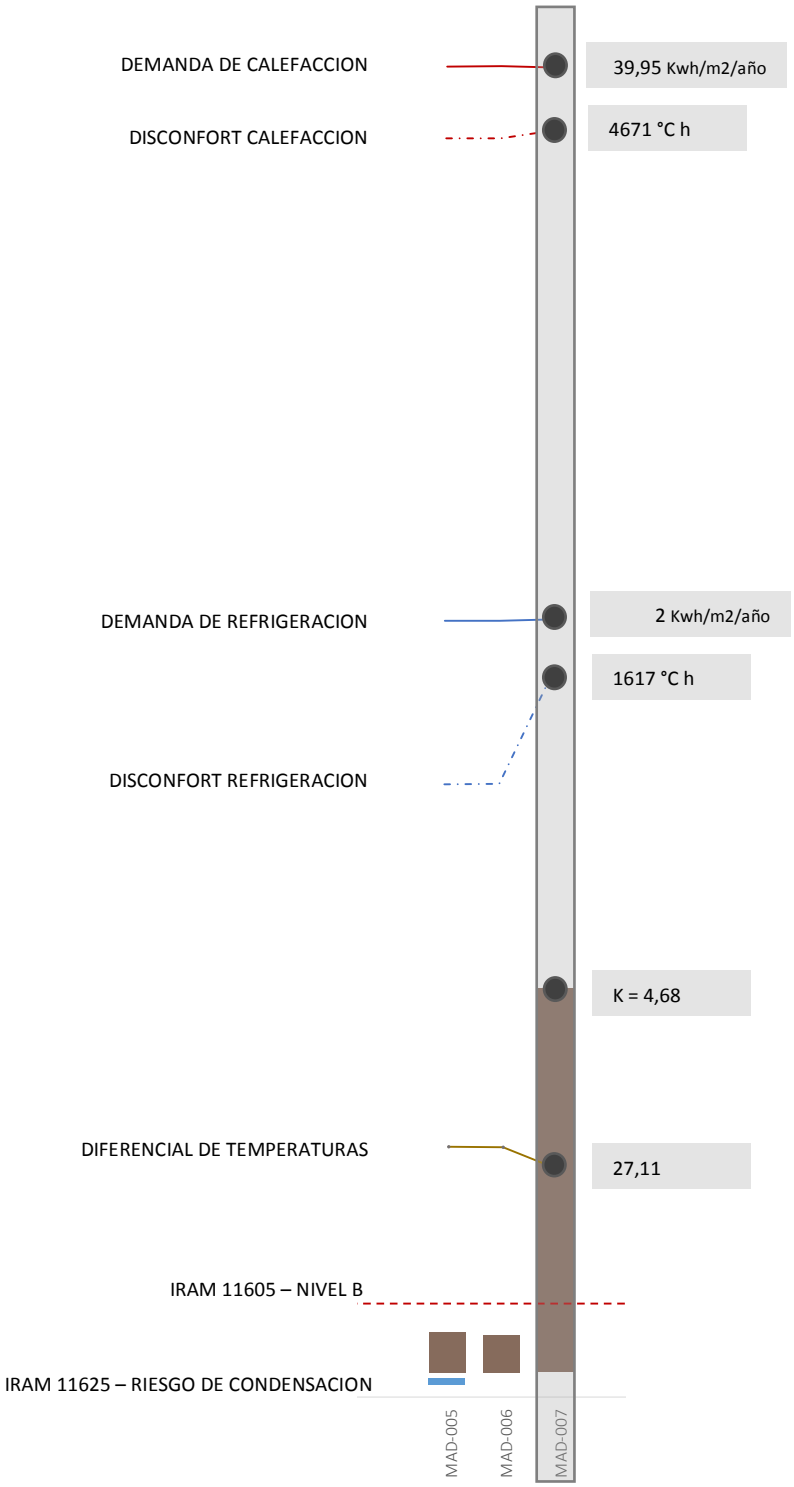



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **69,90** | kWh | 2,00 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.398,17** | kWh | 39,95 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.468,07** | kWh | **41,94** | kWh/m2/año |

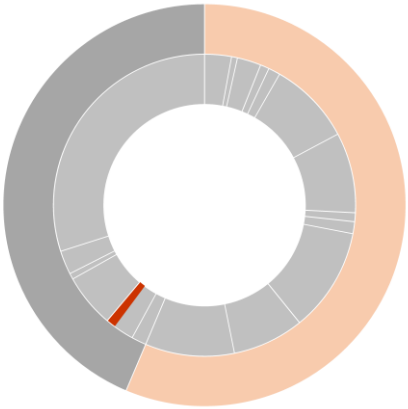
| MAD-007 | CU | MADERA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 116 | N° 118 | N° 016 | N° 042 | N° 116 | N° 116 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,88 | 33% | 28,92 | 40,19 | 1,76 | 4615 | 821 |
| INDIVIDUAL | 4,68 | 0% | 27,11 | 39,95 | 2 | 4671 | 1617 |
| INC. FAMILIA | 249,38% | 0% | 93,73% | 99,40% | 113,64% | 101,21% | 197,03% |
| INC. MUNDIAL | 577,78% | 0% | 91,28% | 89,82% | 48,62% | 102,41% | 255,99% |



# BALLOON FRAME

**BFR 001**: BALLOON FRAME MADERA-MADERA

**BFR 002**: BALLOON FRAME CHAPA MADERA

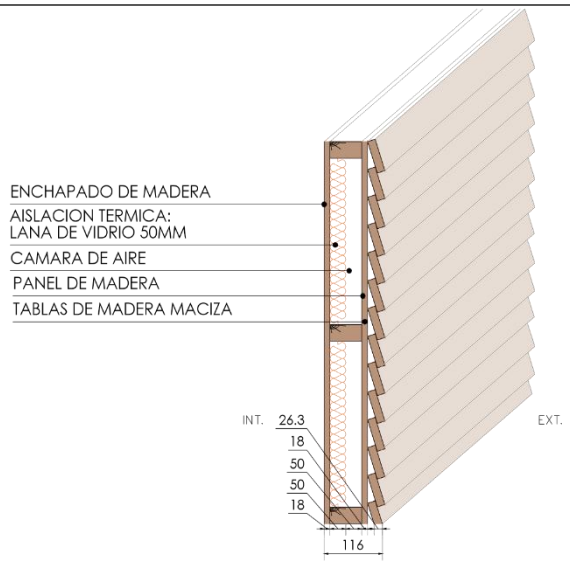
**BFR 003:** BALLOON FRAME MADERA- LADRILLO MACIZO

| BFR-001 | MU | BALLON FRAME |
|---|---|---|

BALLON FRAME MADERA-MADERA

## INDICE DE TRANSMITANCIA TERMICA "K"

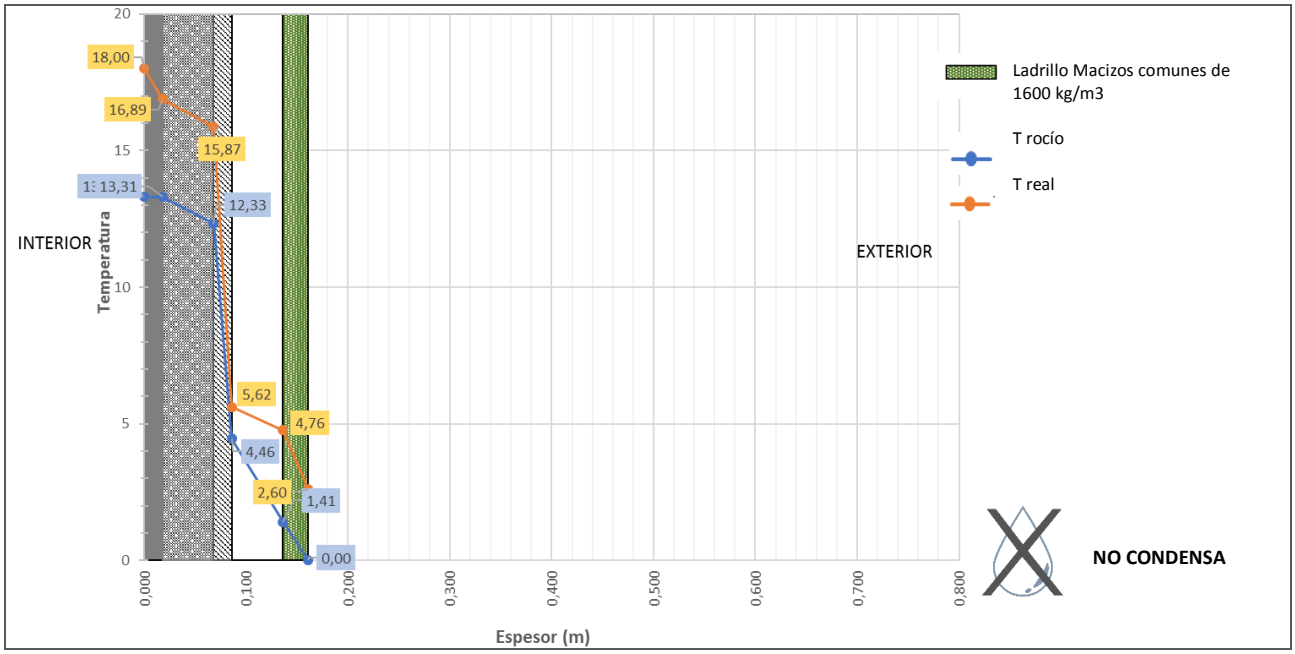
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,55 | 0,55 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



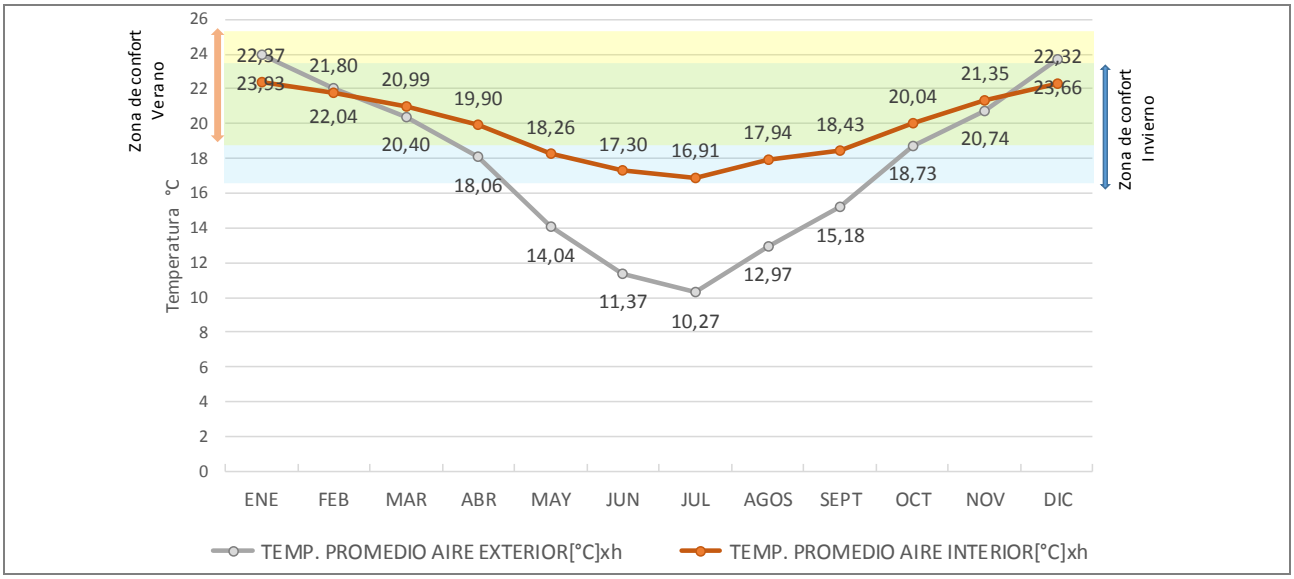

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 17,3 | 6,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,4** | **5,6** |
| | **Amortiguamiento:** | 0,031 | 0,127 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **9,2** | **4,3** |
| | **Amortiguamiento:** | 0,090 | 0,323 |

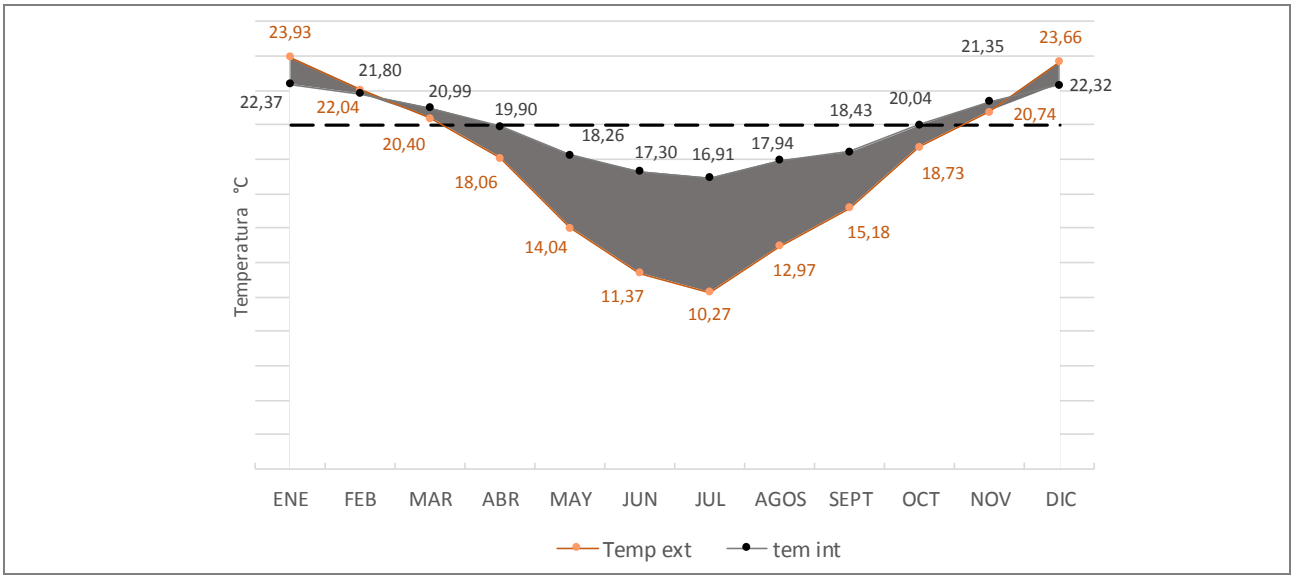
| BFR-001 | MU | BALLON FRAME |
|---|---|---|

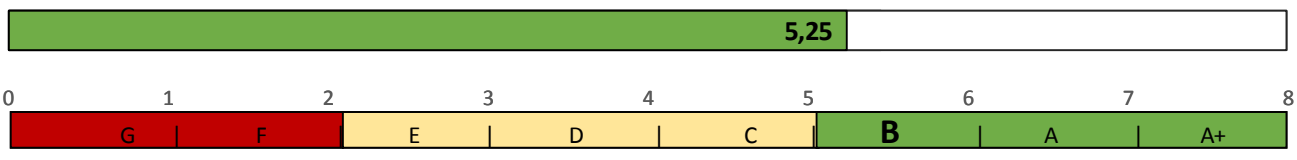
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,71** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 07:00 hs | **14,64** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



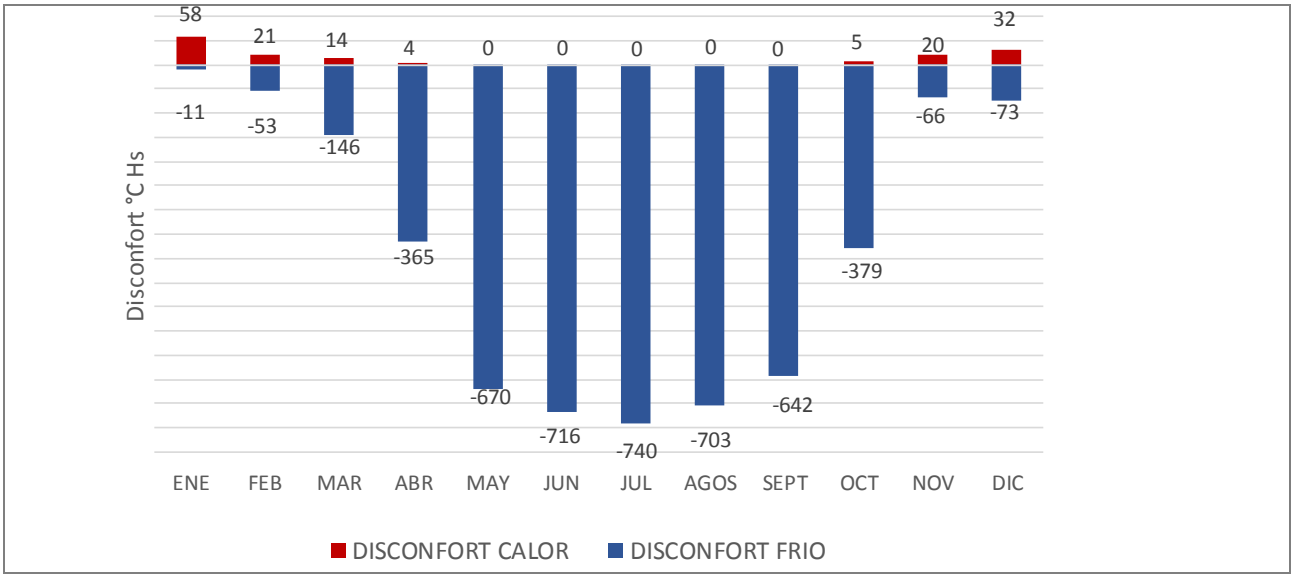




5,25 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| BFR-001 | MU | BALLON FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

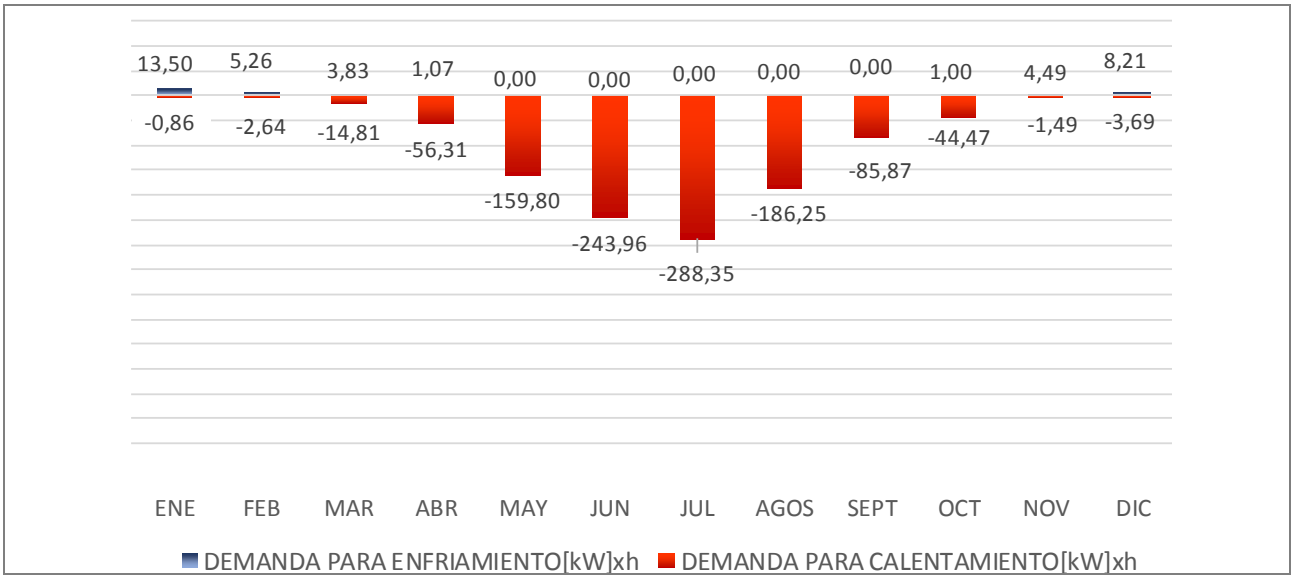
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **155** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.563** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.719** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **37,37** | kWh | 1,07 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.088,51** | kWh | 31,10 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.125,89** | kWh | **32,17** | kWh/m2/año |

| BFR-001 | MU | BALLON FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 128 | N° 127 | N° 101 | N° 035 | N° 117 | N° 107 |

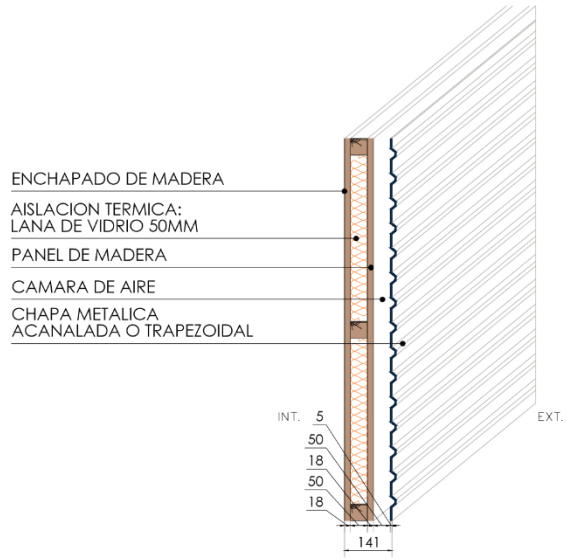



| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,55 | 0% | 30,57 | 32,30 | 1,01 | 4505 | 150 |
| INDIVIDUAL | 0,55 | 0% | 30,86 | 31,1 | 1,07 | 4563 | 155 |
| INC. FAMILIA | 100,00% | 0% | 100,94% | 96,29% | 105,59% | 101,28% | 103,10% |
| INC. MUNDIAL | 46,24% | 0% | 100,15% | 75,62% | 17,83% | 102,27% | 30,32% |

| BFR-002 | MU | BALLON FRAME |
|---|---|---|
| CHAPA MADERA | | |

## INDICE DE TRANSMITANCIA TERMICA "K"

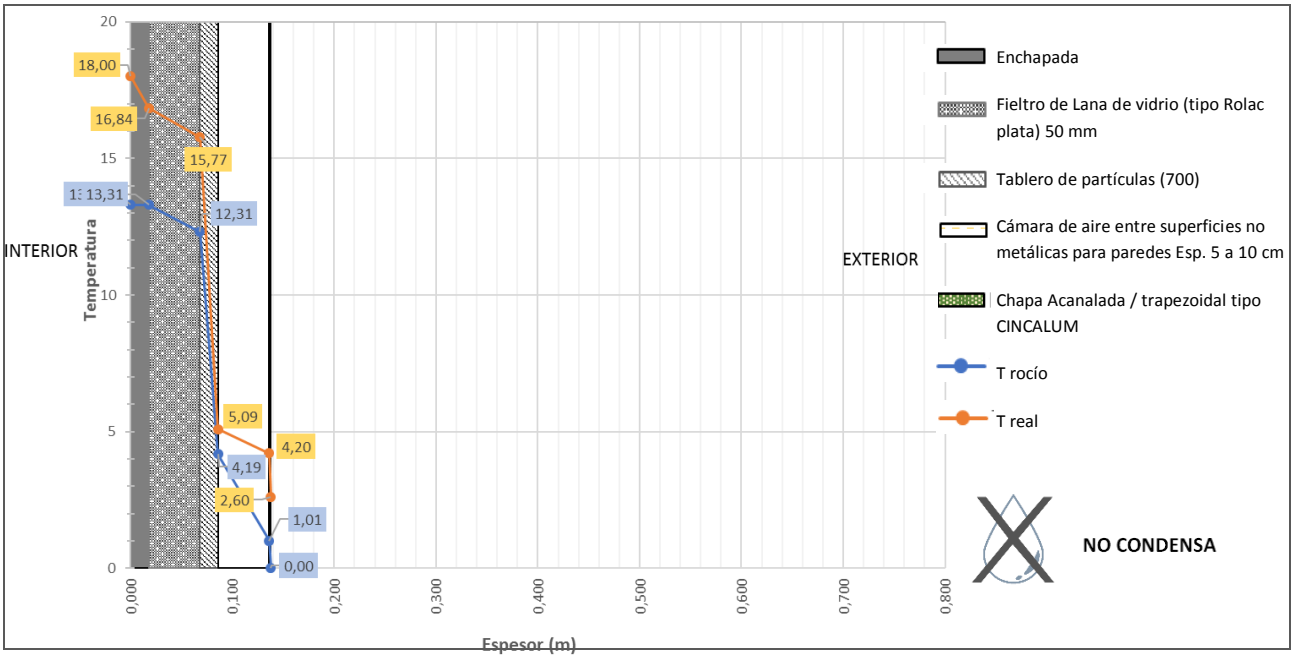
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,58 | 0,58 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



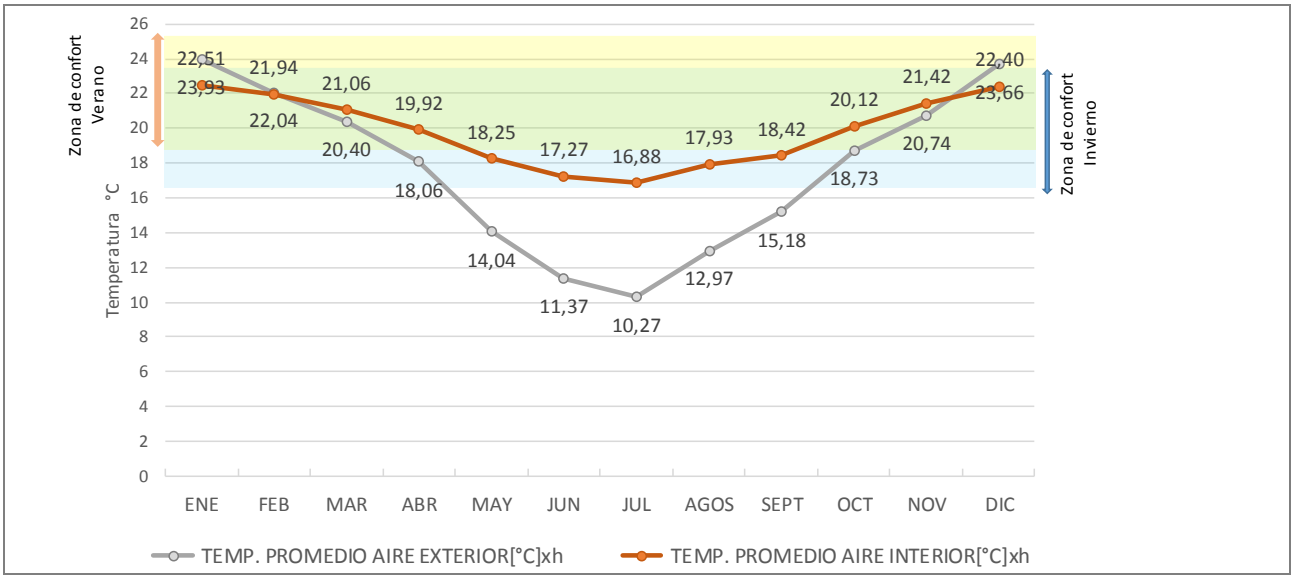

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 4,3 | Invierno 6,4 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,4** | **5,4** |
| | **Amortiguamiento:** | 0,193 | 0,133 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,4** | **3,8** |
| | **Amortiguamiento:** | 0,317 | 0,370 |

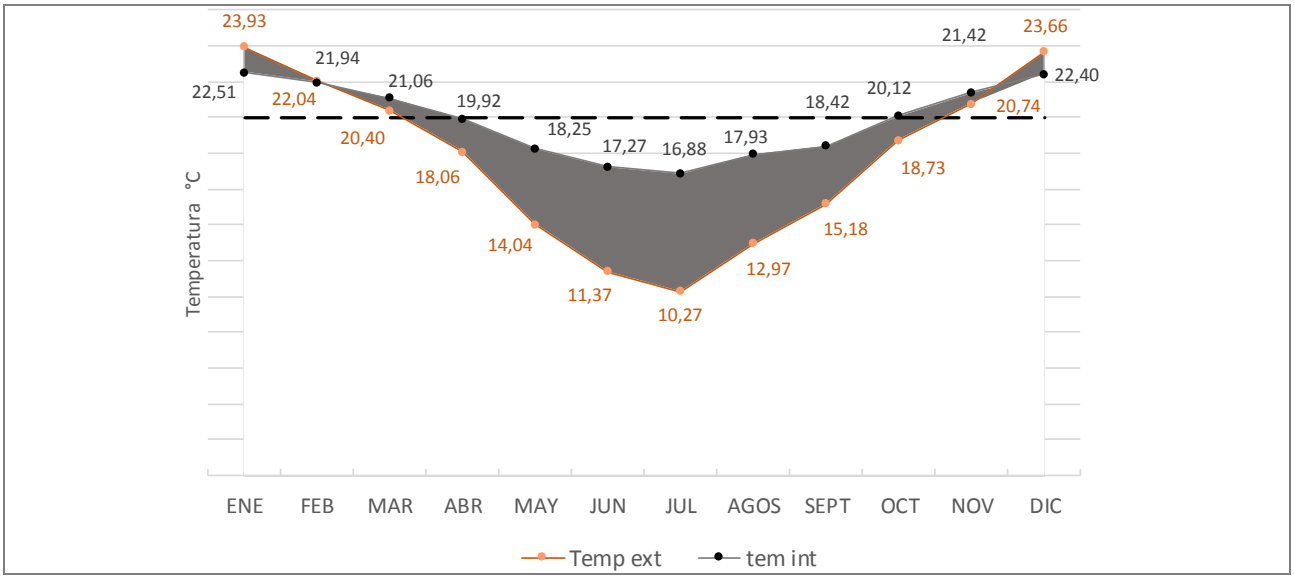
| BFR-002 | MU | BALLON FRAME |
|---|---|---|

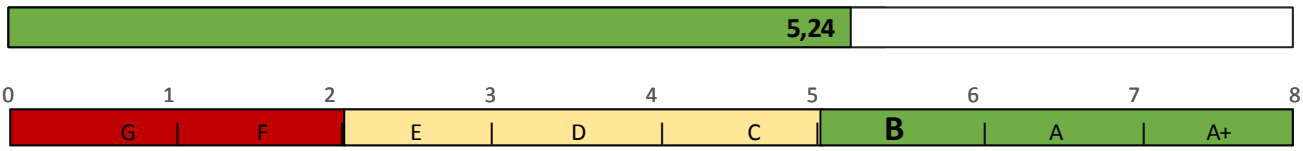
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,83** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,41** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



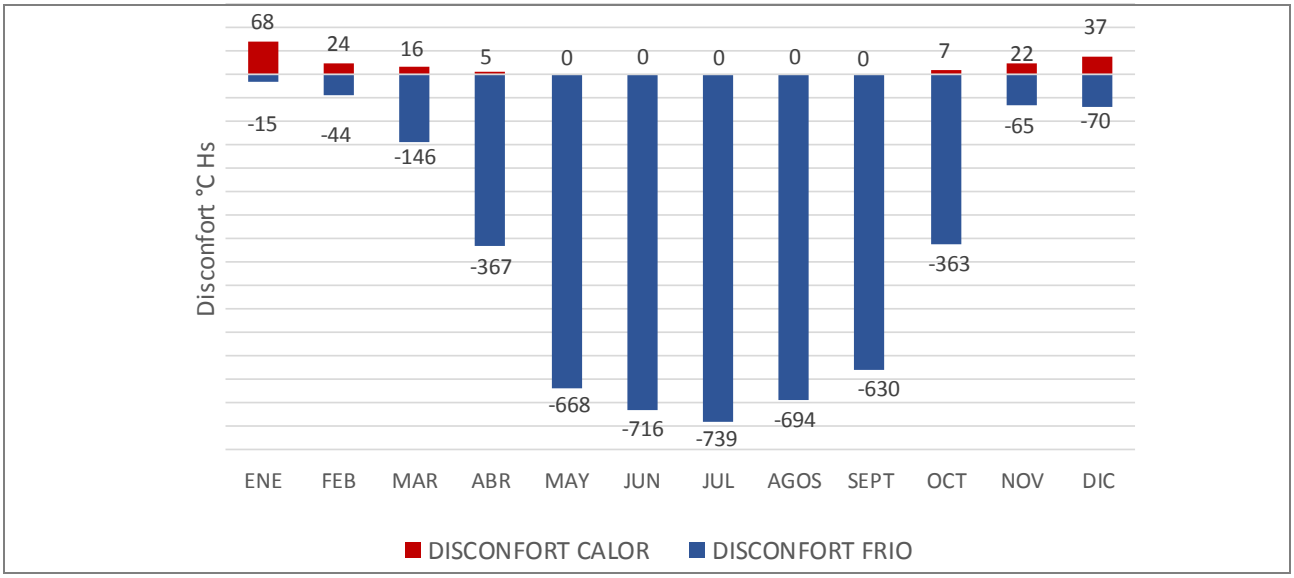




5,24 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| BFR-002 | MU | BALLON FRAME |
|---|---|---|

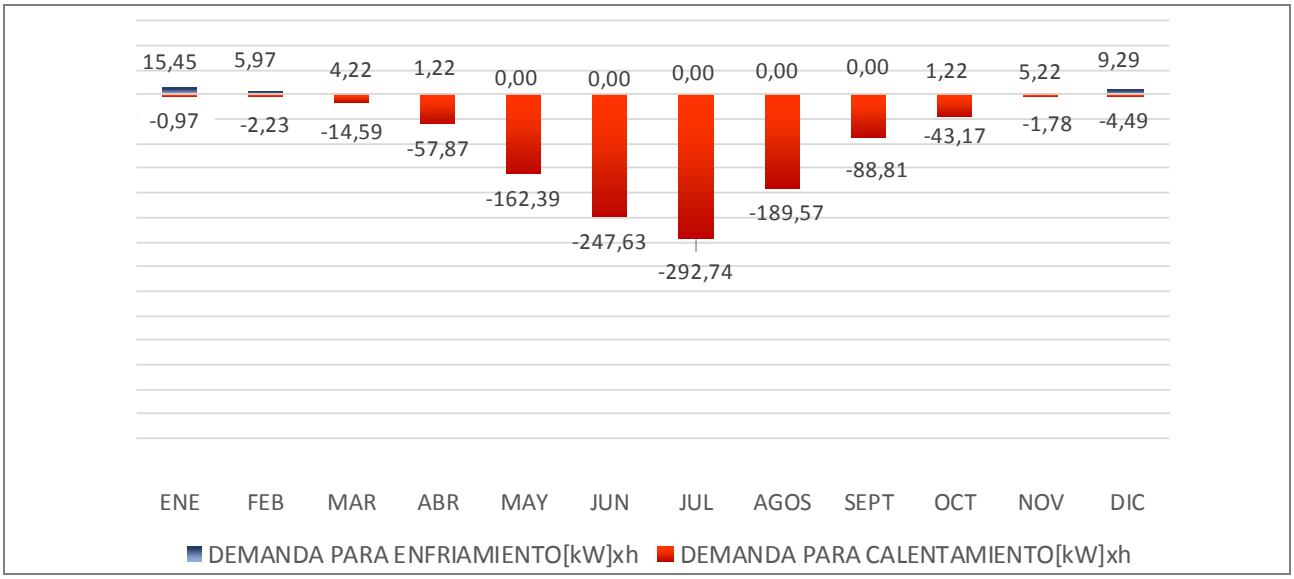
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **179** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.517** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.697** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

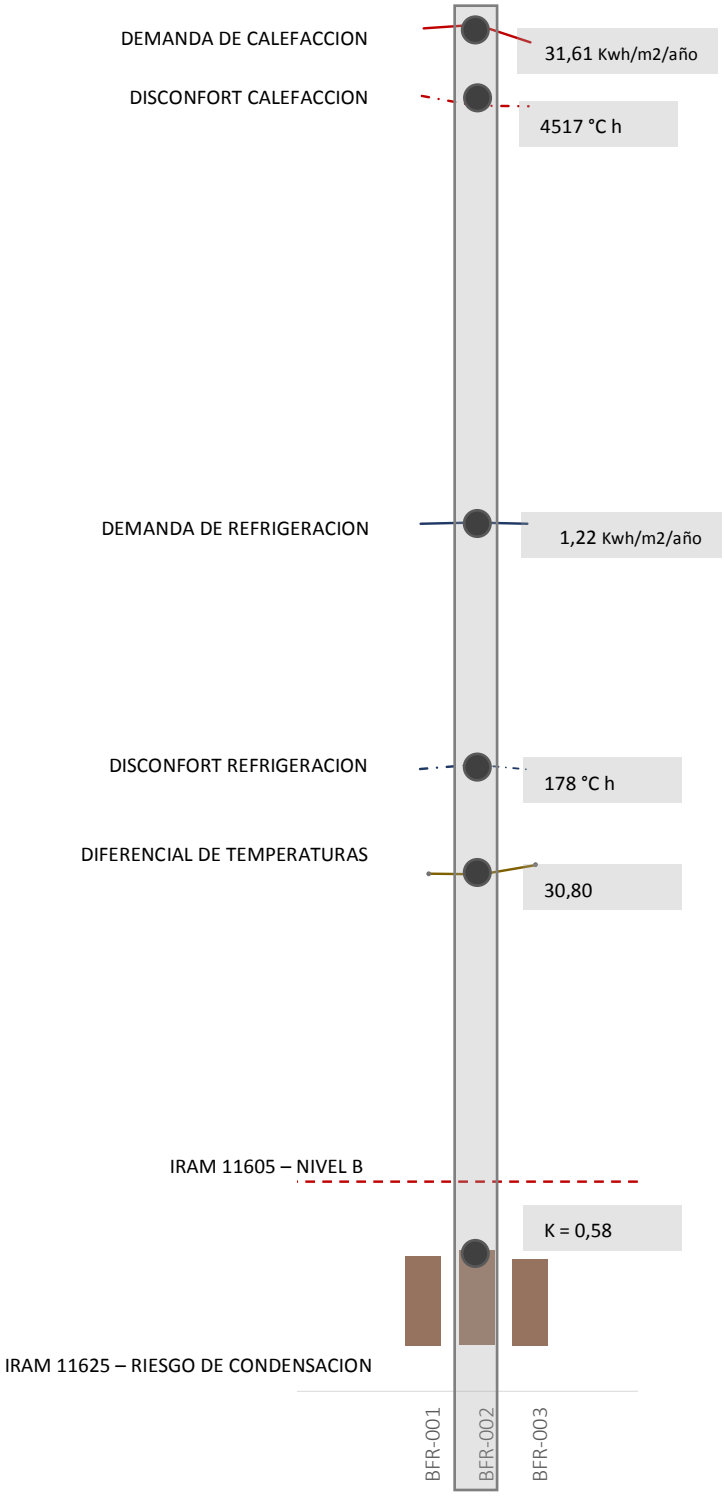



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,58** | kWh | 1,22 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.106,24** | kWh | 31,61 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.148,82** | kWh | **32,82** | kWh/m2/año |

| BFR-002 | MU | BALLON FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 134 | N° 132 | N° 108 | N° 064 | N° 073 | N° 108 |



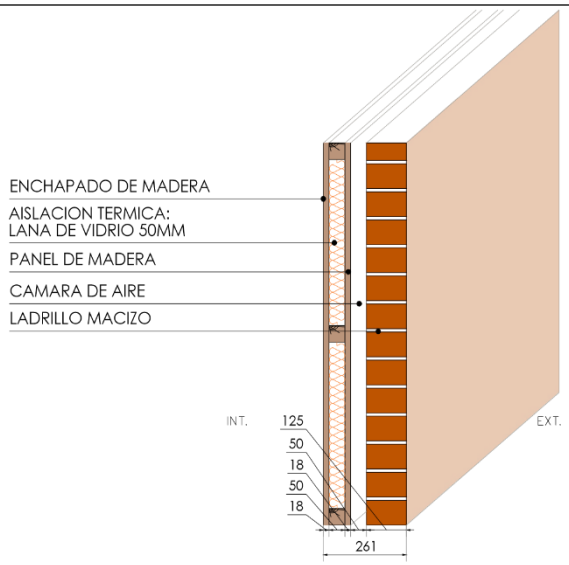

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,55 | 0% | 30,57 | 32,30 | 1,01 | 4505 | 150 |
| INDIVIDUAL | 0,58 | 0% | 30,80 | 31,61 | 1,22 | 4517,00 | 179,00 |
| INC. FAMILIA | 105,45% | 0% | 100,74% | 97,87% | 120,39% | 100,26% | 119,07% |
| INC. MUNDIAL | 48,76% | 0% | 99,96% | 76,86% | 20,33% | 101,24% | 35,02% |

| BFR-003 | MU | BALLON FRAME |
|---|---|---|

MADERA- LADRILLO MACIZO

## INDICE DE TRANSMITANCIA TERMICA "K"

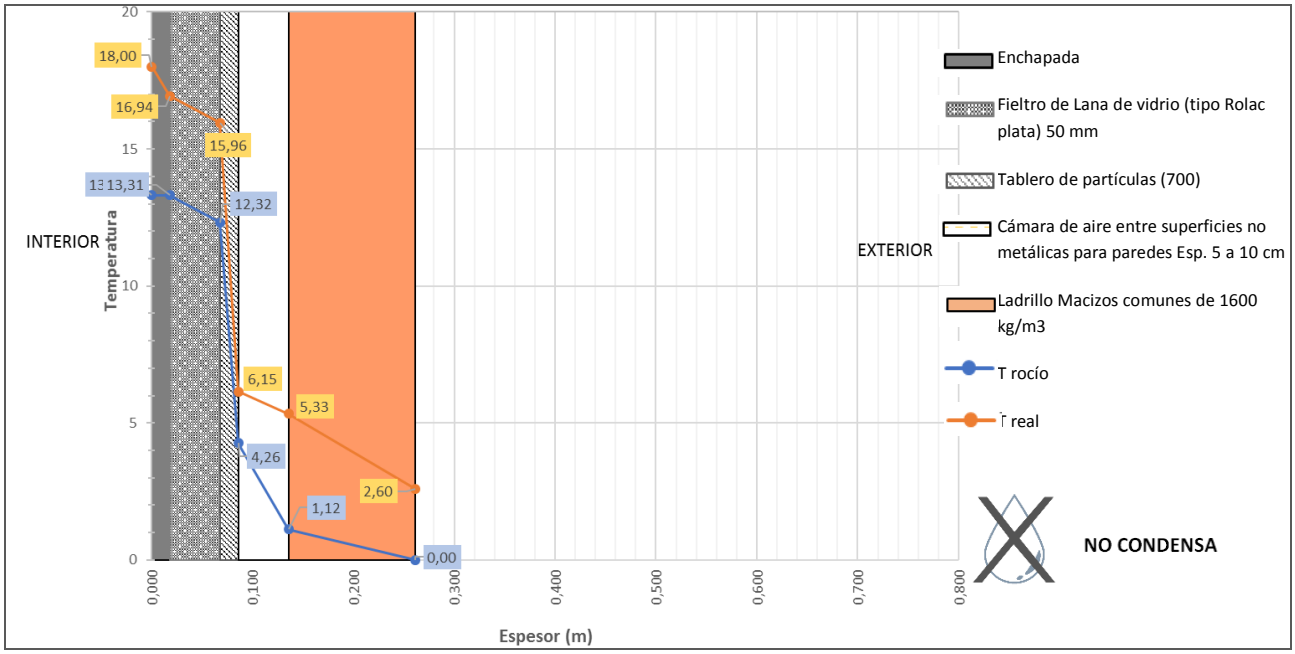
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,53 | 0,53 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



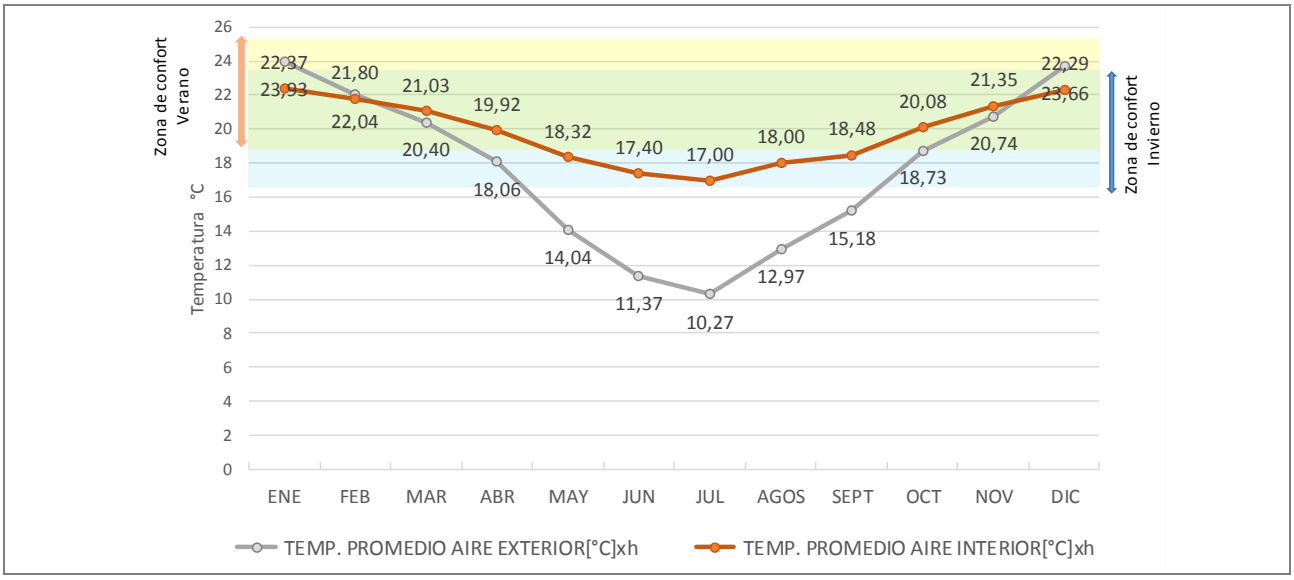

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 15,0 | 5,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,2** | **5,7** |
| | **Amortiguamiento:** | 0,033 | 0,121 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,8** | **4,6** |
| | **Amortiguamiento:** | 0,099 | 0,300 |

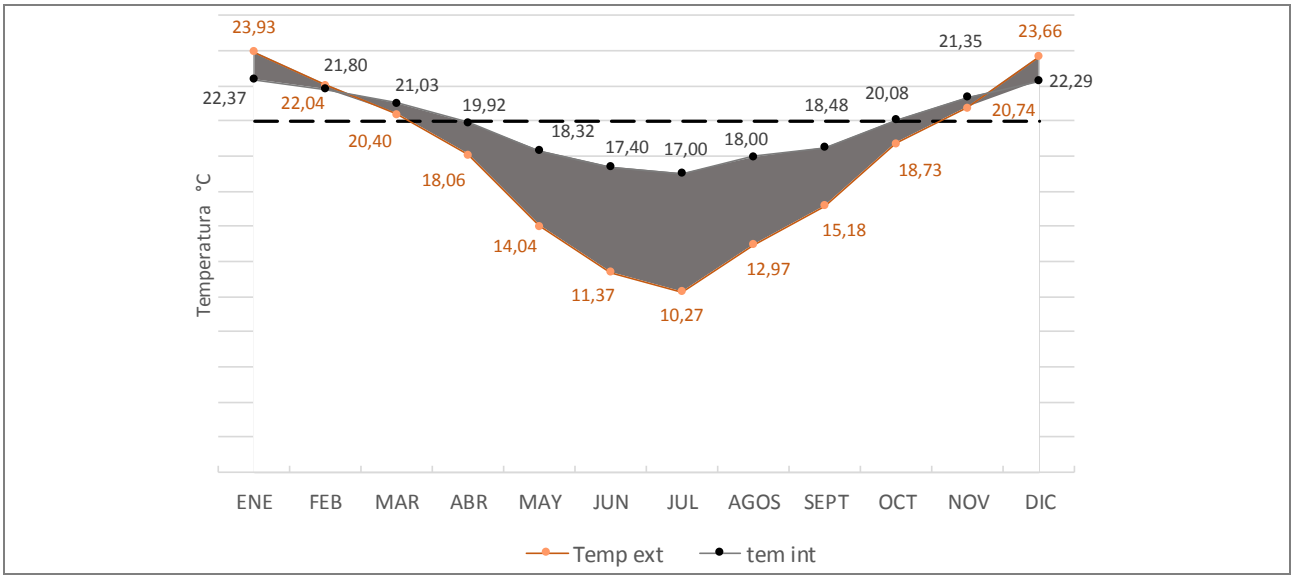
| BFR-003 | MU | BALLON FRAME |
|---|---|---|

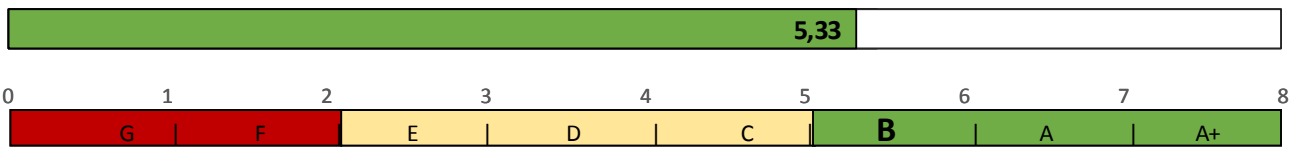
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 17:00 hs | **24,67** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **14,77** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



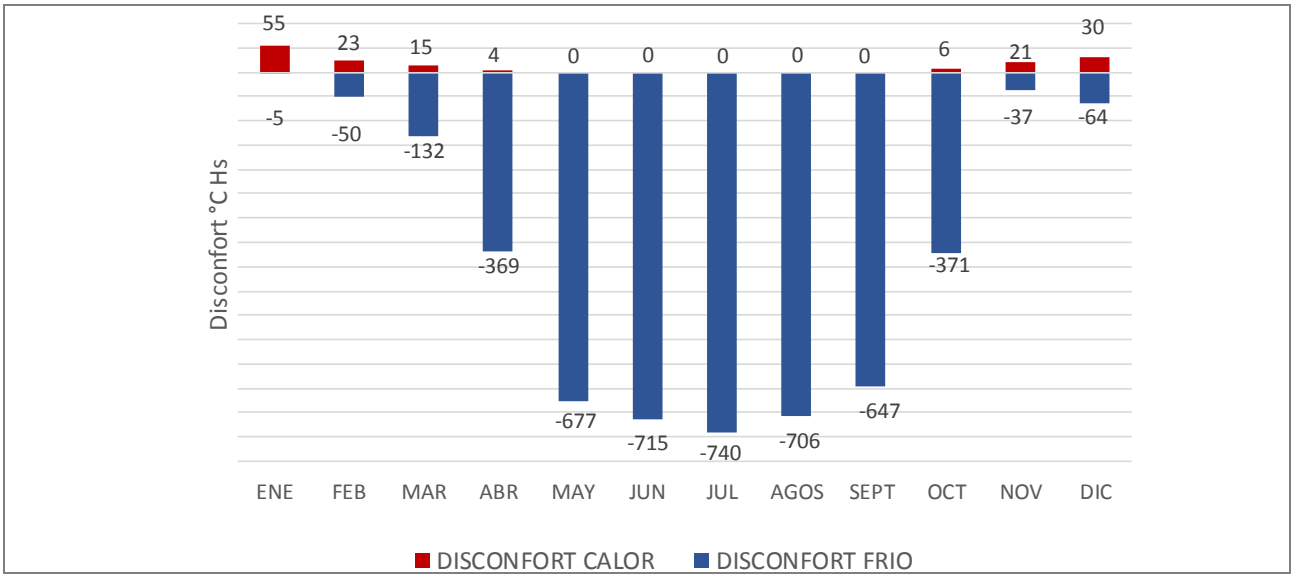




5,33 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| BFR-003 | MU | BALLON FRAME |
|---|---|---|

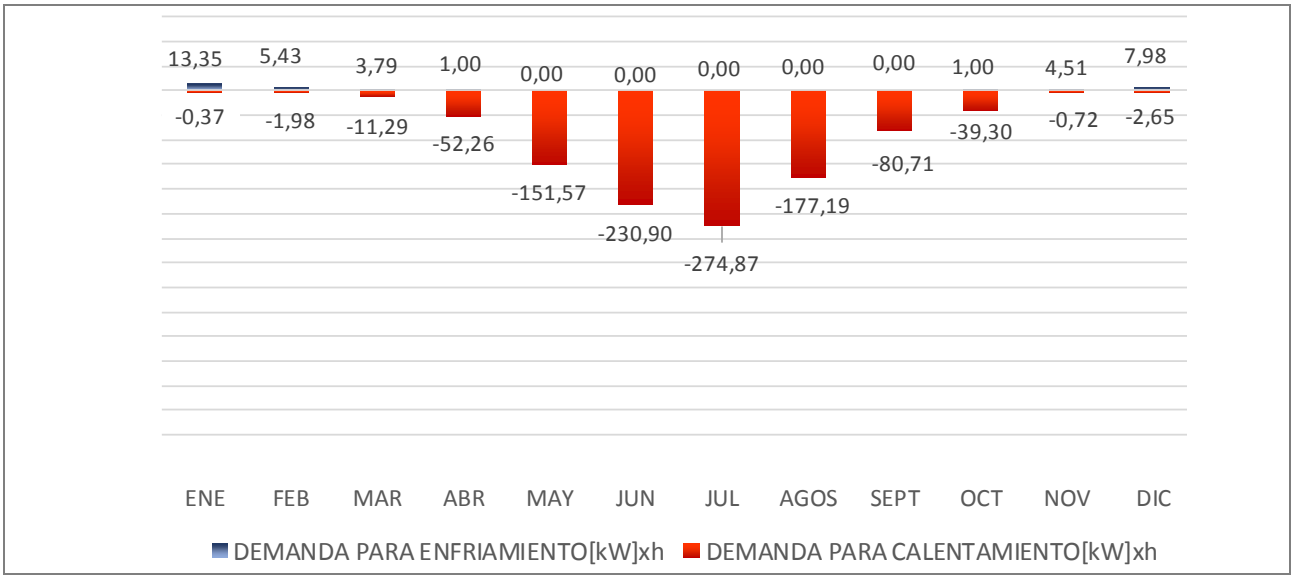
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **153** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.512** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.665** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

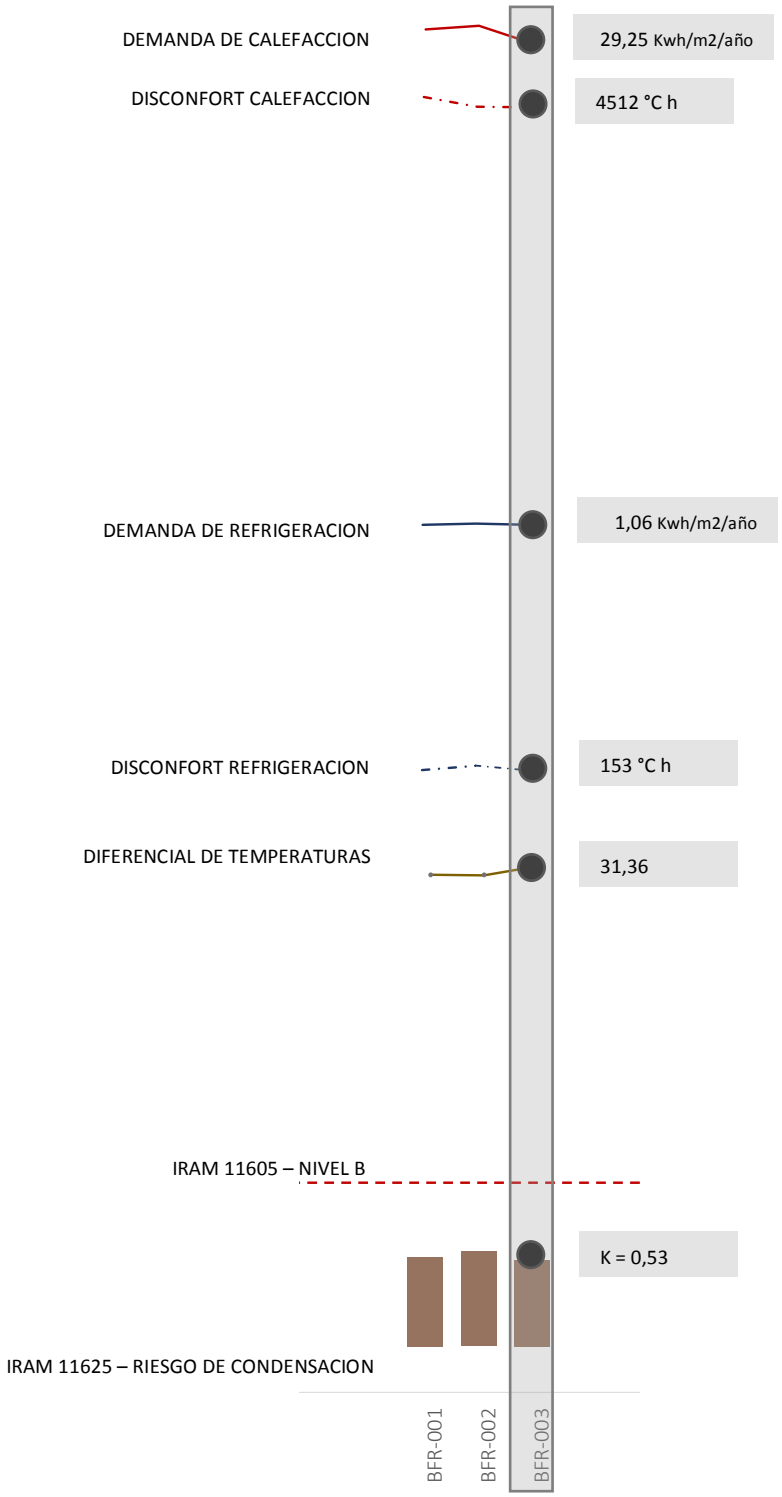



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **37.07** | kWh | 1,06 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.023,82** | kWh | 29,25 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.060.89** | kWh | **30,31** | kWh/m2/año |

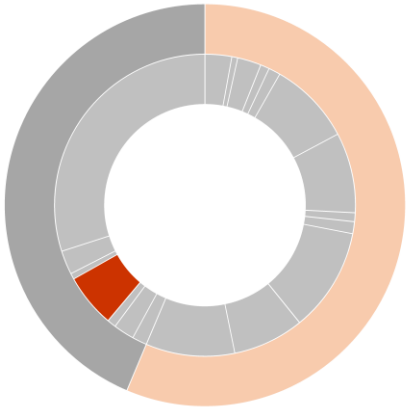
| BFR-003 | MU | BALLON FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 139 | N° 060 | N° 036 | N° 034 | N° 067 | N° 109 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,55 | 0% | 30,57 | 32,30 | 1,01 | 4505 | 150 |
| INDIVIDUAL | 0,53 | | 31,36 | 29,25 | 1,06 | 4512,00 | 153,00 |
| INC. FAMILIA | 96,36% | 0% | 102,57% | 90,57% | 104,61% | 100,15% | 101,77% |
| INC. MUNDIAL | 44,56% | 0% | 101,77% | 71,12% | 17,66% | 101,13% | 29,93% |



# FACHADA VENTILADA

**FVE 001**: FACHADA VENTILADA PANEL MADERA NATURAL Y PLACA DE YESO INTERIOR.

**FVE 002**: FACHADA LIVIANA PANEL DE ALUMINIO Y PLACA DE YESO INTERIOR**.**

**FVE 003**: FACHADA LIVIANA PLACA CEMENTO- PLACA DE YESO

**FVE 004**: FACHADA VENTILADA- PANEL MADERA NATURAL Y DURLOK INTERIOR.

**FVE 005**: PANEL MADERA NATURAL S/ LADRILLO TERMINACION ENLUCIDO.

**FVE 006**: FACHADA VENTILADA CON PLACA DE CEMENTO SOBRE MURO CON ENLUCIDO**.**

**FVE 007**: INTERIOR CHAPA LISA+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 50 MM+ CAMARA DE AIRE.

**FVE 008**: INTERIOR CHAPA LISA+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 70 MM+ CAMARA DE AIRE.

**FVE 009**: INTERIOR CHAPA LISA+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 100 MM+ CAMARA DE AIRE.

**FVE 010**: INTERIOR CHAPA LISA+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 150 MM + CAMARA DE AIRE.

**FVE 011**: INTERIOR TABIQUE H° A° IN SITU+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 50 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9 MM.

**FVE 012**: INTERIOR TABIQUE H° A° IN SITU+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 70 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9MM

**FVE 013**: INTERIOR TABIQUE H° A° IN SITU+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 100 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD.

**FVE 014**: INTERIOR TABIQUE H° A° IN SITU+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 150 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD.

**FVE 015**: INTERIOR MURO LADRILLO CERAMICO PORTANTE 18 CM REVOCADO AMBAS CARAS + AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 50 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9 MM.

**FVE 016**: INTERIOR MURO LADRILLO CERAMICO PORTANTE 18 CM REVOCADO AMBAS CARAS + AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 70 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9 MM.

**FVE 017**: INTERIOR MURO LADRILLO CERAMICO PORTANTE 18 CM REVOCADO AMBAS CARAS + AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 100 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9 MM

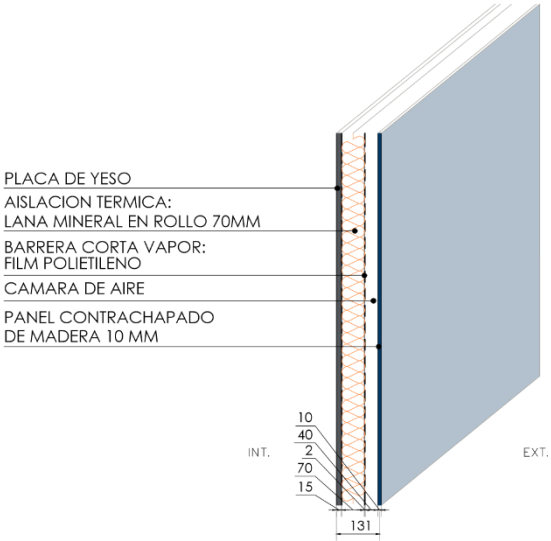
**FVE 018**: INTERIOR MURO LADRILLO CERAMICO PORTANTE 18 CM REVOCADO AMBAS CARAS + AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 150 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9 MM.

| FVE-001 | MU | FACHADA VENTILADA |
|---|---|---|

FACHADA VENTILADA PANEL MADERA NATURAL Y PLACA DE YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

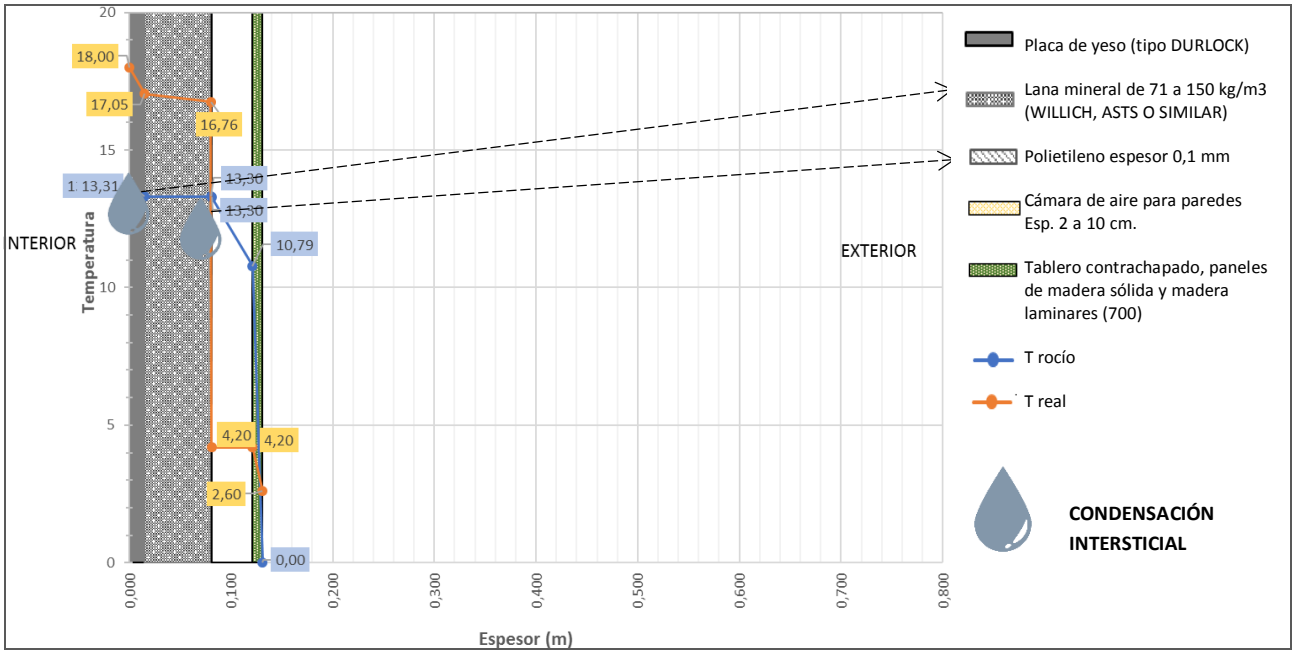
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,48 | 0,48 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



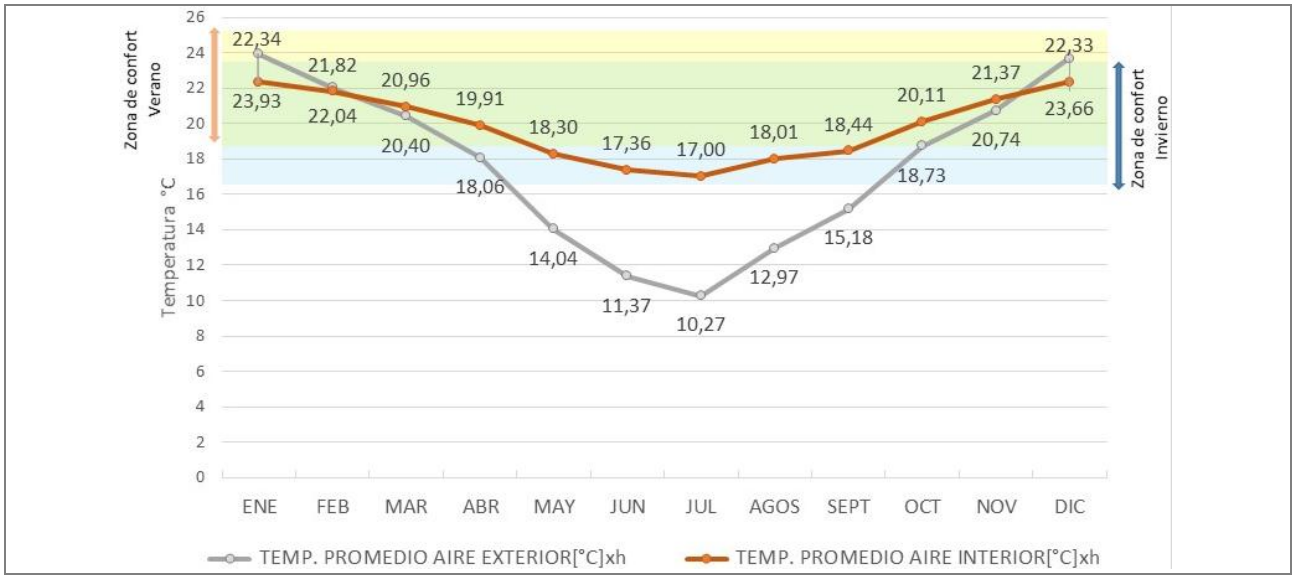

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,6 | 1,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,3** | **3,7** |
| | **Amortiguamiento:** | 0,293 | 0,257 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,4** | **3,6** |
| | **Amortiguamiento:** | 0,411 | 0,393 |

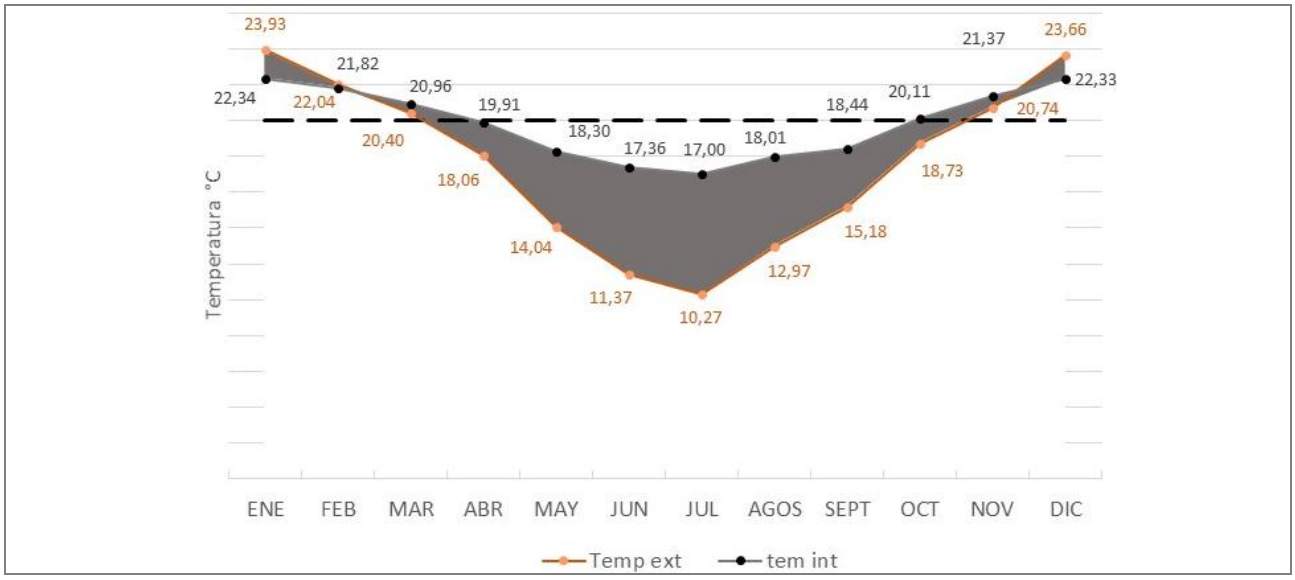
| FVE-001 | MU | FACHADA VENTILADA |
|---|---|---|

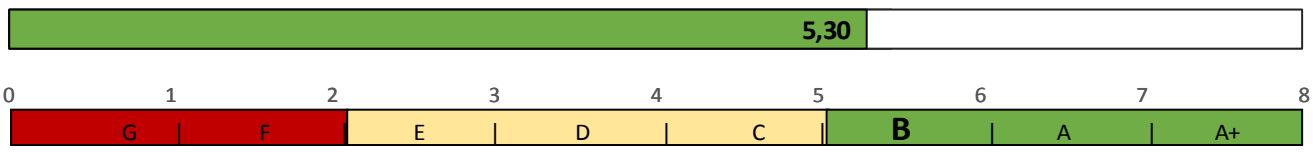
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 19:00 hs | **25,32** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 09:00 hs | **14,18** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



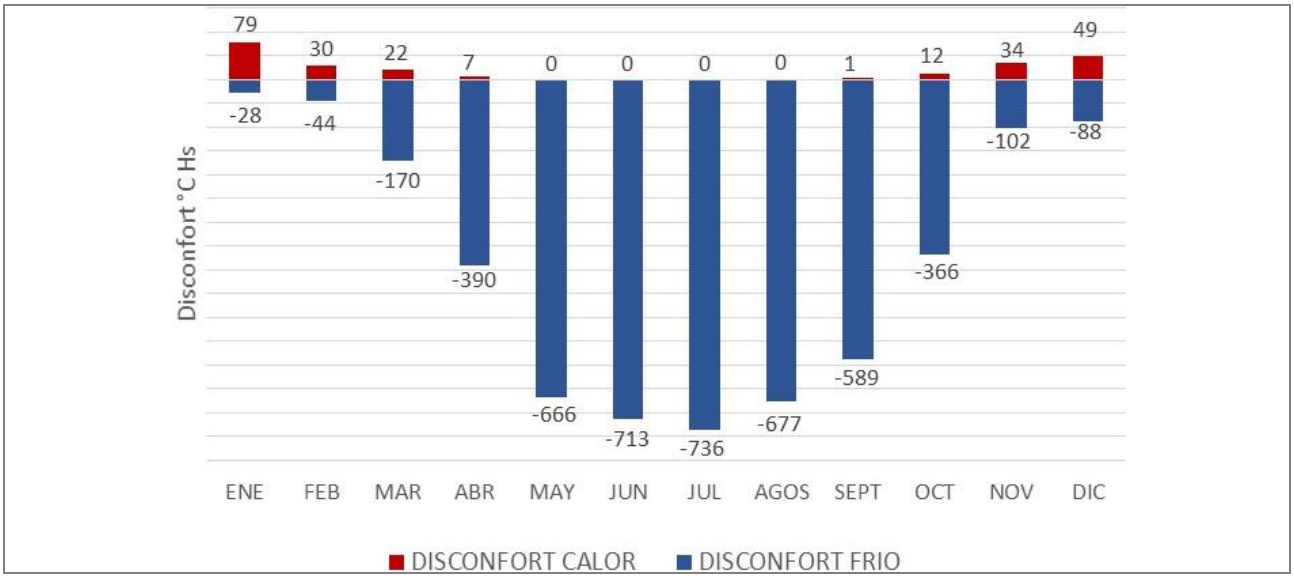




5,30 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| FVE-001 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

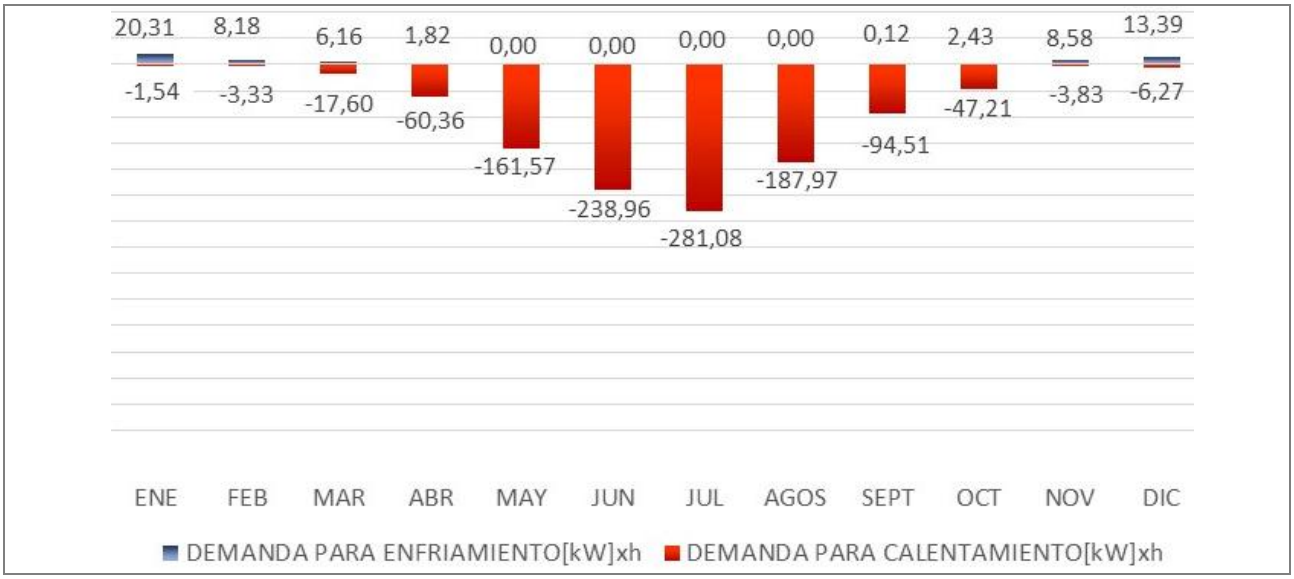
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **234** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.568** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.802** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

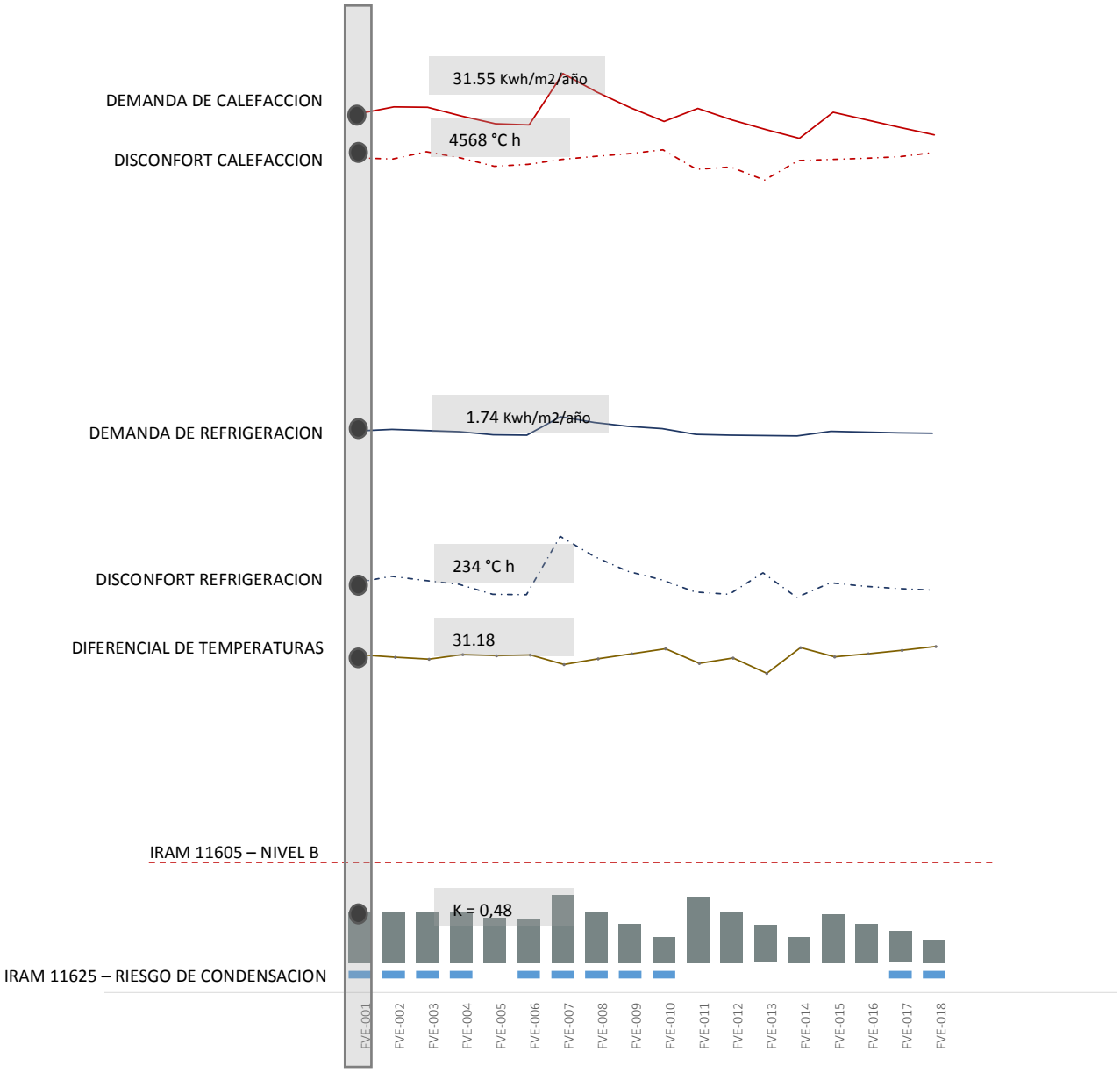



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **61,00** | kWh | 1,74 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.104,23** | kWh | 31,55 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **2.165,23** | kWh | **33,29** | kWh/m2/año |

| FVE-001 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 110 | N° 091 | N° 107 | N° 137 | N° 119 | N° 124 |



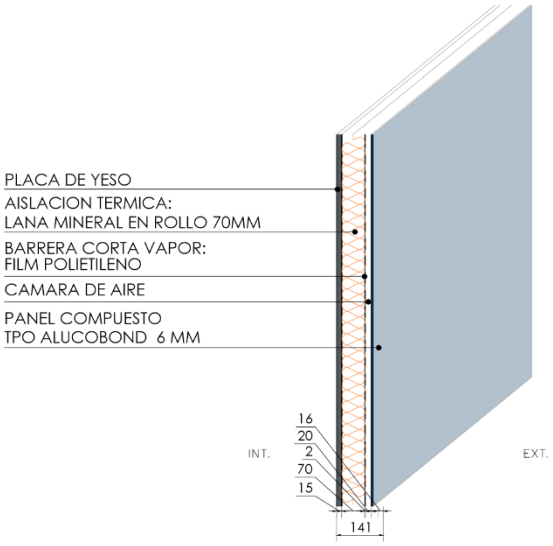

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,48 | 100% | 31,18 | 31,55 | 1,74 | 4568 | 234 |
| INC. FAMILIA | 114,89% | 164% | 100,40% | 101,35% | 100,19% | 100,34% | 95,55% |
| INC. MUNDIAL | 40,36% | 357% | 101,19% | 76,72% | 28,99% | 102,39% | 45,78% |

| FVE-002 | MU | FACHADA VENTILADA |
|---|---|---|

FACHADA LIVIANA PANEL DE ALUMINIO Y PLACA DE YESO INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

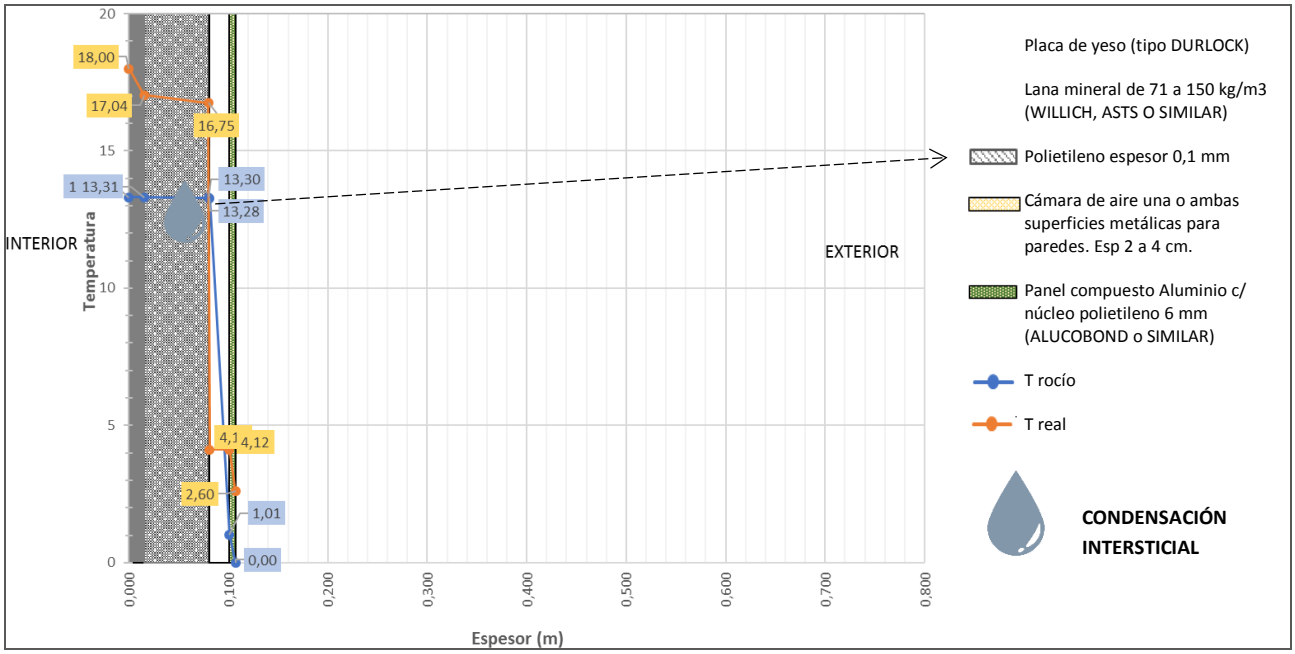
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,48 | 0,48 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | 1,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | **3,7** |
| | **Amortiguamiento:** | 1,000 | 0,258 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **1,0** | **3,5** |
| | **Amortiguamiento:** | 0,774 | 0,399 |

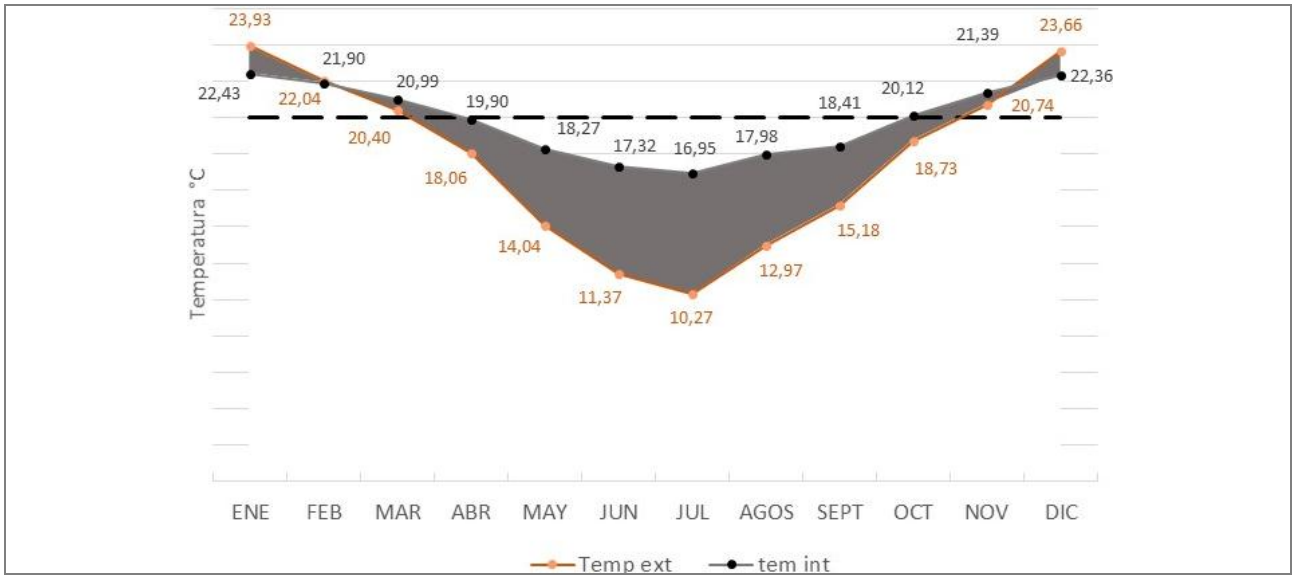
| FVE-002 | MU | FACHADA VENTILADA |
|---|---|---|

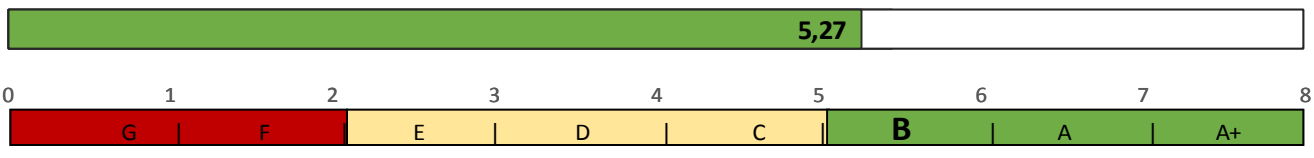
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 18:00 hs | **25,70** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 09:00 hs | **13,83** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



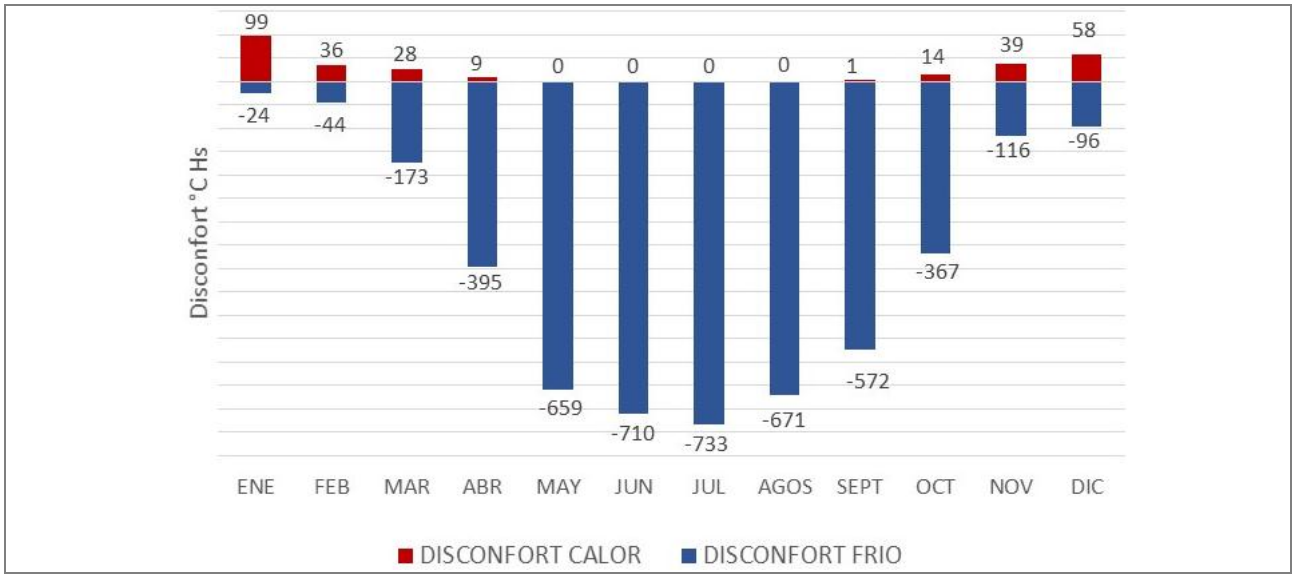




5,27 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| FVE-002 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

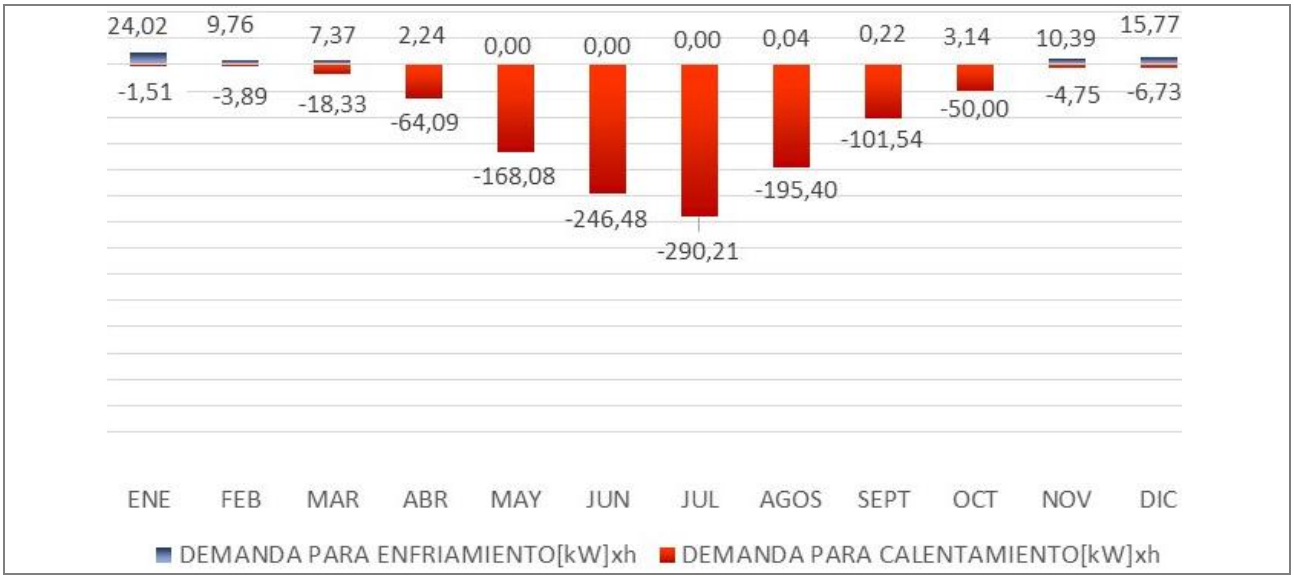
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **284** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.559** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.843** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

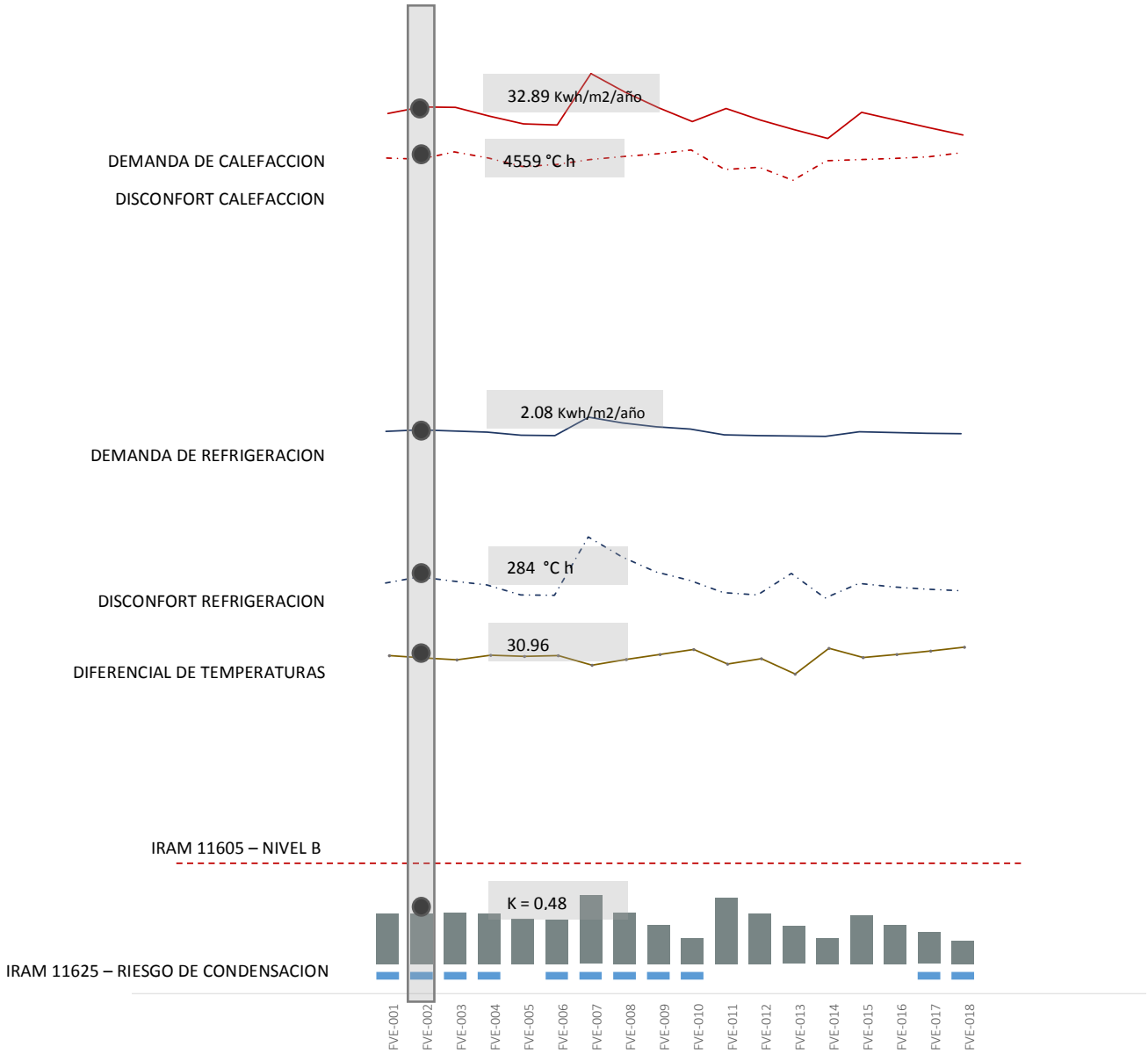



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **72,95** | kWh | 2,08 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.151,02** | kWh | 32,89 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.223,97** | kWh | **34,97** | kWh/m2/año |

| FVE-002 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 111 | N° 113 | N° 130 | N° 150 | N° 114 | N° 138 |



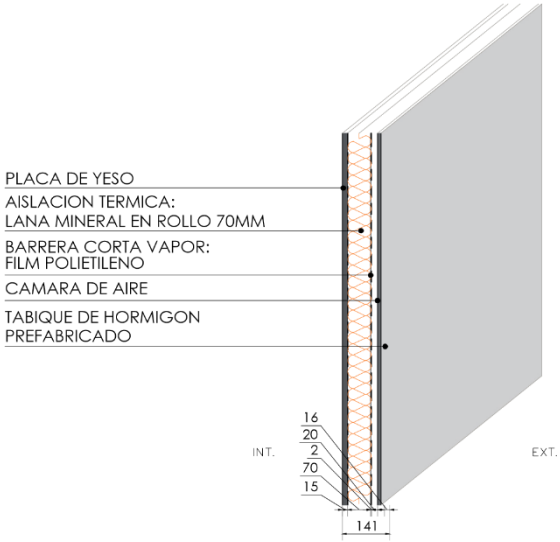

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,48 | 100% | 30,96 | 32,89 | 2,08 | 4559,00 | 284,00 |
| INC. FAMILIA | 114,89% | 164% | 99,69% | 105,66% | 119,77% | 100,14% | 115,97% |
| INC. MUNDIAL | 40,36% | 357% | 100,47% | 79,97% | 34,66% | 102,18% | 55,56% |

| FVE-003 | MU | FACHADA VENTILADA |
|---|---|---|

FACHADA LIVIANA PLACA CEMENTO- PLACA DE YESO

## INDICE DE TRANSMITANCIA TERMICA "K"

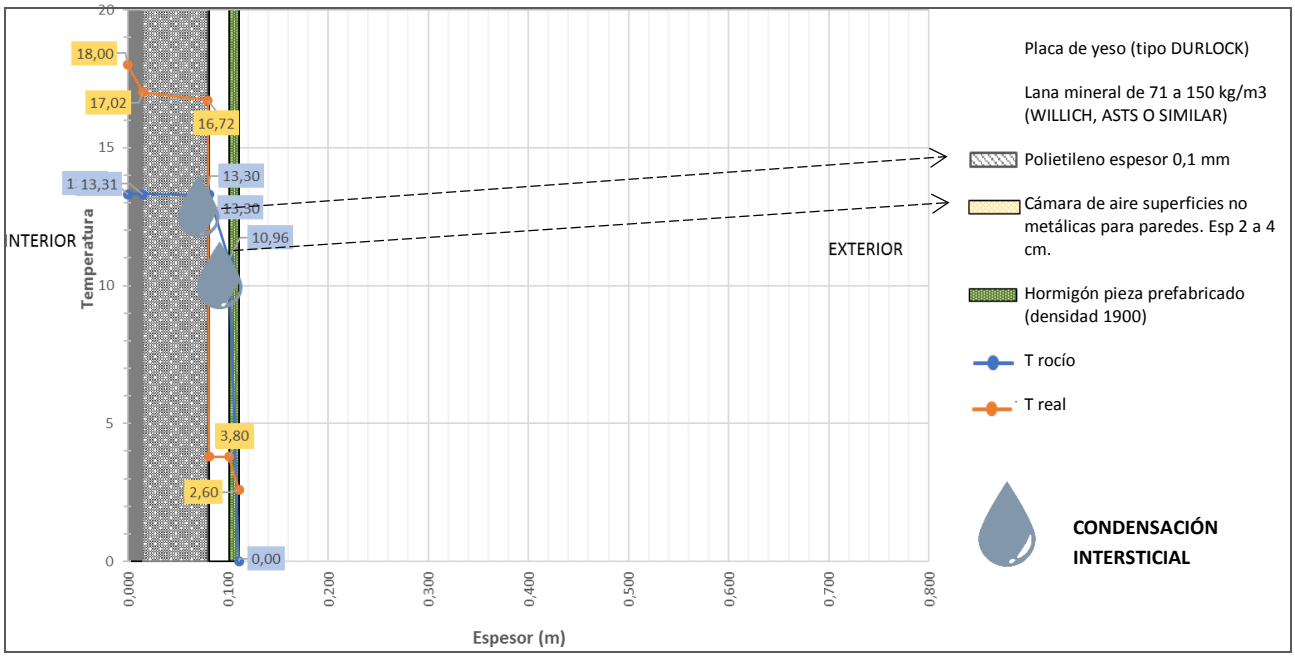
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,49 | 0,49 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,1 | 2,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,6** | **3,6** |
| | **Amortiguamiento:** | 0,185 | 0,262 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,6** | **3,5** |
| | **Amortiguamiento:** | 0,301 | 0,397 |

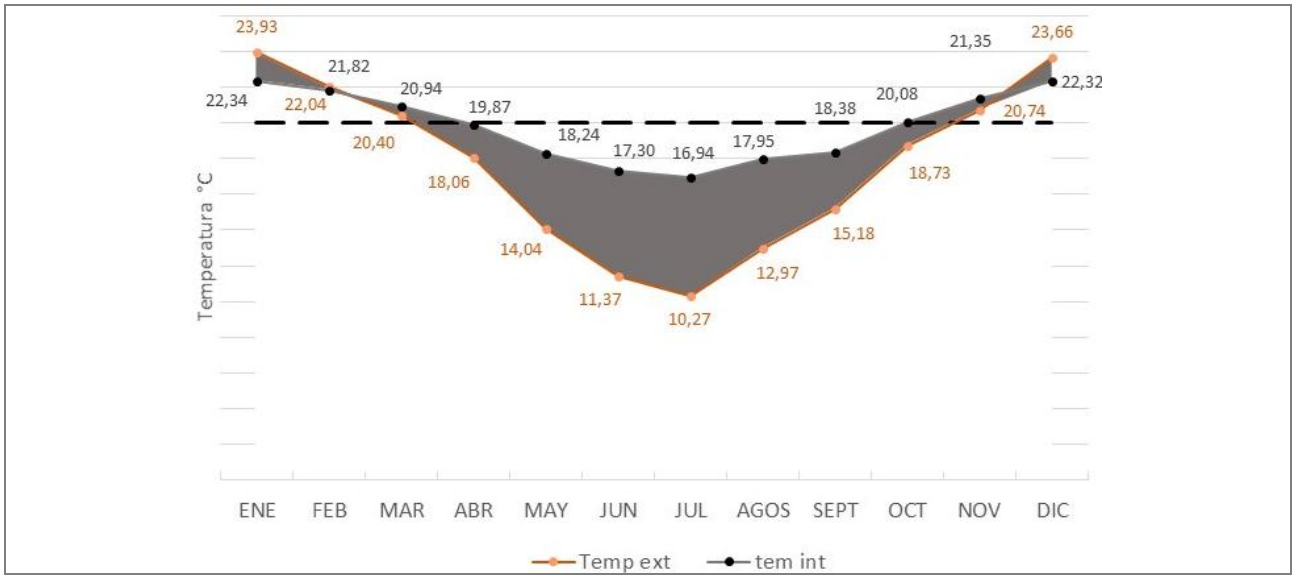
| FVE-003 | MU | FACHADA VENTILADA |
|---|---|---|

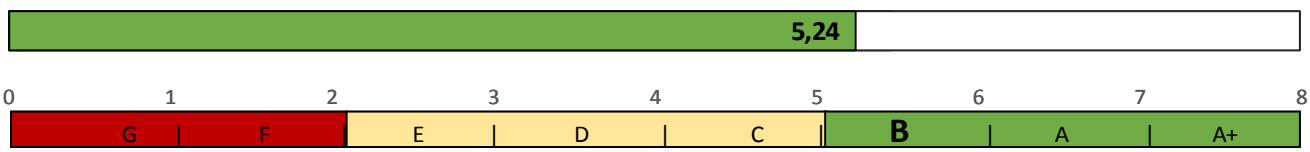
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 18:00 hs | **25,41** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 09:00 hs | **13,97** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



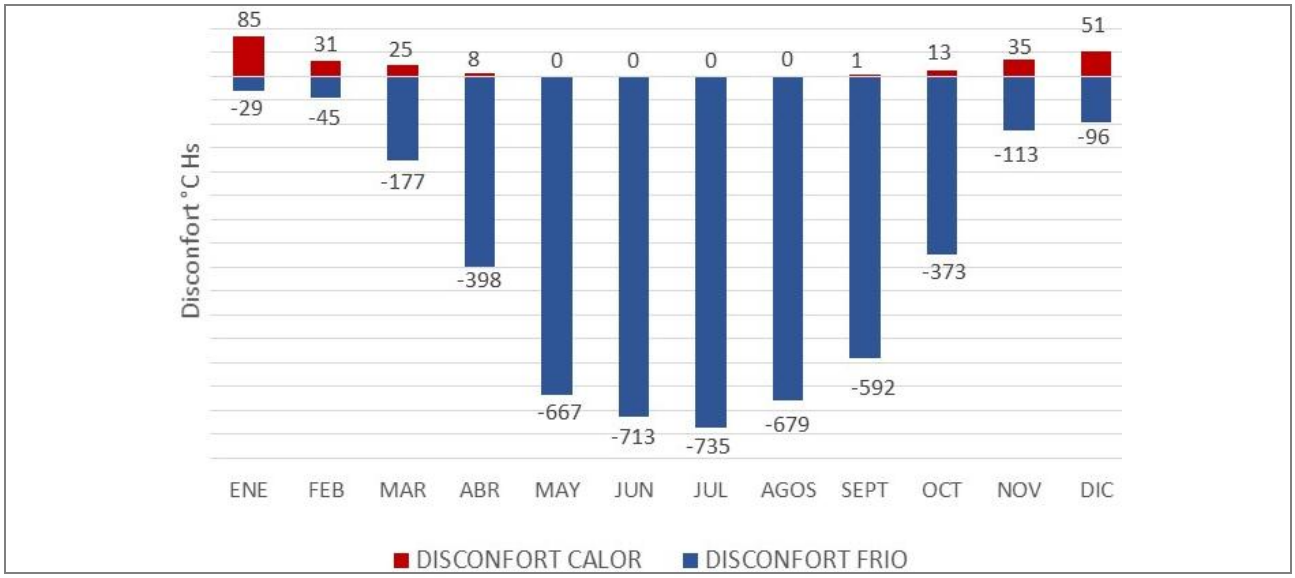




5,24 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| FVE-003 | MU | FACHADA VENTILADA |
|---|---|---|

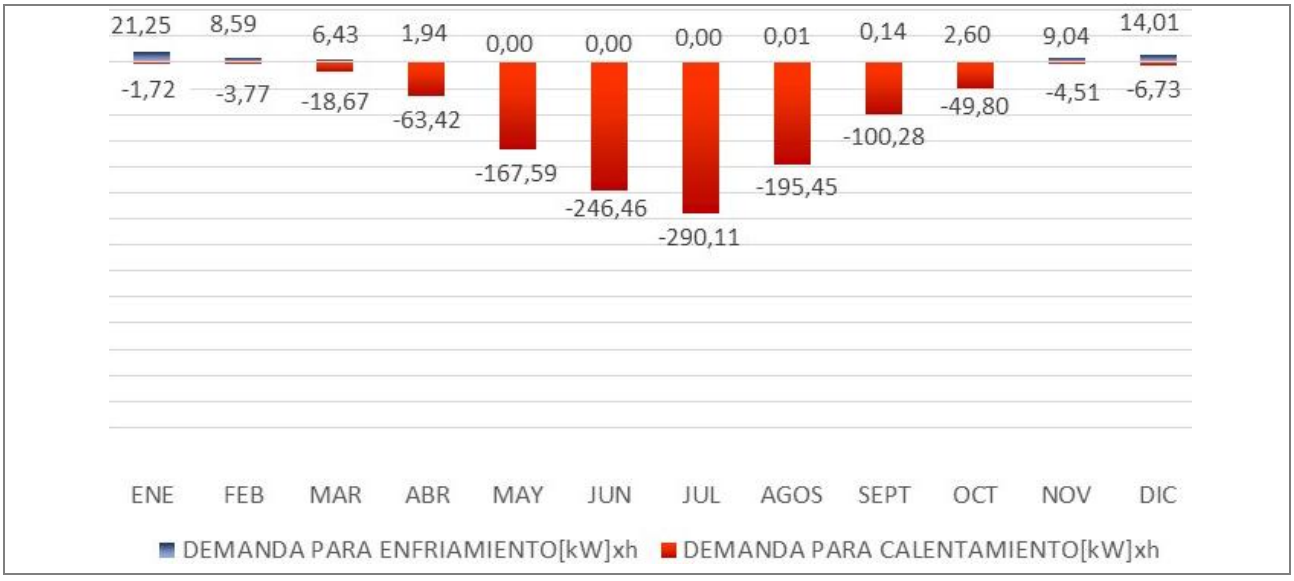
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **249** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.616** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.865** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

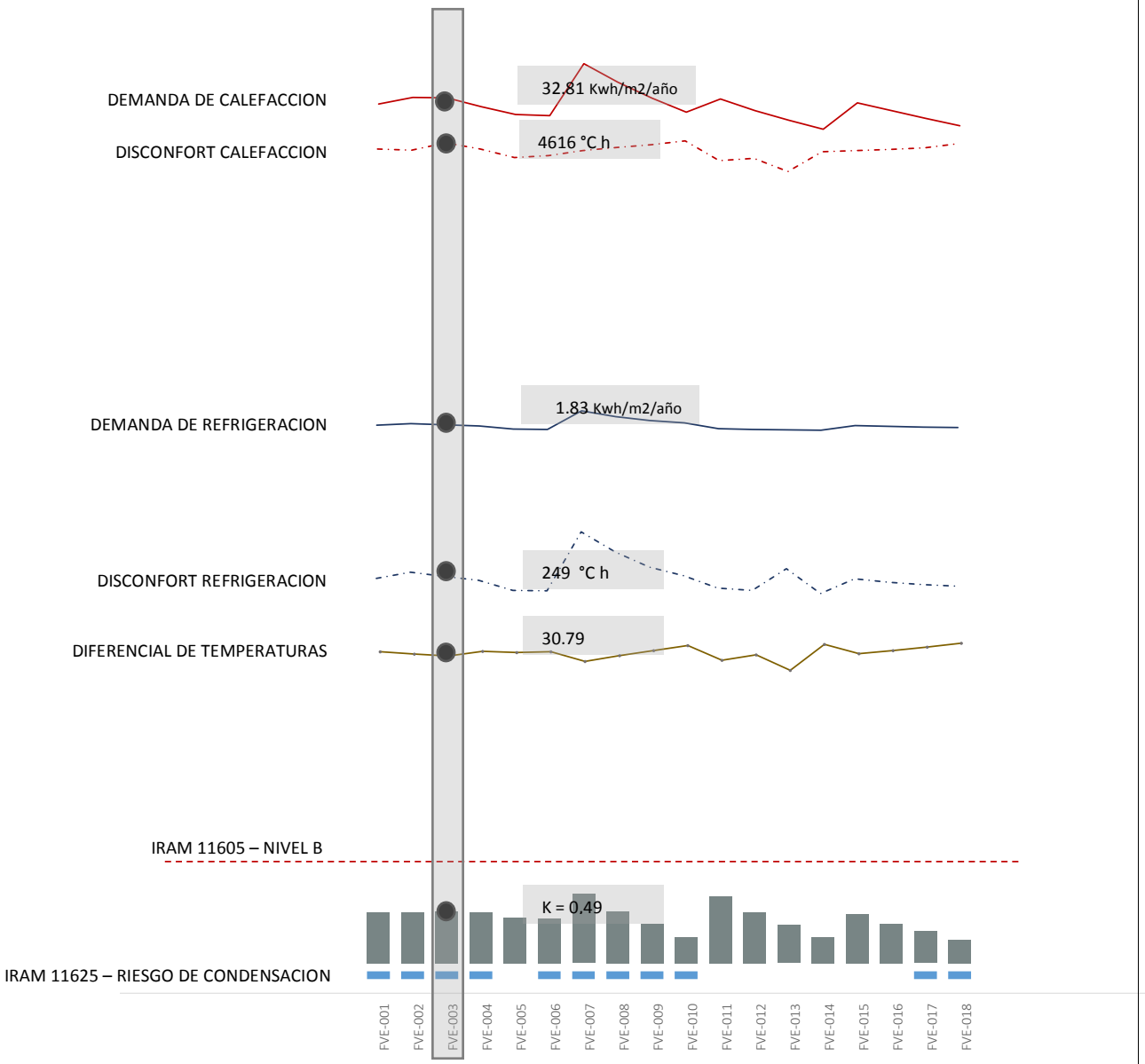



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **64,02** | kWh | 1,83 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.148,52** | kWh | 32,81 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.212,54** | kWh | **34,64** | kWh/m2/año |

| FVE-003 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 115 | N° 135 | N° 126 | N° 142 | N° 175 | N° 129 |



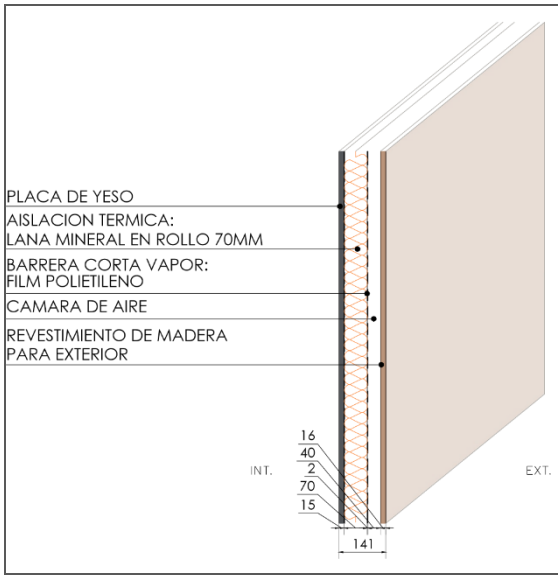

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,49 | 100% | 30,79 | 32,81 | 1,83 | 4616 | 249 |
| INC. FAMILIA | 117,29% | 164% | 99,15% | 105,40% | 105,37% | 101,39% | 101,68% |
| INC. MUNDIAL | 41,20% | 357% | 99,92% | 79,78% | 30,49% | 103,46% | 48,71% |

| FVE-004 | MU | FACHADA VENTILADA |
|---|---|---|

FACHADA VENTILADA- PANEL MADERA NATURAL Y DURLOK INTERIOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

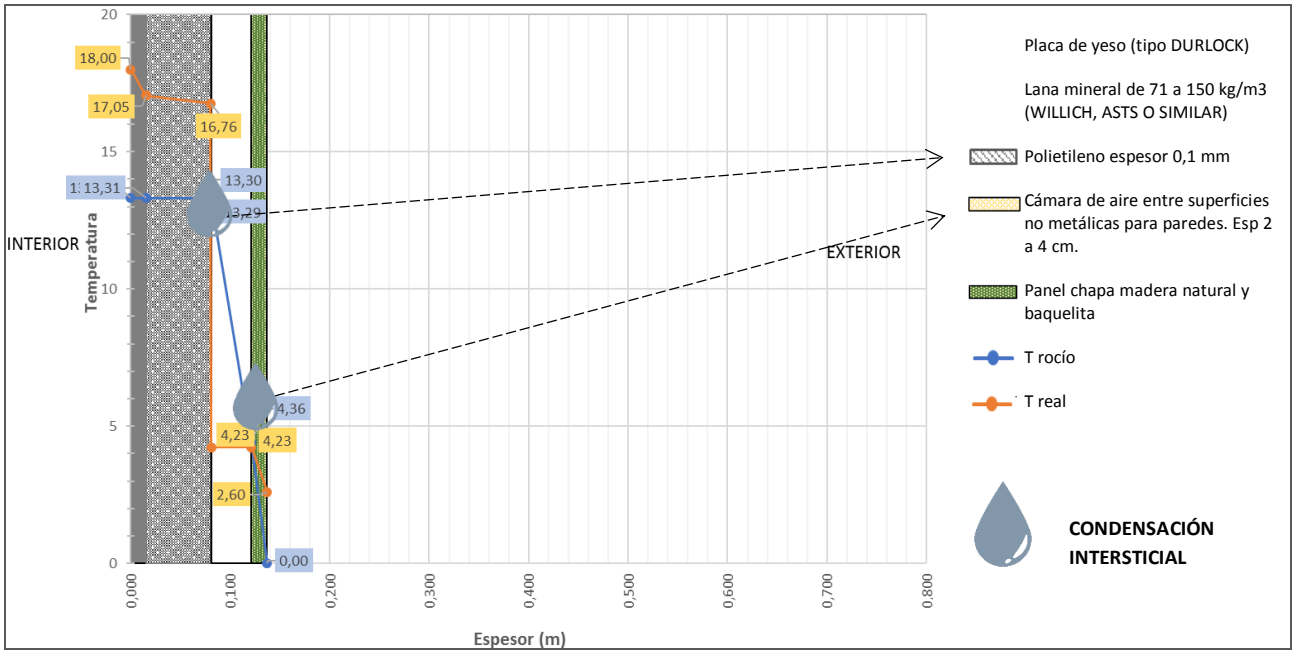
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,48 | 0,48 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



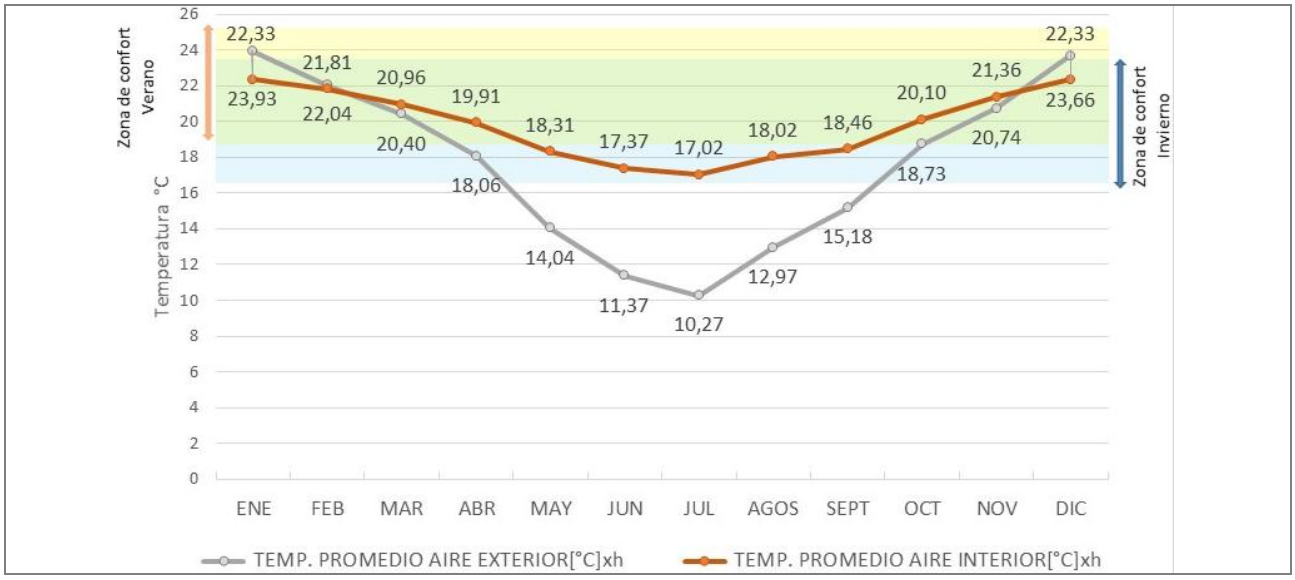

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,1 | 1,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,9** | **3,7** |
| | **Amortiguamiento:** | 0,239 | 0,256 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,9** | **3,6** |
| | **Amortiguamiento:** | 0,360 | 0,390 |

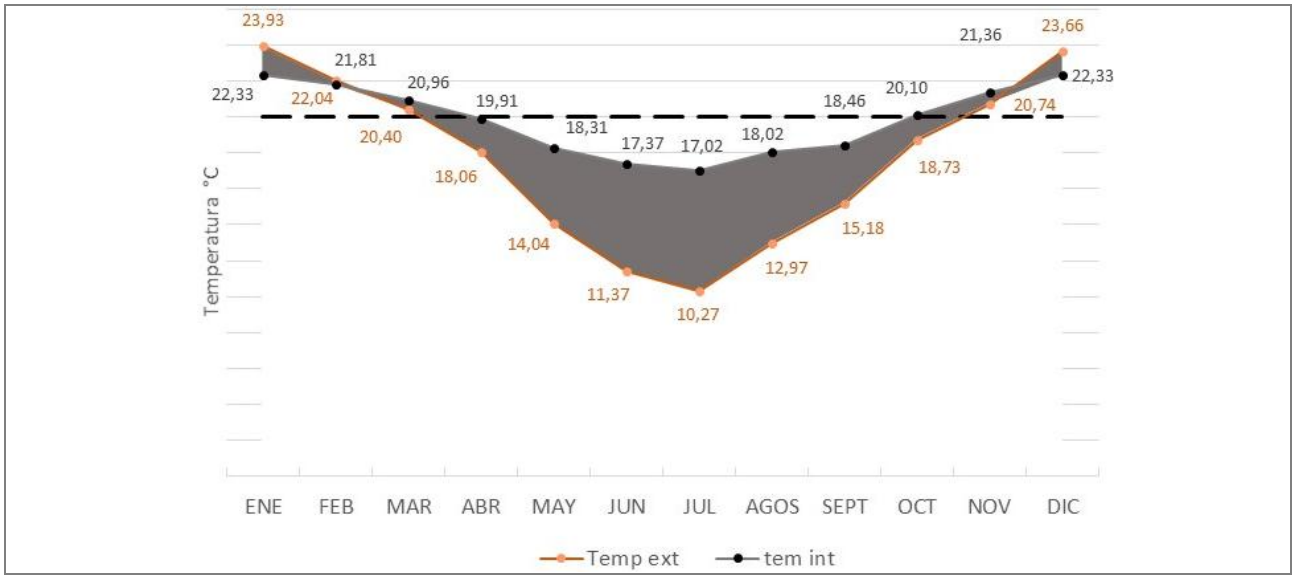
| FVE-004 | MU | FACHADA VENTILADA |
|---|---|---|

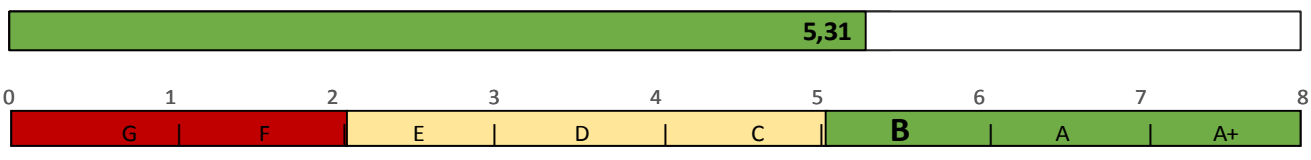
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 18:00 hs | **25,14** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 09:00 hs | **14,34** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



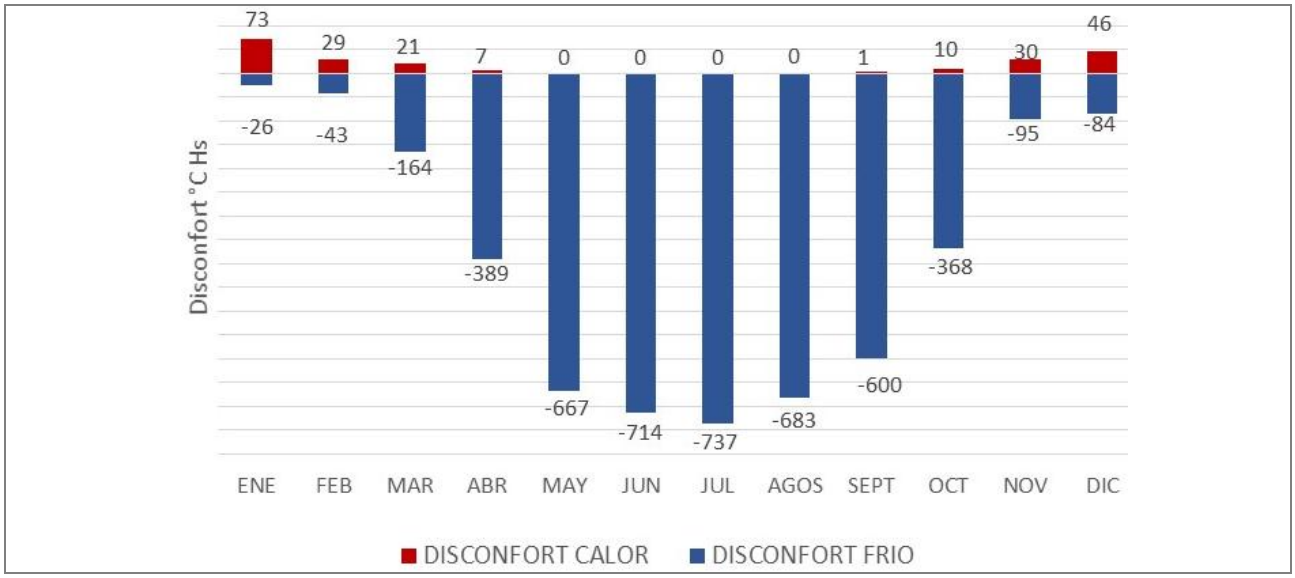




5,31 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| FVE-004 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

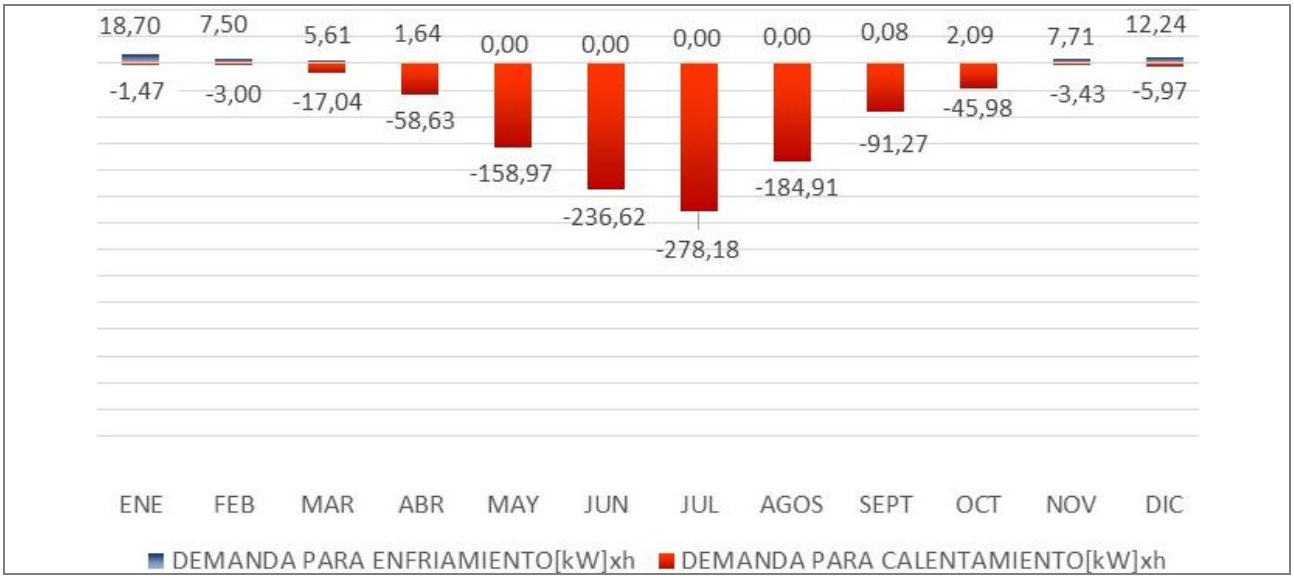
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **218** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.569** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.787** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

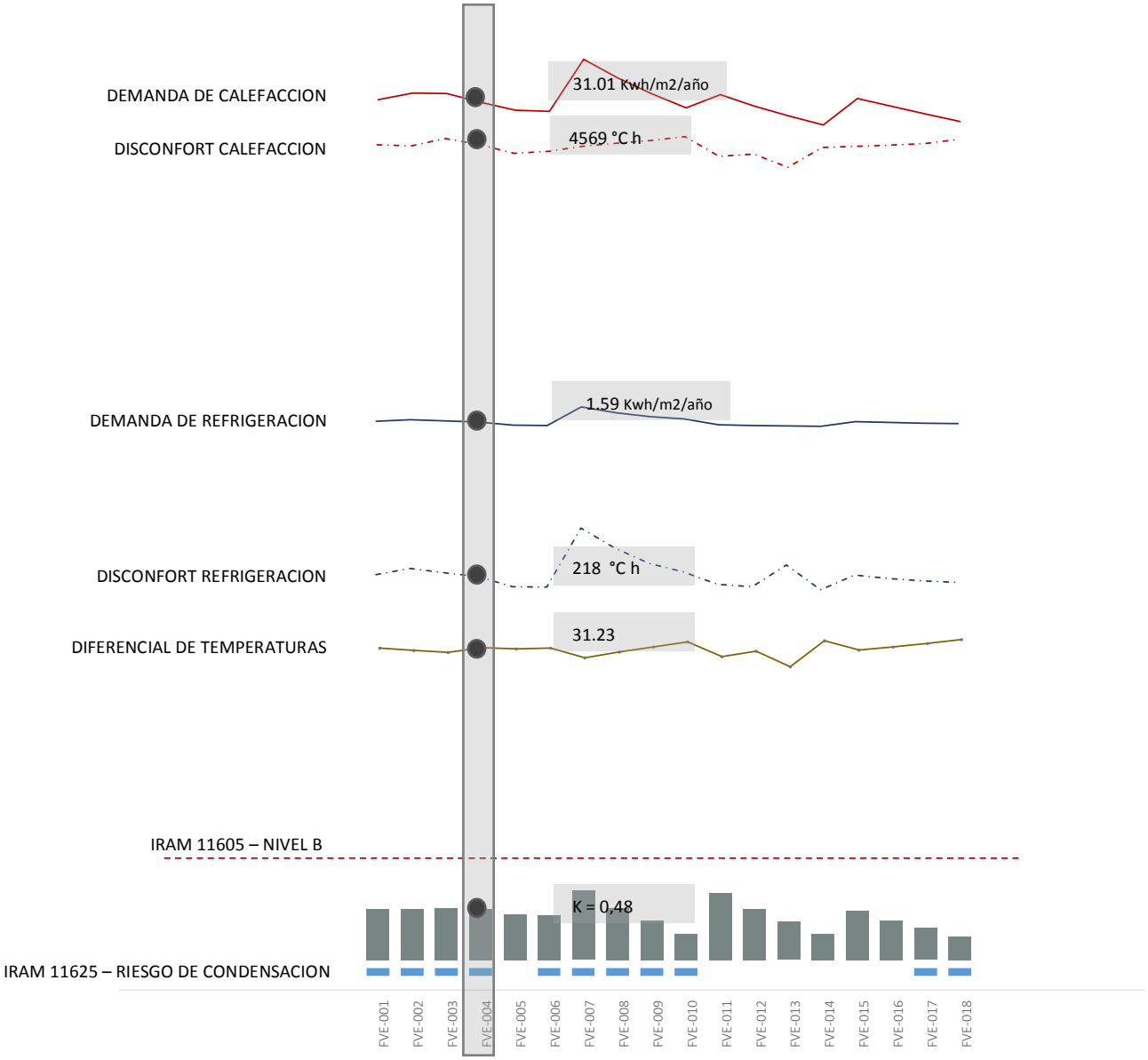



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **55,57** | kWh | 1,59 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.085,49** | kWh | 31,01 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.141,05** | kWh | **32,60** | kWh/m2/año |

| FVE-004 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 112 | N° 083 | N° 097 | N° 121 | N° 121 | N° 112 |



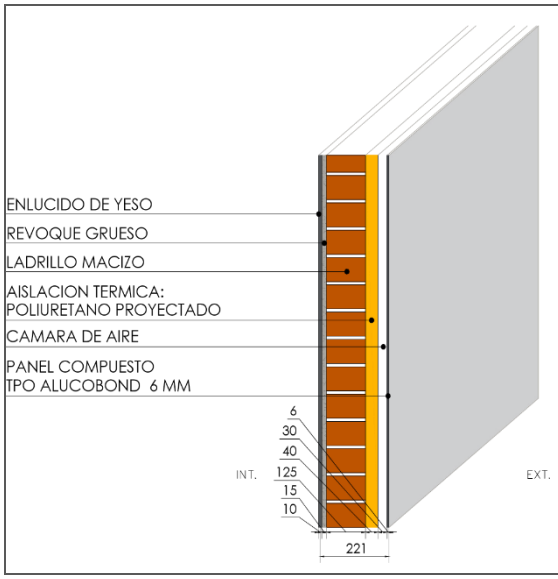

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,48 | 100% | 31,23 | 31,01 | 1,59 | 4569,00 | 218,00 |
| INC. FAMILIA | 114,89% | 164% | 100,56% | 99,62% | 91,55% | 100,36% | 89,02% |
| INC. MUNDIAL | 40,36% | 357% | 101,35% | 75,40% | 26,49% | 102,41% | 42,65% |

| FVE-005 | MU | FACHADA VENTILADA |
|---|---|---|

PANEL MADERA NATURAL S/ LADRILLO TERMINACION ENLUCIDO.

## INDICE DE TRANSMITANCIA TERMICA "K"

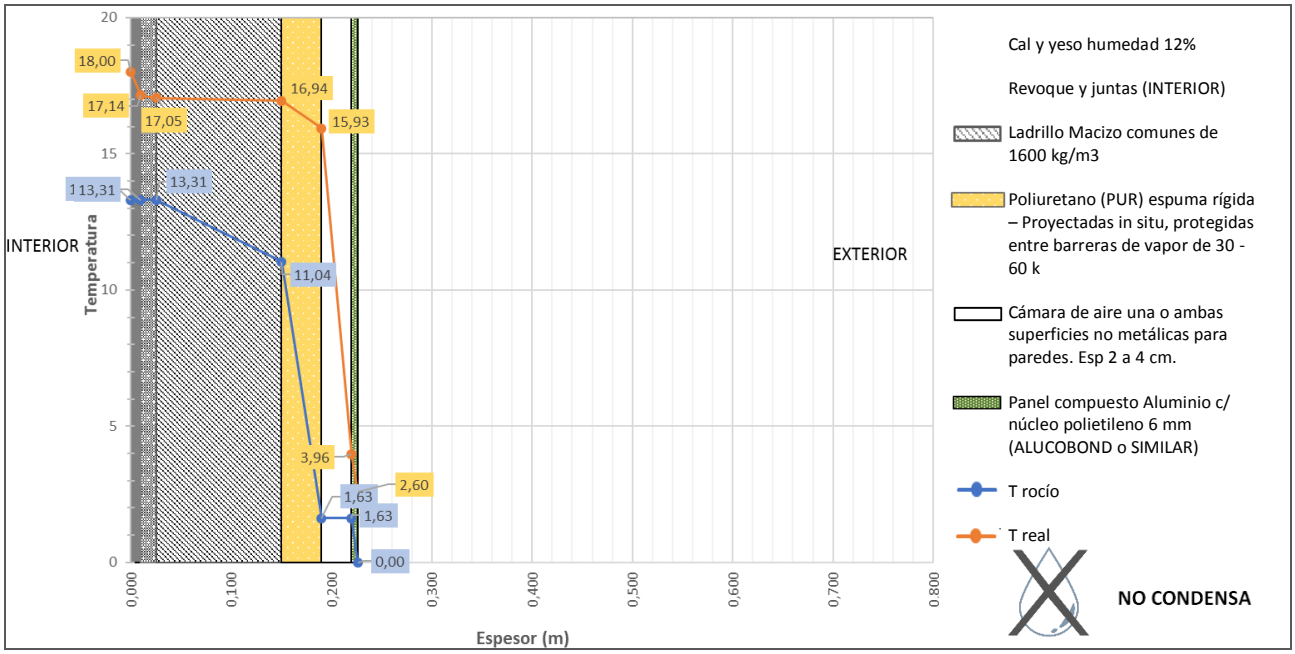
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,43 | 0,43 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 12,3 | 14,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **10,5** | **11,3** |
| | **Amortiguamiento:** | 0,020 | 0,015 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,5** | **10,7** |
| | **Amortiguamiento:** | 0,404 | 0,061 |

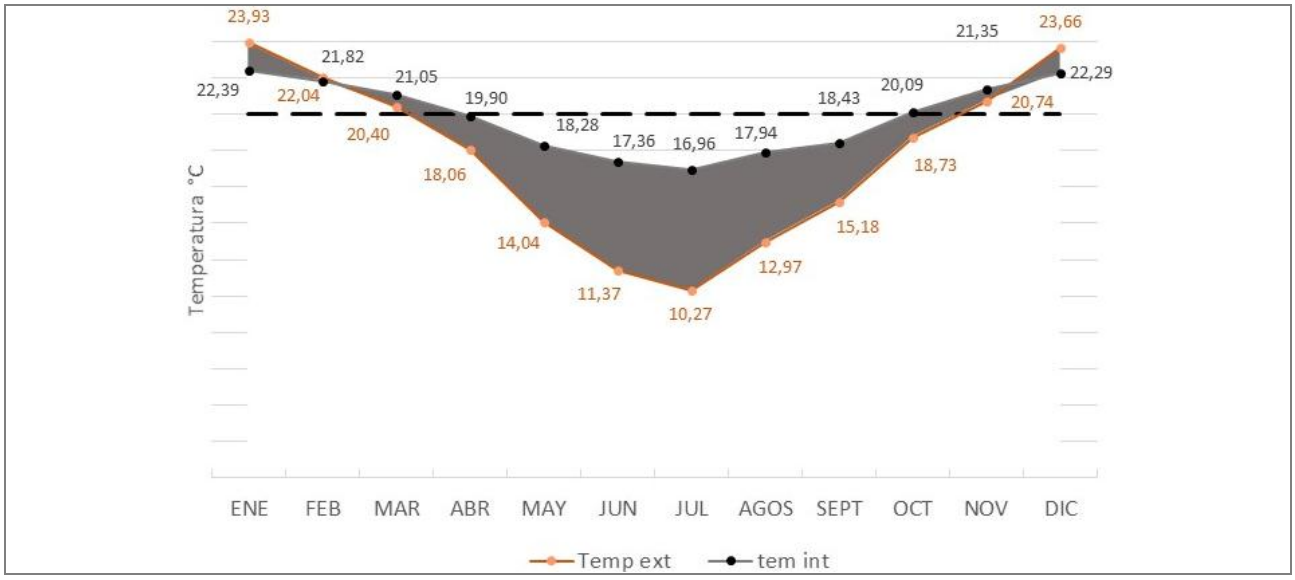
| FVE-005 | MU | FACHADA VENTILADA |
|---|---|---|

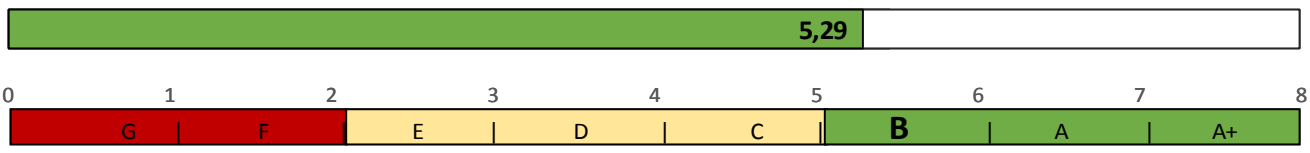
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 14/01 17:00 hs | **24,54** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 08:00 hs | **14,77** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



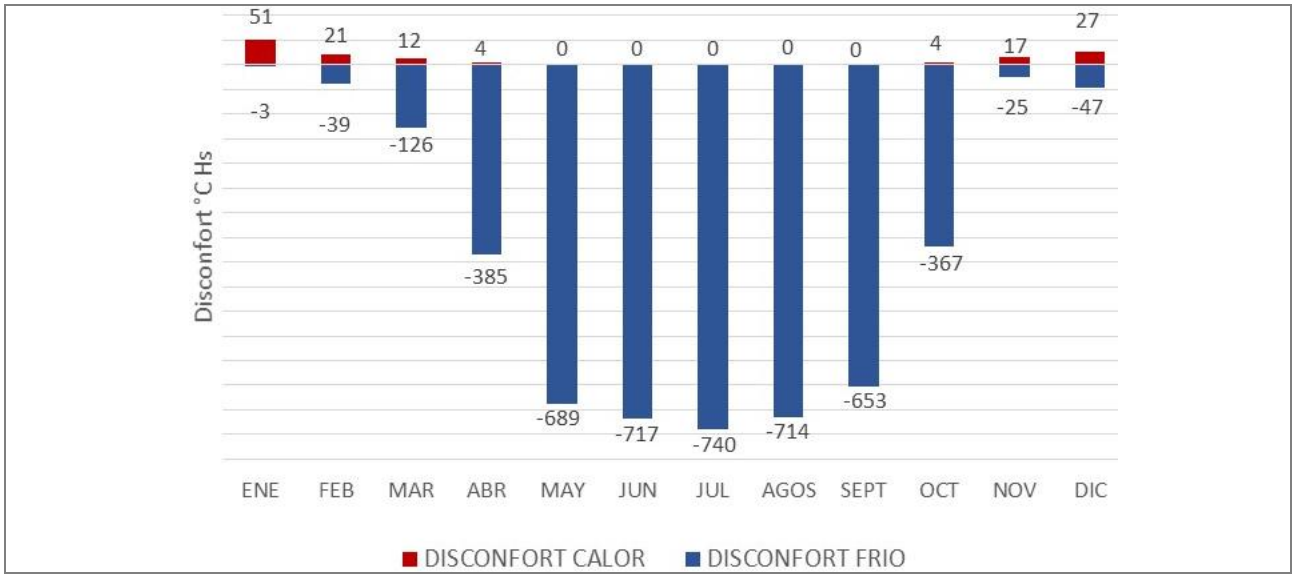




5,29 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| FVE-005 | MU | FACHADA VENTILADA |
|---|---|---|

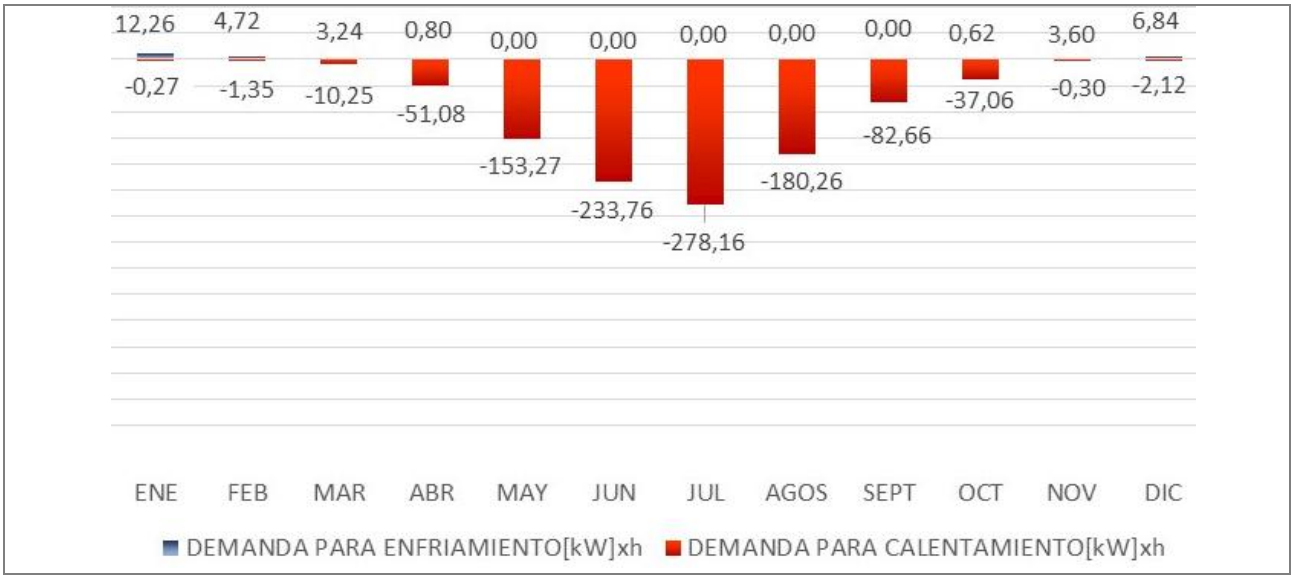
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **137** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.505** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.642** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

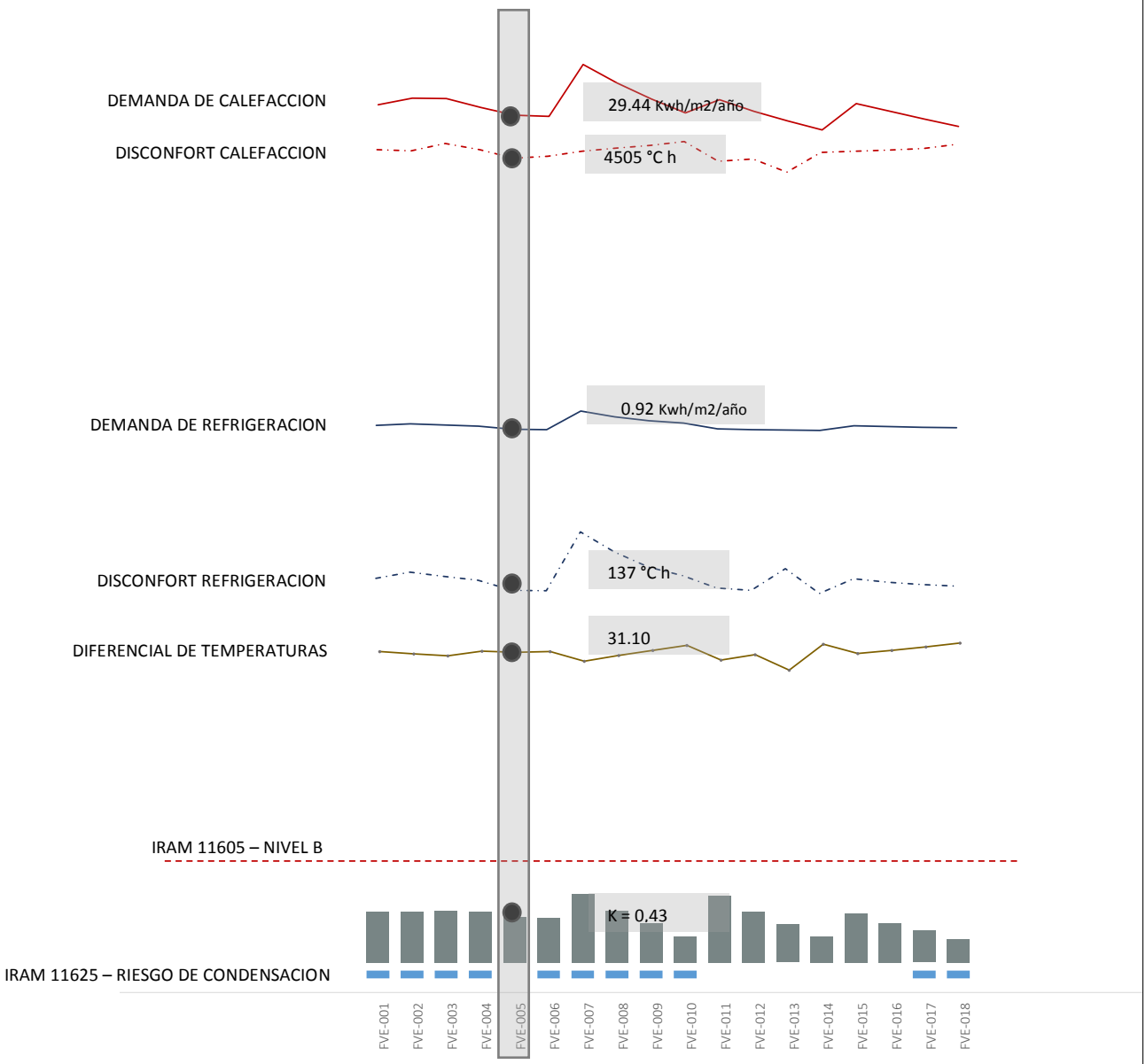



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **32,08** | kWh | 0,92 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.030,54** | kWh | 29,44 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.062,62** | kWh | **30,36** | kWh/m2/año |

| FVE-005 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 082 | N° 099 | N° 049 | N° 017 | N° 060 | N° 012 |



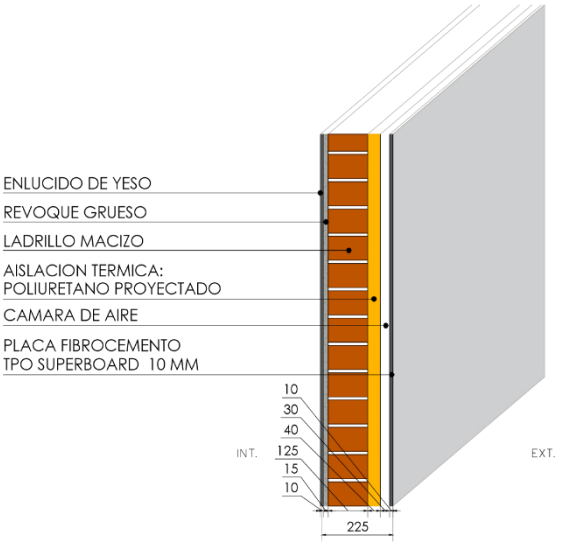

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,43 | 0% | 31,10 | 29,44 | 0,92 | 4505 | 137 |
| INC. FAMILIA | 102,93% | 0% | 100,14% | 94,57% | 52,98% | 98,95% | 55,94% |
| INC. MUNDIAL | 36,15% | 0% | 100,93% | 71,59% | 15,33% | 100,97% | 26,80% |

| FVE-006 | MU | FACHADA VENTILADA |
|---|---|---|

FACHADA VENTILADA CON PLACA DE CEMENTO SOBRE MURO CON ENLUCIDO.

## INDICE DE TRANSMITANCIA TERMICA "K"

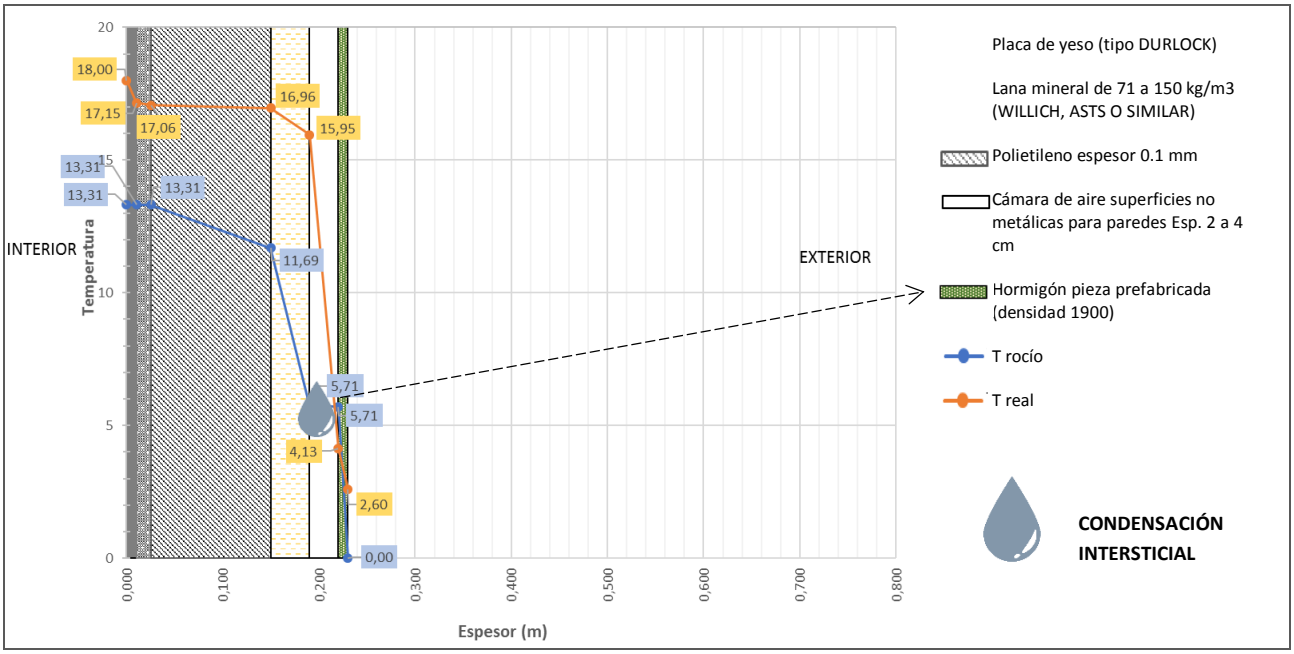
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,42 | 0,42 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 13,7 | 14,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,2** | **11,4** |
| | **Amortiguamiento:** | 0,016 | 0,015 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,1** | **10,7** |
| | **Amortiguamiento:** | 0,264 | 0,060 |

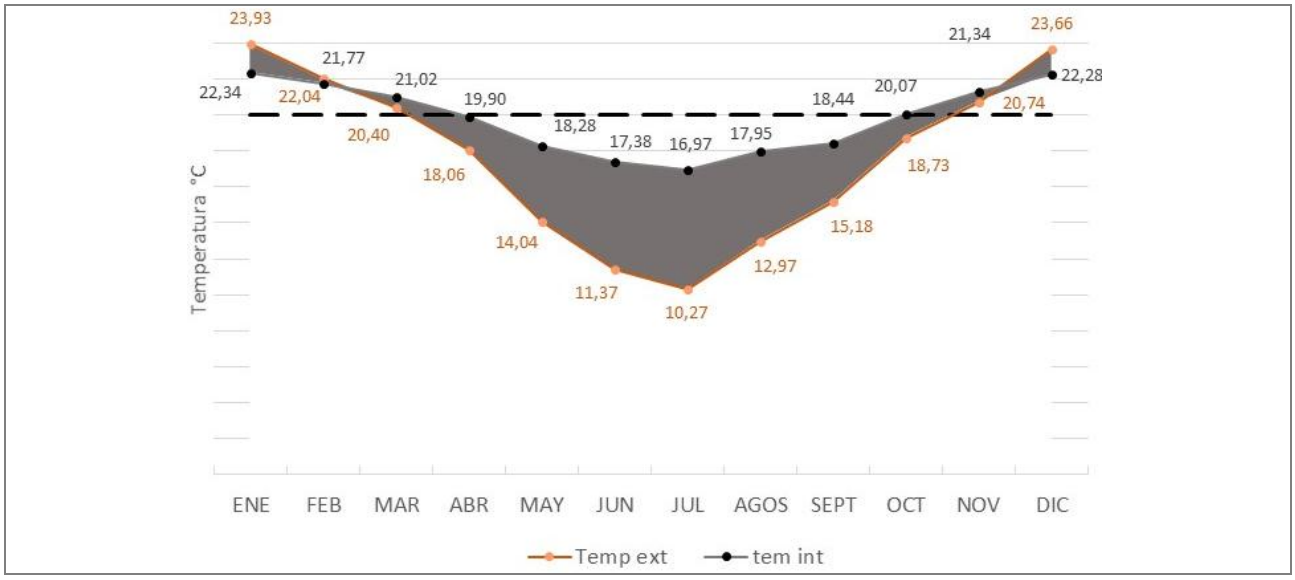
| FVE-006 | MU | FACHADA VENTILADA |
|---|---|---|

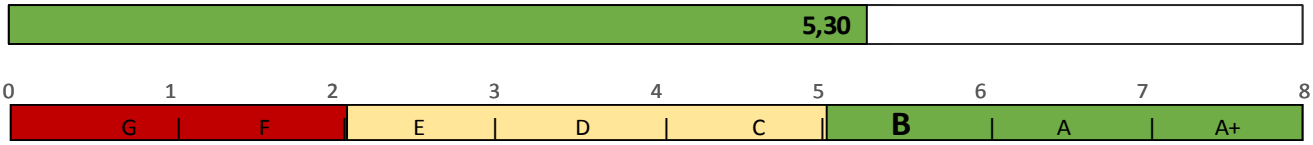
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 14/01 17:00 hs | **24,48** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 08:00 hs | **14,85** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



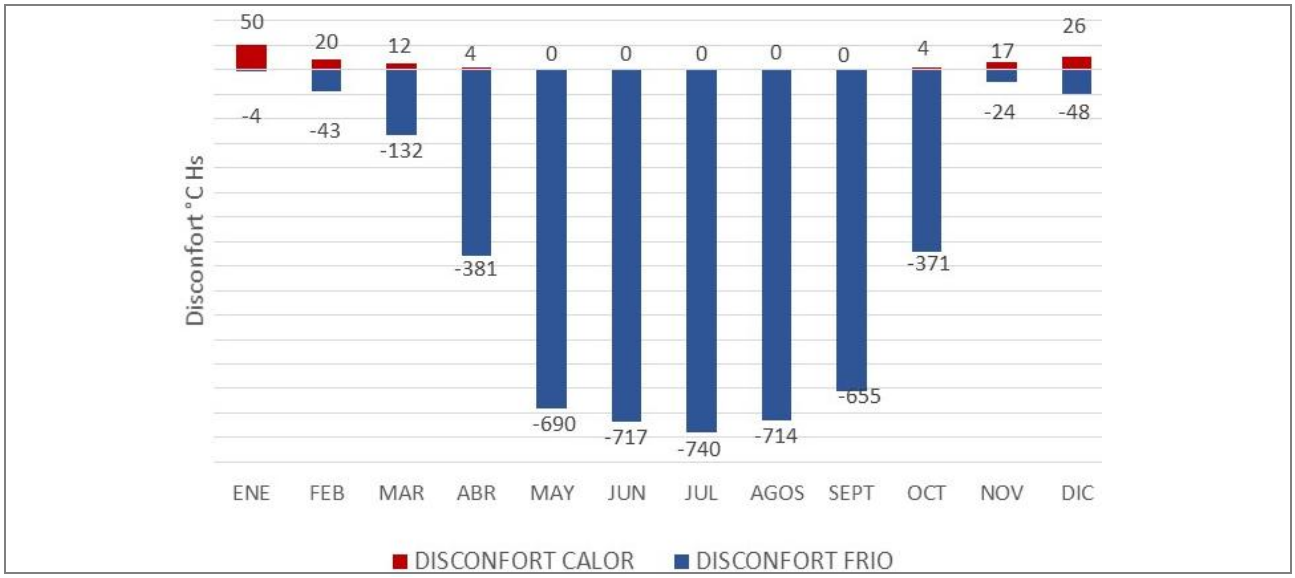




5,30 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| FVE-006 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

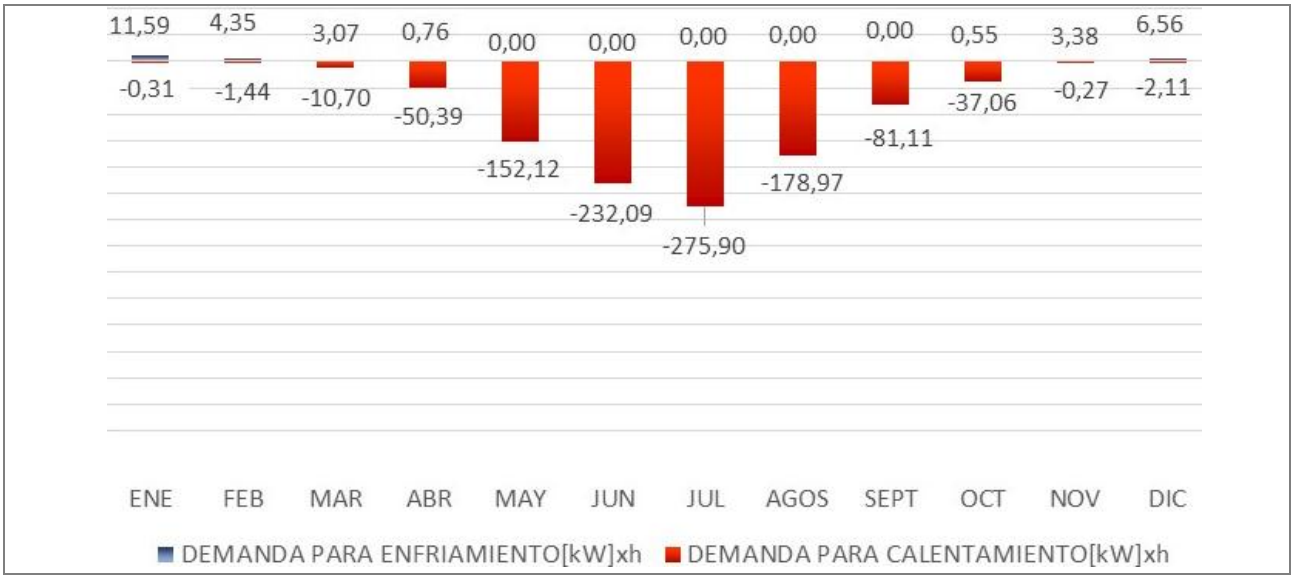
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **133** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.519** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.652** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

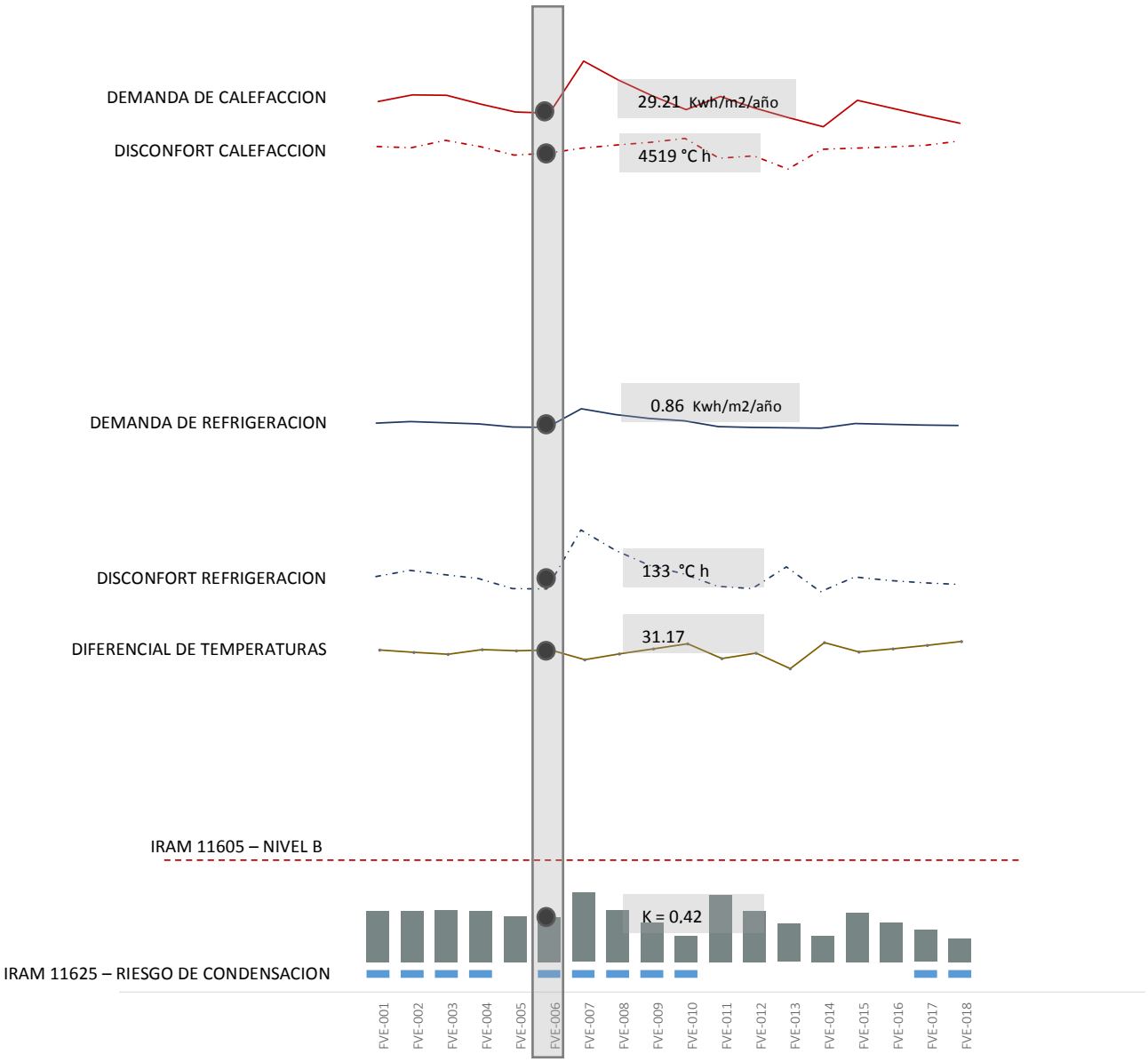



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **30,26** | kWh | 0,86 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.022,46** | kWh | 29,21 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.052,72** | kWh | **30,08** | kWh/m2/año |

| FVE-006 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 079 | N° 092 | N° 035 | N° 006 | N° 076 | N° 005 |



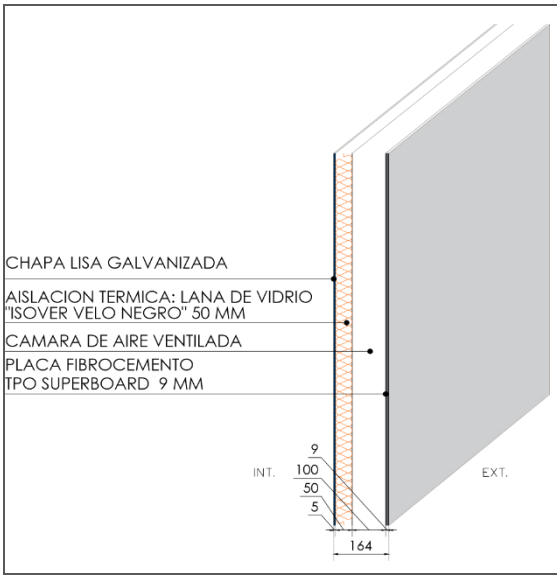

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,42 | 100% | 31,17 | 29,21 | 0,86 | 4519,00 | 133,00 |
| INC. FAMILIA | 100,53% | 164% | 100,37% | 93,84% | 49,52% | 99,26% | 54,31% |
| INC. MUNDIAL | 35,31% | 357% | 101,16% | 71,03% | 14,33% | 101,29% | 26,02% |

| FVE-007 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR CHAPA LISA+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 50 MM+ CAMARA DE AIRE

## INDICE DE TRANSMITANCIA TERMICA "K"

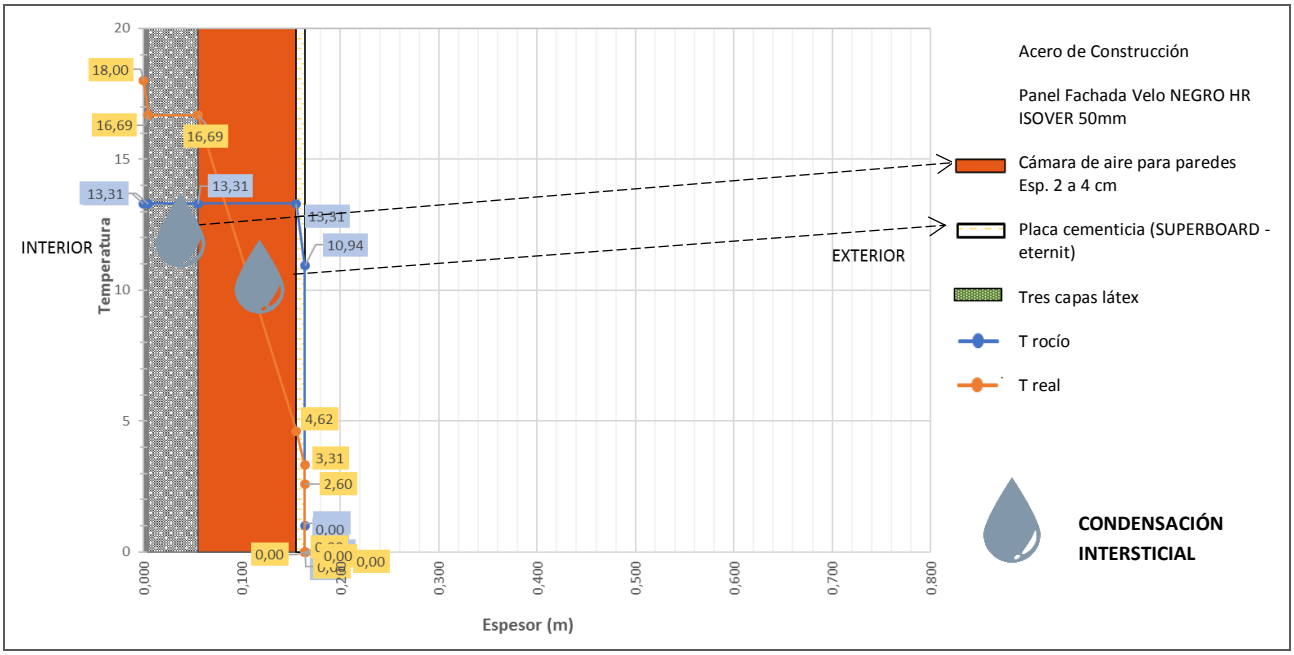
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,65 | 0,65 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,3 | 6,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **2,8** | **4,7** |
| | **Amortiguamiento:** | 0,349 | 0,176 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,0** | **3,7** |
| | **Amortiguamiento:** | 0,452 | 0,384 |

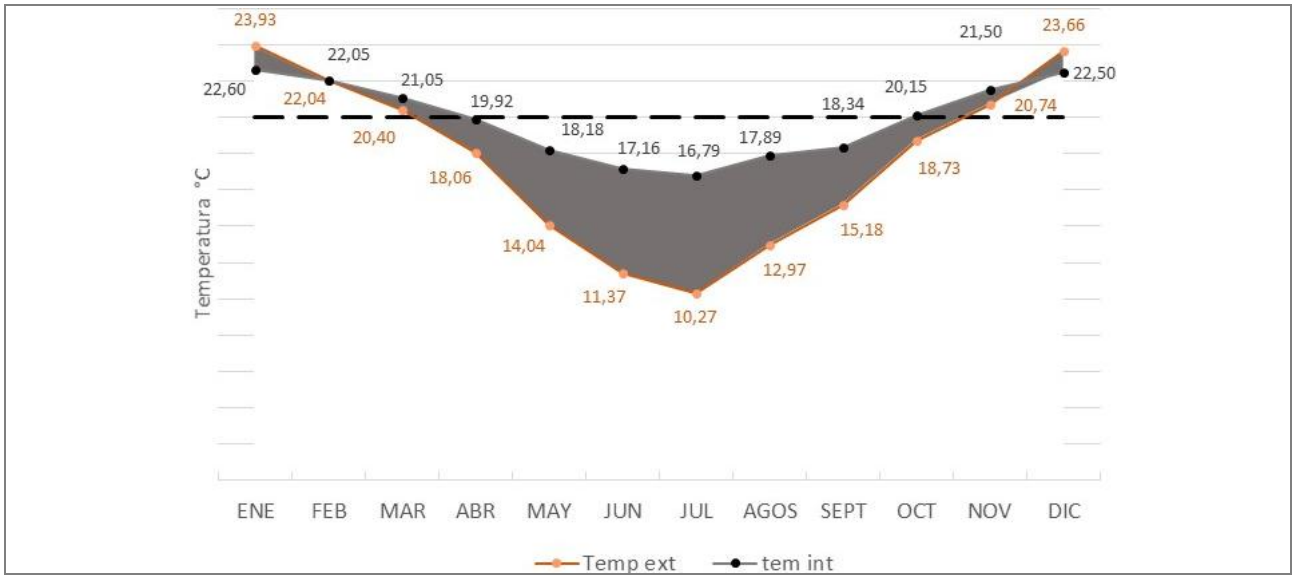
| FVE-007 | MU | FACHADA VENTILADA |
|---|---|---|

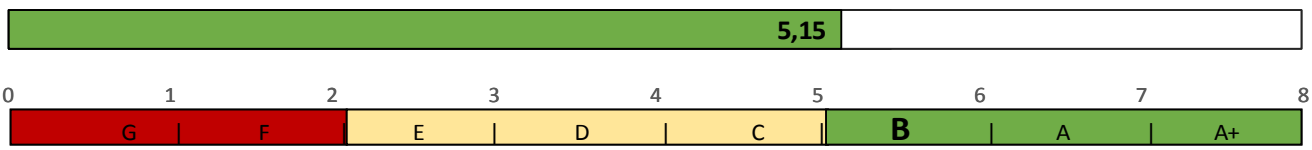
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 18:00 hs | **27,10** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 08:00 hs | **12,66** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



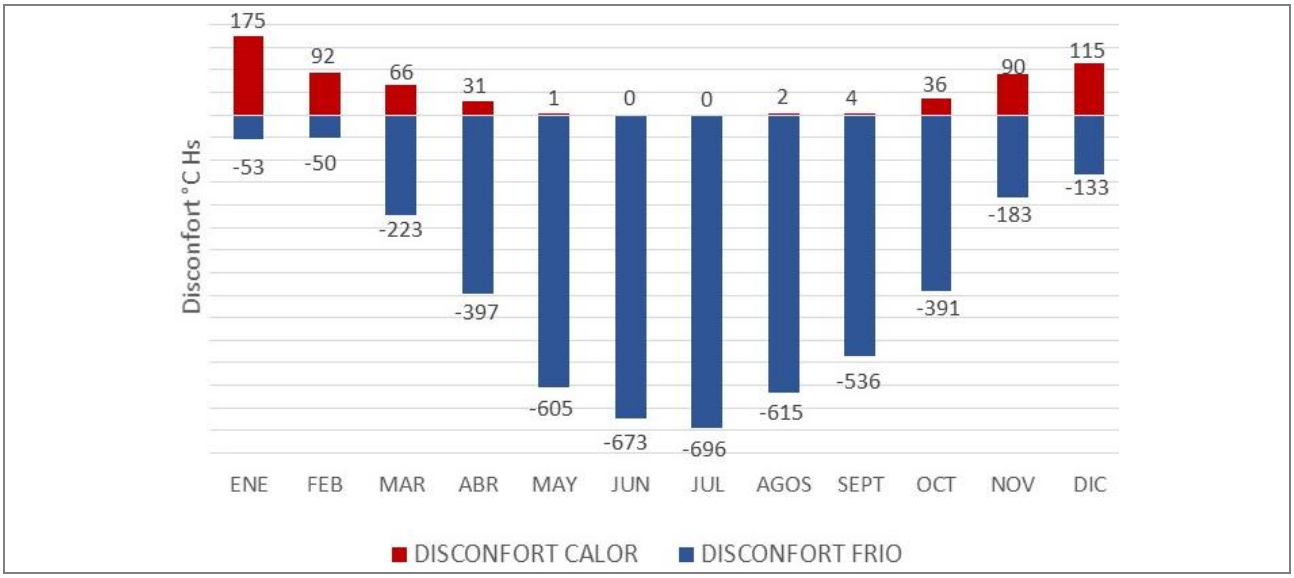




5,15 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| FVE-007 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

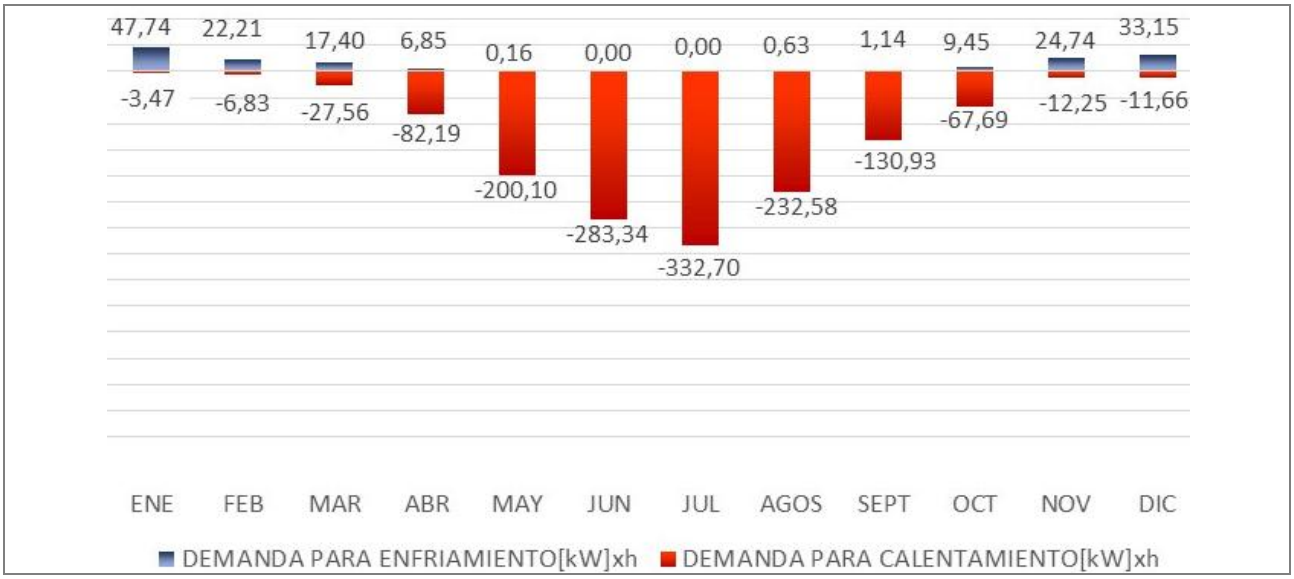
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **612** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.557** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.169** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

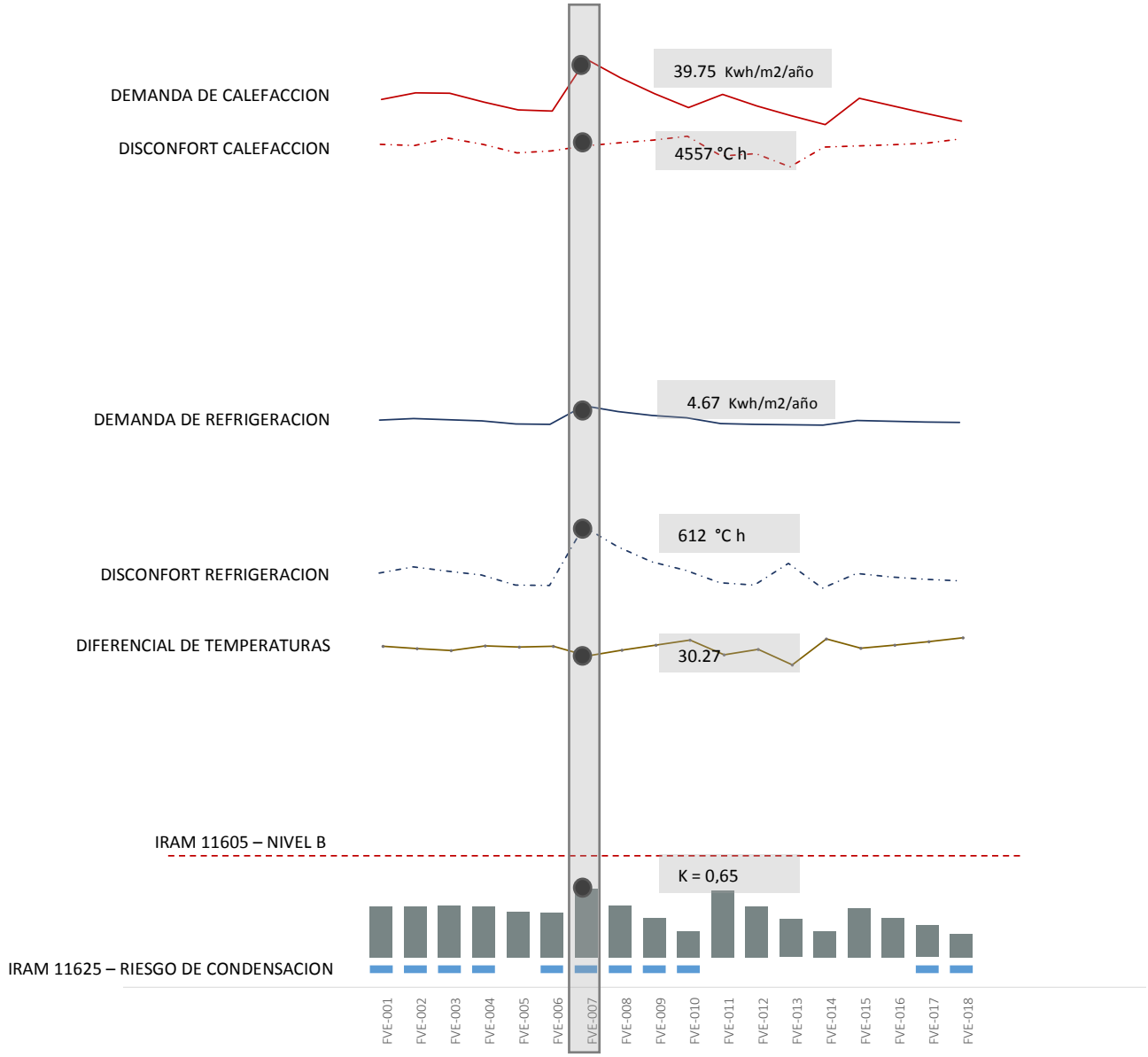



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **163,47** | kWh | 4,67 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.391,31** | kWh | 39,75 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.554,78** | kWh | **44,42** | kWh/m2/año |

| FVE-007 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 151 | N° 160 | N° 166 | N° 180 | N° 110 | N° 177 |



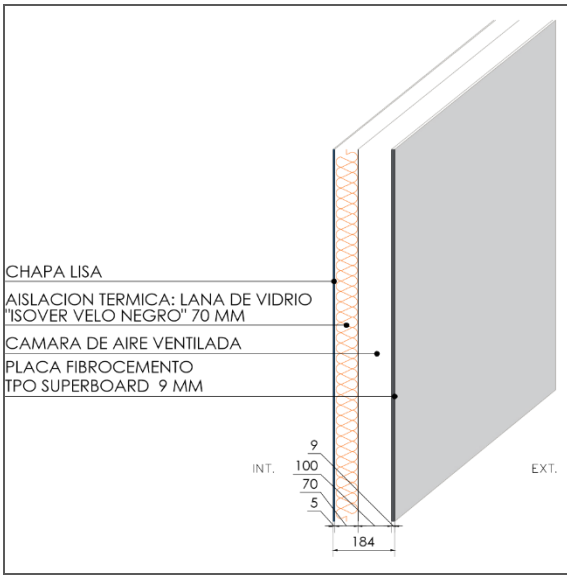

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,65 | 100% | 30,27 | 39,75 | 4,67 | 4557 | 612 |
| INC. FAMILIA | 155,59% | 164% | 97,47% | 127,69% | 268,91% | 100,10% | 249,91% |
| INC. MUNDIAL | 54,65% | 357% | 98,24% | 96,65% | 77,81% | 102,14% | 119,73% |

| FVE-008 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR CHAPA LISA+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 70 MM+ CAMARA DE AIRE.

## INDICE DE TRANSMITANCIA TERMICA "K"

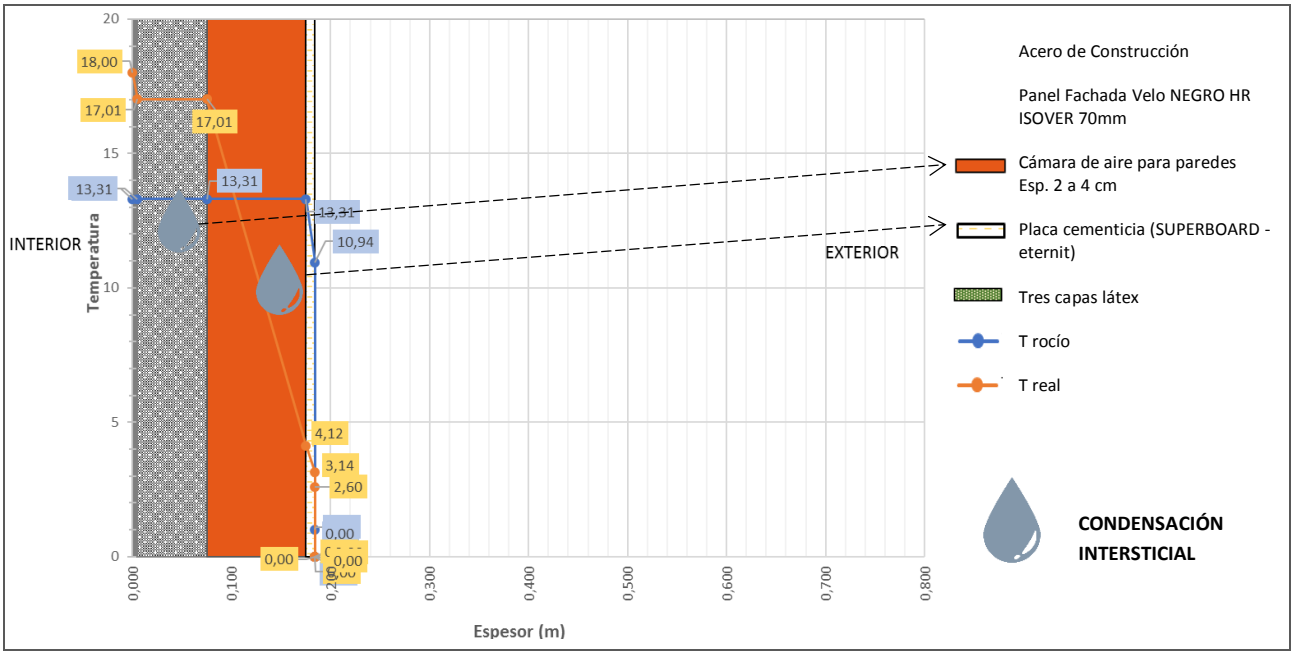
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,49 | 0,49 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,7 | 4,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,3** | **5,5** |
| | **Amortiguamiento:** | 0,292 | 0,131 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,4** | **4,2** |
| | **Amortiguamiento:** | 0,406 | 0,329 |

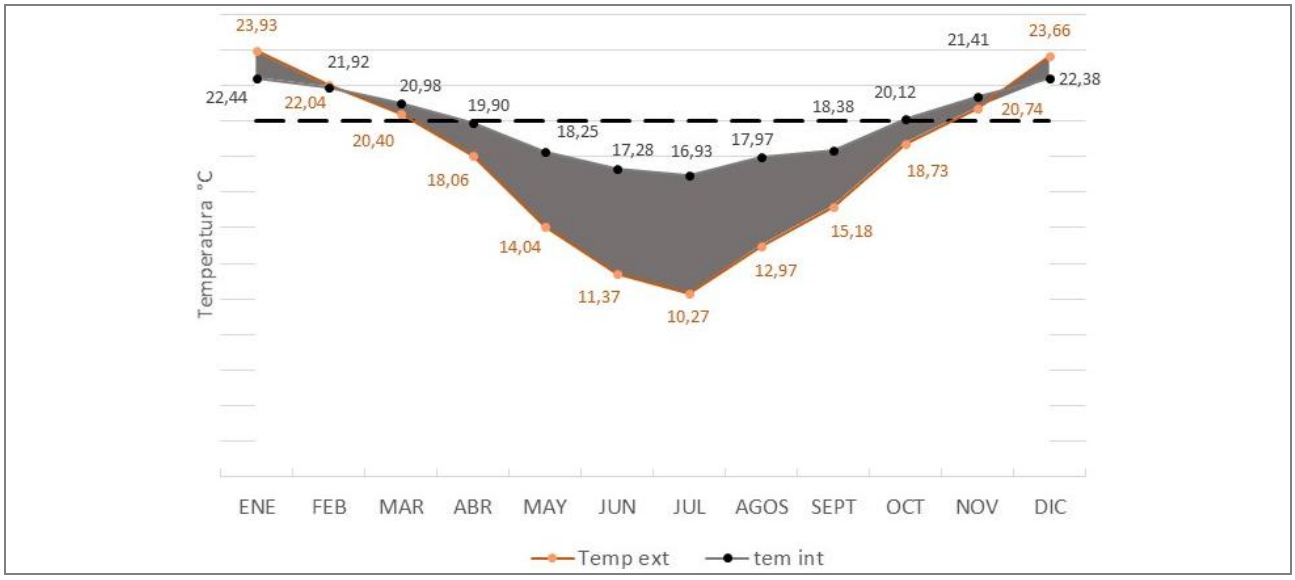
| FVE-008 | MU | FACHADA VENTILADA |
|---|---|---|

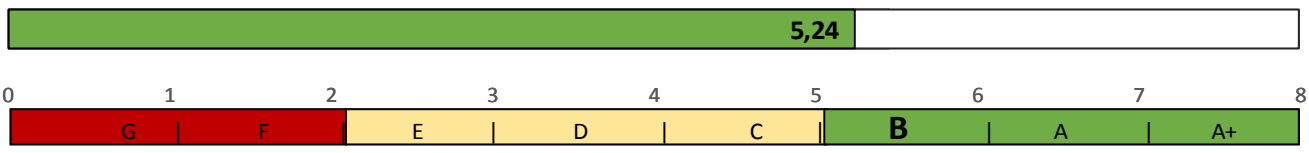
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 18:00 hs | **26,50** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 08:00 hs | **13,24** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



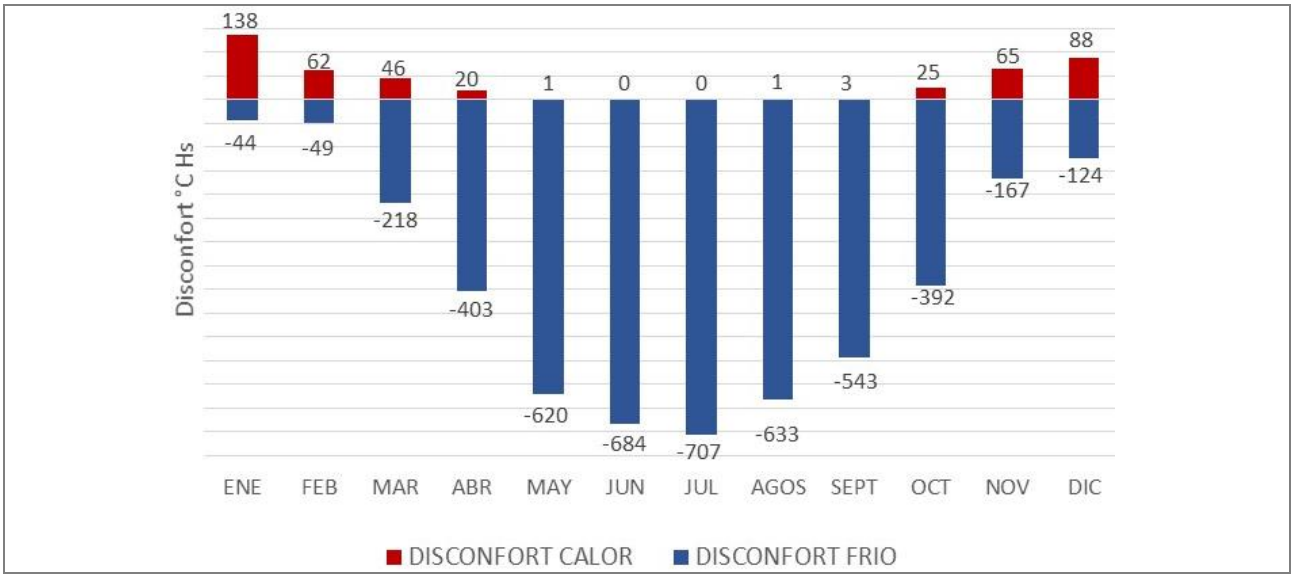




5,24 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| FVE-008 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

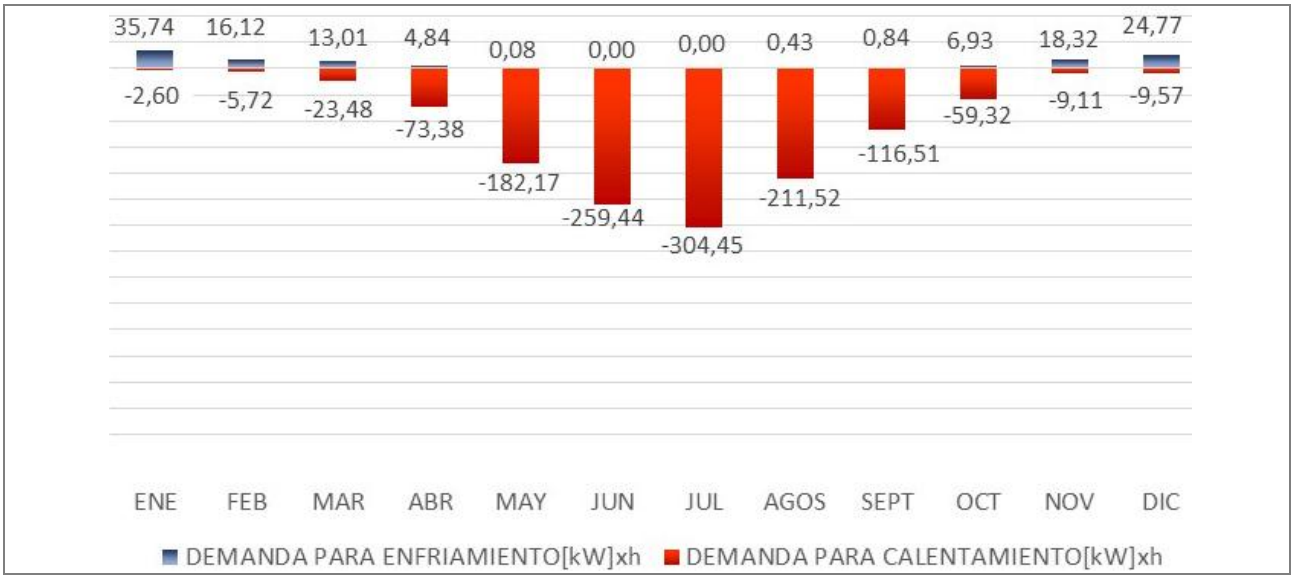
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **449** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.582** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.031** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

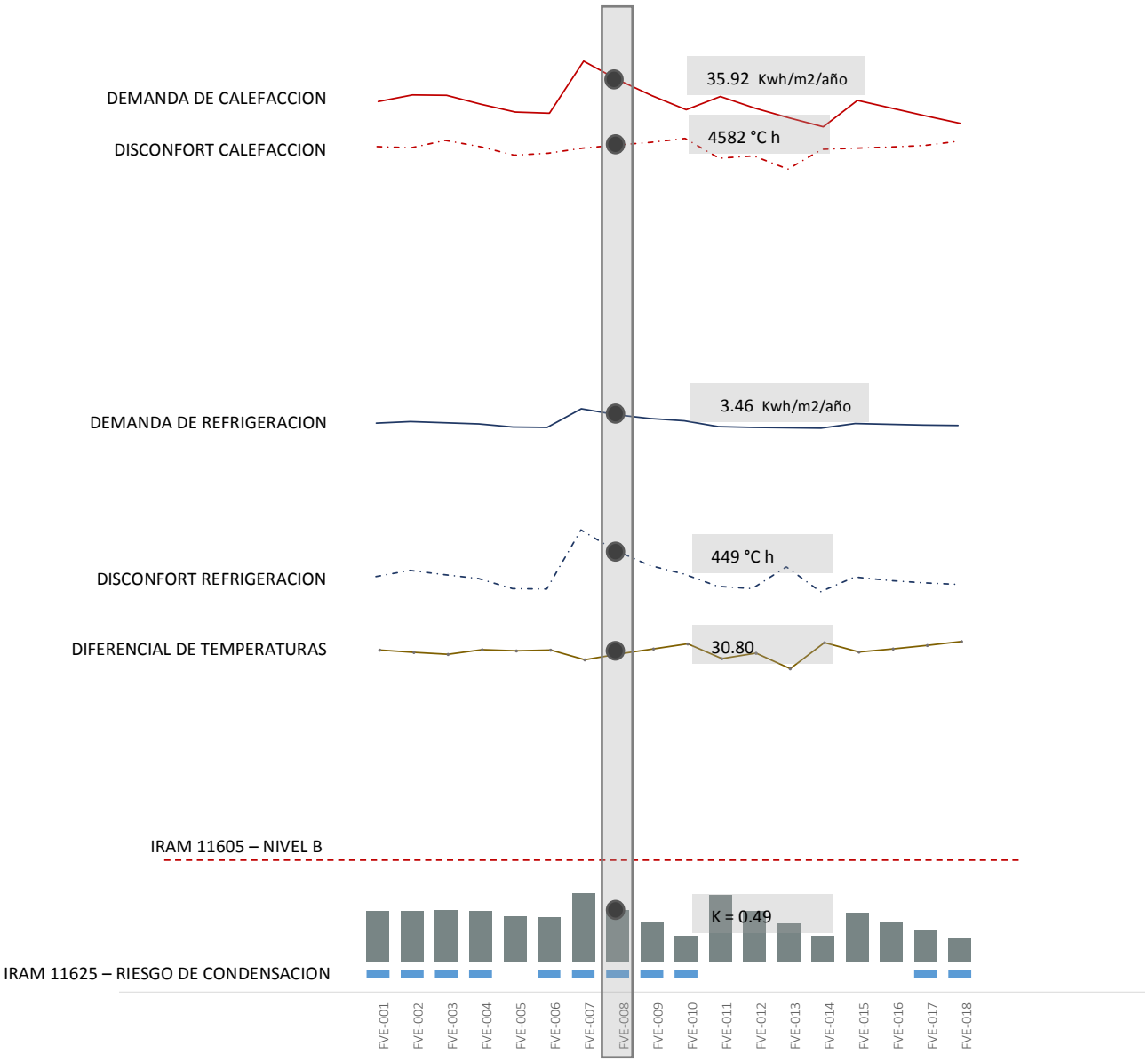



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **121,08** | kWh | 3,46 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.257,26** | kWh | 35,92 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.378,34** | kWh | **39,38** | kWh/m2/año |

| FVE-008 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 116 | N° 133 | N° 156 | N° 174 | N° 136 | N° 167 |



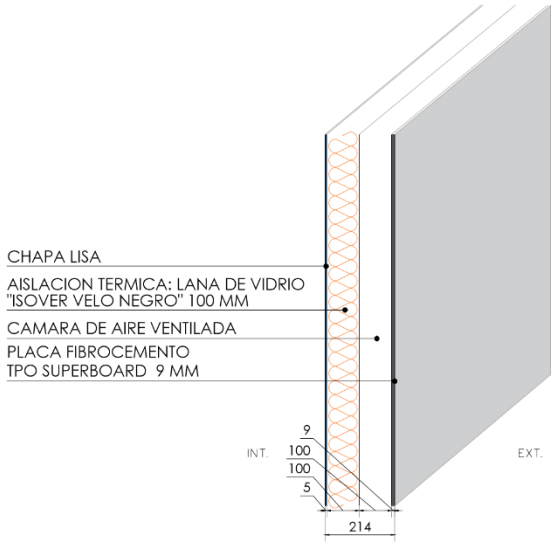

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,49 | 100% | 30,80 | 35,92 | 3,46 | 4582,00 | 449,00 |
| INC. FAMILIA | 117,29% | 164% | 99,18% | 115,39% | 199,23% | 100,65% | 183,35% |
| INC. MUNDIAL | 41,20% | 357% | 99,96% | 87,34% | 57,65% | 102,70% | 87,84% |

| FVE-009 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR CHAPA LISA+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 100 MM+ CAMARA DE AIRE.

## INDICE DE TRANSMITANCIA TERMICA "K"

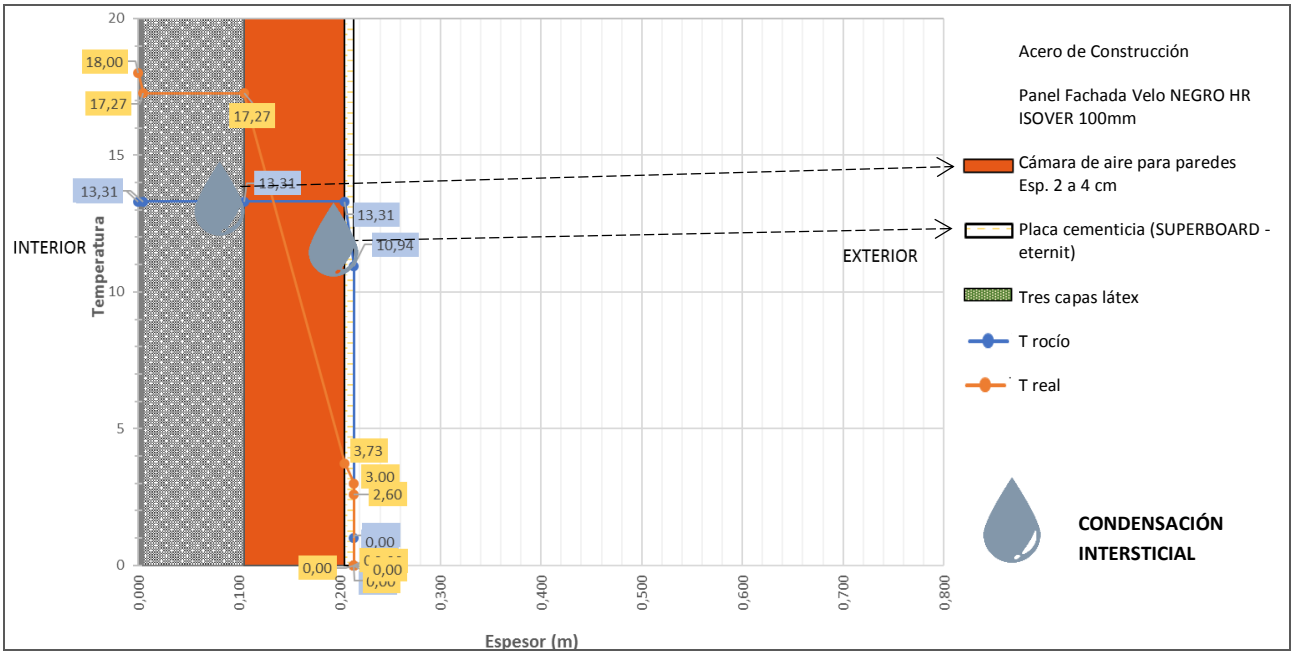
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,37 | 0,37 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 1,2 | Invierno 3,3 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | Retardo Térmico: horas | 3,9 | 6,4 |
| | Amortiguamiento: | 0,236 | 0,092 |
| s/ Método Raychaudhury y Chaudhury | Retardo Térmico: horas | 4,0 | 5,0 |
| | Amortiguamiento: | 0,355 | 0,274 |

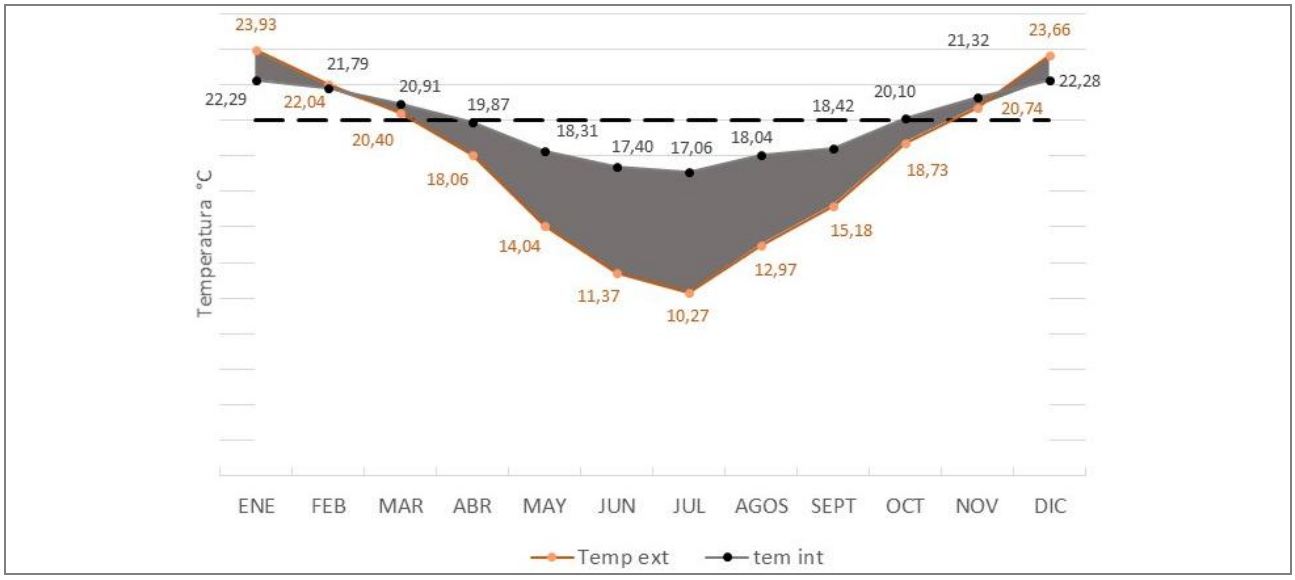
| FVE-009 | MU | FACHADA VENTILADA |
|---|---|---|

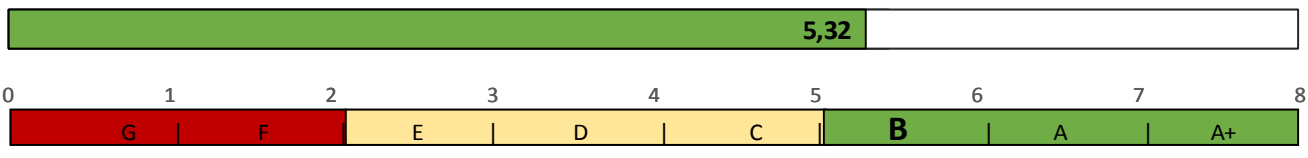
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 18:00 hs | **25,95** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 08:00 hs | **13,78** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



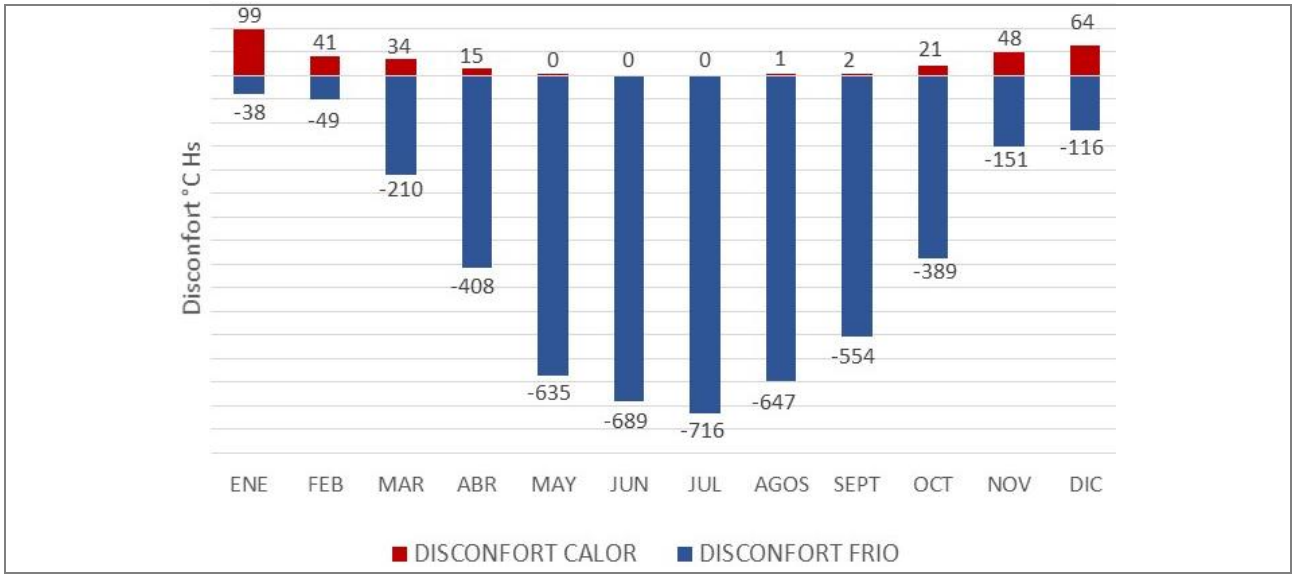




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| FVE-009 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

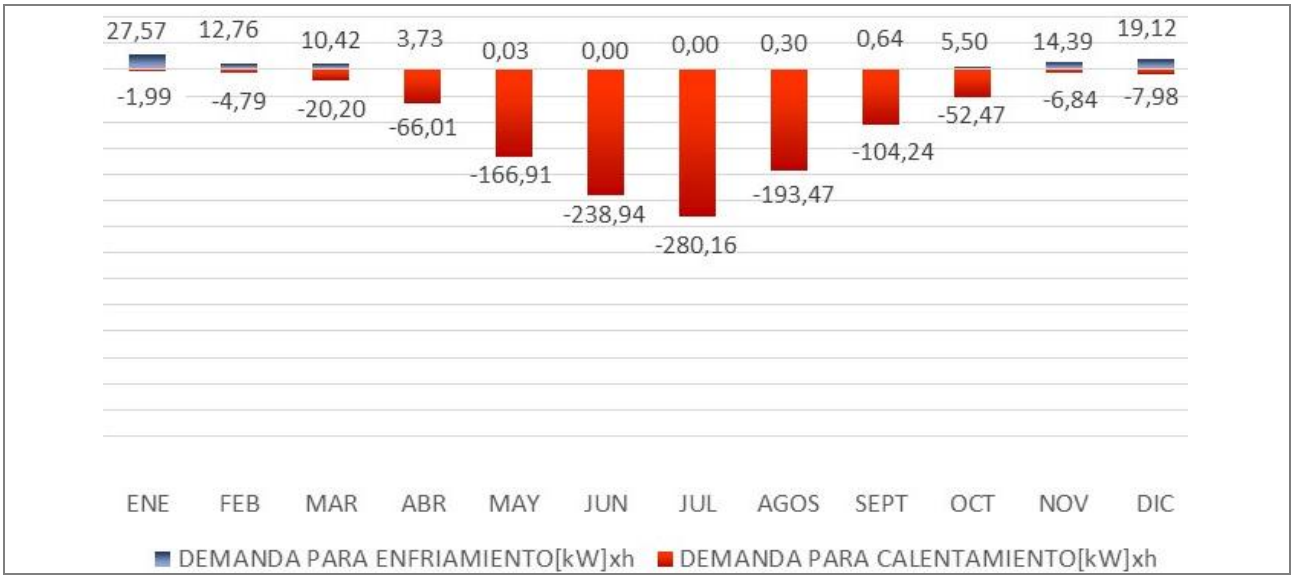
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **325** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.602** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.927** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

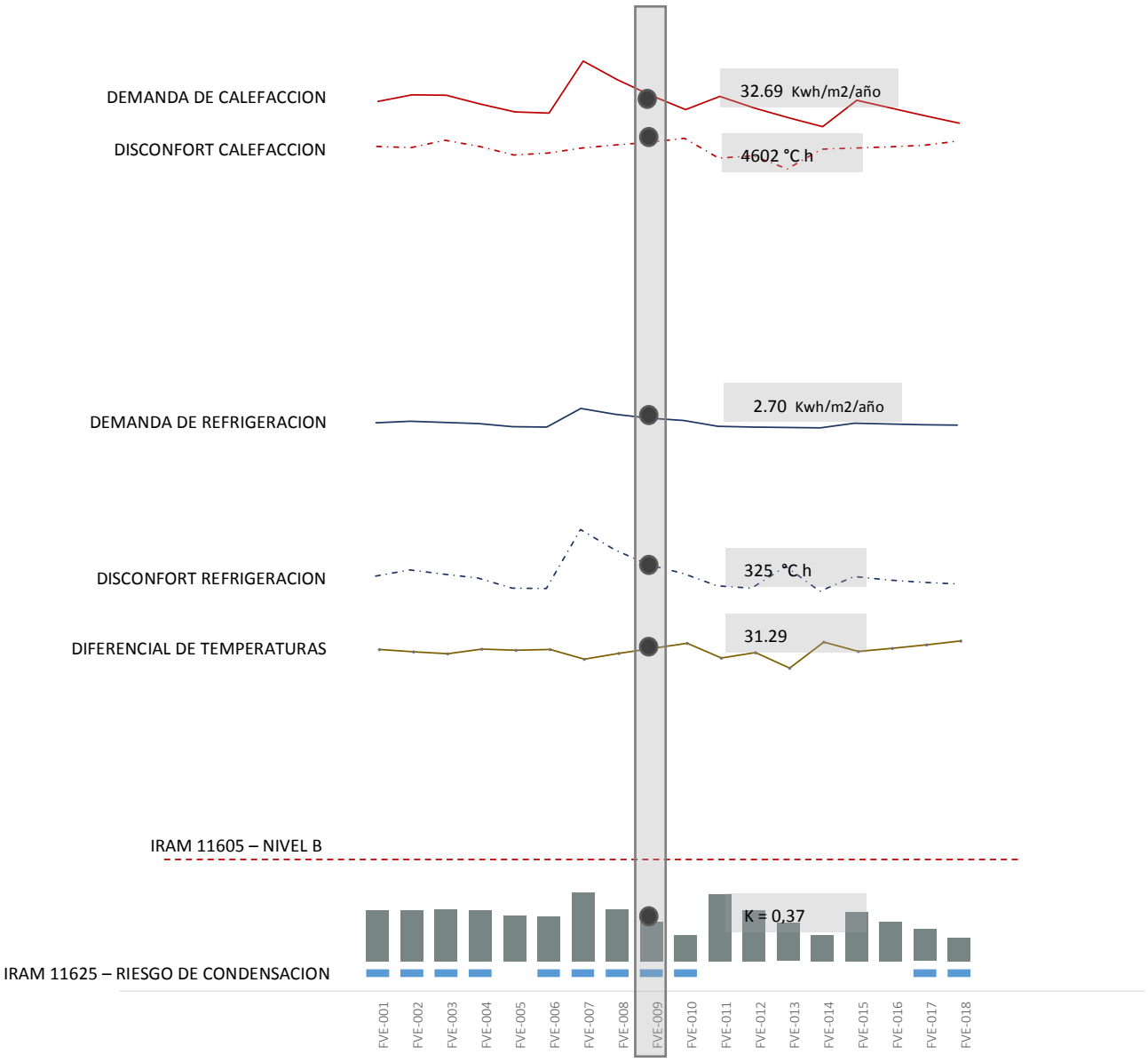



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **94,47** | kWh | 2,70 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.143,99** | kWh | 32,69 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.238,46** | kWh | **35,38** | kWh/m2/año |

| FVE-009 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 063 | N° 074 | N° 123 | N° 159 | N° 157 | N° 149 |



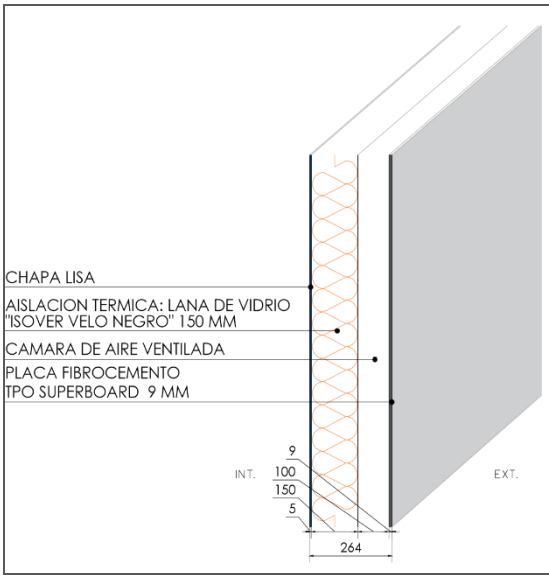

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,37 | 100% | 31,29 | 32,69 | 2,7 | 4602 | 325 |
| INC. FAMILIA | 88,56% | 164% | 100,76% | 105,01% | 155,47% | 101,08% | 132,71% |
| INC. MUNDIAL | 31,11% | 357% | 101,55% | 79,49% | 44,99% | 103,15% | 63,58% |

| FVE-010 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR CHAPA LISA+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 150 MM + CAMARA DE AIRE.

## INDICE DE TRANSMITANCIA TERMICA "K"

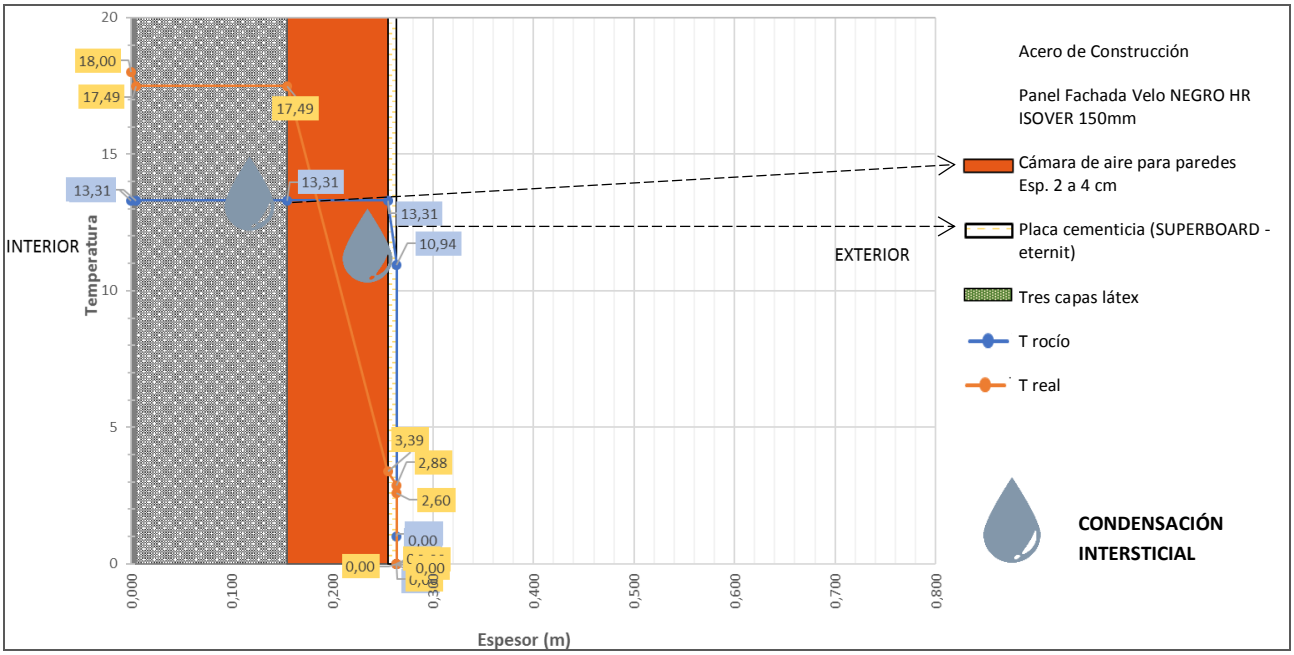
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,25 | 0,25 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



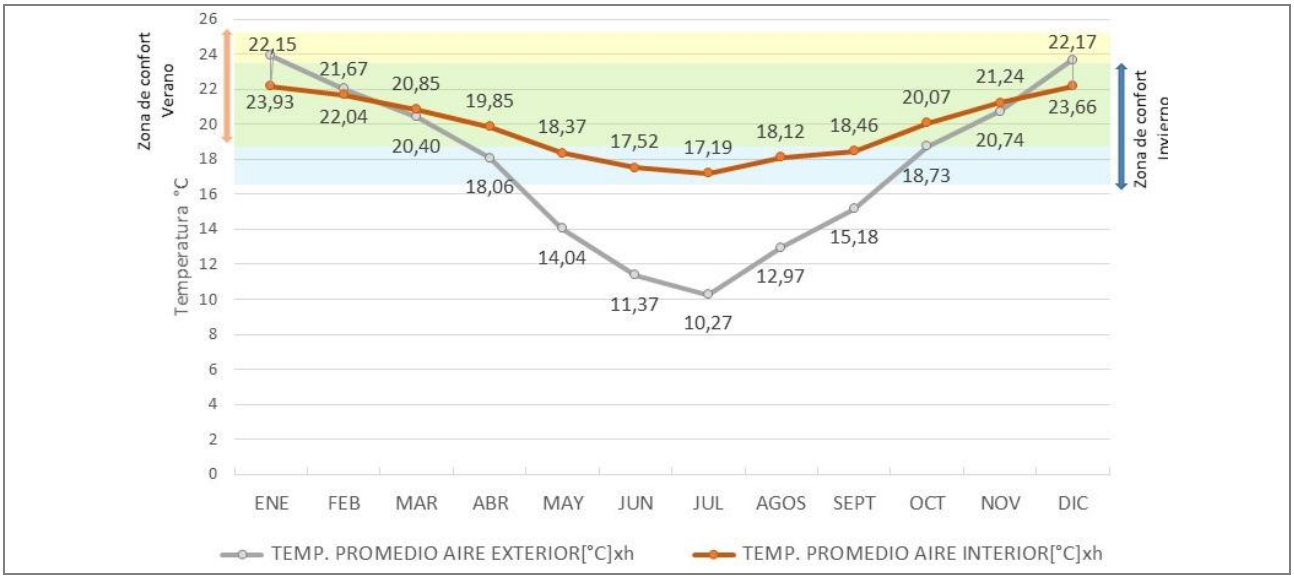

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 0,8 | 2,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,7** | **7,8** |
| | **Amortiguamiento:** | 0,174 | 0,056 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,7** | **6,0** |
| | **Amortiguamiento:** | 0,292 | 0,209 |

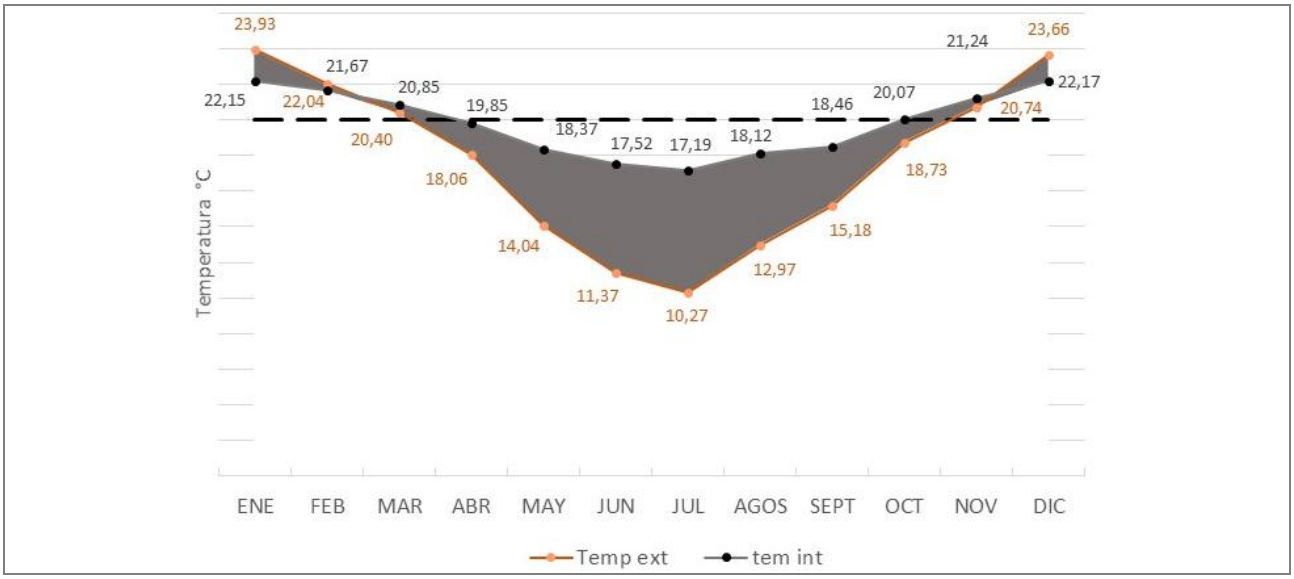
| FVE-010 | MU | FACHADA VENTILADA |
|---|---|---|

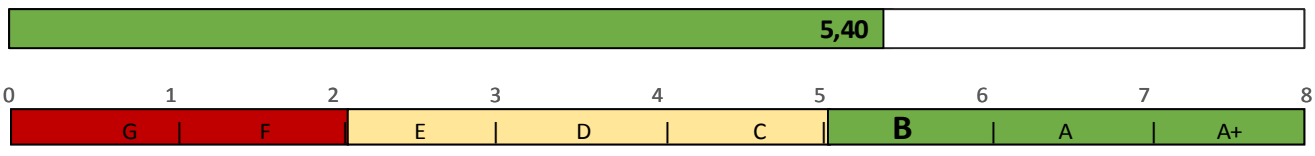
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 18:00 hs | **25,43** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 08:00 hs | **14,27** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



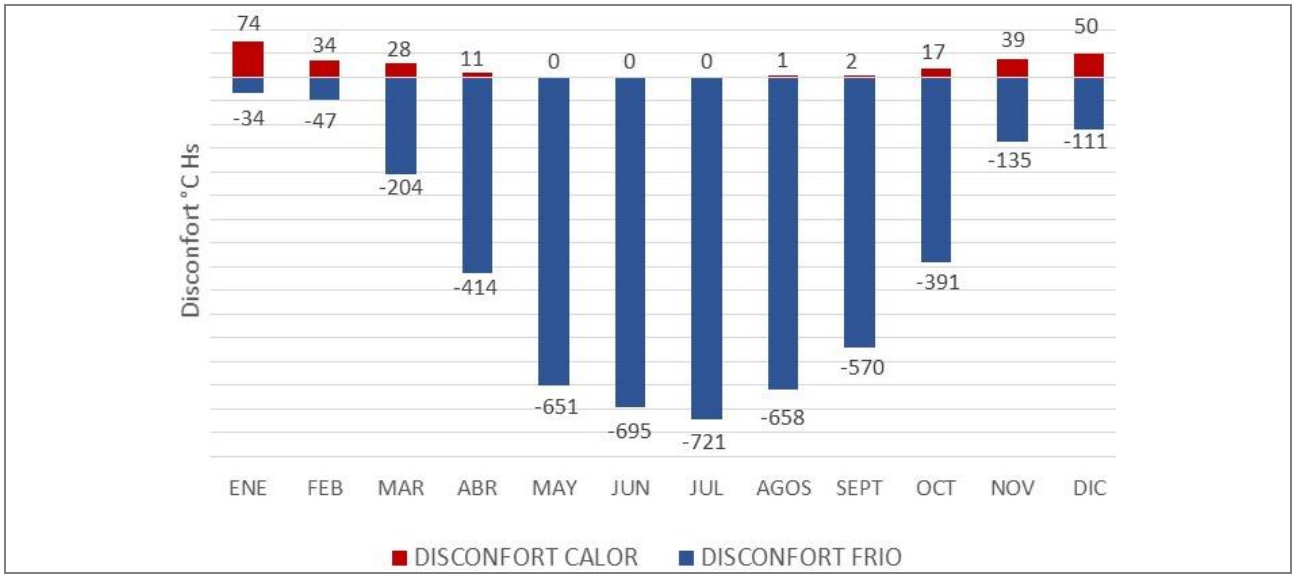




5.40 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.68

| FVE-010 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

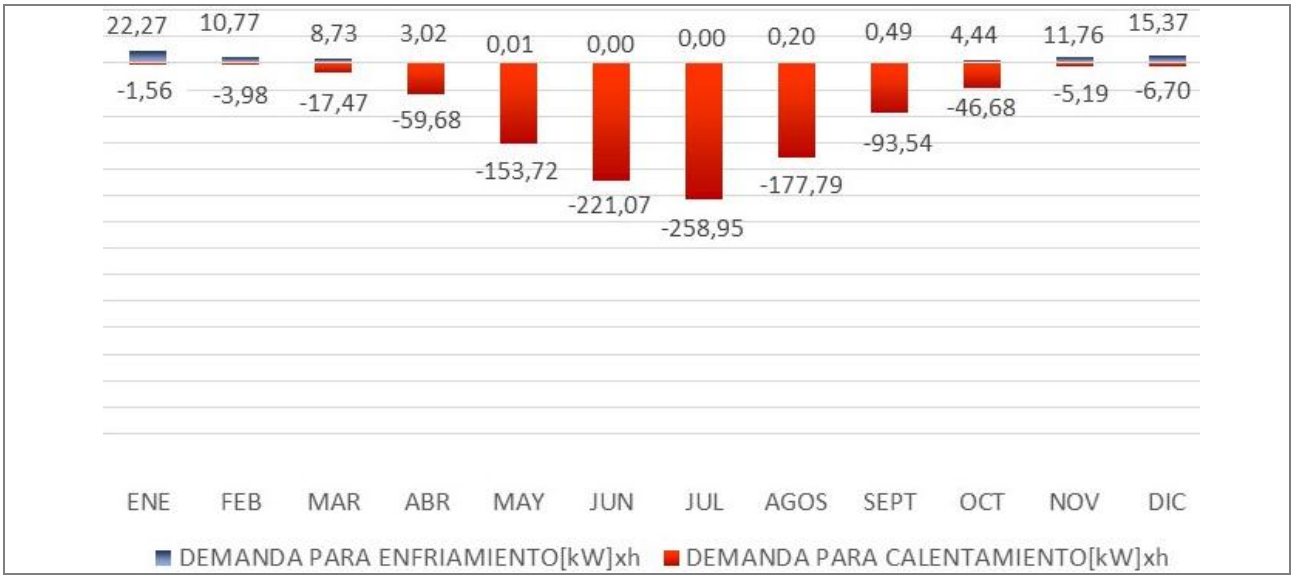
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **257** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.631** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.888** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

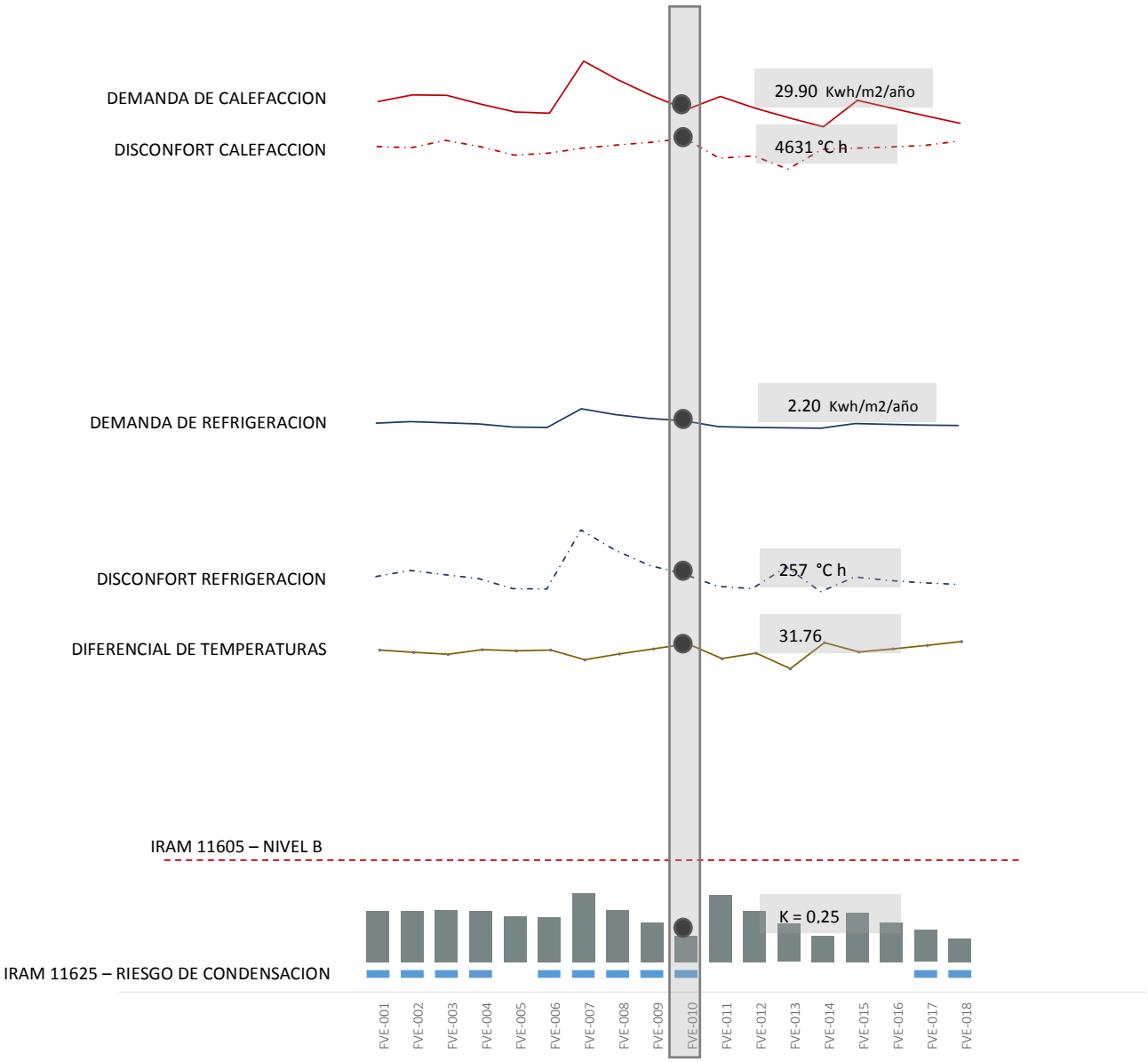



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **77,06** | kWh | 2,20 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.046,35** | kWh | 29,90 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.123,41** | kWh | **32,10** | kWh/m2/año |

| FVE-010 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 004 | N° 016 | N° 058 | N° 153 | N° 188 | N° 133 |



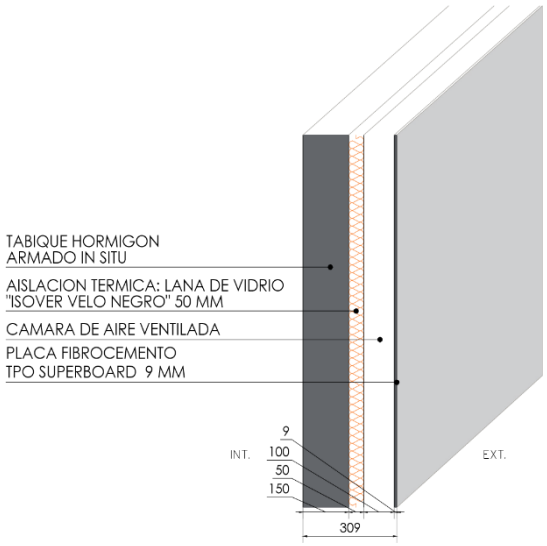

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,25 | 100% | 31,76 | 29,90 | 2,20 | 4631,00 | 257,00 |
| INC. FAMILIA | 59,84% | 164% | 102,27% | 96,05% | 126,68% | 101,72% | 104,95% |
| INC. MUNDIAL | 21,02% | 357% | 103,07% | 72,70% | 36,66% | 103,80% | 50,28% |

| FVE-011 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR TABIQUE H° A° IN SITU+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 50 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9 MM.

## INDICE DE TRANSMITANCIA TERMICA "K"

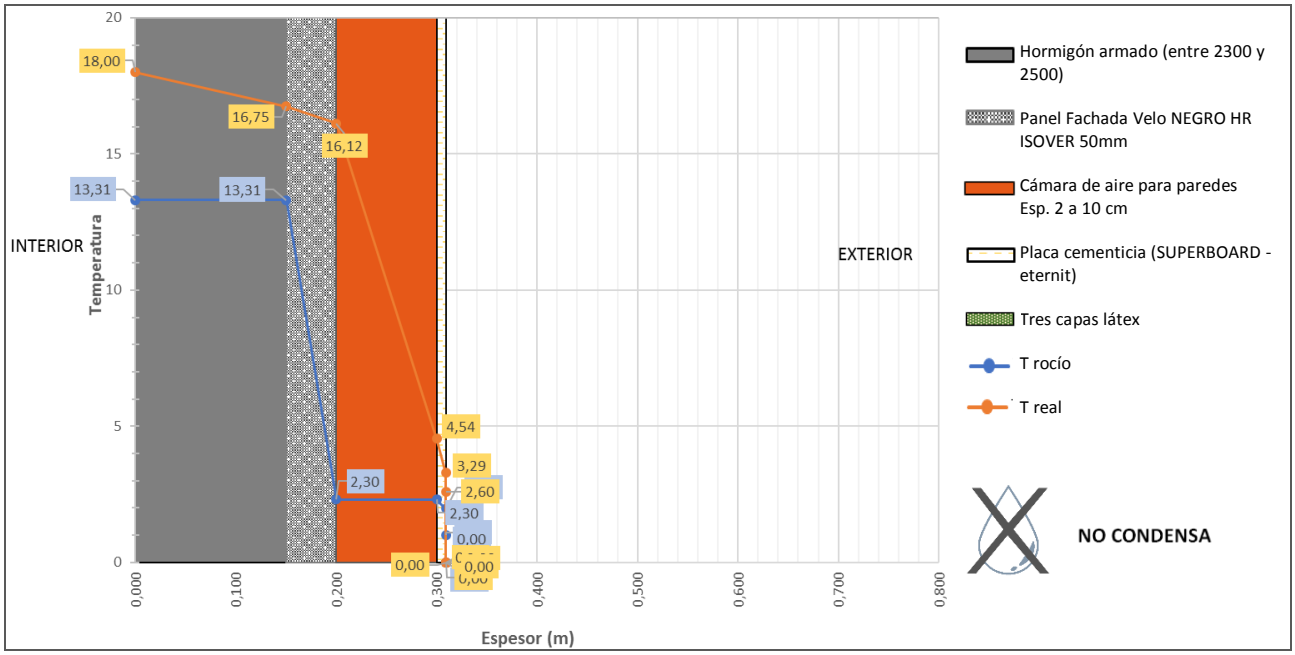
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,63 | 0,63 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



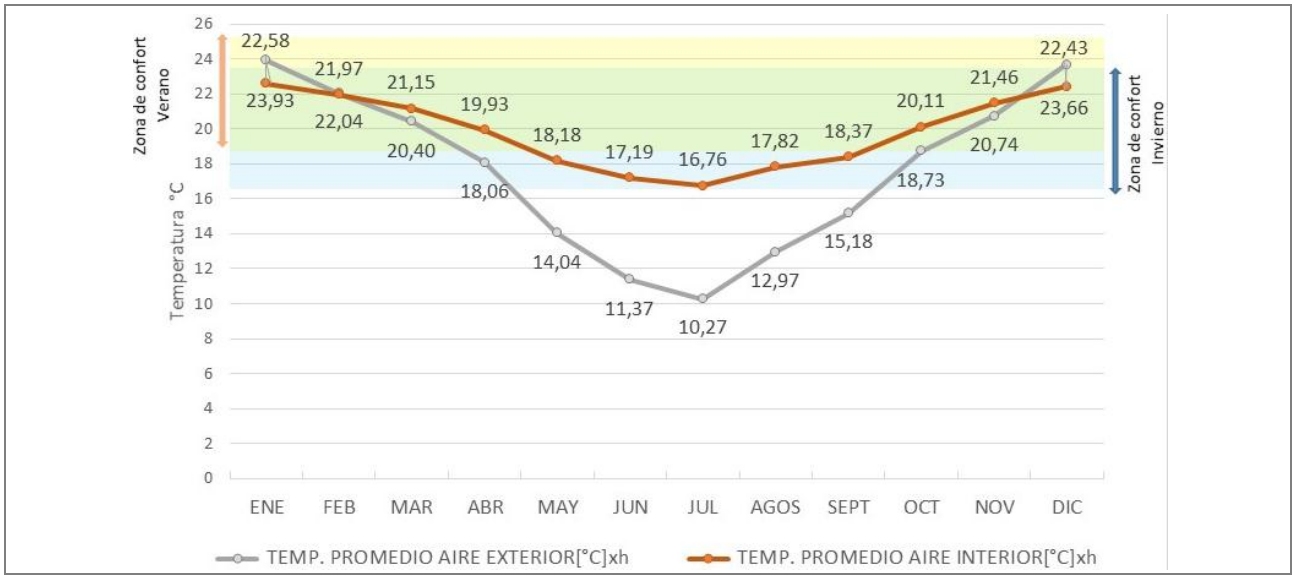

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,2 | 62,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **2,9** | **15,6** |
| | **Amortiguamiento:** | 0,340 | 0,003 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,7** | **14,6** |
| | **Amortiguamiento:** | 0,225 | 0,022 |

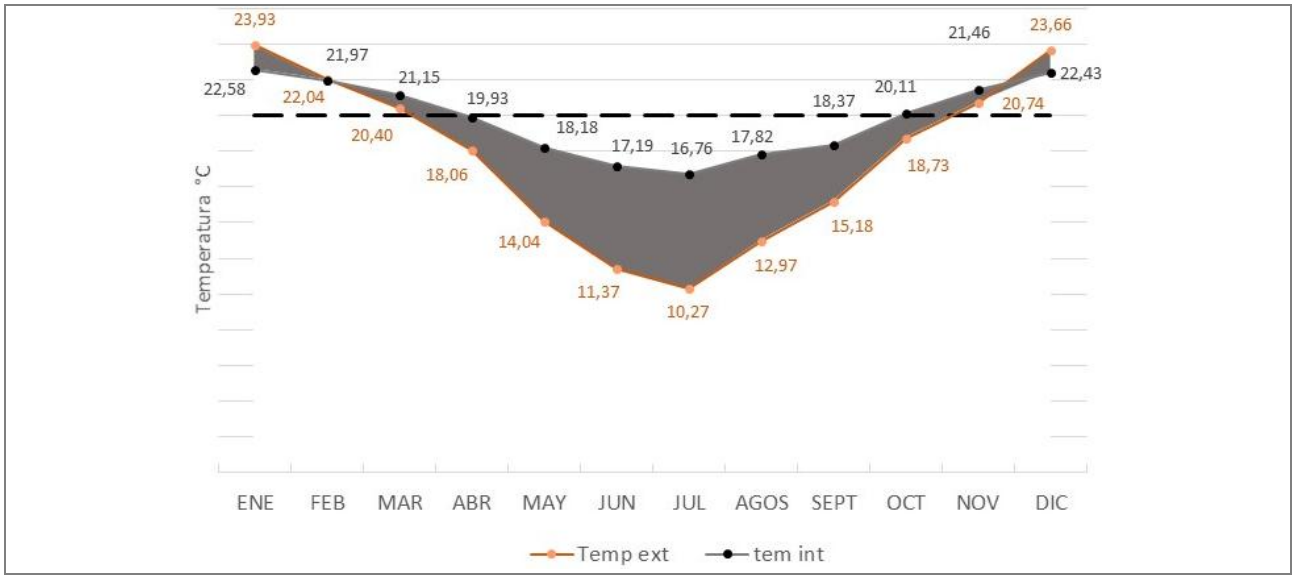
| FVE-011 | MU | FACHADA VENTILADA |
|---|---|---|

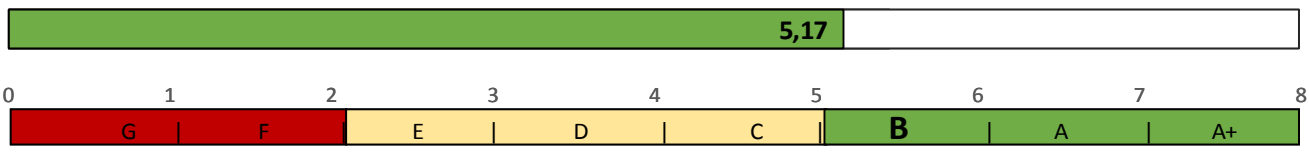
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 14/01 17:00 hs | **24,87** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 08:00 hs | **14,39** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



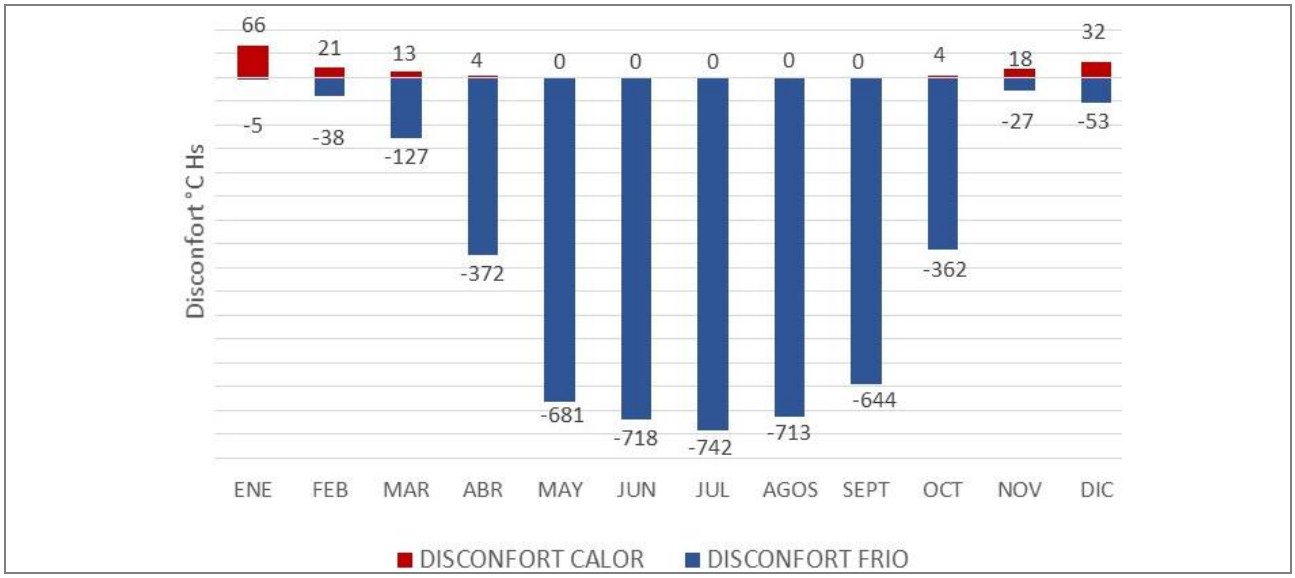




5,17 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| FVE-011 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

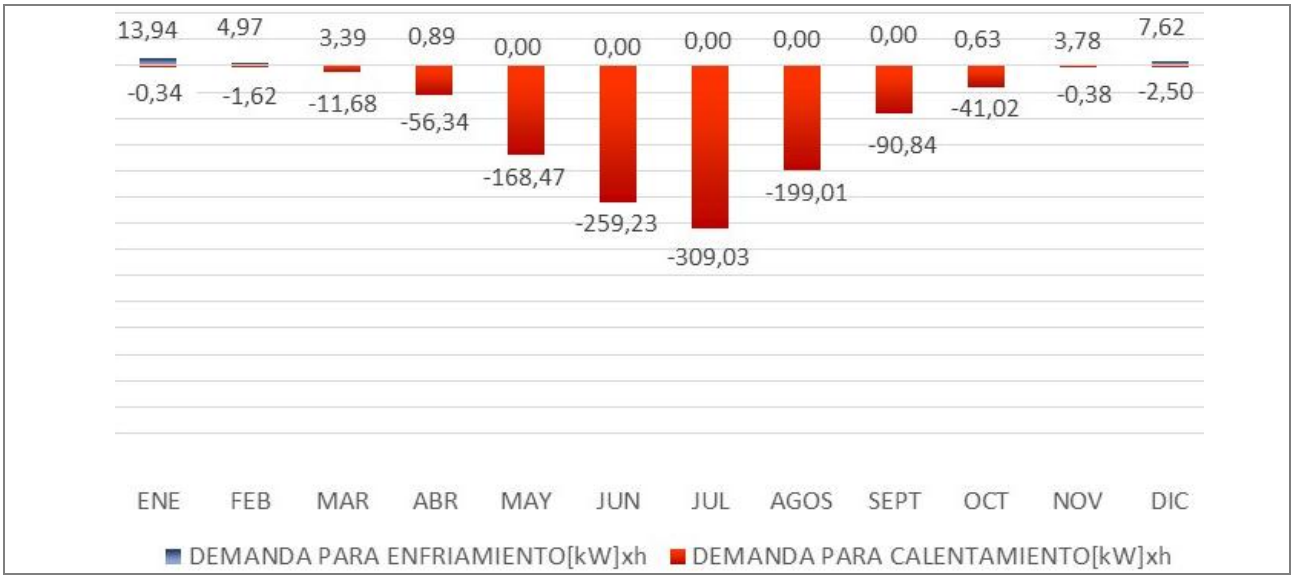
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **157** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.482** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.639** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

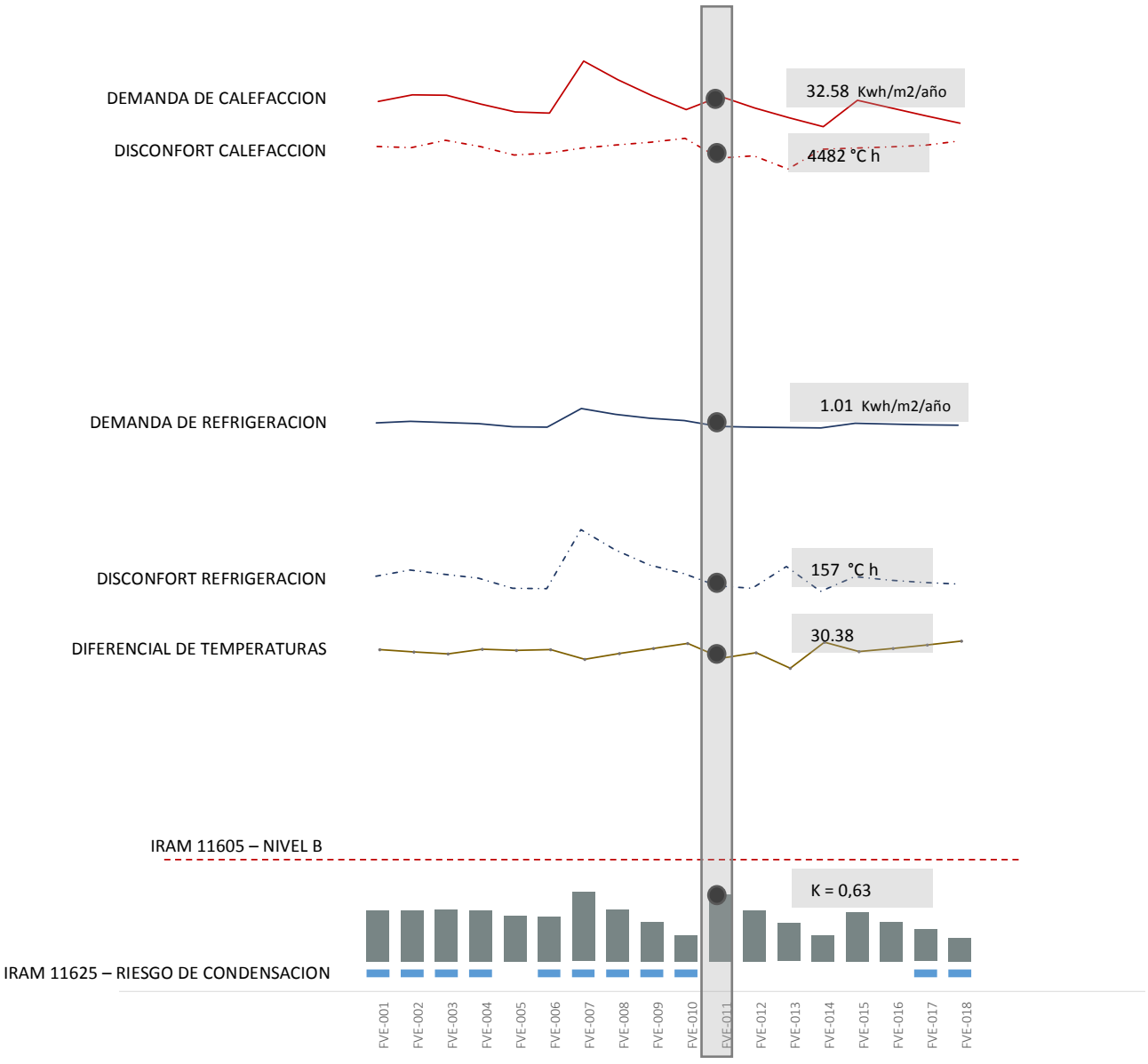



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **35,22** | kWh | 1,01 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.140,45** | kWh | 32,58 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.175,67** | kWh | **33,59** | kWh/m2/año |

| FVE-011 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 149 | N° 154 | N° 121 | N° 028 | N° 033 | N° 031 |



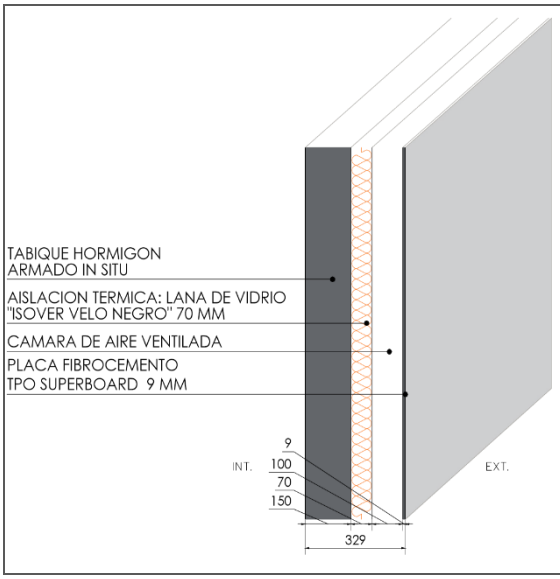

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,63 | 0% | 30,38 | 32,58 | 1,01 | 4482 | 157 |
| INC. FAMILIA | 150,80% | 0% | 97,83% | 104,66% | 58,16% | 98,45% | 64,11% |
| INC. MUNDIAL | 52,97% | 0% | 98,59% | 79,22% | 16,83% | 100,46% | 30,71% |

| FVE-012 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR TABIQUE H° A° IN SITU+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 70 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9MM.

## INDICE DE TRANSMITANCIA TERMICA "K"

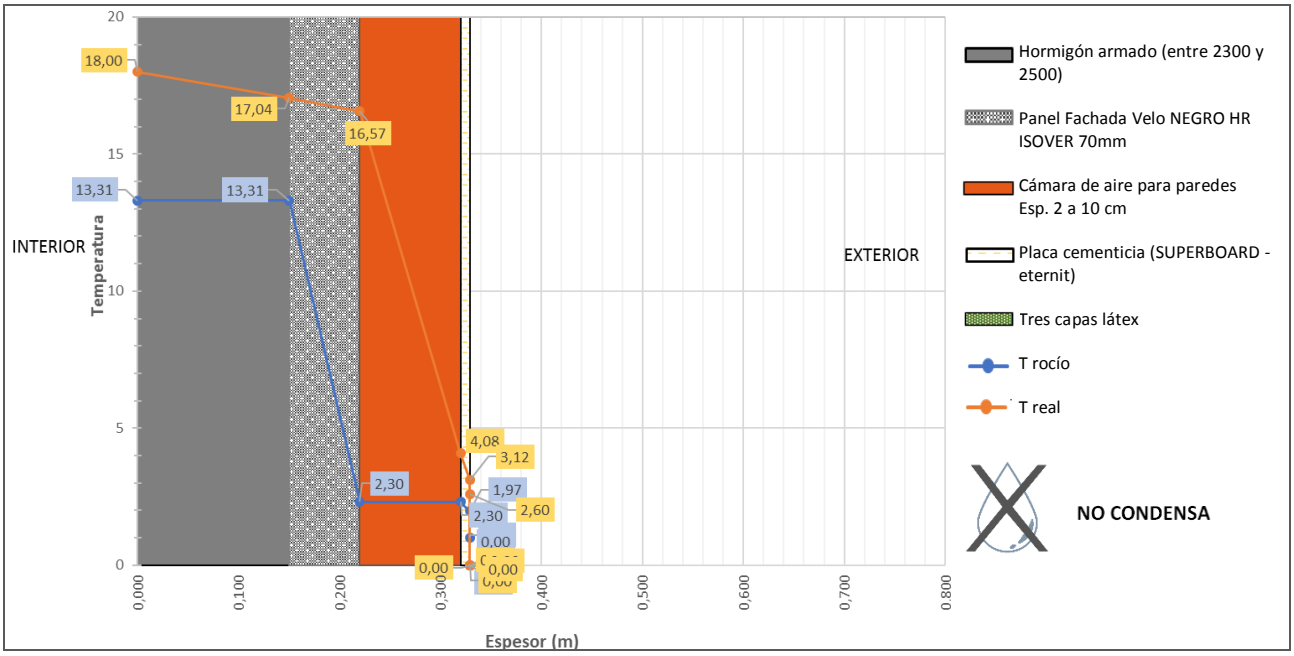
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,48 | 0,48 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



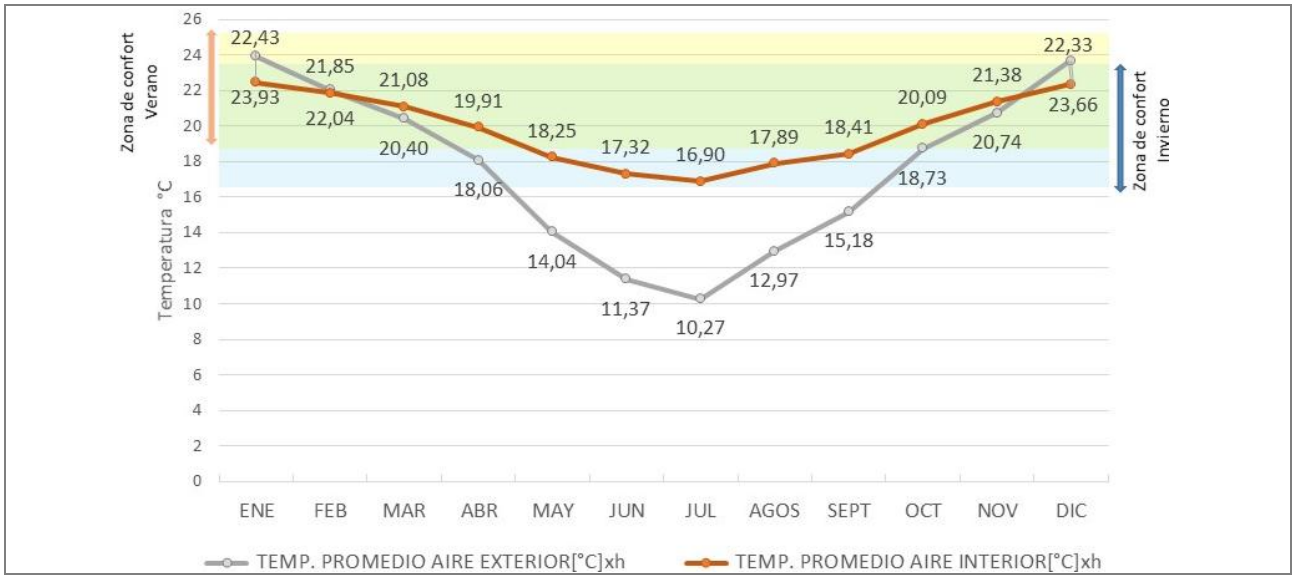

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,6 | 46,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,4** | **18,1** |
| | **Amortiguamiento:** | 0,286 | 0,001 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,9** | **17,0** |
| | **Amortiguamiento:** | 0,211 | 0,012 |

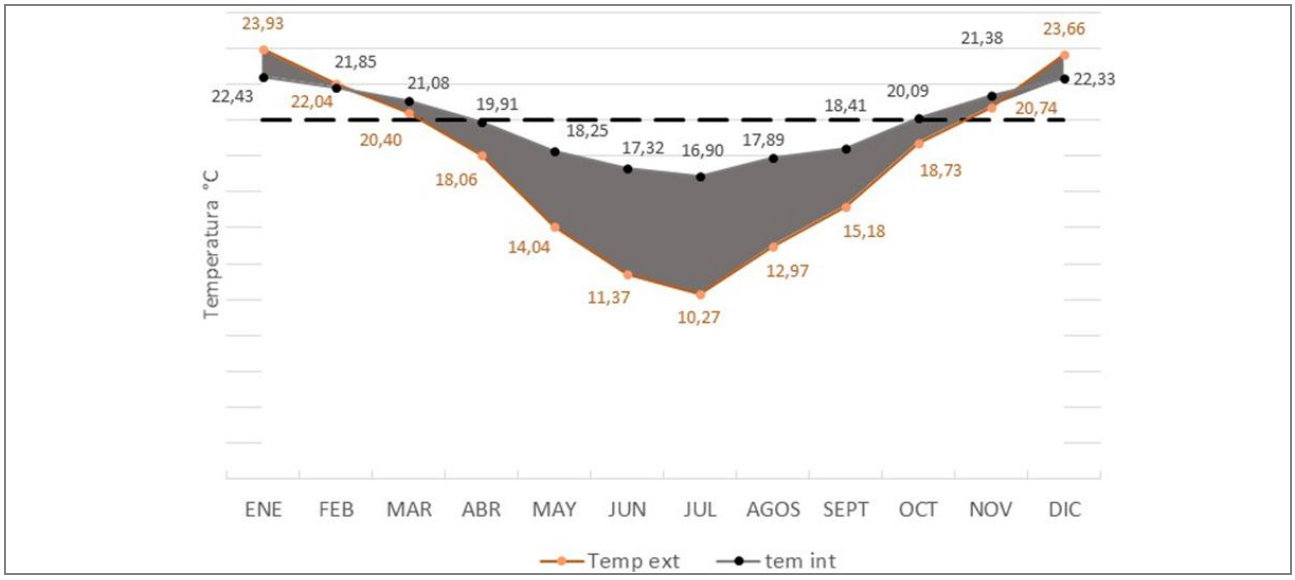
| FVE-012 | MU | FACHADA VENTILADA |
|---|---|---|

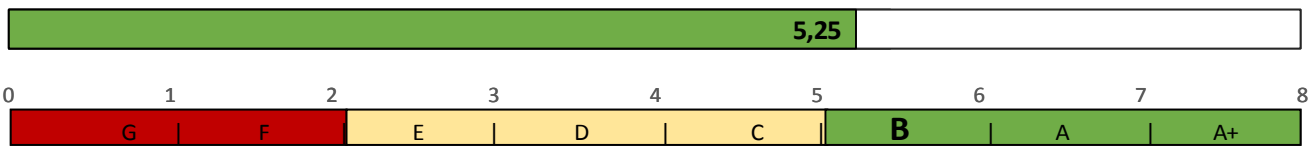
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 14/01 17:00 hs | **24,60** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 08:00 hs | **14,69** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



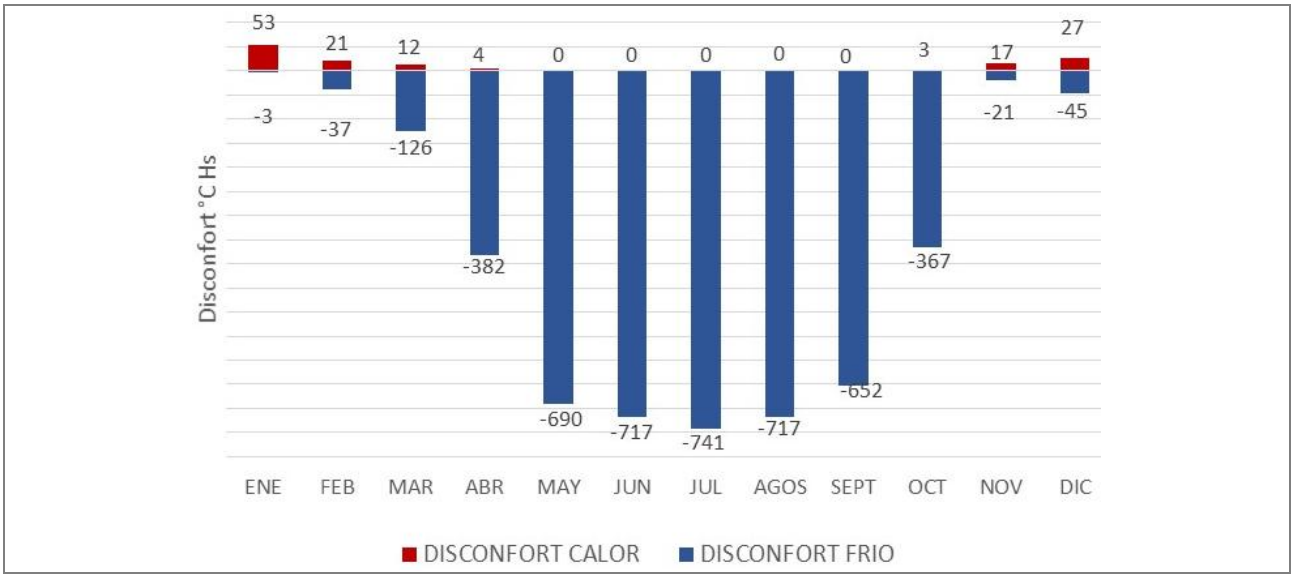




5,25 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| FVE-012 | MU | FACHADA VENTILADA |
|---|---|---|

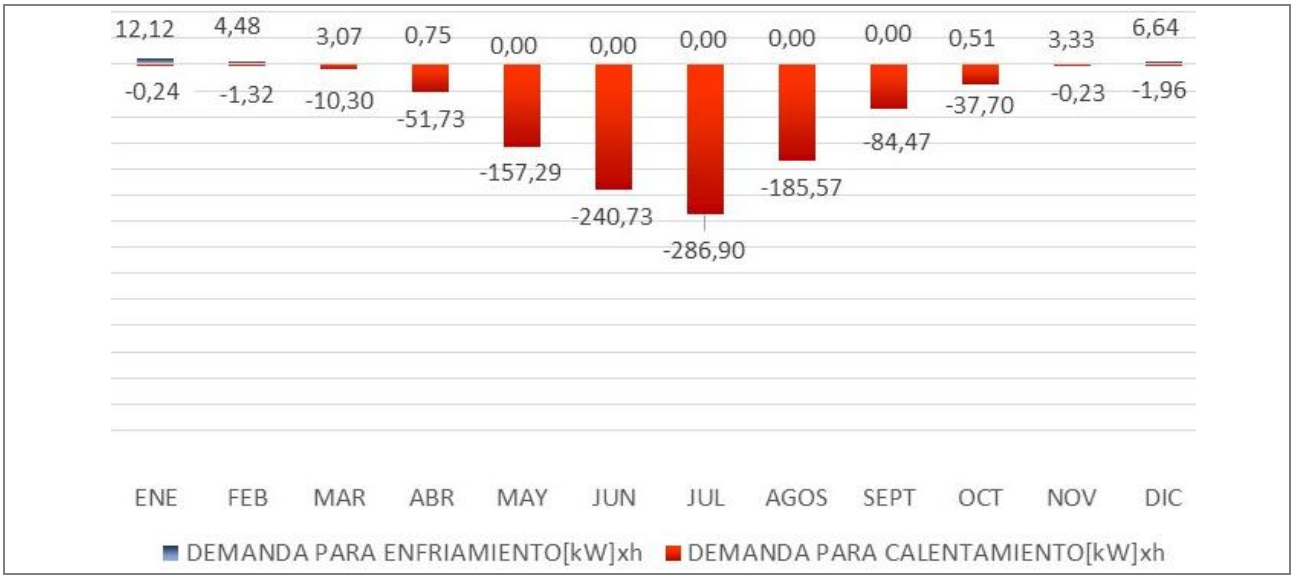
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **137** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.498** | °C Hs | 51% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.635** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

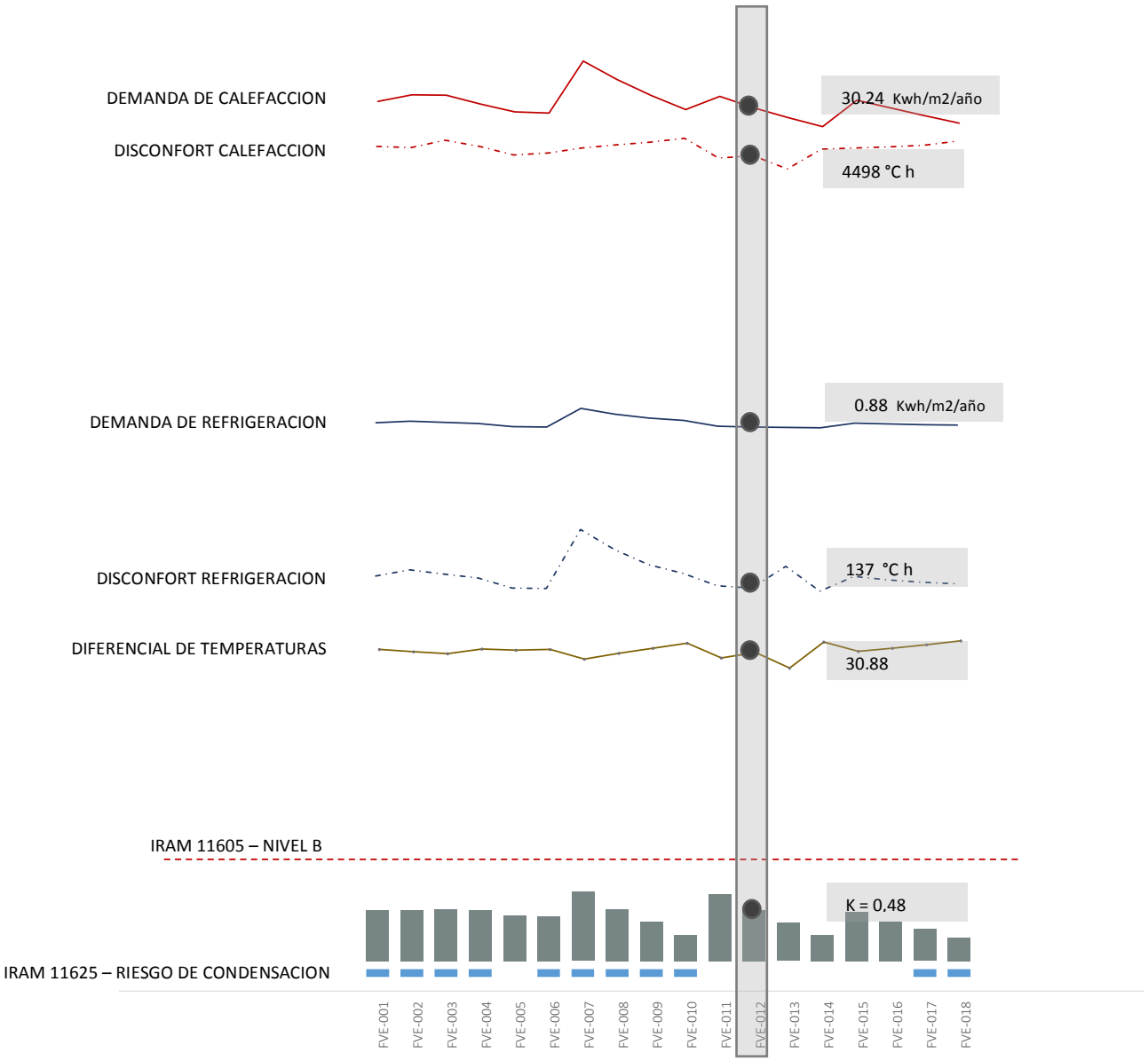



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **30,91** | kWh | 0,88 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.058,43** | kWh | 30,24 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.089,34** | kWh | **31,12** | kWh/m2/año |

| FVE-012 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 113 | N° 126 | N° 078 | N° 009 | N° 053 | N° 013 |



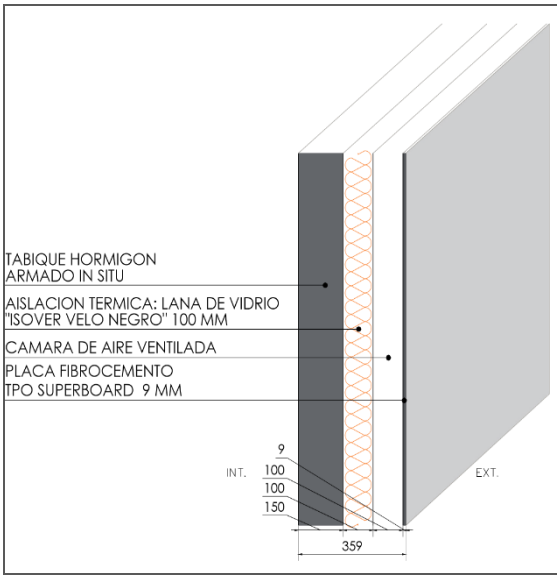

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,48 | 0% | 30,88 | 30,24 | 0,88 | 4498,00 | 137,00 |
| INC. FAMILIA | 114,89% | 0% | 99,44% | 97,14% | 50,67% | 98,80% | 55,94% |
| INC. MUNDIAL | 40,36% | 0% | 100,21% | 73,53% | 14,66% | 100,82% | 26,80% |

| FVE-013 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR TABIQUE H° A° IN SITU+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 100 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD.

## INDICE DE TRANSMITANCIA TERMICA "K"

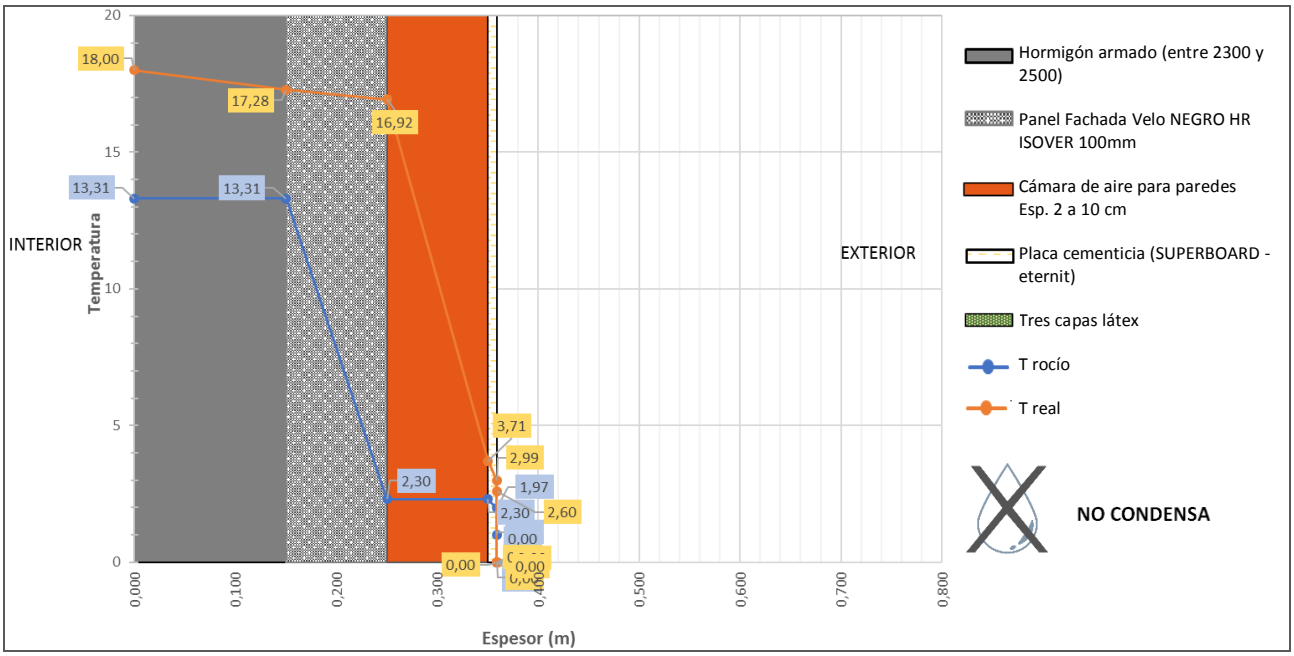
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



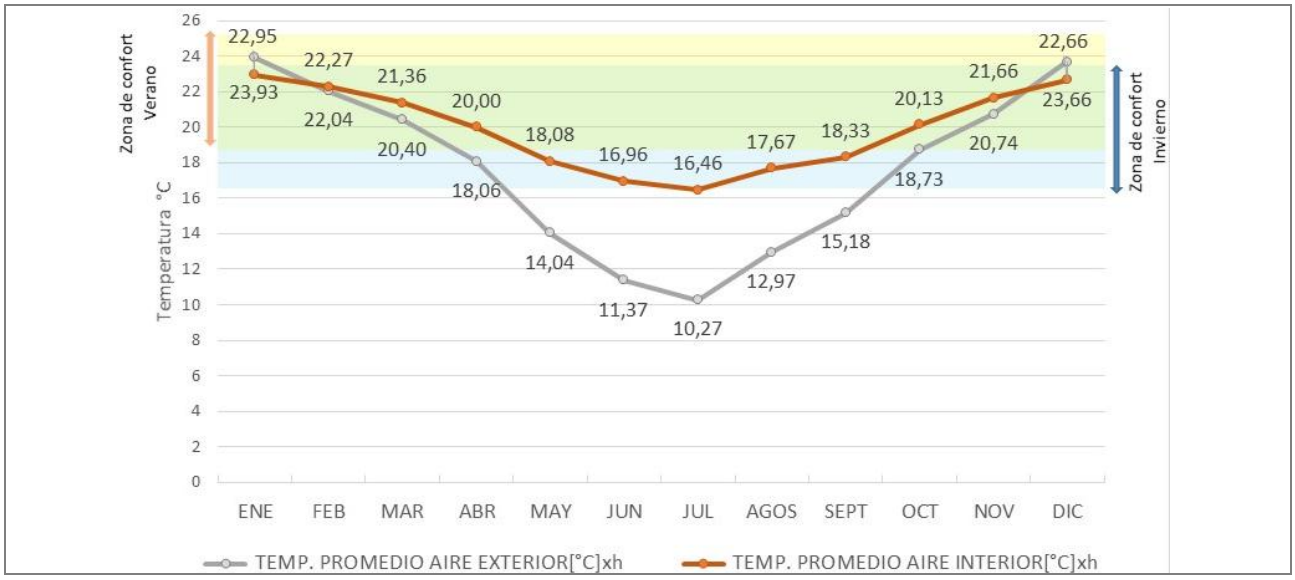

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,2 | 33,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **3,9** | **21,1** |
| | **Amortiguamiento:** | 0,232 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,2** | **19,8** |
| | **Amortiguamiento:** | 0,195 | 0,006 |

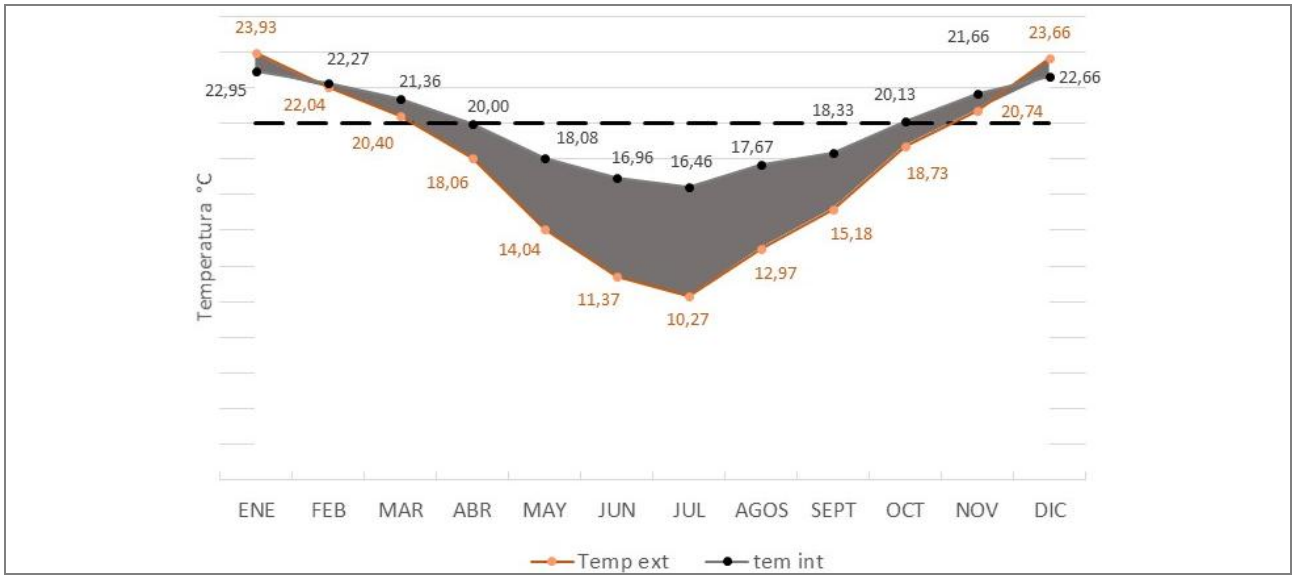
| FVE-013 | MU | FACHADA VENTILADA |
|---|---|---|

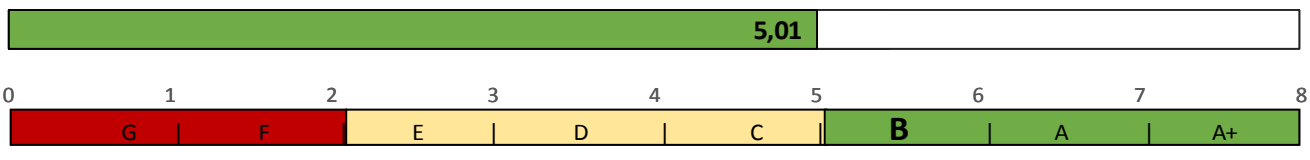
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 14/01 16:00 hs | **25,48** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 07:00 hs | **13,93** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



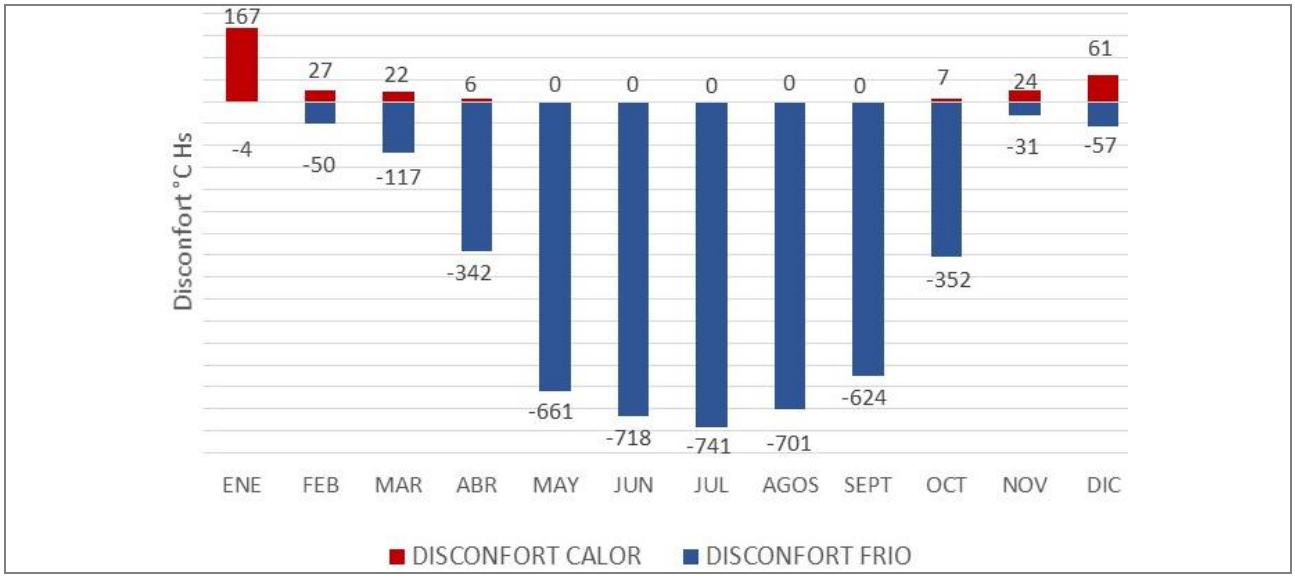




5,01 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| FVE-013 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

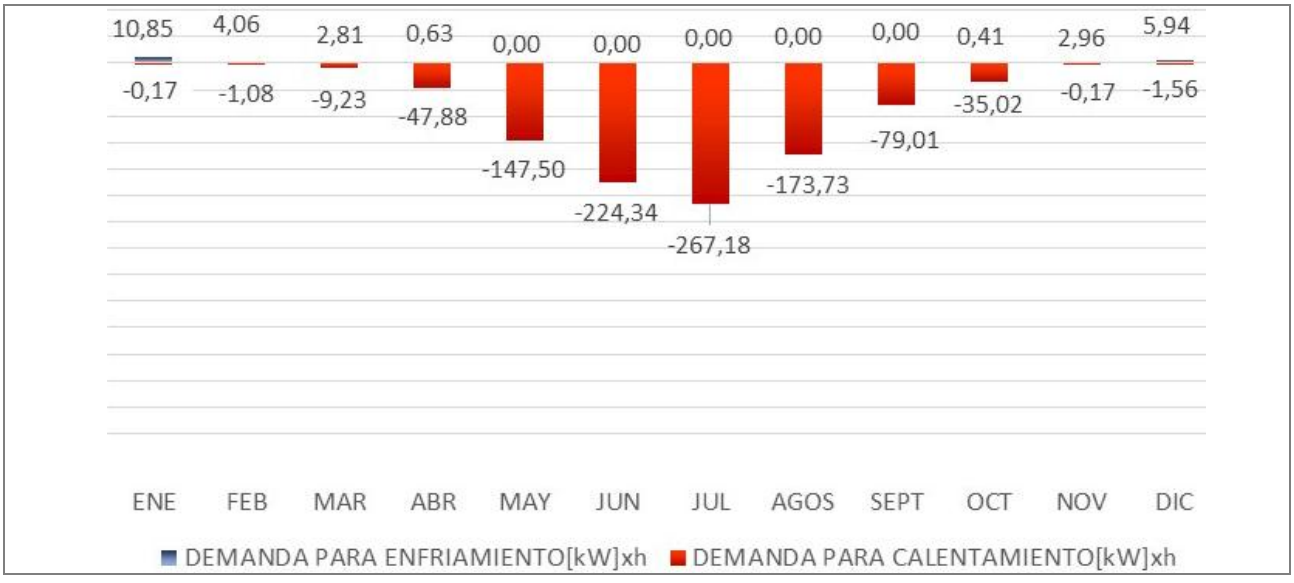
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **313** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.398** | °C Hs | 50% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.711** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

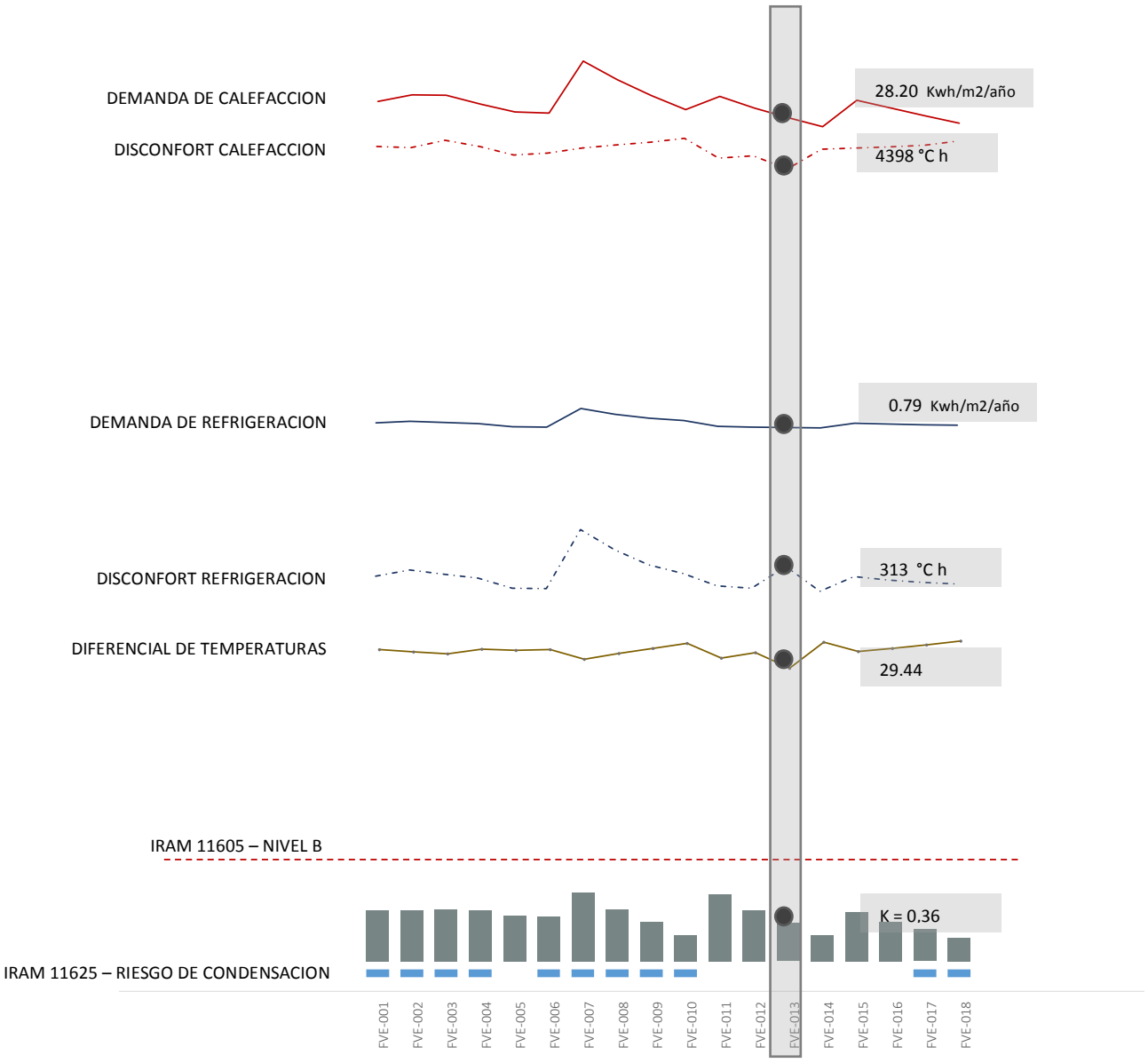



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **27,65** | kWh | 0,79 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **986,88** | kWh | 28,20 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.014,53** | kWh | **28,99** | kWh/m2/año |

| FVE-013 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 049 | N° 172 | N° 009 | N° 004 | N° 010 | N° 146 |



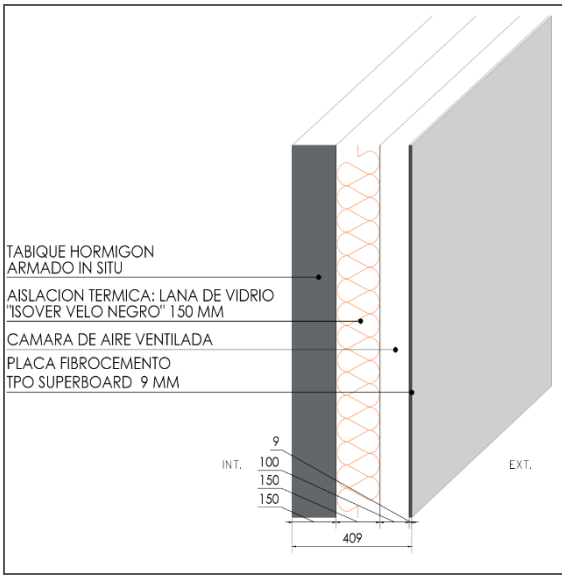

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,36 | 0% | 29,44 | 28,2 | 0,79 | 4398 | 313 |
| INC. FAMILIA | 86,17% | 0% | 94,80% | 90,59% | 45,49% | 96,60% | 127,81% |
| INC. MUNDIAL | 30,27% | 0% | 95,54% | 68,57% | 13,16% | 98,58% | 61,23% |

| FVE-014 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR TABIQUE H° A° IN SITU+ AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 150 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD.

## INDICE DE TRANSMITANCIA TERMICA "K"

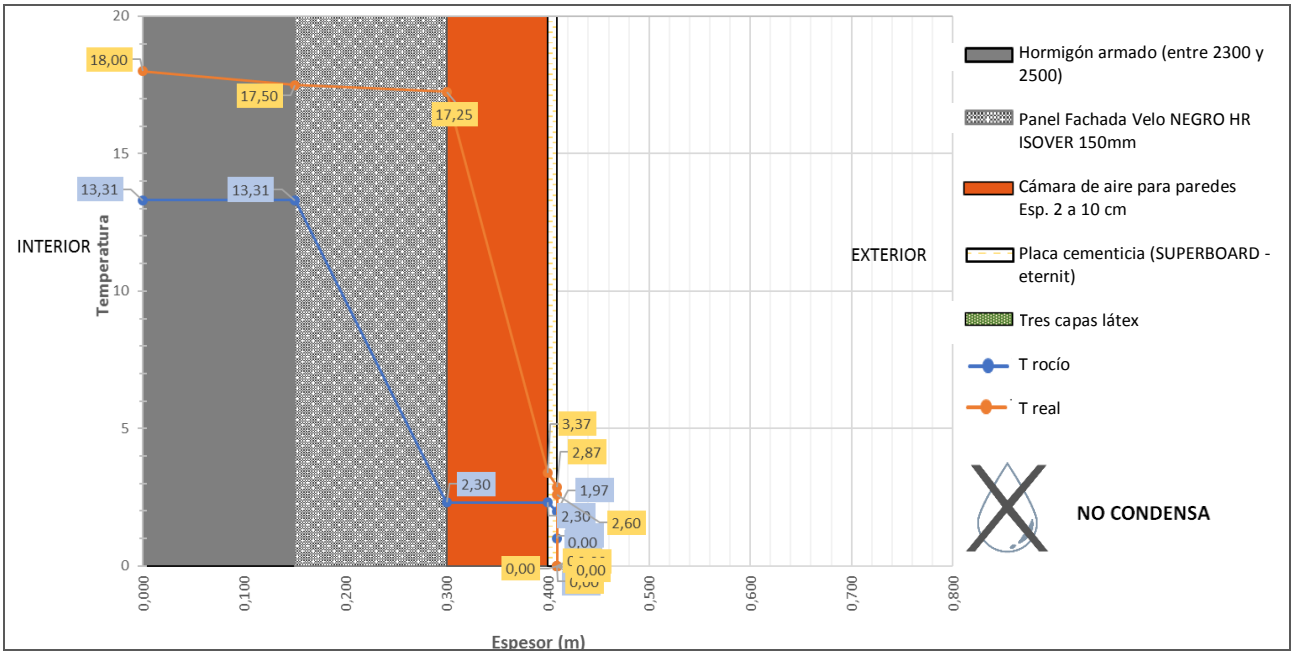
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,25 | 0,25 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 0,8 | 23,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,8** | **25,5** |
| | **Amortiguamiento:** | 0,171 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,7** | **23,9** |
| | **Amortiguamiento:** | 0,171 | 0,002 |

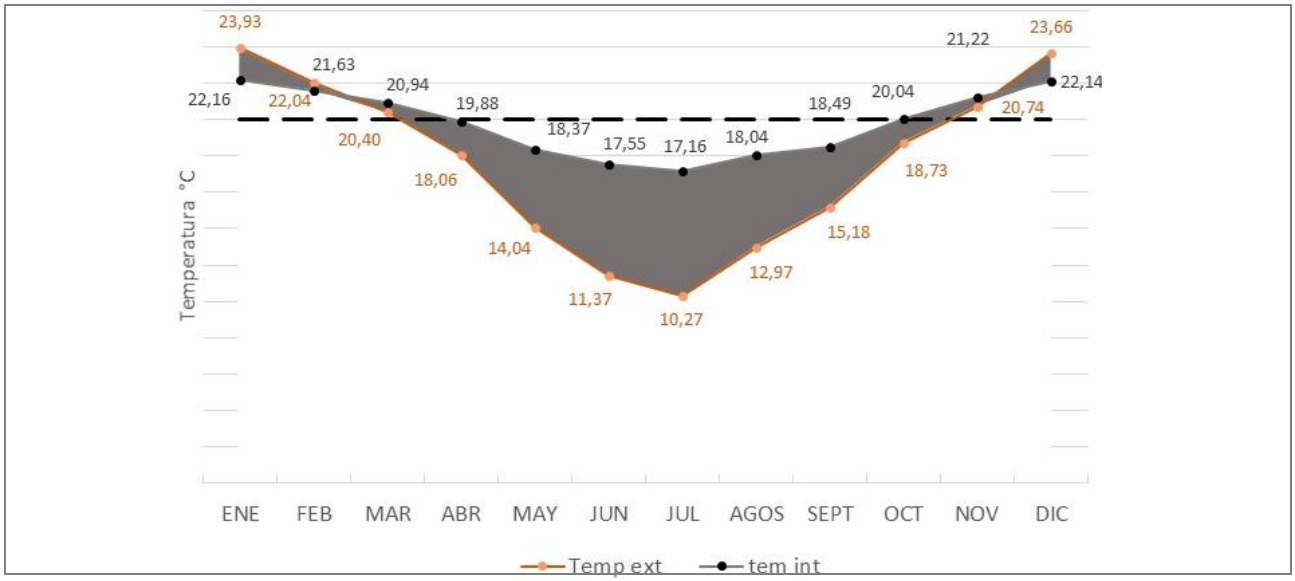
| FVE-014 | MU | FACHADA VENTILADA |
|---|---|---|

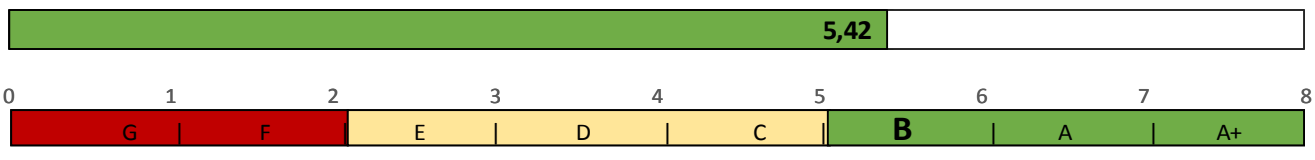
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 14/01 16:00 hs | **24,14** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 08:00 hs | **15,24** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



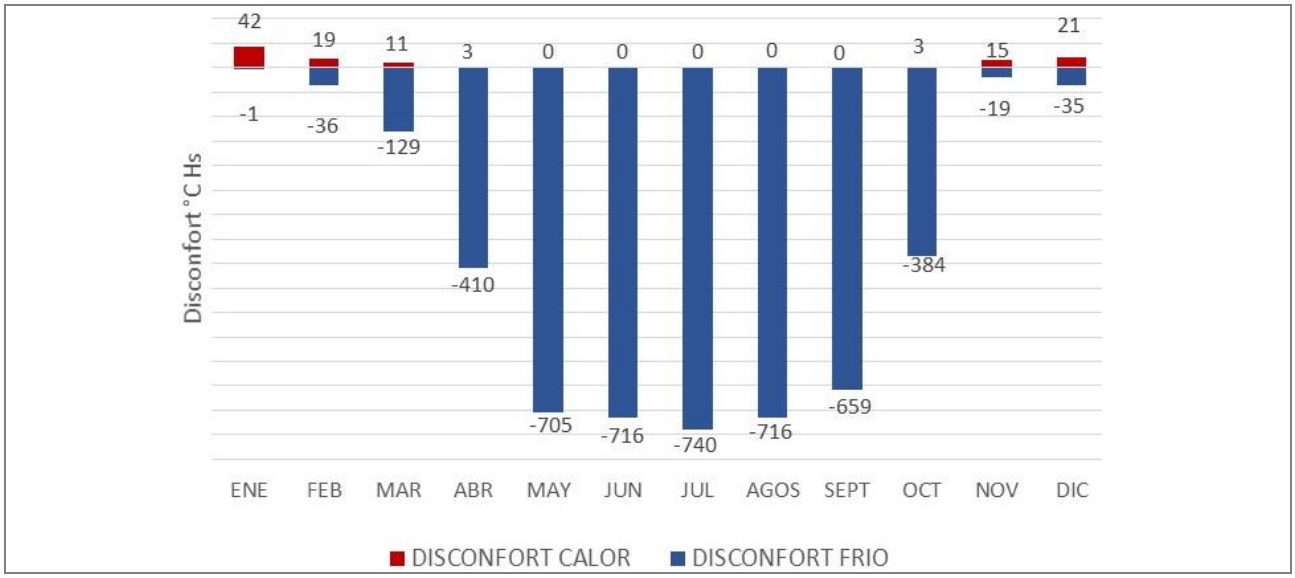




5,42 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,68

| FVE-014 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

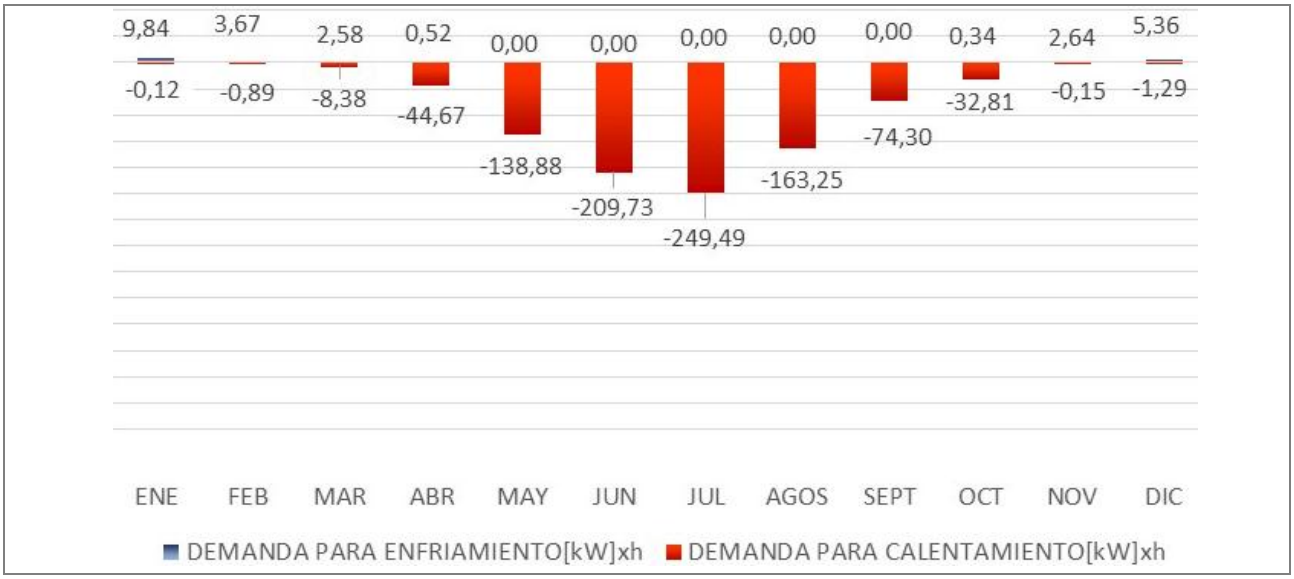
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **113** | °C Hs | 1% |
| HORAS DE DISCONFORT POR FRÍO | **4.550** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.663** | **°C Hs** | **53%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

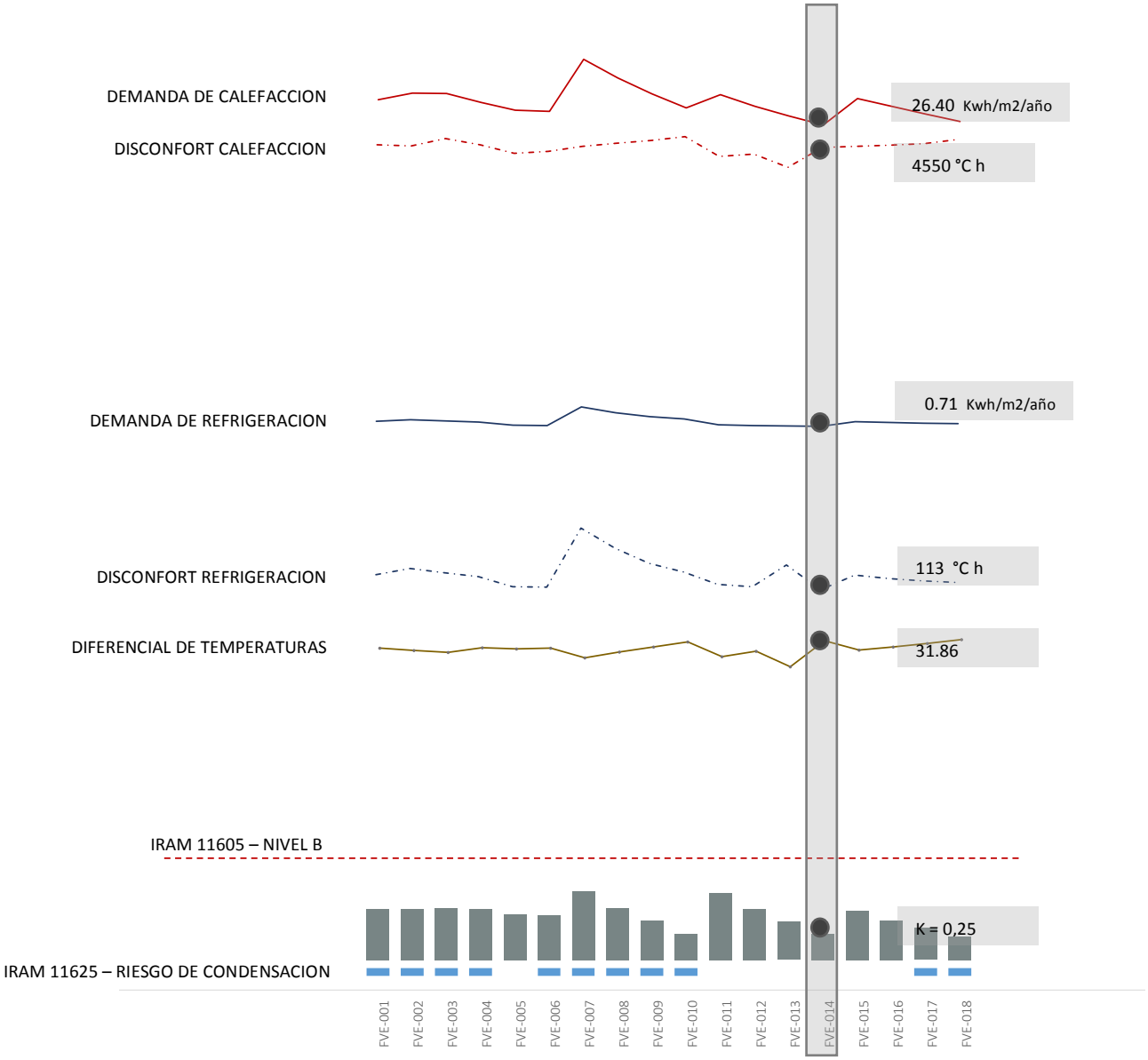



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **24,94** | kWh | 0,71 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **923,95** | kWh | 26,40 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **948,88** | kWh | **27,11** | kWh/m2/año |

| FVE-014 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 005 | N° 013 | N° 001 | N° 002 | N° 103 | N° 002 |



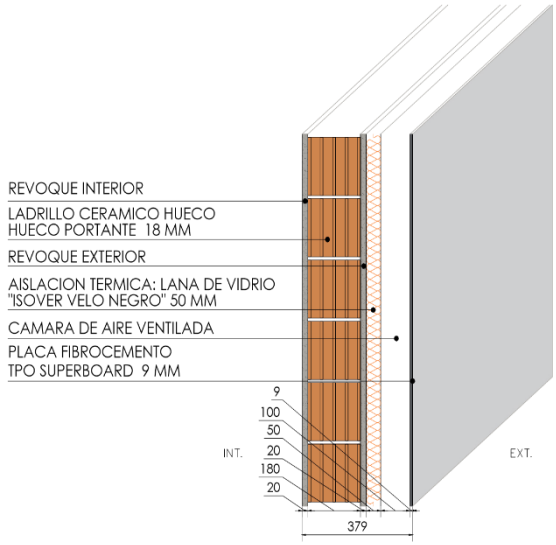

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,25 | 0% | 31,86 | 26,40 | 0,71 | 4550,00 | 113,00 |
| INC. FAMILIA | 59,84% | 0% | 102,59% | 84,81% | 40,88% | 99,94% | 46,14% |
| INC. MUNDIAL | 21,02% | 0% | 103,40% | 64,19% | 11,83% | 101,98% | 22,11% |

| FVE-015 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR MURO LADRILLO CERAMICO PORTANTE 18 CM REVOCADO AMBAS CARAS + AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 50 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9 MM.

## INDICE DE TRANSMITANCIA TERMICA "K"

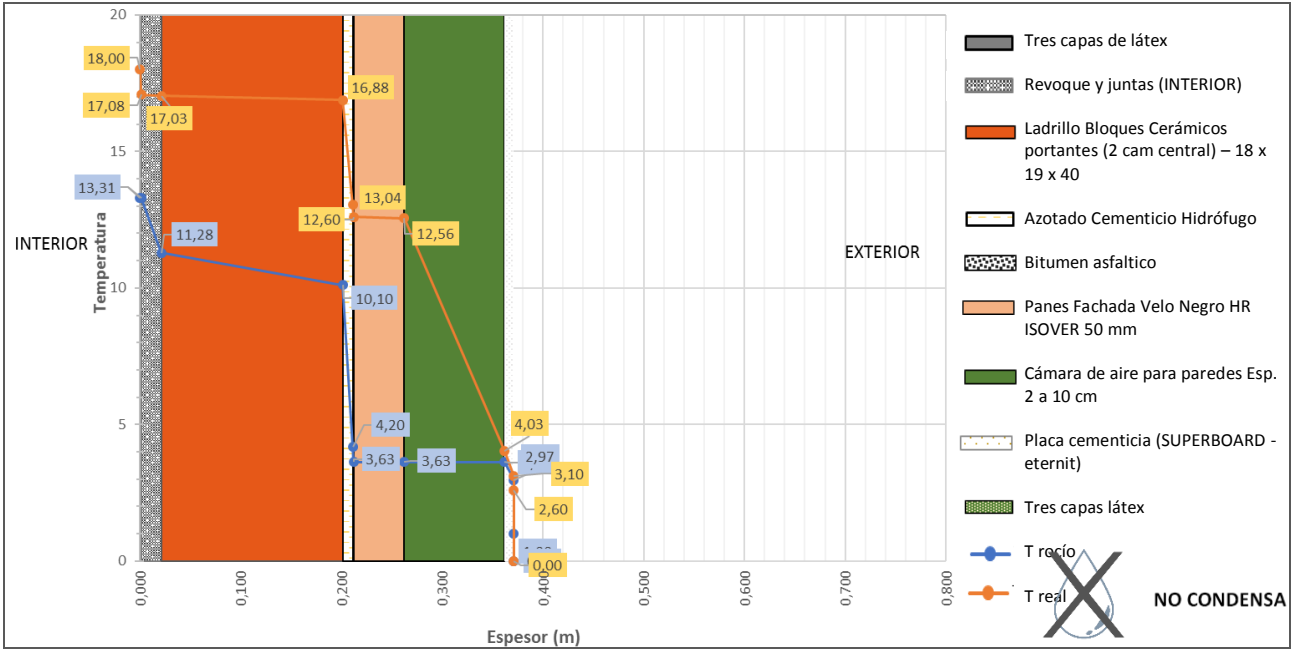
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,46 | 0,46 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 5,6 | 5,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,5** | **6,5** |
| | **Amortiguamiento:** | 0,089 | 0,089 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **3,7** | **5,3** |
| | **Amortiguamiento:** | 0,376 | |

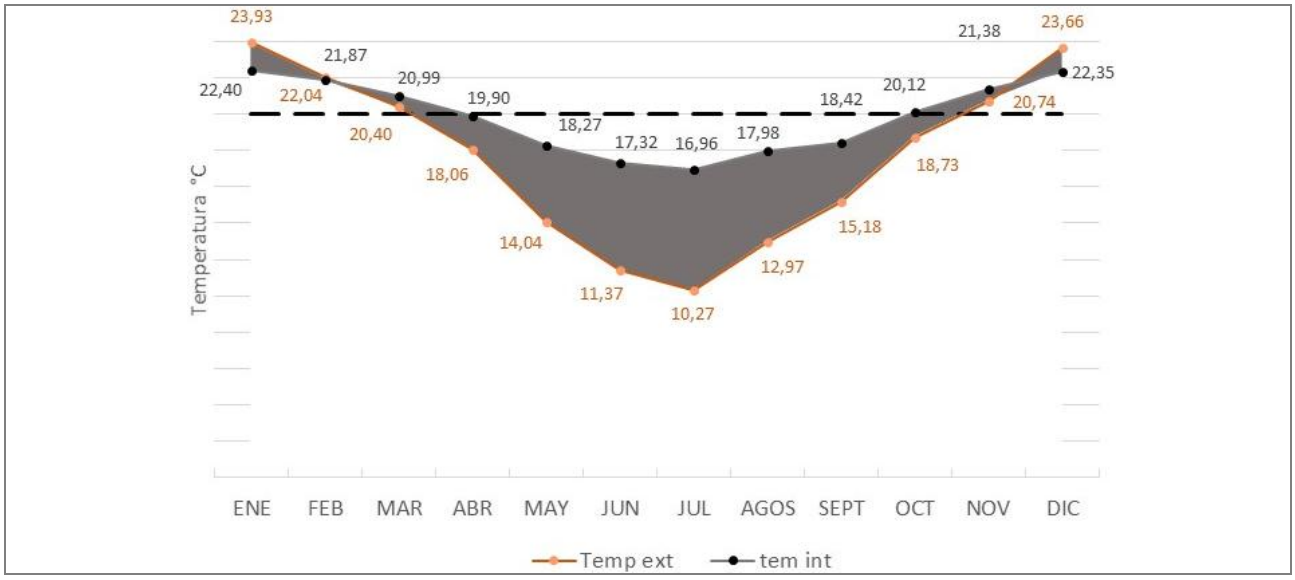
| FVE-015 | MU | FACHADA VENTILADA |
|---|---|---|

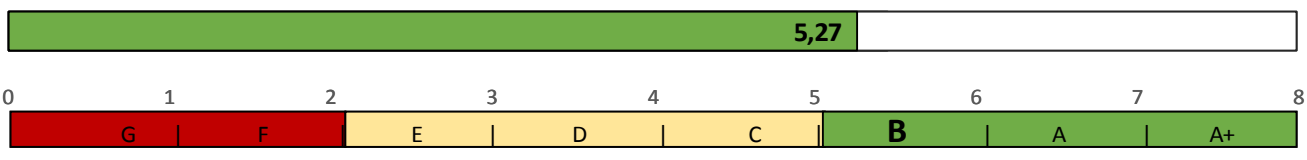
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 18:00 hs | **25,22** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 09:00 hs | **14,16** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



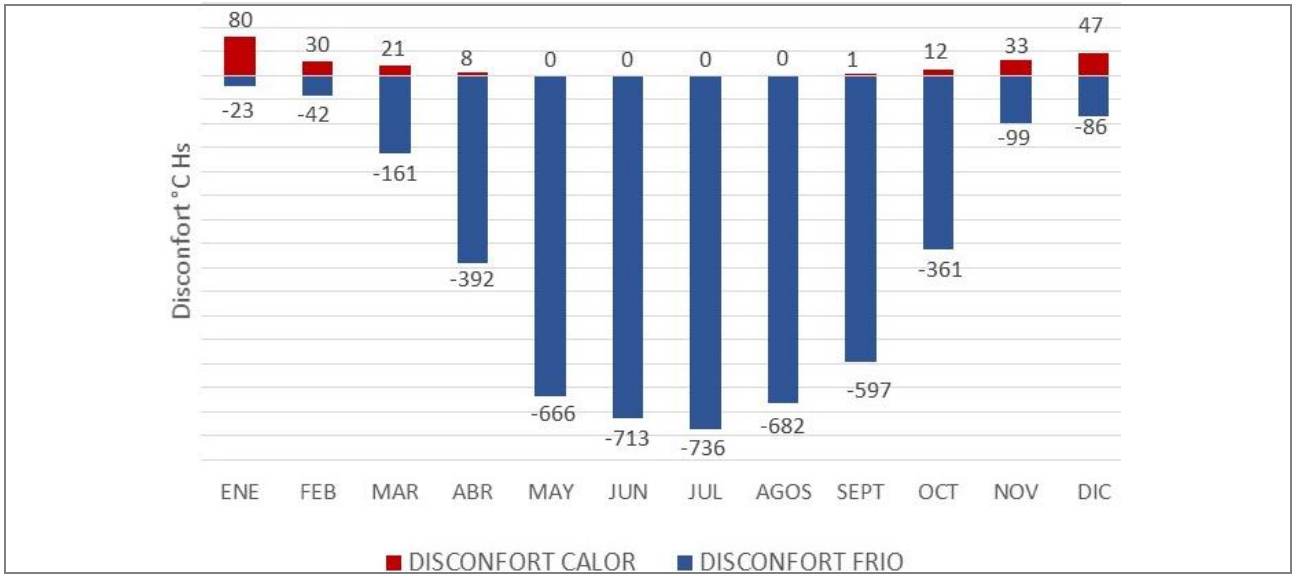




5,27 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| FVE-015 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

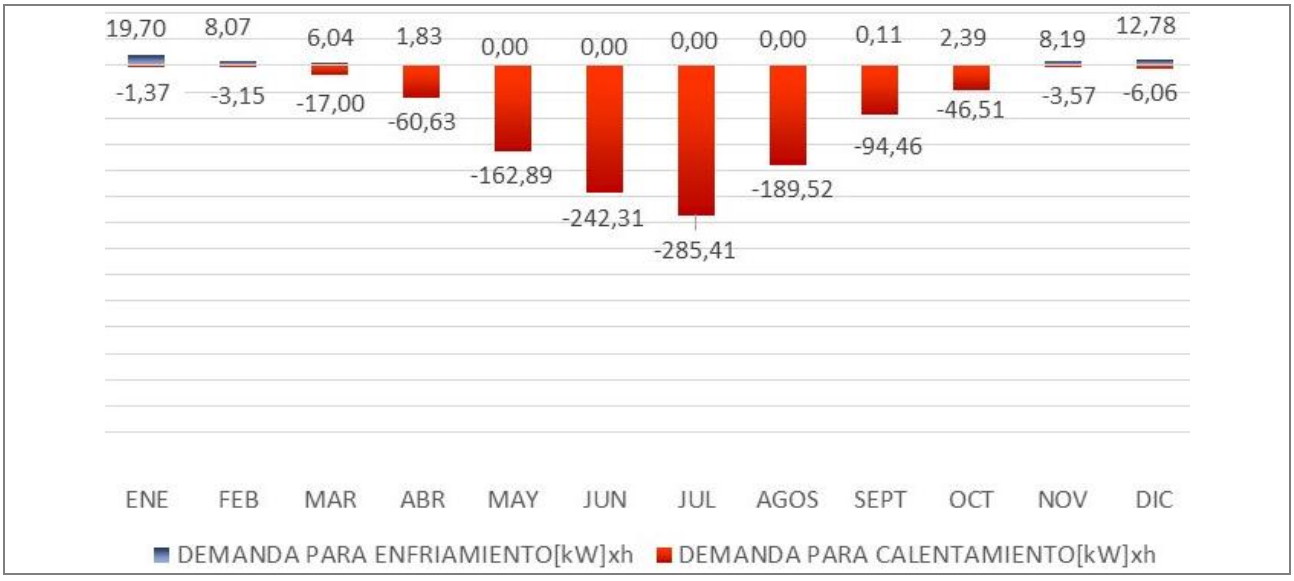
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **232** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.557** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.789** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

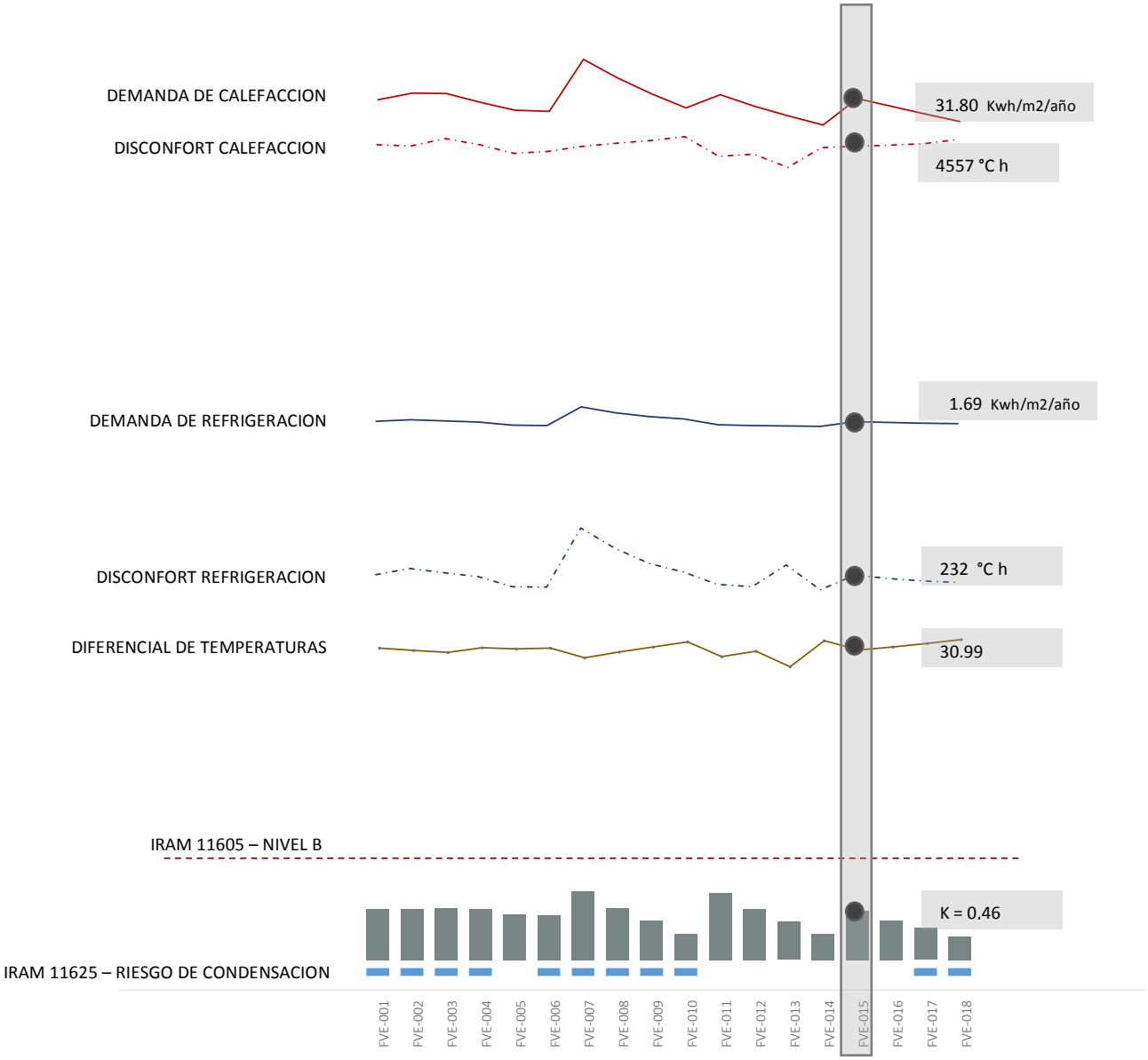



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **59,10** | kWh | 1,69 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.112,88** | kWh | 31,80 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.171,99** | kWh | **33,49** | kWh/m2/año |

| FVE-015 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 100 | N° 110 | N° 110 | N° 133 | N° 111 | N° 121 |



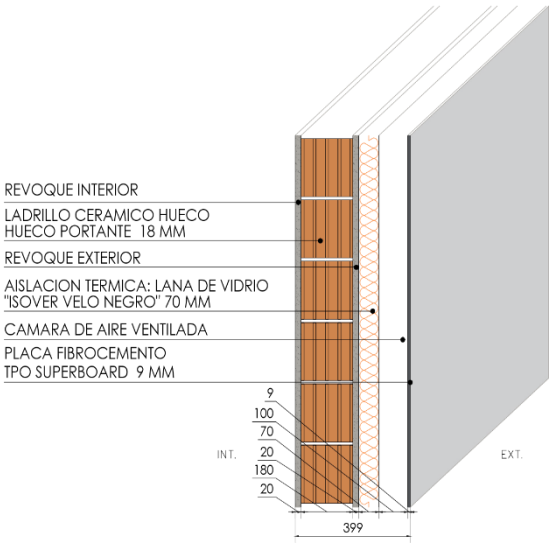

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,46 | 0% | 30,99 | 31,8 | 1,69 | 4557 | 232 |
| INC. FAMILIA | 110,11% | 0% | 99,79% | 102,16% | 97,31% | 100,10% | 94,74% |
| INC. MUNDIAL | 38,68% | 0% | 100,57% | 77,32% | 28,16% | 102,14% | 45,39% |

| FVE-016 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR MURO LADRILLO CERAMICO PORTANTE 18 CM REVOCADO AMBAS CARAS + AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 70 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9 MM.

## INDICE DE TRANSMITANCIA TERMICA "K"

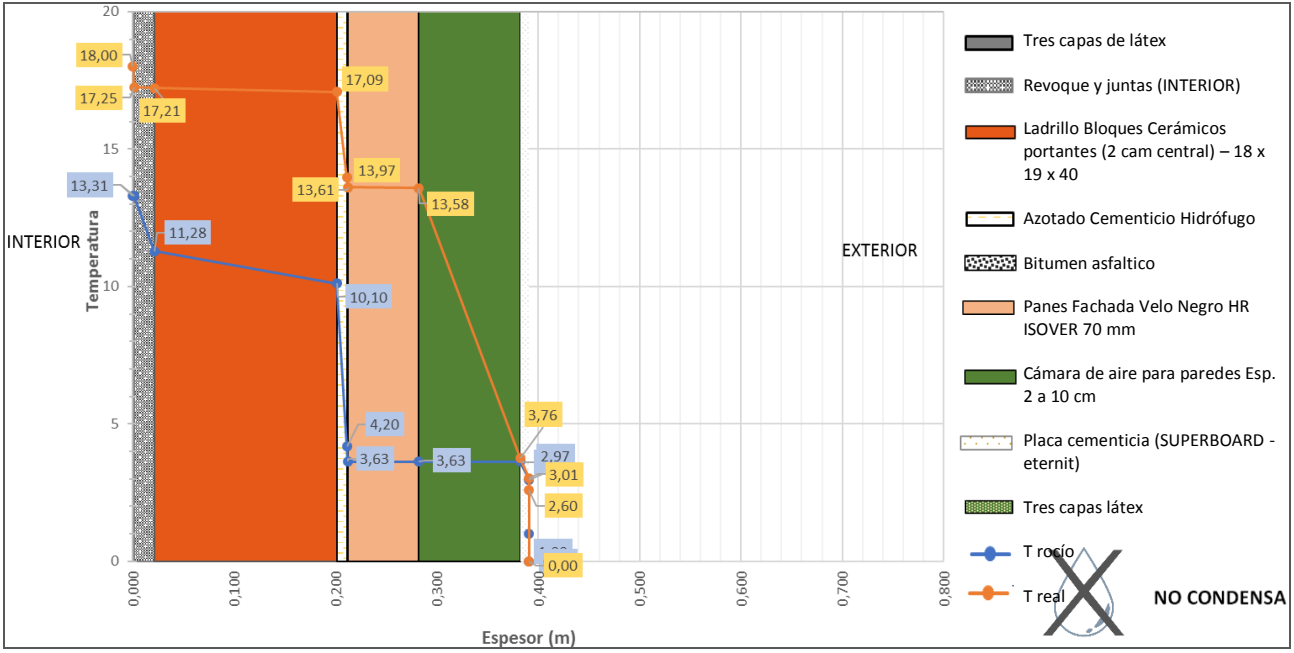
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,37 | 0,37 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,5 | 4,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,3** | **7,3** |
| | **Amortiguamiento:** | 0,066 | 0,066 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,1** | **6,0** |
| | **Amortiguamiento:** | 0,344 | 0,211 |

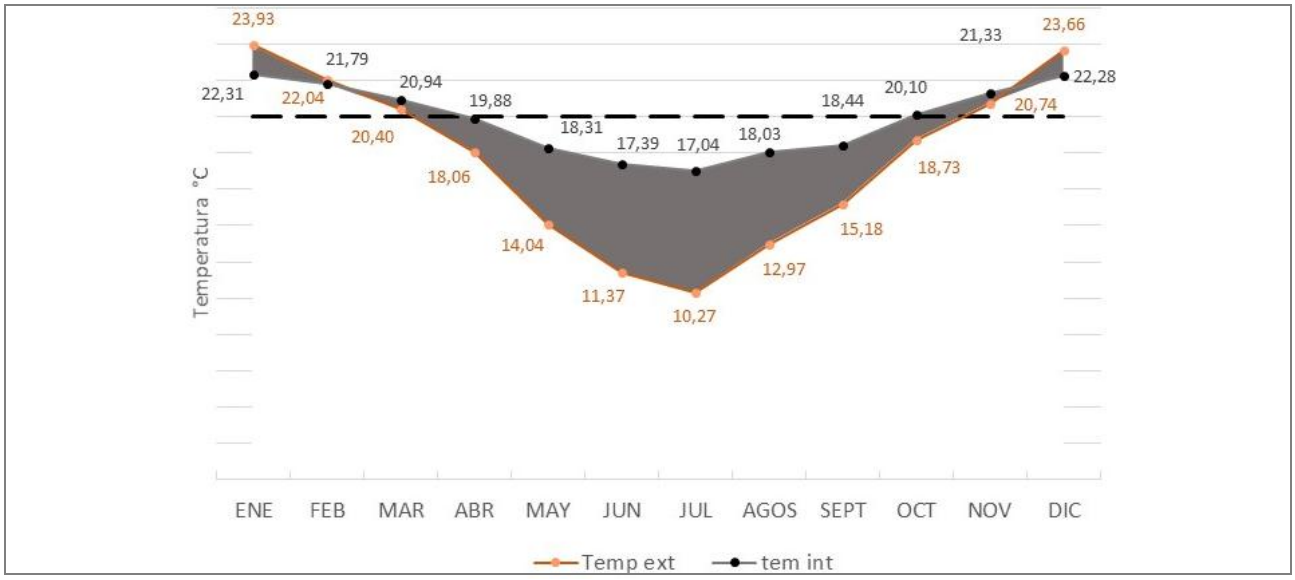
| FVE-016 | MU | FACHADA VENTILADA |
|---|---|---|

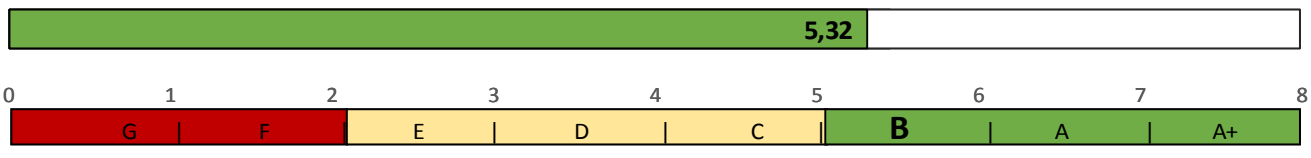
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 18:00 hs | **24,98** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 09:00 hs | **14,43** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



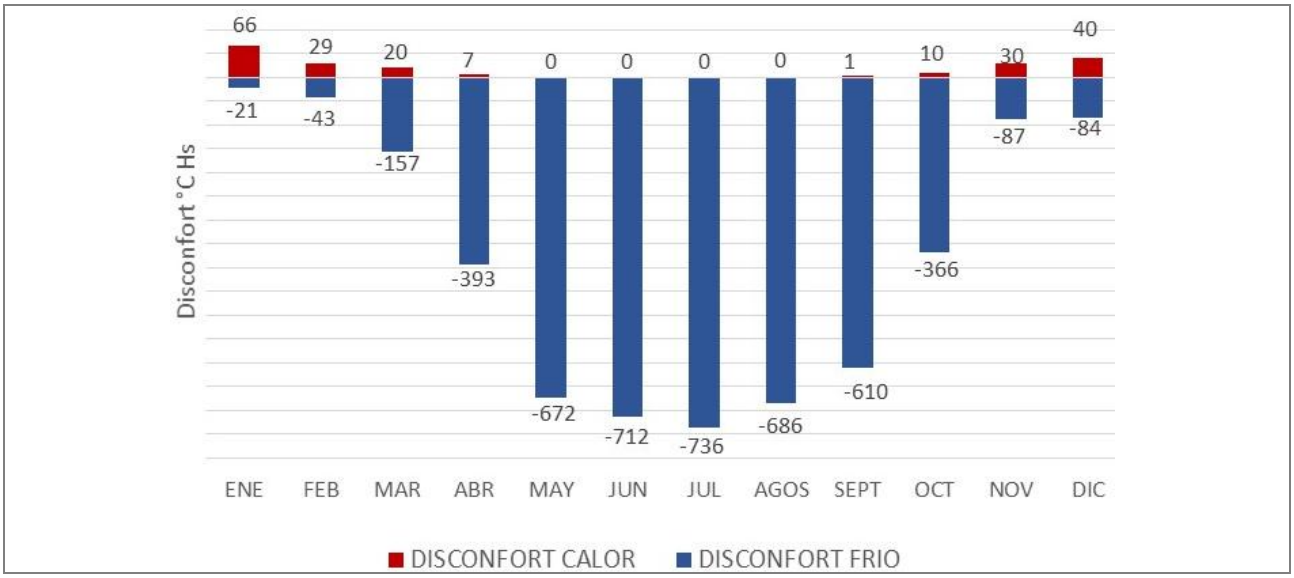




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| FVE-016 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

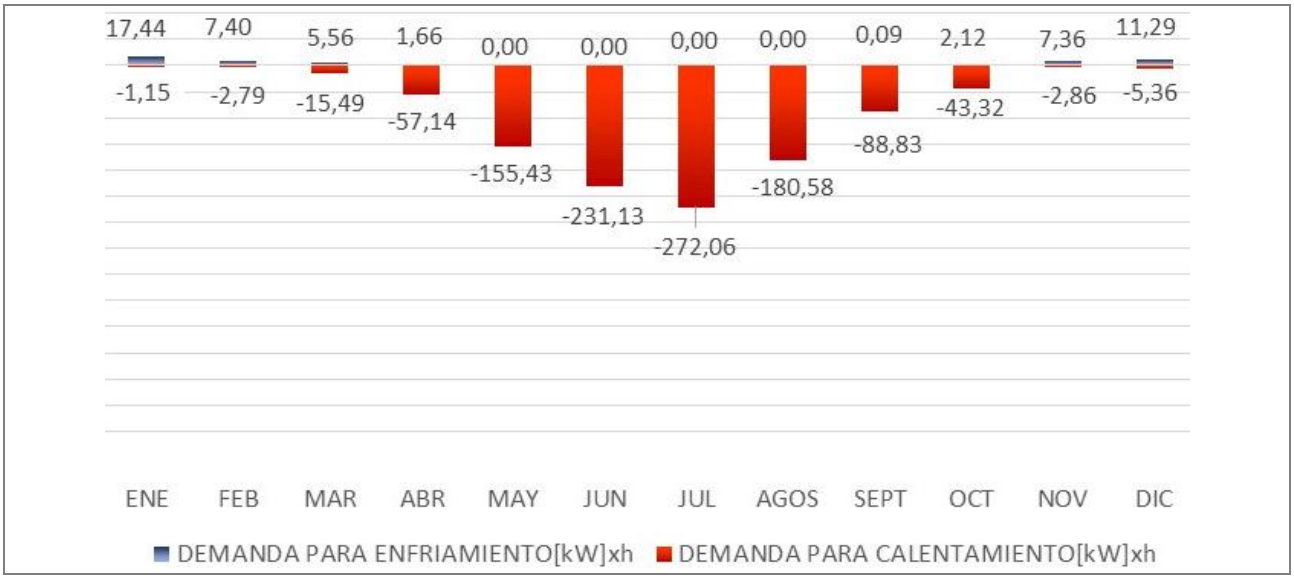
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **202** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.567** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.769** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

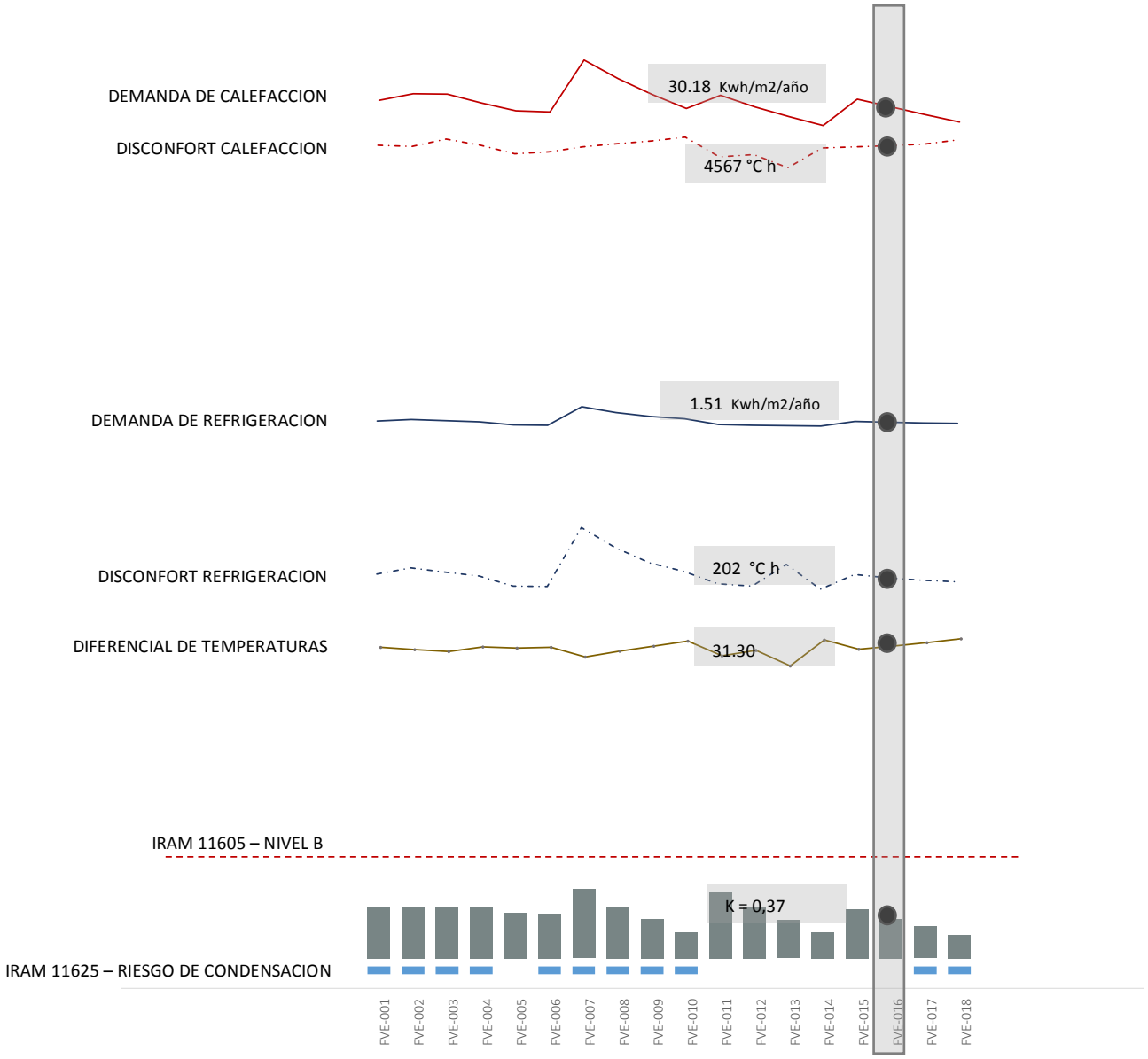



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **52,91** | kWh | 1,51 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.056,14** | kWh | 30,18 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.109,05** | kWh | **31,69** | kWh/m2/año |

| FVE-016 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 064 | N° 070 | N° 074 | N° 106 | N° 118 | N° 093 |



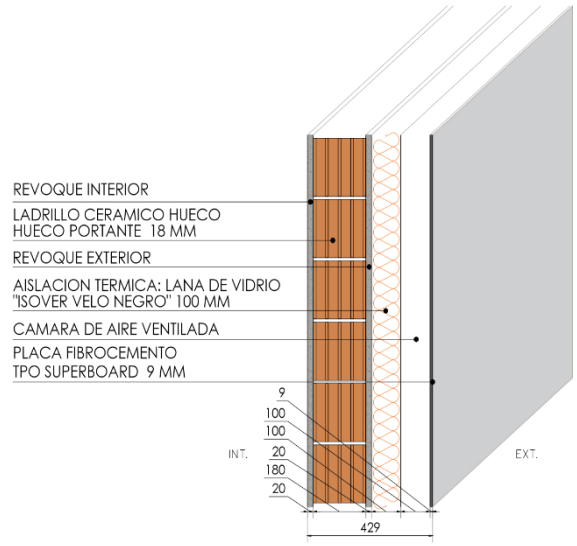

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,37 | 0% | 31,30 | 30,18 | 1,51 | 4567,00 | 202,00 |
| INC. FAMILIA | 88,56% | 0% | 100,79% | 96,95% | 86,95% | 100,32% | 82,49% |
| INC. MUNDIAL | 31,11% | 0% | 101,58% | 73,38% | 25,16% | 102,36% | 39,52% |

| FVE-017 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR MURO LADRILLO CERAMICO PORTANTE 18 CM REVOCADO AMBAS CARAS + AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 100 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9 MM.

## INDICE DE TRANSMITANCIA TERMICA "K"

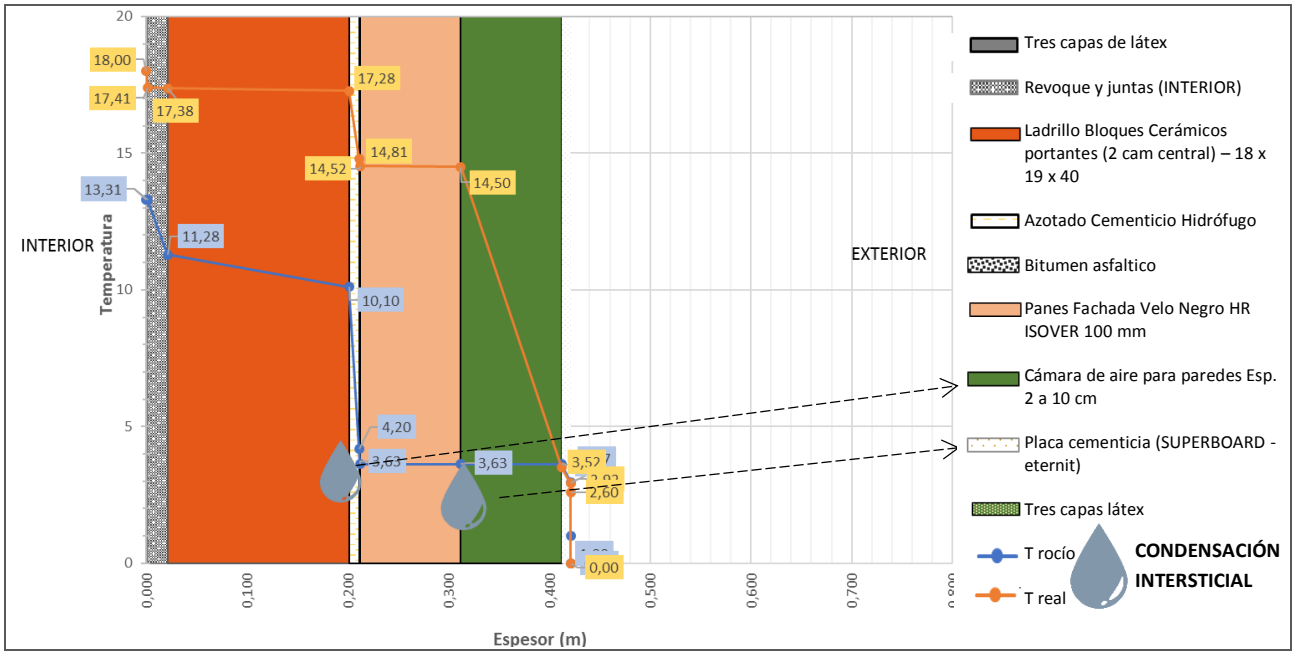
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,30 | 0,30 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,5 | 3,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,3** | **8,3** |
| | **Amortiguamiento:** | 0,047 | 0,047 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,5** | **6,7** |
| | **Amortiguamiento:** | 0,306 | 0,172 |

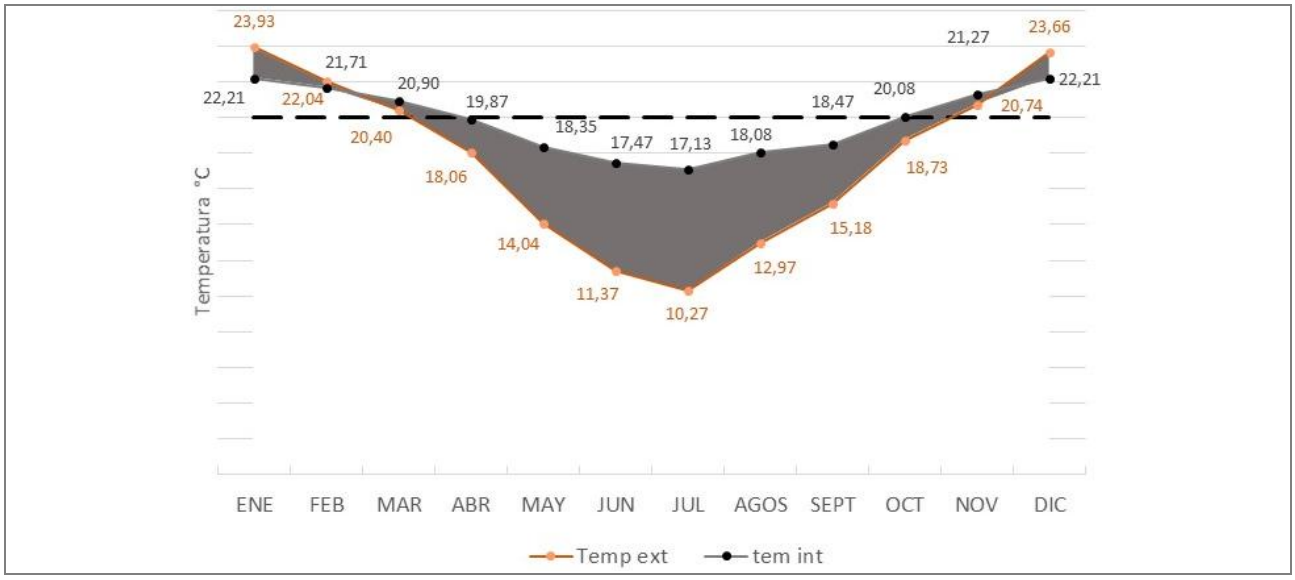
| FVE-017 | MU | FACHADA VENTILADA |
|---|---|---|

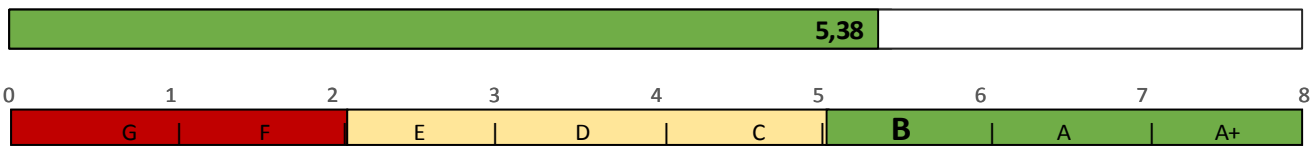
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 18:00 hs | **24,76** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 08:00 hs | **14,69** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



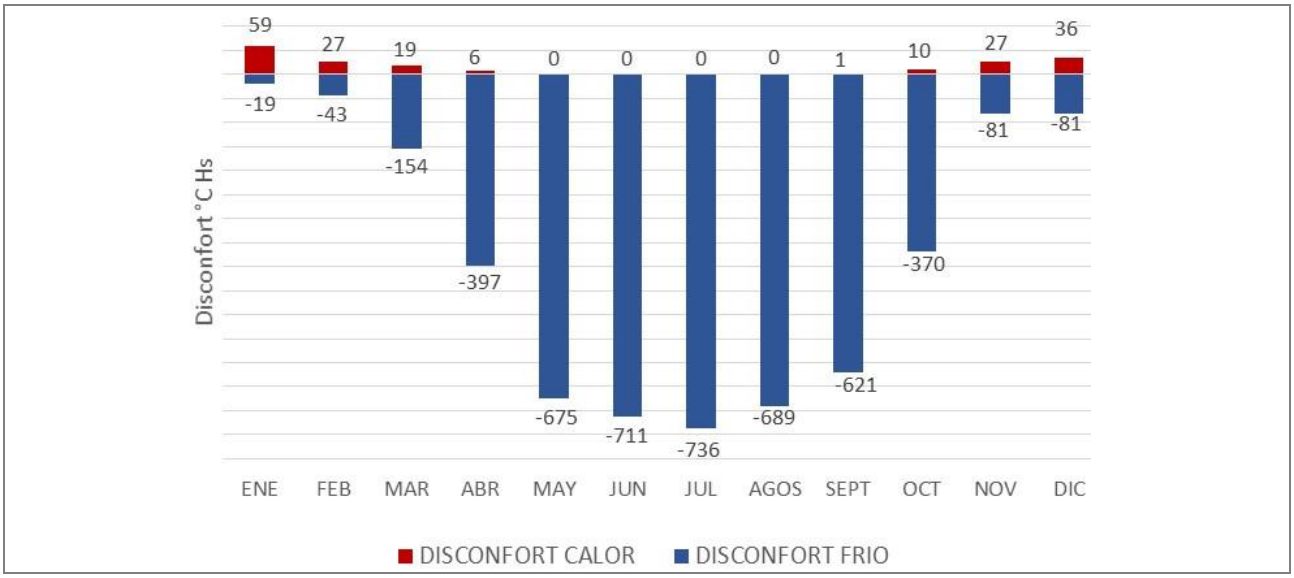




5,38 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| FVE-017 | MU | FACHADA VENTILADA |
|---|---|---|

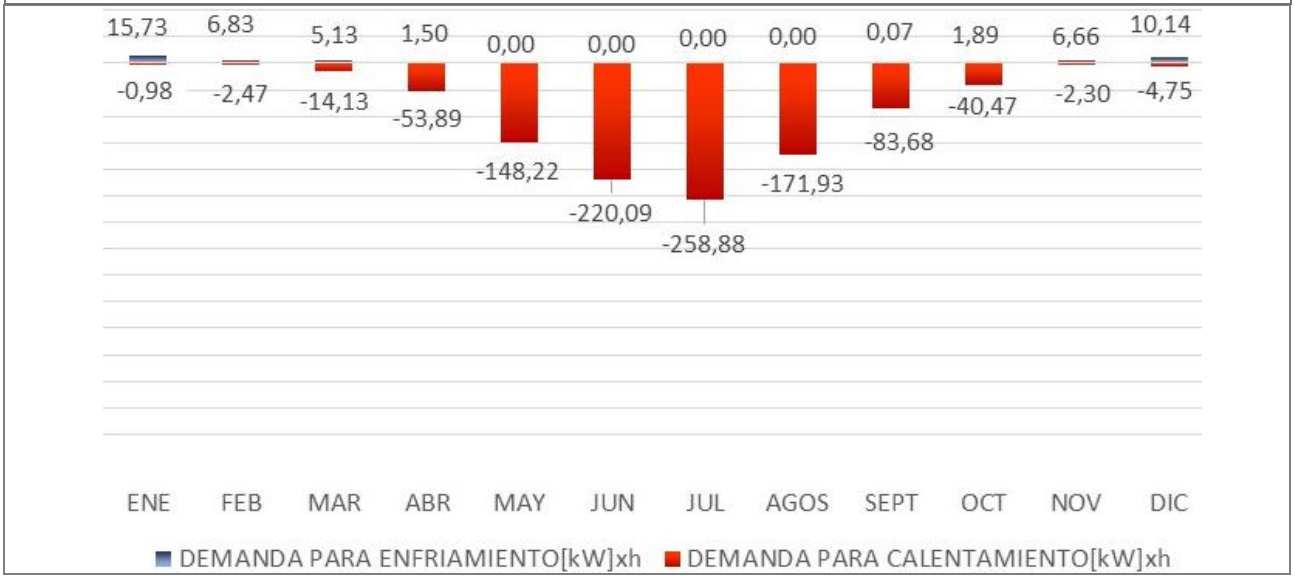
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **184** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.577** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.761** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

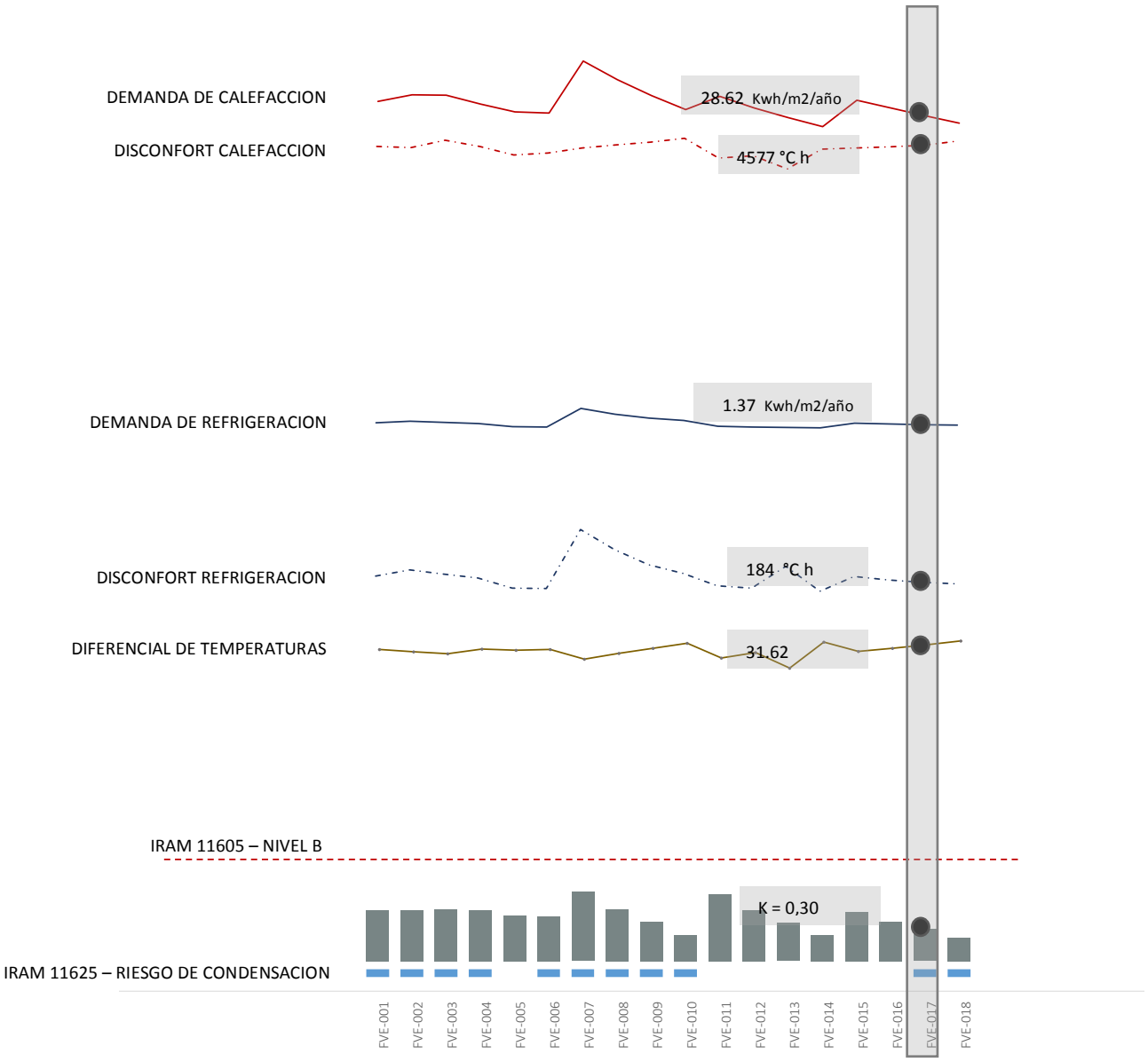



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **47,96** | kWh | 1,37 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.001,78** | kWh | 28,62 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.049,74** | kWh | **29,99** | kWh/m2/año |

| FVE-017 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 018 | N° 027 | N° 016 | N° 084 | N° 128 | N° 063 |



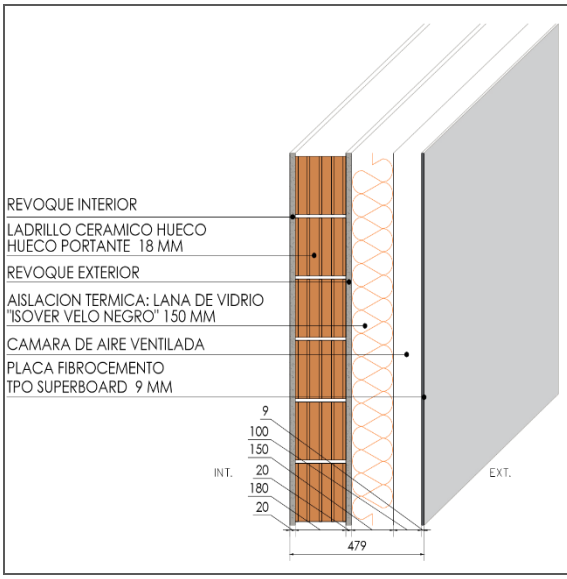

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,3 | 100% | 31,62 | 28,62 | 1,37 | 4577 | 184 |
| INC. FAMILIA | 71,81% | 164% | 101,82% | 91,94% | 78,89% | 100,54% | 75,14% |
| INC. MUNDIAL | 25,22% | 357% | 102,62% | 69,59% | 22,83% | 102,59% | 36,00% |

| FVE-018 | MU | FACHADA VENTILADA |
|---|---|---|

INTERIOR MURO LADRILLO CERAMICO PORTANTE 18 CM REVOCADO AMBAS CARAS + AISLACION DE LANA DE VIDRIO "ISOVER FACHADA VELO NEGRO" 150 MM+ CAMARA DE AIRE VENTILADA+ PLACA DE FIBROCEMENTO TIPO SUPERBOARD 9 MM.

## INDICE DE TRANSMITANCIA TERMICA "K"

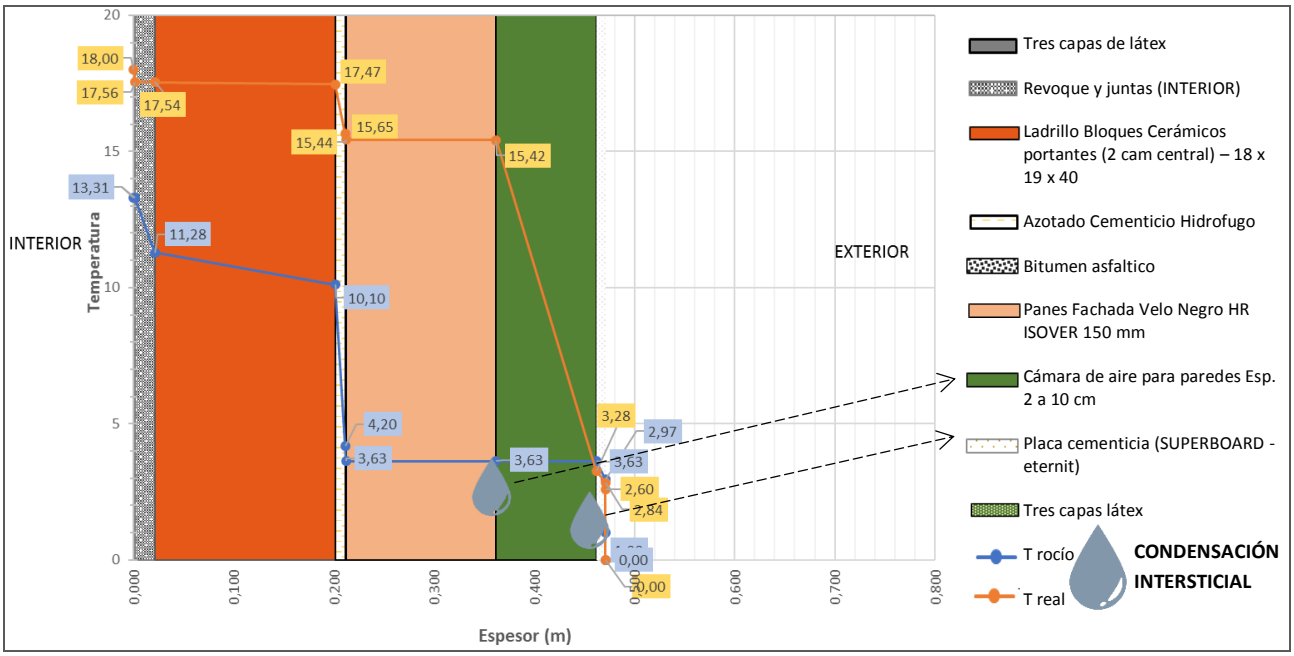
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,22 | 0,22 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 2,6 | Invierno 2,6 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **9,7** | **9,7** |
| | **Amortiguamiento:** | 0,027 | 0,027 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,2** | **7,9** |
| | **Amortiguamiento:** | 0,257 | 0,127 |

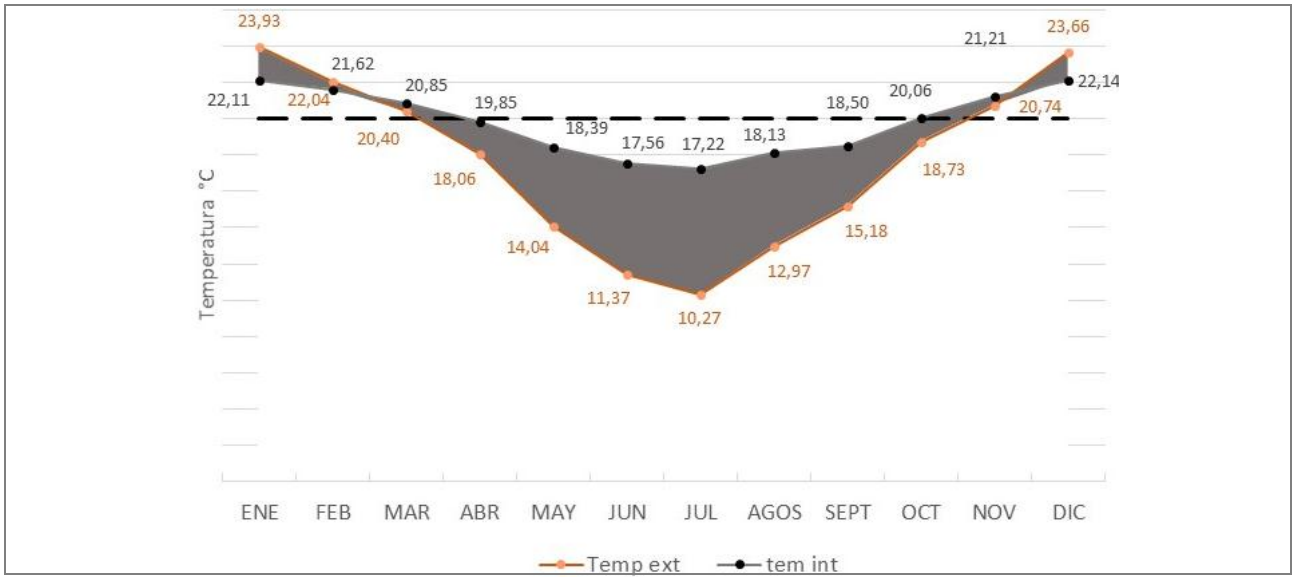
| FVE-018 | MU | FACHADA VENTILADA |
|---|---|---|

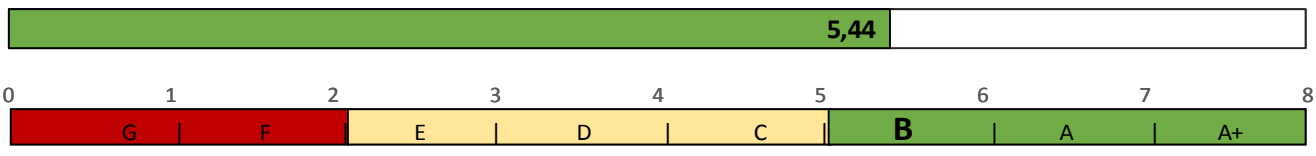
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MAX** INTERIOR SEGUN CALCULO | 15/12 18:00 hs | **24,53** | °C |
| TEMPERATURA **MIN** INTERIOR SEGUN CALCULO | 25/07 08:00 hs | **14,94** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



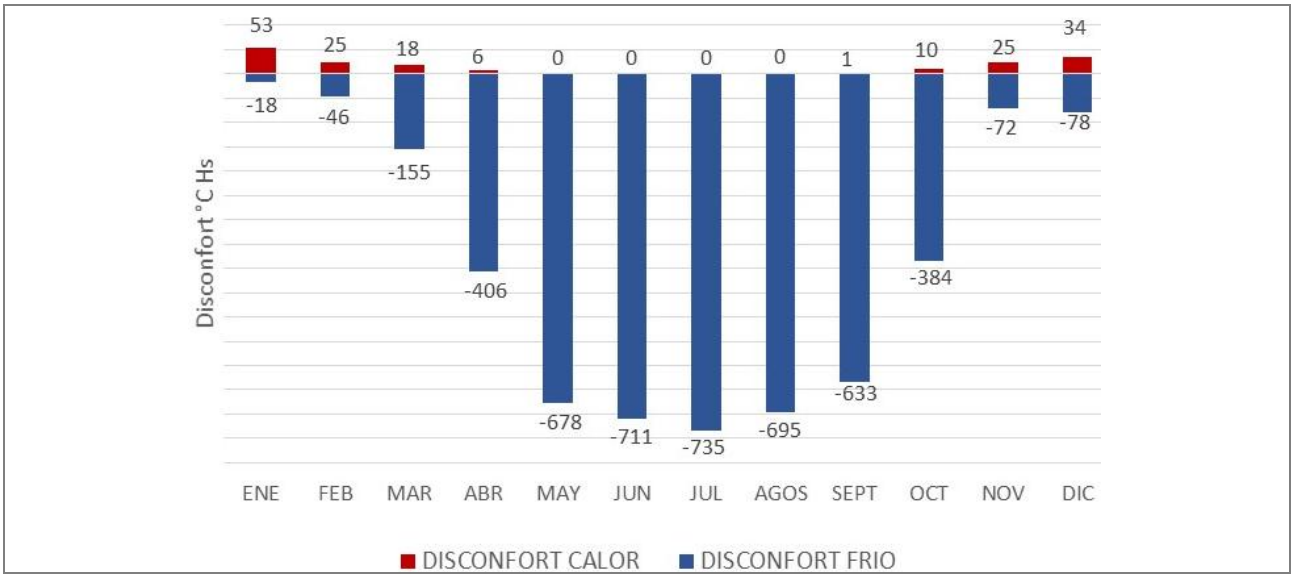




5,44 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,68

| FVE-018 | MU | FACHADA VENTILADA |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

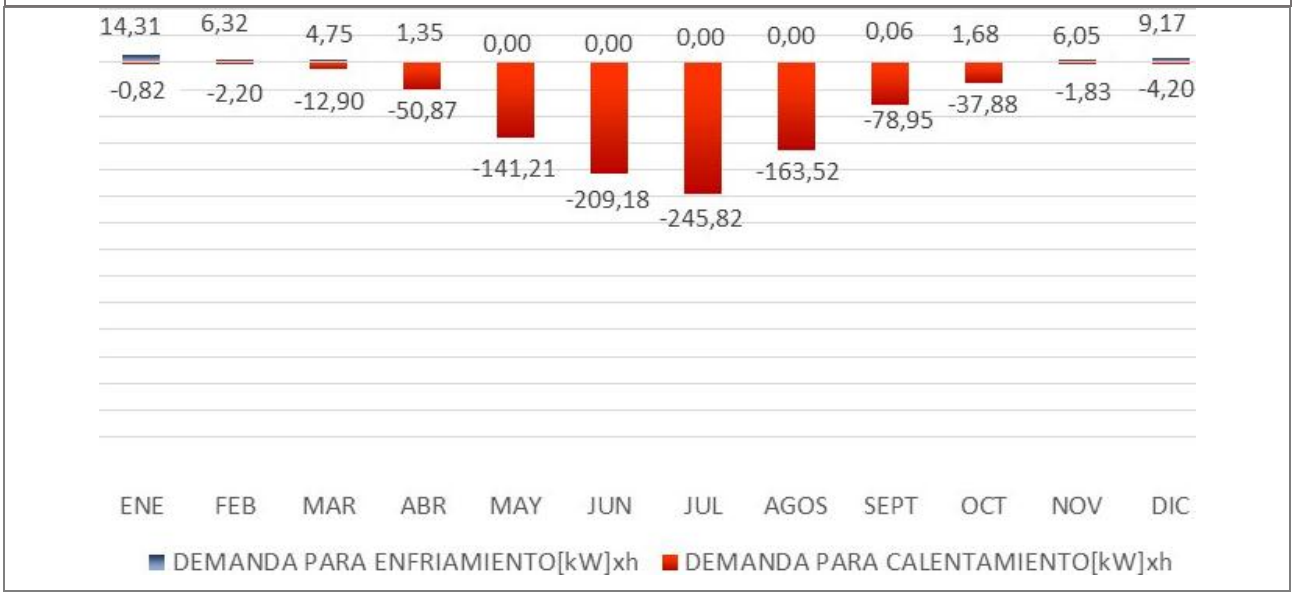
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **172** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.610** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.782** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

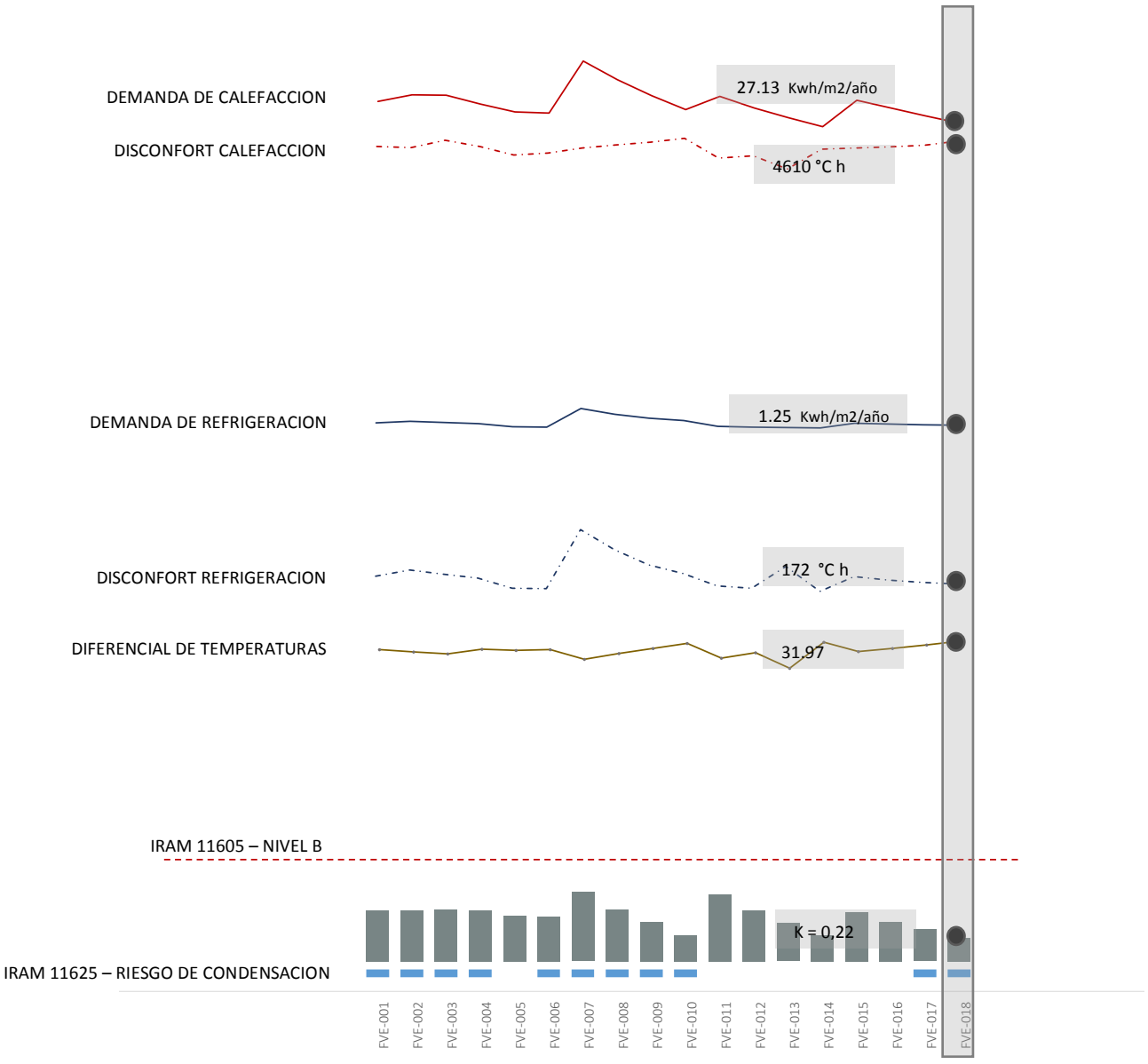



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **43,69** | kWh | 1,25 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **949,39** | kWh | 27,13 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **993,08** | kWh | **28,37** | kWh/m2/año |

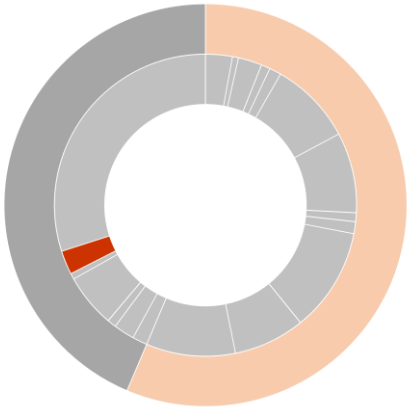
| FVE-018 | MU | FACHADA VENTILADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 003 | N° 009 | N° 004 | N° 072 | N° 170 | N° 051 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,42 | 61% | 31,06 | 31,13 | 1,74 | 4553 | 245 |
| INDIVIDUAL | 0,22 | 100% | 31,97 | 27,13 | 1,25 | 4610,00 | 172,00 |
| INC. FAMILIA | 52,66% | 164% | 102,95% | 87,15% | 71,98% | 101,26% | 70,24% |
| INC. MUNDIAL | 18,50% | 357% | 103,75% | 65,97% | 20,83% | 103,33% | 33,65% |



# METAL

**MET 001**: CUBIERTA DE CHAPA SINUSOIDAL SIN AISLACION

**MET 002**: CUBIERTA DE CHAPA SINUSOIDAL CON CAMARA DE AIRE PROMEDIO 10 CM SIN AISLACION CON CIELORRASO JUNTA TOMADA

**MET 003**: CUBIERTA DE CHAPA SINUSOIDAL CON CAMARA DE AIRE PROMEDIO 10 CM SIN AISLACION CON CIELORRASO JUNTA TOMADA.

**MET 004**: CUBIERTA DE CHAPA SINUSOIDAL CON CAMARA DE AIRE PROMEDIO 10 CM- AISLACION DE LANA DE VIDRIO 100 MM SOBRE CIELORRASO JUNTA TOMADA.

**MET 005**: CUBIERTA DE CHAPA SINUSOIDAL CON CAPA POLIURETANO PROYECTADO 7 CM.

**MET 006**: CUBIERTA DE CHAPA SINUSOIDAL CON CAPA POLIURETANO PROYECTADO 7 CM- CON CAMARA DE AIRE PROMEDIO 10 CM SIN AISLACION CON CIELORRASO JUNTA TOMADA.

**MET 007**: CUBIERTA DE CHAPA SINUSOIDAL CON CAPA POLIURETANO PROYECTADO 7 CM- CON CAMARA DE AIRE PROMEDIO 10 CM- AISLACION DE LANA DE VIDRIO 50 MM SOBRE CIELORRASO JUNTA TOMADA.

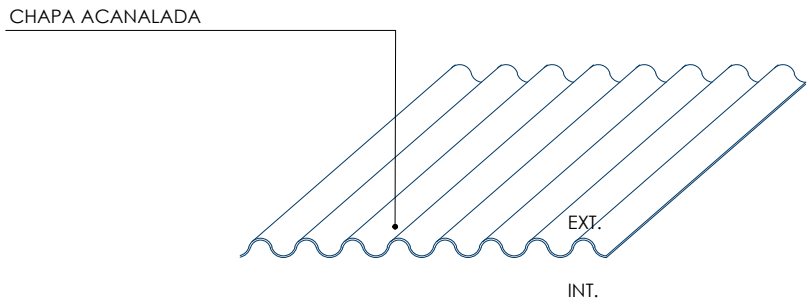
**MET 008**: CUBIERTA DE CHAPA SINUSOIDAL CON CAPA POLIURETANO PROYECTADO 7 CM-CON CAMARA DE AIRE PROMEDIO 10 CM- AISLACION DE LANA DE VIDRIO 100 MM SOBRE CIELORRASO JUNTA TOMADA.

| MET-001 | CU | METALES |
|---|---|---|

CUBIERTA DE CHAPA SINUSOIDAL SIN AISLACION

## INDICE DE TRANSMITANCIA TERMICA "K"

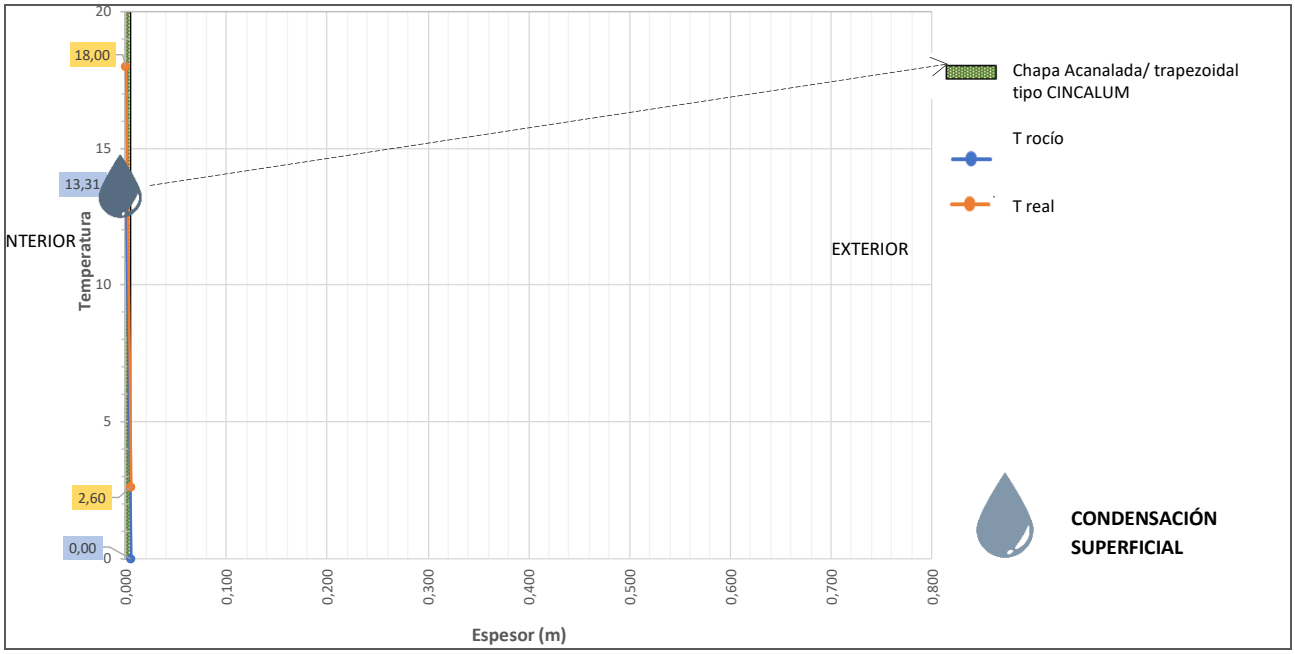
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 4,76 | 7,14 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



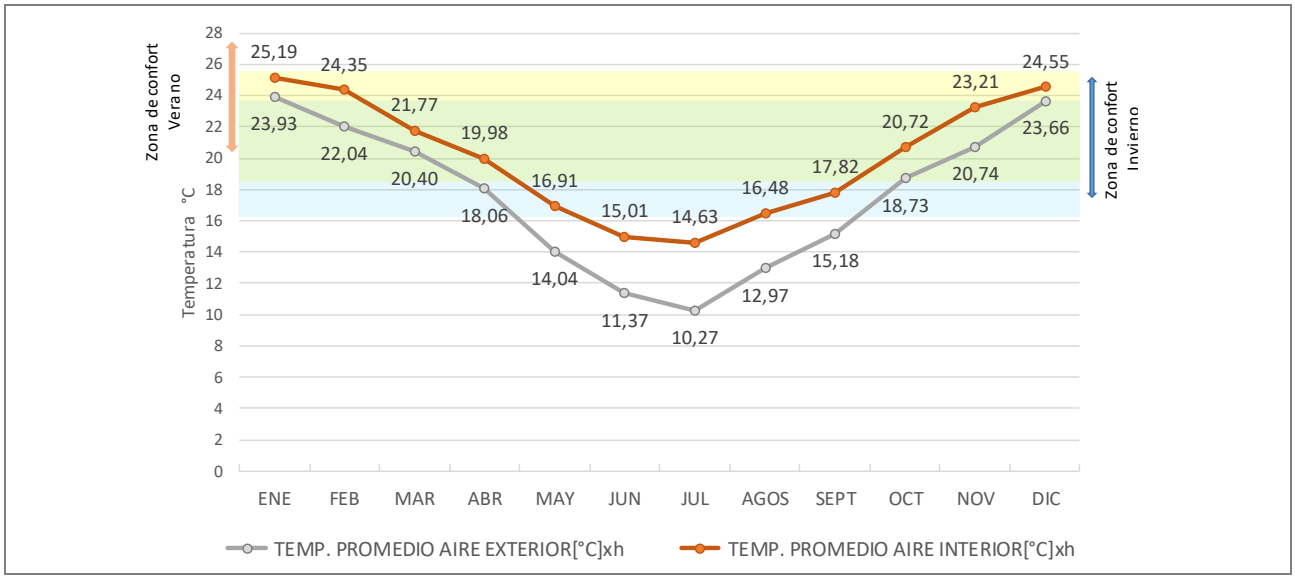

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | | |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | | **0,5** |
| | **Amortiguamiento:** | 0,995 | 0,868 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **1,1** | **0,5** |
| | **Amortiguamiento:** | 0,748 | 0,868 |

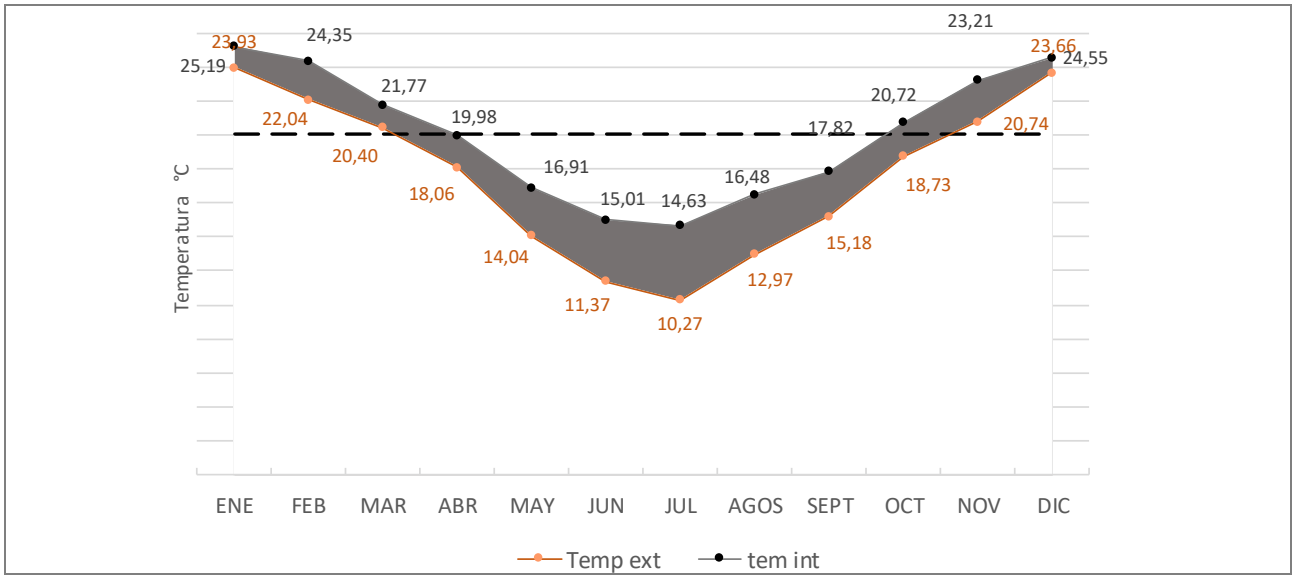
| MET-001 | CU | METALES |
|---|---|---|

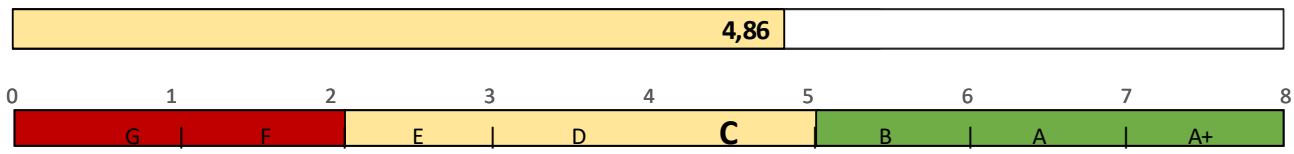
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 13/12 15:00 hs | **36,91** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 2/07 08:00 hs | **7,09** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



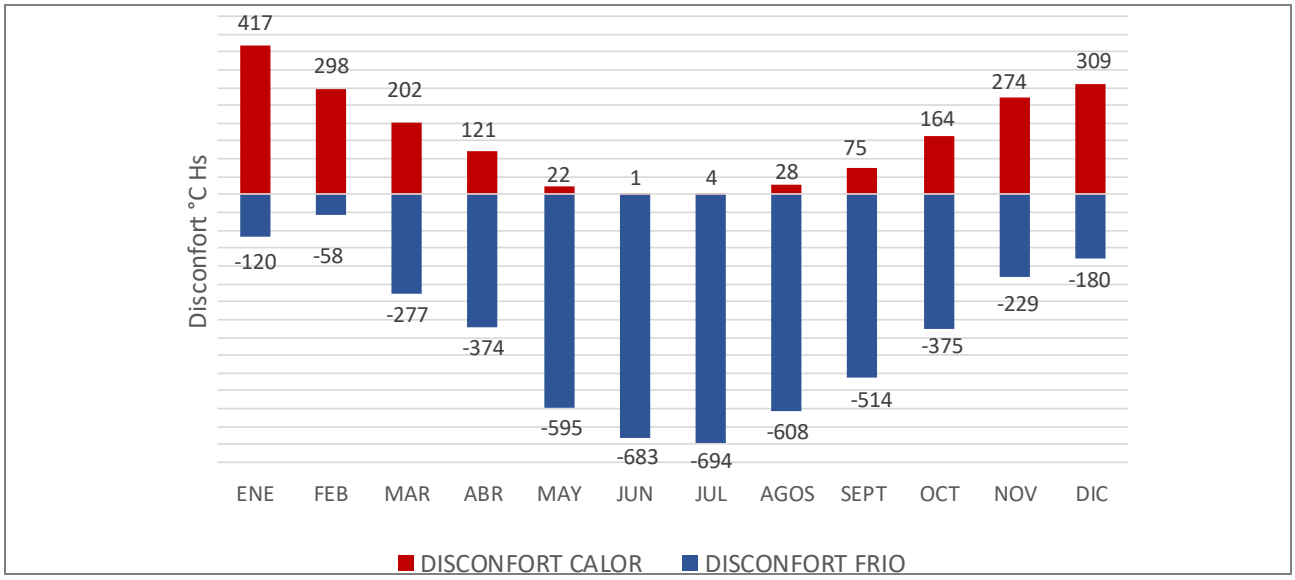




4,86 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,61

| MET-001 | CU | METALES |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

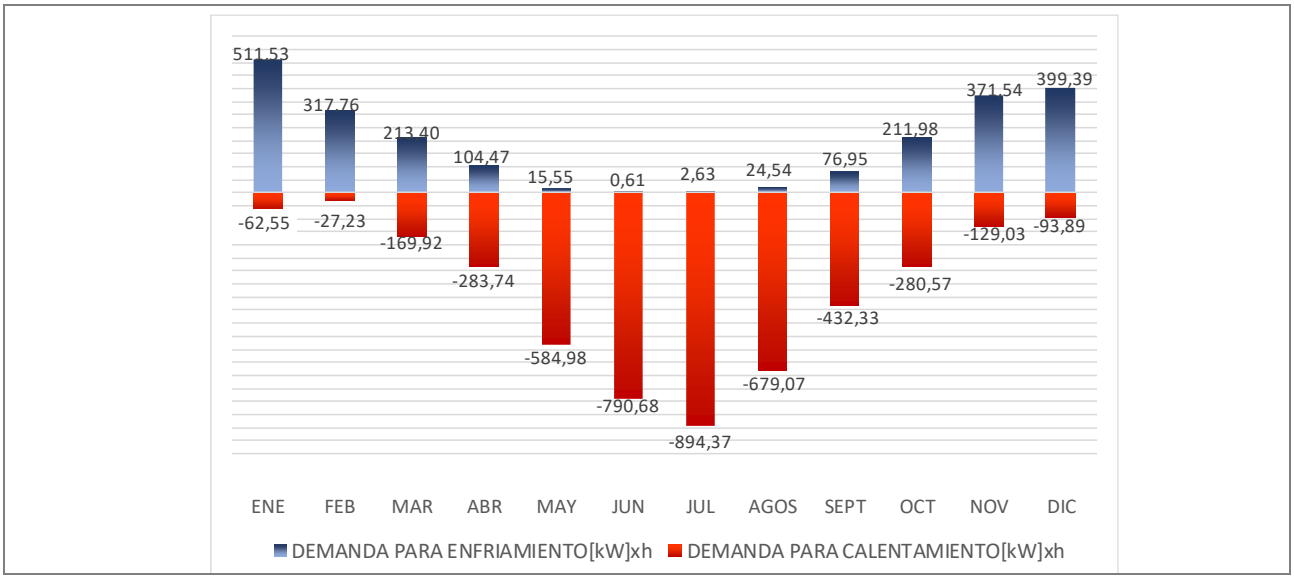
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.914** | °C Hs | 22% |
| HORAS DE DISCONFORT POR FRÍO | **4.707** | °C Hs | 54% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **6.621** | **°C Hs** | **76%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

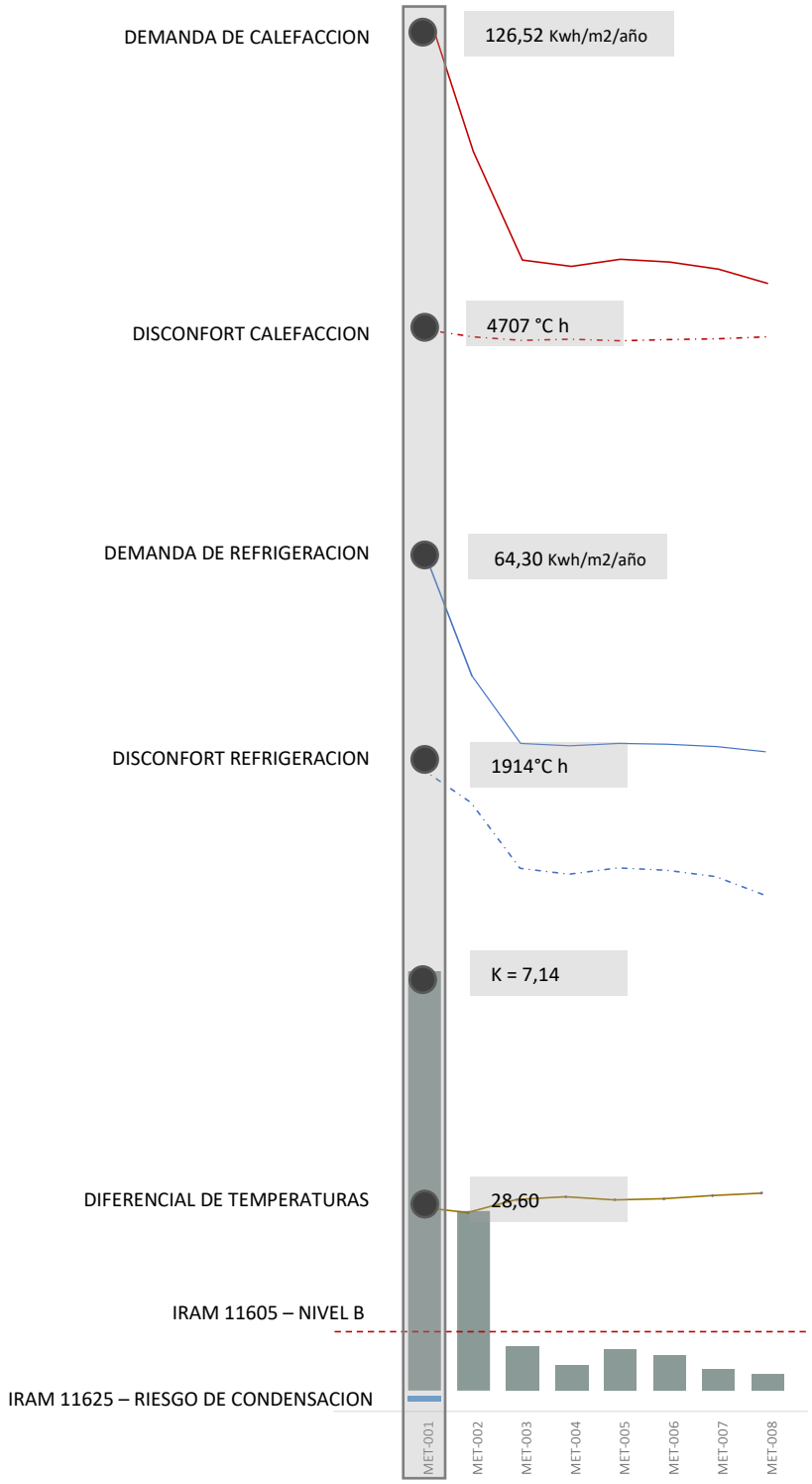



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **2.250,35** | kWh | 64,30 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **4.428,36** | kWh | 126,52 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **6.678,71** | kWh | **190,82** | kWh/m2/año |

| MET-001 | CU | METALES |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 118 | N° 108 | N° 118 | N° 118 | N° 117 | N° 118 |



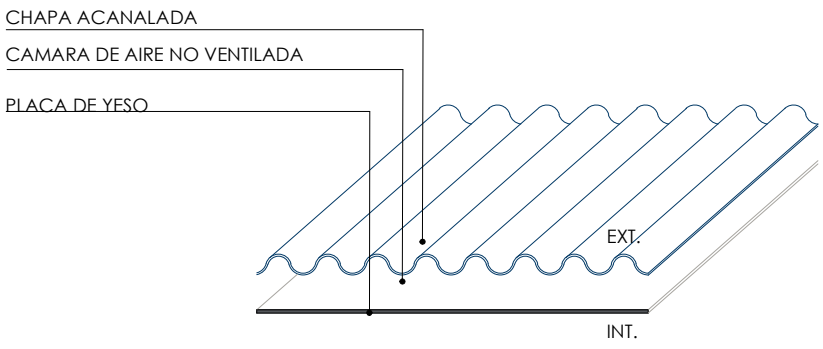

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,54 | 13% | 29,55 | 58,63 | 13,42 | 4607 | 873 |
| INDIVIDUAL | 7,14 | 100% | 28,60 | 126,52 | 64,3 | 4707 | 1914 |
| INC. FAMILIA | 464,01% | 0% | 96,79% | 215,80% | 479,31% | 102,18% | 219,37% |
| INC. MUNDIAL | 881,48% | 208% | 96,30% | 284,45% | 1563,24% | 103,20% | 303,01% |

| MET-002 | CU | METALES |
|---|---|---|

CUBIERTA DE CHAPA SINUSOIDAL CON CAMARA DE AIRE PROMEDIO 10 CM SIN AISLACION CON CIELORRASO JUNTA TOMADA

## INDICE DE TRANSMITANCIA TERMICA "K"

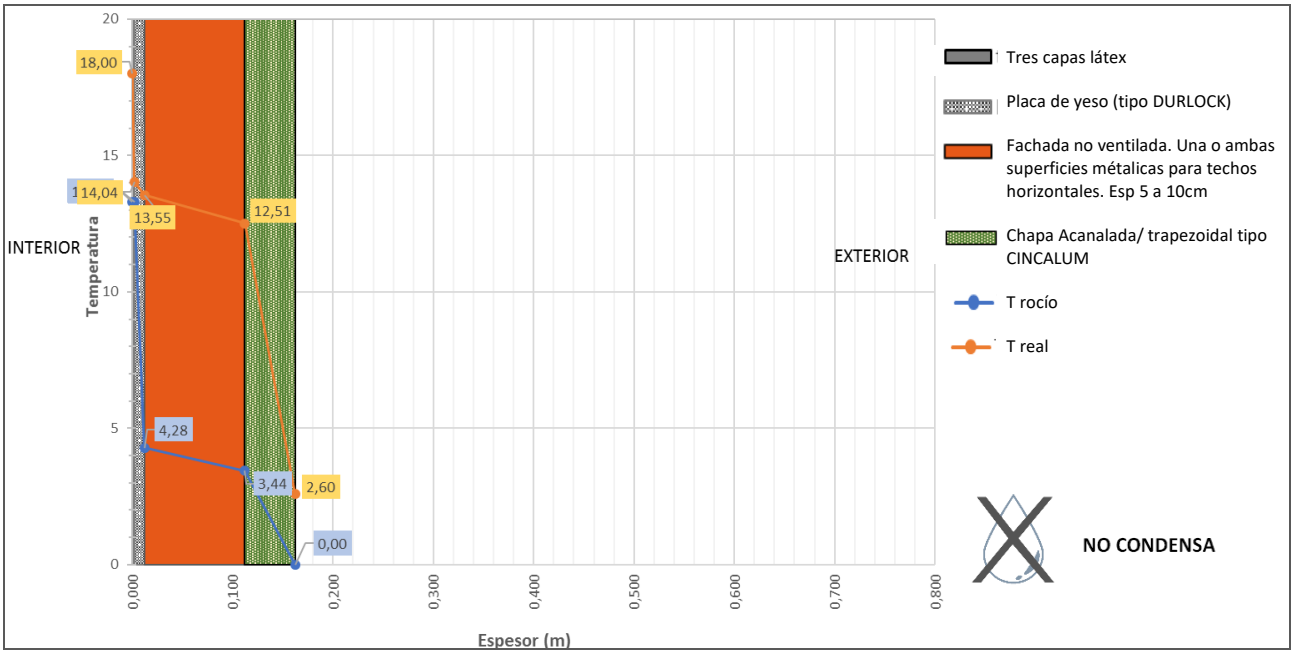
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 2,18 | 2,57 |
|---|---|
| NO verifica verano | NO verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



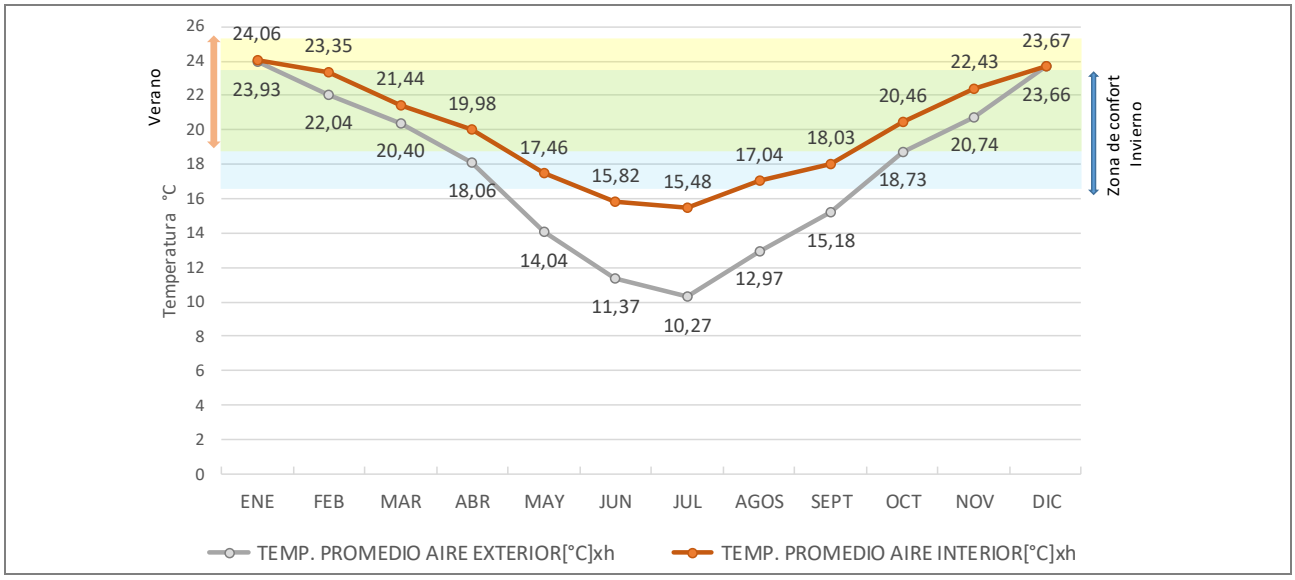

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 177,5 | 5065,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,6** | **24,5** |
| | **Amortiguamiento:** | 0,183 | 0,002 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,6** | **2,0** |
| | **Amortiguamiento:** | 0,231 | 0,591 |

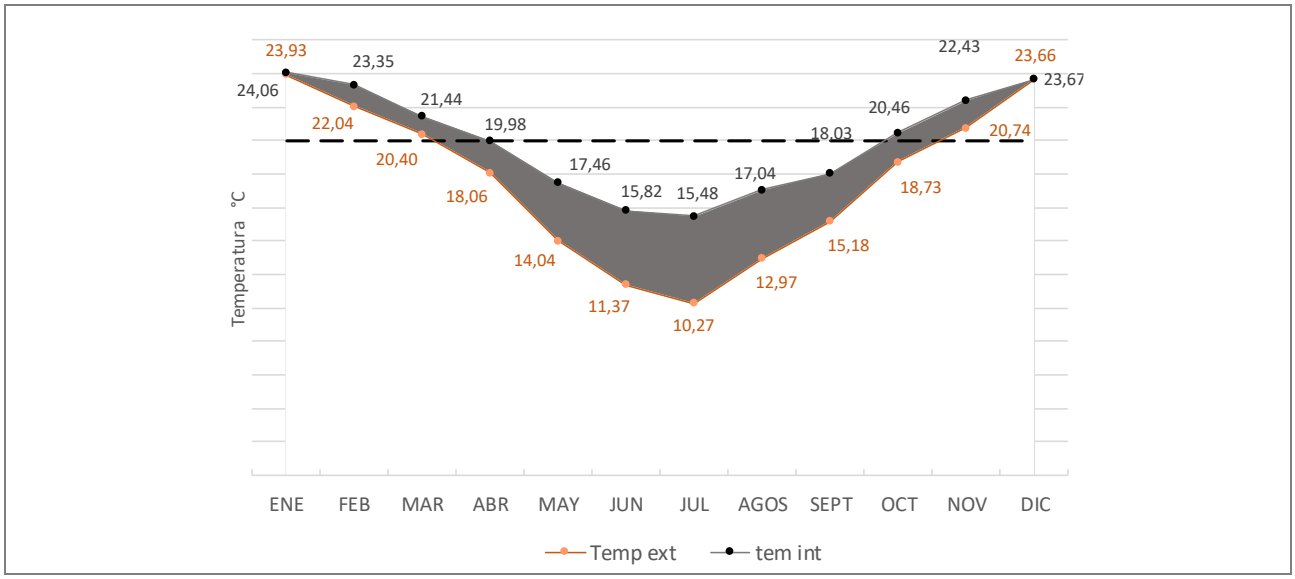
| MET-002 | CU | METALES |
|---|---|---|

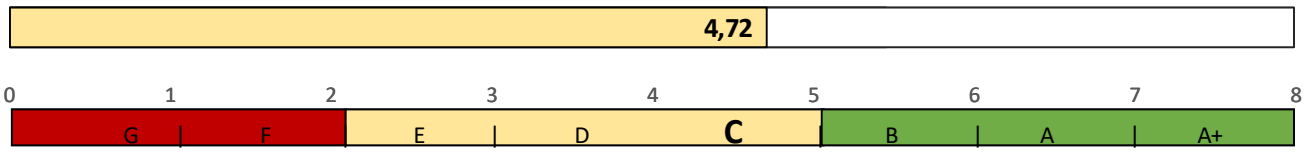
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 04/01 16:00 hs | **31,48** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 08:00 hs | **9,59** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



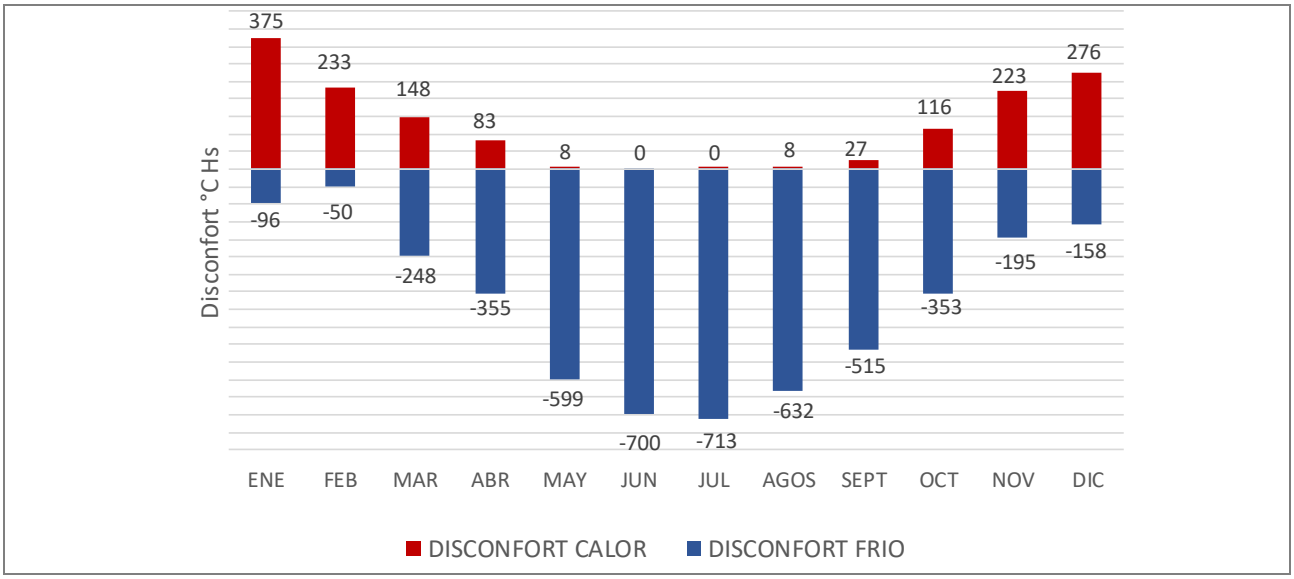




4,72 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,59

| MET-002 | CU | METALES |
|---|---|---|

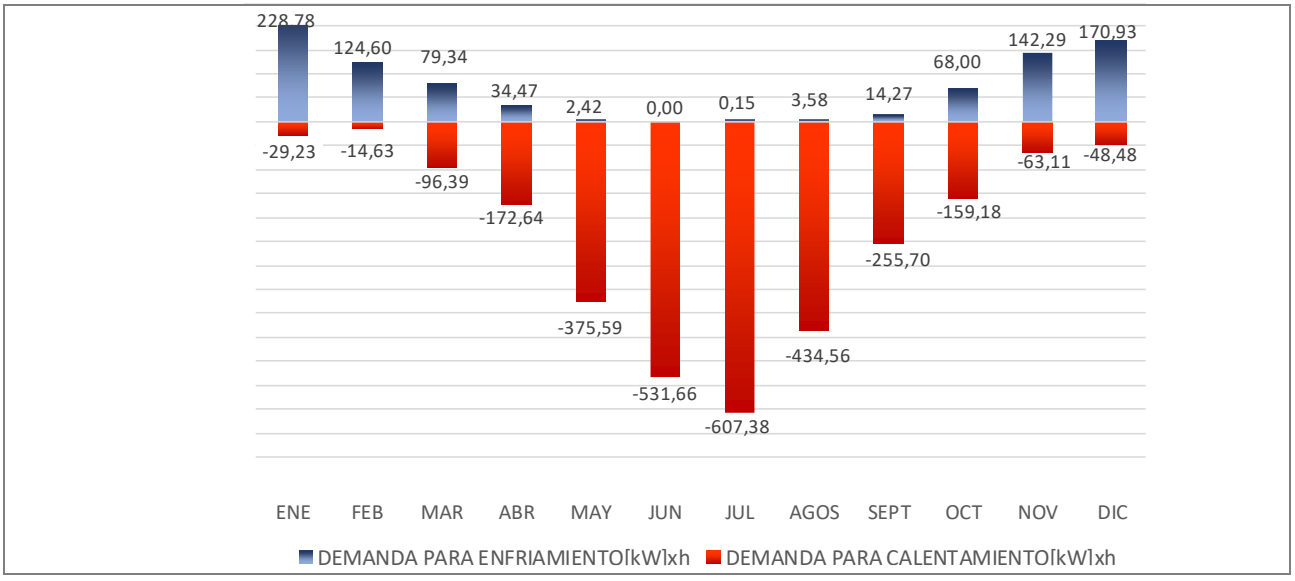
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **1.498** | °C Hs | 17% |
| HORAS DE DISCONFORT POR FRÍO | **4.615** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **6.113** | **°C Hs** | **70%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

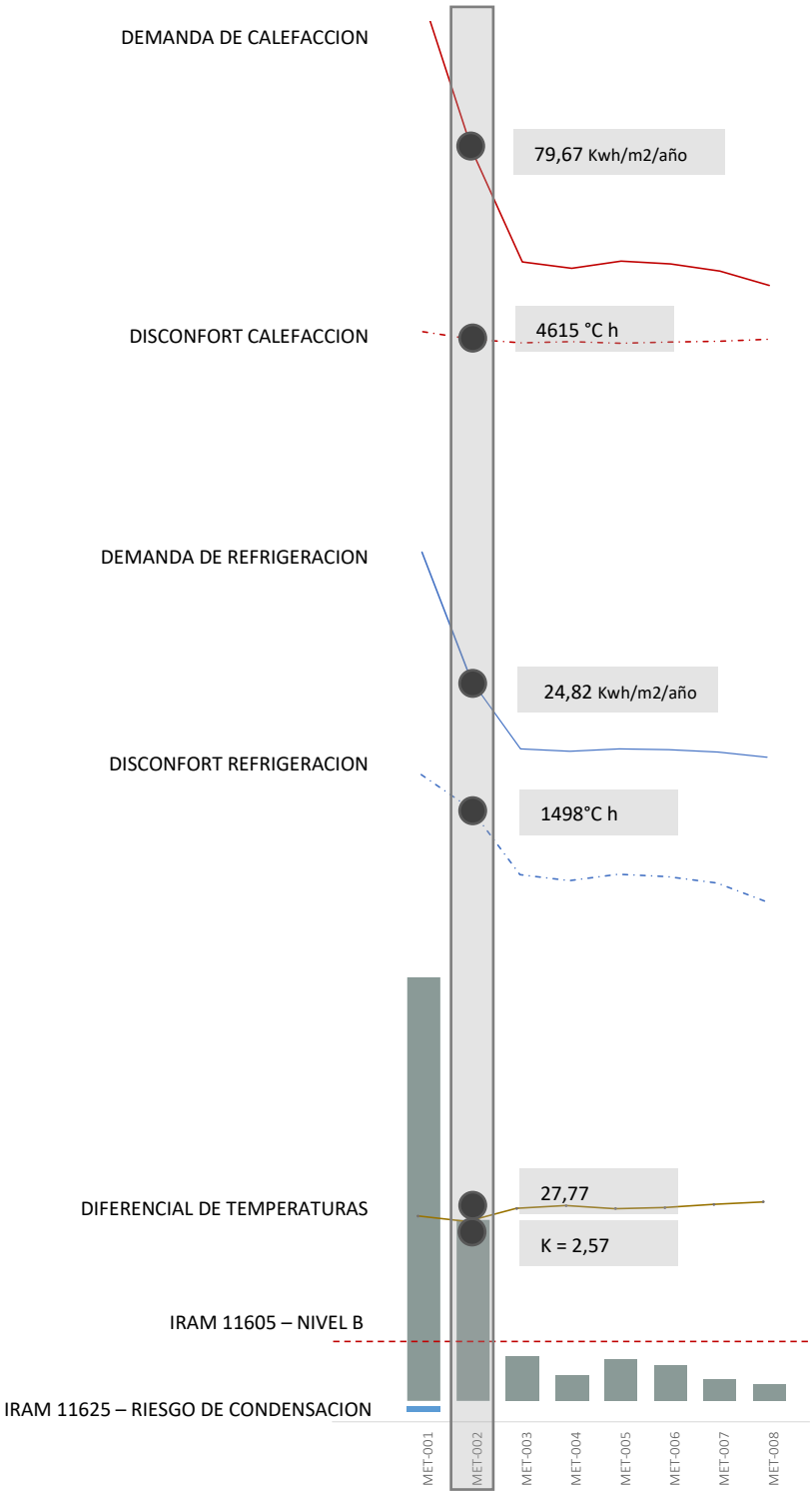



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **868,82** | kWh | 24,82 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **2.788,55** | kWh | 79,67 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **3.657,37** | kWh | **104,50** | kWh/m2/año |

| MET-002 | CU | METALES |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 115 | N° 116 | N° 116 | N° 116 | N° 114 | N° 115 |



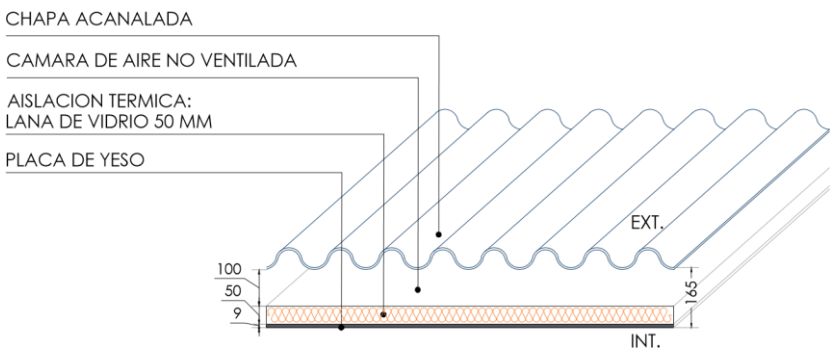

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,54 | 13% | 29,55 | 58,63 | 13,42 | 4607 | 873 |
| INDIVIDUAL | 2,57 | 0% | 27,77 | 79,67 | 24,82 | 4615 | 1498 |
| INC. FAMILIA | 167,02% | 0% | 93,98% | 135,89% | 185,02% | 100,18% | 171,69% |
| INC. MUNDIAL | 317,28% | 0% | 93,50% | 179,12% | 603,41% | 101,19% | 237,15% |

| MET-003 | CU | METALES |
|---|---|---|

CUBIERTA DE CHAPA SINUSOIDAL CON CAMARA DE AIRE PROMEDIO 10 CM SIN AISLACION CON CIELORRASO JUNTA TOMADA.

## INDICE DE TRANSMITANCIA TERMICA "K"

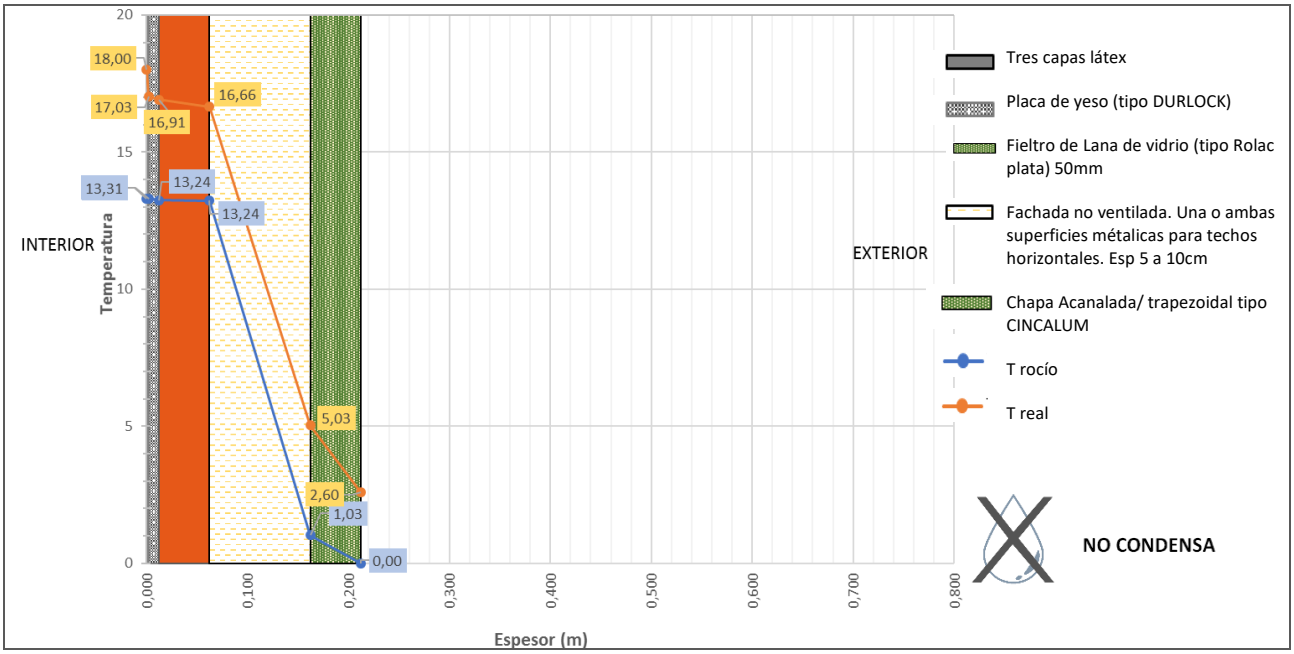
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,60 | 0,63 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



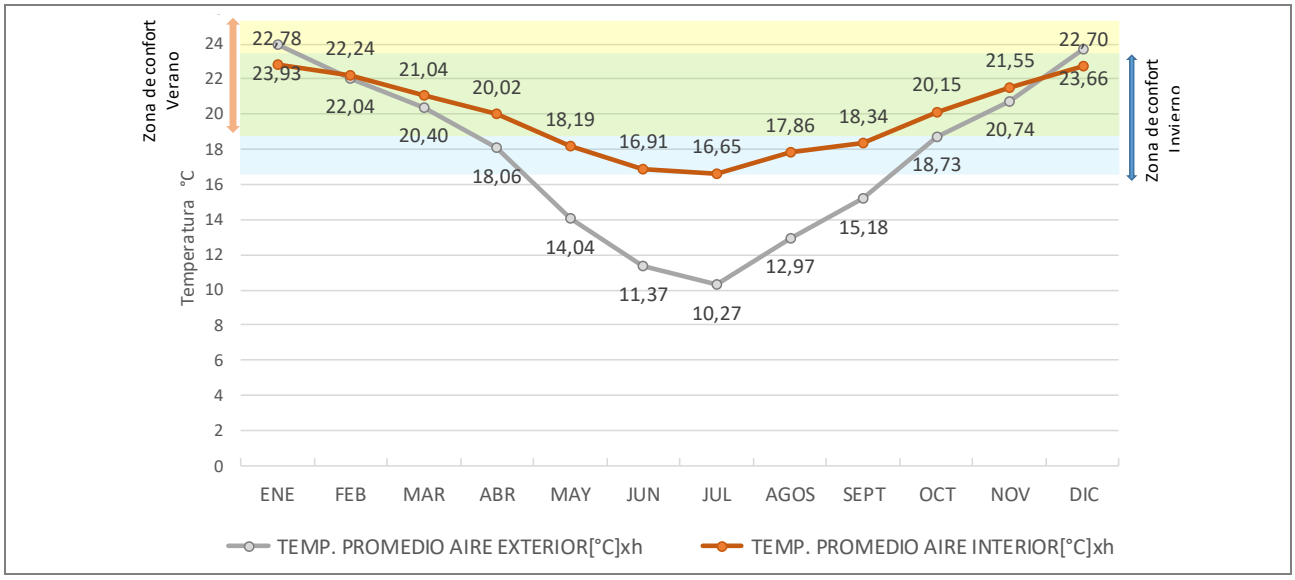

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 30,5 | 1,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,1** | **2,6** |
| | **Amortiguamiento:** | 0,017 | 0,382 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,9** | **3,0** |
| | **Amortiguamiento:** | 0,058 | 0,453 |

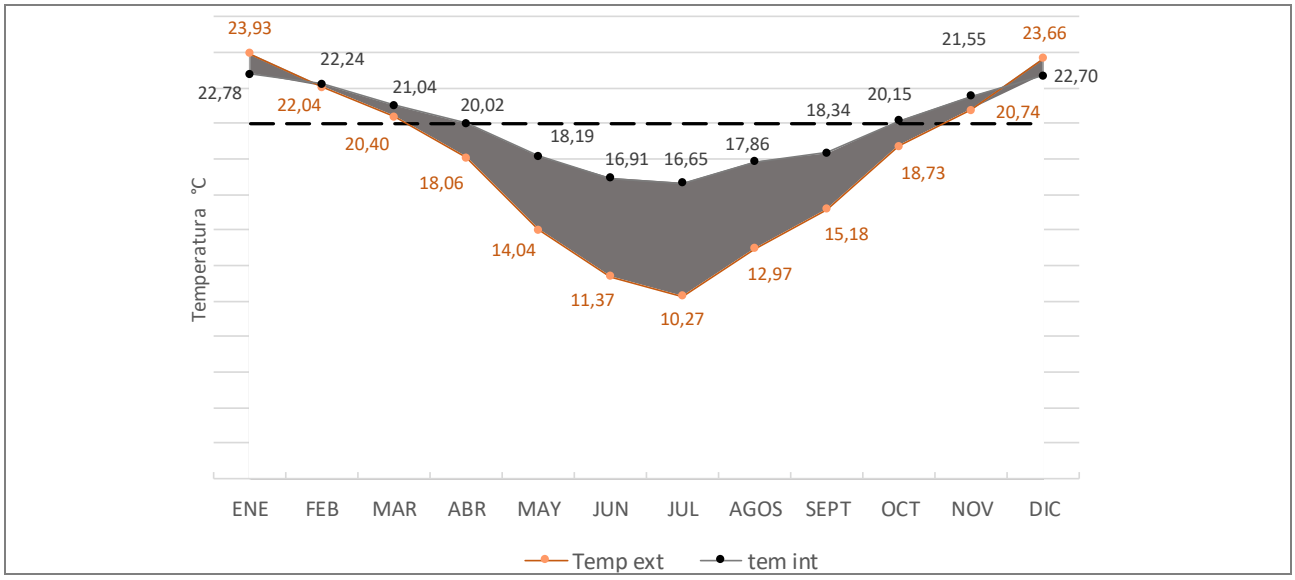
| MET-003 | CU | METALES |
|---|---|---|

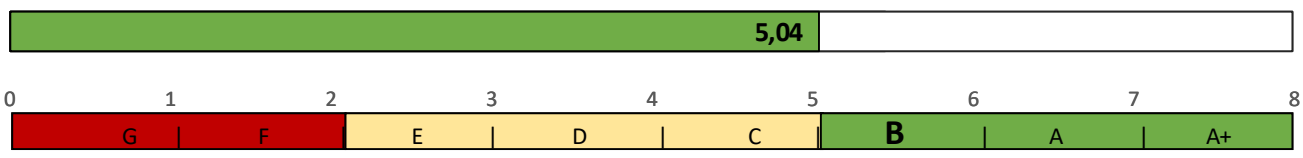
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,74** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **12,69** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



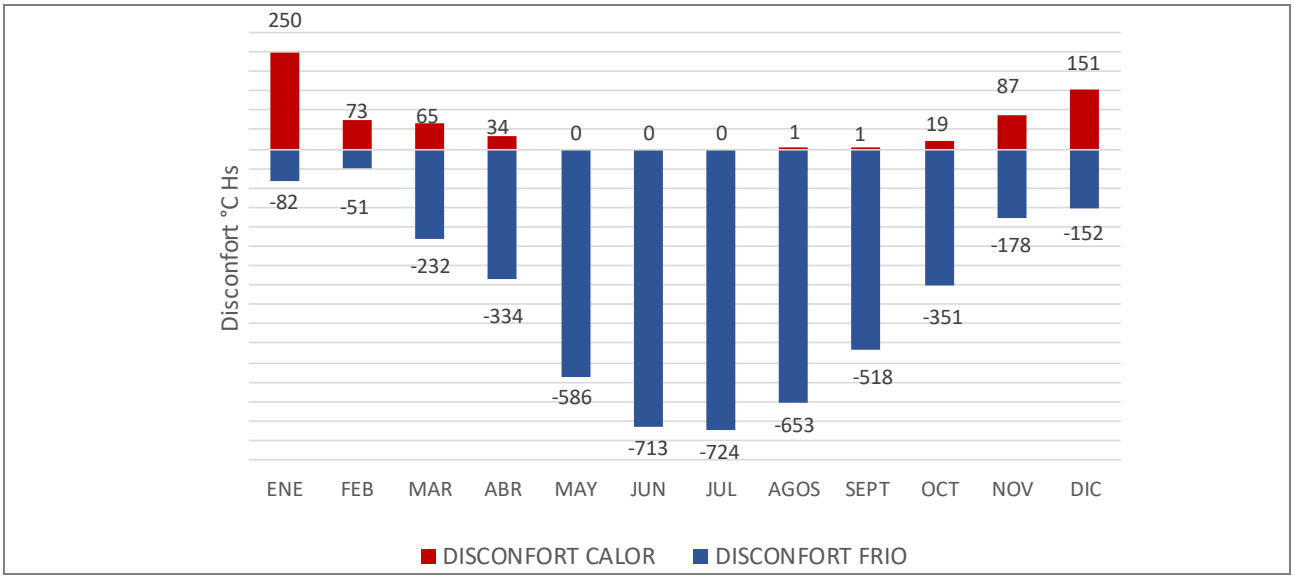




5,04 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| MET-003 | CU | METALES |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

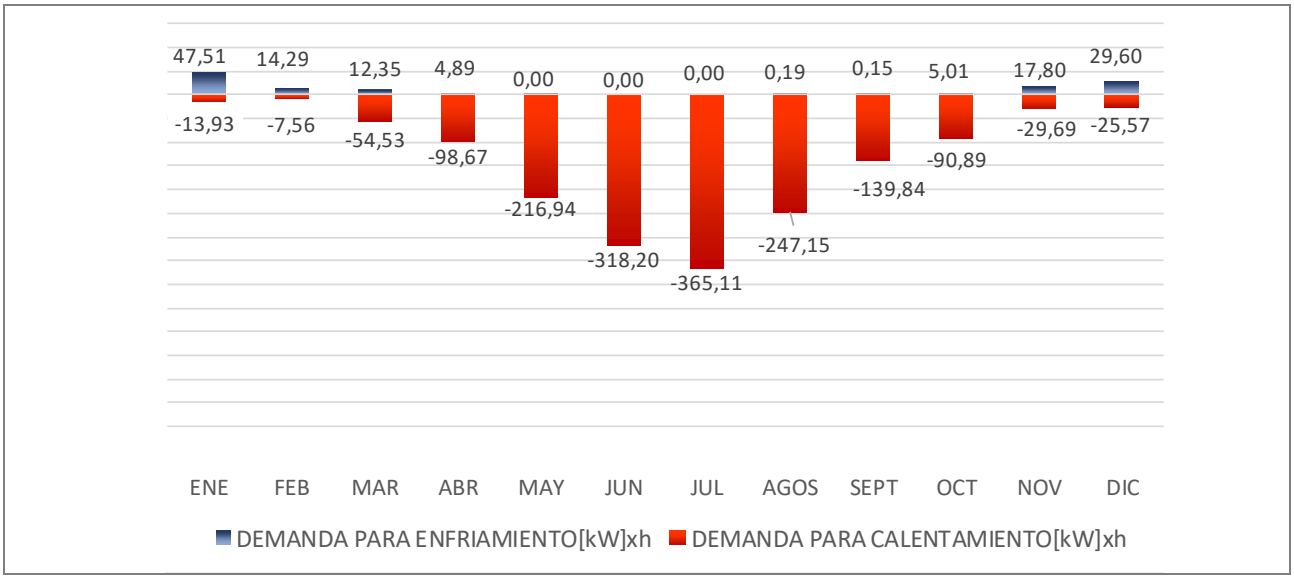
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **682** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.575** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.257** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

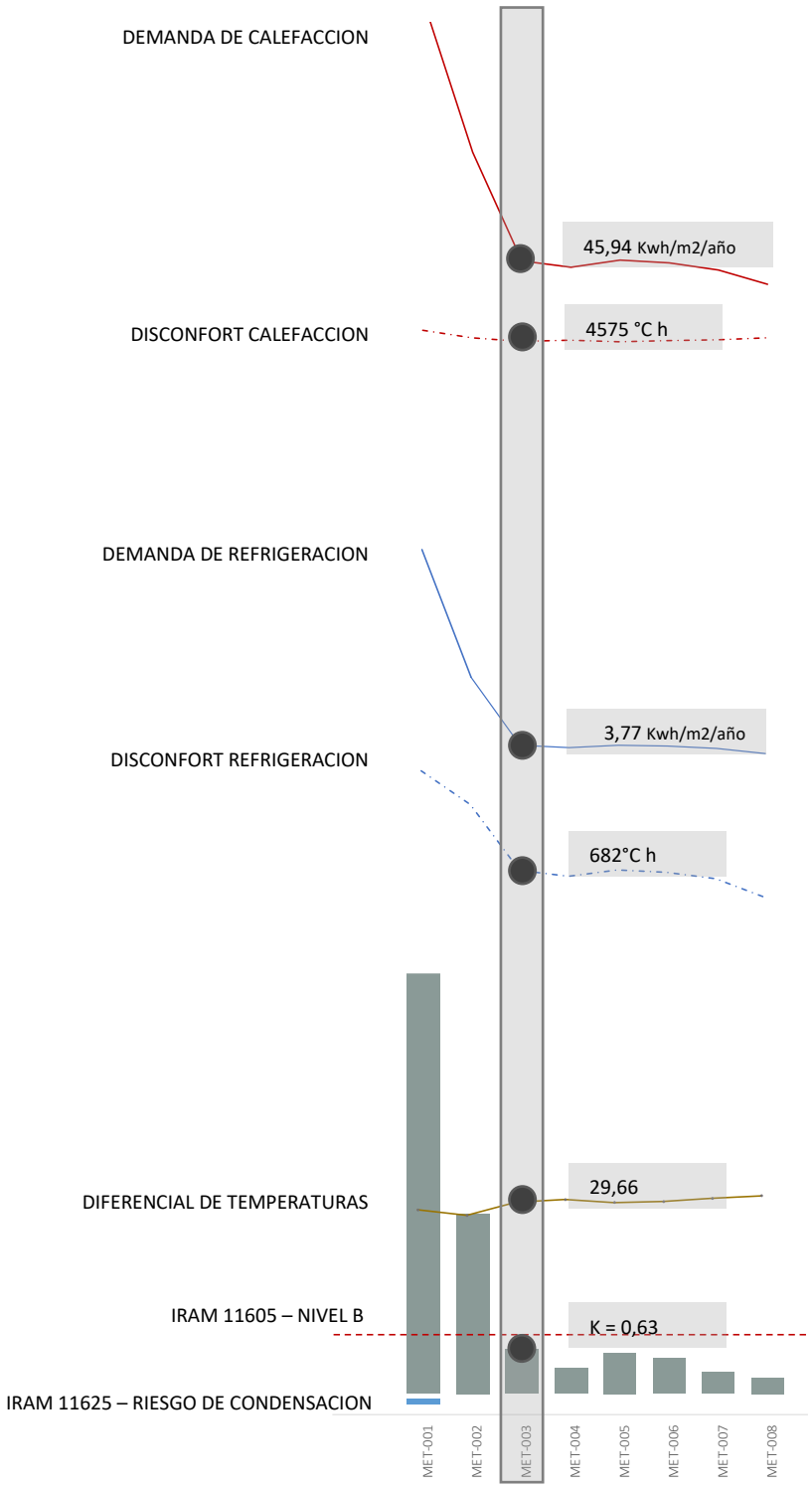
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **131,80** | kWh | 3,77 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.608,07** | kWh | 45,94 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.739,87** | kWh | **49,71** | kWh/m2/año |

| MET-003 | CU | METALES |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS



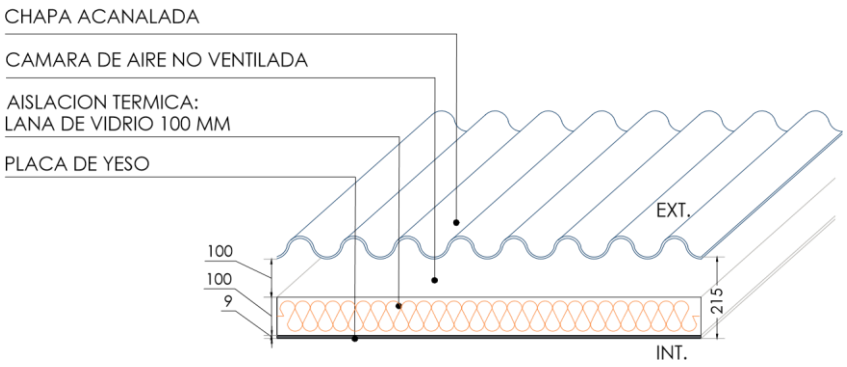

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,54 | 13% | 29,55 | 58,63 | 13,42 | 4607 | 873 |
| INDIVIDUAL | 0,63 | 0% | 29,66 | 45,94 | 3,77 | 4575 | 682 |
| INC. FAMILIA | 40,94% | 0% | 100,38% | 78,36% | 28,10% | 99,31% | 78,17% |
| INC. MUNDIAL | 77,78% | 0% | 99,87% | 103,29% | 91,65% | 100,31% | 107,97% |

| MET-004 | CU | METALES |
|---|---|---|

CUBIERTA DE CHAPA SINUSOIDAL CON CAMARA DE AIRE PROMEDIO 10 CM- AISLACION DE LANA DE VIDRIO 100 MM SOBRE CIELORRASO JUNTA TOMADA.

## INDICE DE TRANSMITANCIA TERMICA "K"

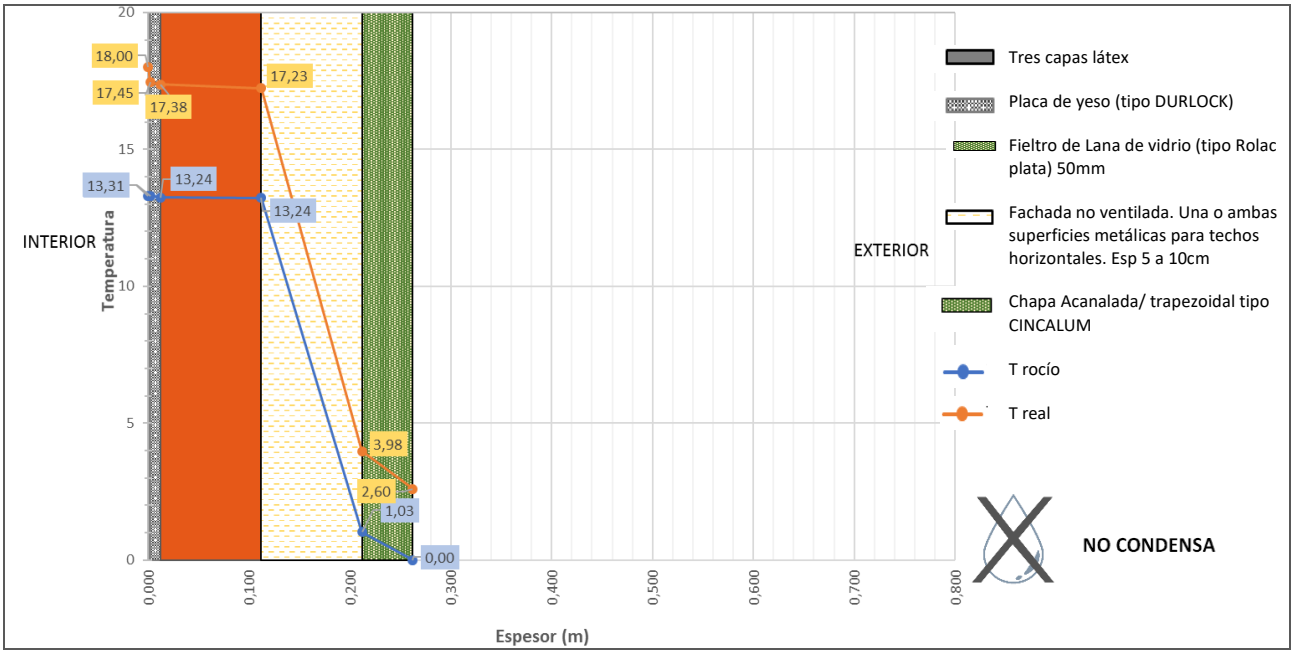
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,35 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



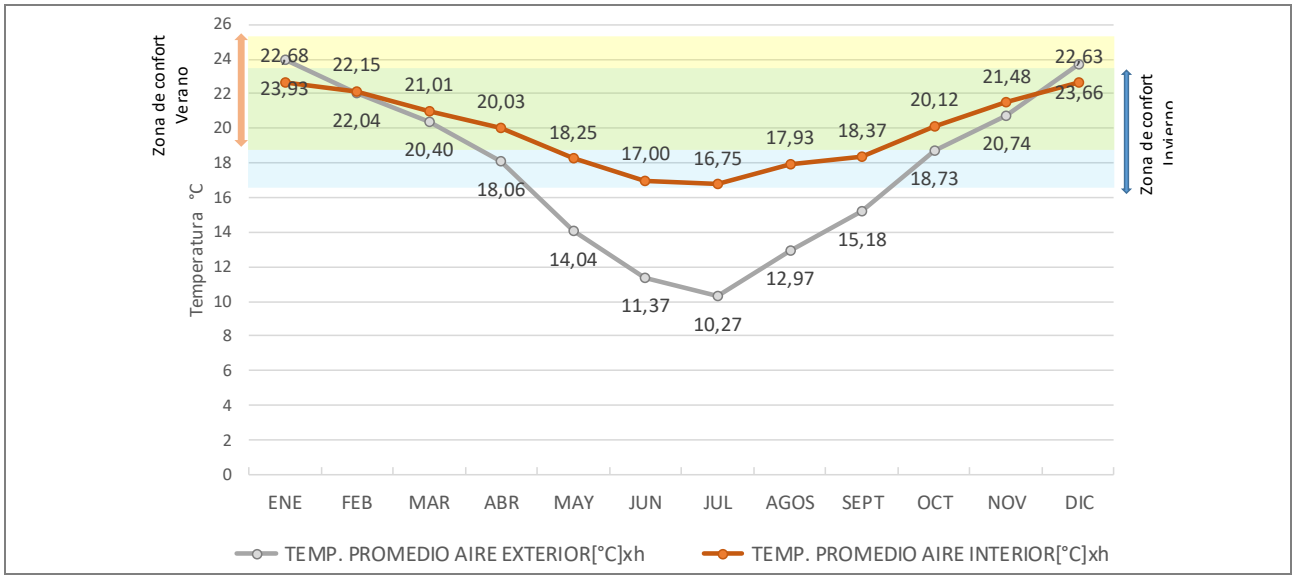

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 16,7 | 0,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **15,0** | **3,5** |
| | **Amortiguamiento:** | 0,004 | 0,272 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **14,3** | **3,8** |
| | **Amortiguamiento:** | 0,023 | 0,373 |

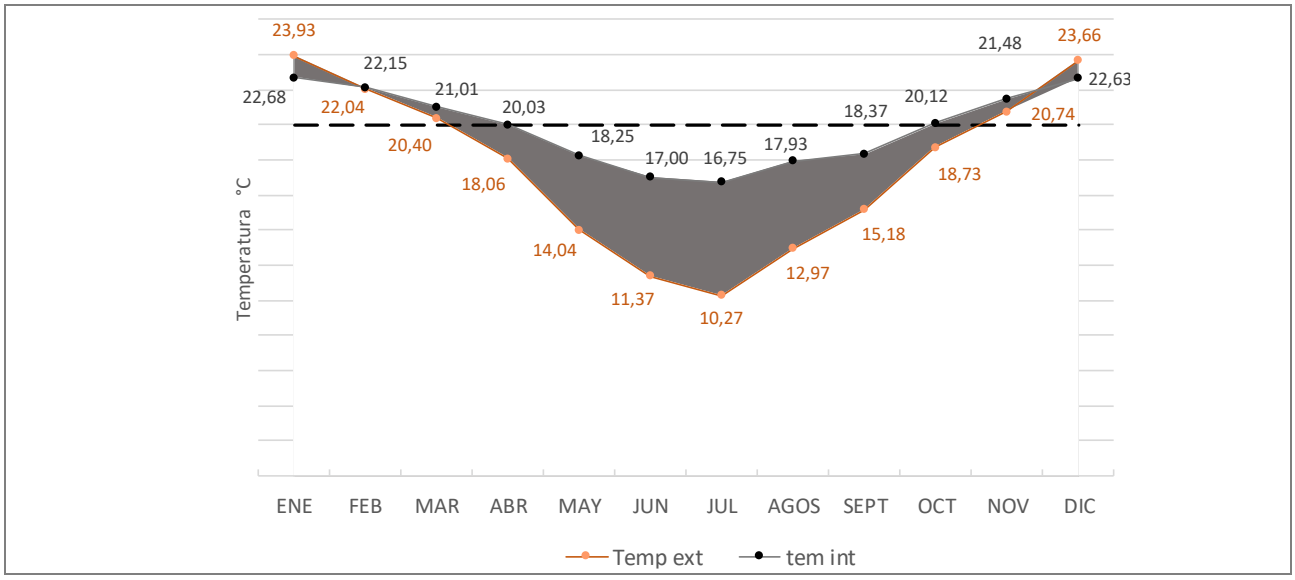
| MET-004 | CU | METALES |
|---|---|---|

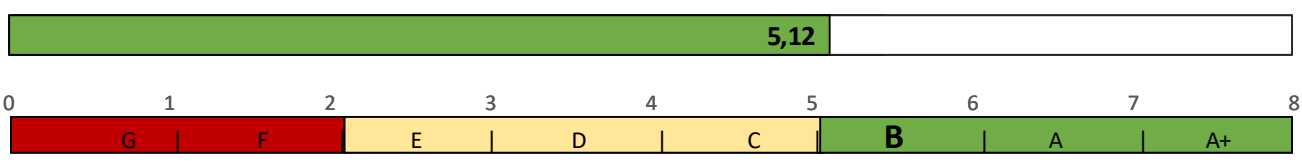
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,47** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **12,94** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



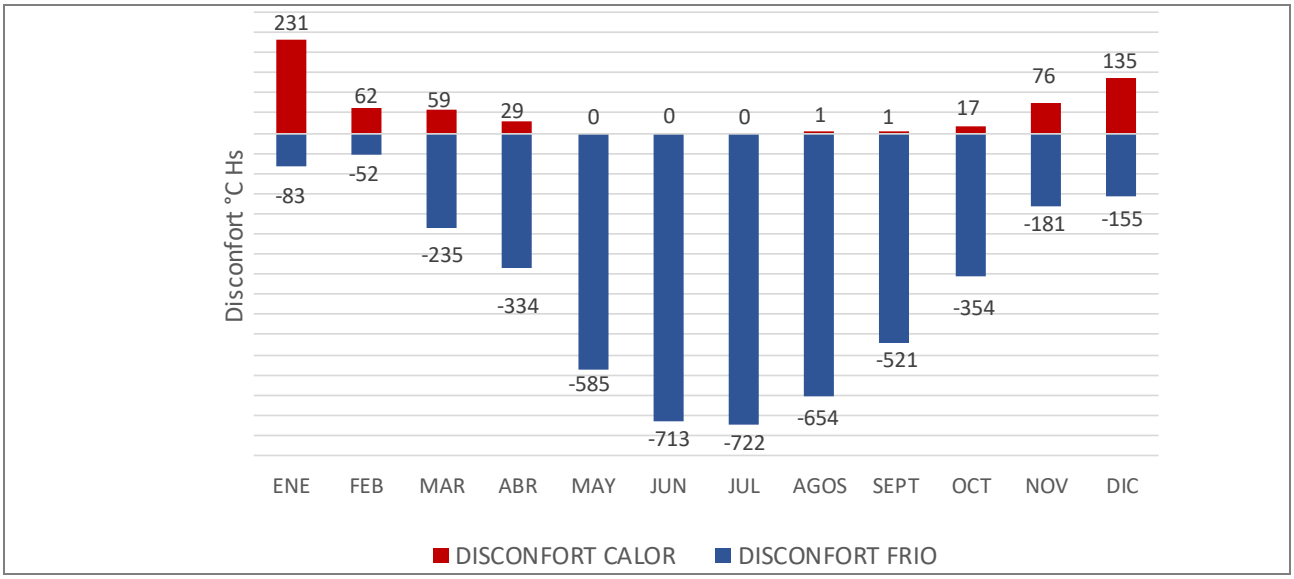




5,12 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| MET-004 | CU | METALES |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

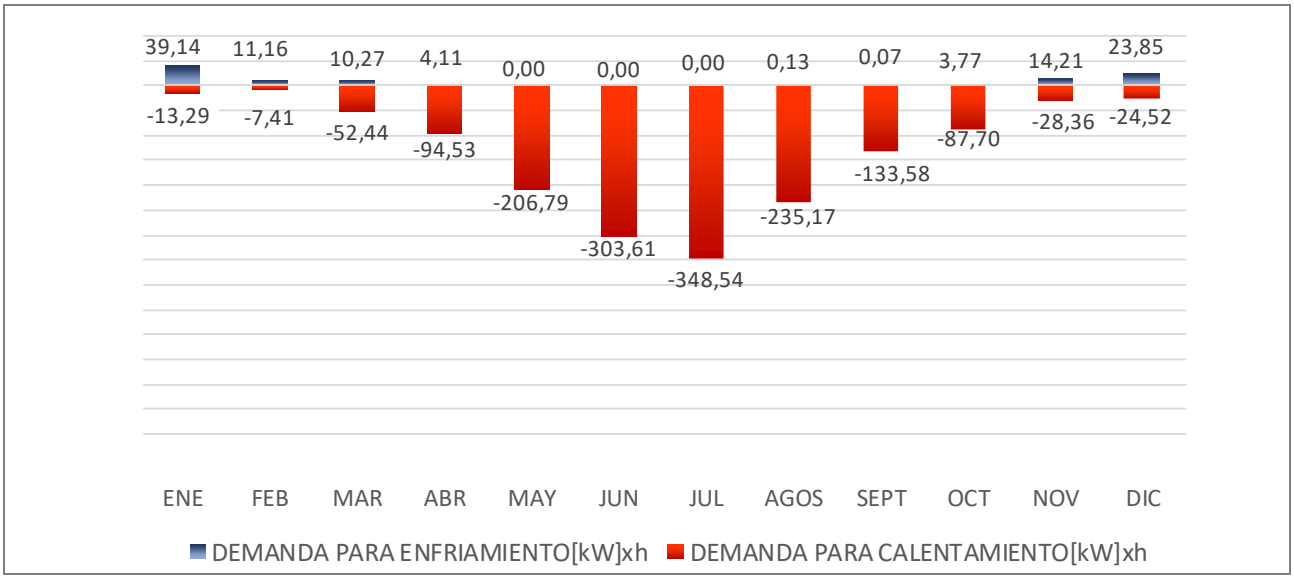
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **611** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.590** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.201** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

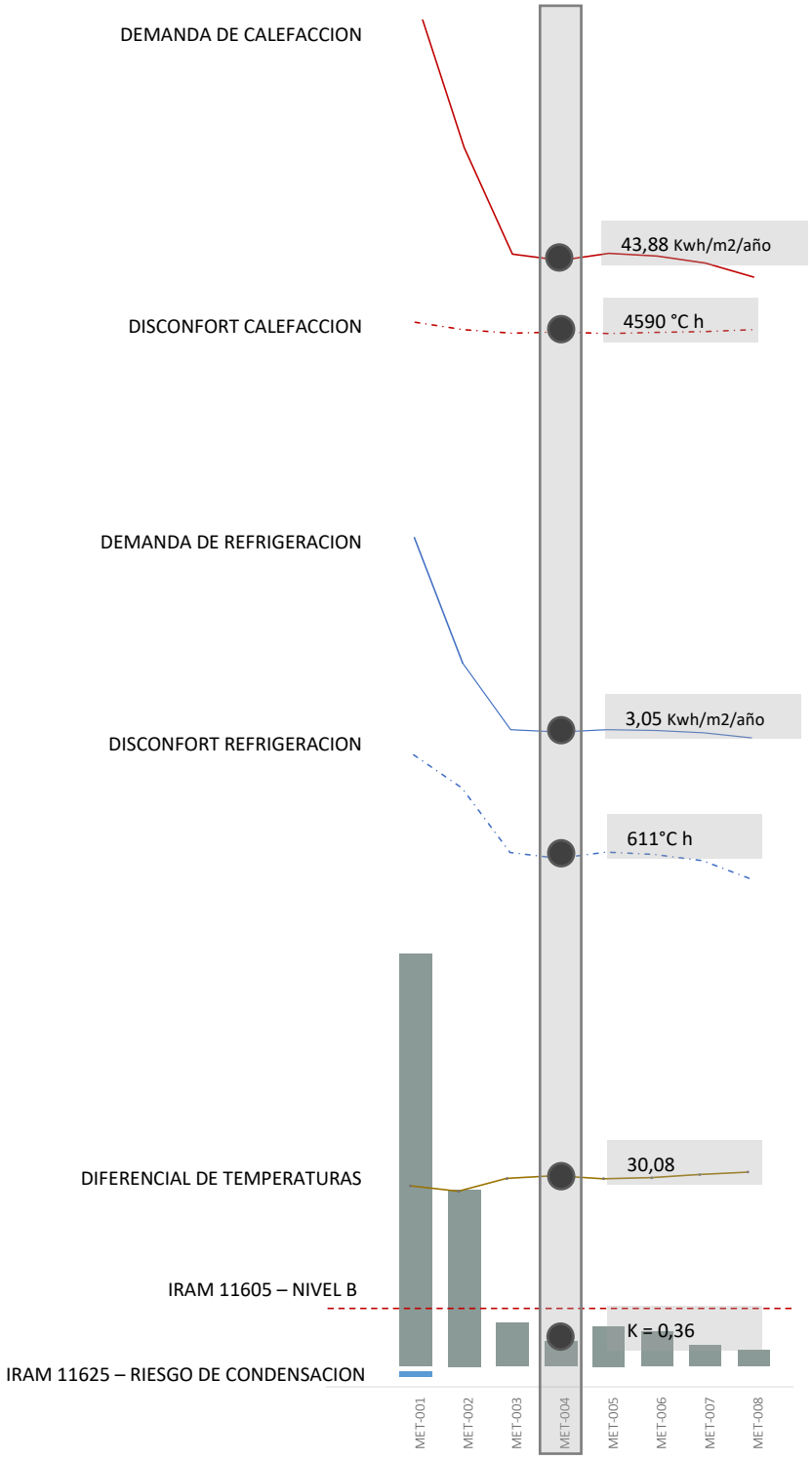



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **106,71** | kWh | 3,05 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.535,94** | kWh | 43,88 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.642,64** | kWh | **46,93** | kWh/m2/año |

| MET-004 | CU | METALES |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 036 | N° 037 | N° 077 | N° 082 | N° 082 | N° 074 |



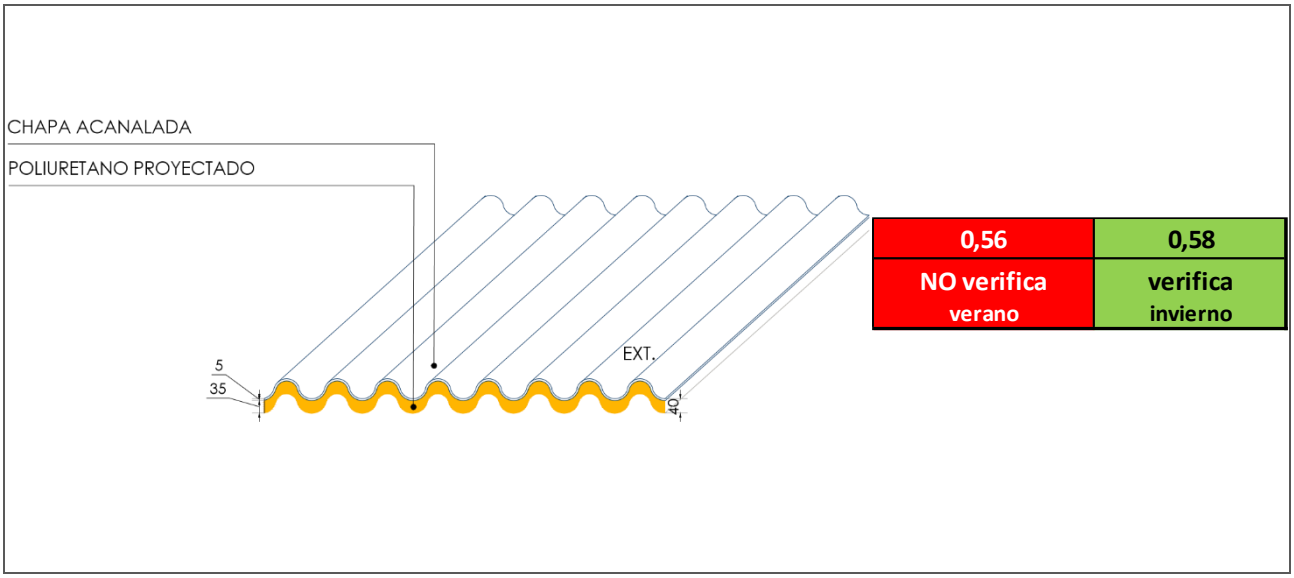

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,54 | 13% | 29,55 | 58,63 | 13,42 | 4607 | 873 |
| INDIVIDUAL | 0,36 | 0% | 30,08 | 43,88 | 3,05 | 4590 | 611 |
| INC. FAMILIA | 23,40% | 0% | 101,80% | 74,85% | 22,74% | 99,64% | 70,03% |
| INC. MUNDIAL | 44,44% | 0% | 101,28% | 98,66% | 74,15% | 100,64% | 96,73% |

| MET-005 | CU | METALES |
|---|---|---|

CUBIERTA DE CHAPA SINUSOIDAL CON CAPA POLIURETANO PROYECTADO 7 CM.

## INDICE DE TRANSMITANCIA TERMICA "K"

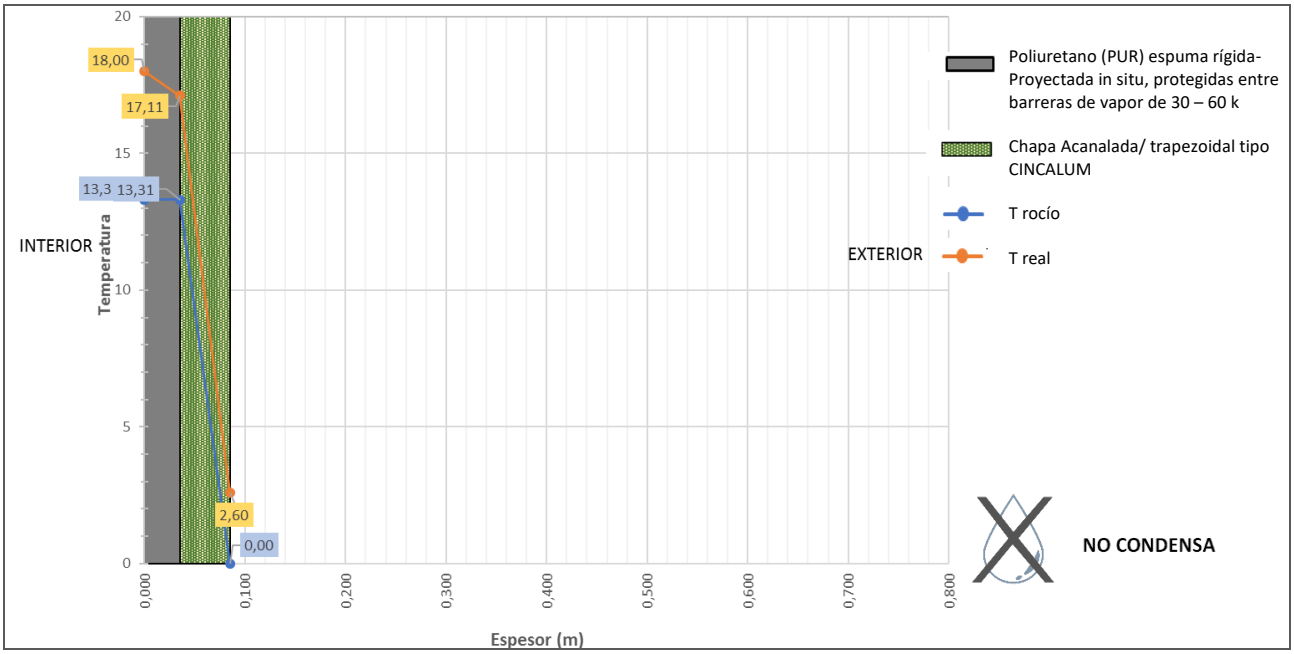
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,56 | 0,58 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



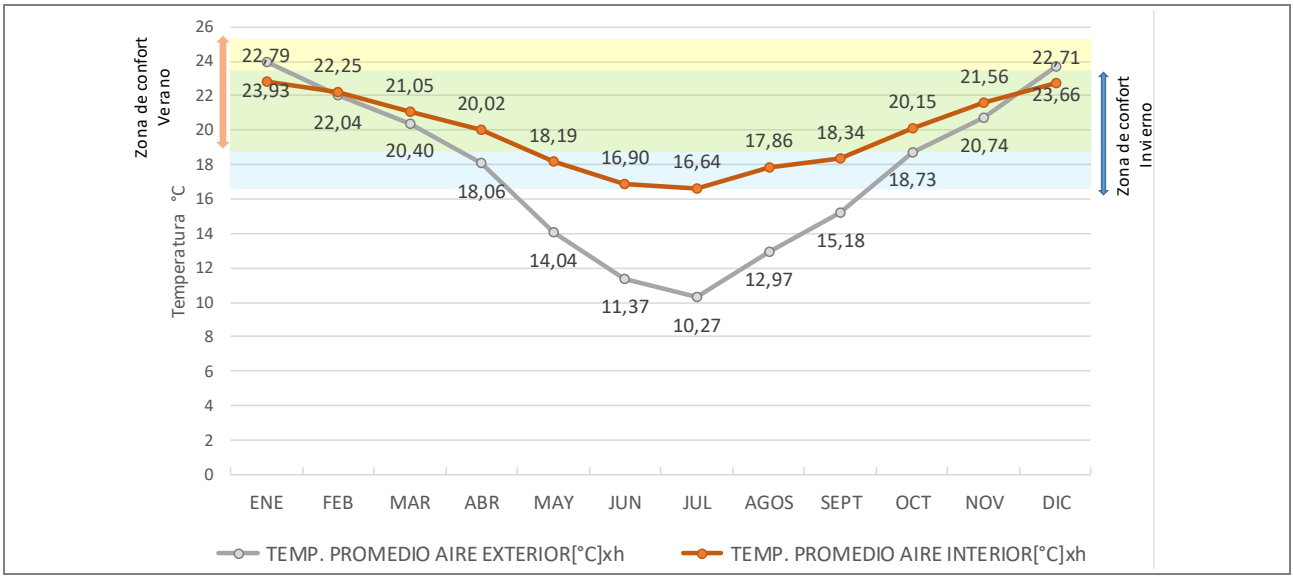

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 26,5 | 0,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,3** | **1,1** |
| | **Amortiguamiento:** | 0,015 | 0,659 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,3** | **1,9** |
| | **Amortiguamiento:** | 0,051 | 0,612 |

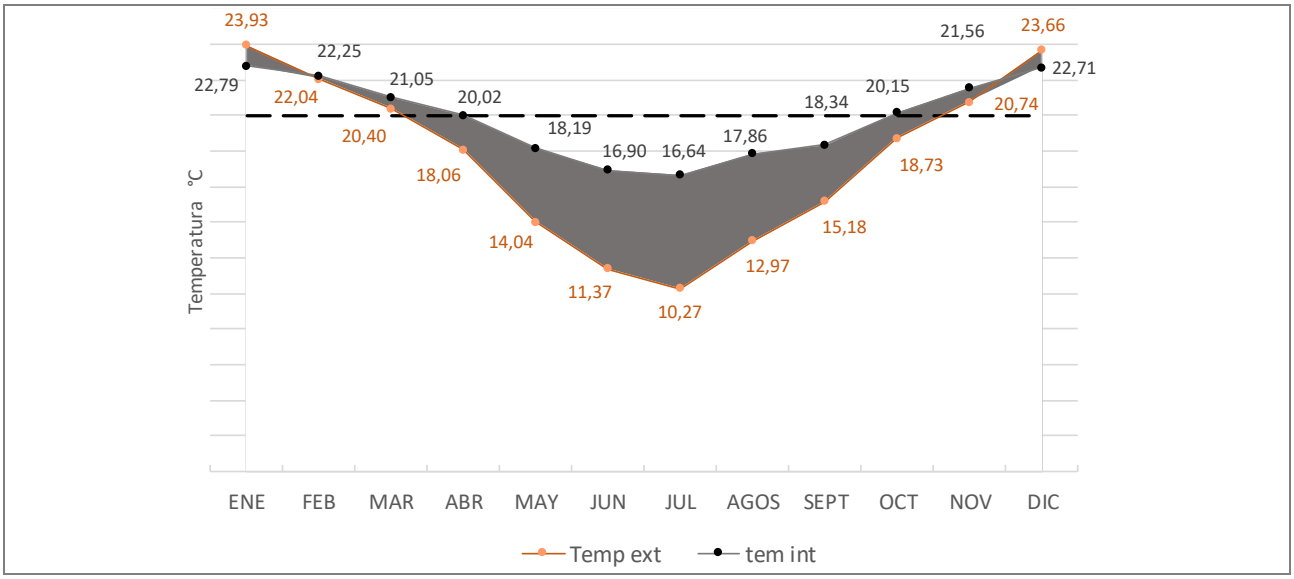
| MET-005 | CU | METALES |
|---|---|---|

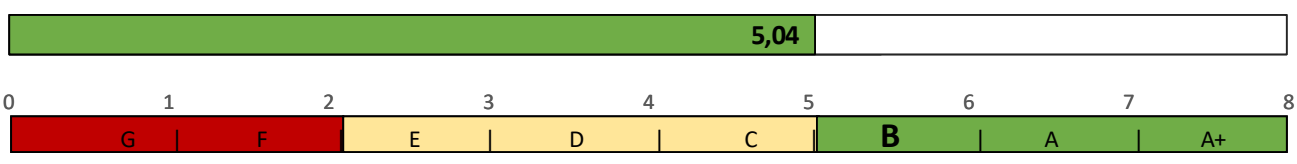
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,75** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **12,67** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



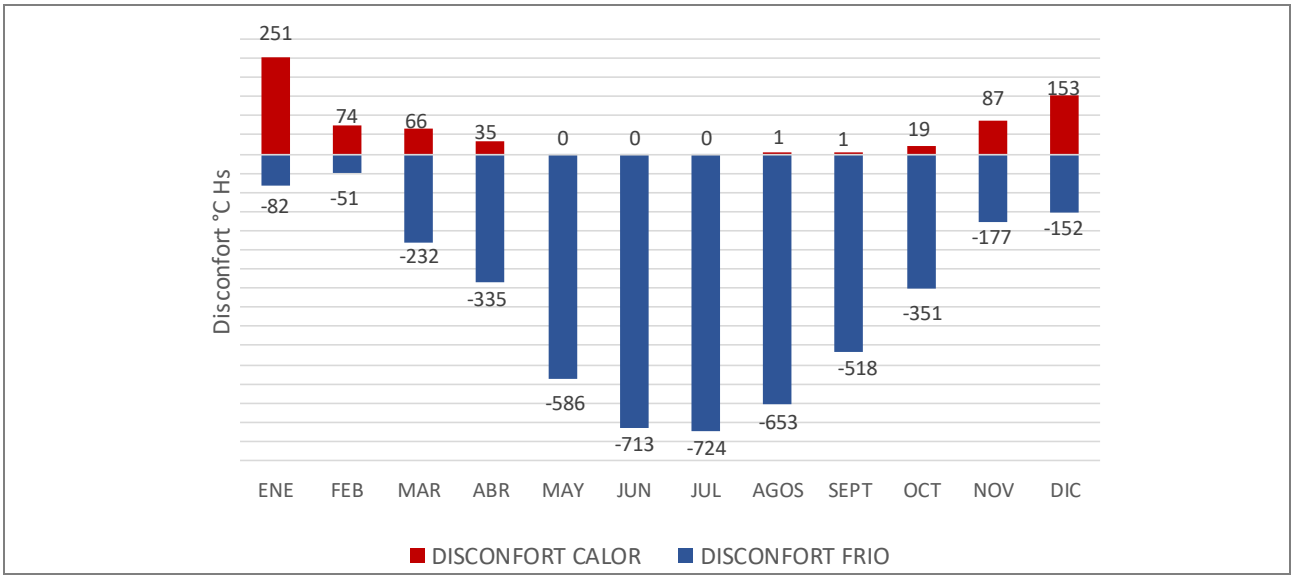




5,04 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| MET-005 | CU | METALES |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

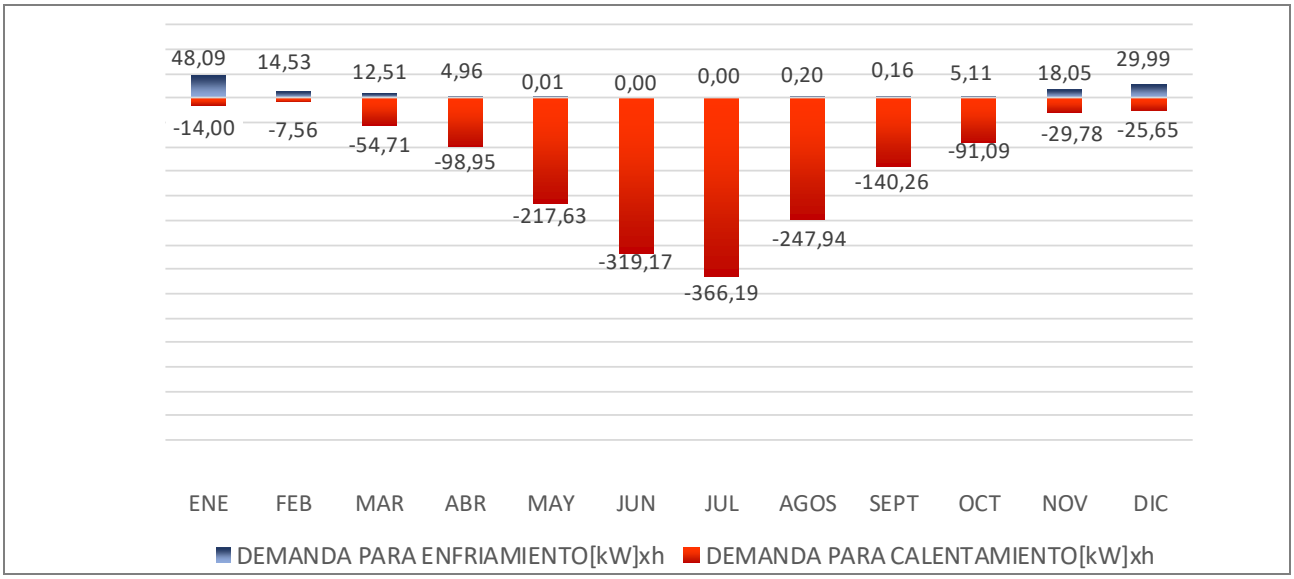
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **687** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.573** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.260** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

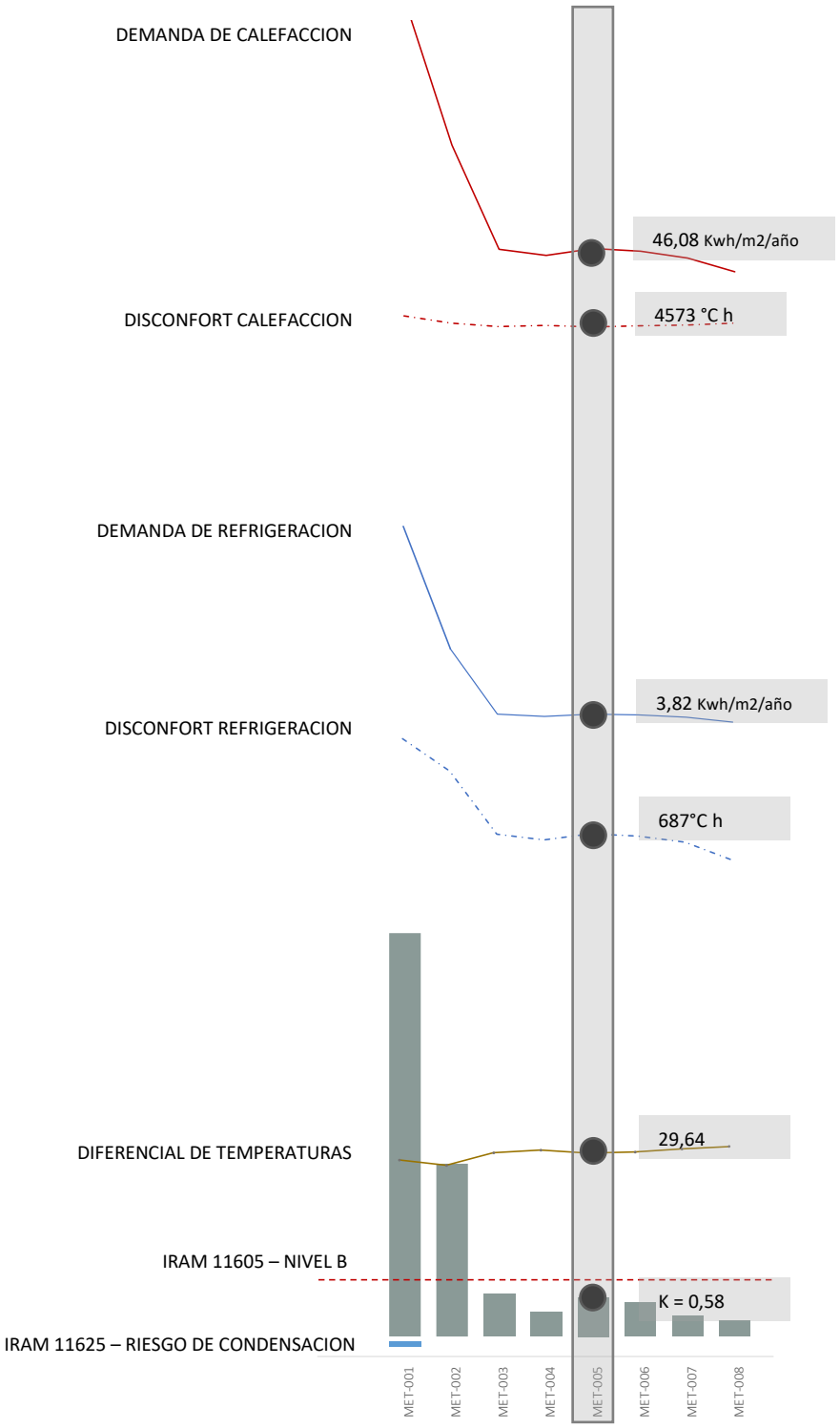



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **133,60** | kWh | 3,82 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.612,93** | kWh | 46,08 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.746,52** | kWh | **49,90** | kWh/m2/año |

| MET-005 | CU | METALES |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 072 | N° 070 | N° 101 | N° 103 | N° 065 | N° 097 |



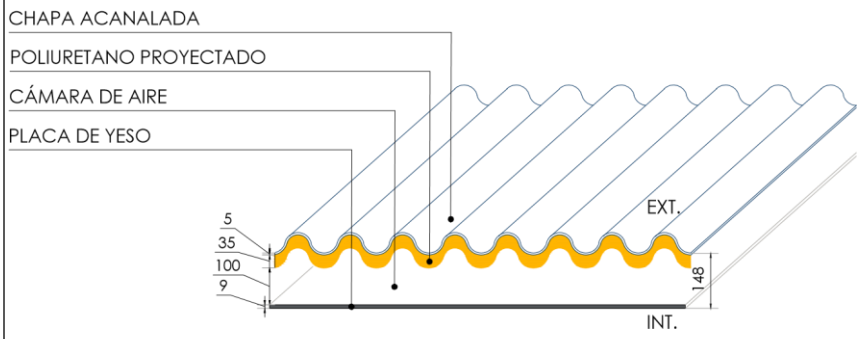

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,54 | 13% | 29,55 | 58,63 | 13,42 | 4607 | 873 |
| INDIVIDUAL | 0,58 | 0% | 29,64 | 46,08 | 3,82 | 4573 | 687 |
| INC. FAMILIA | 37,69% | 0% | 100,31% | 78,60% | 28,48% | 99,27% | 78,74% |
| INC. MUNDIAL | 71,60% | 0% | 99,80% | 103,60% | 92,87% | 100,26% | 108,76% |

| MET-006 | CU | METALES |
|---|---|---|

CUBIERTA DE CHAPA SINUSOIDAL CON CAPA POLIURETANO PROYECTADO 7 CM- CON CAMARA DE AIRE PROMEDIO 10 CM SIN AISLACION CON CIELORRASO JUNTA TOMADA.

## INDICE DE TRANSMITANCIA TERMICA "K"

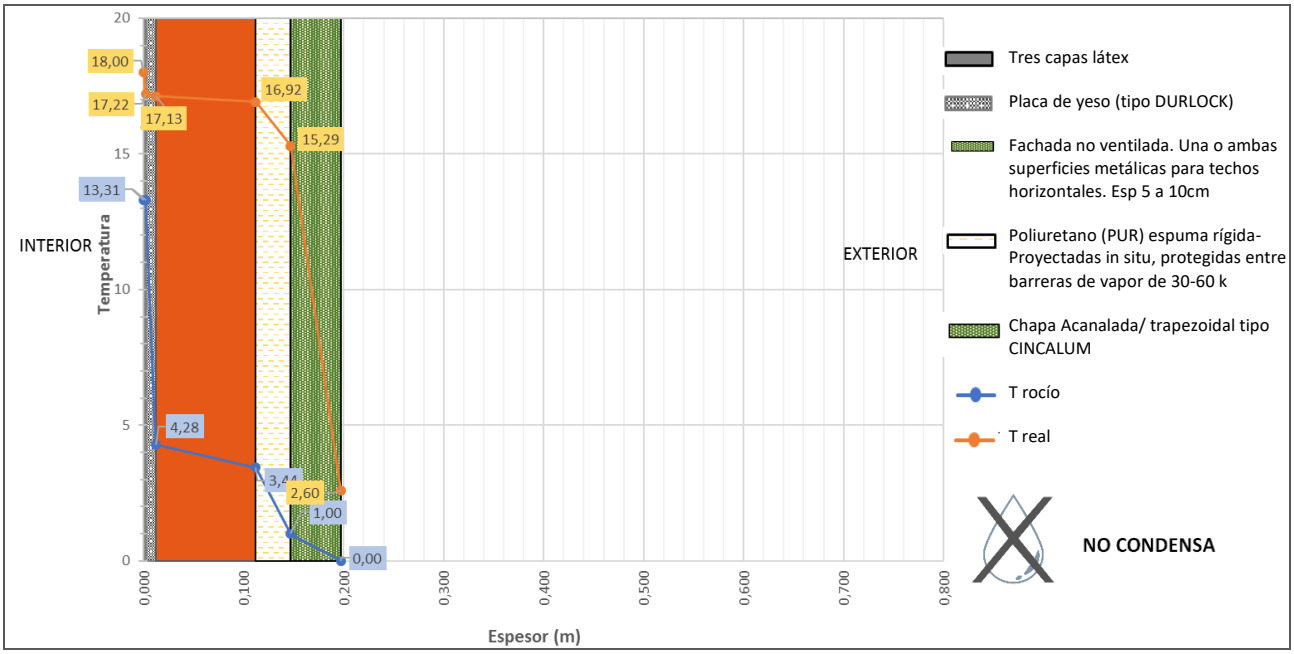
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,49 | 0,51 |
|---|---|
| NO verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



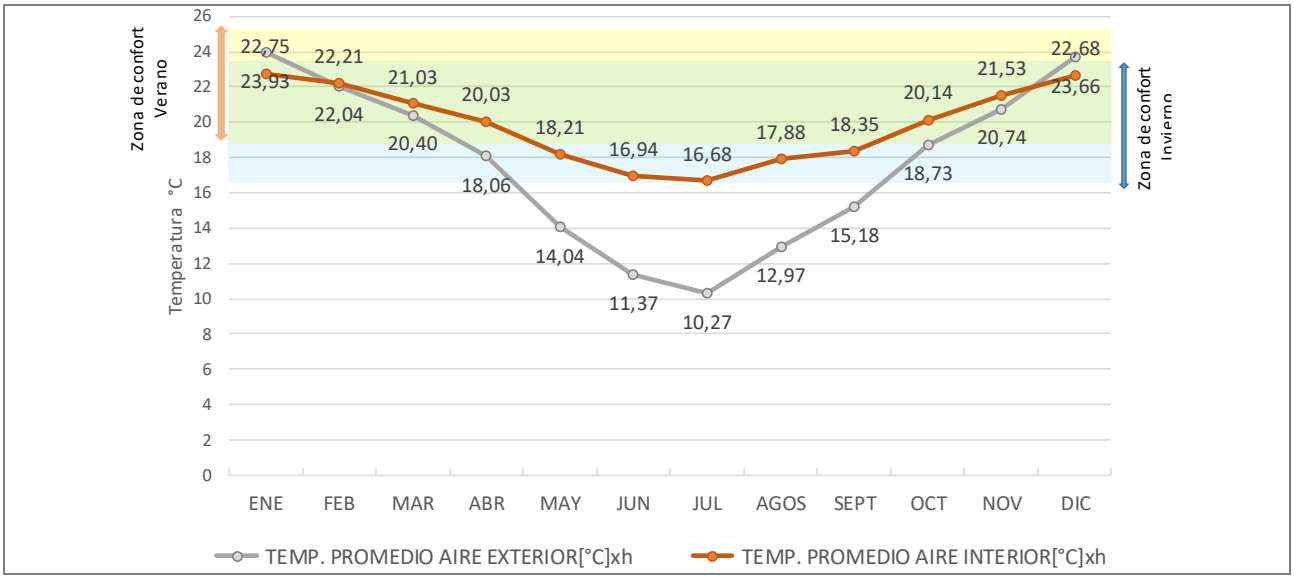

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 24,3 | 1,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,5** | **3,2** |
| | **Amortiguamiento:** | 0,010 | 0,309 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,1** | **3,4** |
| | **Amortiguamiento:** | 0,042 | 0,413 |

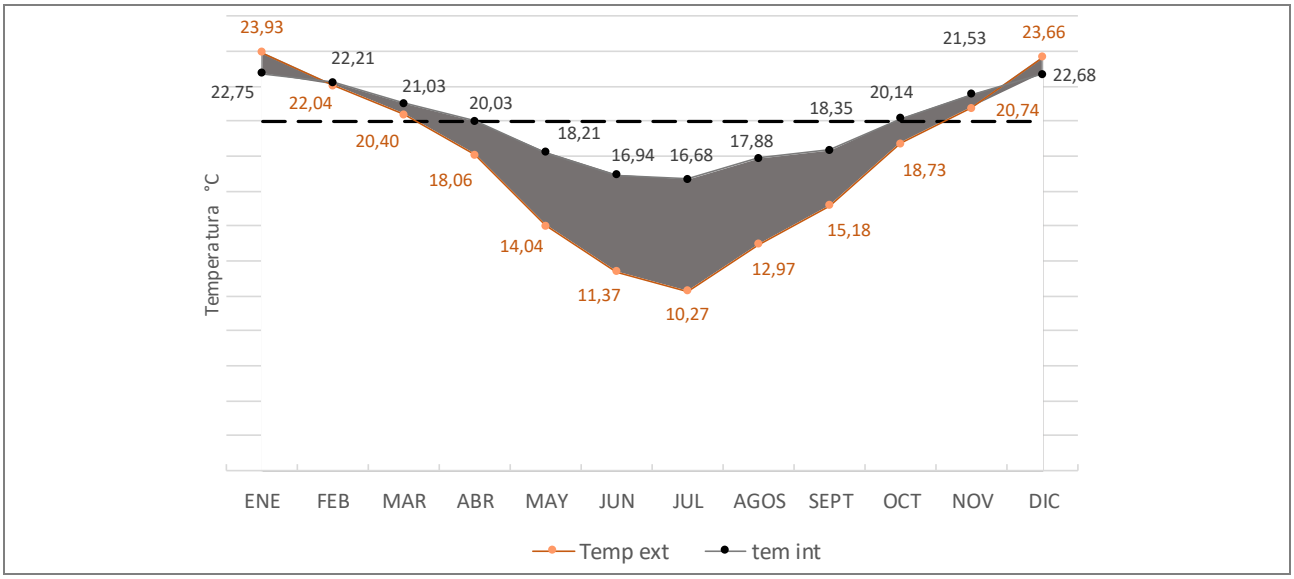
| MET-006 | CU | METALES |
|---|---|---|

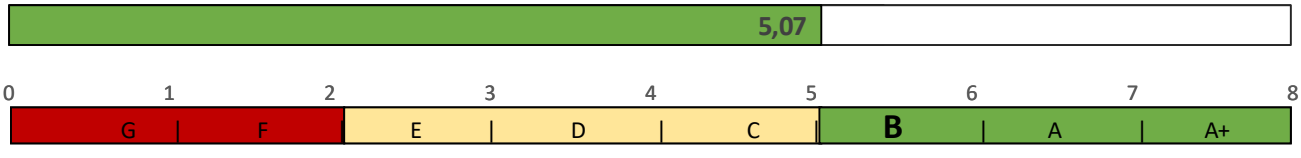
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,65** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **12,77** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



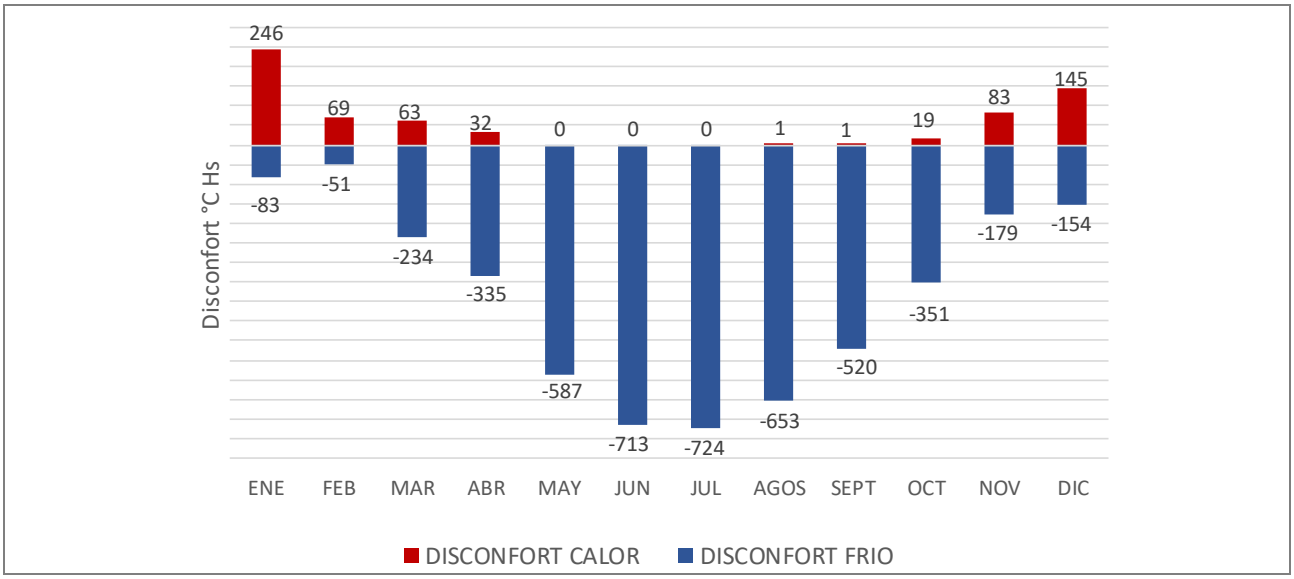




5,07 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| MET-006 | CU | METALES |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

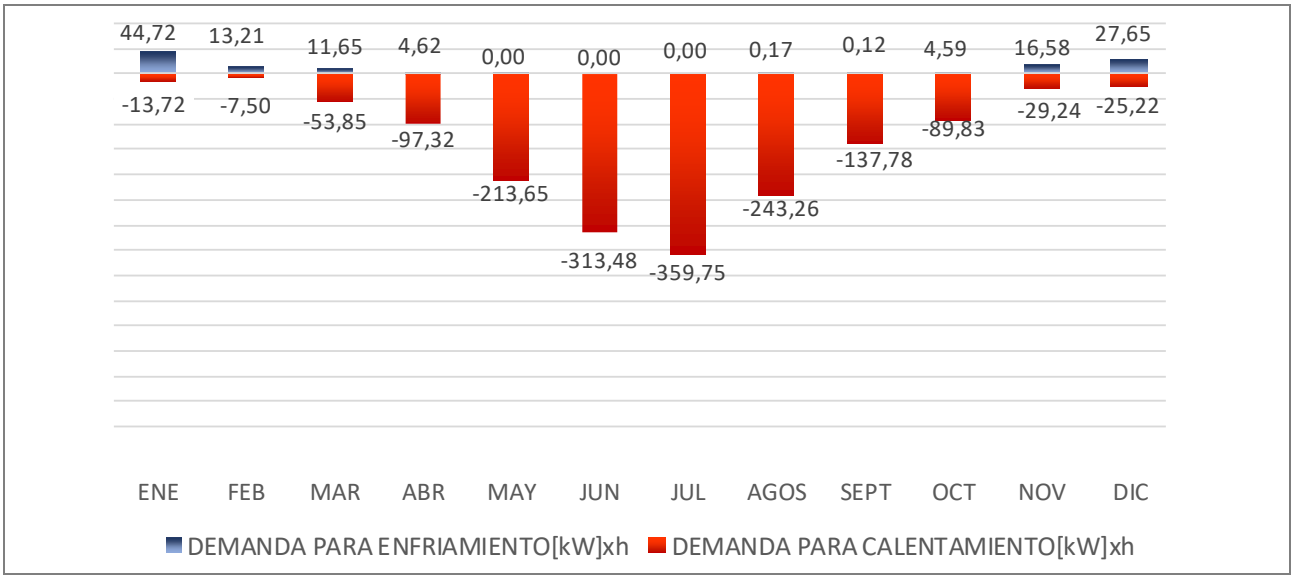
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **658** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.584** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.242** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

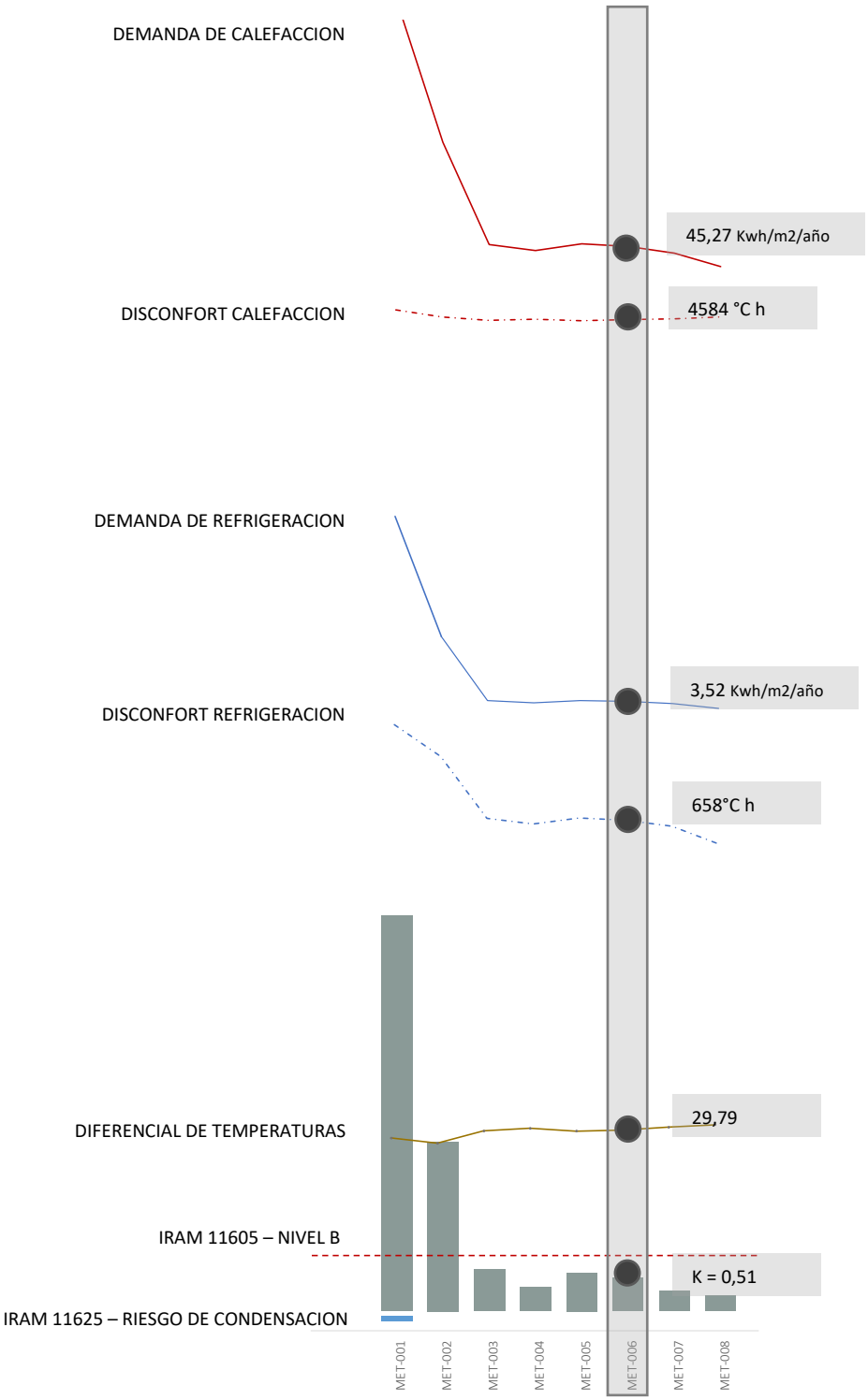
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **123,31** | kWh | 3,52 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.584,64** | kWh | 45,27 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.707,92** | kWh | **48,80** | kWh/m2/año |

| MET-006 | CU | METALES |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS



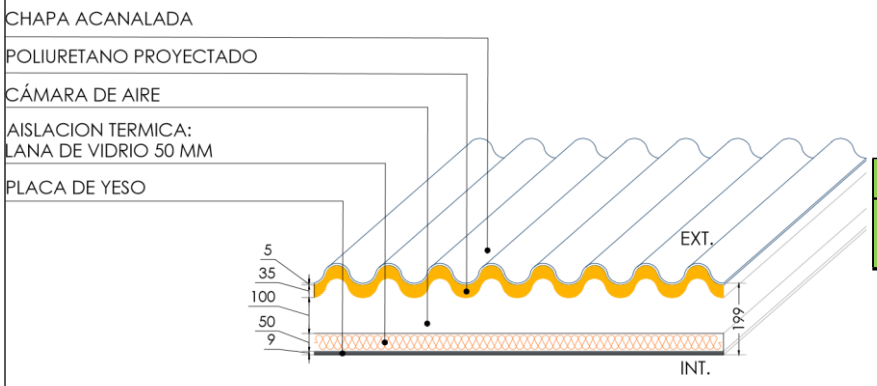

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,54 | 13% | 29,55 | 58,63 | 13,42 | 4607 | 873 |
| INDIVIDUAL | 0,51 | 0% | 29,79 | 45,27 | 3,52 | 4584 | 658 |
| INC. FAMILIA | 33,14% | 0% | 100,82% | 77,22% | 26,24% | 99,51% | 75,42% |
| INC. MUNDIAL | 62,96% | 0% | 100,31% | 101,78% | 85,58% | 100,51% | 104,17% |

| MET-007 | CU | METALES |
|---|---|---|

CUBIERTA DE CHAPA SINUSOIDAL CON CAPA POLIURETANO PROYECTADO 7 CM- CON CAMARA DE AIRE PROMEDIO 10 CM- AISLACION DE LANA DE VIDRIO 50 MM SOBRE CIELORRASO JUNTA TOMADA.

## INDICE DE TRANSMITANCIA TERMICA "K"

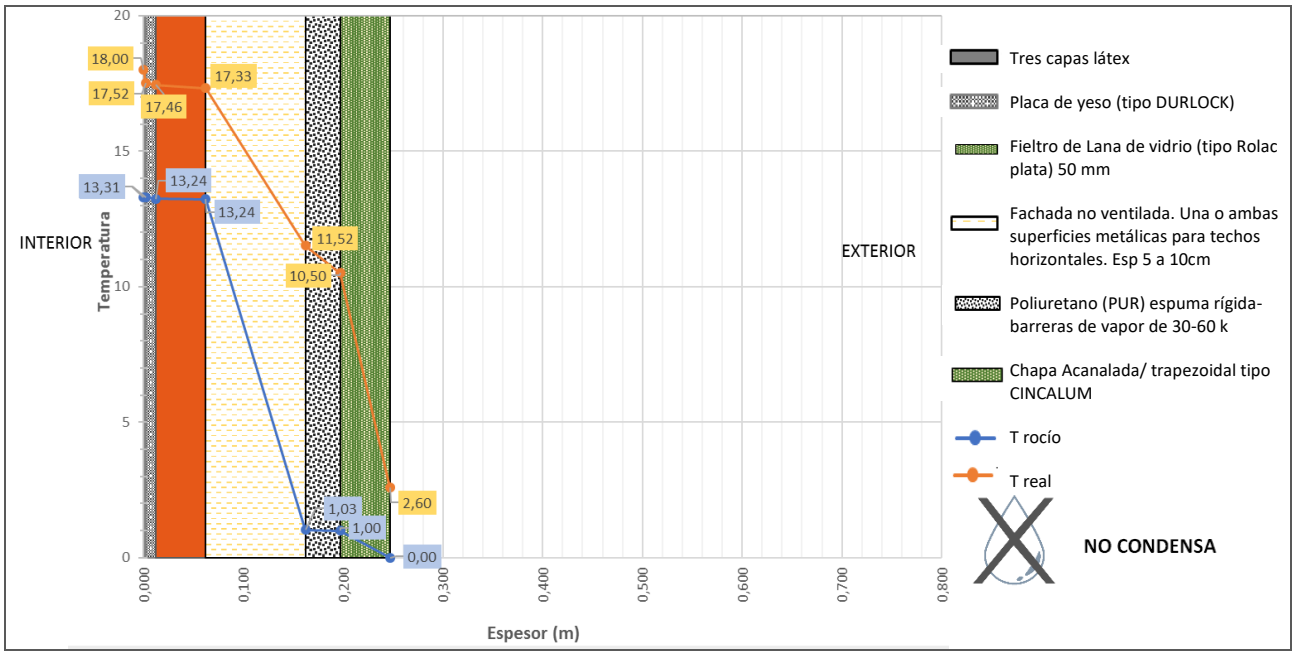
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,31 | 0,31 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



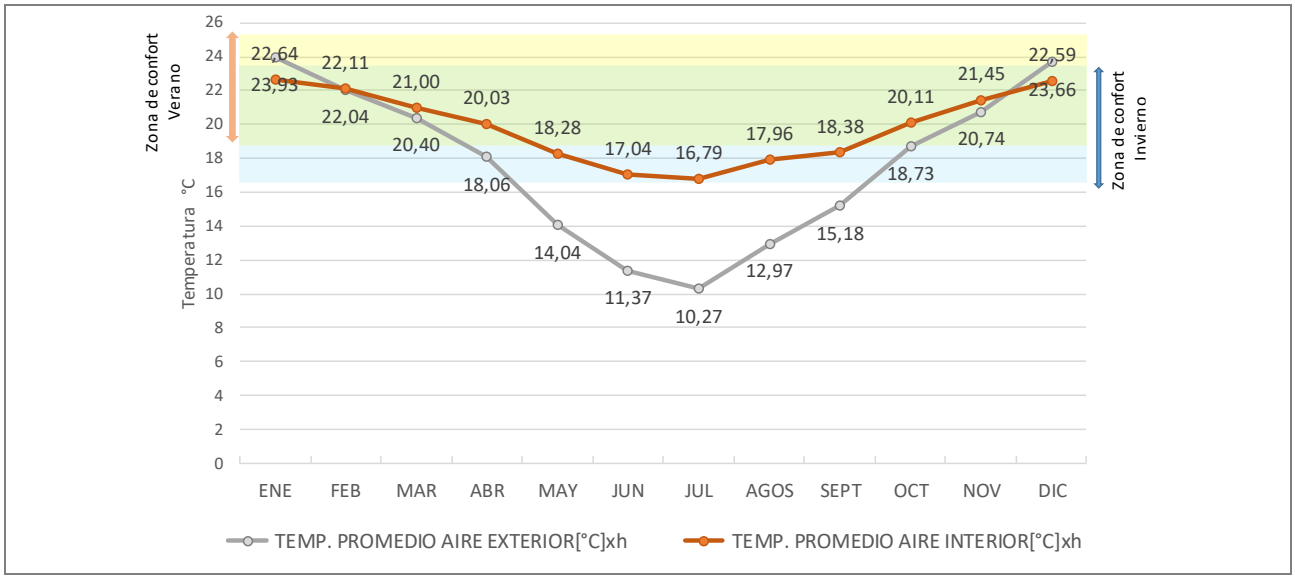

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 14,7 | 0,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **16,1** | **4,1** |
| | **Amortiguamiento:** | 0,003 | 0,221 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **15,3** | **4,1** |
| | **Amortiguamiento:** | 0,018 | 0,345 |

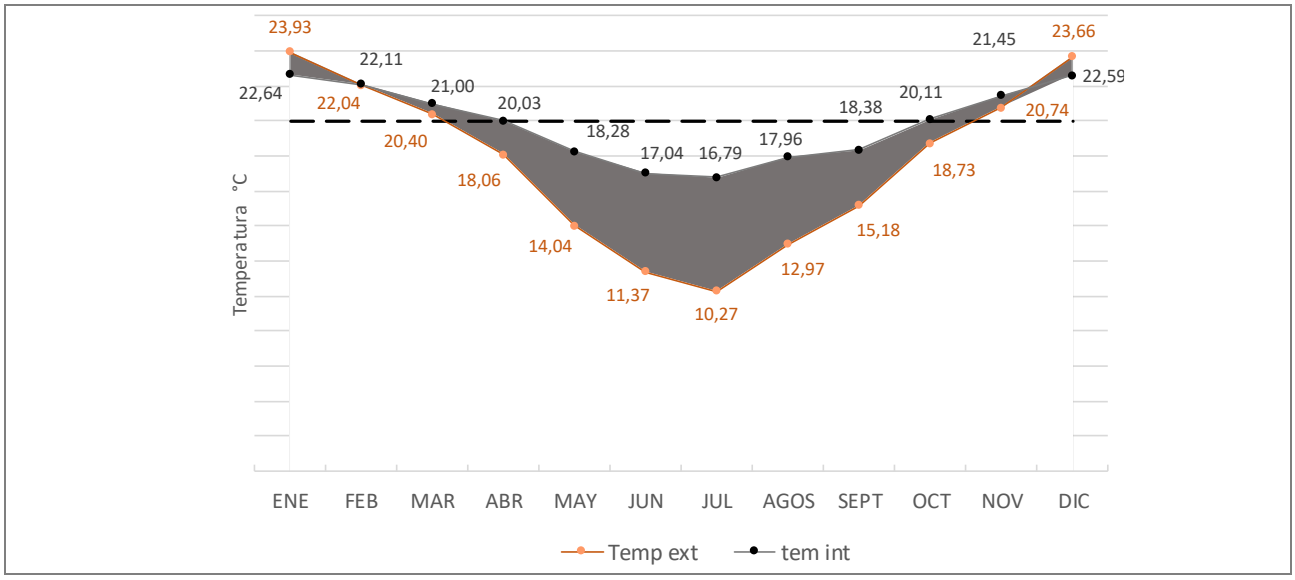
| MET-007 | CU | METALES |
|---|---|---|

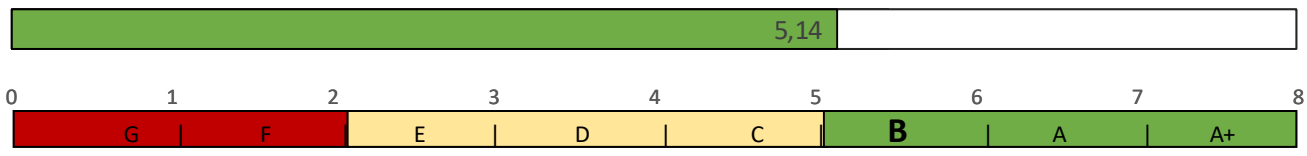
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,36** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 23/07 09:00 hs | **13,04** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



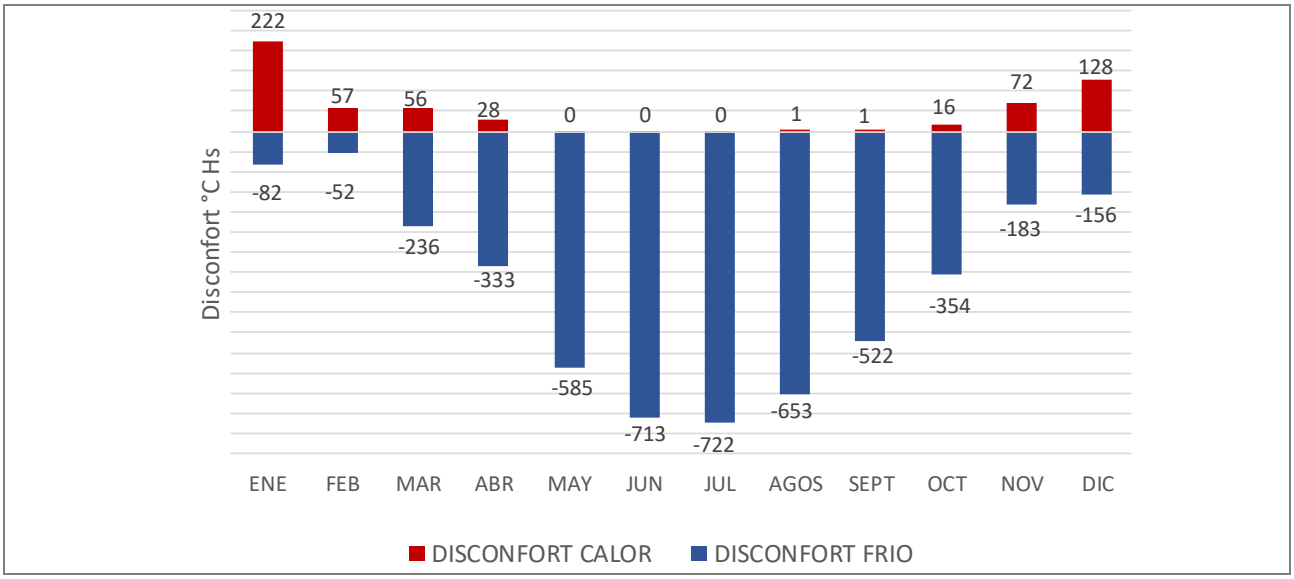




5,14 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| MET-007 | CU | METALES |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

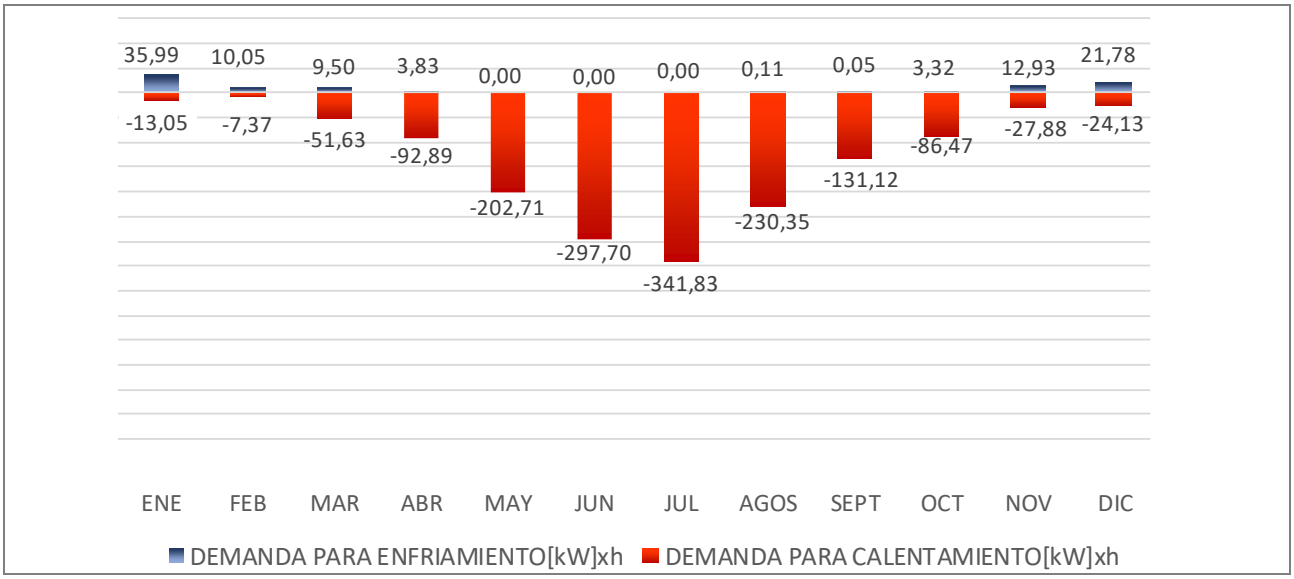
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **581** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.592** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.174** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

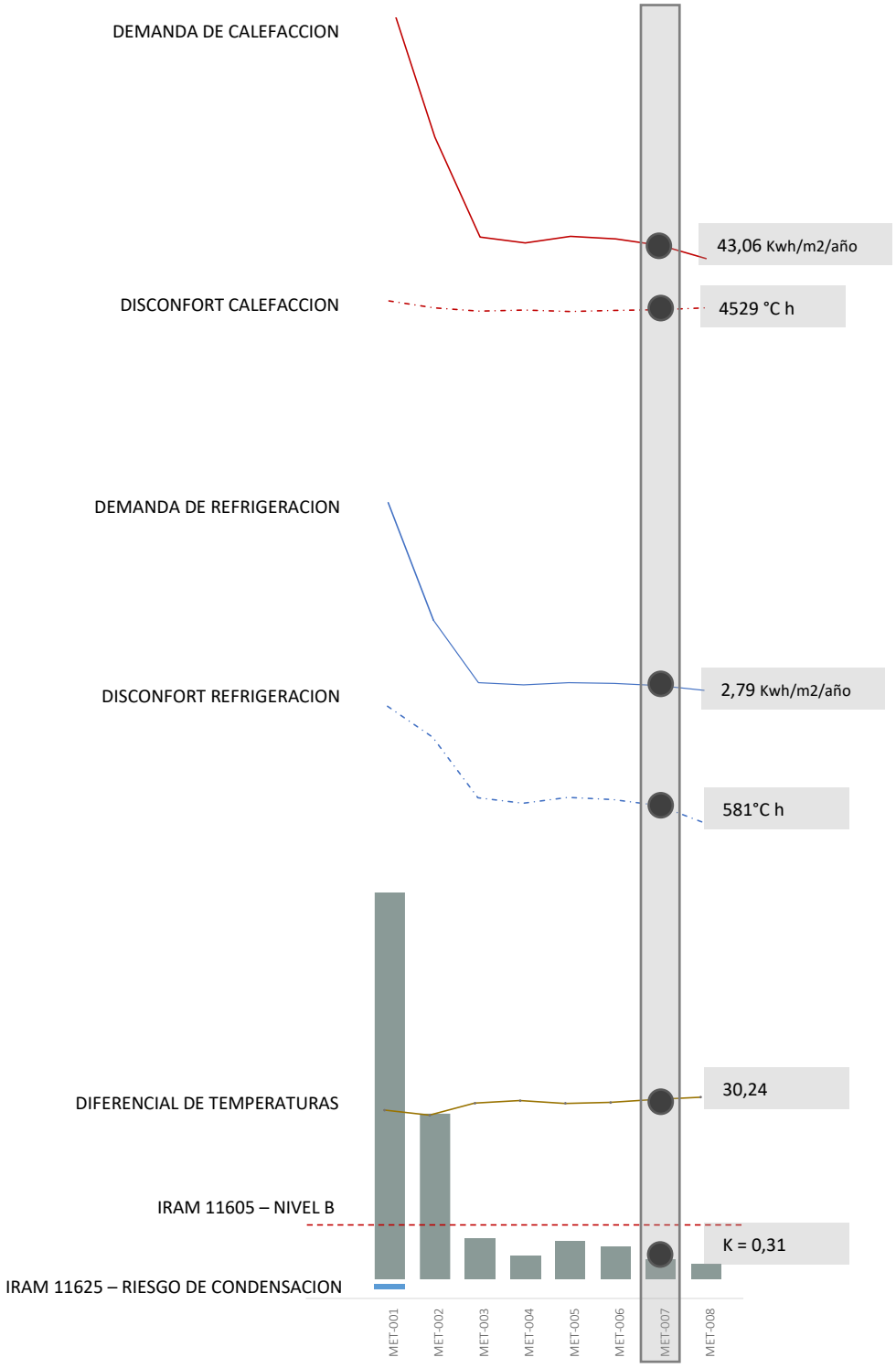



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **97,55** | kWh | 2,79 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.507,12** | kWh | 43,06 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.604,67** | kWh | **45,85** | kWh/m2/año |

| MET-007 | CU | METALES |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 017 | N° 019 | N° 068 | N° 064 | N° 083 | N° 060 |



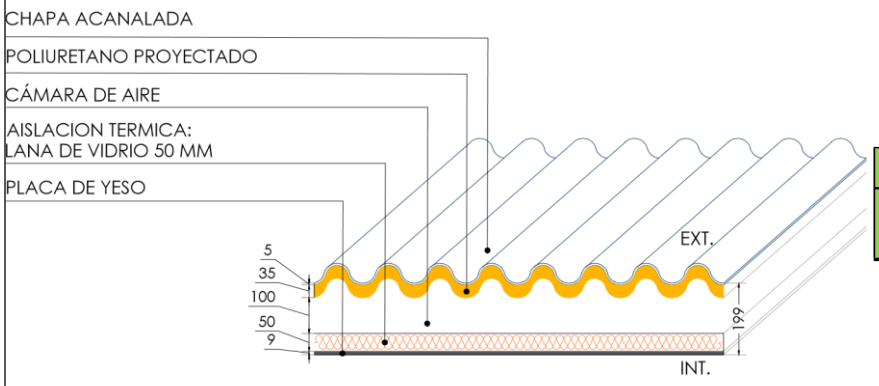

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,54 | 13% | 29,55 | 58,63 | 13,42 | 4607 | 873 |
| INDIVIDUAL | 0,31 | 0% | 30,24 | 43,06 | 2,79 | 4592 | 581 |
| INC. FAMILIA | 20,15% | 0% | 102,34% | 73,45% | 20,80% | 99,68% | 66,59% |
| INC. MUNDIAL | 38,27% | 0% | 101,82% | 96,81% | 67,83% | 100,68% | 91,98% |

| MET-008 | CU | METALES |
|---|---|---|

CUBIERTA DE CHAPA SINUSOIDAL CON CAPA POLIURETANO PROYECTADO 7 CM-CON CAMARA DE AIRE PROMEDIO 10 CM- AISLACION DE LANA DE VIDRIO 100 MM SOBRE CIELORRASO JUNTA TOMADA.

## INDICE DE TRANSMITANCIA TERMICA "K"

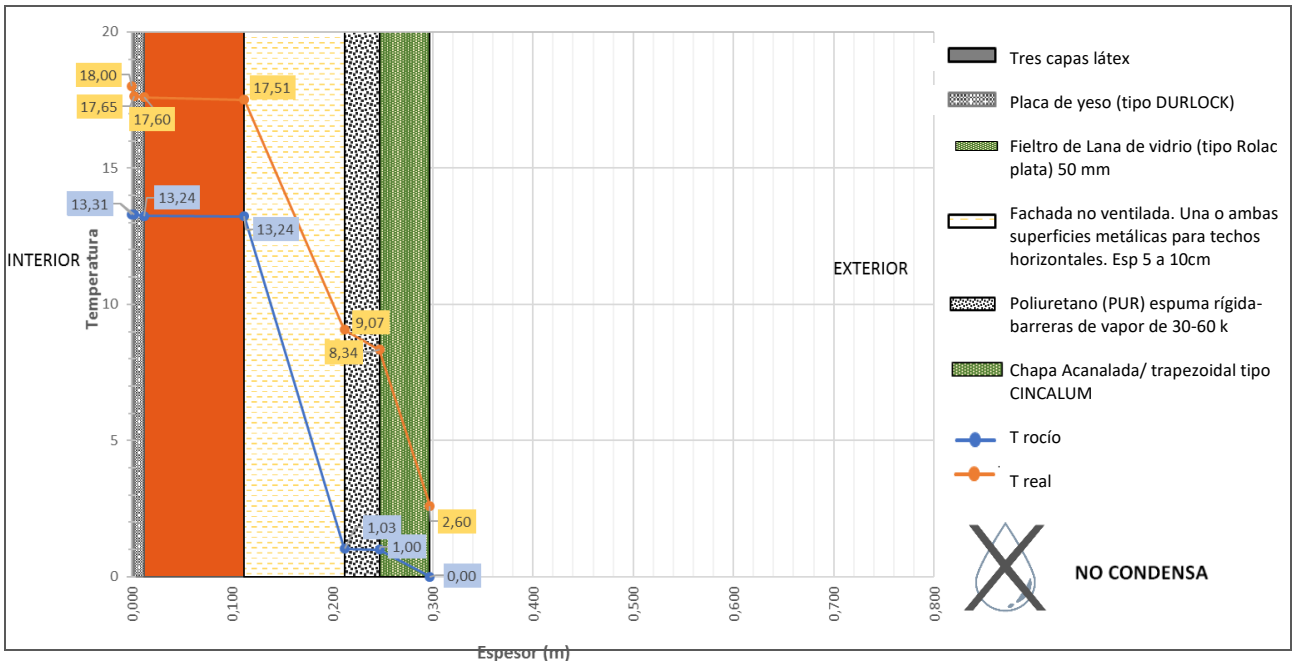
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,22 | 0,23 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



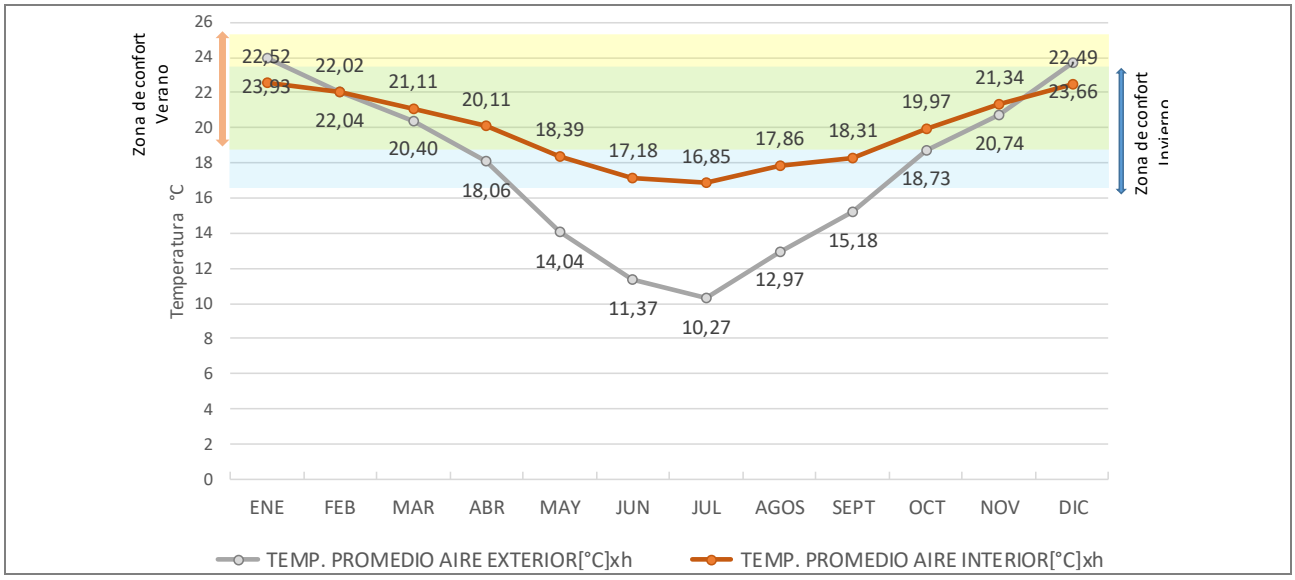

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 10,5 | 0,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **19,0** | **4,8** |
| | **Amortiguamiento:** | 0,001 | 0,168 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **18,0** | **4,6** |
| | **Amortiguamiento:** | 0,009 | 0,296 |

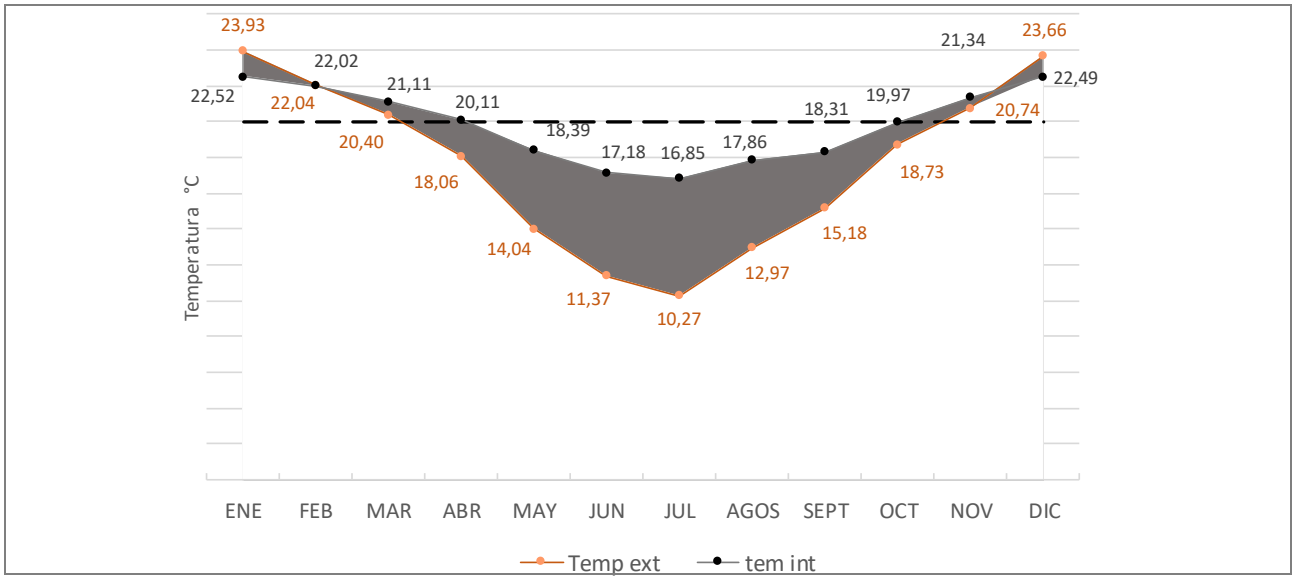
| MET-008 | CU | METALES |
|---|---|---|

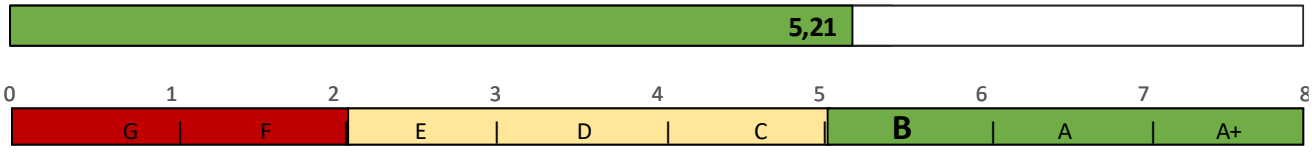
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,33** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,76** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



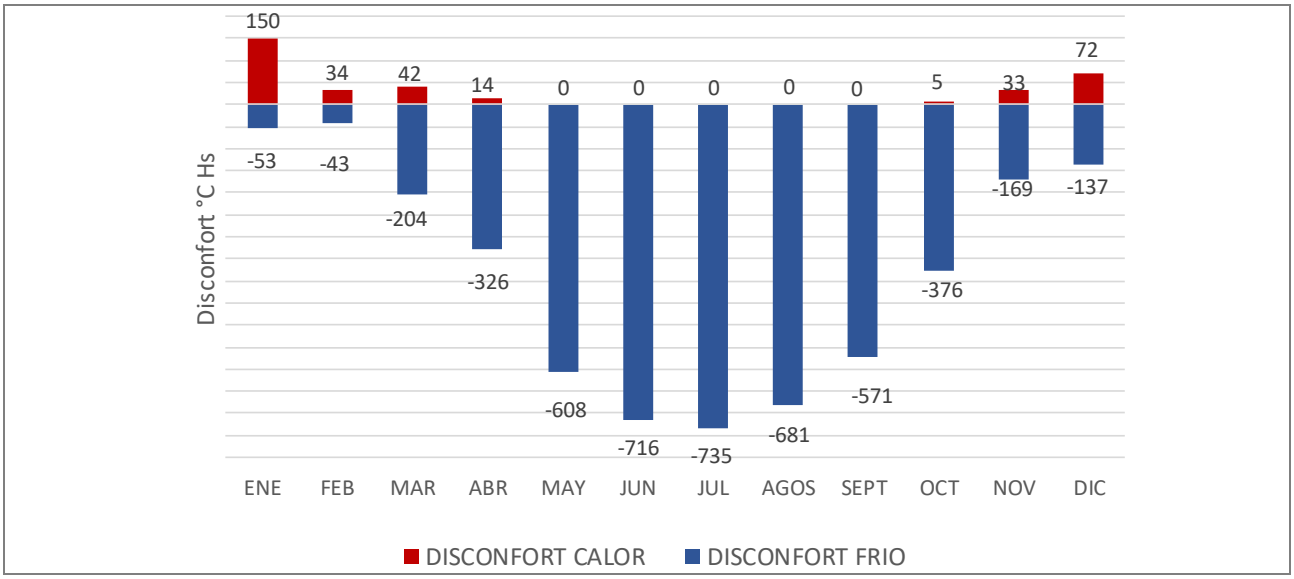




5.21 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.65

| MET-008 | CU | METALES |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

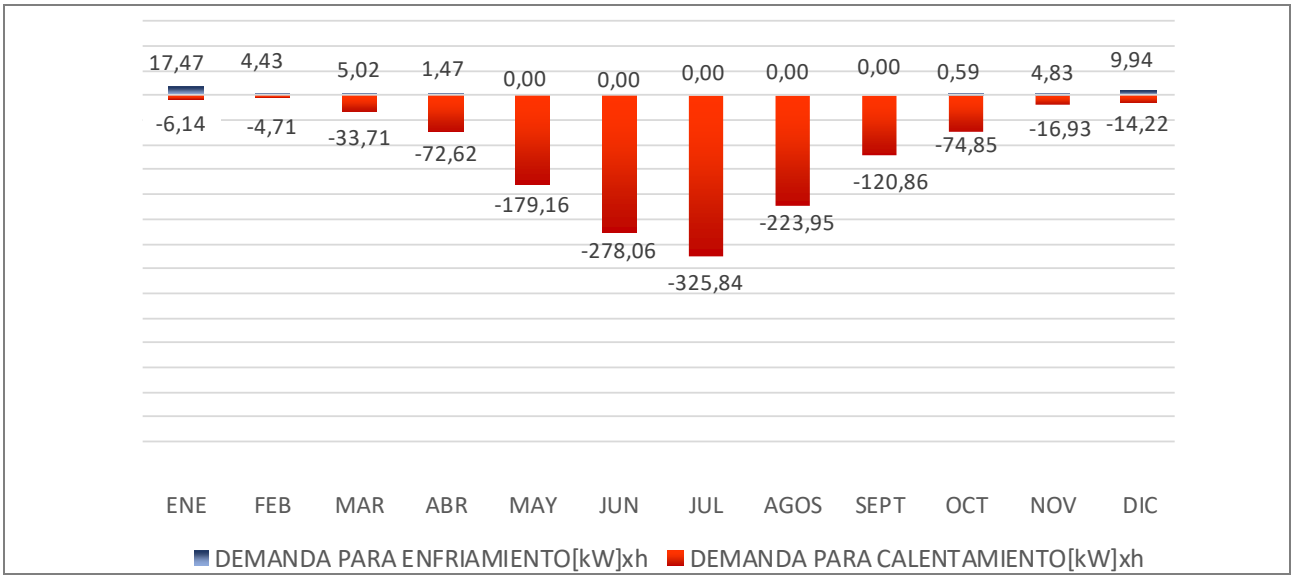
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **349** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.618** | °C Hs | 55% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.968** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

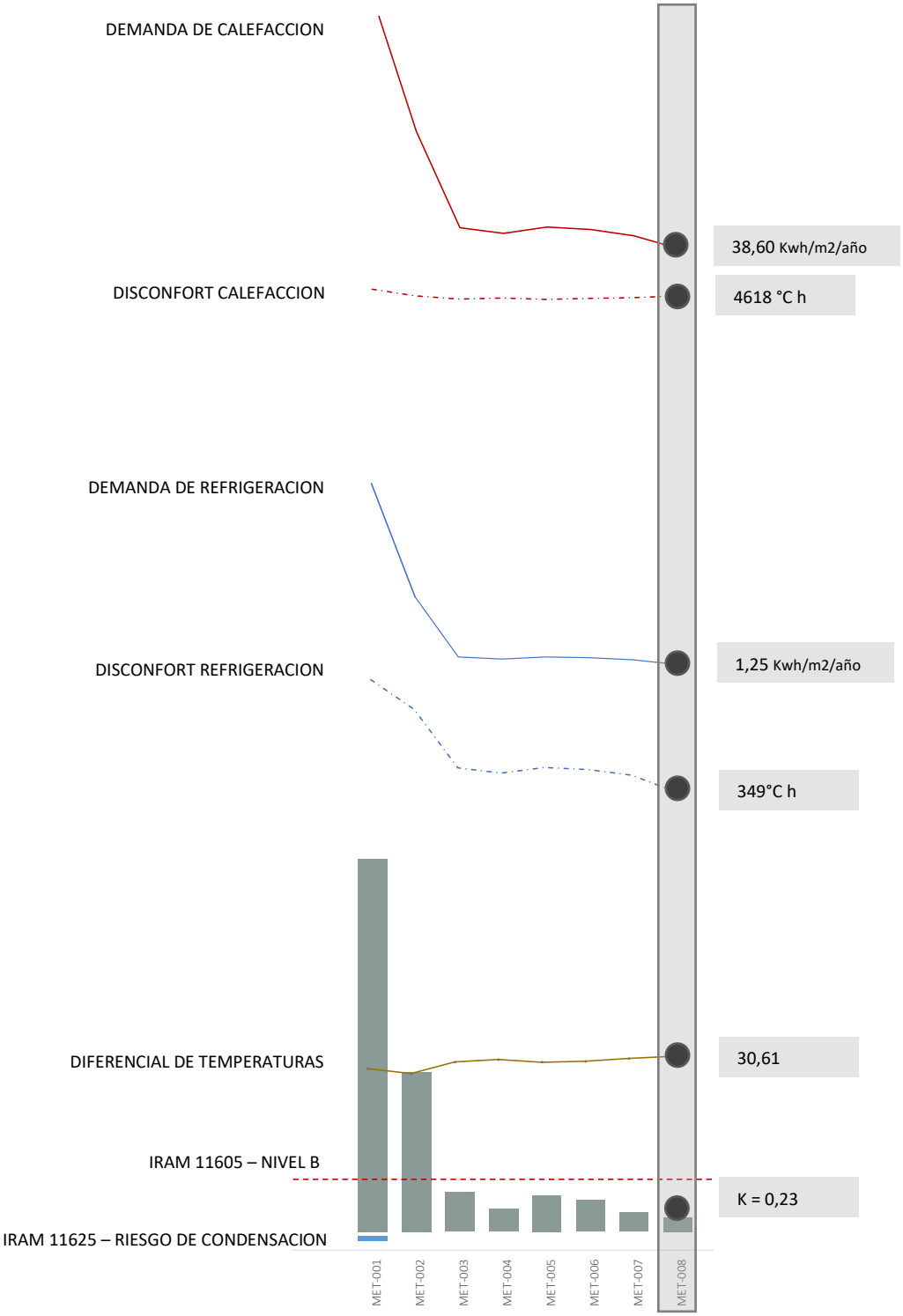



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **43,76** | kWh | 1,25 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.351,05** | kWh | 38,60 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.394,81** | kWh | **39,85** | kWh/m2/año |

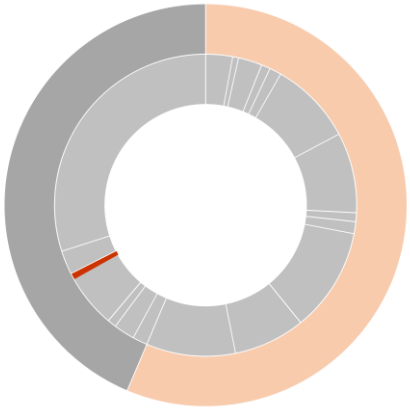
| MET-008 | CU | METALES |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 002 | N° 002 | N° 006 | N° 005 | N° 115 | N° 005 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 1,54 | 13% | 29,55 | 58,63 | 13,42 | 4607 | 873 |
| INDIVIDUAL | 0,23 | 0% | 30,61 | 38,6 | 1,25 | 4618 | 349 |
| INC. FAMILIA | 14,95% | 0% | 103,59% | 65,84% | 9,32% | 100,24% | 40,00% |
| INC. MUNDIAL | 28,40% | 0% | 103,07% | 86,78% | 30,39% | 101,25% | 55,25% |



# ACERO

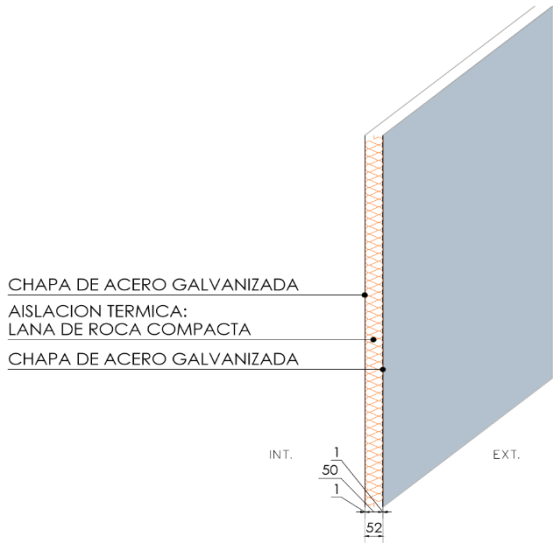
**ACE 001**: PANEL DE CHAPA CON LANA MINERAL

**ACE 002**: PANEL COMPUESTO DE ALUMINIO Y POLIURETANO

| ACE-001 | MU | ACERO |
|---|---|---|
| PANEL DE CHAPA CON LANA MINERAL | | |

## INDICE DE TRANSMITANCIA TERMICA "K"

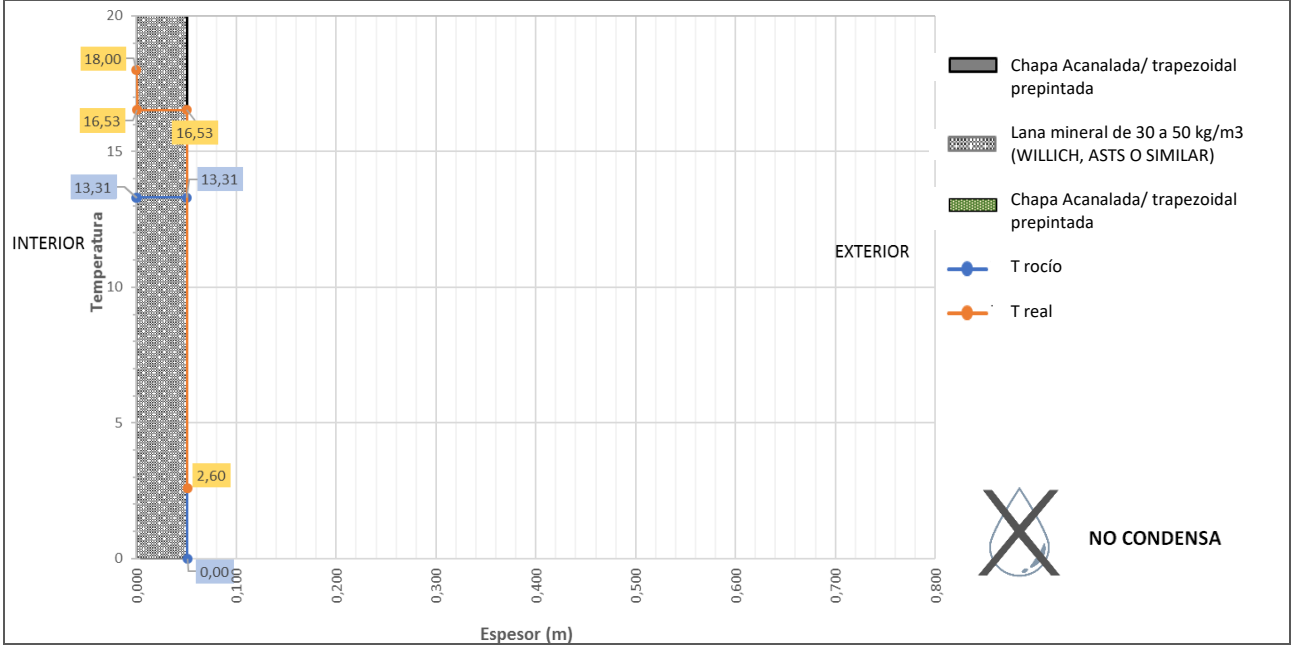
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,74 | 0,74 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



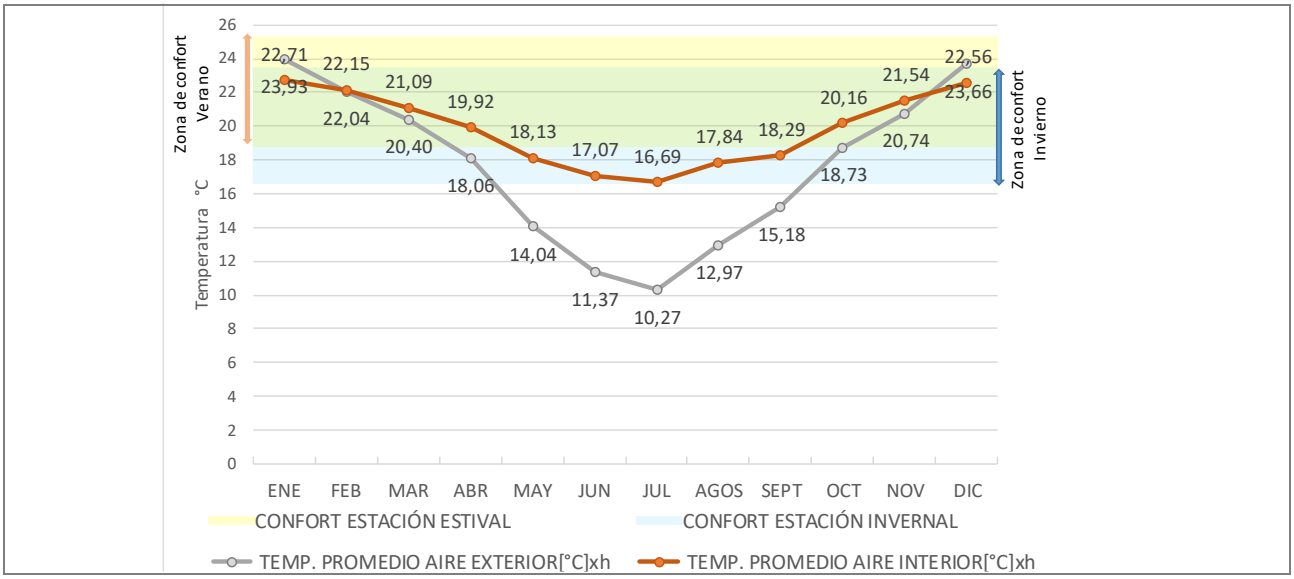

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 0,4 | 0,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **1,0** | **1,0** |
| | **Amortiguamiento:** | 0,697 | 0,697 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **1,0** | **1,0** |
| | **Amortiguamiento:** | 0,764 | 0,778 |

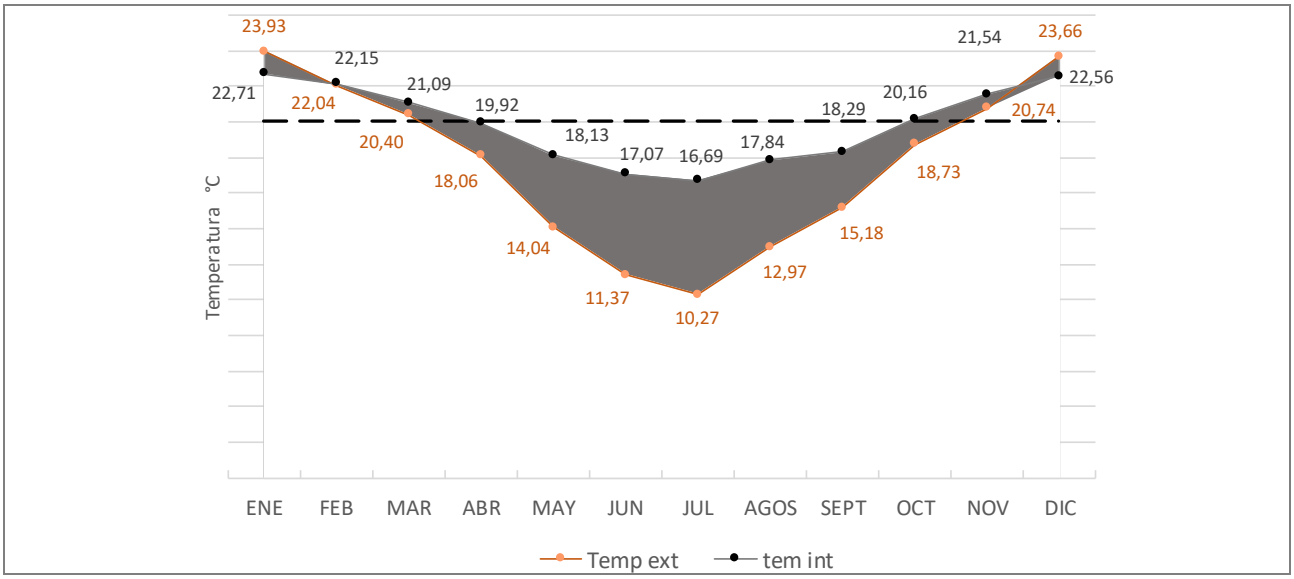
| ACE-001 | MU | ACERO |
|---|---|---|

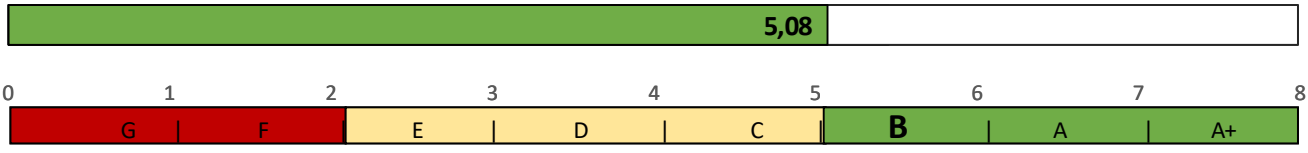
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 17:00 hs | **27,73** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **12,07** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



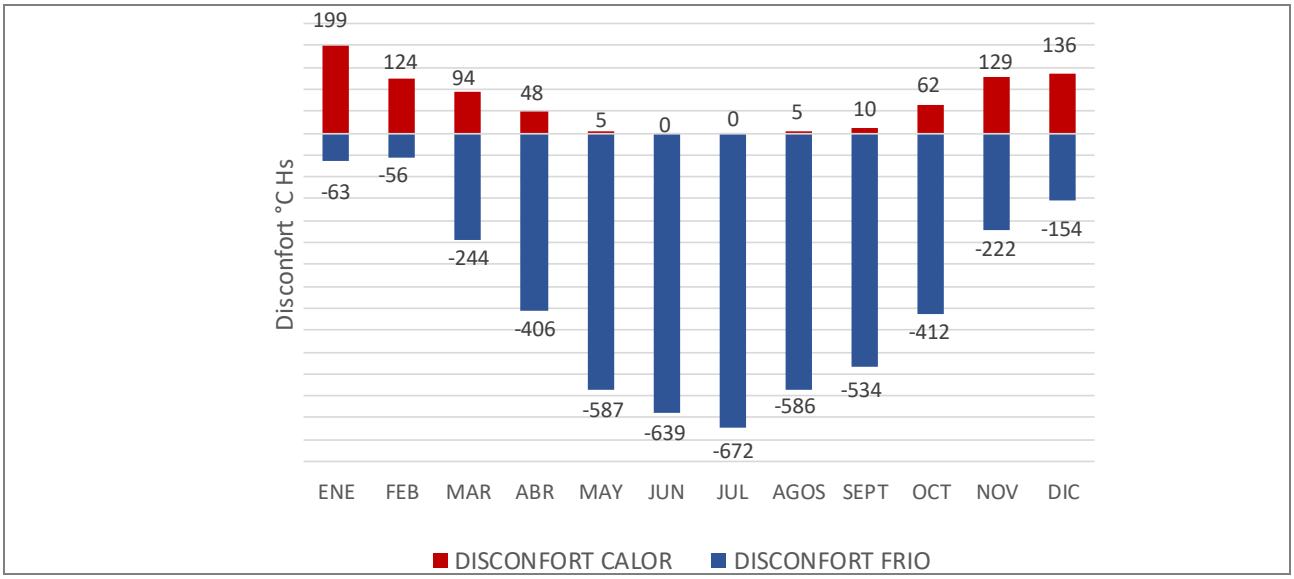




5,08 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,63

| ACE-001 | MU | ACERO |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

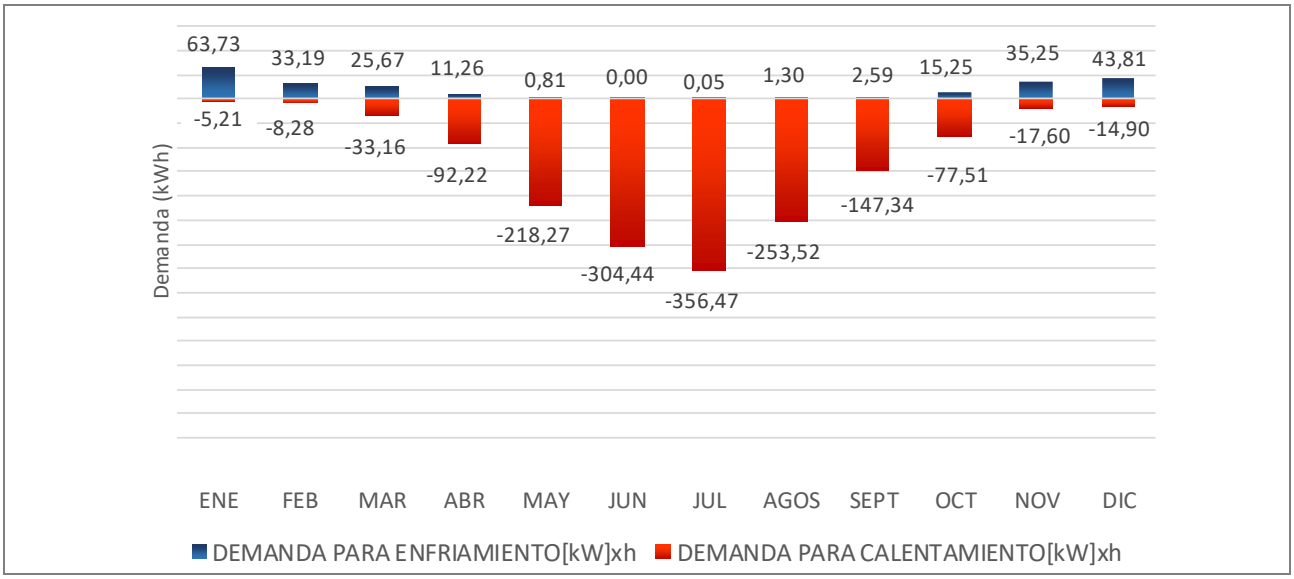
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **812** | °C Hs | 9% |
| HORAS DE DISCONFORT POR FRÍO | **4.574** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.385** | **°C Hs** | **61%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

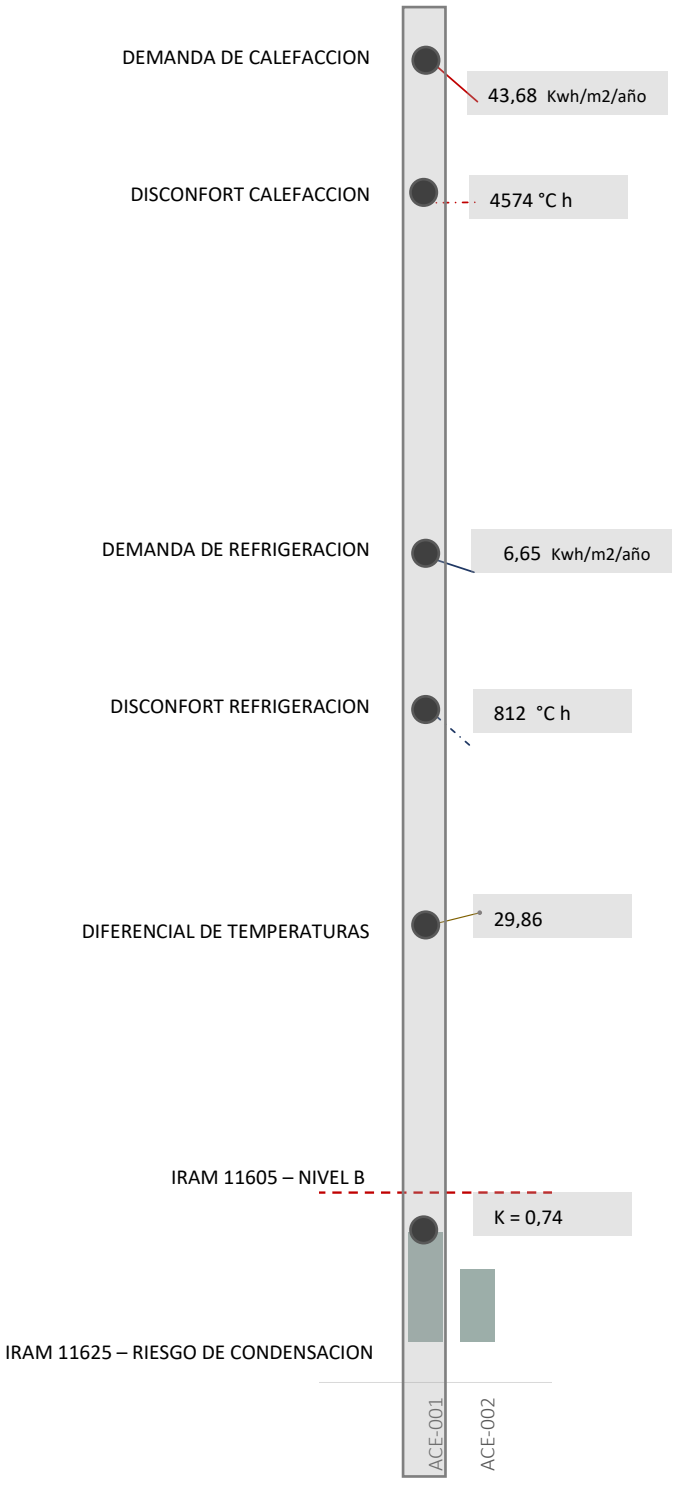



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **232,91** | kWh | 6,65 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.528,92** | kWh | 43,68 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.761,82** | kWh | **50,34** | kWh/m2/año |

| ACE-001 | MU | ACERO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 157 | N° 166 | N° 175 | N° 183 | N° 125 | N° 128 |

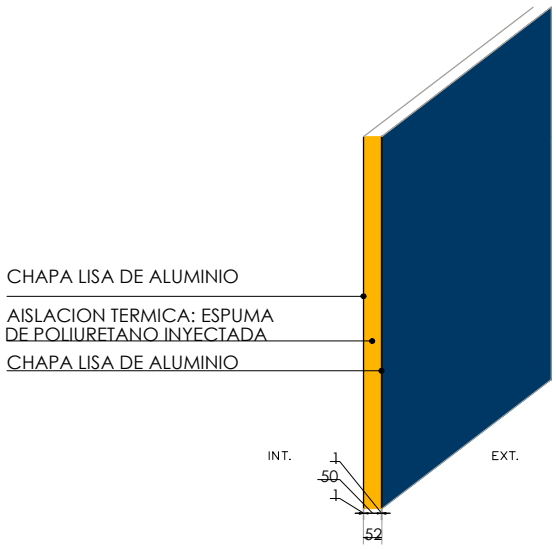



| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,62 | 0% | 30,31 | 40,43 | 5,43 | 4575 | 683 |
| INDIVIDUAL | 0,74 | 0% | 29,86 | 43,68 | 6,65 | 4574 | 812 |
| INC. FAMILIA | 120,33% | 0% | 98,53% | 108,04% | 122,47% | 99,99% | 118,89% |
| INC. MUNDIAL | 62,22% | 0% | 96,90% | 106,21% | 110,80% | 102,52% | 158,86% |

| ACE-002 | MU | ACERO |
|---|---|---|
| PANEL COMPUESTO DE ALUMINIO Y POLIURETANO | | |

## INDICE DE TRANSMITANCIA TERMICA "K"

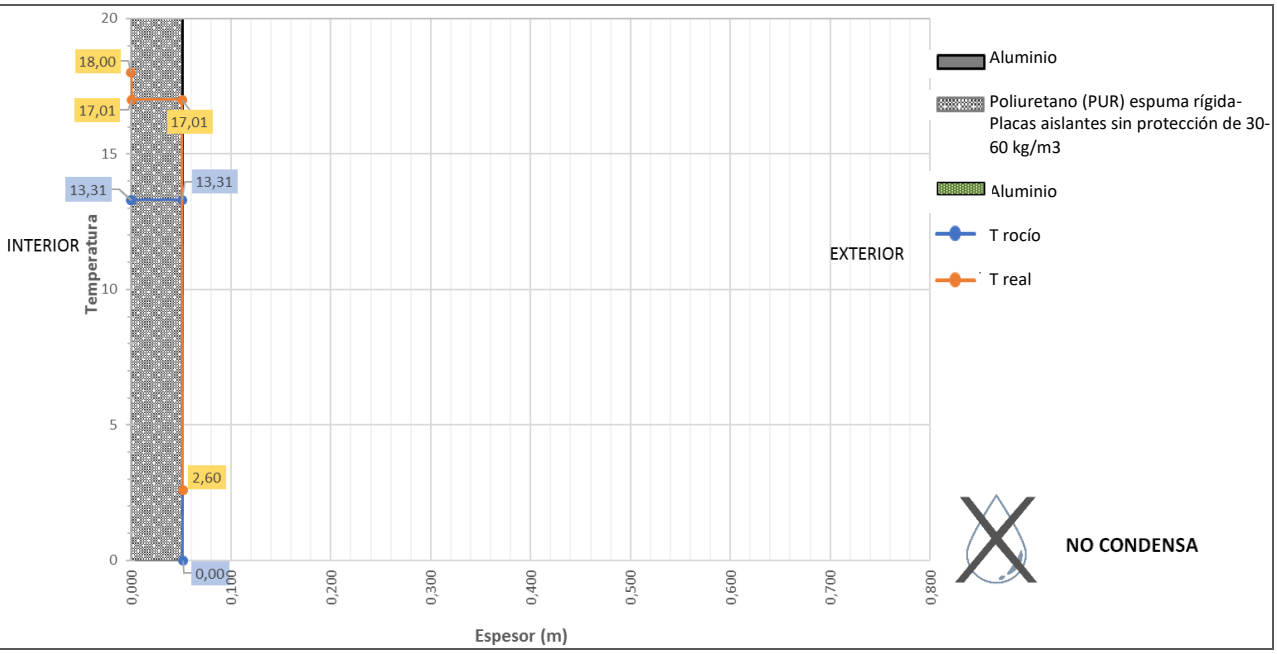
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,49 | 0,49 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



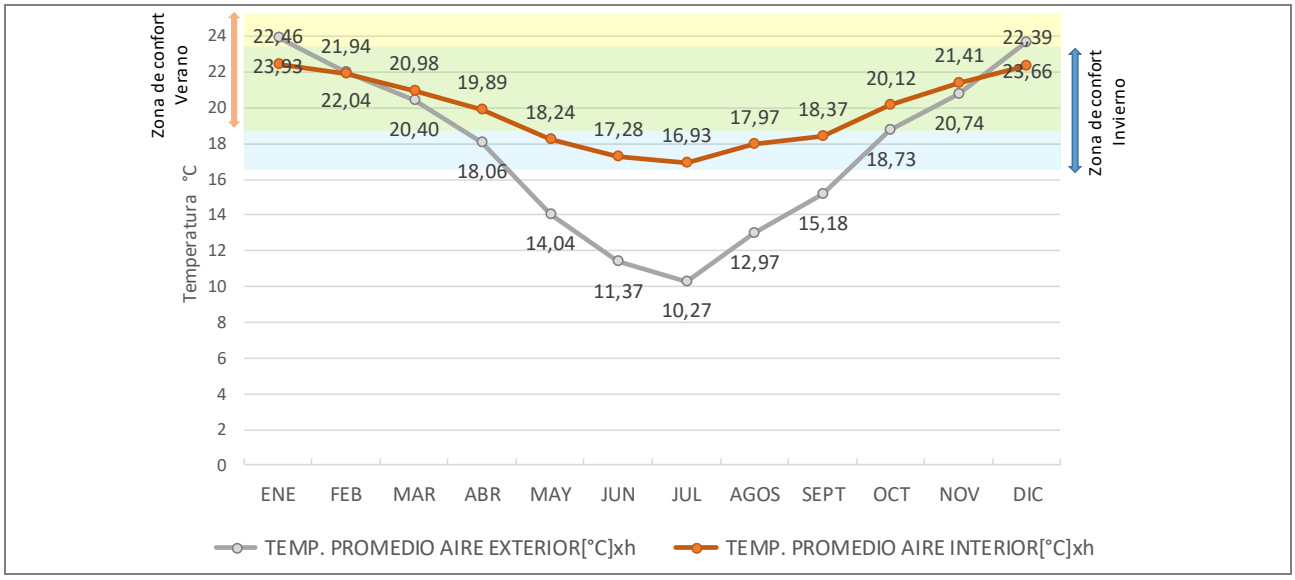

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 0,6 | Invierno 0,6 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **2,0** | **2,0** |
| | **Amortiguamiento:** | 0,470 | 0,470 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **1,8** | **1,7** |
| | **Amortiguamiento:** | 0,625 | 0,638 |

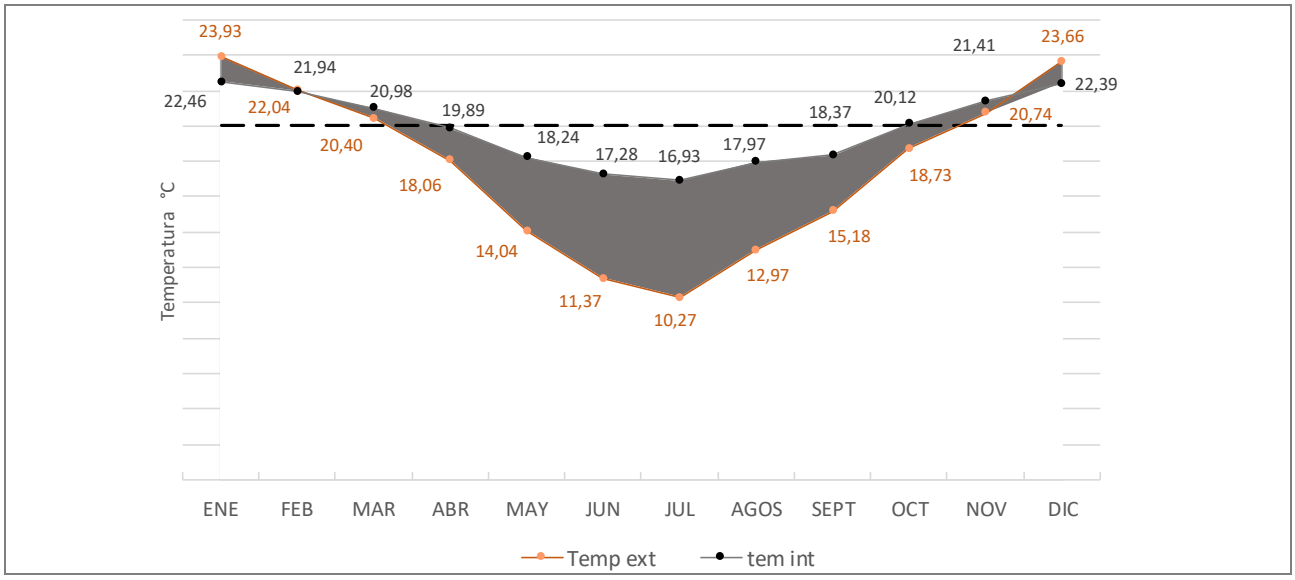
| ACE-002 | MU | ACERO |
|---|---|---|

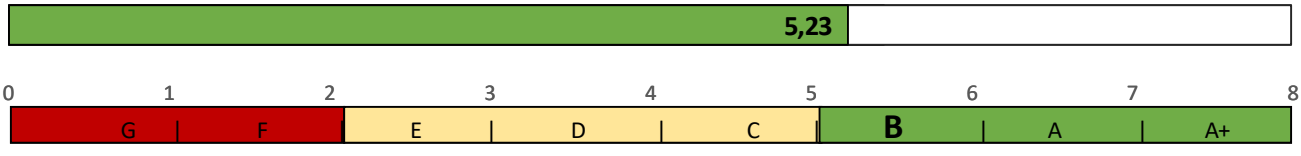
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 17:00 hs | **26,81** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **13,01** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



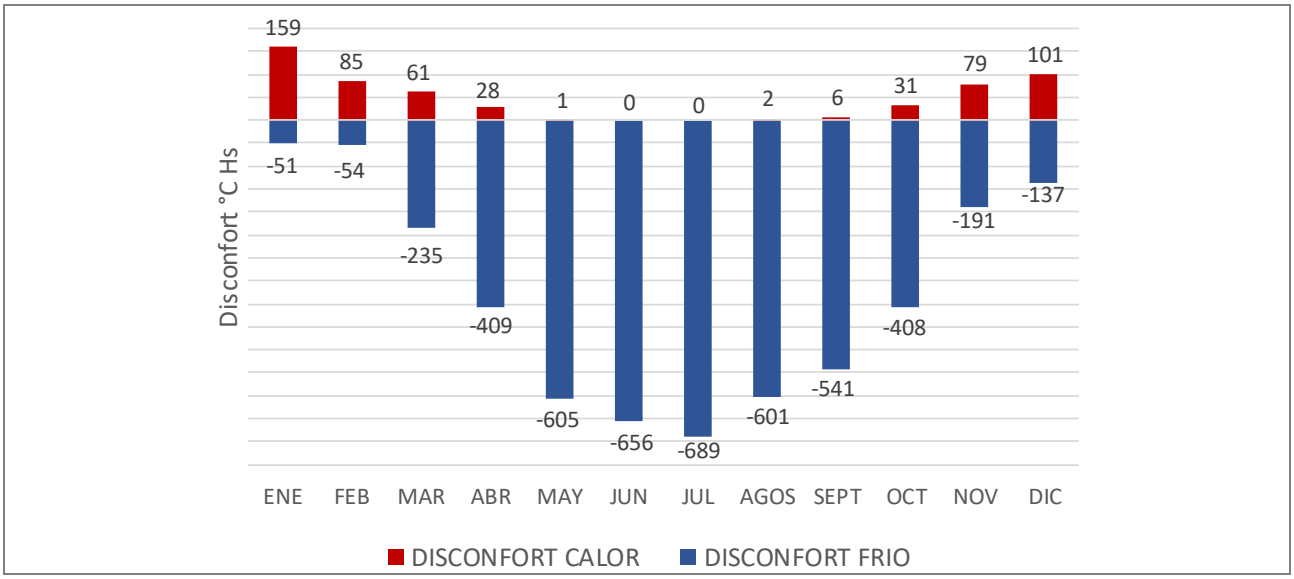




5,23 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| ACE-002 | MU | ACERO |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

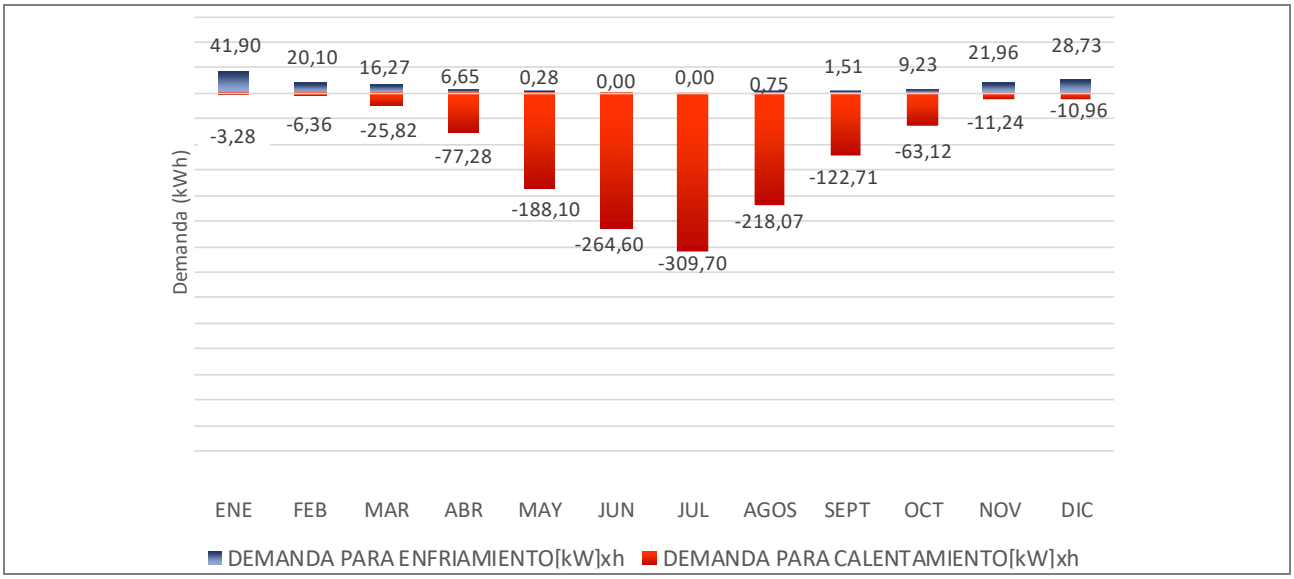
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **554** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.575** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.129** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **147,37** | kWh | 4,21 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.301,24** | kWh | 37,18 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.448,61** | kWh | **41,39** | kWh/m2/año |

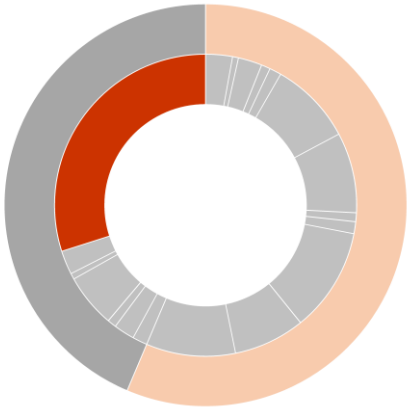
| ACE-002 | MU | ACERO |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 117 | N° 138 | N° 160 | N° 178 | N° 126 | N° 129 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,62 | 0% | 30,31 | 40,43 | 5,43 | 4575 | 683 |
| INDIVIDUAL | 0,49 | 0% | 30,75 | 37,18 | 4,21 | 4575,00 | 554,00 |
| INC. FAMILIA | 79,67% | 0% | 101,47% | 91,96% | 77,53% | 100,01% | 81,11% |
| INC. MUNDIAL | 41,20% | 0% | 99,79% | 90,41% | 70,15% | 102,54% | 108,38% |



# STEEL FRAME

**STL 001**: CHAPA SINUSOIDAL / PLACAS

**STL 002**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 70MM, HIDROFUGA Y BARRERA CORTA VAPOR.

**STL 003**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 004**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 70MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 005**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 006**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 007**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 008**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 70MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 009**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 010**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 011**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG , HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 012**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 013**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 014**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 70MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 015**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 016**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 70MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 017**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 018**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 019**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 020**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 70MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 021**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 022**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 023**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG , HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 024**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 025**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 026**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 70MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 027**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 028**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 029**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG , HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 030**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 031**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 032**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 70MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 033**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 034**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 70MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 035**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 036**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 037**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 038**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 70MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 039**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 040**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3/ EPS 20MM- DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 041**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG , HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 042**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 043**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 044**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 70MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 045**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 046**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 70MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 047**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 048**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 049**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 050**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KG / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 051**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 052**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 053**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 054**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 055**: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 056**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 70MM, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA

**STL 057**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

**STL 058**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 70MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

**STL 059**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

**STL 060**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

**STL 061**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

**STL 062**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 70MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

**STL 063**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

**STL 064**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

**STL 065**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

**STL 066**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

**STL 067**: SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

**STL 068**: ENTRAMADO ESTRUCTURAL DE ACERO CON ENCOFRADO PERDIDO DE CHAPA METALICA SINUSOIDAL, CON TERMINACION EXTERIOR EN BALDOSA CALCAREA CON HORMIGON DE PENDIENTE Y CARPETA NIVELADORA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 069**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 80MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 070**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 071**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 80MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 072**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 073**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 074**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 075**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 80MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 076**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 077**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 80MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 078**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 079**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 080**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 081**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 80MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 082**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 083**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 80MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 084**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 085**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 086**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 087**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 80MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG. HIDROFUGA Y BARRERA

**STL 088**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 089**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 80MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 090**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

**STL 091**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJA PLASTICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR

**STL 092**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR

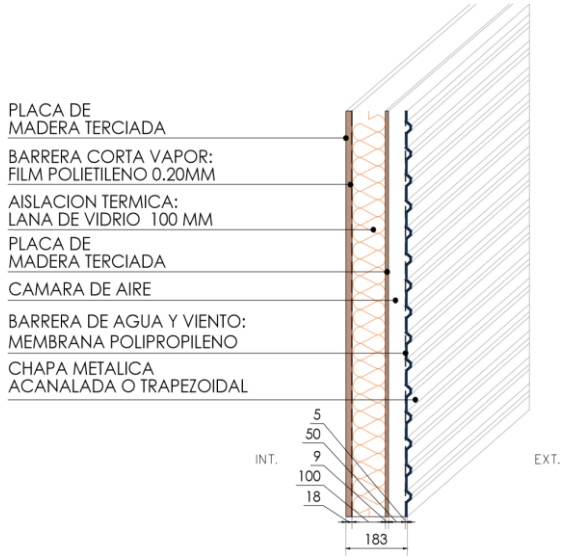
**STL 093**: ENTRAMADO ESTRUCTURAL DE ACERO CON ENCOFRADO PERDIDO DE CHAPA METALICA SINUSOIDAL, CON TERMINACION SUPERIOR CON SOLADOS CON CONTRAPISO DE HORMIGON LIVIANO Y CARPETA NIVELADORA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE.

**STL 094**: ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION SUPERIOR CON SOLADOS CON CARPETA NIVELADORA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE Y MULTILAMINADO FENOLICO.

| STL-001 | MU | STEEL FRAME |
|---|---|---|
| CHAPA SINUSOIDAL / PLACAS | | |

## INDICE DE TRANSMITANCIA TERMICA "K"

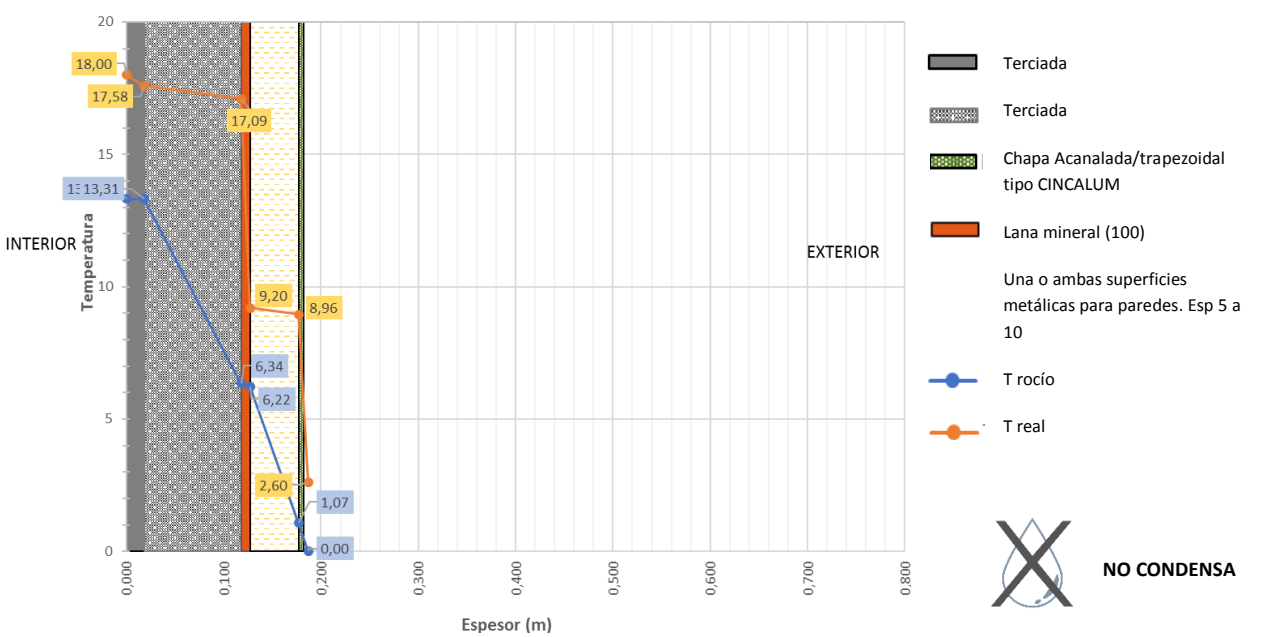
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,21 | 0,21 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



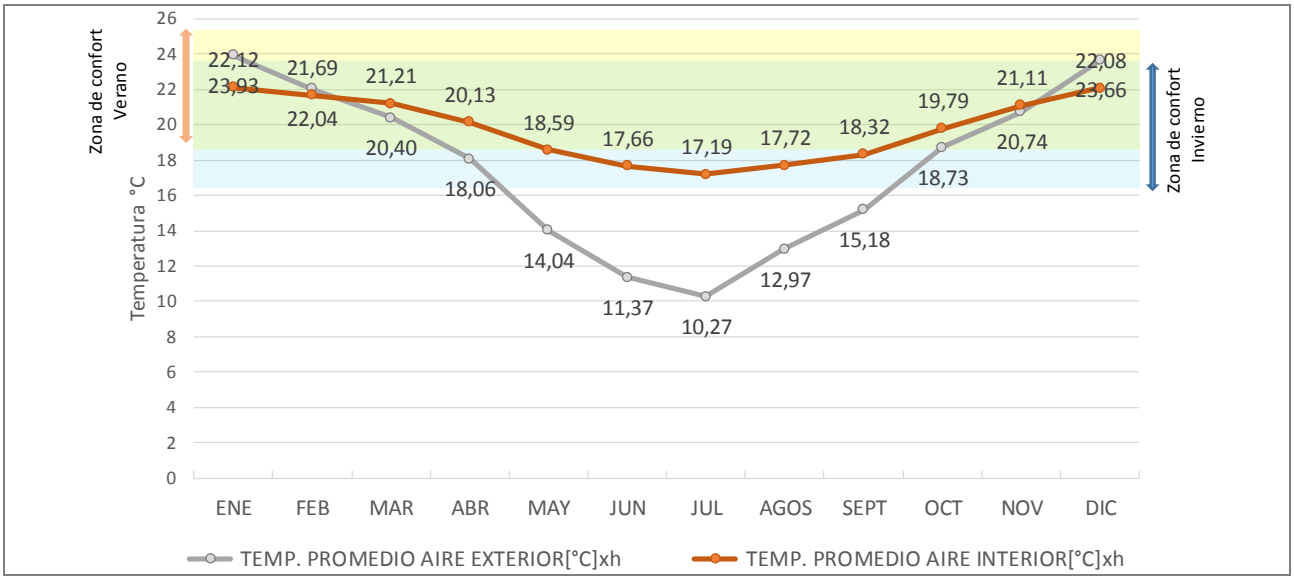

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 21,1 | Invierno 25,9 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **29,1** | **32,2** |
| | **Amortiguamiento:** | 0,000 | 0,000 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **17,3** | **26,4** |
| | **Amortiguamiento:** | 0,011 | 0,001 |

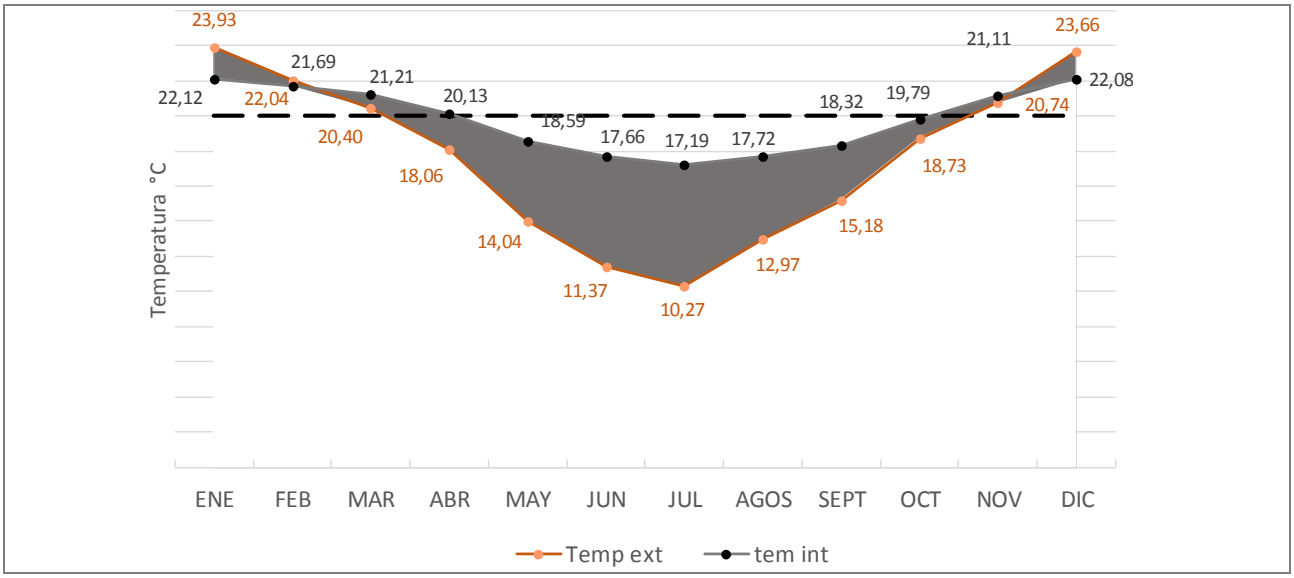
| STL-001 | MU | STEEL FRAME |
|---|---|---|

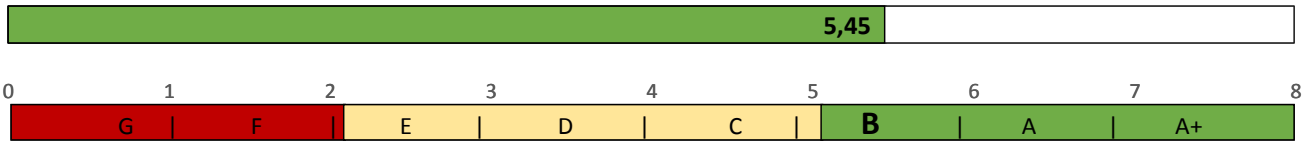
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 14/01 16:00 hs | **23,90** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 07:00 hs | **15,67** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



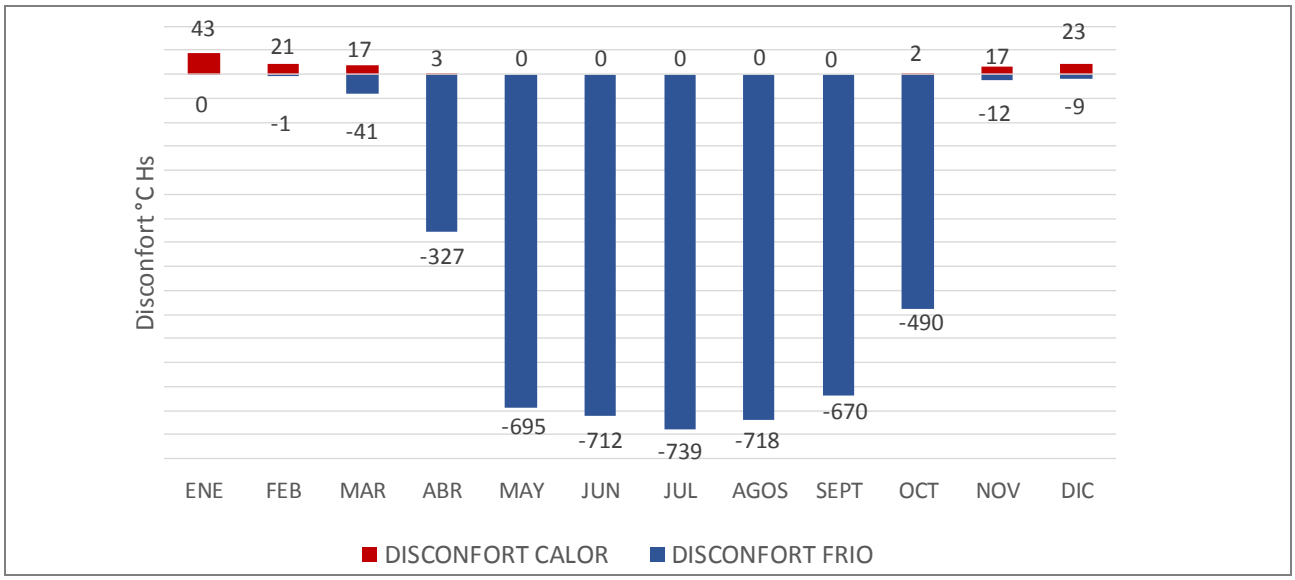




5,45 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,68

| STL-001 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

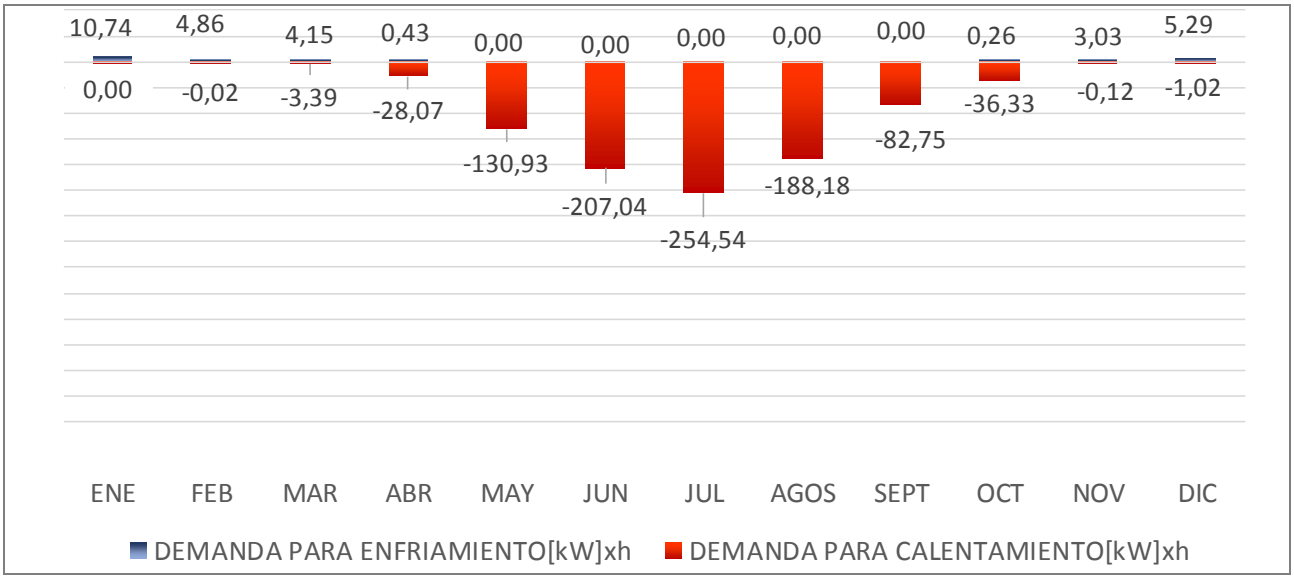
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **126** | °C Hs | 1% |
| HORAS DE DISCONFORT POR FRÍO | **4.414** | °C Hs | 50% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.540** | **°C Hs** | **52%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

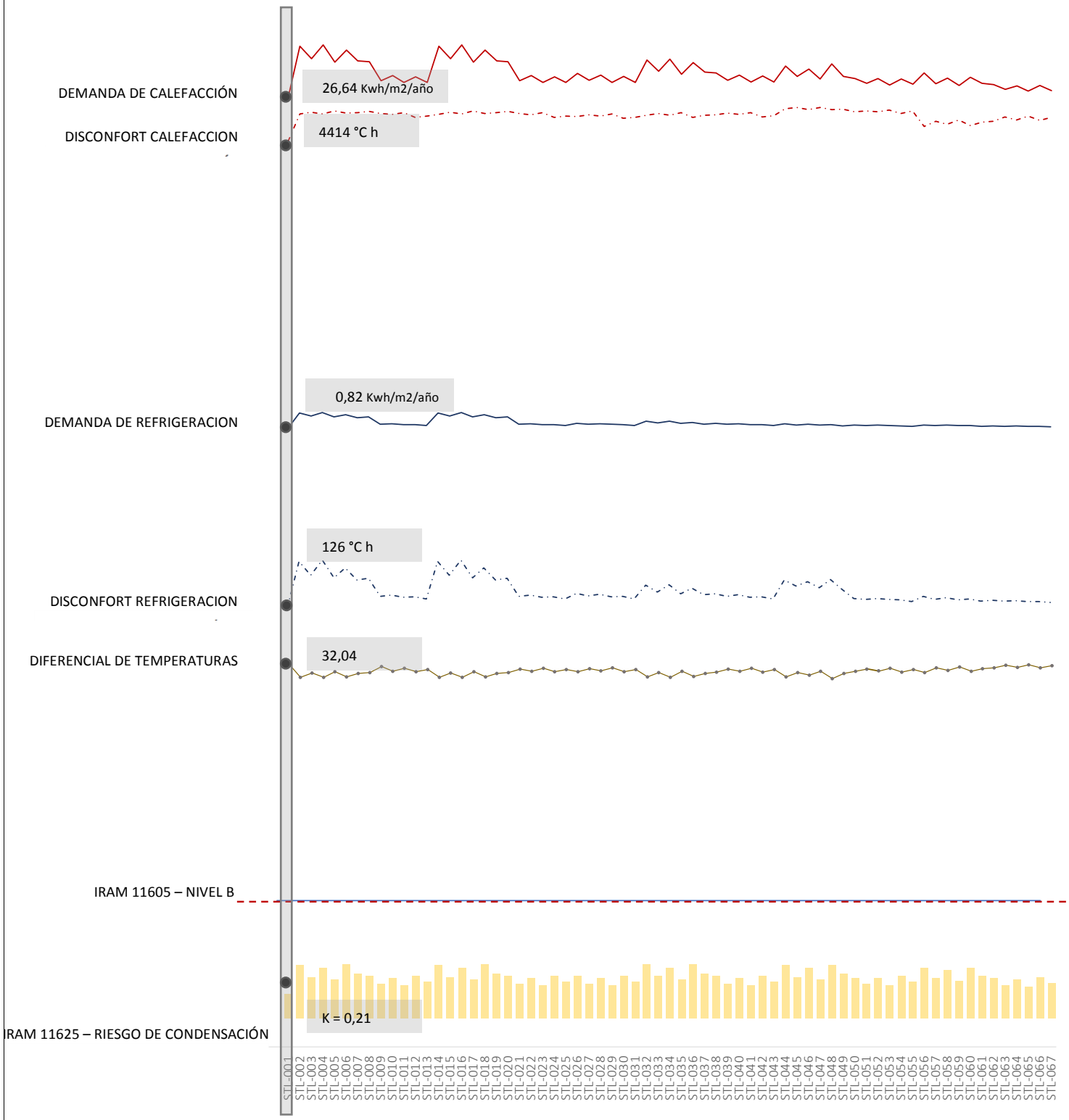



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **28,77** | kWh | 0,82 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **932,39** | kWh | 26,64 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **961,16** | kWh | **27,46** | kWh/m2/año |

| STL-001 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 002 | N° 008 | N° 003 | N° 005 | N° 011 | N° 004 |



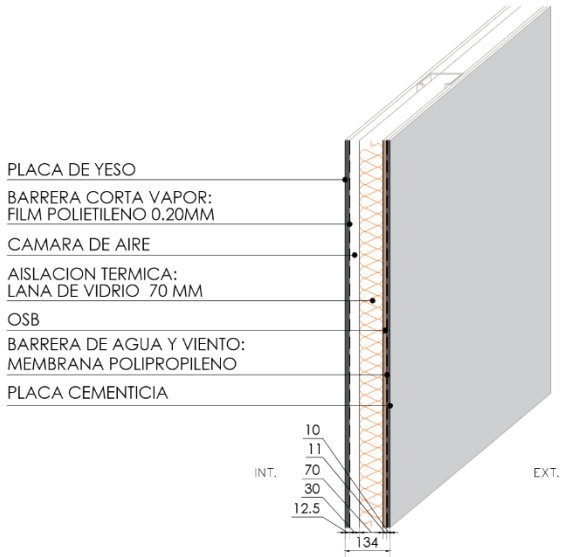

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,21 | 0% | 32,04 | 26,64 | 0,82 | 4414 | 126 |
| INC. FAMILIA | 59,47% | 0% | 102,30% | 83,61% | 32,75% | 96,08% | 44,76% |
| INC. MUNDIAL | 17,66% | 0% | 103,98% | 64,78% | 13,66% | 98,93% | 24,65% |

| STL-002 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 70MM, HIDROFUGA Y BARRERA CORTA VAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

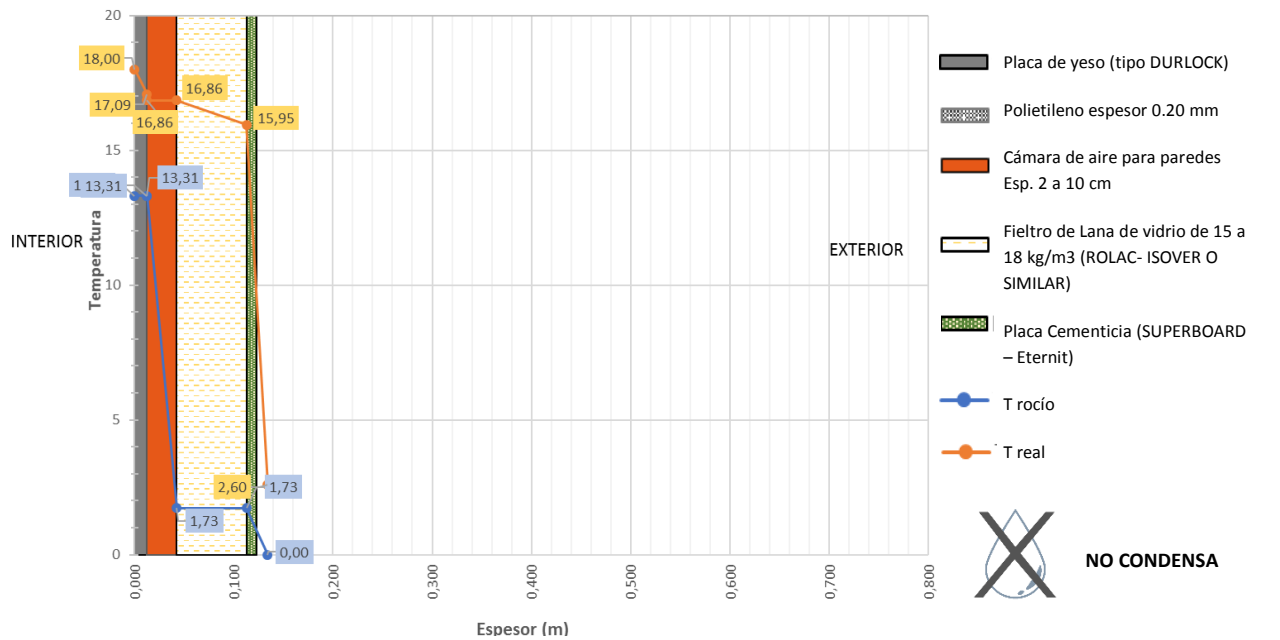
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,45 | 0,45 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



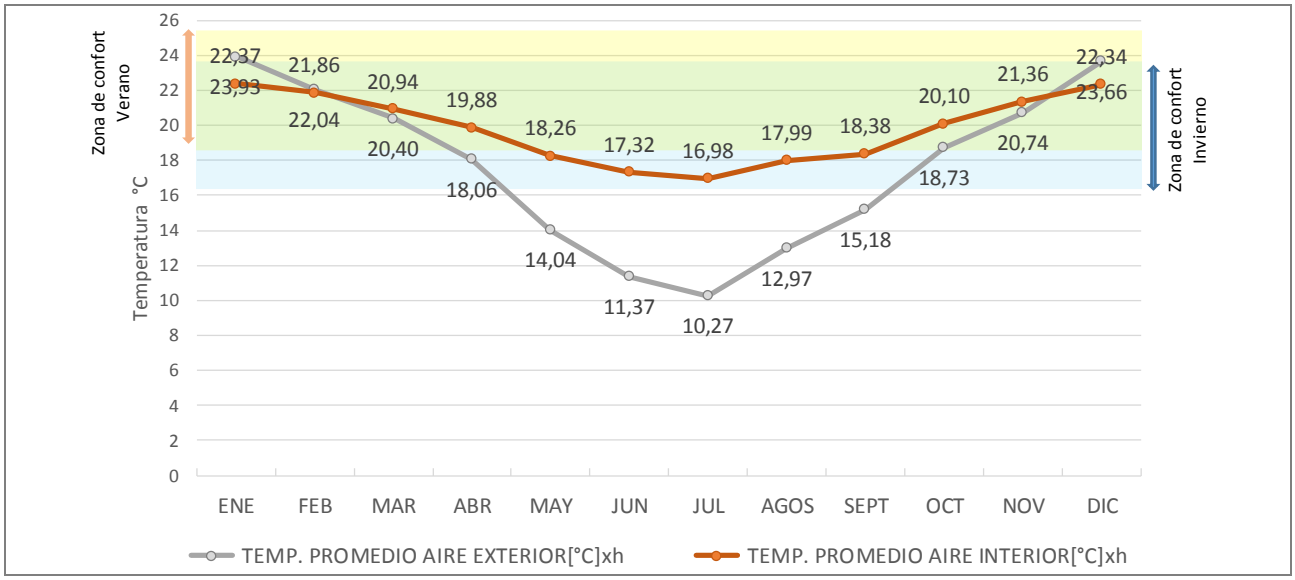

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,1 | 2,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,9** | **4,8** |
| | **Amortiguamiento:** | 0,161 | 0,171 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,9** | **3,4** |
| | **Amortiguamiento:** | 0,278 | 0,407 |

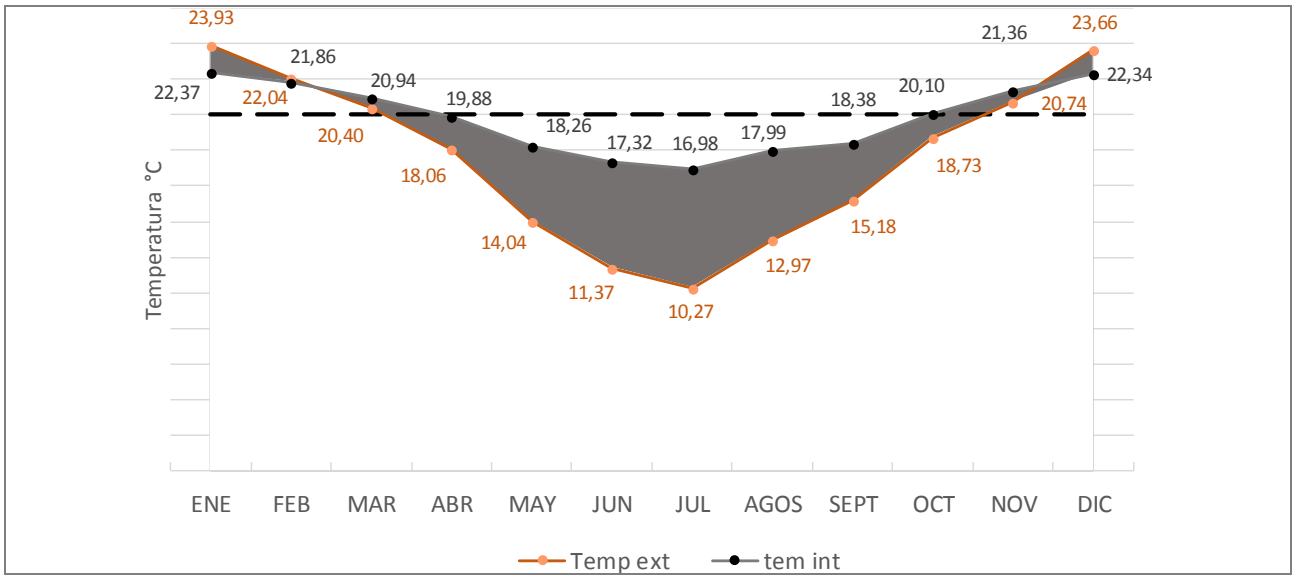
| STL-002 | MU | STEEL FRAME |
|---|---|---|

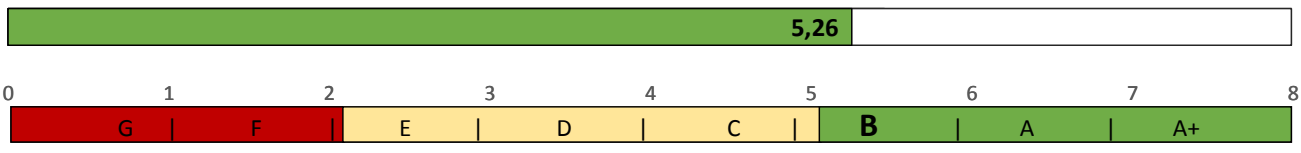
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,53** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,27** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



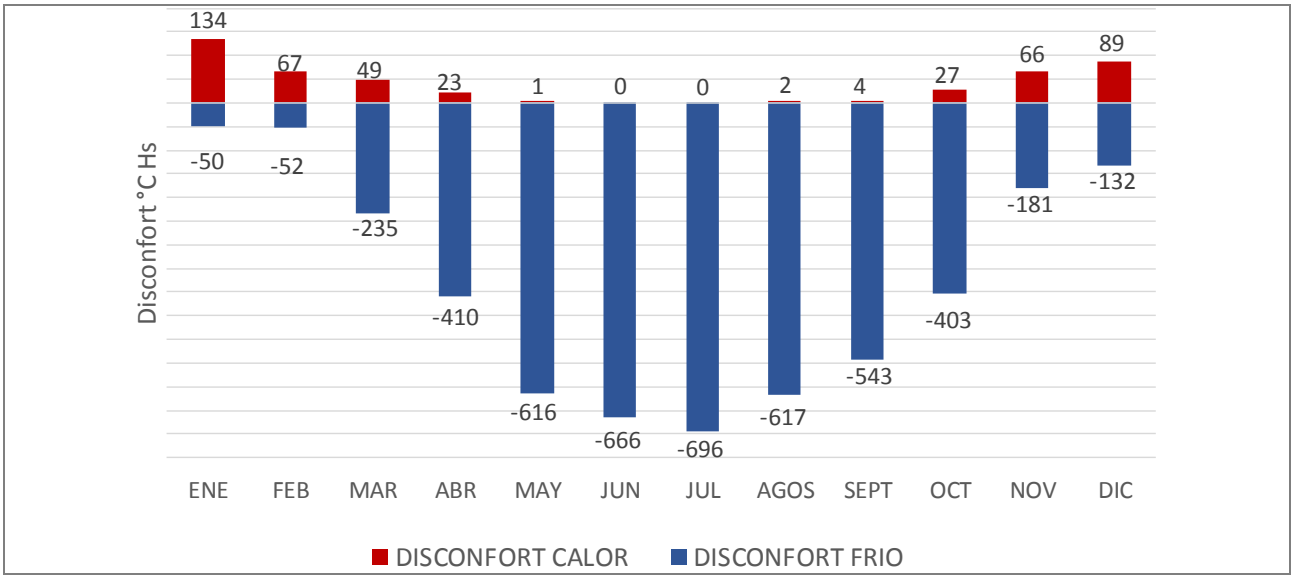




5,26 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-002 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

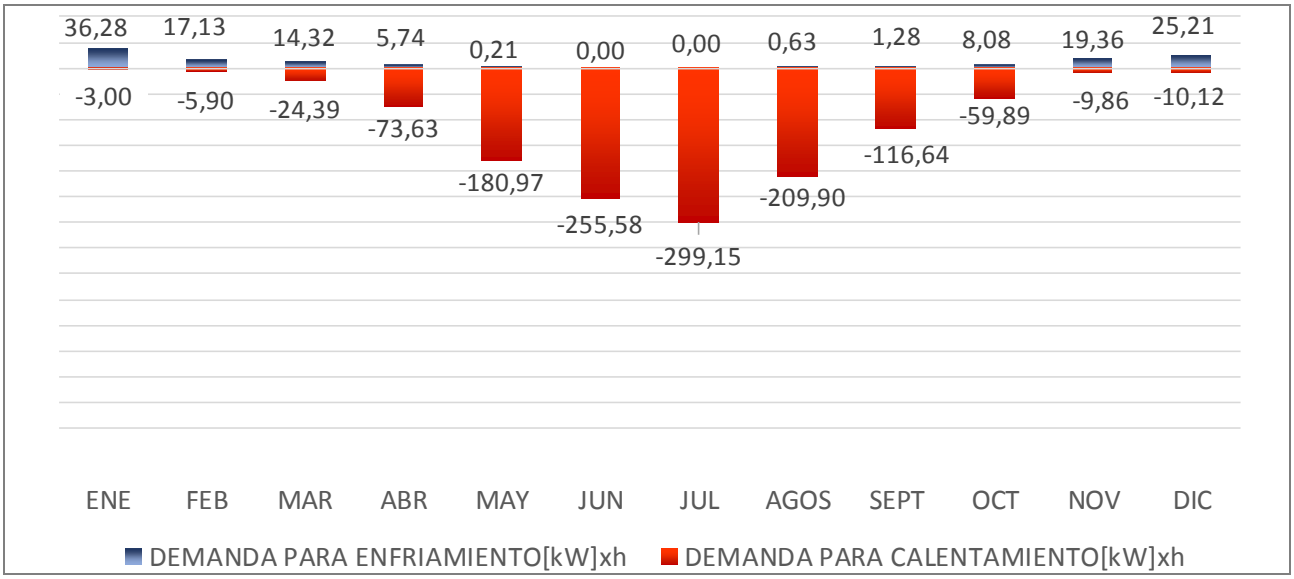
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **464** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.599** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.063** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

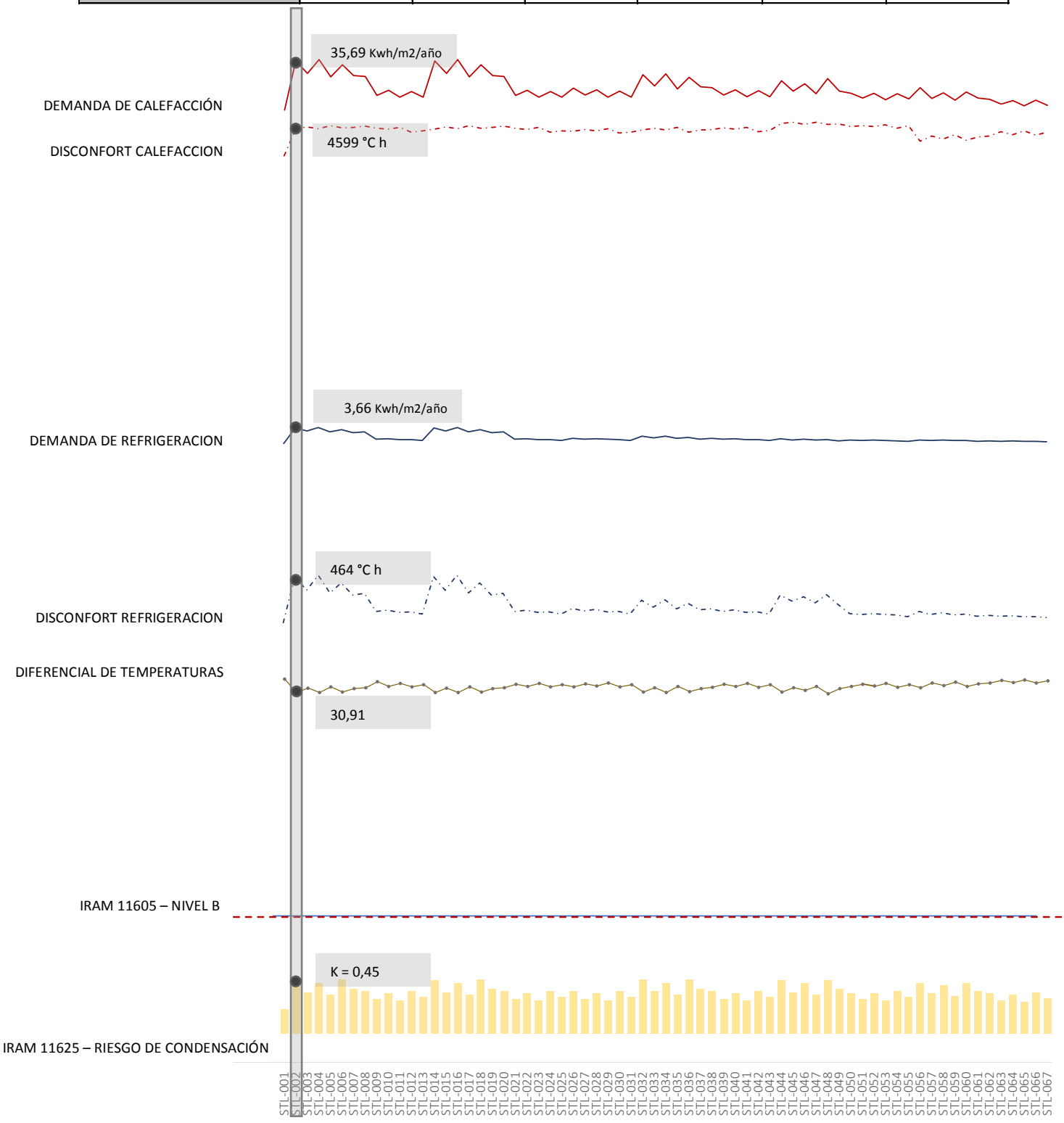



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **128,26** | kWh | 3,66 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.249,02** | kWh | 35,69 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.377,28** | kWh | **39,35** | kWh/m2/año |

| STL-002 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 094 | N° 122 | N° 154 | N° 175 | N° 155 | N° 170 |



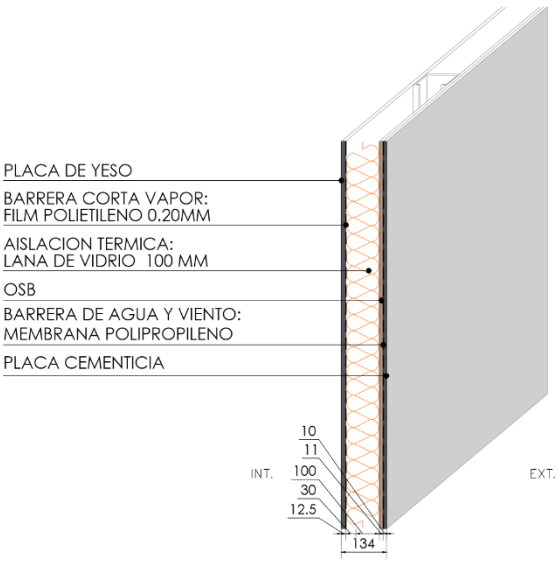

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,45 | 0% | 30,91 | 35,69 | 3,66 | 4599 | 464 |
| INC. FAMILIA | 127,43% | 0% | 98,69% | 112,01% | 146,17% | 100,10% | 164,84% |
| INC. MUNDIAL | 37,83% | 0% | 100,31% | 86,78% | 60,98% | 103,08% | 90,77% |

| STL-003 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

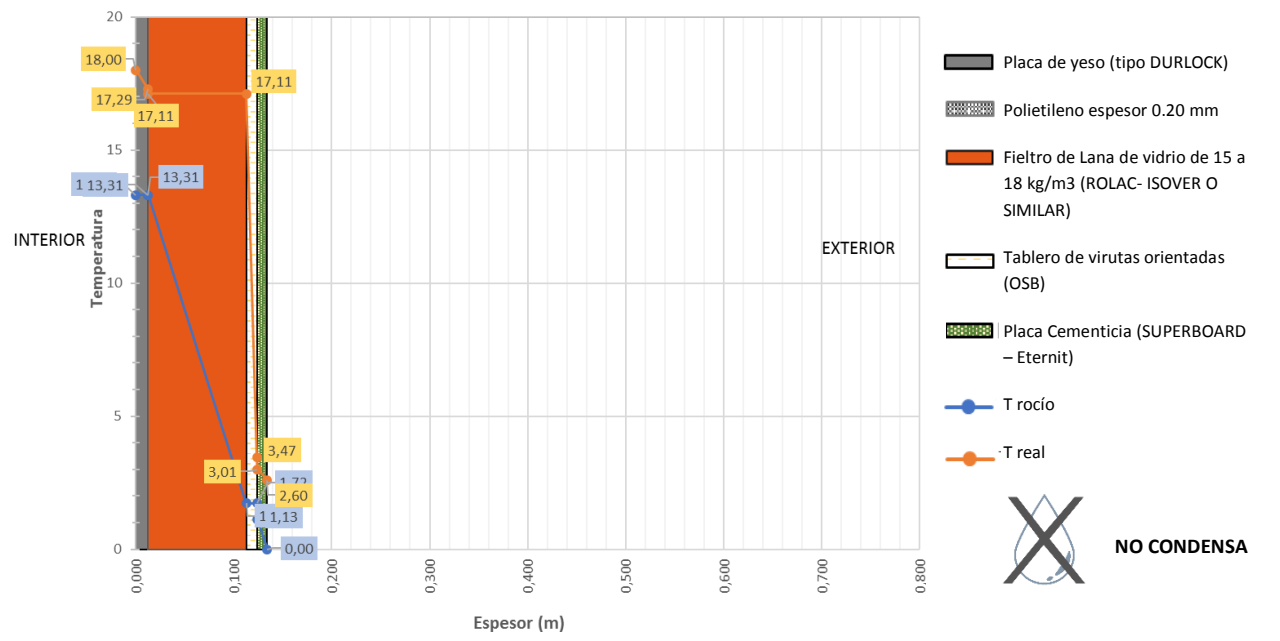
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,35 | 0,35 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



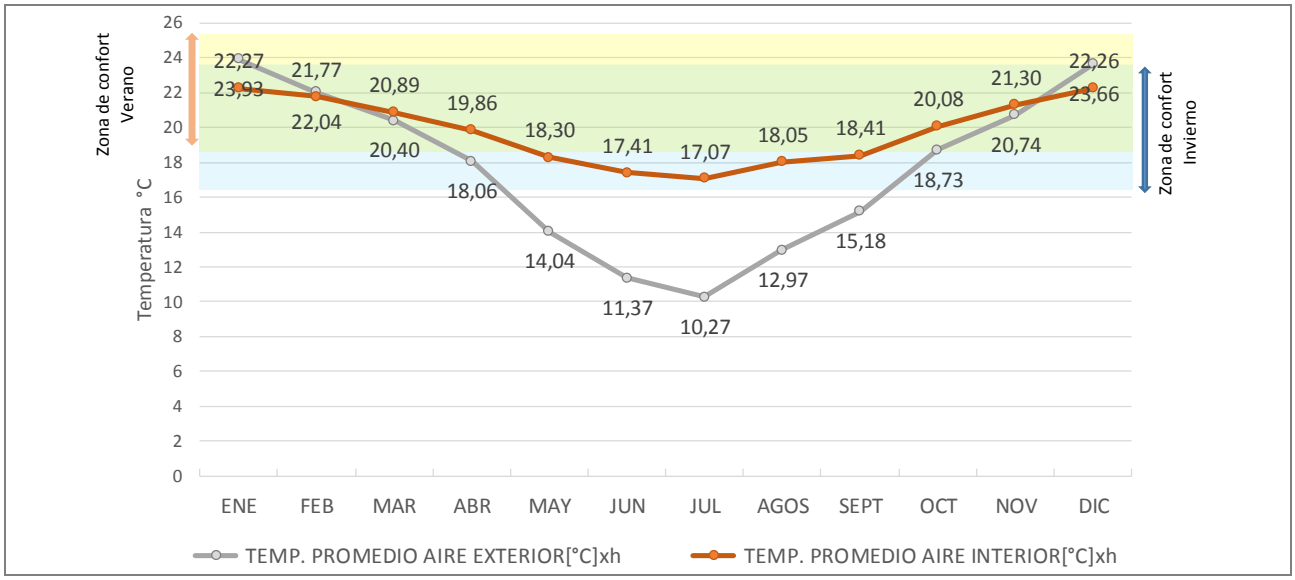

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,4 | 2,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,6** | **5,5** |
| | **Amortiguamiento:** | 0,124 | 0,133 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,5** | **3,9** |
| | **Amortiguamiento:** | 0,235 | 0,361 |

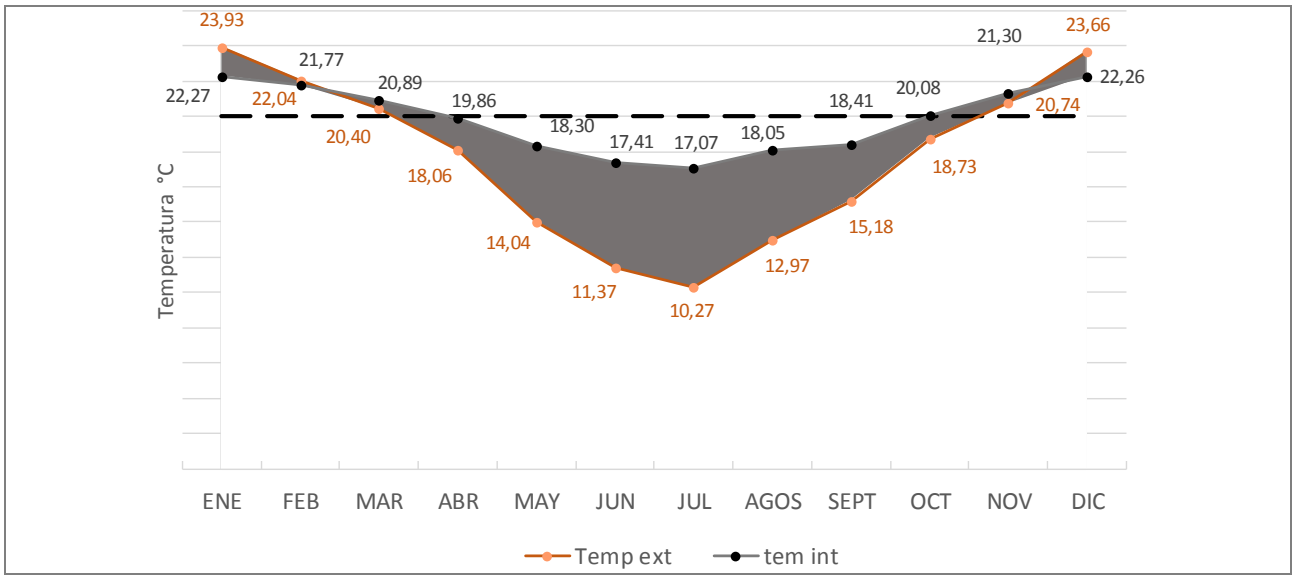
| STL-003 | MU | STEEL FRAME |
|---|---|---|

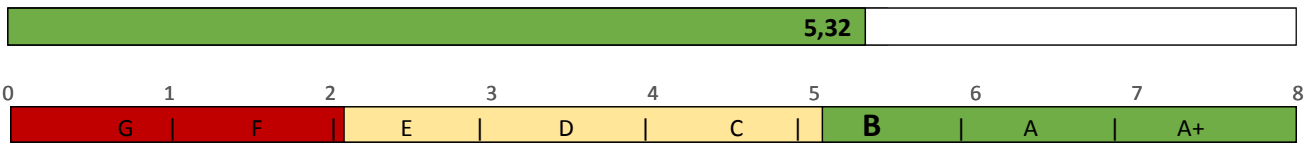
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,14** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,66** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



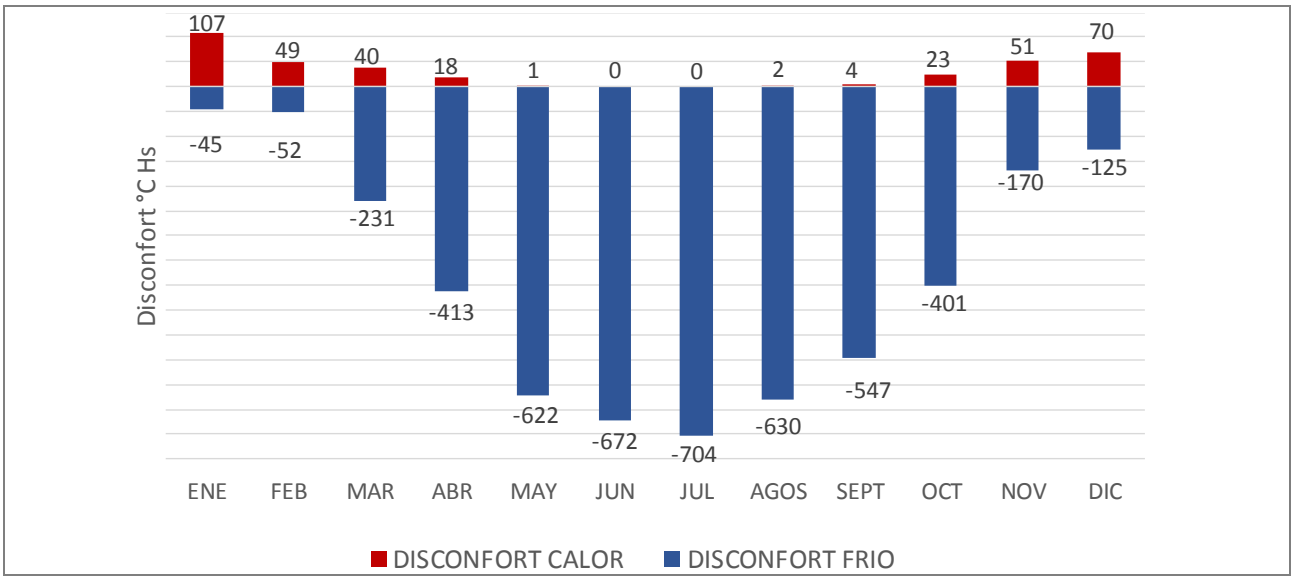




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-003 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

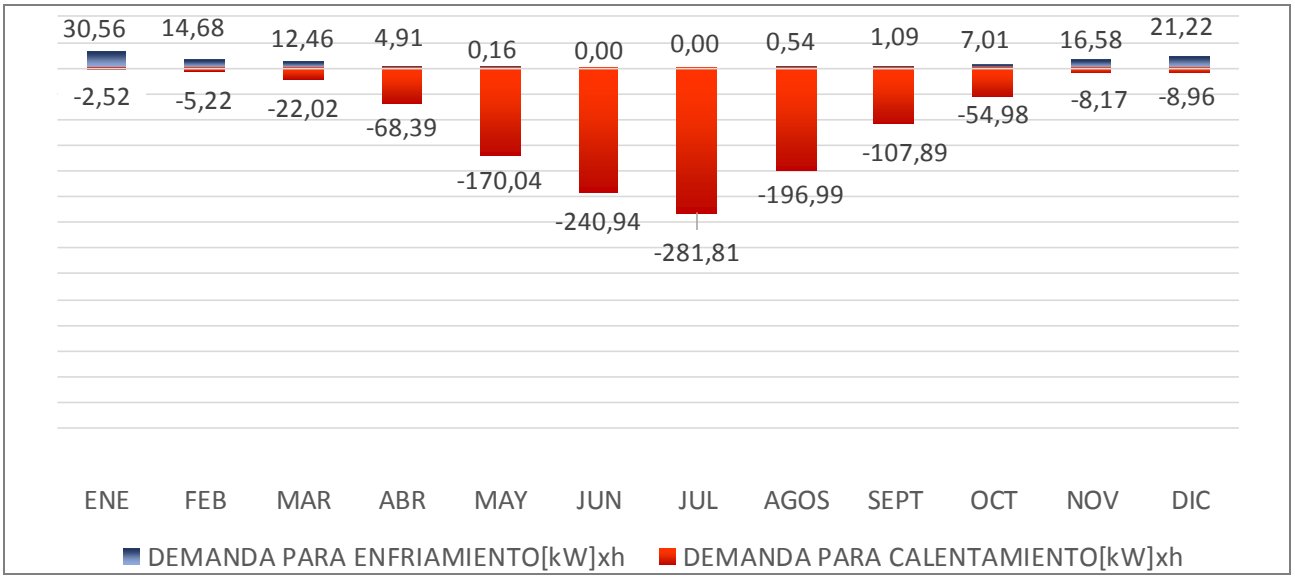
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **365** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.612** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4977** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

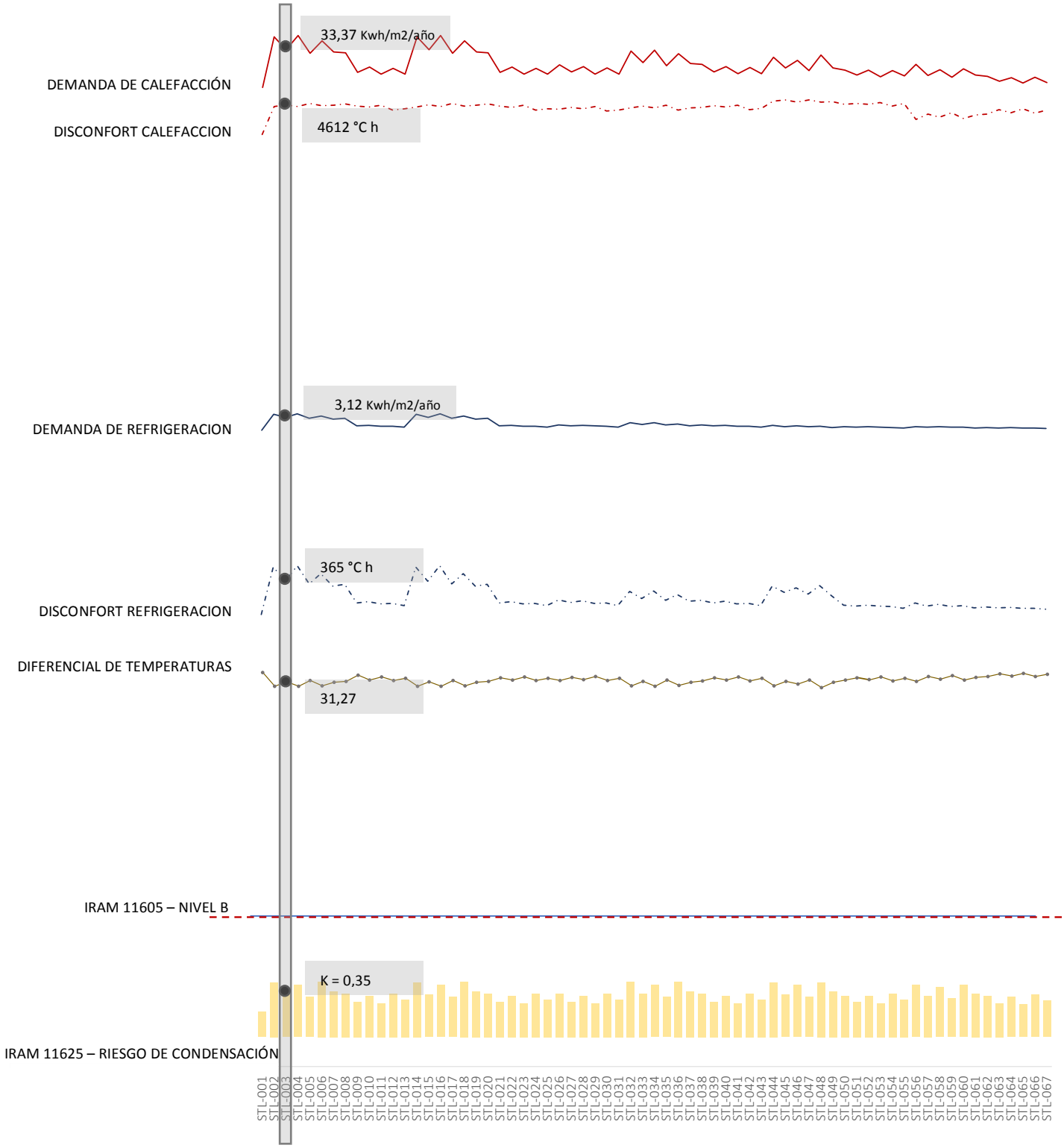



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **109,21** | kWh | 3,12 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.167,93** | kWh | 33,37 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.277,14** | kWh | **36,49** | kWh/m2/año |

| STL-003 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 045 | N° 080 | N° 140 | N° 169 | N° 172 | N° 159 |



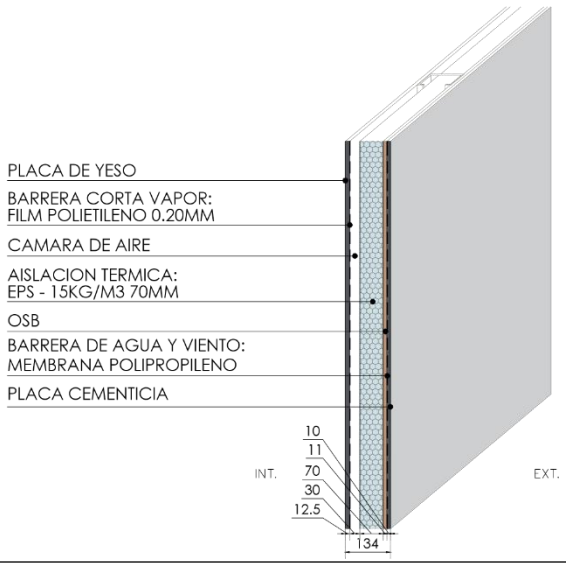

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,35 | 0% | 31,27 | 33,37 | 3,12 | 4612 | 365 |
| INC. FAMILIA | 99,11% | 0% | 99,84% | 104,73% | 124,61% | 100,39% | 129,67% |
| INC. MUNDIAL | 29,43% | 0% | 101,48% | 81,14% | 51,99% | 103,37% | 71,41% |

| STL-004 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 70MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

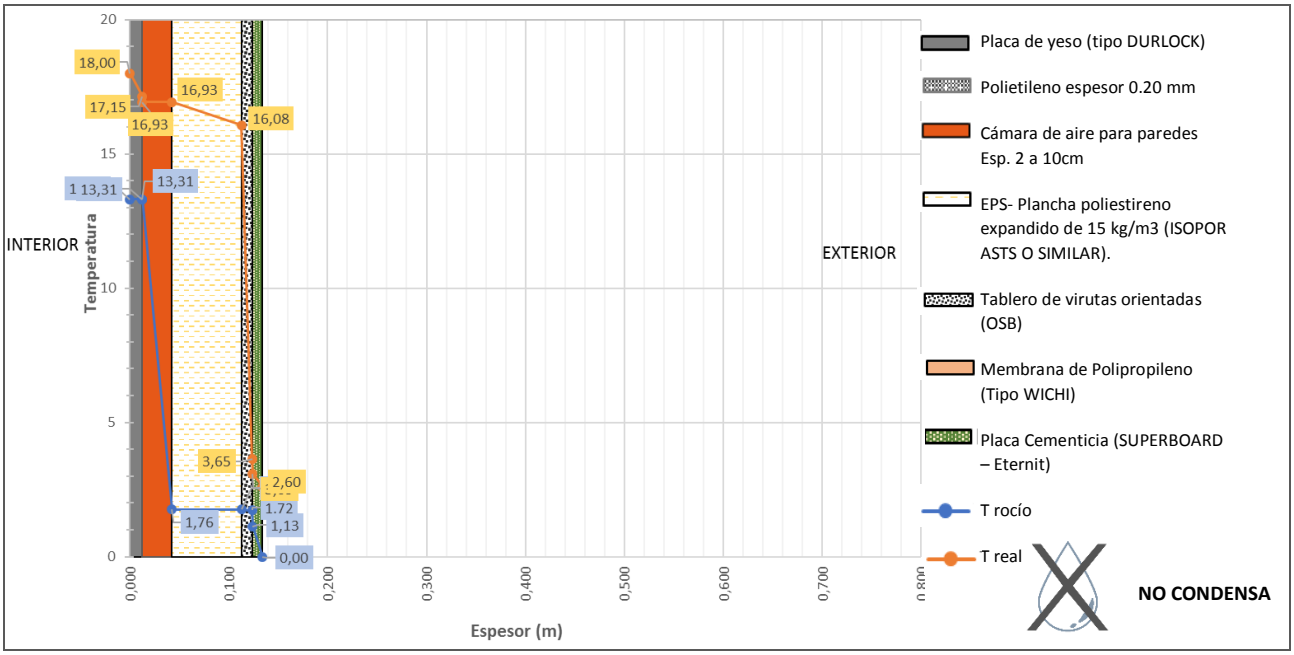
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,43 | 0,43 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



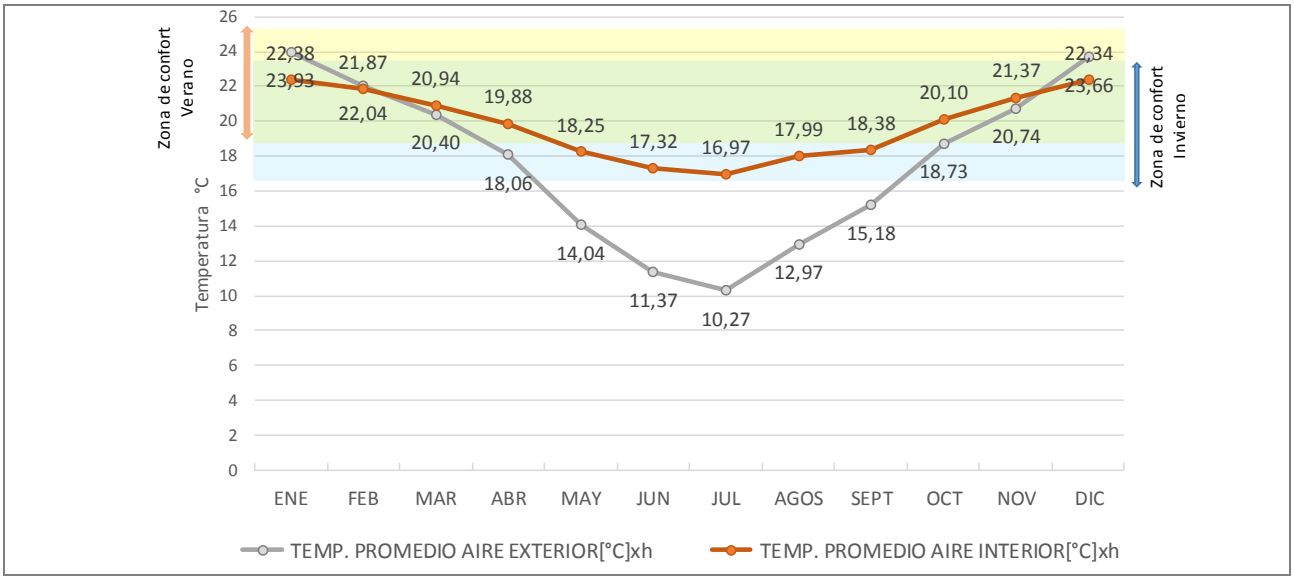

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,9 | 2,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,1** | **4,9** |
| | **Amortiguamiento:** | 0,151 | 0,161 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,0** | **3,5** |
| | **Amortiguamiento:** | 0,267 | 0,395 |

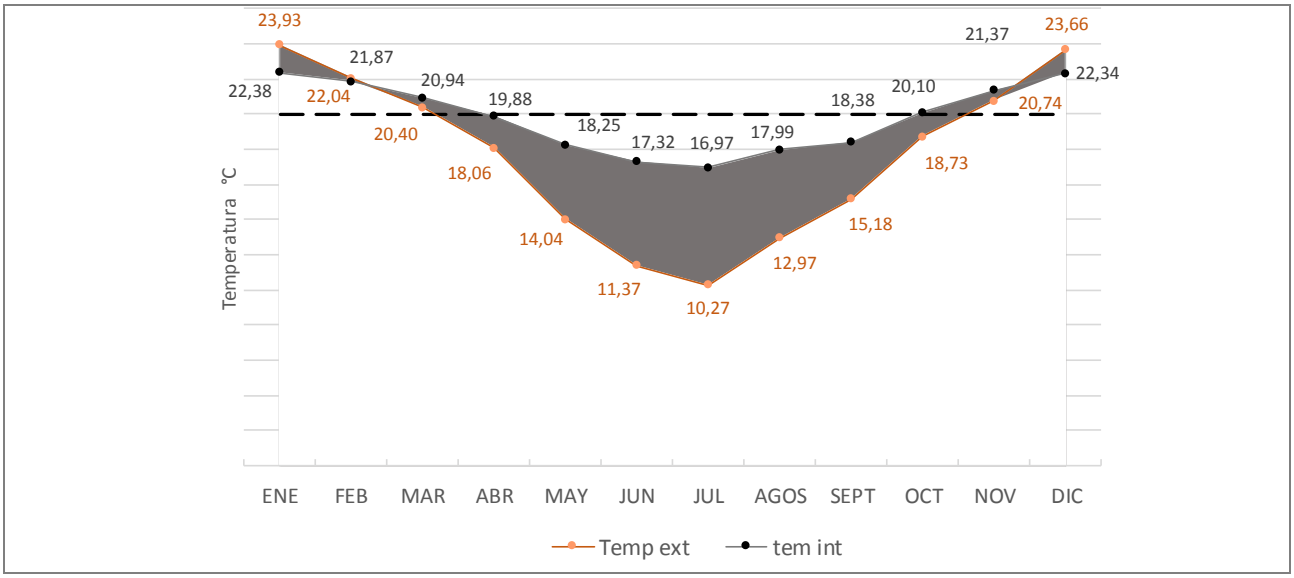
| STL-004 | MU | STEEL FRAME |
|---|---|---|

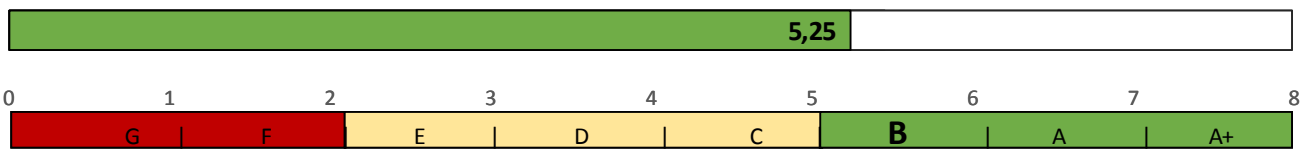
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,56** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,24** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



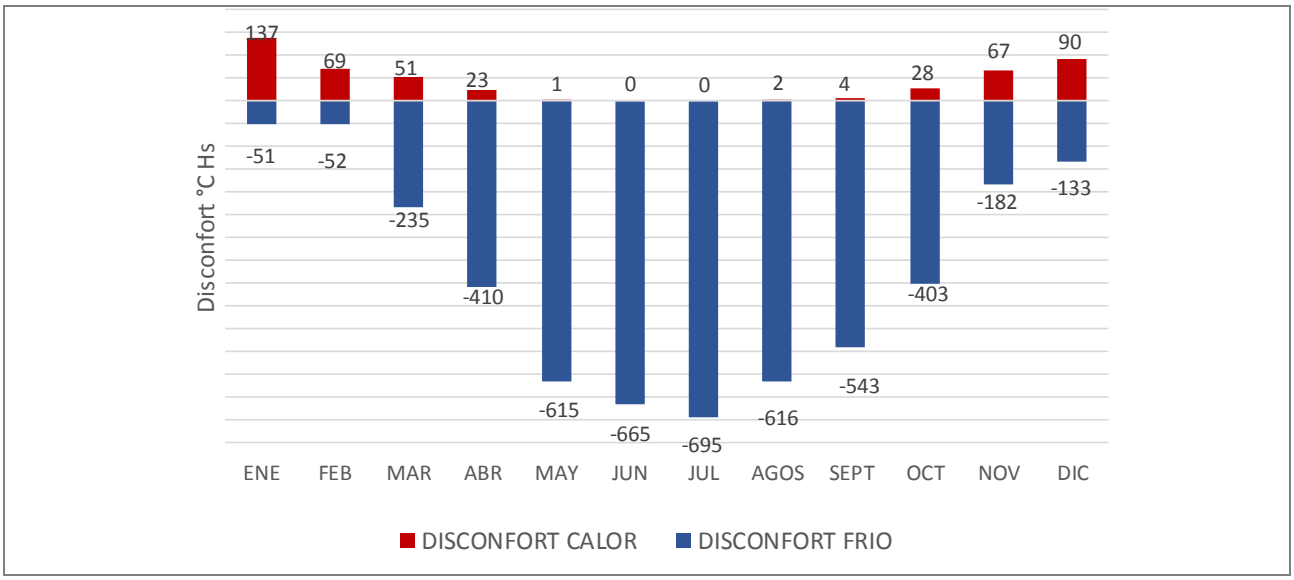




5,25 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-004 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

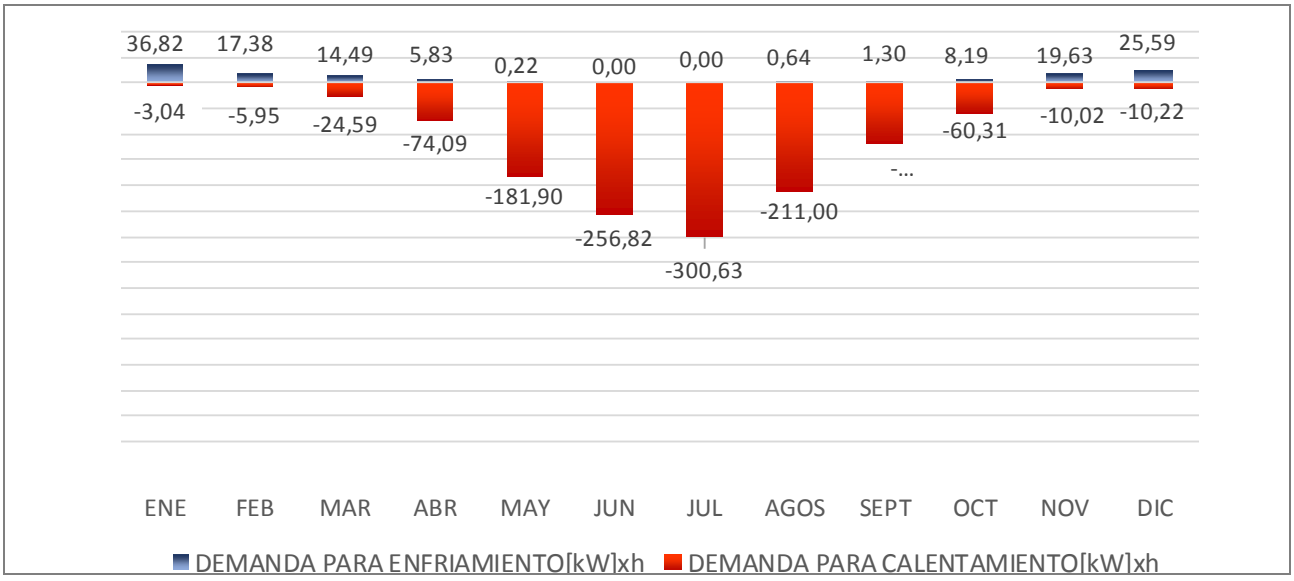
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **474** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.600** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.074** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

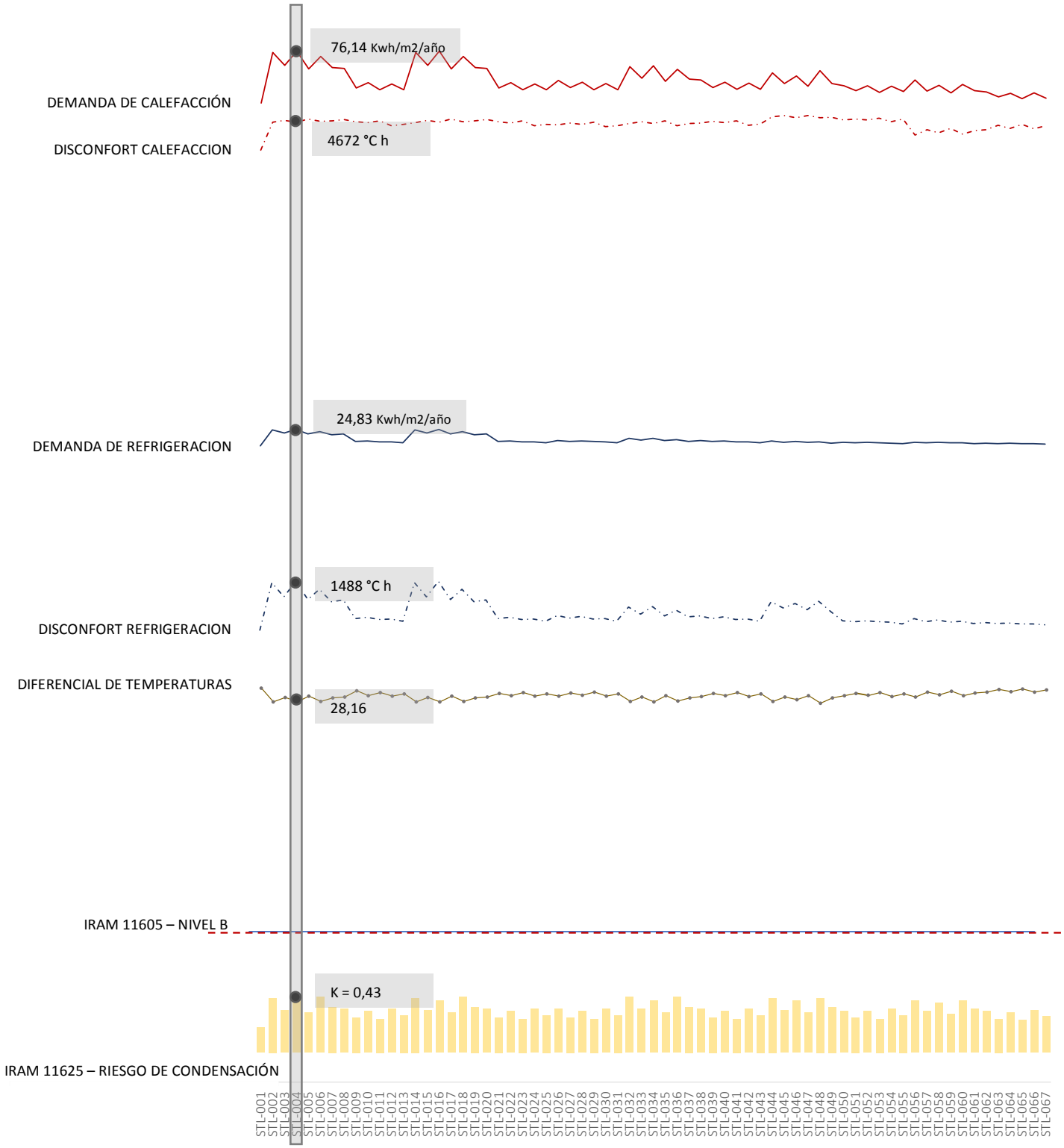



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **130,10** | kWh | 3,72 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.255,97** | kWh | 35,88 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.386,07** | kWh | **39,60** | kWh/m2/año |

| STL-004 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 083 | N° 191 | N° 192 | N° 189 | N° 196 | N° 190 |



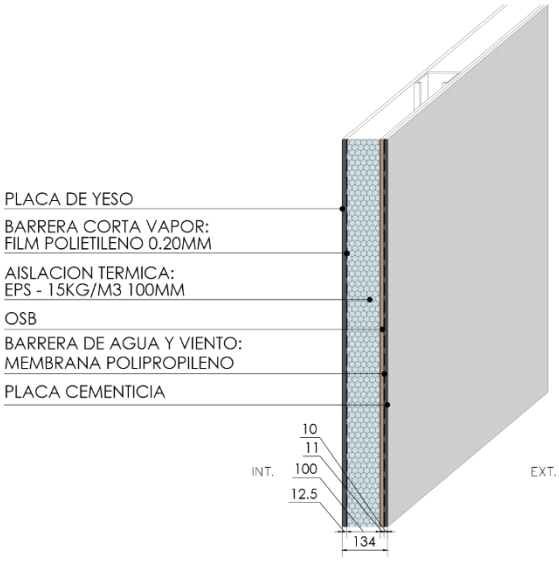

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,40 | 30,67 | 1,88 | 4592 | 251 |
| INDIVIDUAL | 0,43 | 0% | 30,88 | 35,88 | 3,72 | 4600 | 474 |
| INC. FAMILIA | 121,77% | 0% | 98,34% | 116,99% | 197,87% | 100,17% | 188,84% |
| INC. MUNDIAL | 36,15% | 0% | 100,21% | 87,24% | 61,98% | 103,10% | 92,73% |

| STL-005 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

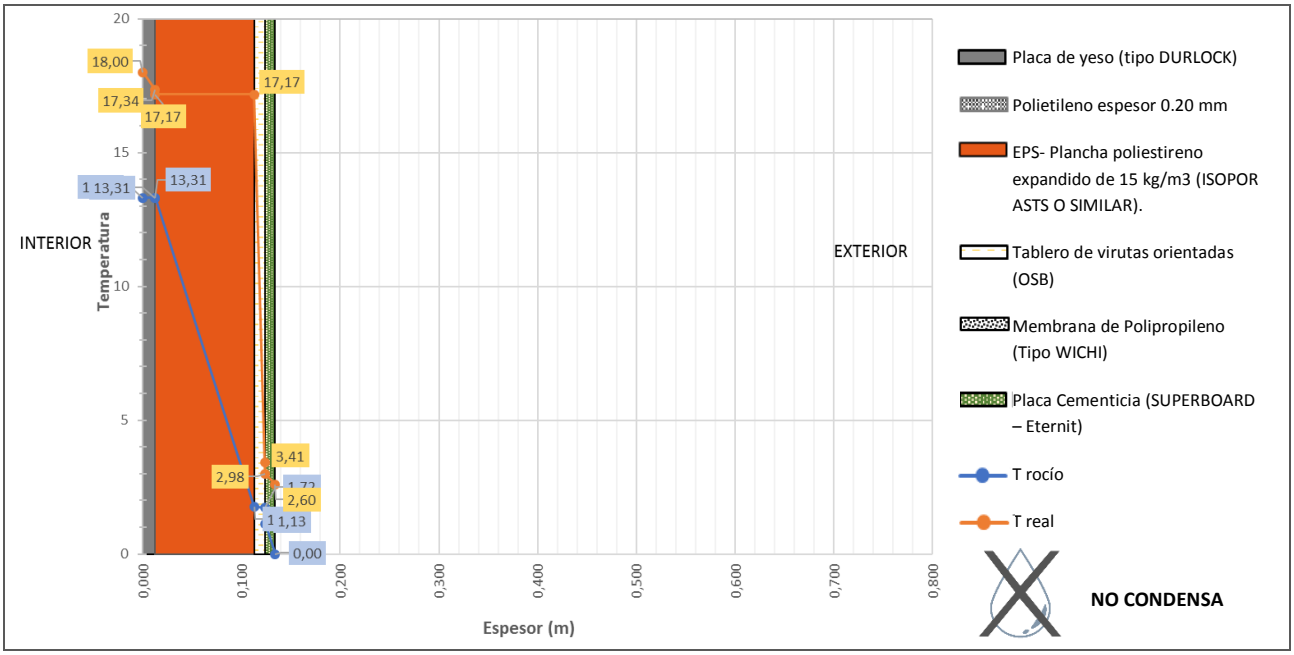
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,33 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



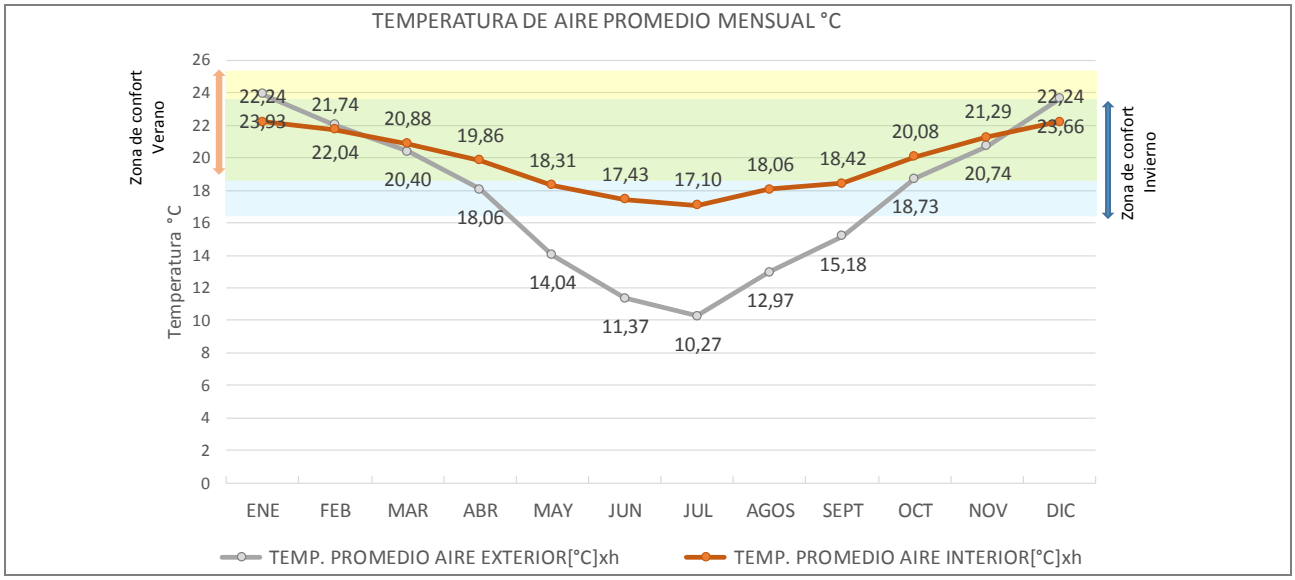

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,2 | 2,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,9** | **5,7** |
| | **Amortiguamiento:** | 0,115 | 0,123 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,7** | **4,0** |
| | **Amortiguamiento:** | 0,223 | 0,349 |

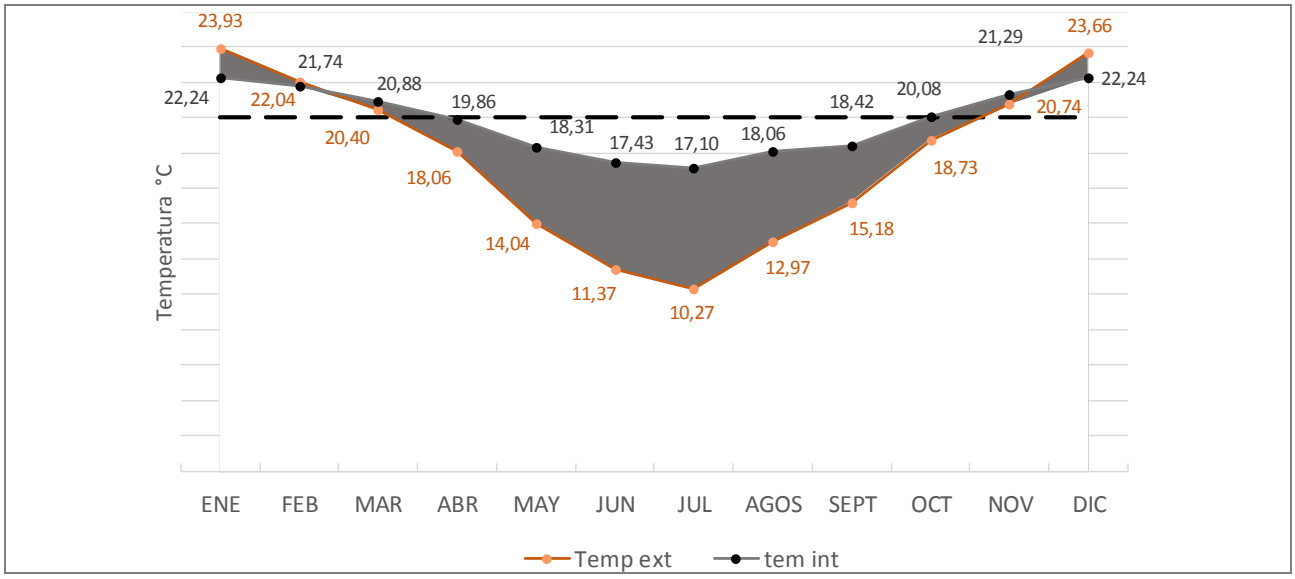
| STL-005 | MU | STEEL FRAME |
|---|---|---|

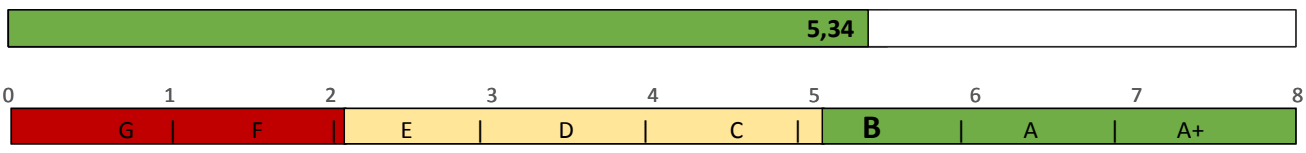
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,04** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,77** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



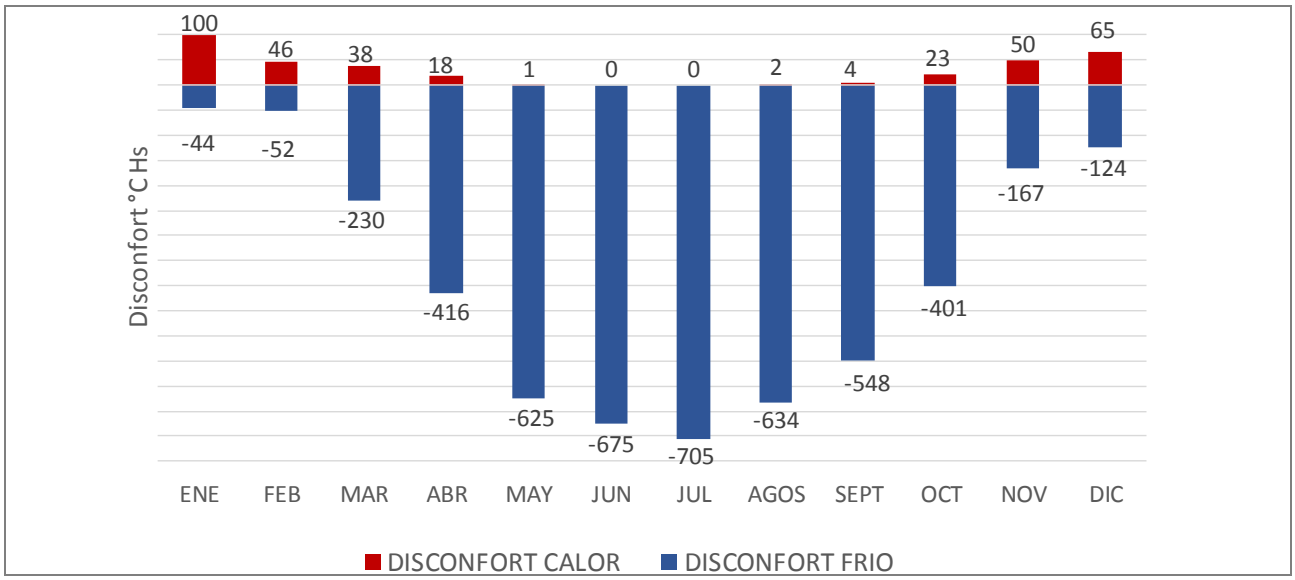




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-005 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

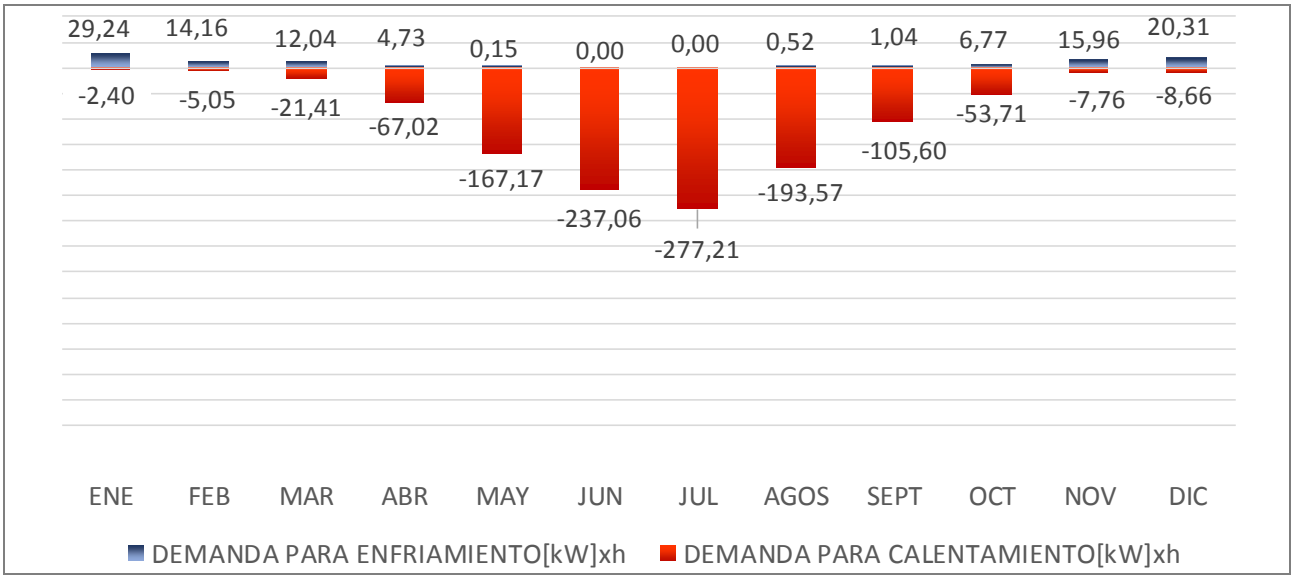
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **346** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.621** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.967** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

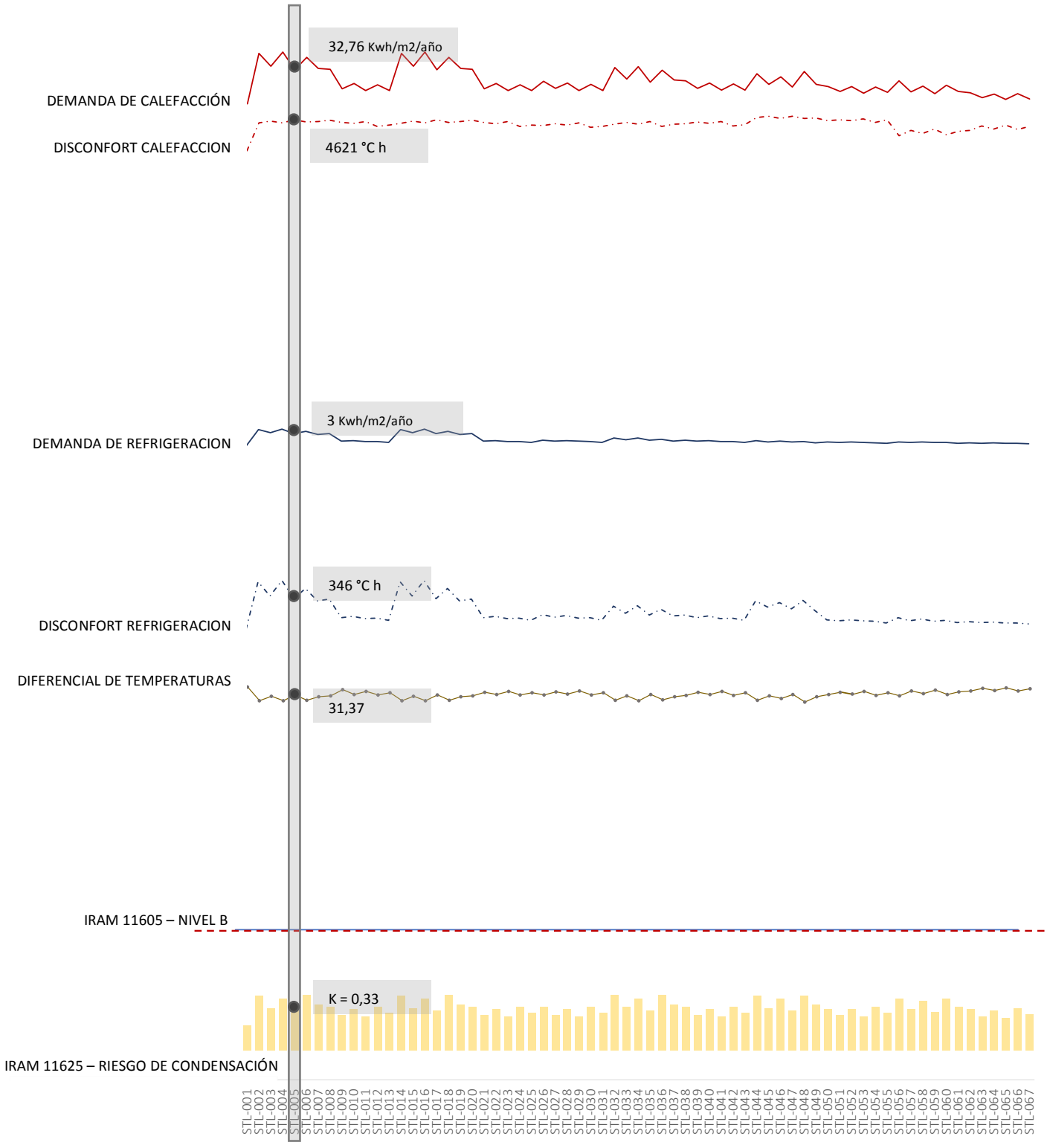



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **104,92** | kWh | 3,00 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.146,62** | kWh | 32,76 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.251,54** | kWh | **35,76** | kWh/m2/año |

| STL-005 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 029 | N° 056 | N° 124 | N° 164 | N° 180 | N° 156 |



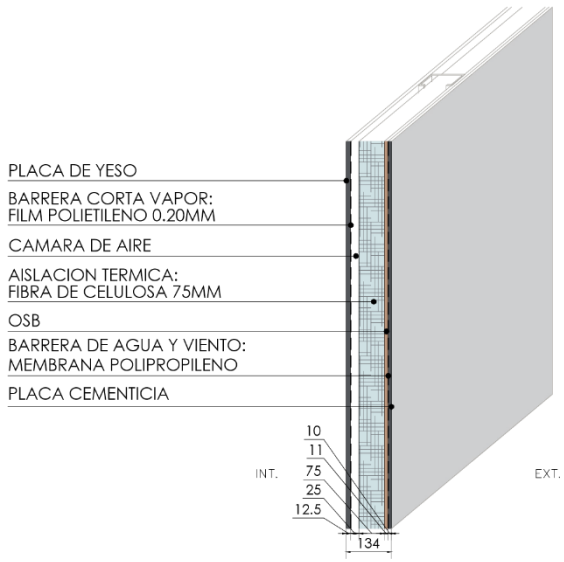

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,33 | 0% | 31,37 | 32,76 | 3 | 4621 | 346 |
| INC. FAMILIA | 93,45% | 0% | 100,16% | 102,82% | 119,81% | 100,58% | 122,92% |
| INC. MUNDIAL | 27,75% | 0% | 101,81% | 79,66% | 49,99% | 103,57% | 67,69% |

| STL-006 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

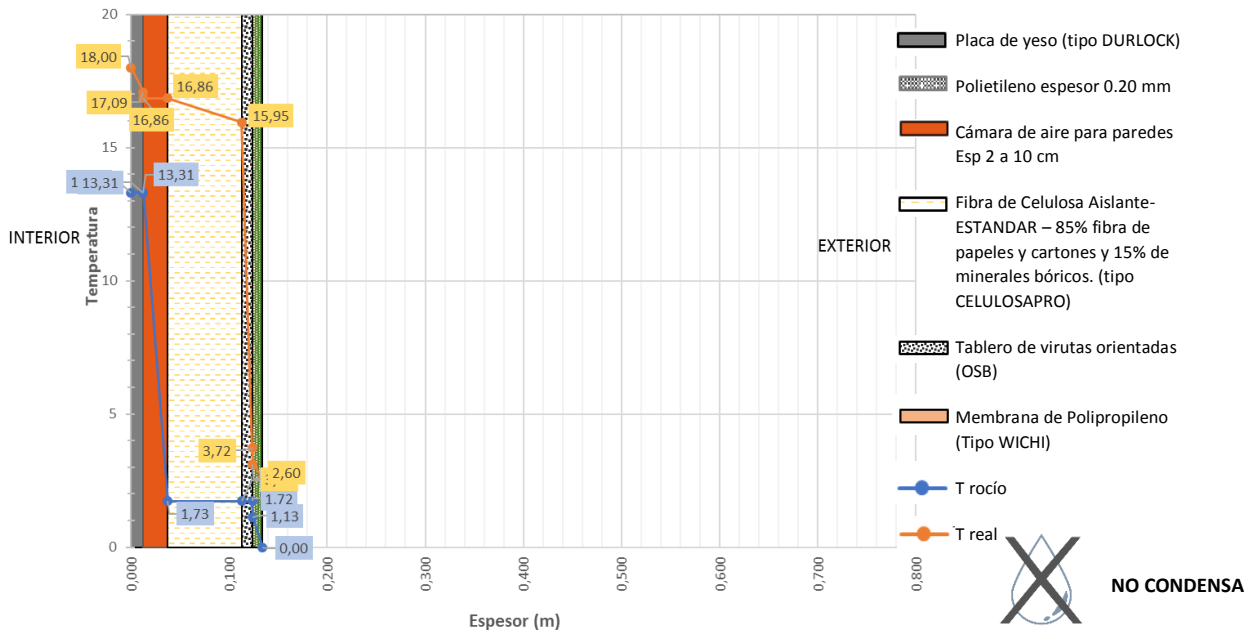
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,46 | 0,46 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



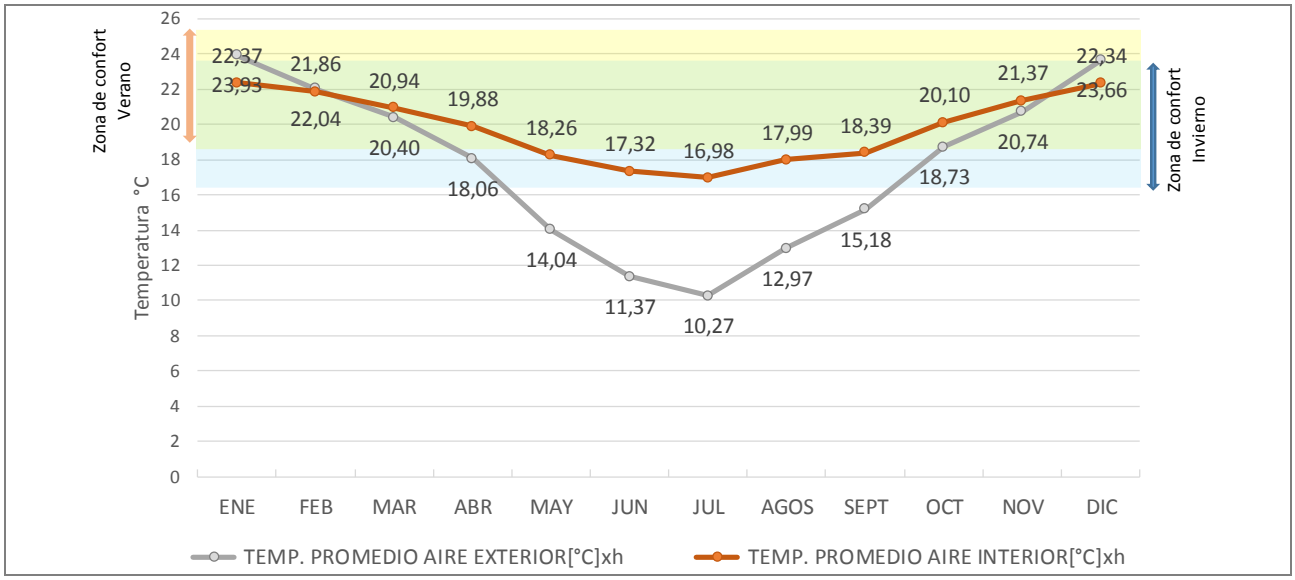

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,6 | 4,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,0** | **5,9** |
| | **Amortiguamiento:** | 0,107 | 0,112 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,5** | **4,2** |
| | **Amortiguamiento:** | 0,237 | 0,335 |

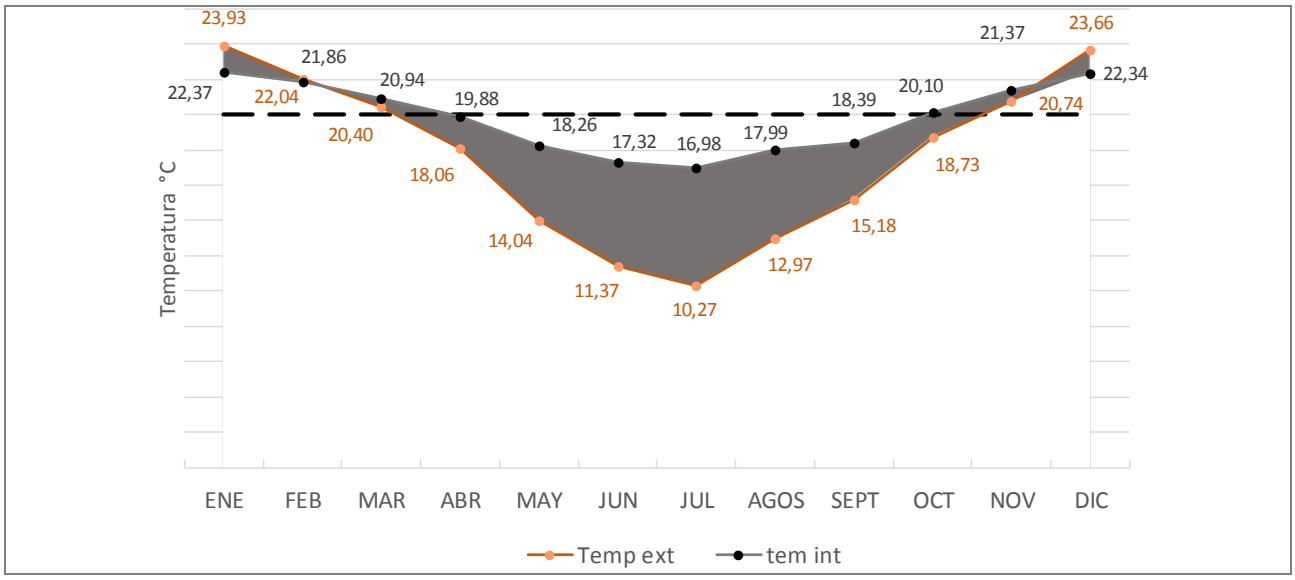
| STL-006 | MU | STEEL FRAME |
|---|---|---|

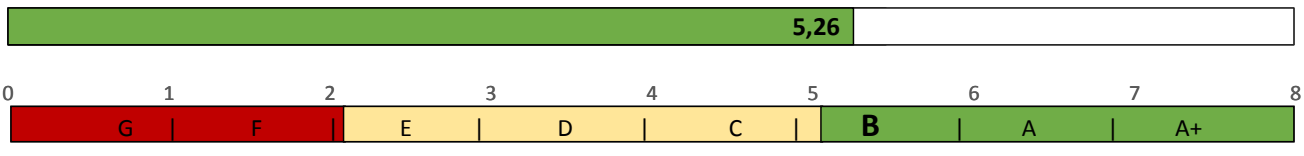
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,35** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,40** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



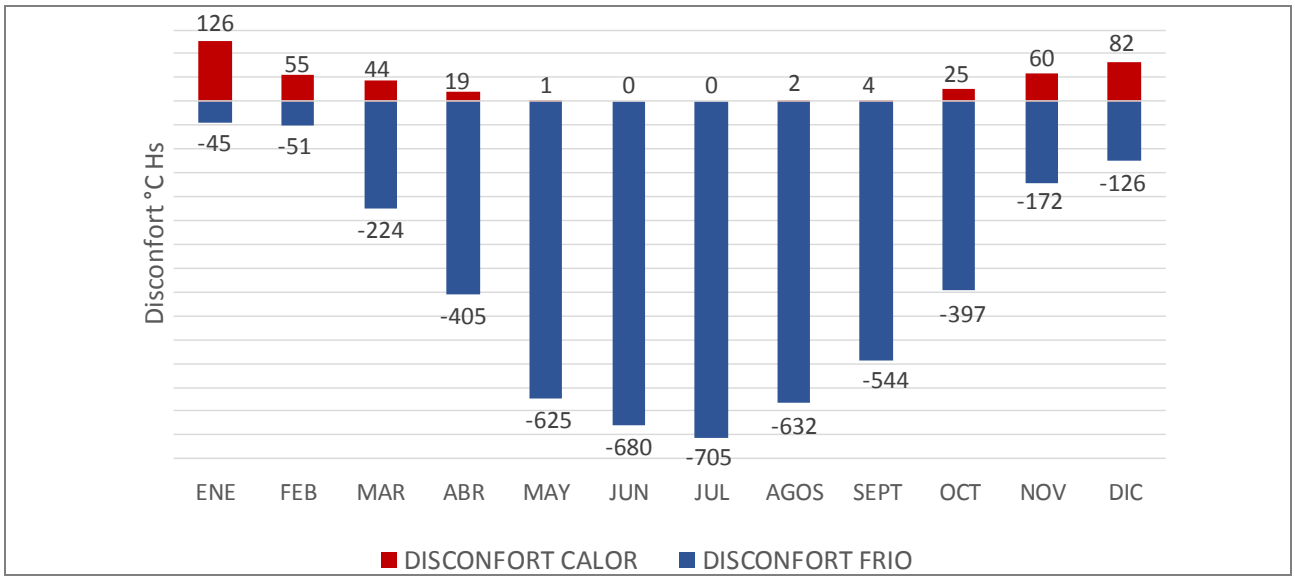




5,26 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-006 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

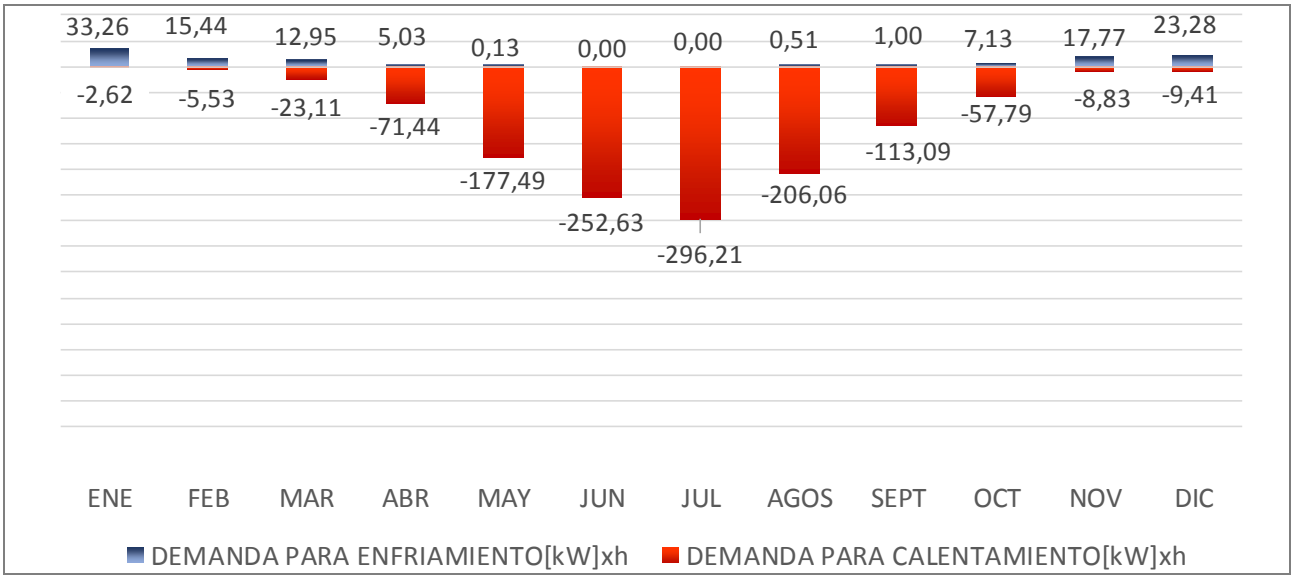
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **418** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.606** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.024** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

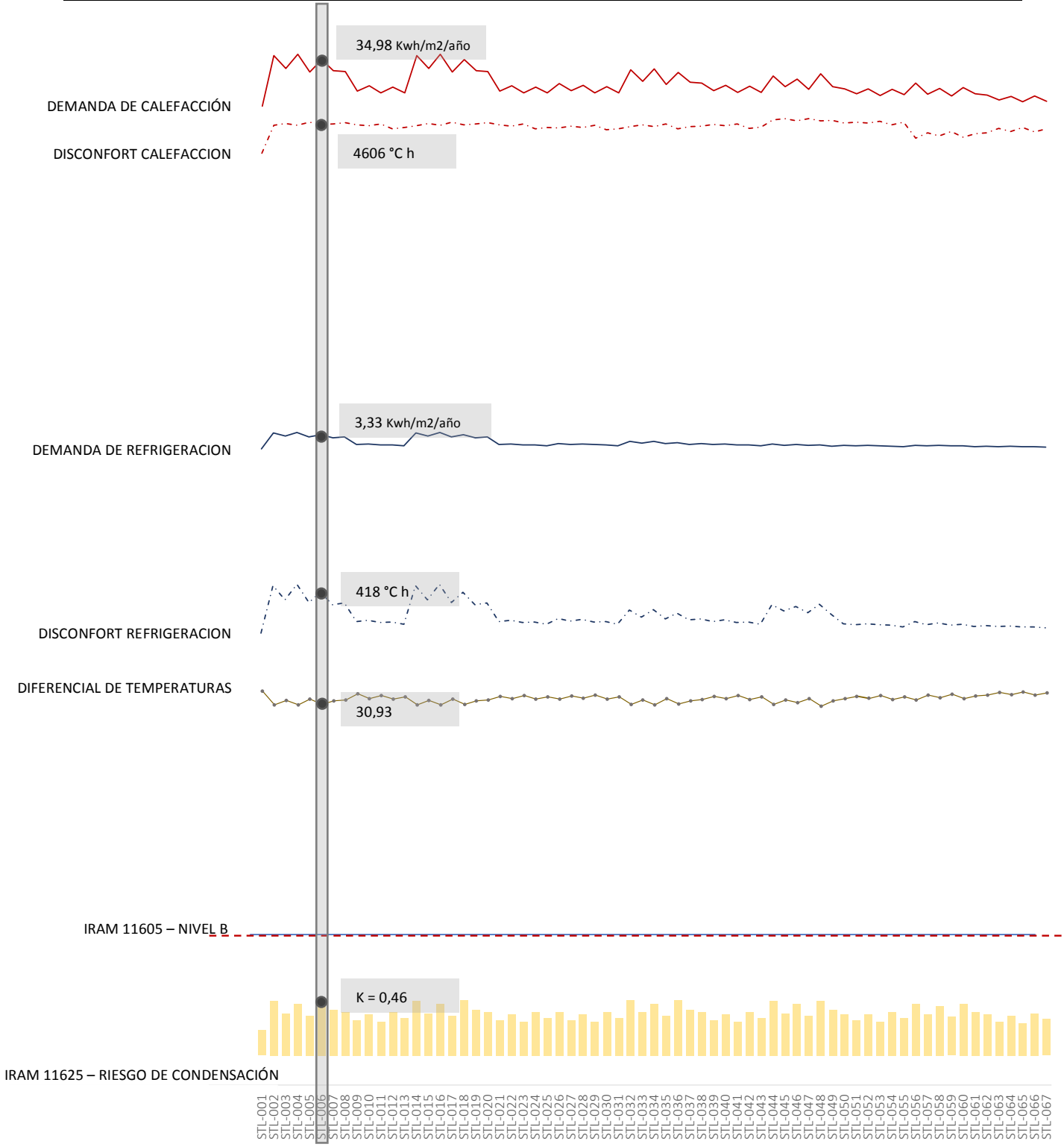



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **116,50** | kWh | 3,33 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.224,21** | kWh | 34,98 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.340,71** | kWh | **38,31** | kWh/m2/año |

| STL-006 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 101 | N° 118 | N° 149 | N° 171 | N° 164 | N° 164 |



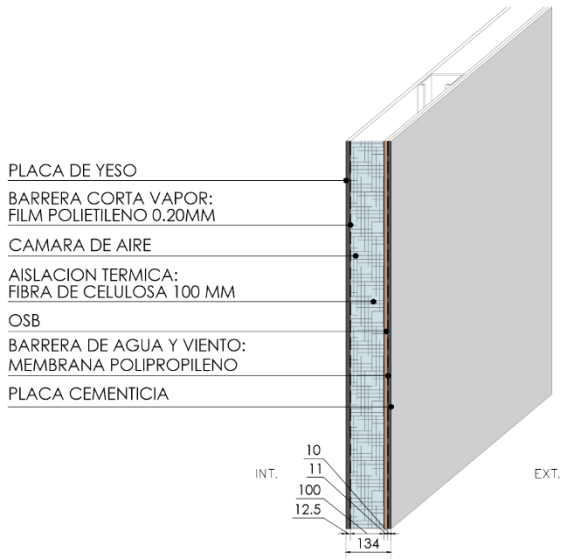

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,46 | 0% | 30,93 | 34,98 | 3,33 | 4606 | 418 |
| INC. FAMILIA | 130,26% | 0% | 98,76% | 109,78% | 132,99% | 100,26% | 148,50% |
| INC. MUNDIAL | 38,68% | 0% | 100,38% | 85,06% | 55,48% | 103,24% | 81,78% |

| STL-007 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

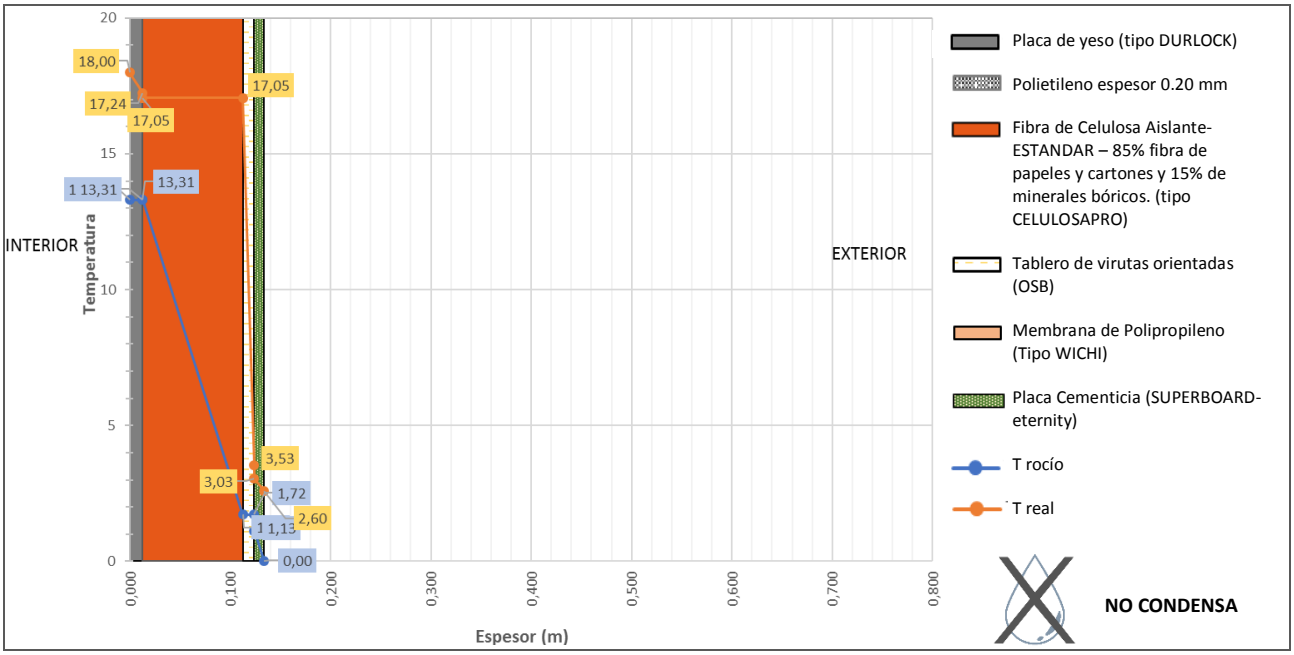
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,38 | 0,38 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



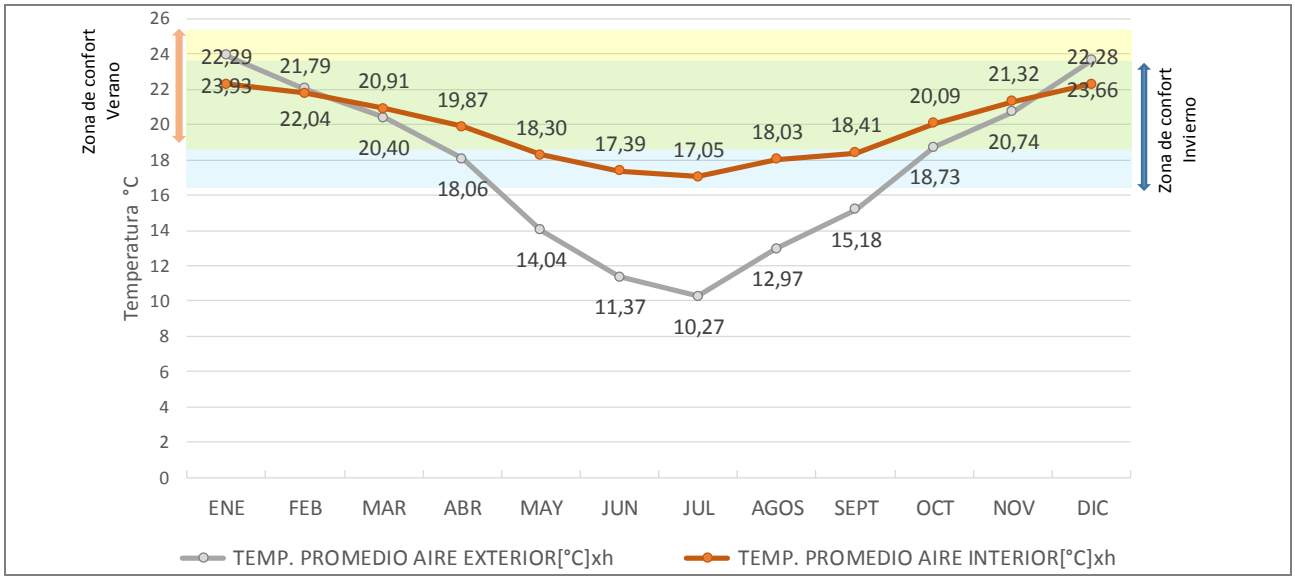

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,2 | 4,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,0** | **6,9** |
| | **Amortiguamiento:** | 0,074 | 0,078 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,2** | **4,9** |
| | **Amortiguamiento:** | 0,198 | 0,279 |

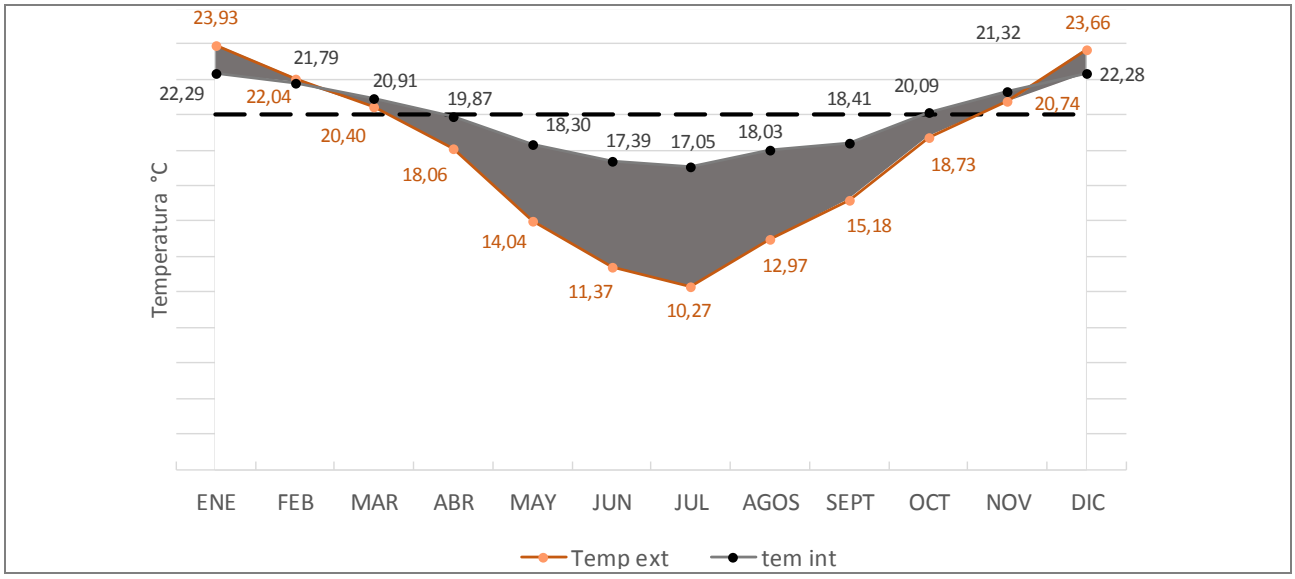
| STL-007 | MU | STEEL FRAME |
|---|---|---|

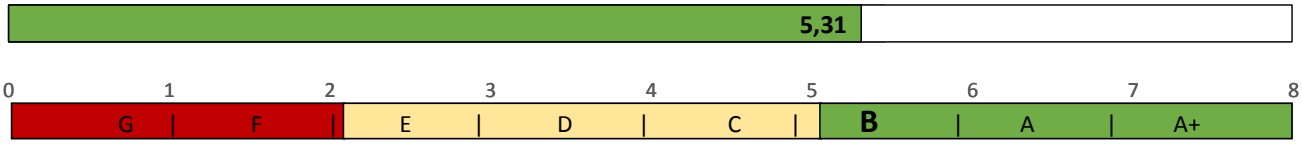
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,97** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,74** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



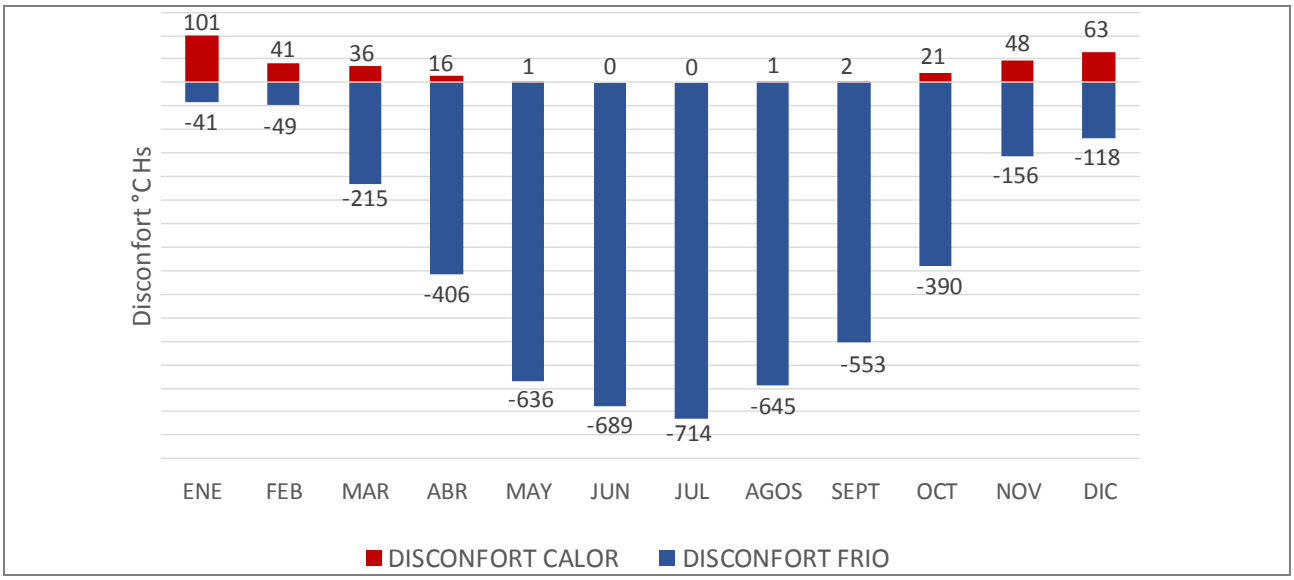




5,31 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-007 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

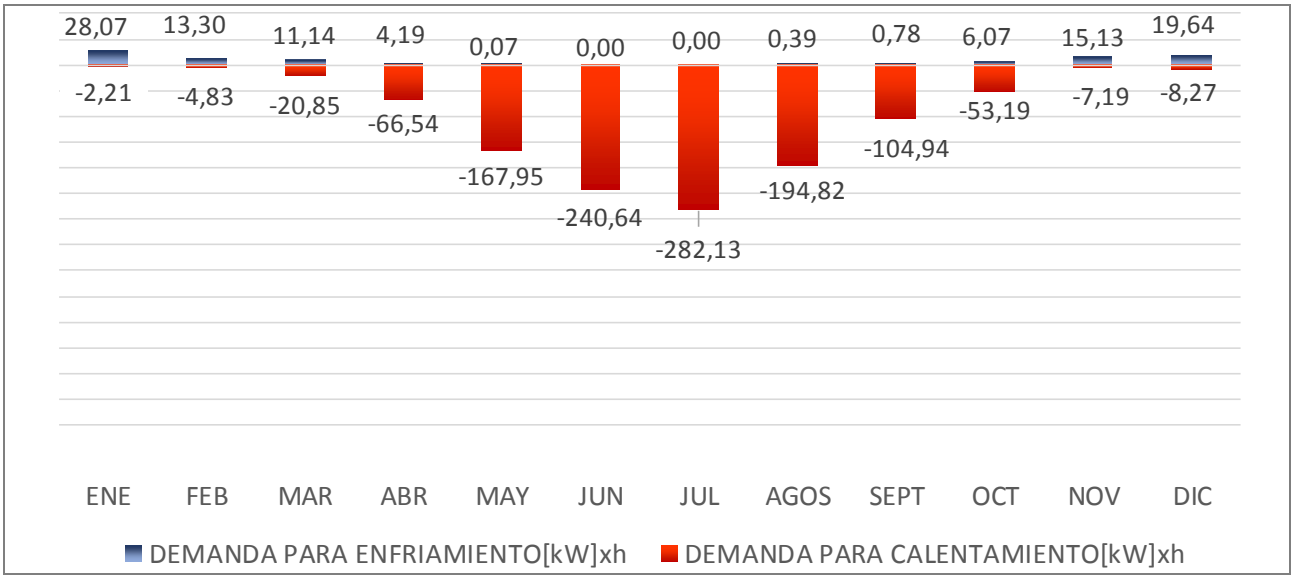
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **330** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.610** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.940** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

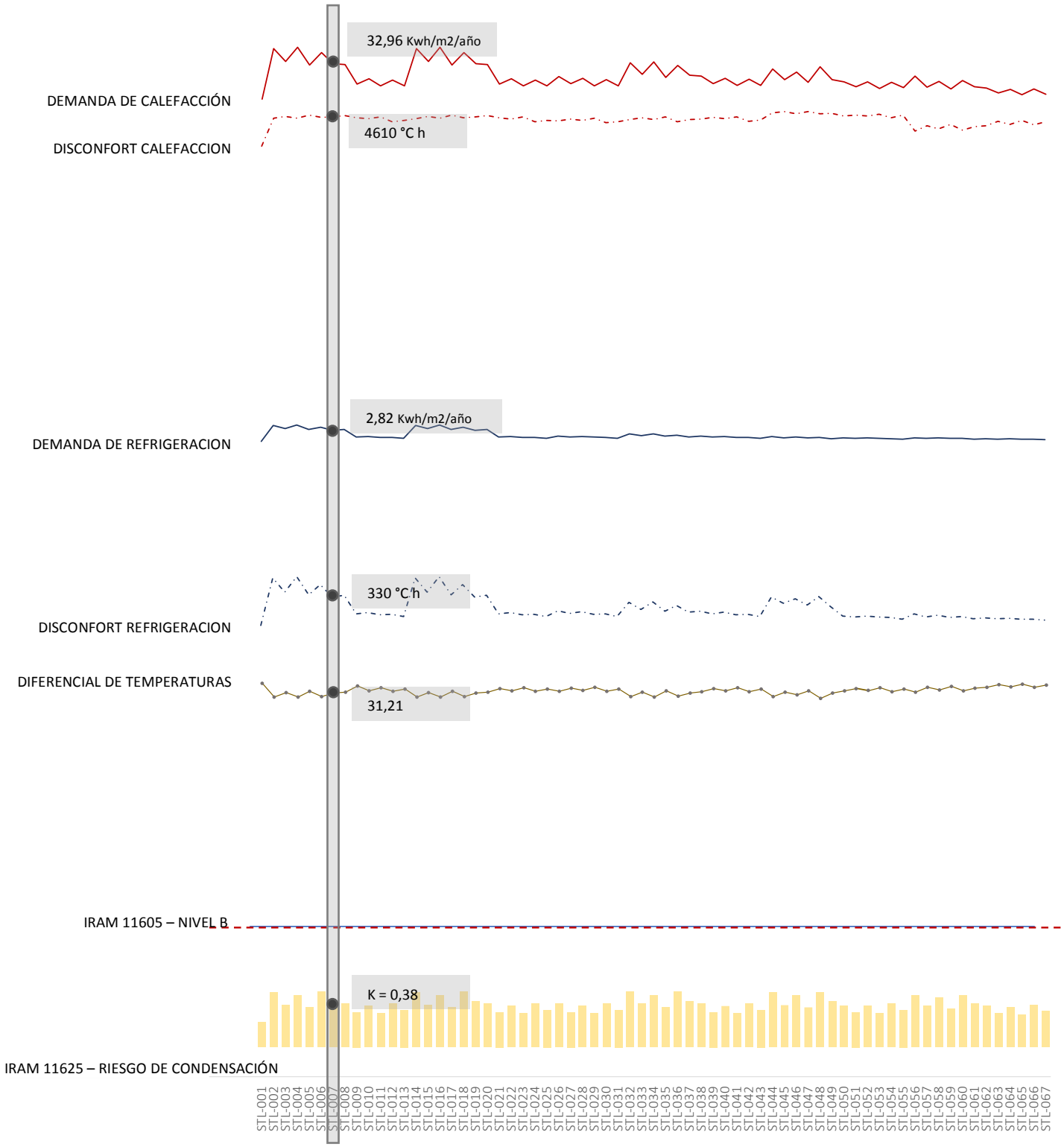



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **98,77** | kWh | 2,82 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.153,56** | kWh | 32,96 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.252,34** | kWh | **35,78** | kWh/m2/año |

| STL-007 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 066 | N° 088 | N° 132 | N° 160 | N° 171 | N° 151 |



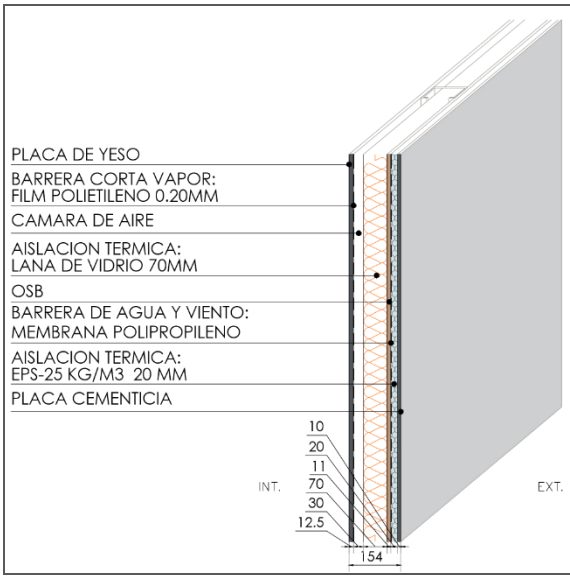

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,38 | 0% | 31,21 | 32,96 | 2,82 | 4610 | 330 |
| INC. FAMILIA | 107,61% | 0% | 99,65% | 103,44% | 112,63% | 100,34% | 117,24% |
| INC. MUNDIAL | 31,95% | 0% | 101,29% | 80,14% | 46,99% | 103,33% | 64,56% |

| STL-008 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 70MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

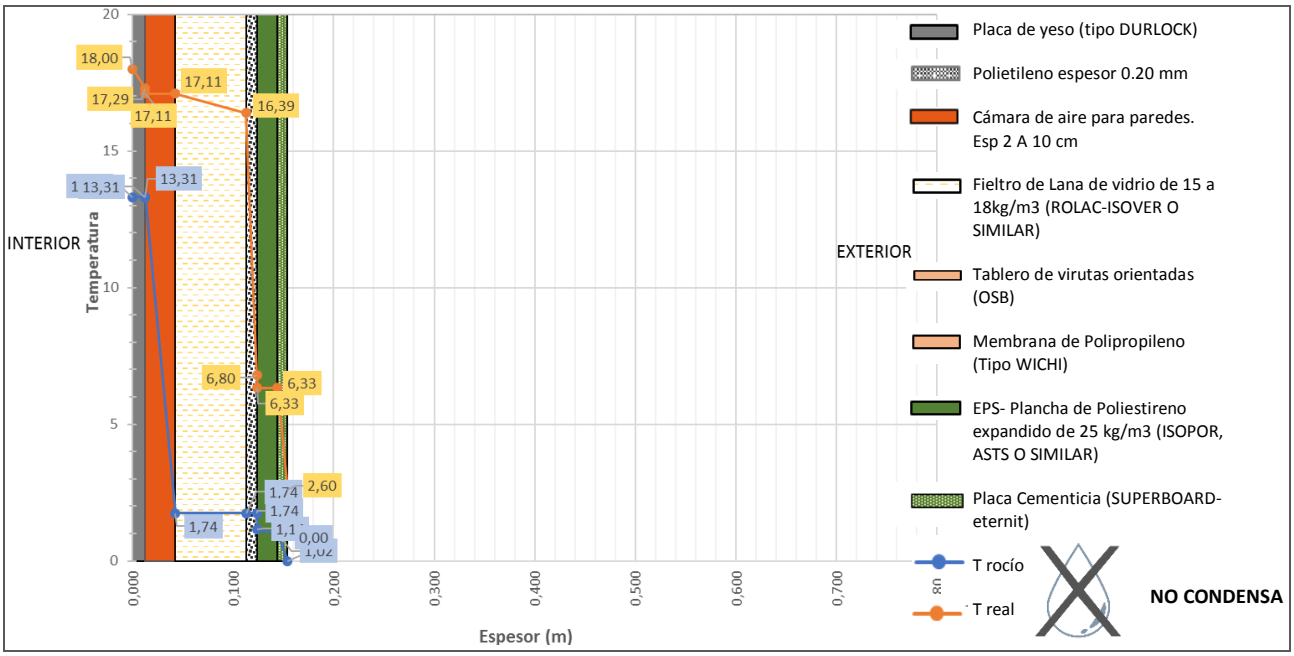
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



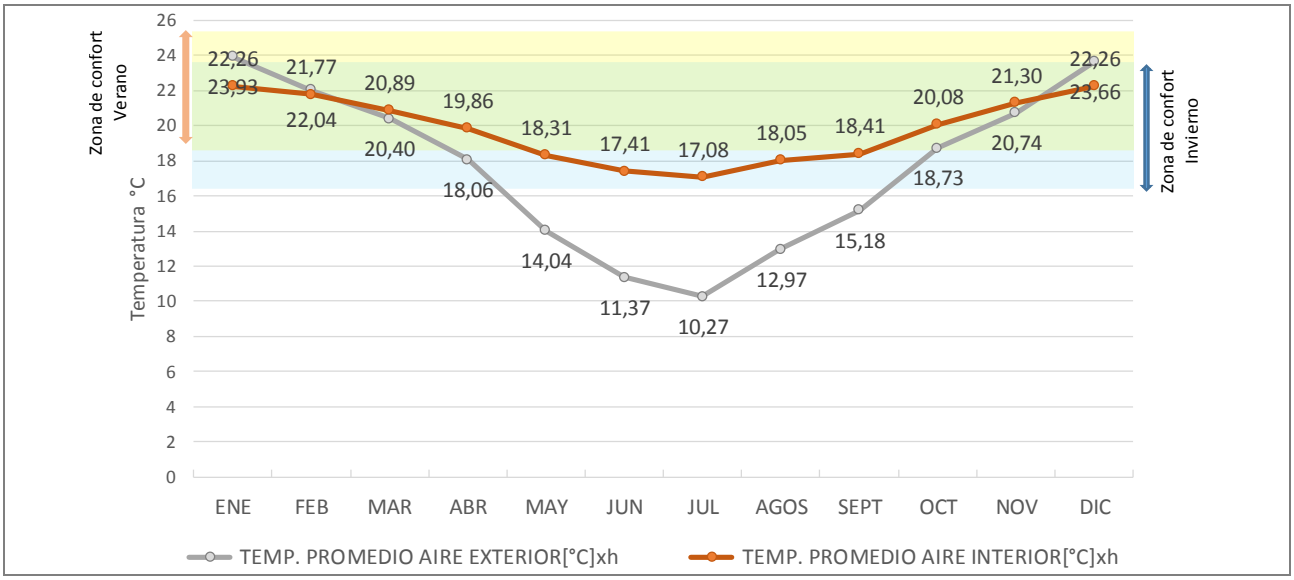

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,4 | 2,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,6** | **5,4** |
| | **Amortiguamiento:** | 0,125 | 0,133 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,2** | **4,2** |
| | **Amortiguamiento:** | 0,253 | 0,329 |

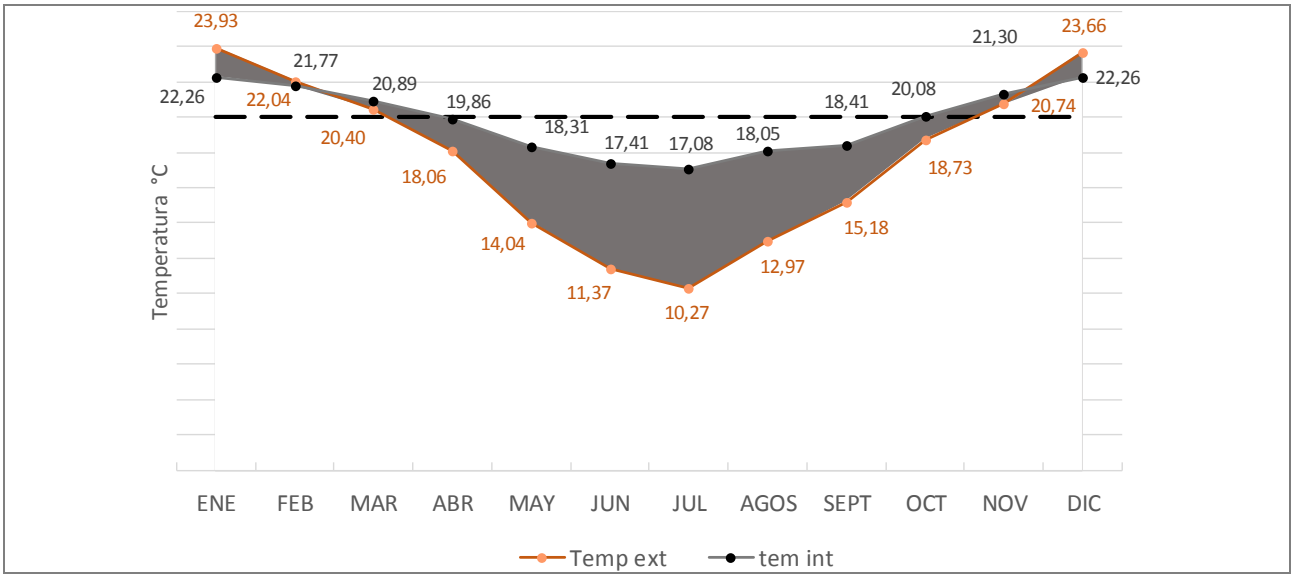
| STL-008 | MU | STEEL FRAME |
|---|---|---|

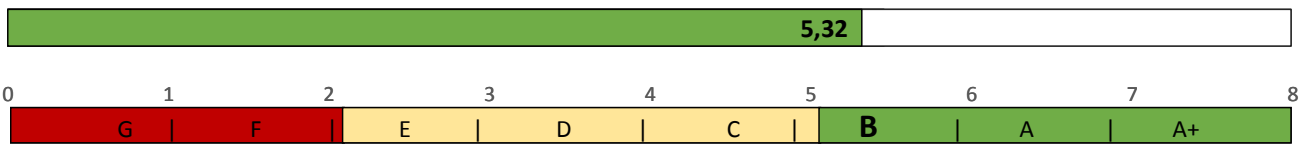
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,04** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,73** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



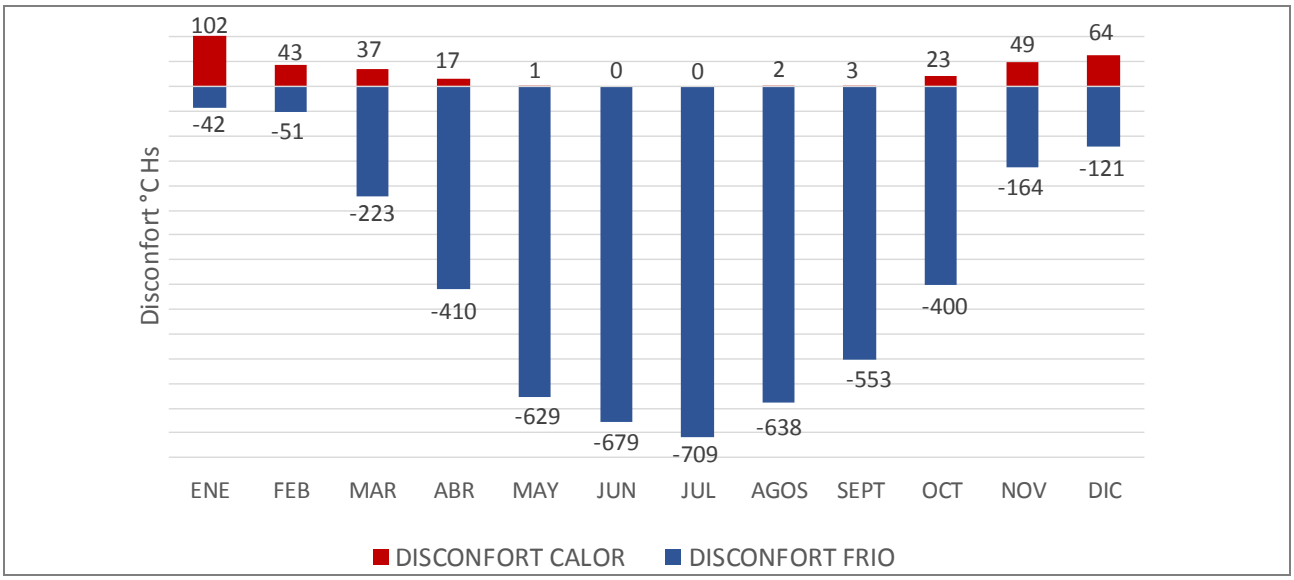




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-008 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

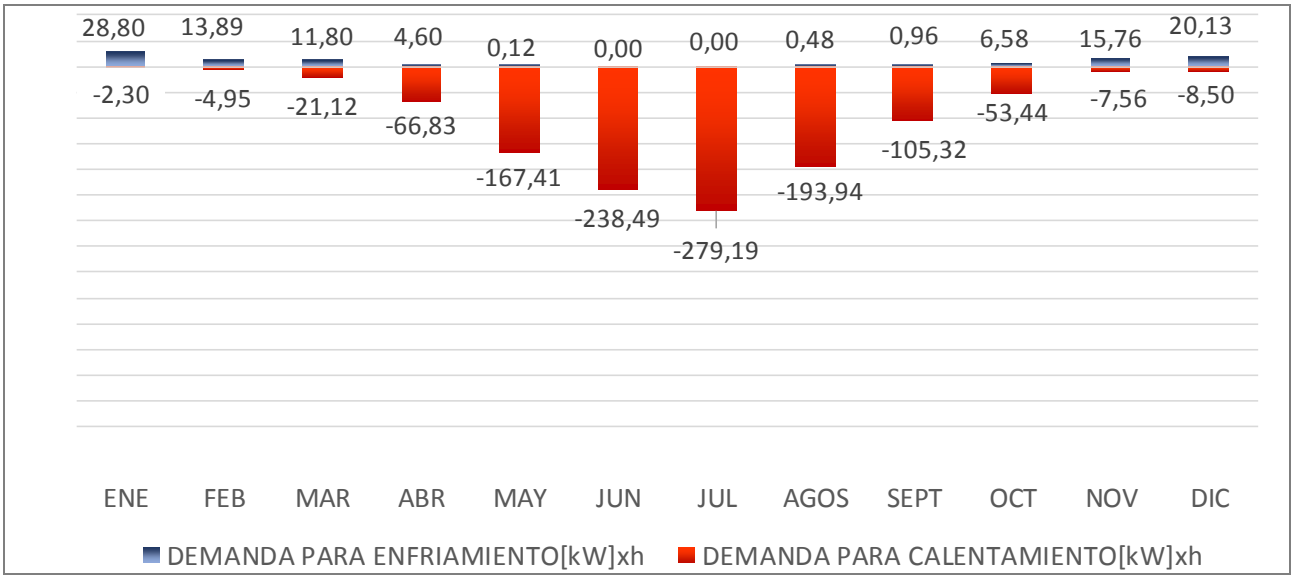
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **342** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.618** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.960** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

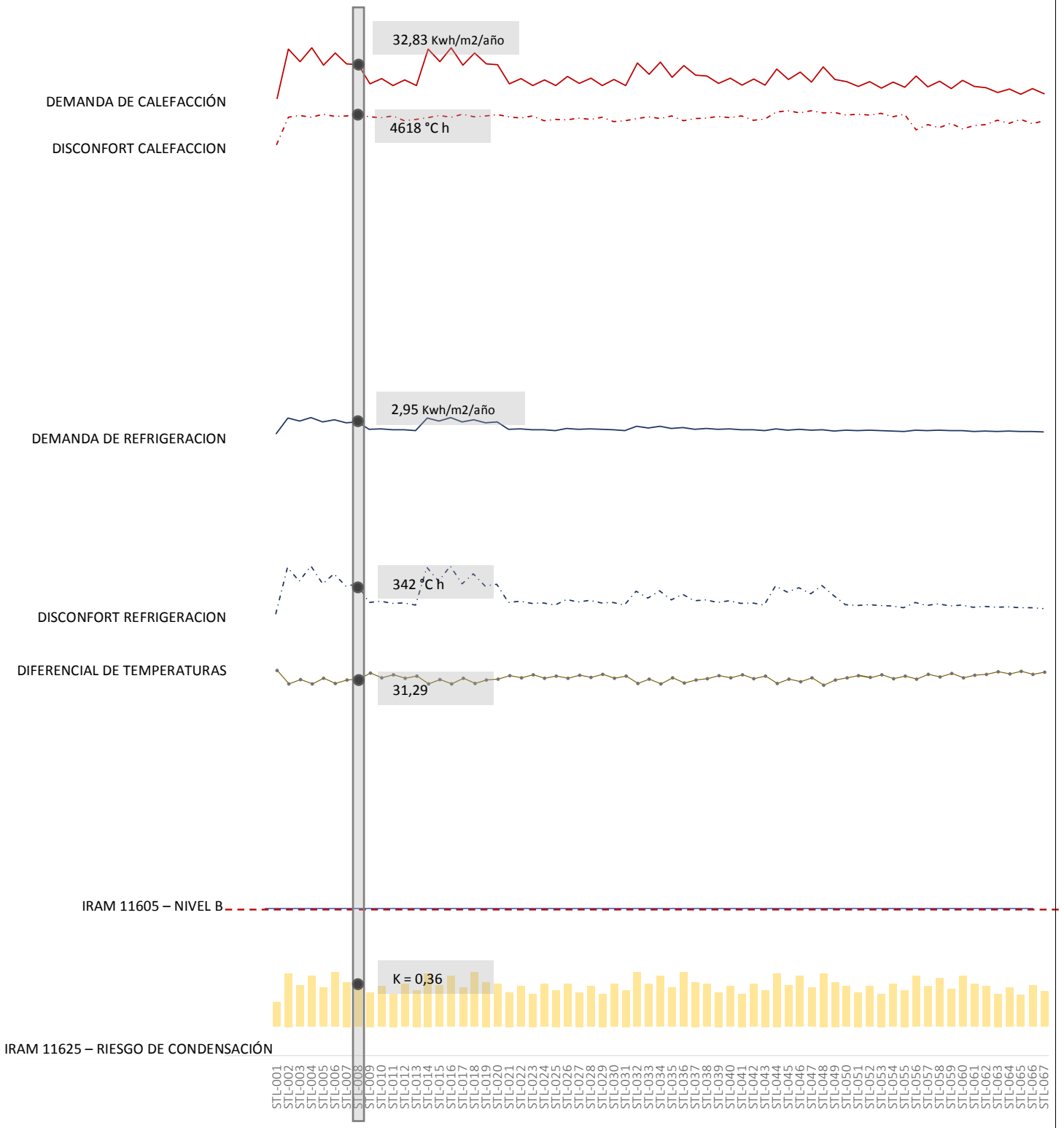



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **103,13** | kWh | 2,95 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.149,05** | kWh | 32,83 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.252,18** | kWh | **35,78** | kWh/m2/año |

| STL-008 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 050 | N° 075 | N° 127 | N° 162 | N° 178 | N° 154 |



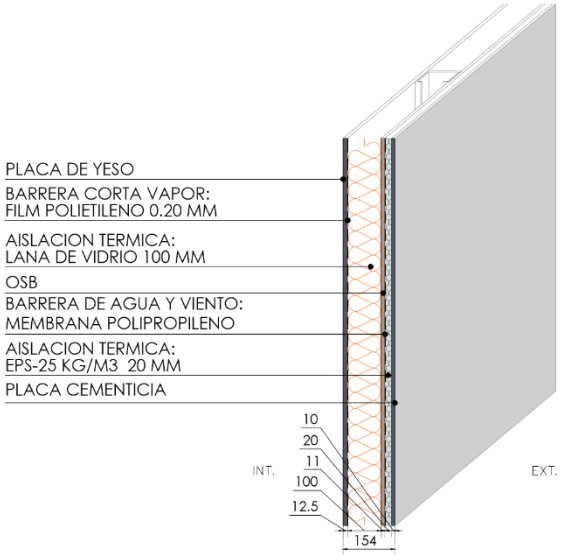

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,36 | 0% | 31,29 | 32,83 | 2,95 | 4618 | 342 |
| INC. FAMILIA | 101,94% | 0% | 99,91% | 103,04% | 117,82% | 100,52% | 121,50% |
| INC. MUNDIAL | 30,27% | 0% | 101,55% | 79,83% | 49,15% | 103,51% | 66,91% |

| STL-009 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR

## INDICE DE TRANSMITANCIA TERMICA "K"

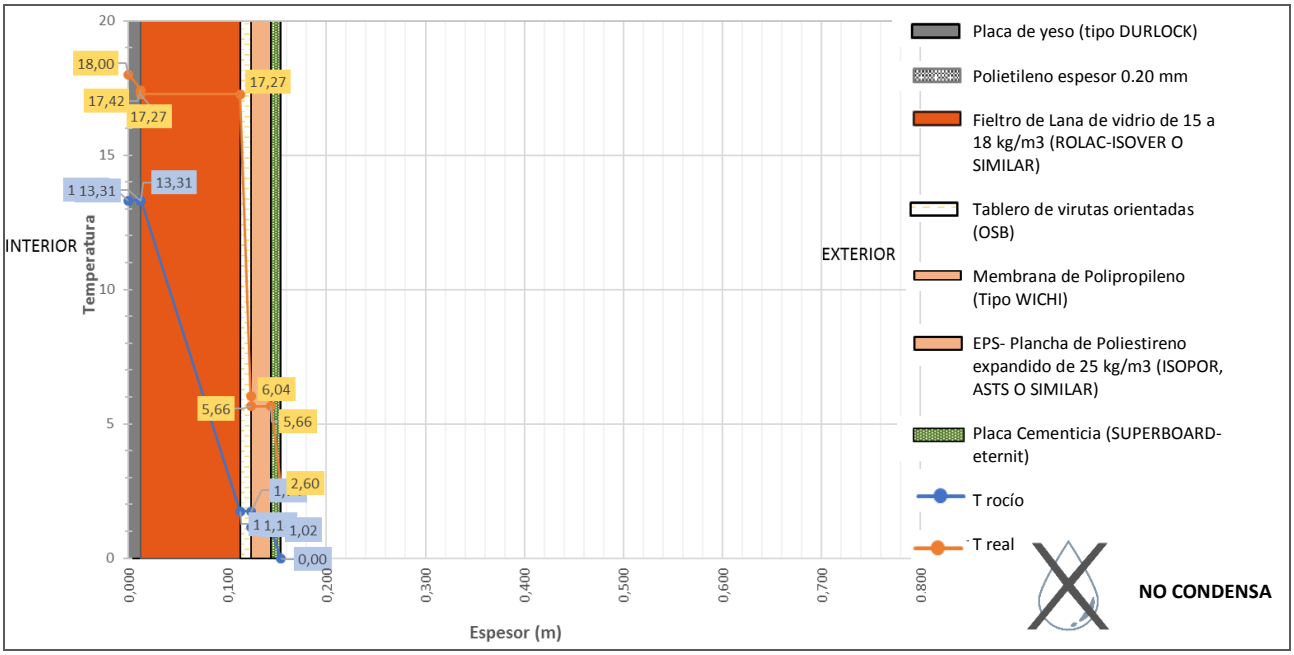
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,29 | 0,29 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



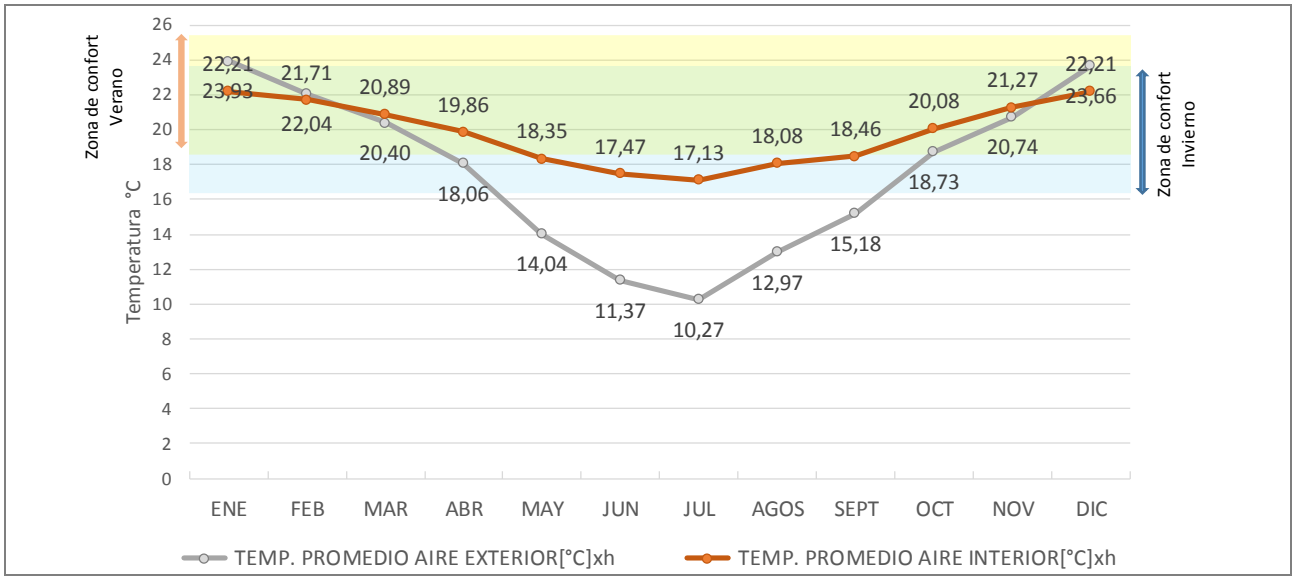

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,9 | 1,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,3** | **6,0** |
| | **Amortiguamiento:** | 0,099 | 0,107 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,9** | **4,6** |
| | **Amortiguamiento:** | 0,216 | 0,299 |

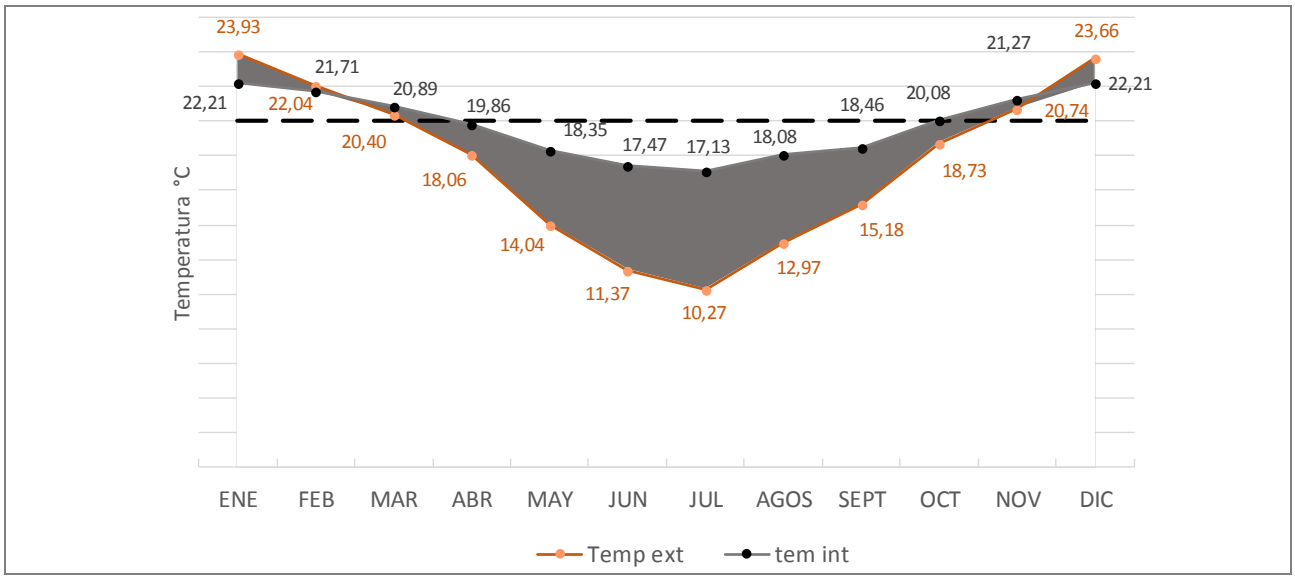
| STL-009 | MU | STEEL FRAME |
|---|---|---|

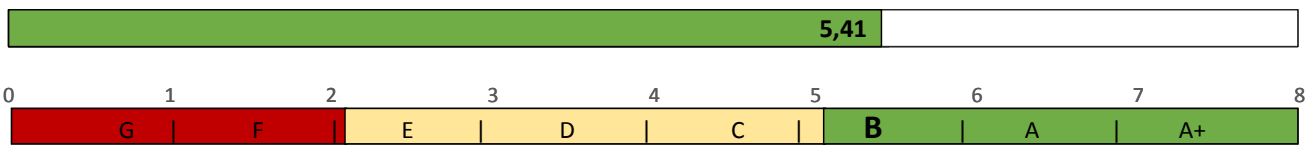
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,04** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,46** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



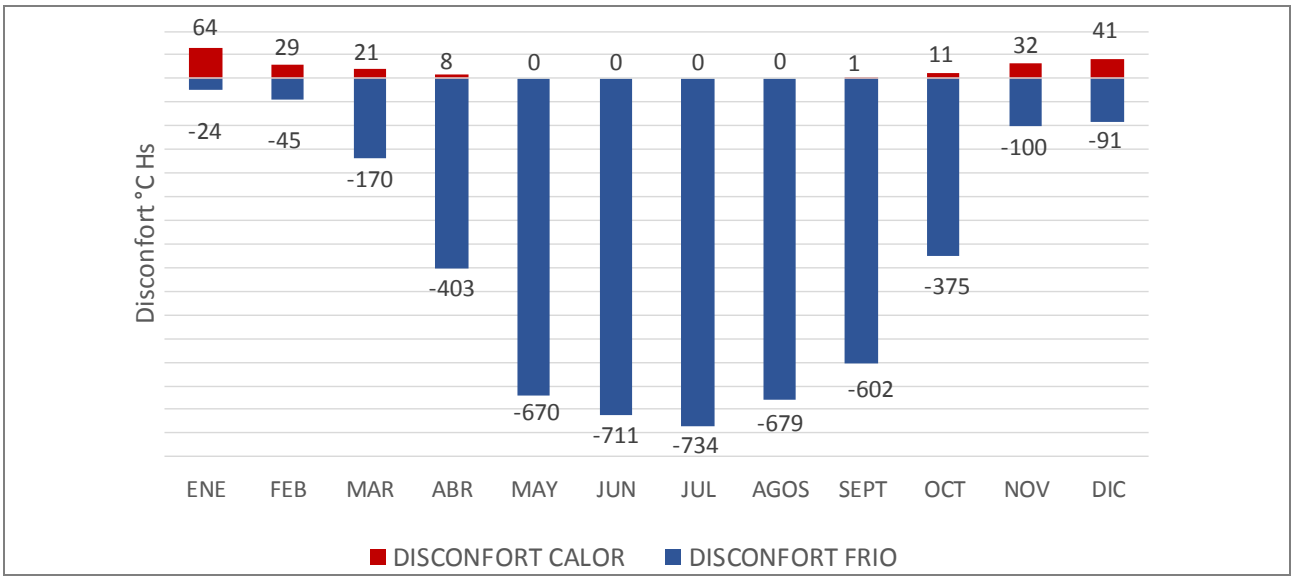




5,41 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,68

| STL-009 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

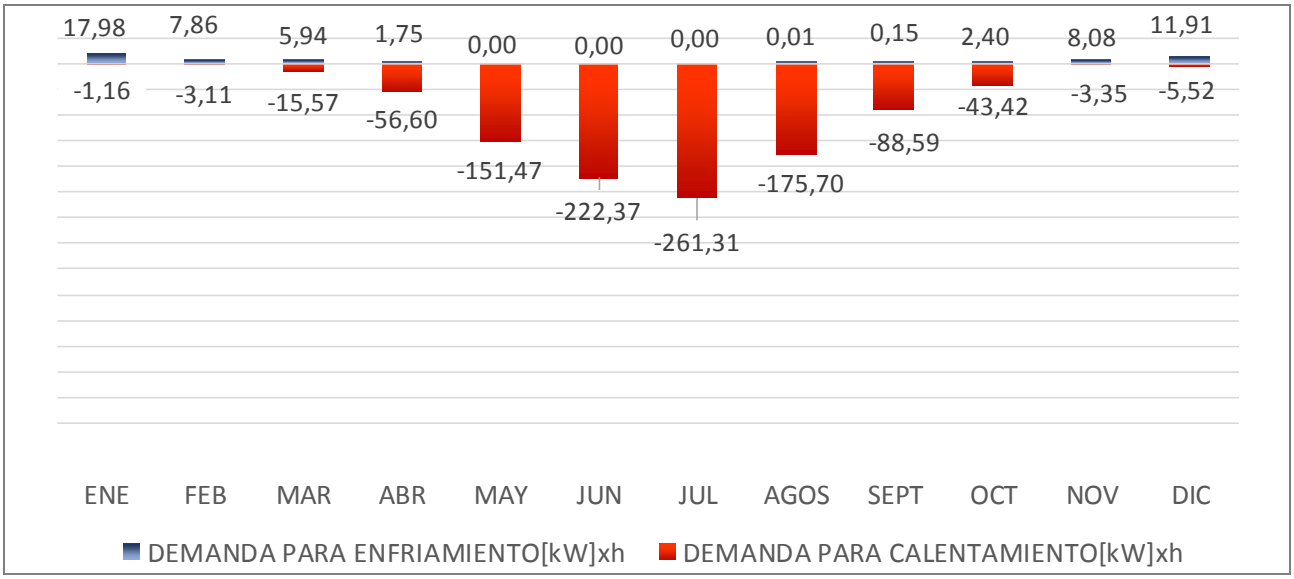
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **208** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.604** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.812** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

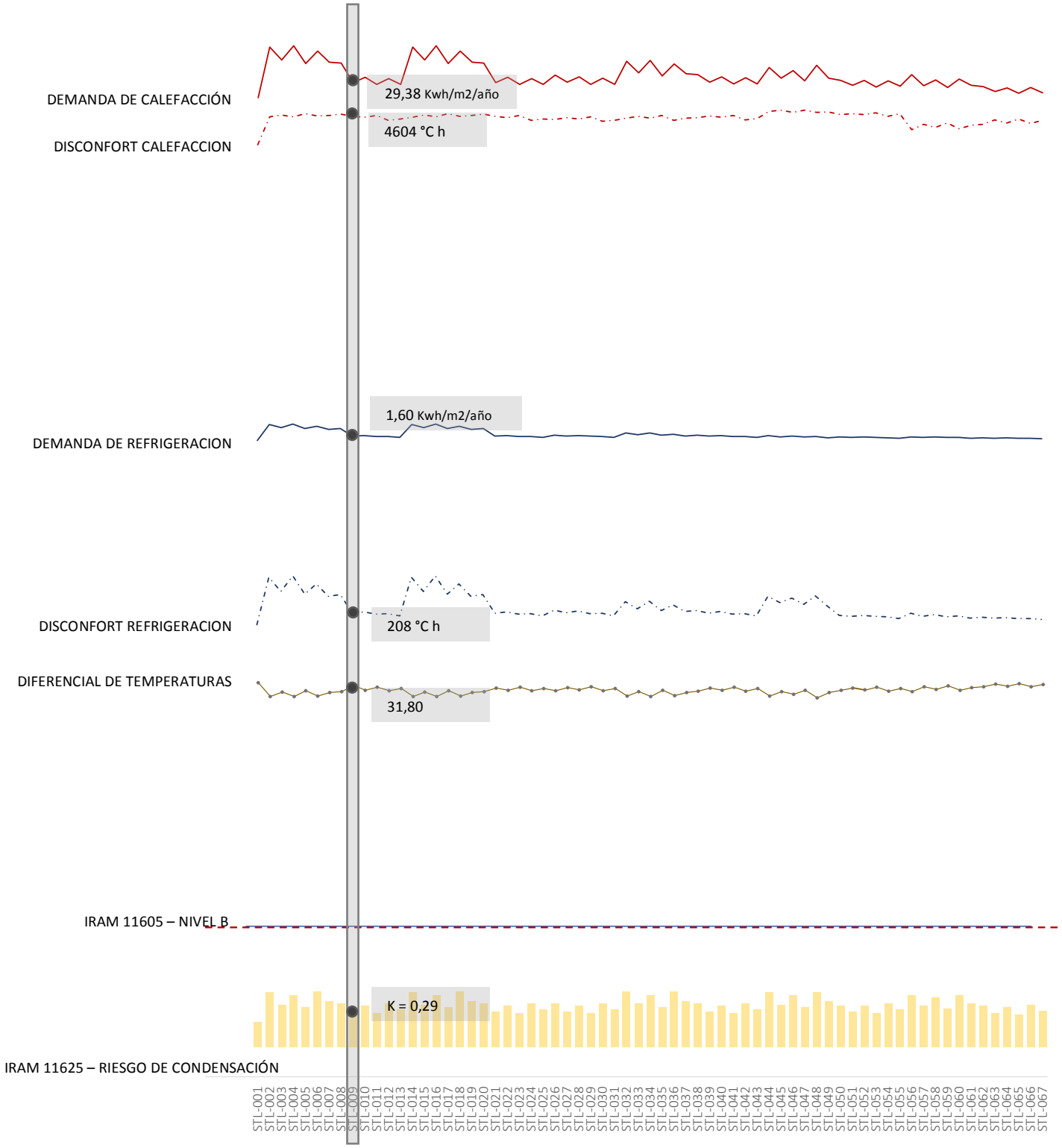



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **56,09** | kWh | 1,60 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.028,16** | kWh | 29,38 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.084,25** | kWh | **30,98** | kWh/m2/año |

| STL-009 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 013 | N° 014 | N° 044 | N° 122 | N° 160 | N° 106 |



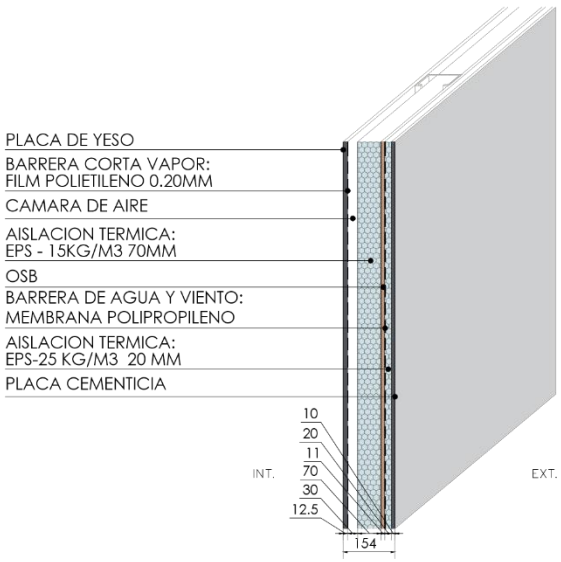

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,29 | 0% | 31,8 | 29,38 | 1,6 | 4604 | 208 |
| INC. FAMILIA | 82,12% | 0% | 101,54% | 92,21% | 63,90% | 100,21% | 73,90% |
| INC. MUNDIAL | 24,38% | 0% | 103,20% | 71,44% | 26,66% | 103,19% | 40,69% |

| STL-010 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

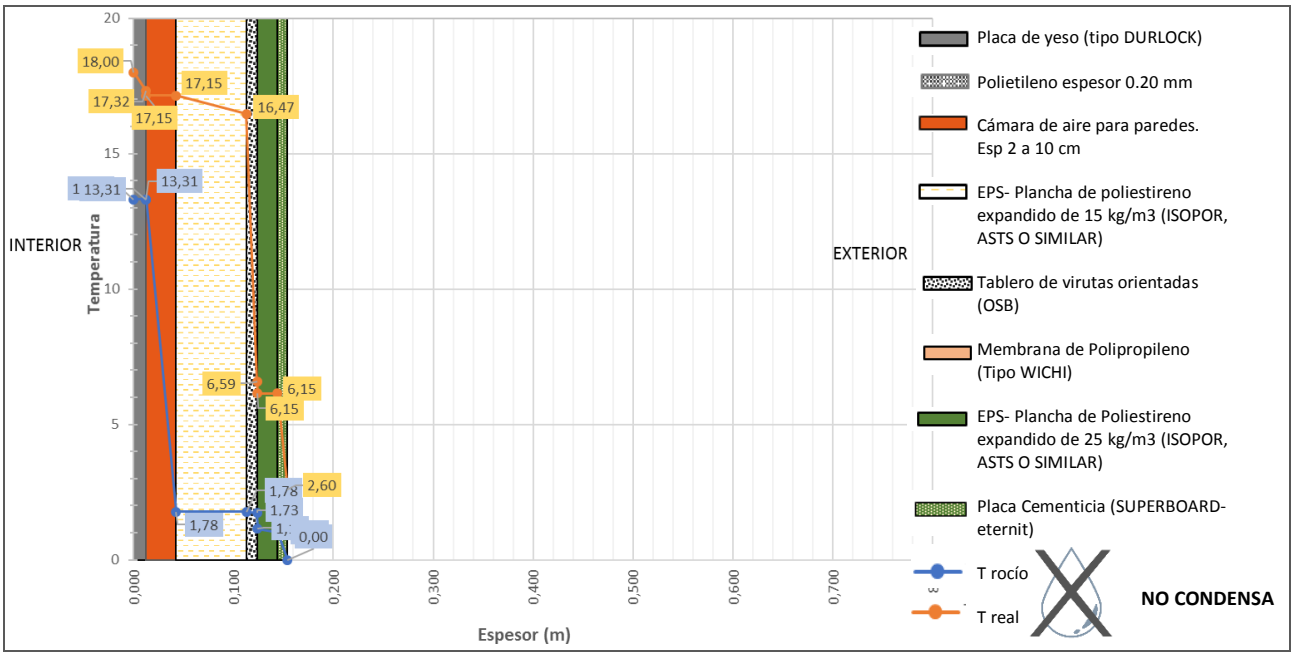
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,34 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



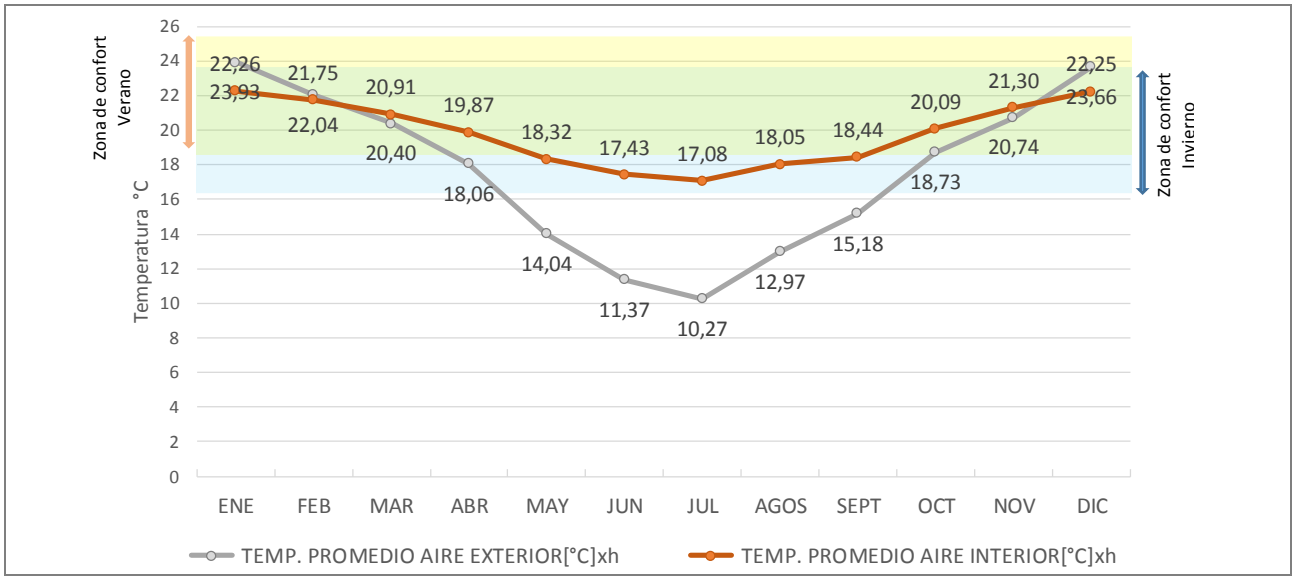

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,3 | 2,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,8** | **5,6** |
| | **Amortiguamiento:** | 0,118 | 0,126 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,4** | **4,3** |
| | **Amortiguamiento:** | 0,244 | 0,322 |

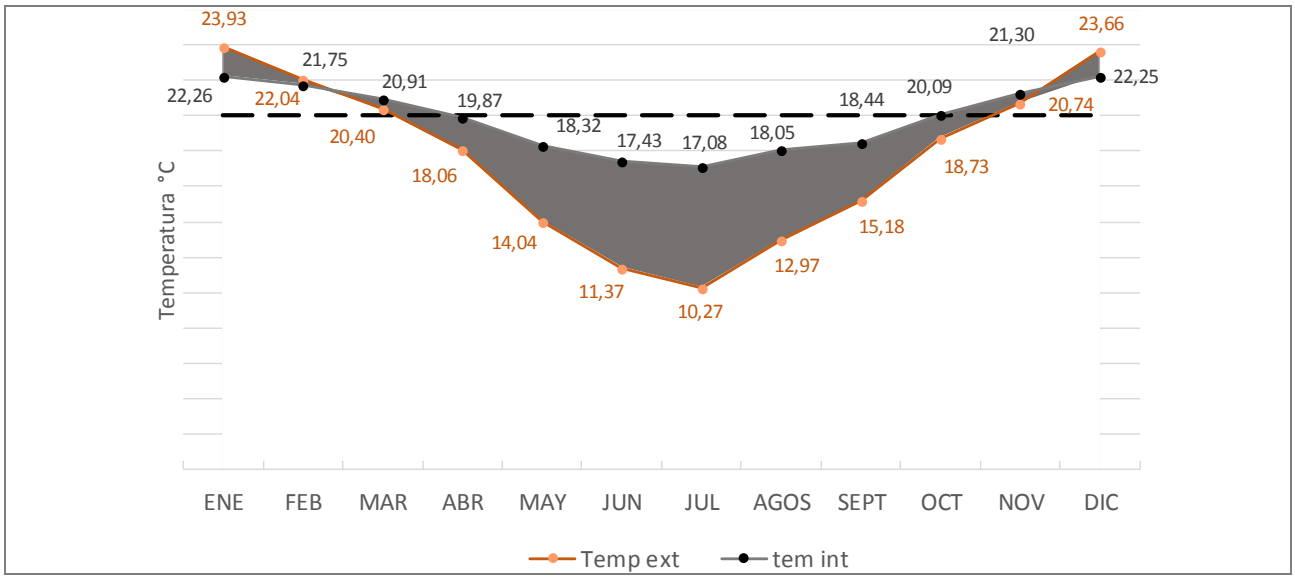
| STL-010 | MU | STEEL FRAME |
|---|---|---|

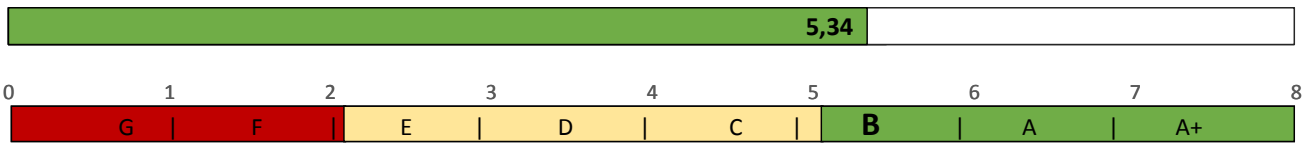
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,17** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,31** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



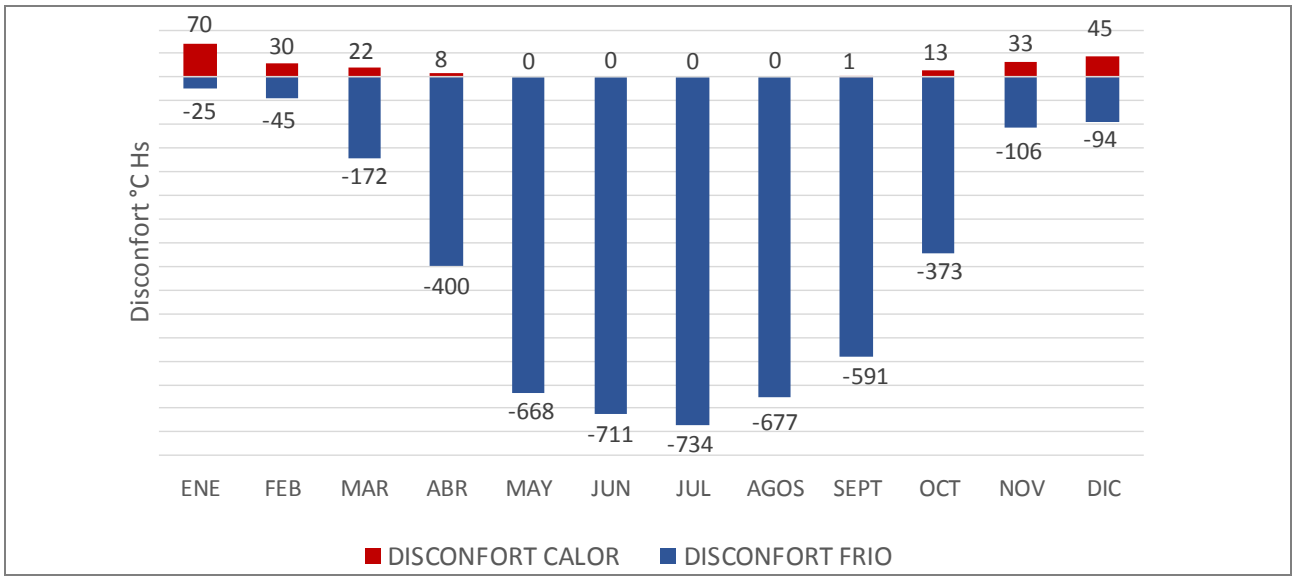




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-010 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

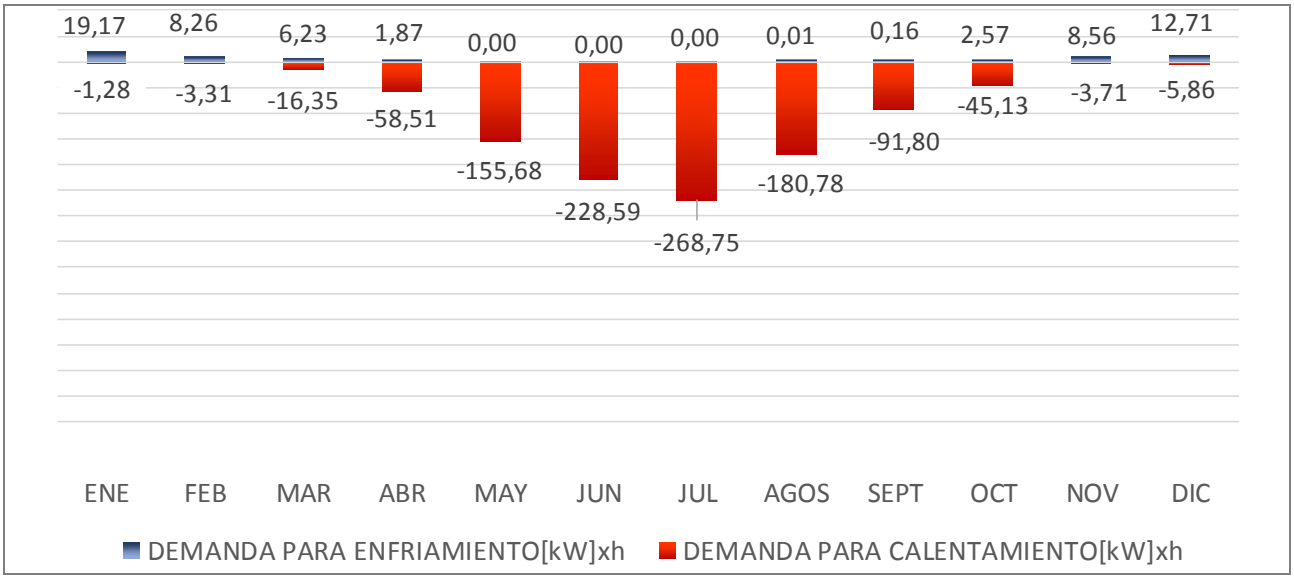
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **220** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.596** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.816** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

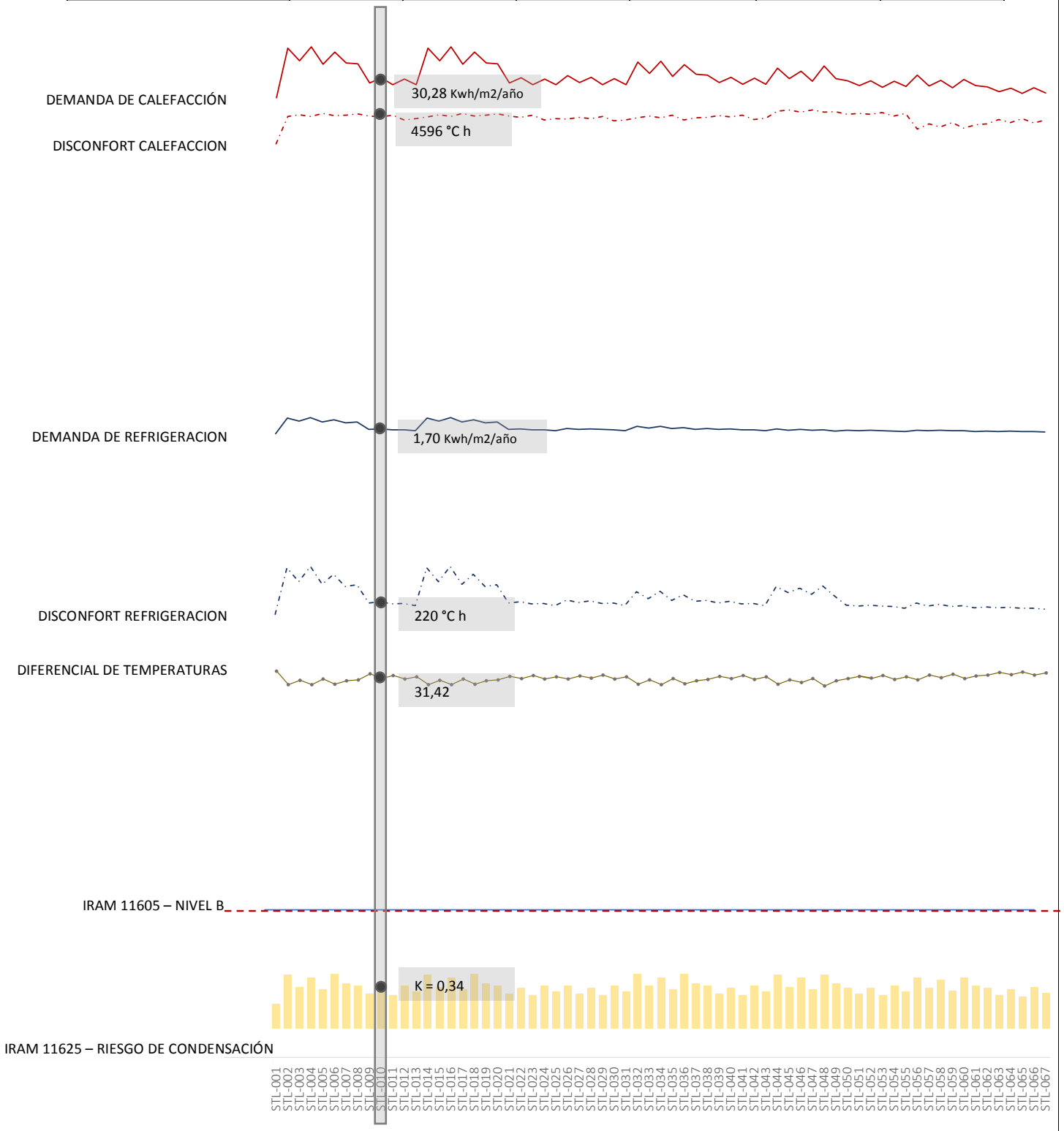



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **59,55** | kWh | 1,70 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.059,74** | kWh | 30,28 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.119,29** | kWh | **31,98** | kWh/m2/año |

| STL-010 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 037 | N° 044 | N° 081 | N° 134 | N° 150 | N° 113 |



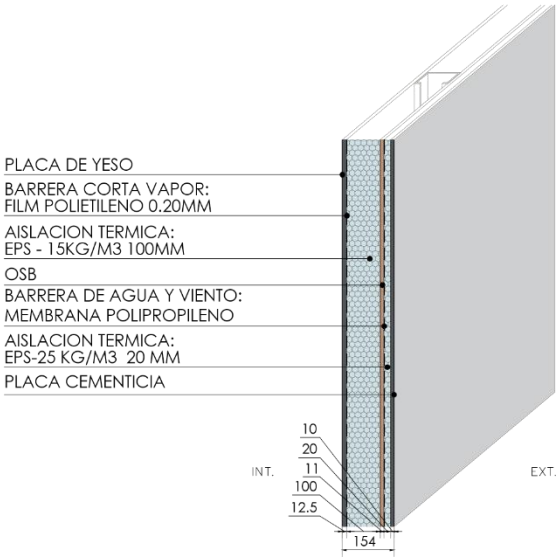

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,34 | 0% | 31,42 | 30,28 | 1,7 | 4596 | 220 |
| INC. FAMILIA | 96,28% | 0% | 100,32% | 95,03% | 67,89% | 100,04% | 78,16% |
| INC. MUNDIAL | 28,59% | 0% | 101,97% | 73,63% | 28,33% | 103,01% | 43,04% |

| STL-011 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG , HIDROFUGA Y BARRERA CORTAVAPOR

## INDICE DE TRANSMITANCIA TERMICA "K"

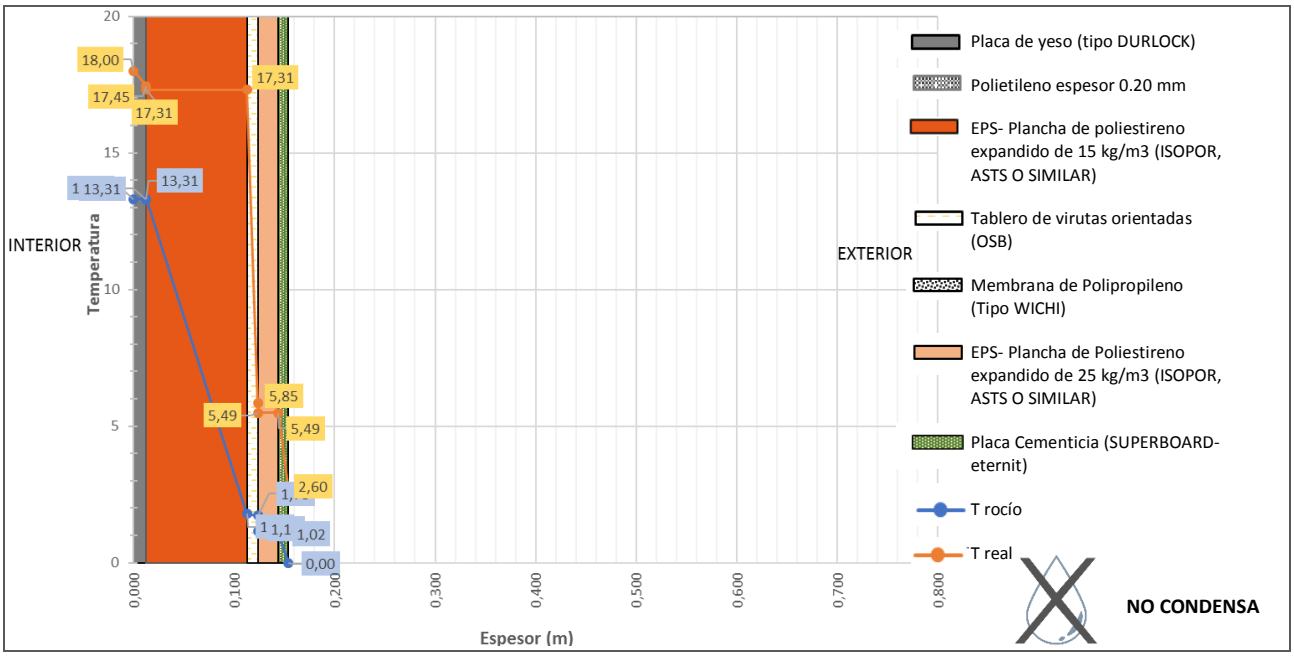
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,28 | 0,28 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



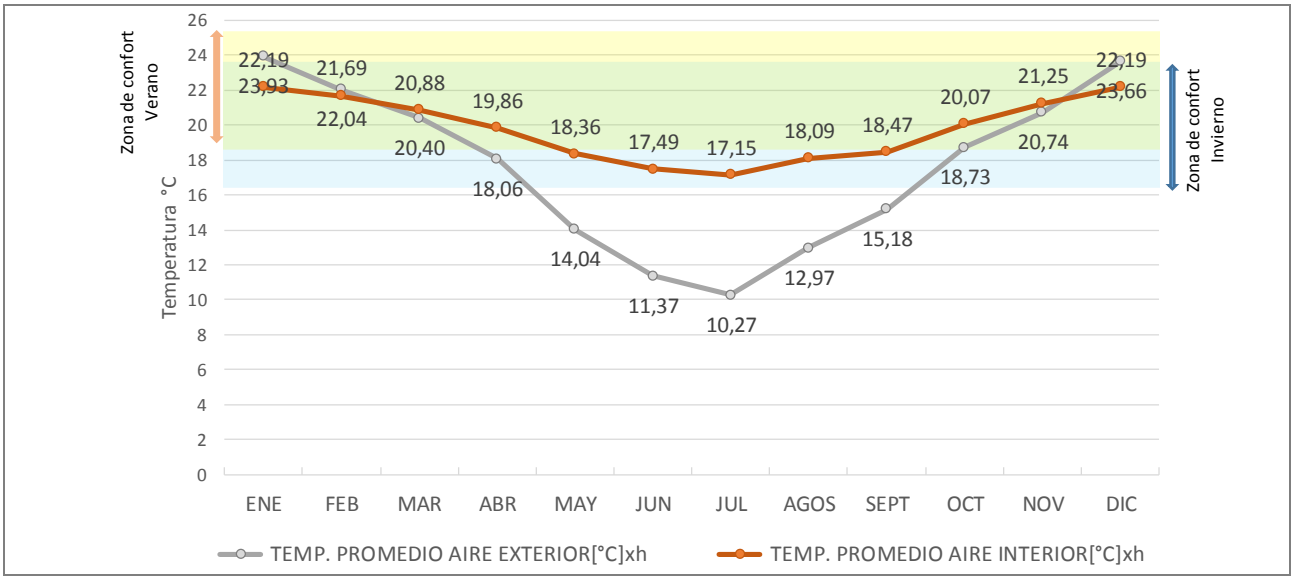

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,8 | 1,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,4** | **6,2** |
| | **Amortiguamiento:** | 0,092 | 0,099 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,0** | **4,7** |
| | **Amortiguamiento:** | 0,206 | 0,290 |

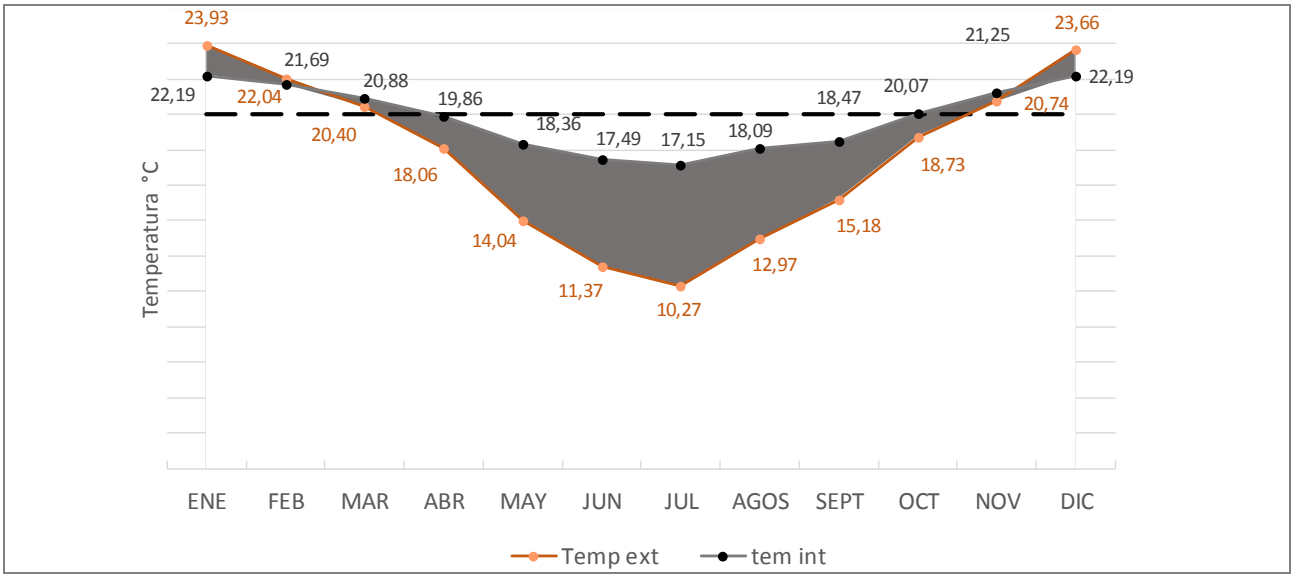
| STL-011 | MU | STEEL FRAME |
|---|---|---|

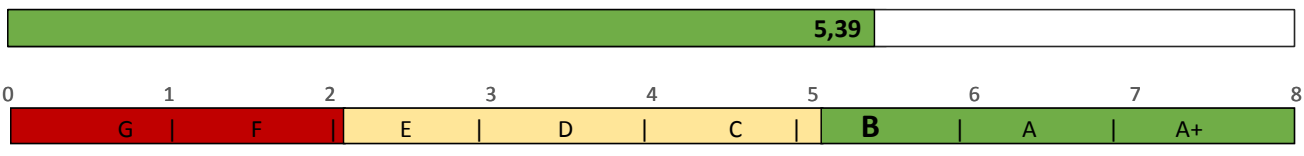
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,98** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **14,52** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



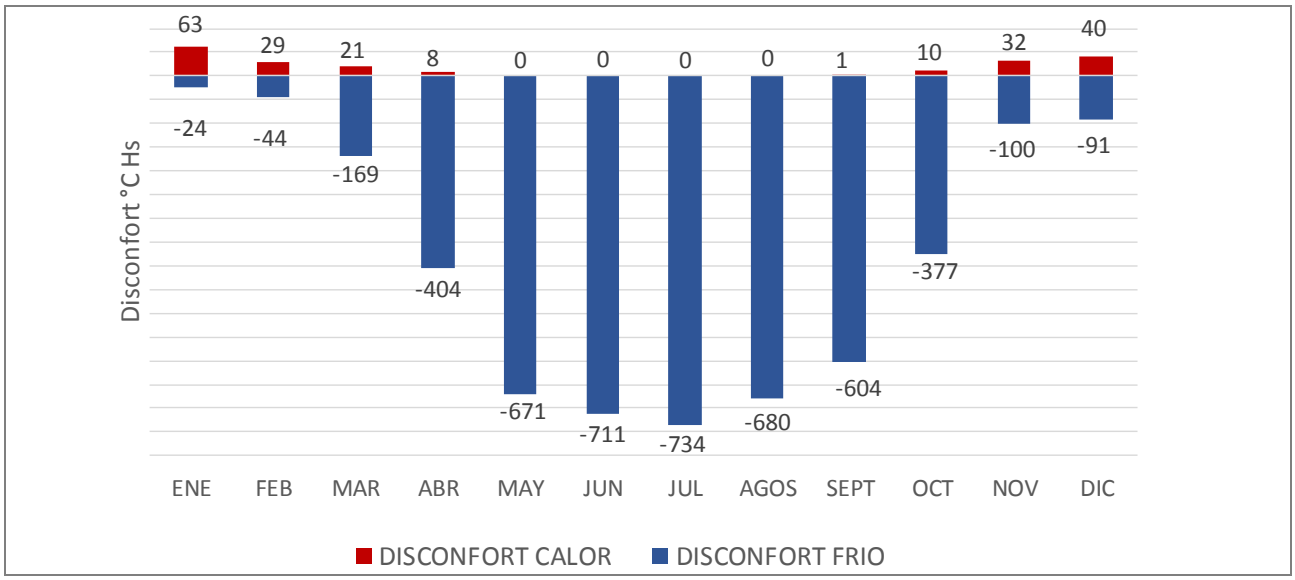




5,39 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-011 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

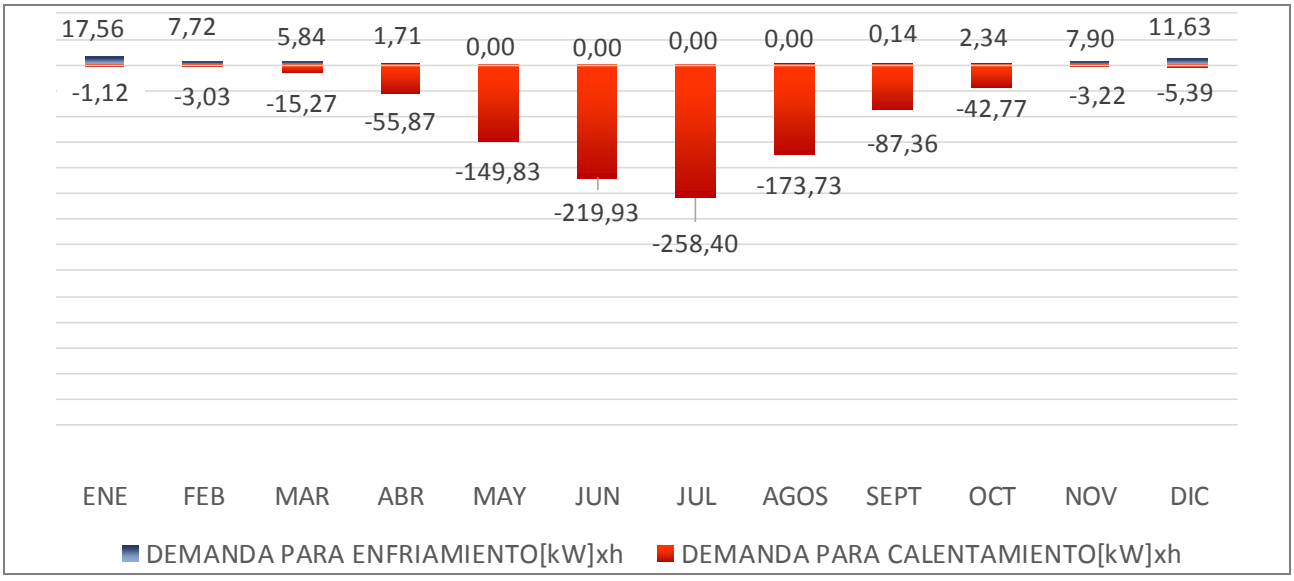
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **203** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.609** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.812** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

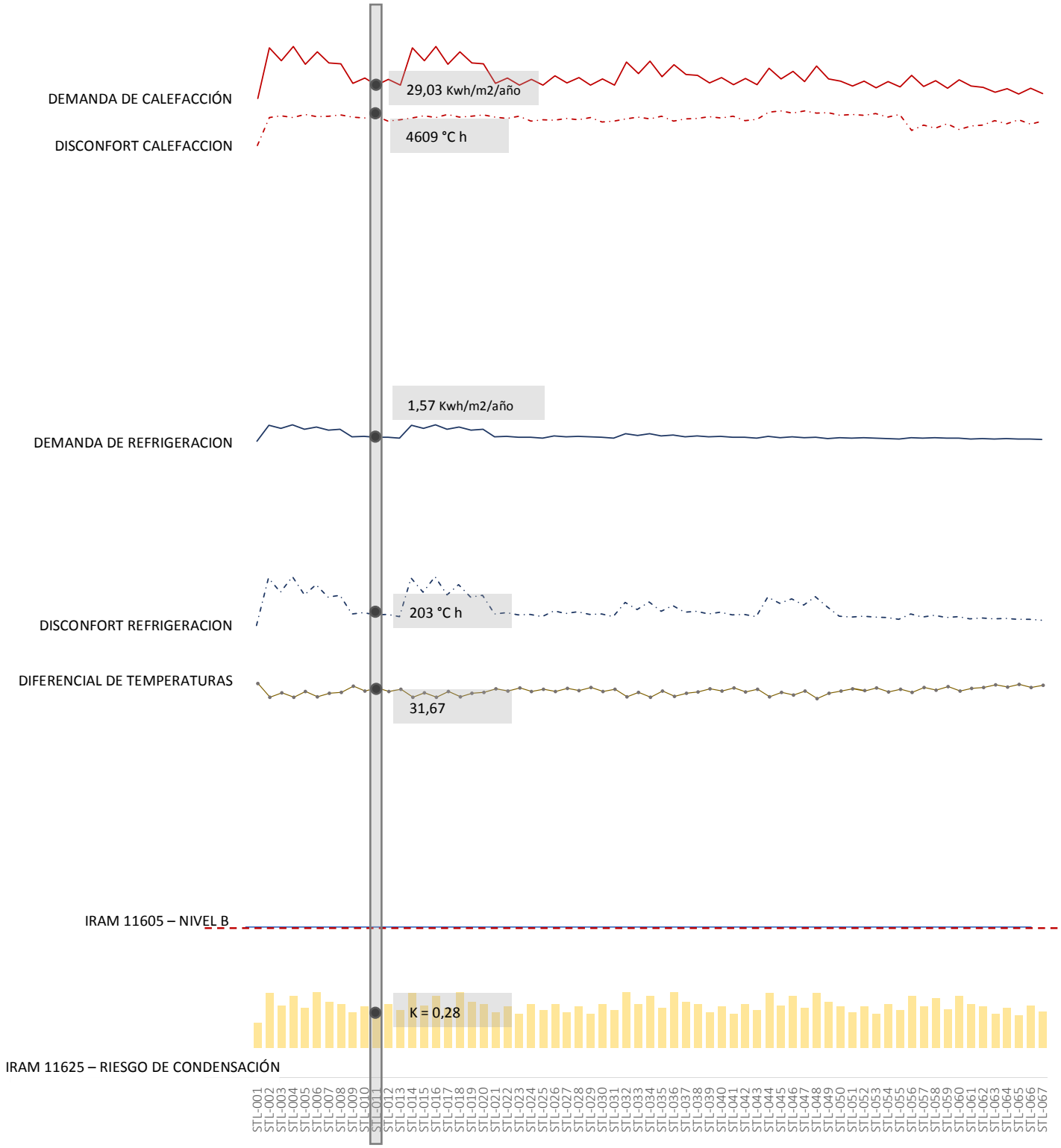



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **54,85** | kWh | 1,57 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.015,93** | kWh | 29,03 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.070,77** | kWh | **30,59** | kWh/m2/año |

| STL-011 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 007 | N° 024 | N° 028 | N° 112 | N° 167 | N° 095 |



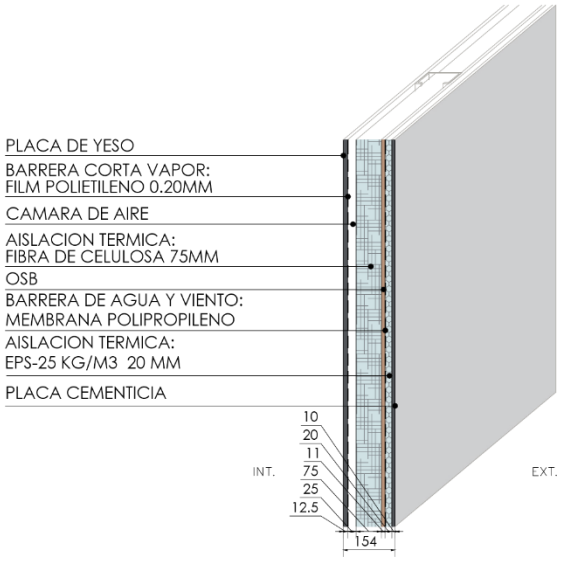

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,28 | 0% | 31,67 | 29,03 | 1,57 | 4609 | 203 |
| INC. FAMILIA | 79,29% | 0% | 101,12% | 91,11% | 62,70% | 100,32% | 72,12% |
| INC. MUNDIAL | 23,54% | 0% | 102,78% | 70,59% | 26,16% | 103,30% | 39,71% |

| STL-012 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

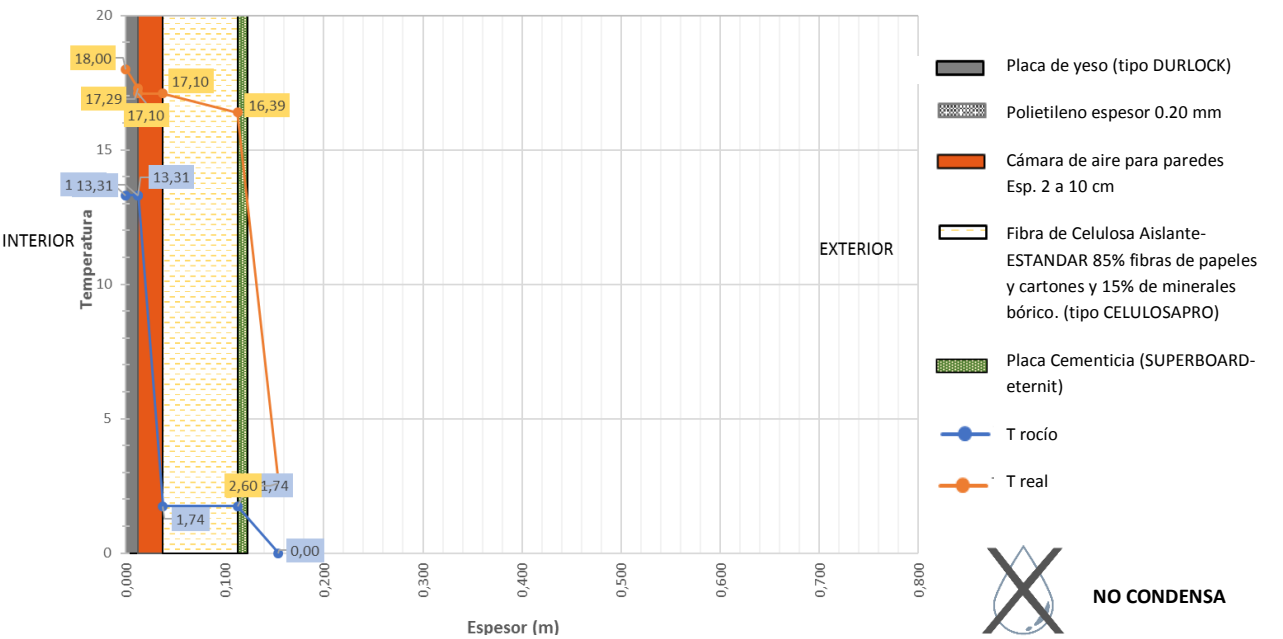
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



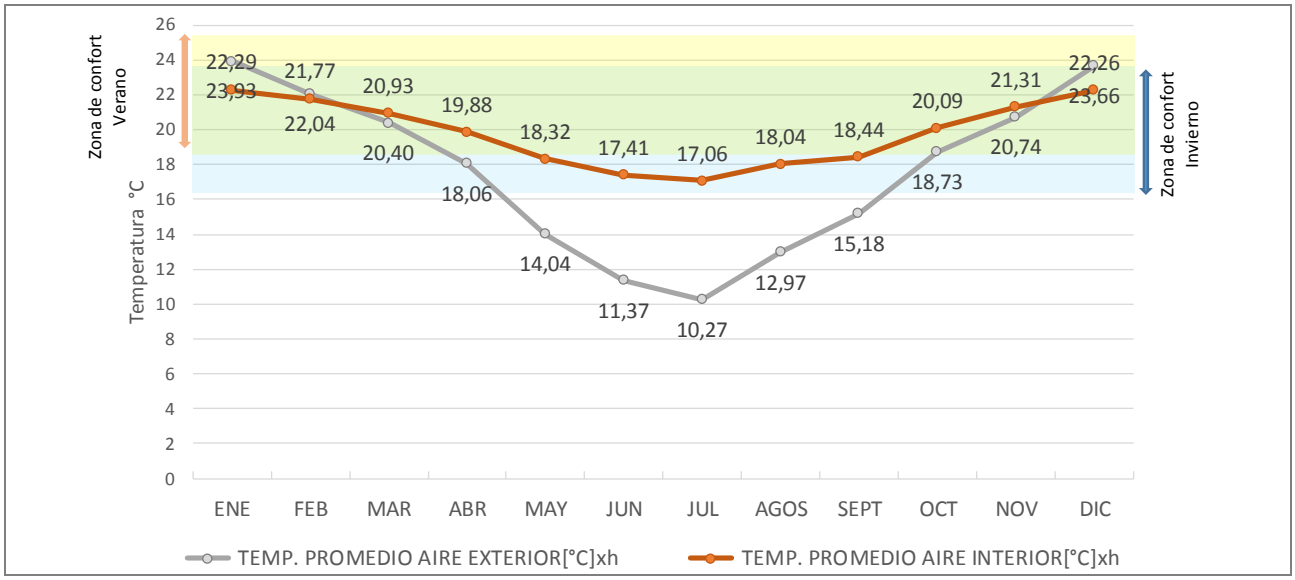

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,6 | 3,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,9** | **6,7** |
| | **Amortiguamiento:** | 0,078 | 0,083 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,8** | **5,2** |
| | **Amortiguamiento:** | 0,218 | 0,257 |

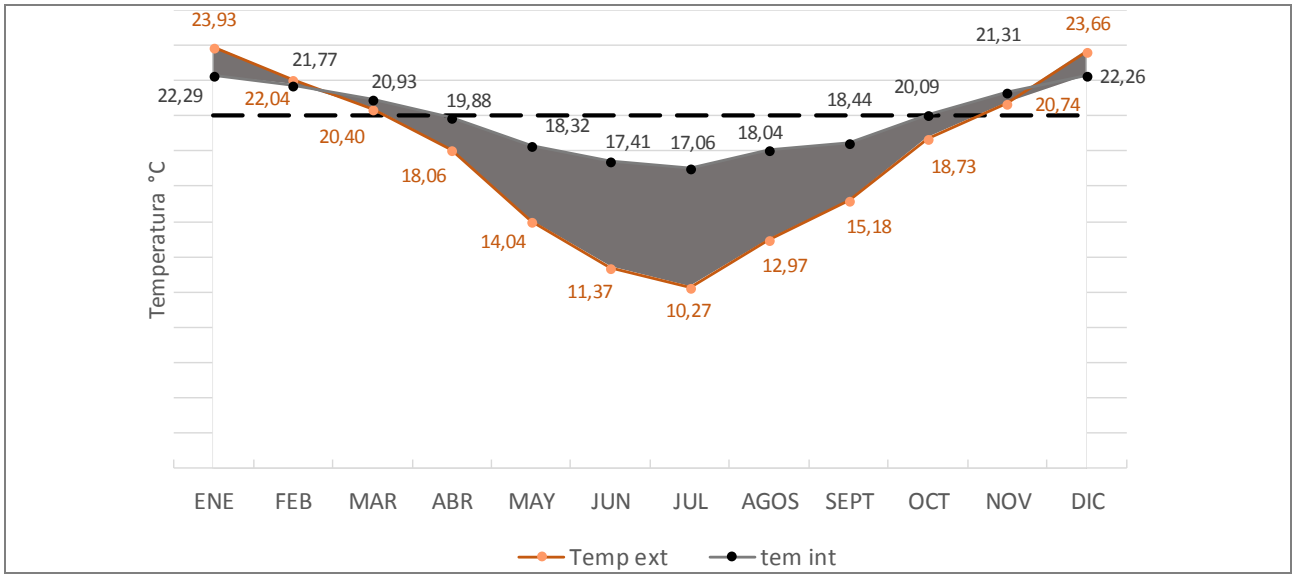
| STL-012 | MU | STEEL FRAME |
|---|---|---|

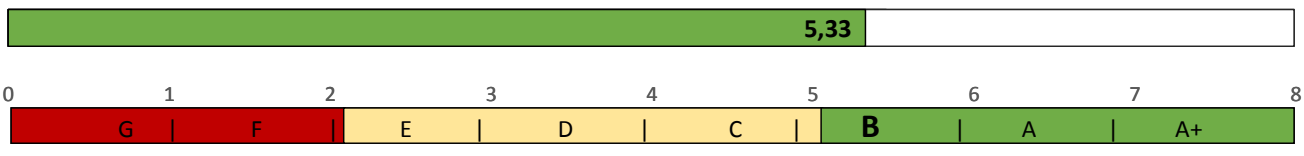
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,98** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,42** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



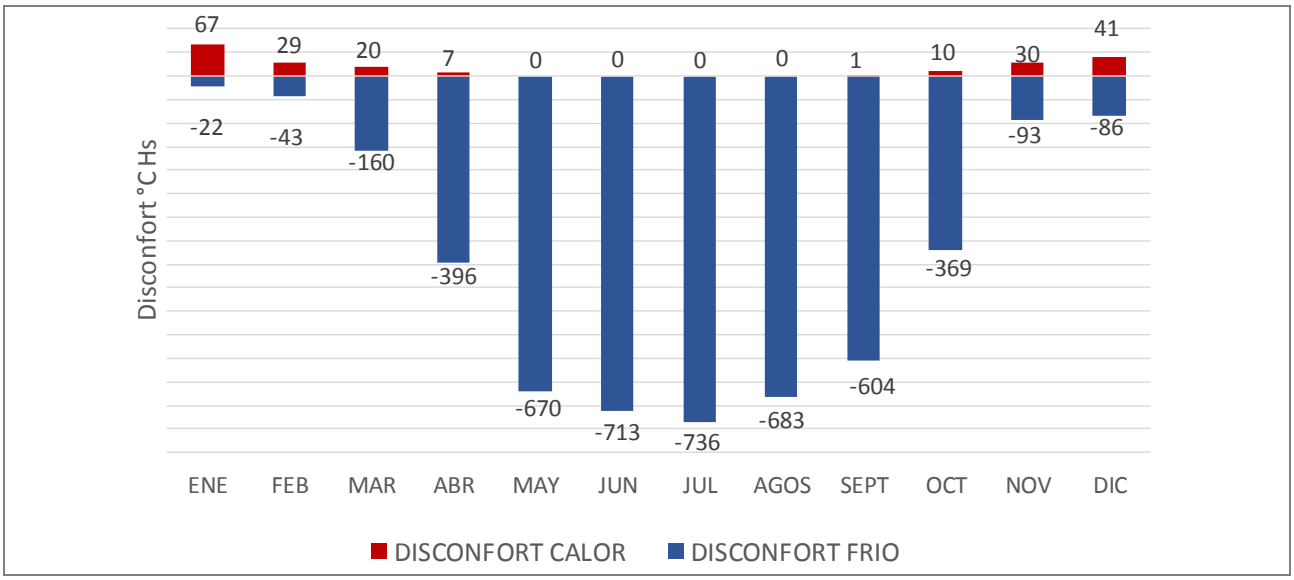




5,33 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-012 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

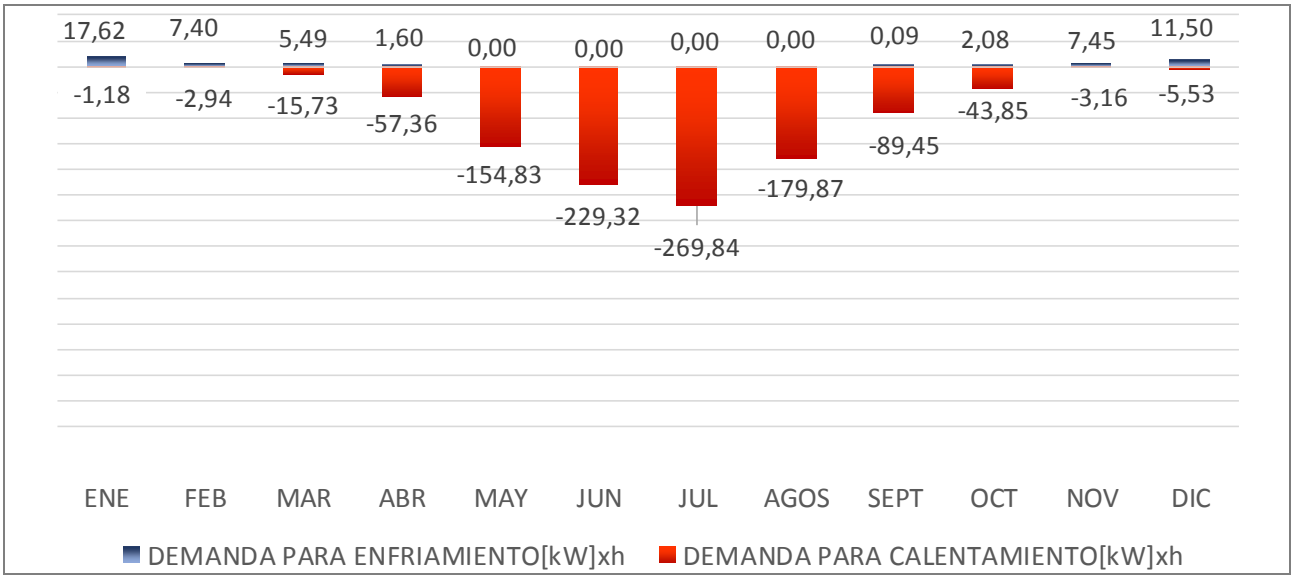
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **205** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.577** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.782** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

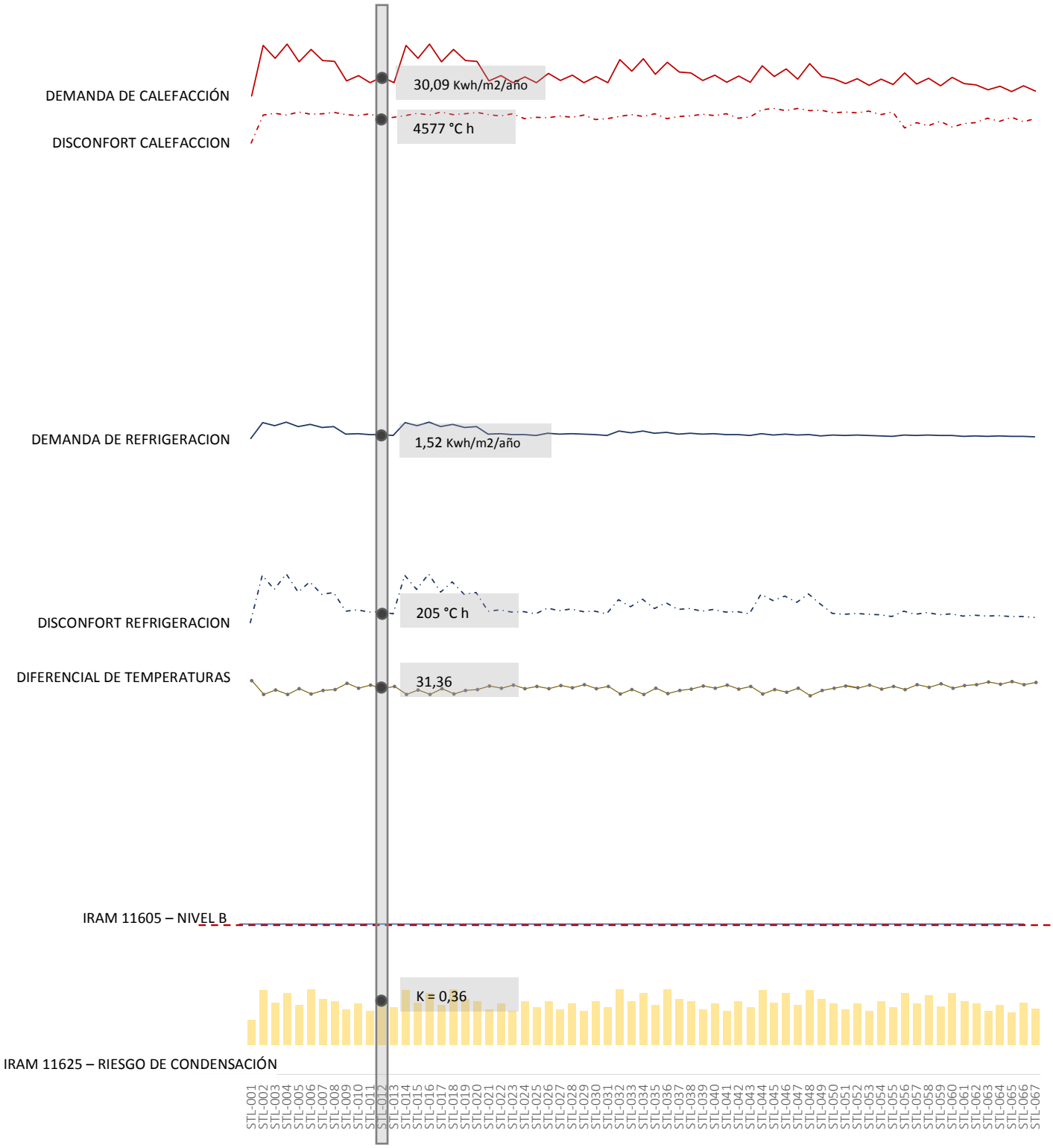



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **53,24** | kWh | 1,52 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.053,06** | kWh | 30,09 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.106,29** | kWh | **31,61** | kWh/m2/año |

| STL-012 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 051 | N° 061 | N° 068 | N° 107 | N° 129 | N° 100 |



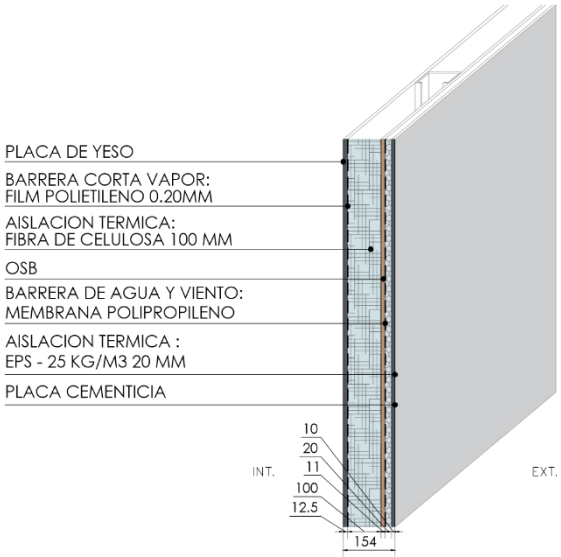

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,36 | 0% | 31,36 | 30,09 | 1,52 | 4577 | 205 |
| INC. FAMILIA | 101,94% | 0% | 100,13% | 94,44% | 60,71% | 99,63% | 72,83% |
| INC. MUNDIAL | 30,27% | 0% | 101,77% | 73,17% | 25,33% | 102,59% | 40,11% |

| STL-013 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE PLACA DE CEMENTO E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

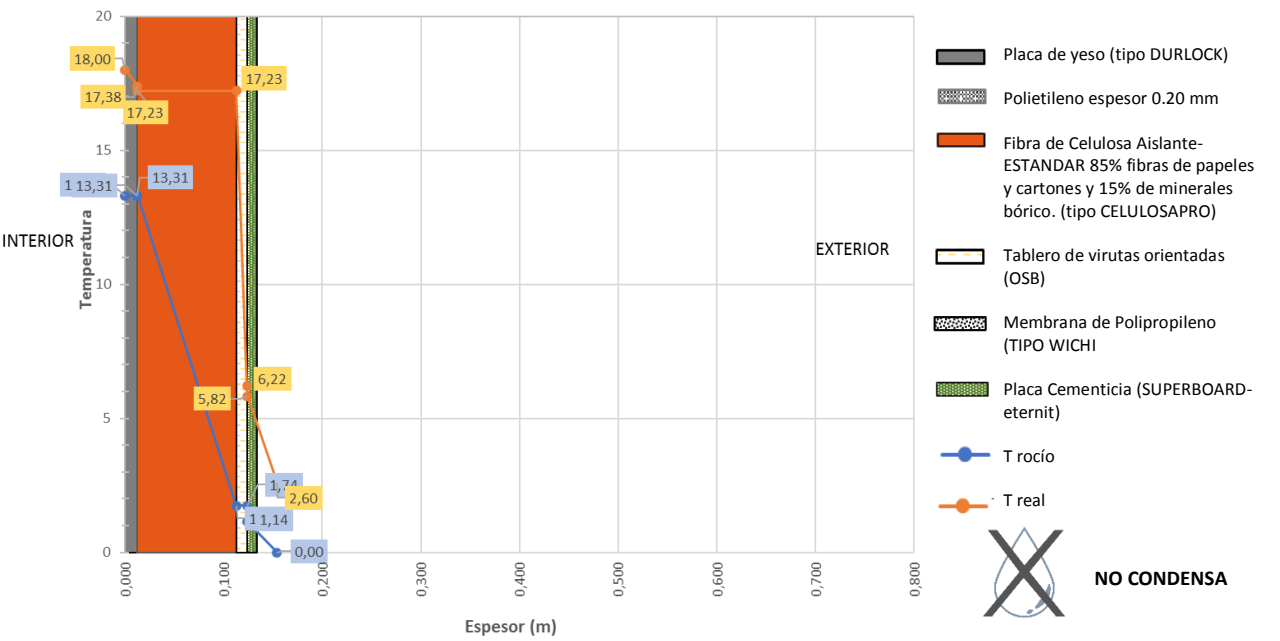
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,31 | 0,31 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



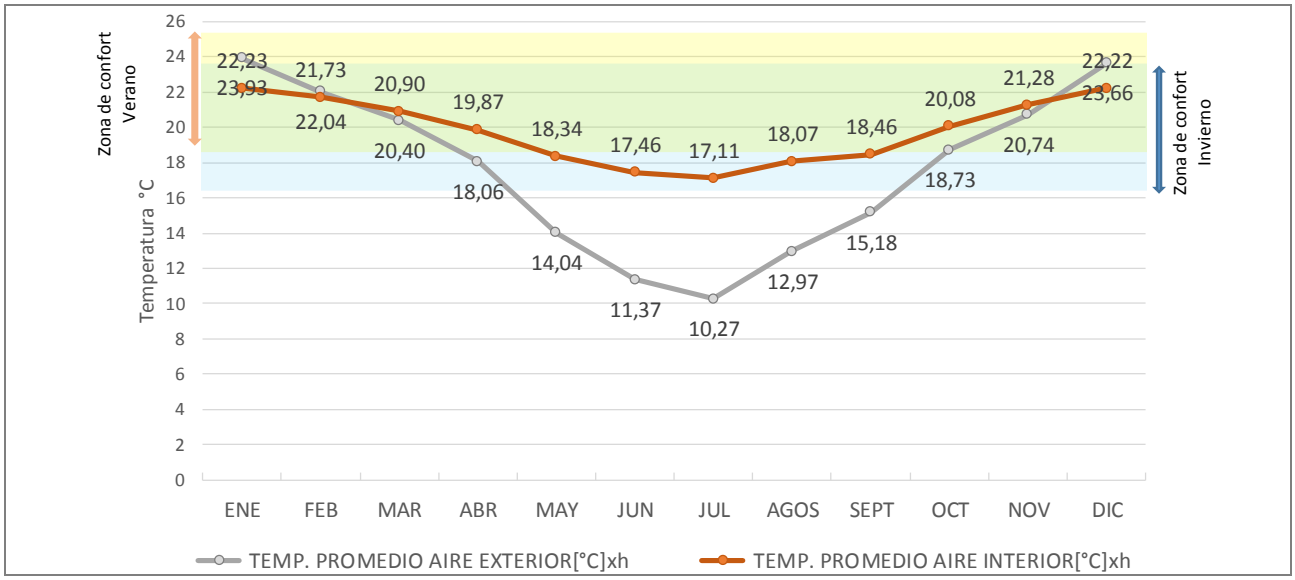

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,4 | 3,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,9** | **7,7** |
| | **Amortiguamiento:** | 0,055 | 0,058 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,5** | **5,9** |
| | **Amortiguamiento:** | 0,183 | 0,215 |

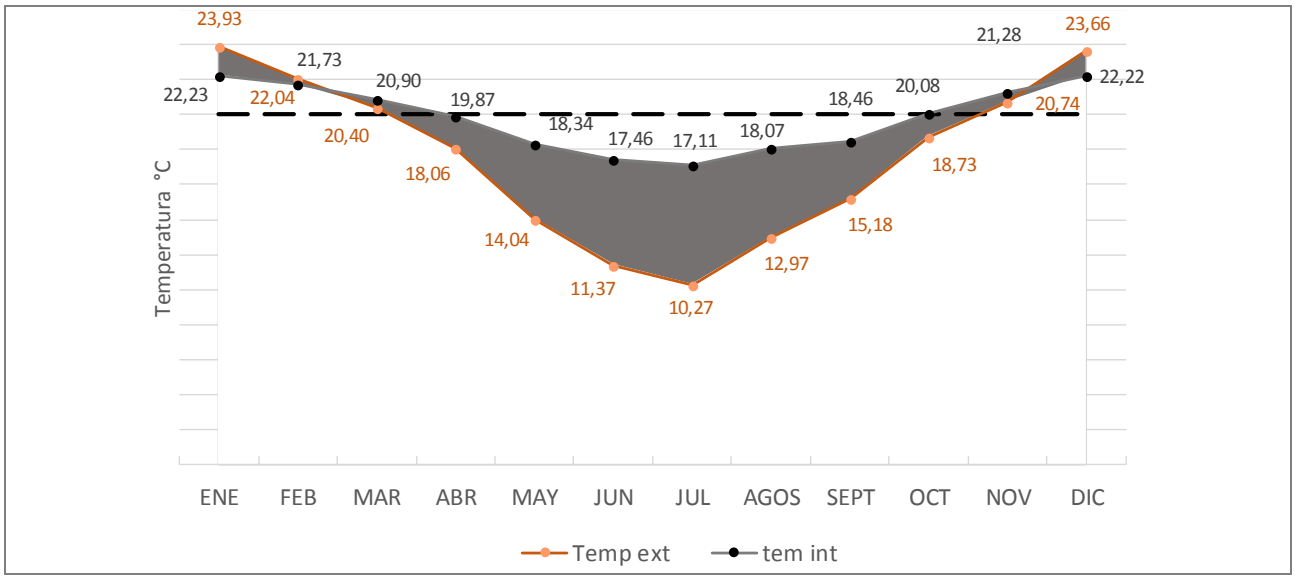
| STL-013 | MU | STEEL FRAME |
|---|---|---|

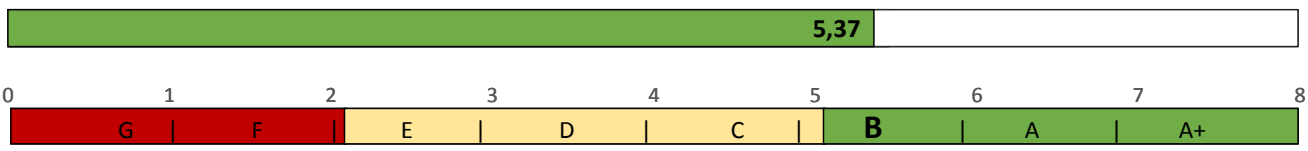
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,79** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,62** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



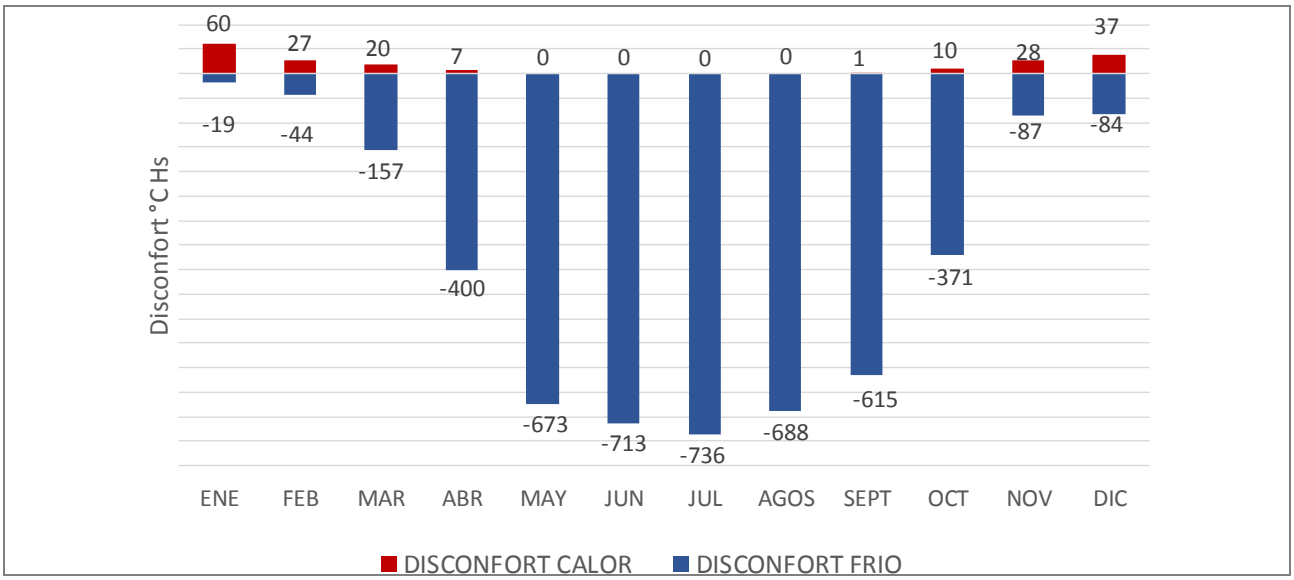




5,37 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-013 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

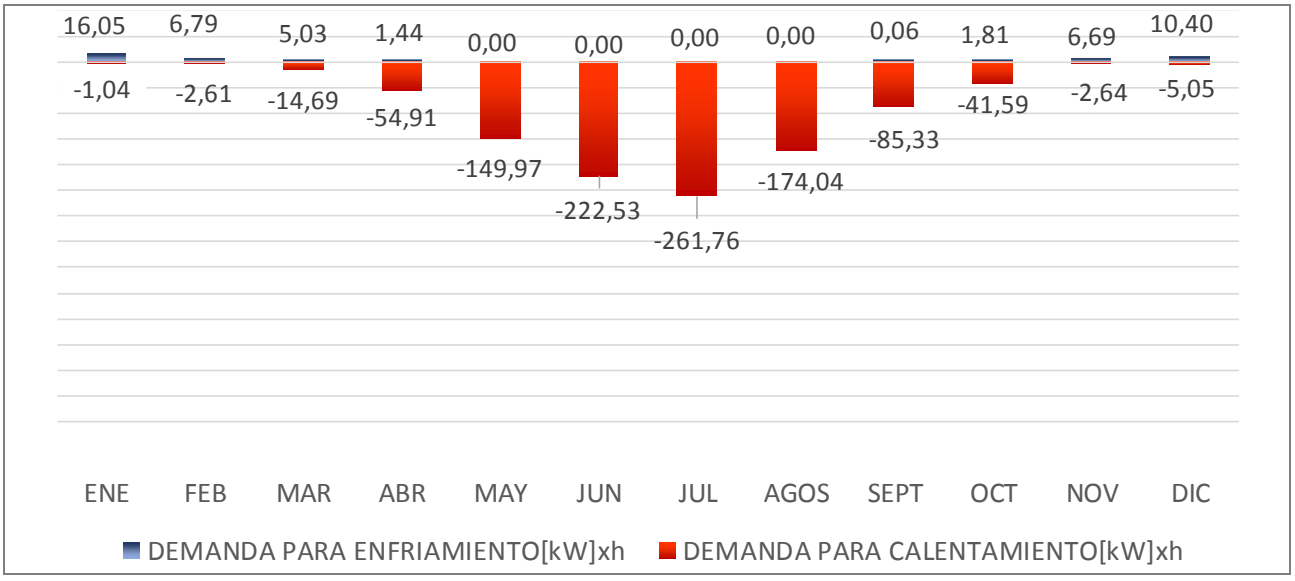
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **189** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.586** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.775** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

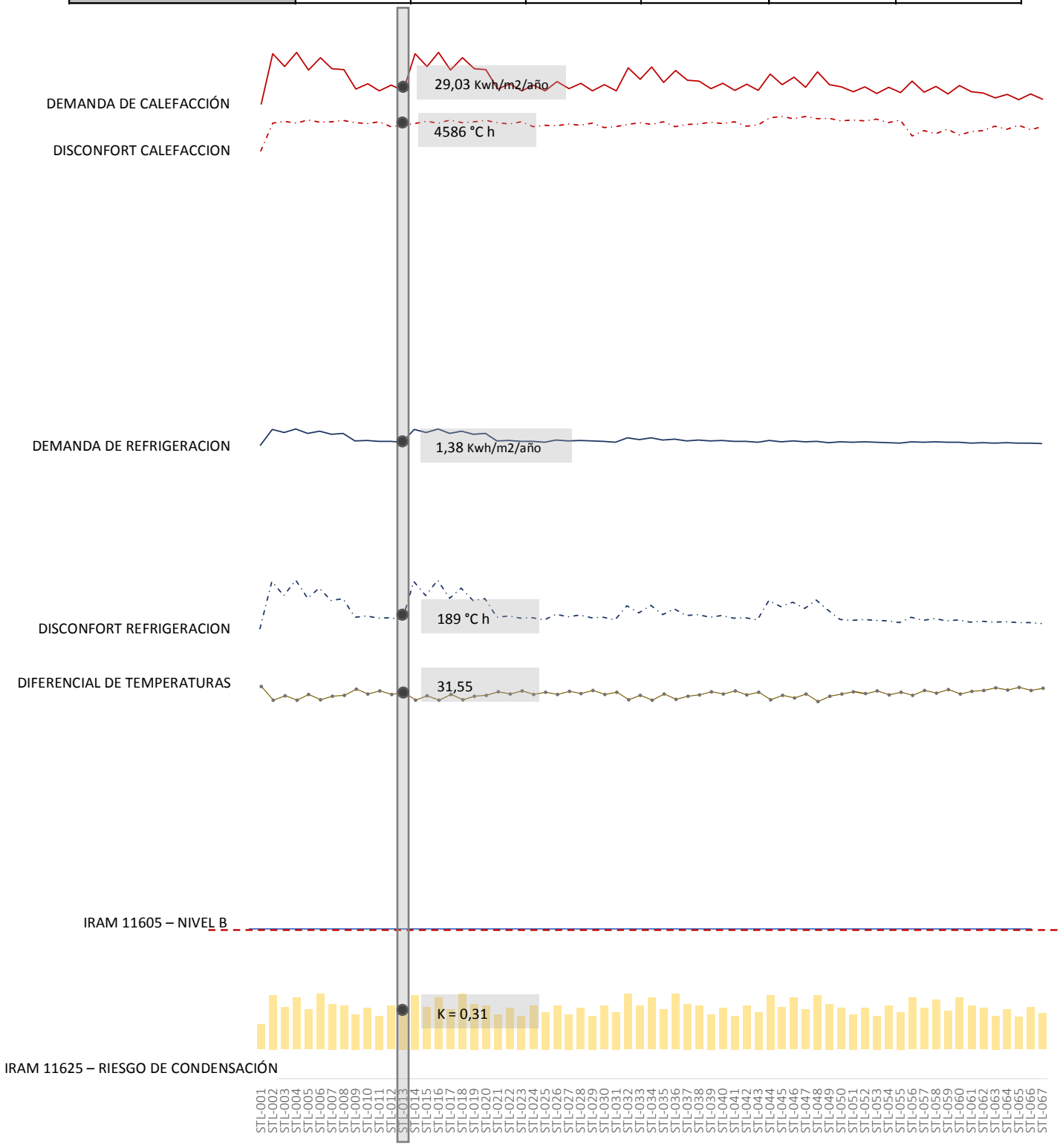



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **48,28** | kWh | 1,38 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.016,16** | kWh | 29,03 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.064,45** | kWh | **30,41** | kWh/m2/año |

| STL-013 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 020 | N° 035 | N° 029 | N° 196 | N° 141 | N° 071 |



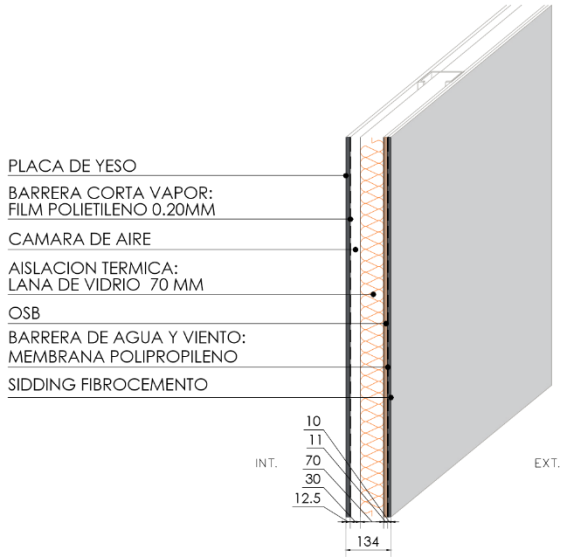

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,31 | 0% | 31,55 | 29,03 | 1,38 | 4586 | 189 |
| INC. FAMILIA | 87,79% | 0% | 100,74% | 91,11% | 55,11% | 99,82% | 67,15% |
| INC. MUNDIAL | 26,06% | 0% | 102,39% | 70,59% | 22,99% | 102,79% | 36,98% |

| STL-014 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 70MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

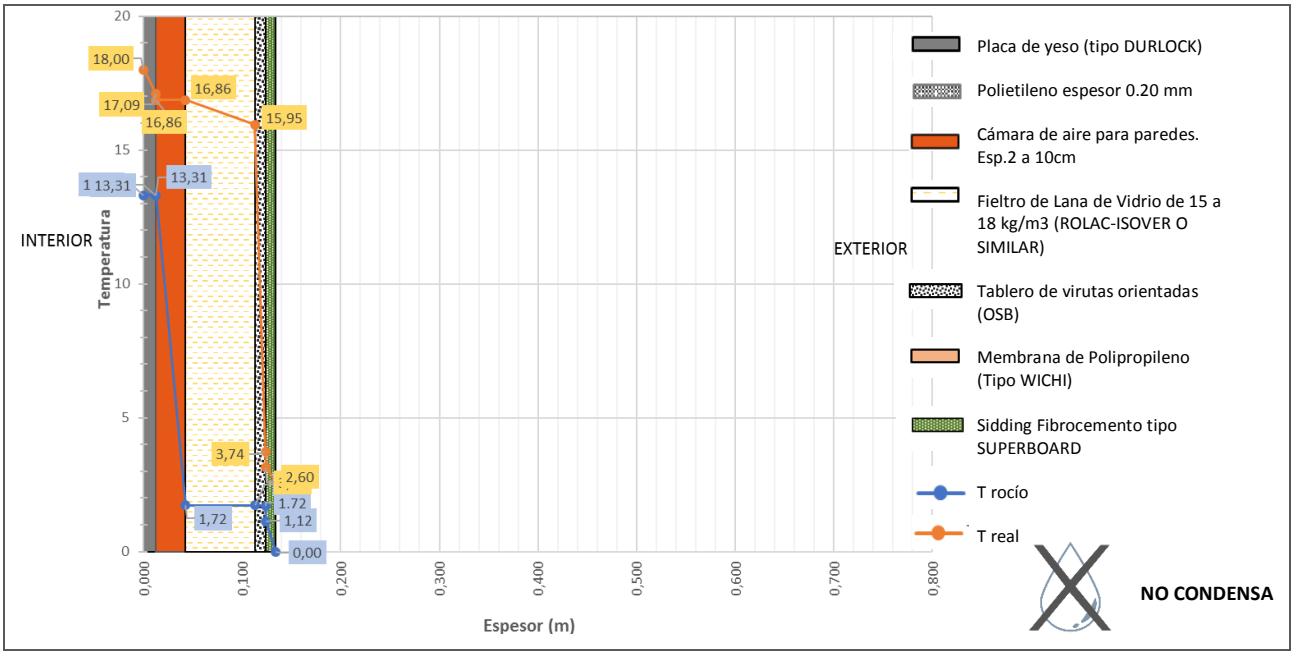
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,45 | 0,45 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



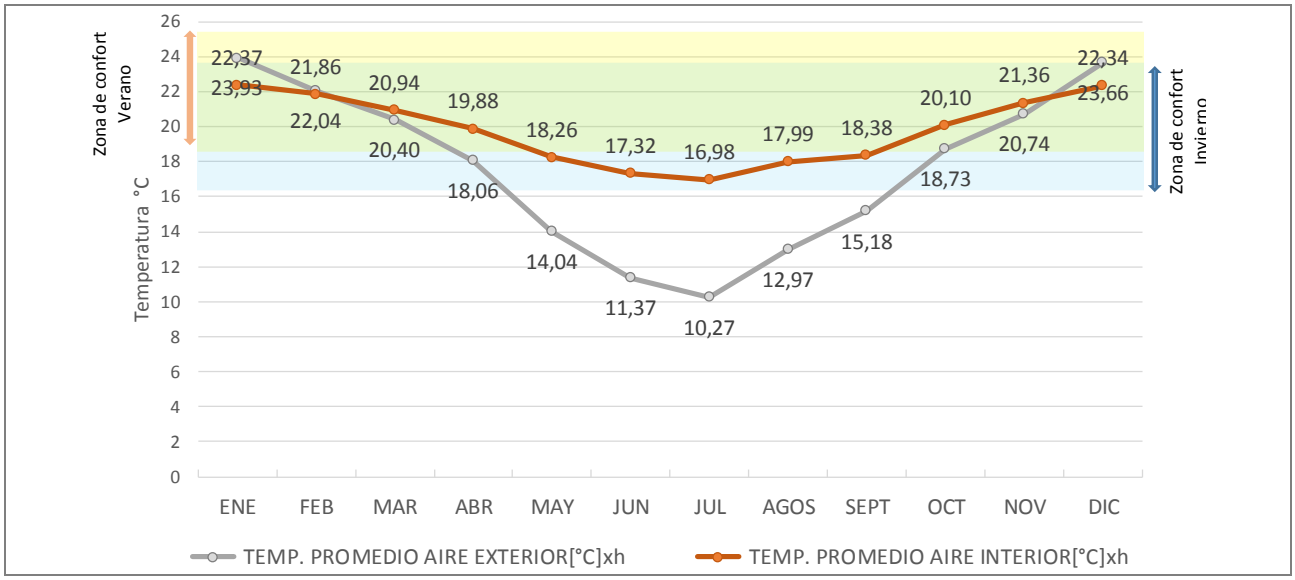

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,0 | 2,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **4,9** | **4,8** |
| | **Amortiguamiento:** | 0,166 | 0,170 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,8** | **3,4** |
| | **Amortiguamiento:** | 0,284 | 0,406 |

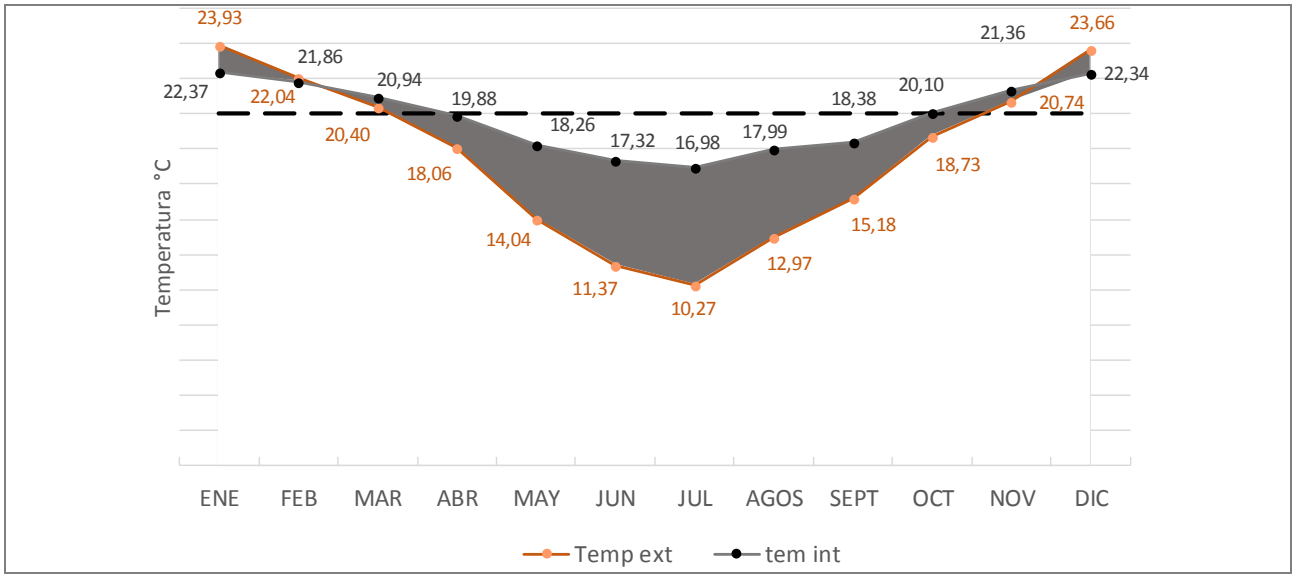
| STL-014 | MU | STEEL FRAME |
|---|---|---|

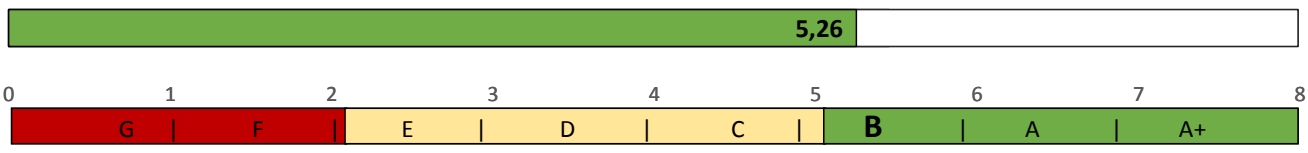
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,53** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,27** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



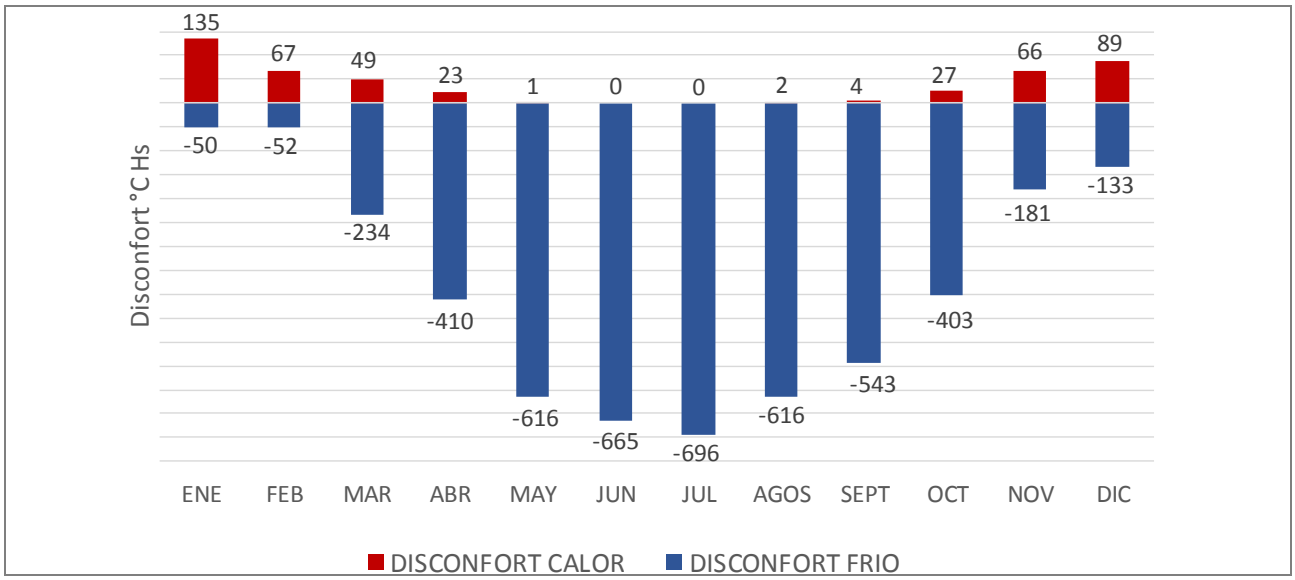




5,26 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-014 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

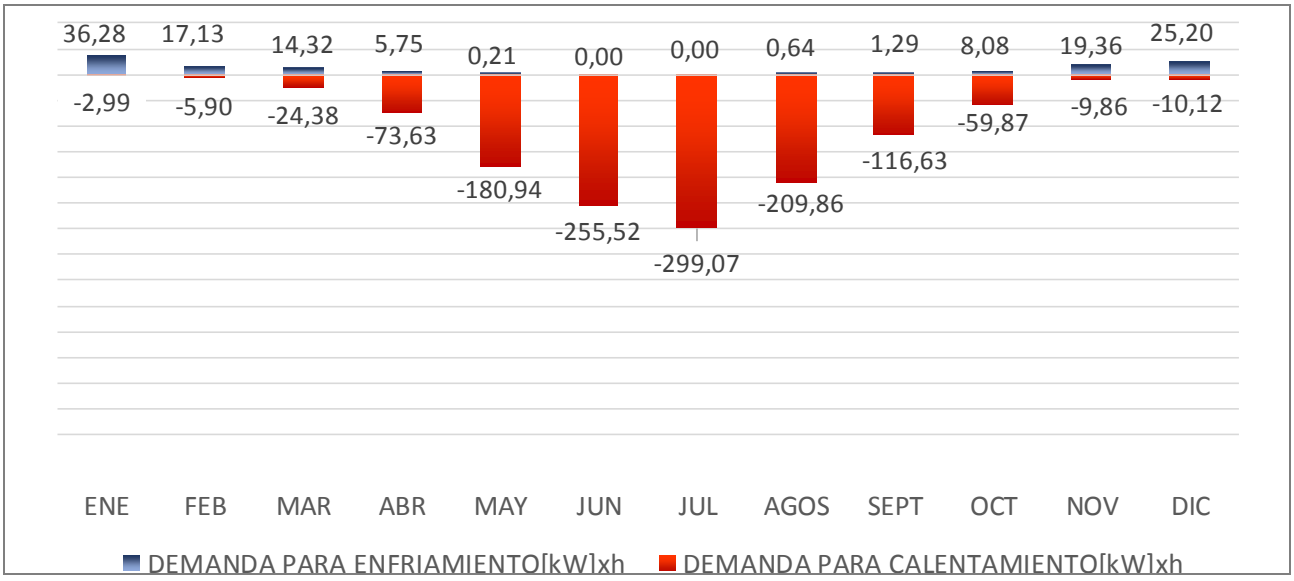
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **465** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.598** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.063** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

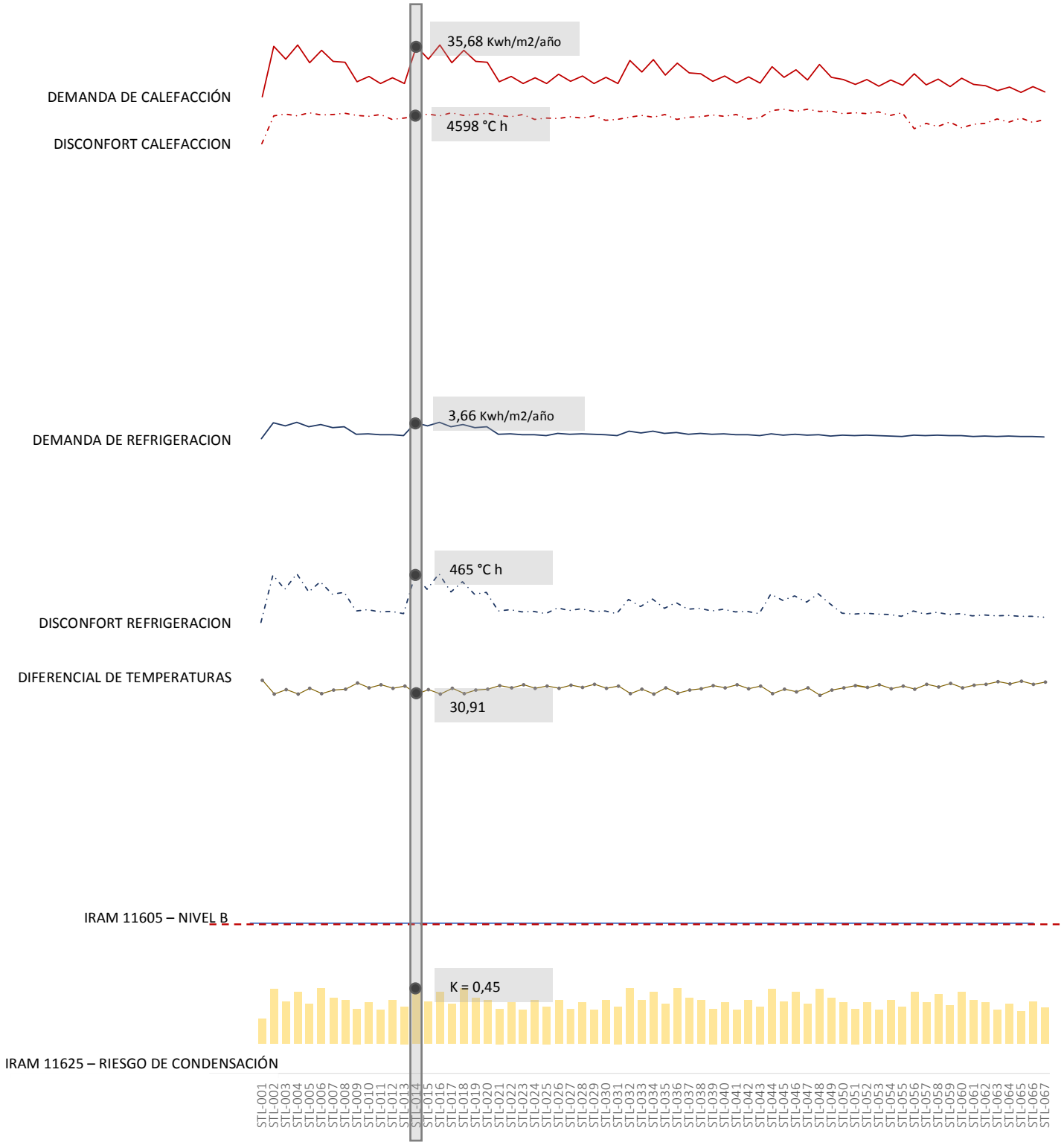



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **128,25** | kWh | 3,66 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.248,77** | kWh | 35,68 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.377,01** | kWh | **39,34** | kWh/m2/año |

| STL-014 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 095 | N° 123 | N° 153 | N° 176 | N° 152 | N° 171 |



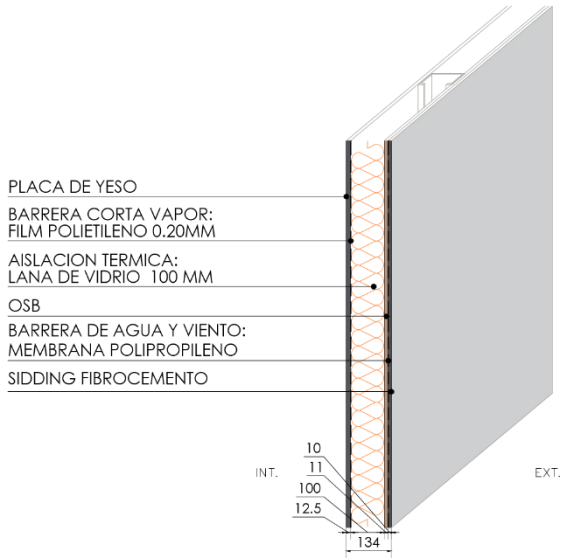

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,45 | 0% | 30,91 | 35,68 | 3,66 | 4598 | 465 |
| INC. FAMILIA | 127,43% | 0% | 98,69% | 111,98% | 146,17% | 100,08% | 165,20% |
| INC. MUNDIAL | 37,83% | 0% | 100,31% | 86,76% | 60,98% | 103,06% | 90,97% |

| STL-015 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR

## INDICE DE TRANSMITANCIA TERMICA "K"

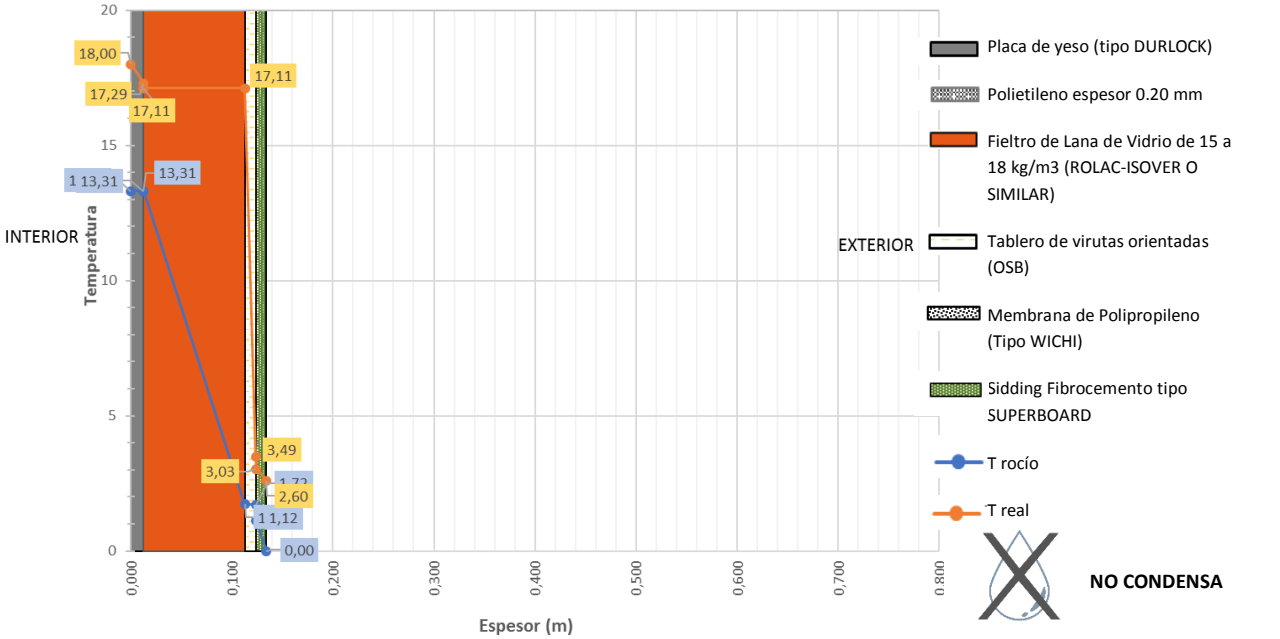
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,35 | 0,35 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



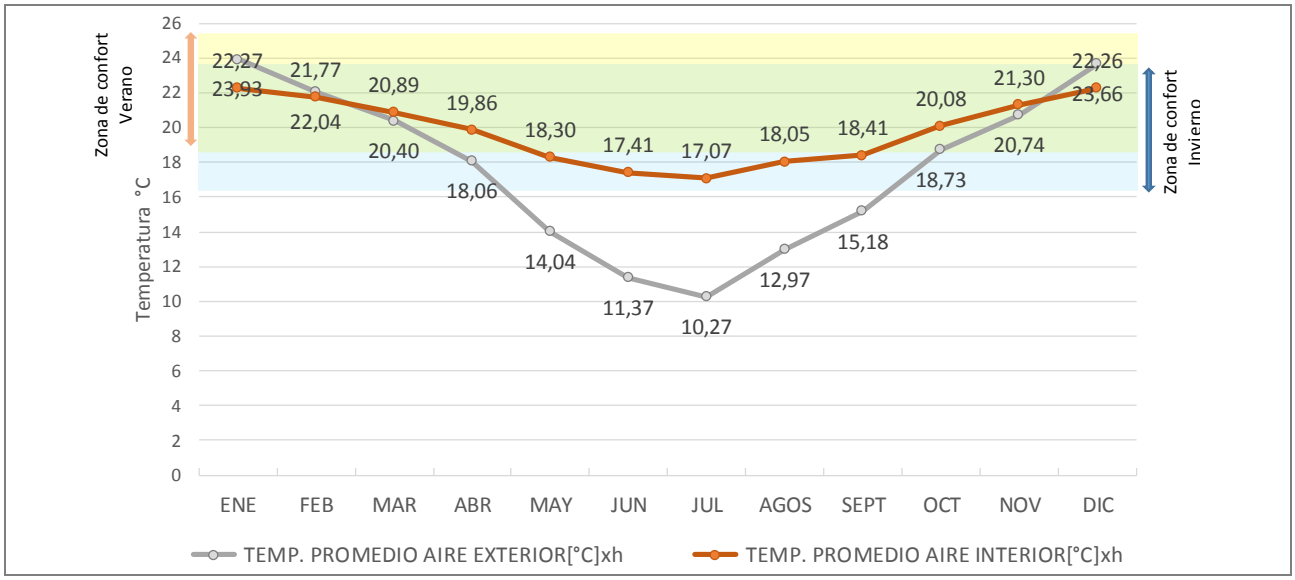

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,3 | 2,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,5** | **5,5** |
| | **Amortiguamiento:** | 0,128 | 0,132 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,4** | **3,9** |
| | **Amortiguamiento:** | 0,240 | 0,361 |

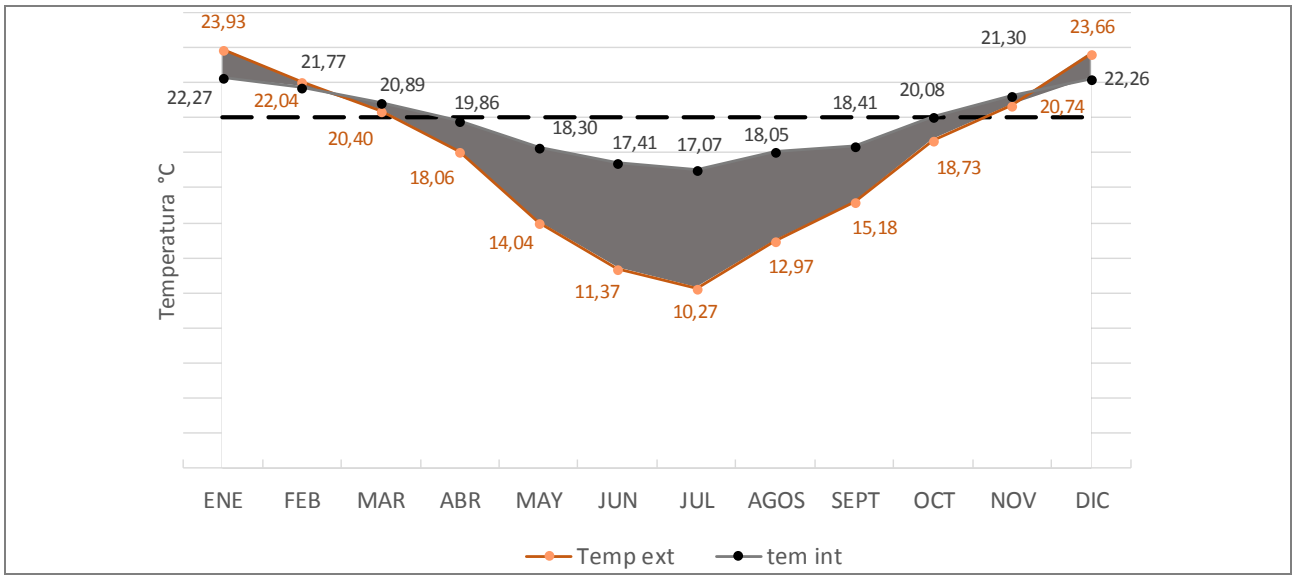
| STL-015 | MU | STEEL FRAME |
|---|---|---|

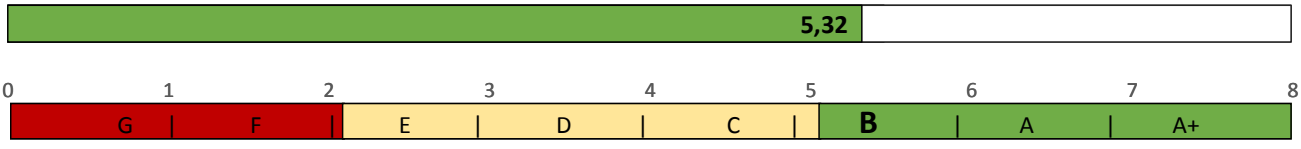
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 1:00 hs | **24,14** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,66** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



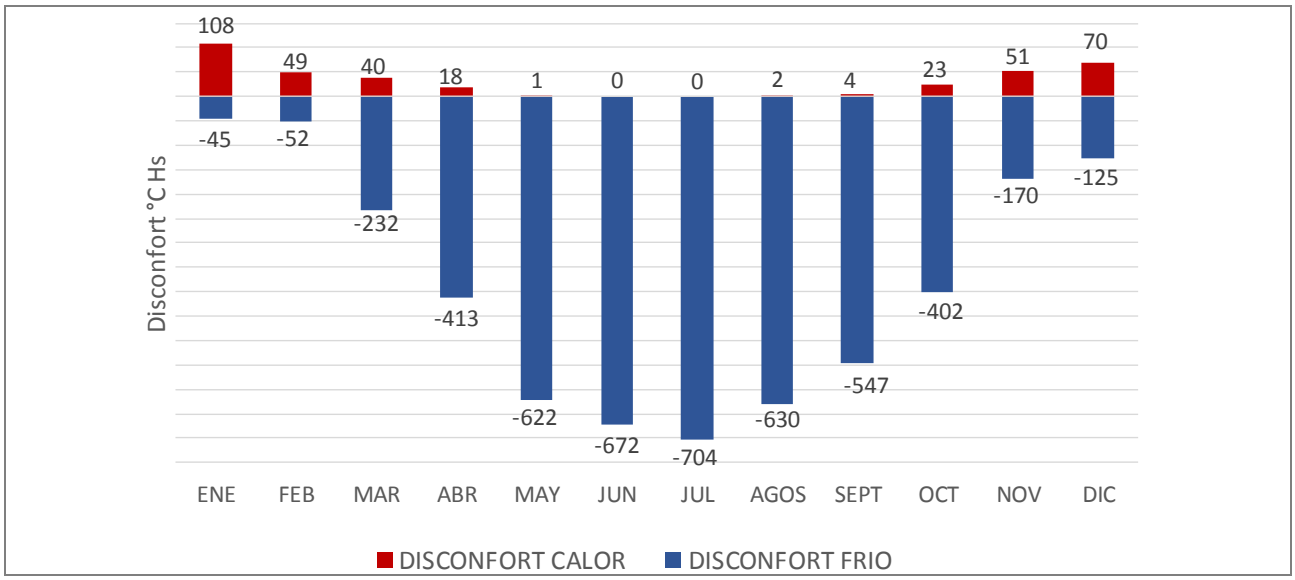




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-015 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

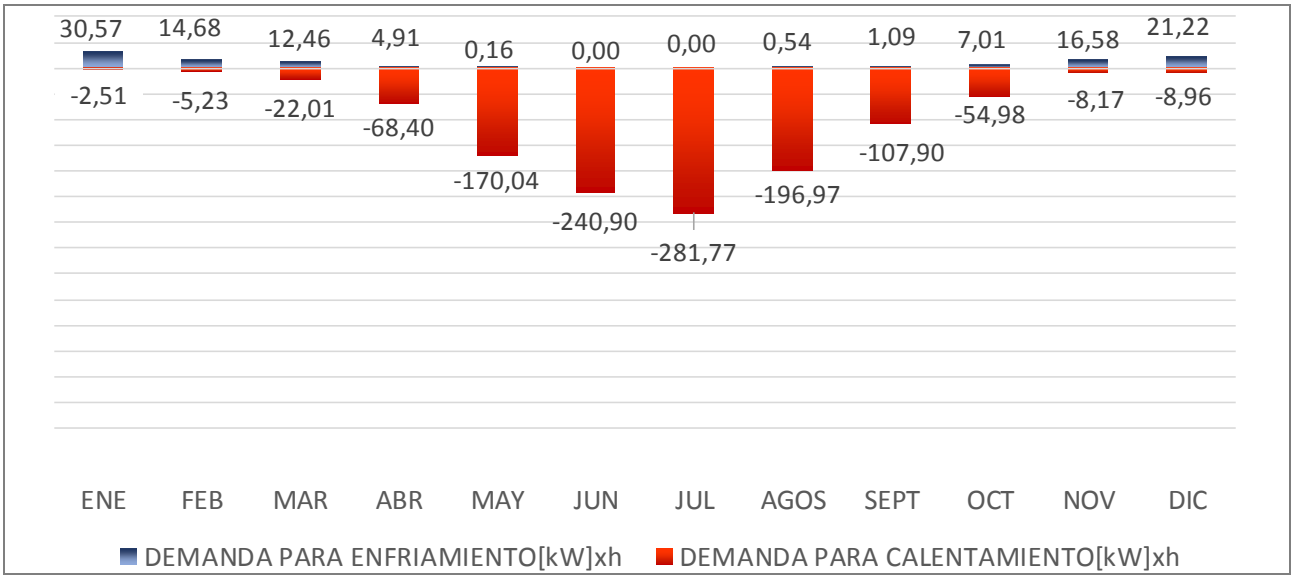
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **365** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.612** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.978** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

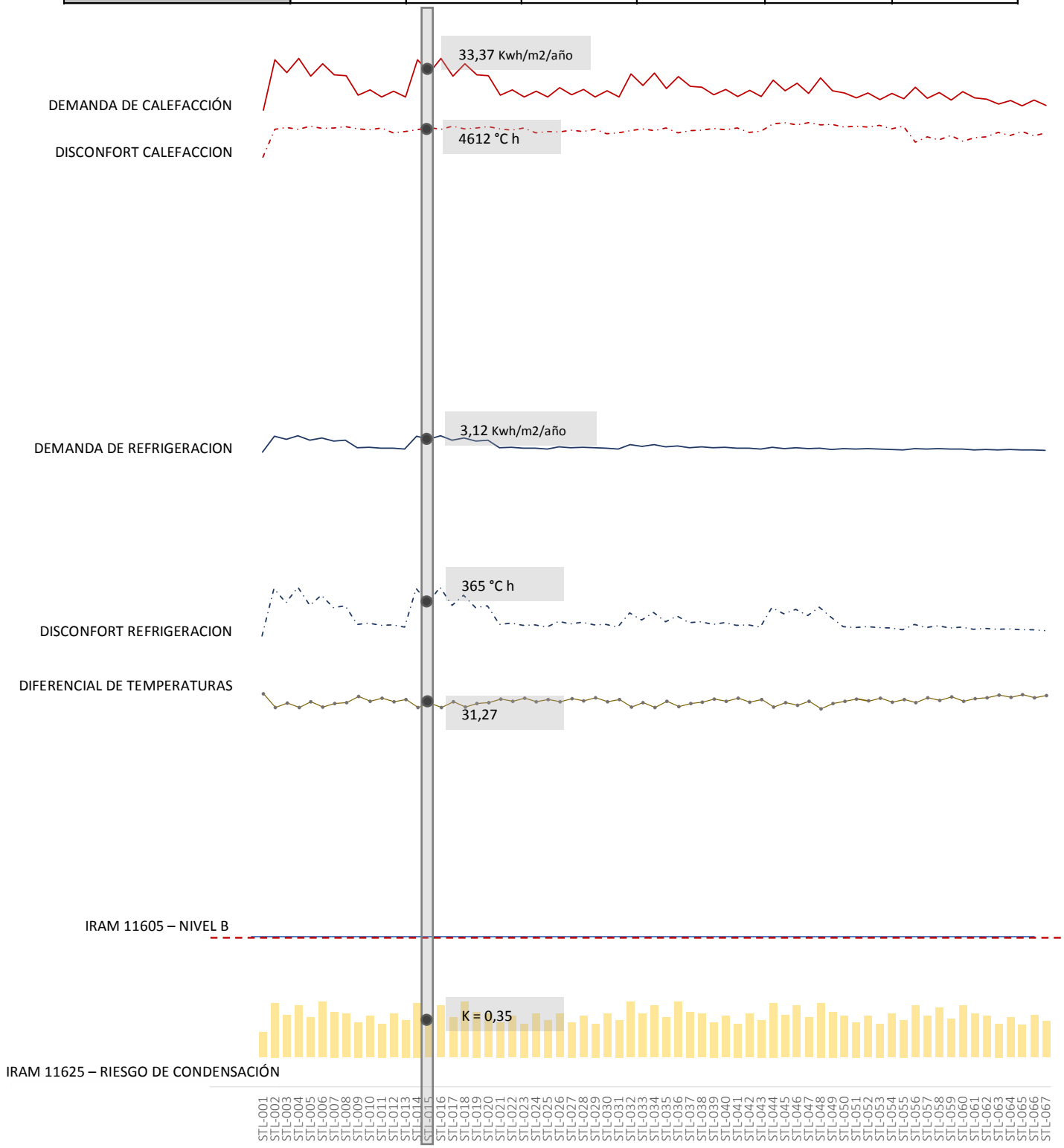



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **109,23** | kWh | 3,12 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.167,85** | kWh | 33,37 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.277,08** | kWh | **36,49** | kWh/m2/año |

| STL-015 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 046 | N° 081 | N° 141 | N° 170 | N° 173 | N° 160 |



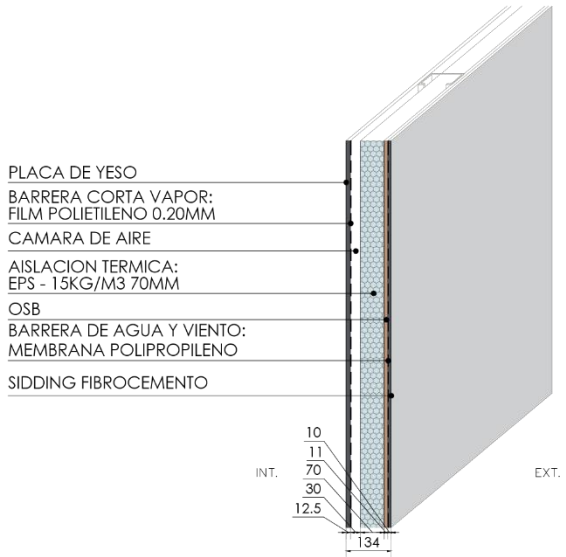

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,35 | 0% | 31,27 | 33,37 | 3,12 | 4612 | 365 |
| INC. FAMILIA | 99,11% | 0% | 99,84% | 104,73% | 124,61% | 100,39% | 129,67% |
| INC. MUNDIAL | 29,43% | 0% | 101,48% | 81,14% | 51,99% | 103,37% | 71,41% |

| STL-016 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 70MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

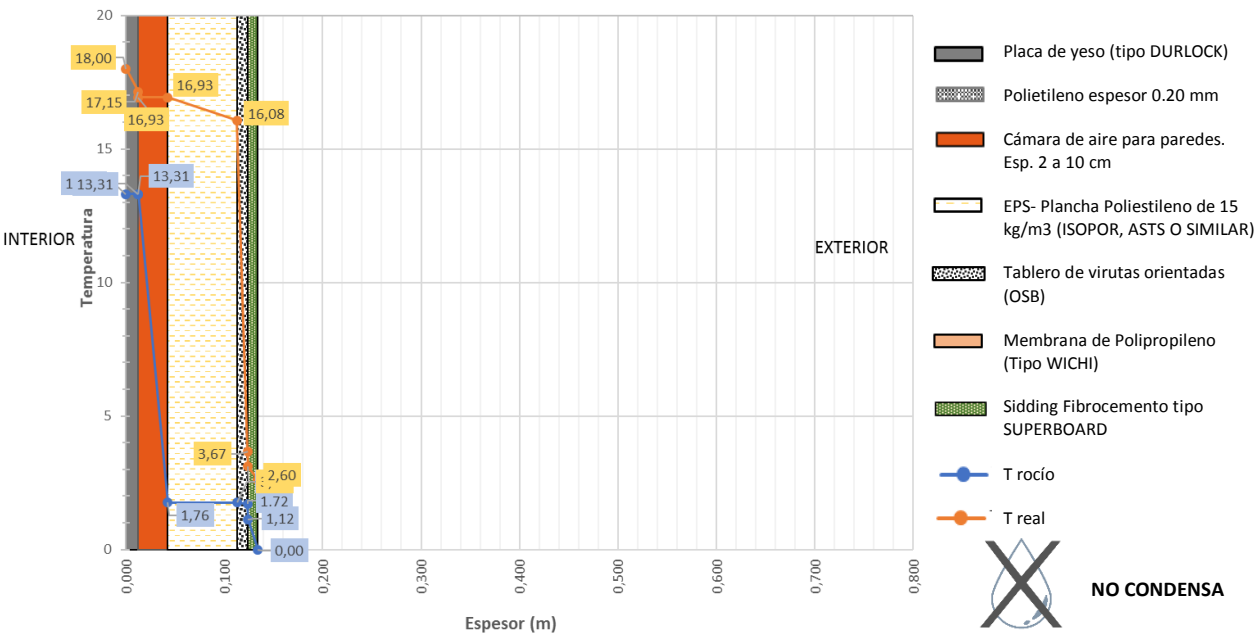
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,43 | 0,43 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



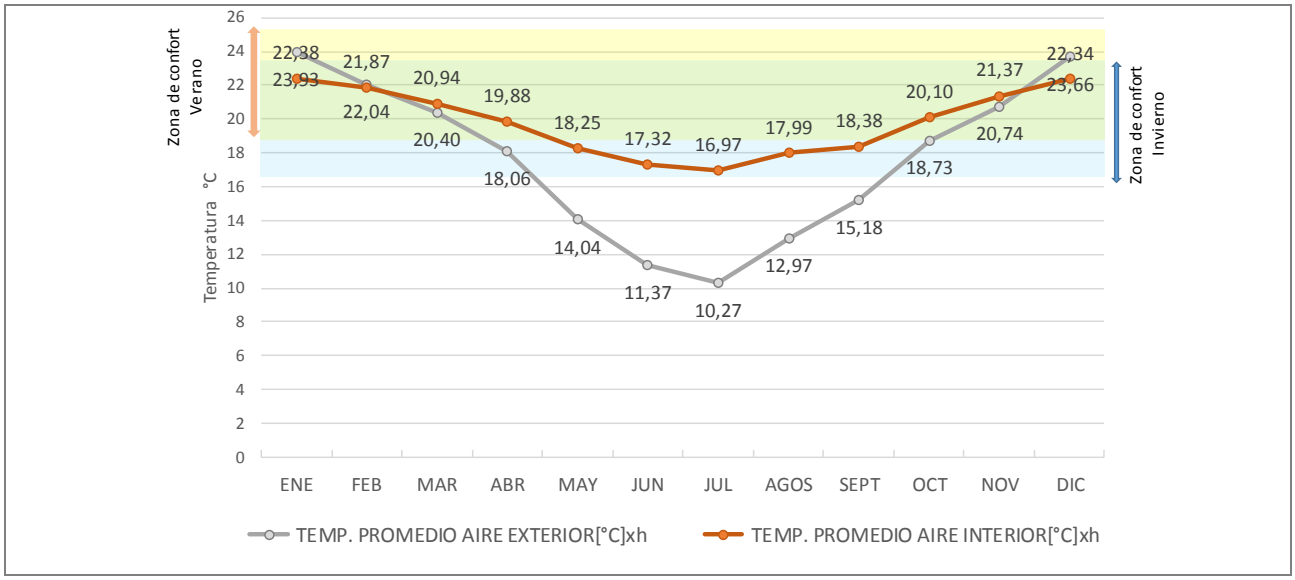

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,8 | 2,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,0** | **4,9** |
| | **Amortiguamiento:** | 0,156 | 0,160 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,0** | **3,5** |
| | **Amortiguamiento:** | 0,273 | 0,395 |

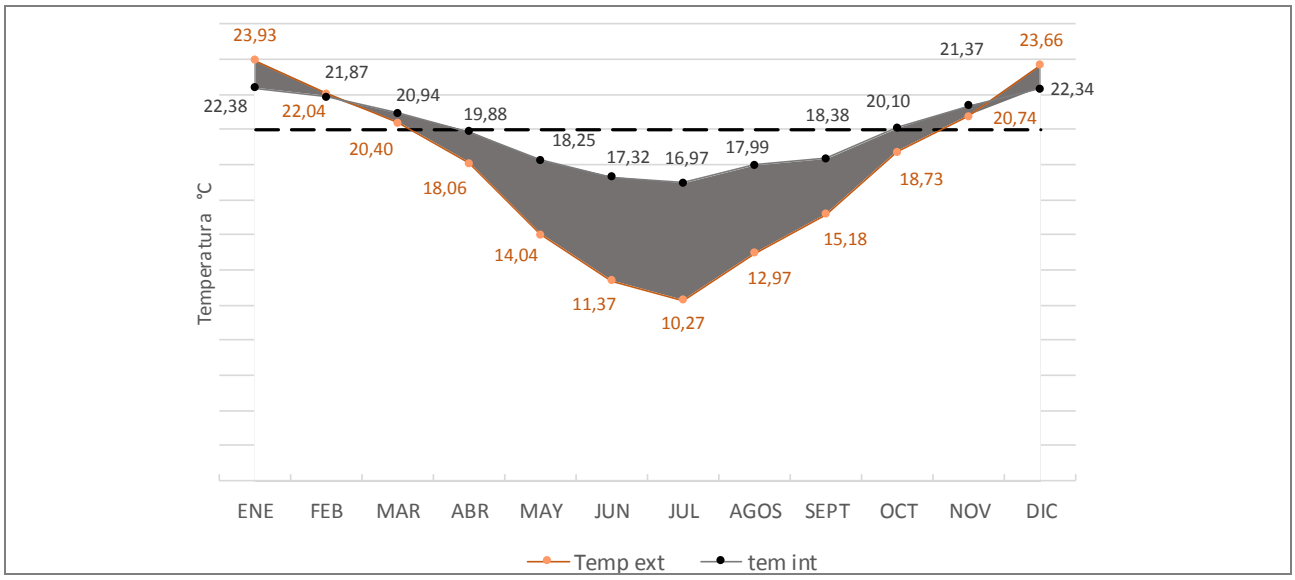
| STL-016 | MU | STEEL FRAME |
|---|---|---|

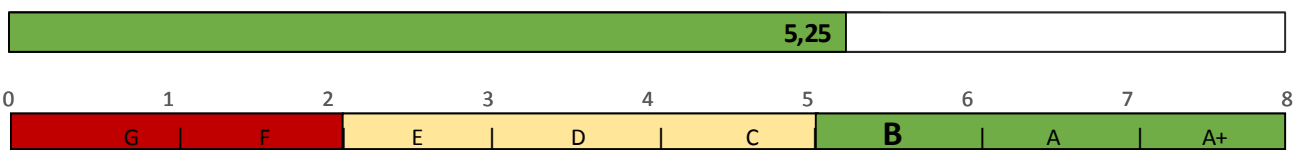
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,56** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,24** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



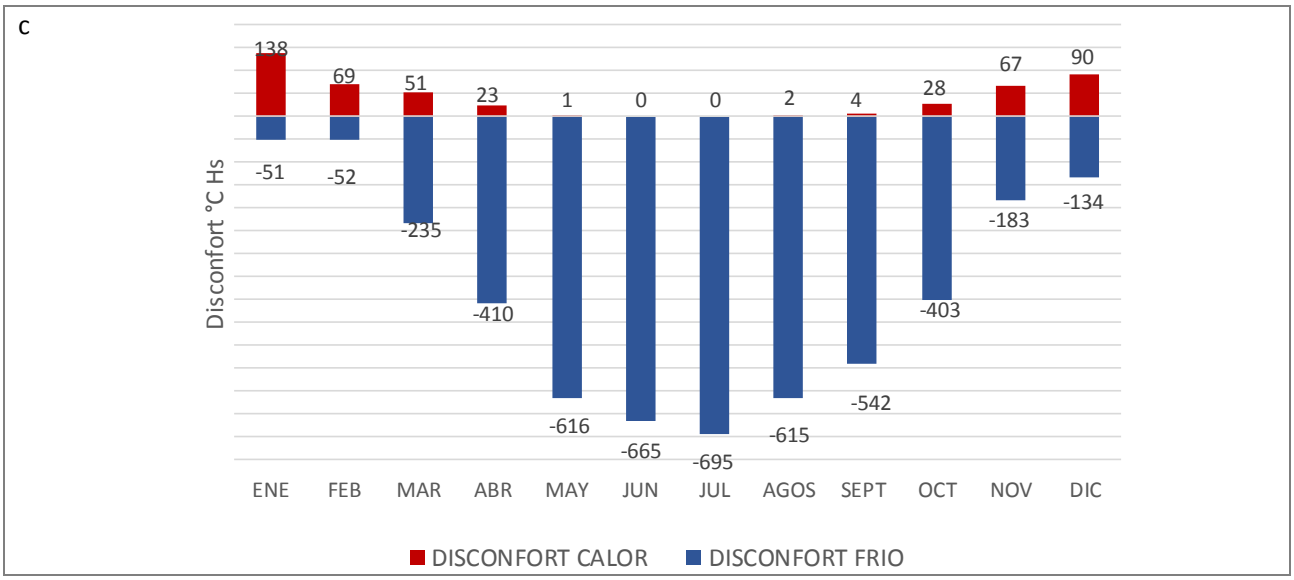




5,25 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-016 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

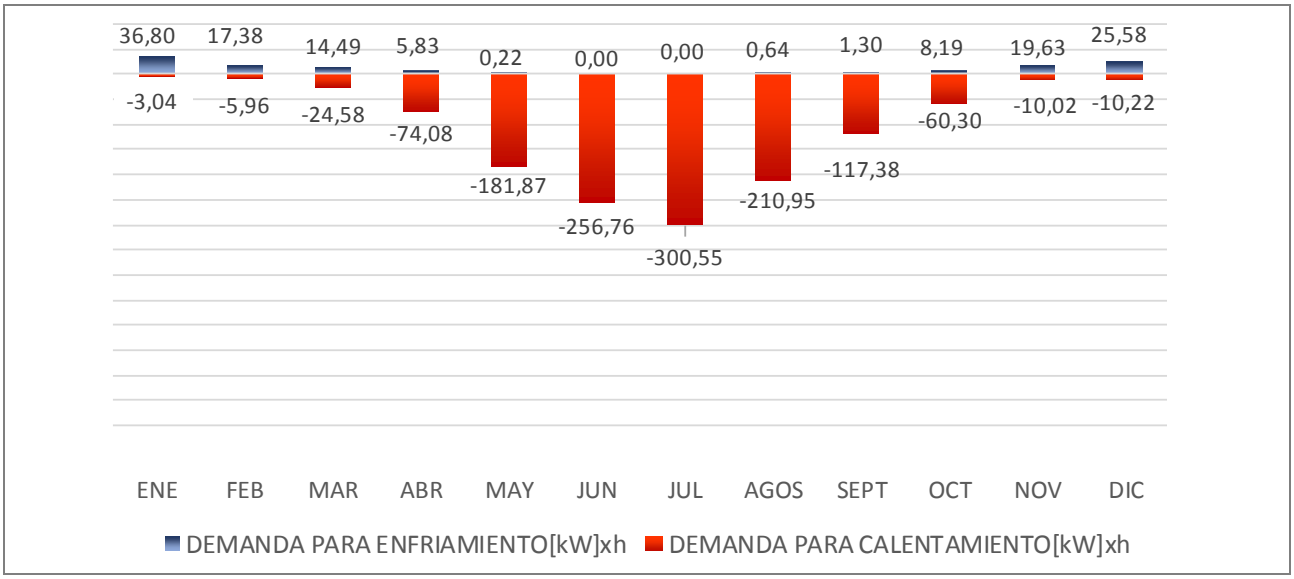
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **474** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.600** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.074** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

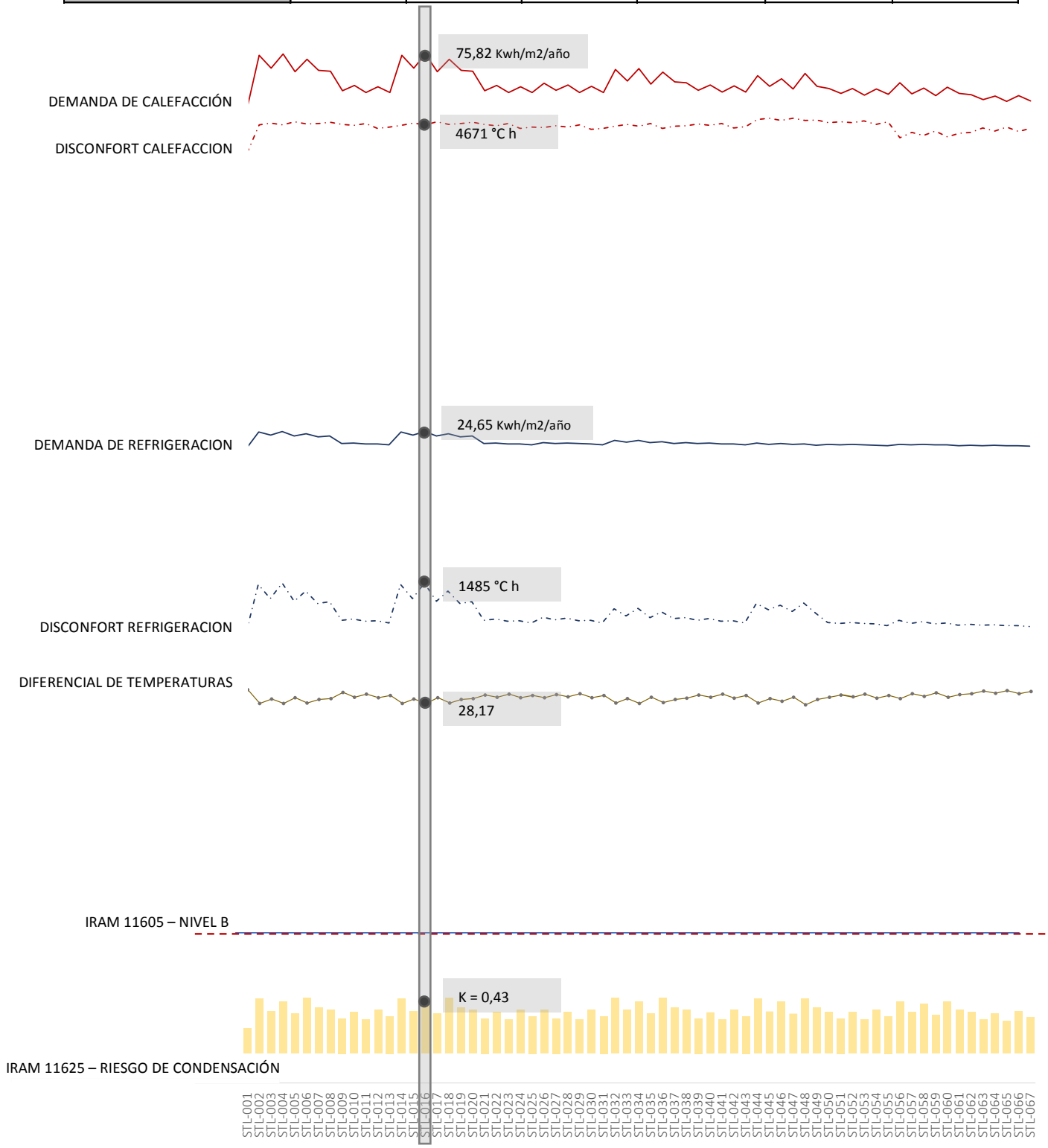



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **130,07** | kWh | 3,72 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.255,69** | kWh | 35,88 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.385,76** | kWh | **39,59** | kWh/m2/año |

| STL-016 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 084 | N° 189 | N° 091 | N° 188 | N° 195 | N° 189 |



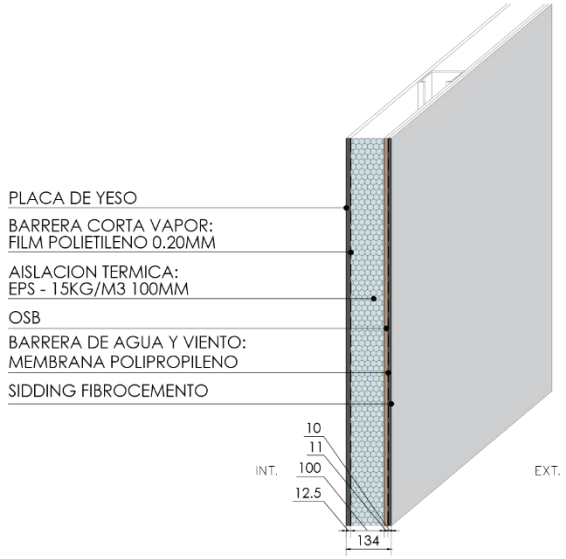

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,40 | 30,67 | 1,88 | 4592 | 251 |
| INDIVIDUAL | 0,43 | 0% | 30,88 | 35,88 | 3,72 | 4600 | 474 |
| INC. FAMILIA | 121,77% | 0% | 98,34% | 116,99% | 197,87% | 100,17% | 188,84% |
| INC. MUNDIAL | 36,15% | 0% | 100,21% | 87,24% | 61,98% | 103,10% | 92,73% |

| STL-017 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

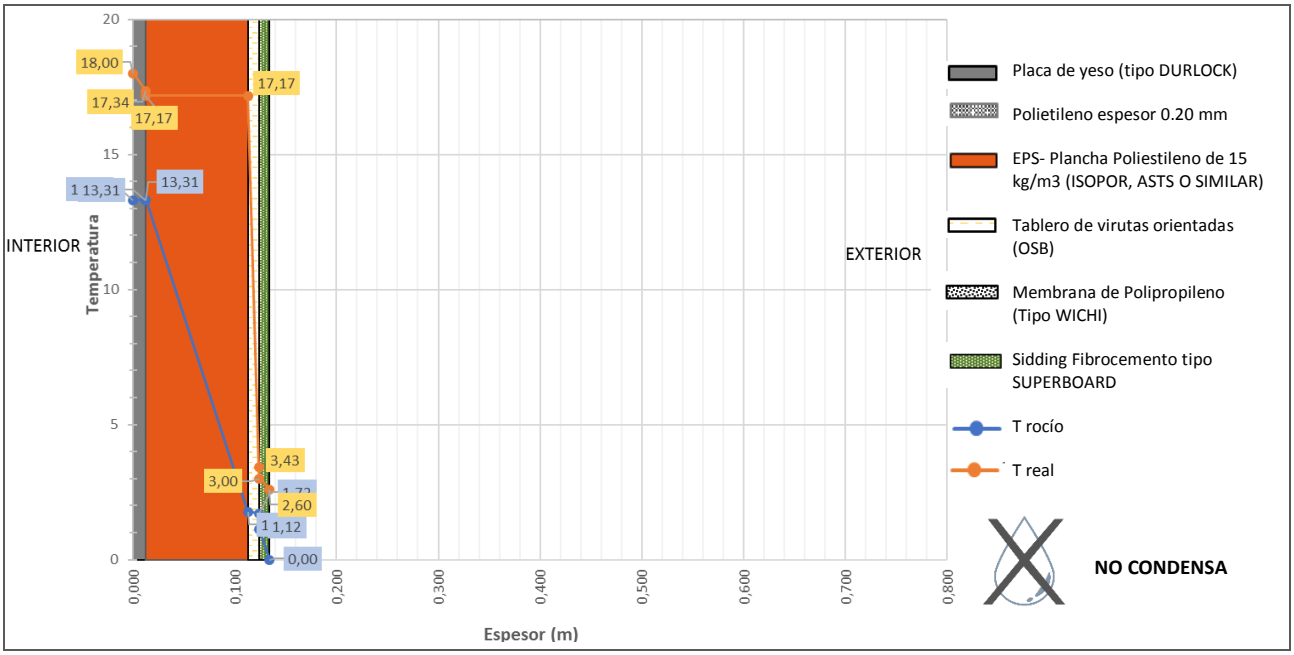
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,33 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



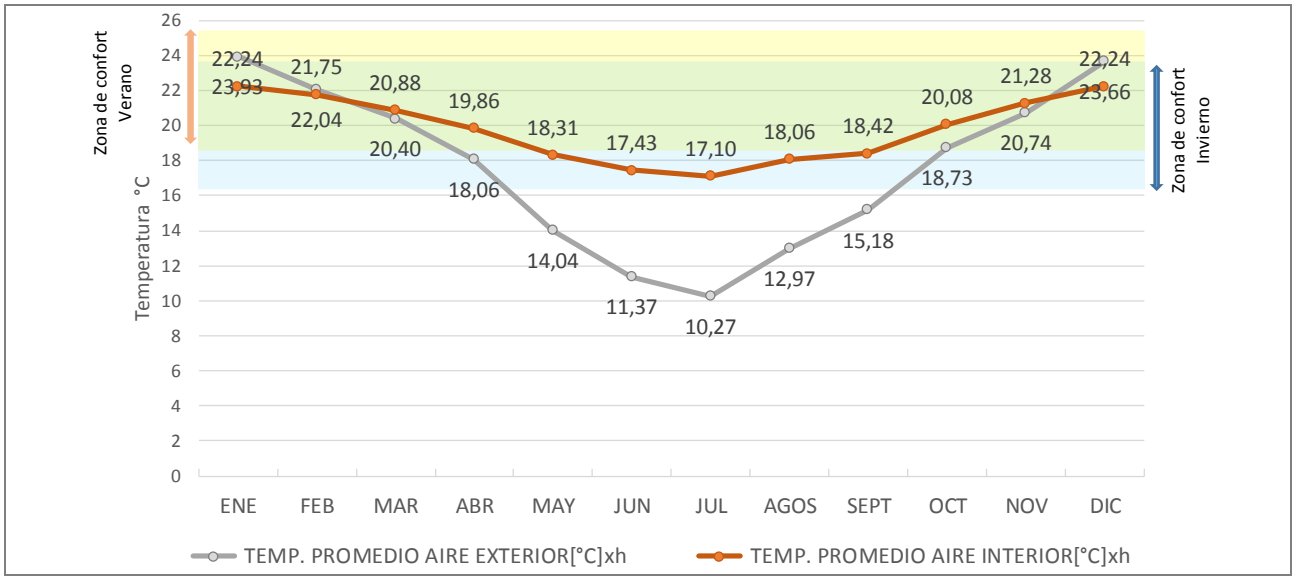

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,1 | 2,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,8** | **5,7** |
| | **Amortiguamiento:** | 0,119 | 0,123 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,6** | **4,0** |
| | **Amortiguamiento:** | 0,229 | 0,348 |

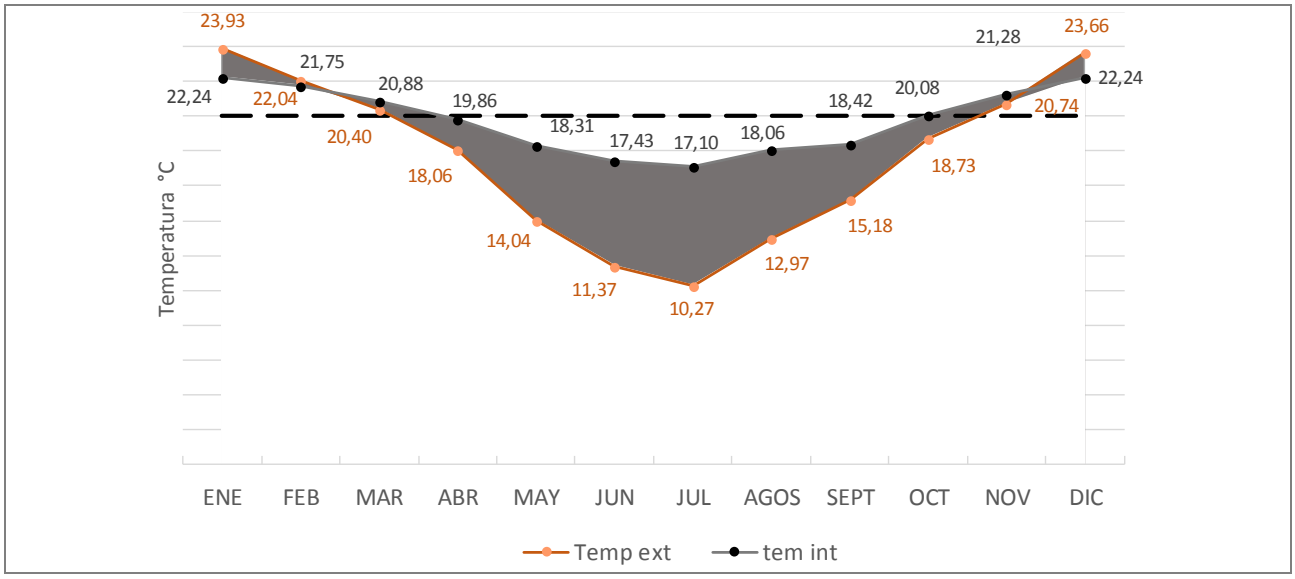
| STL-017 | MU | STEEL FRAME |
|---|---|---|

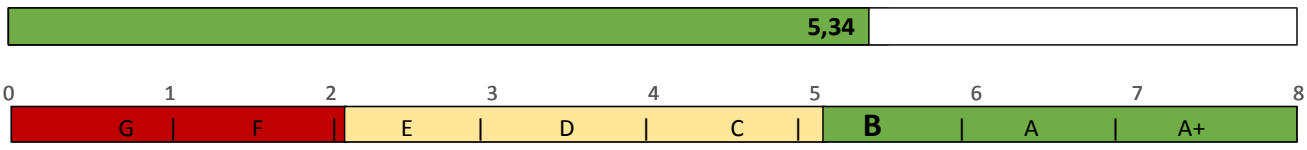
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,04** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,76** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



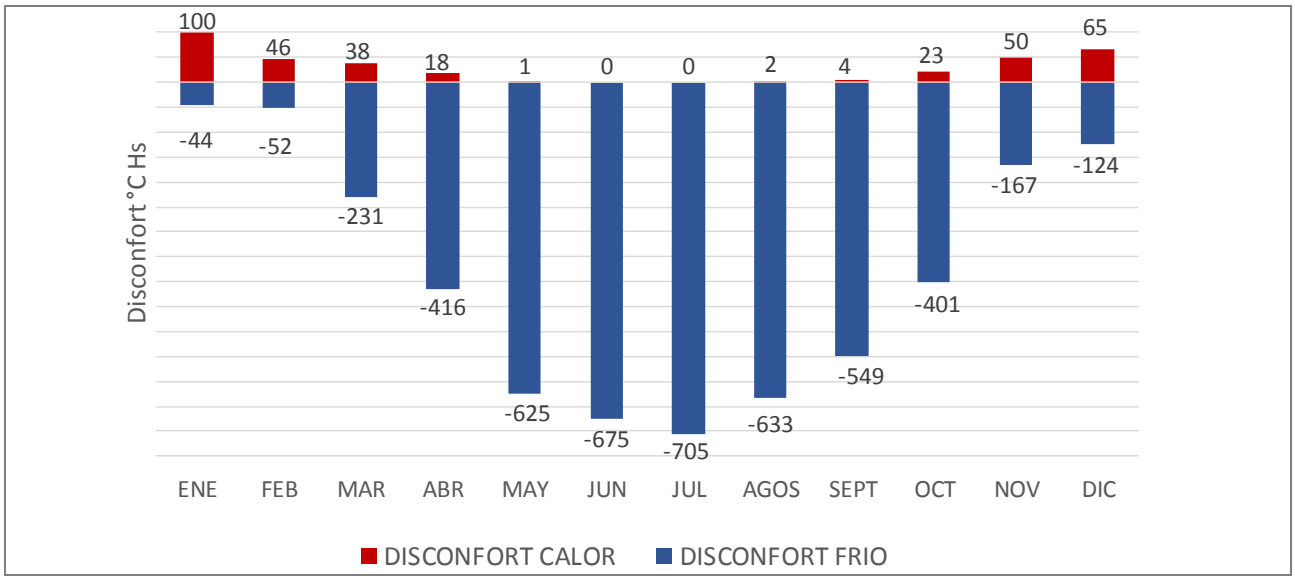




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-017 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

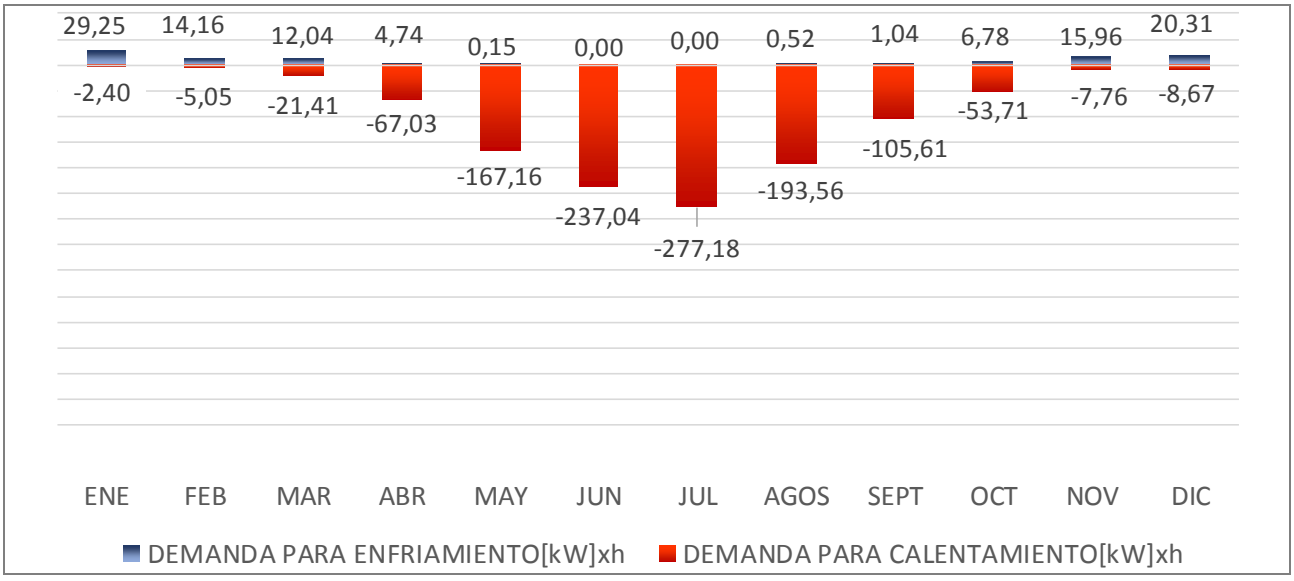
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **346** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.621** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.967** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

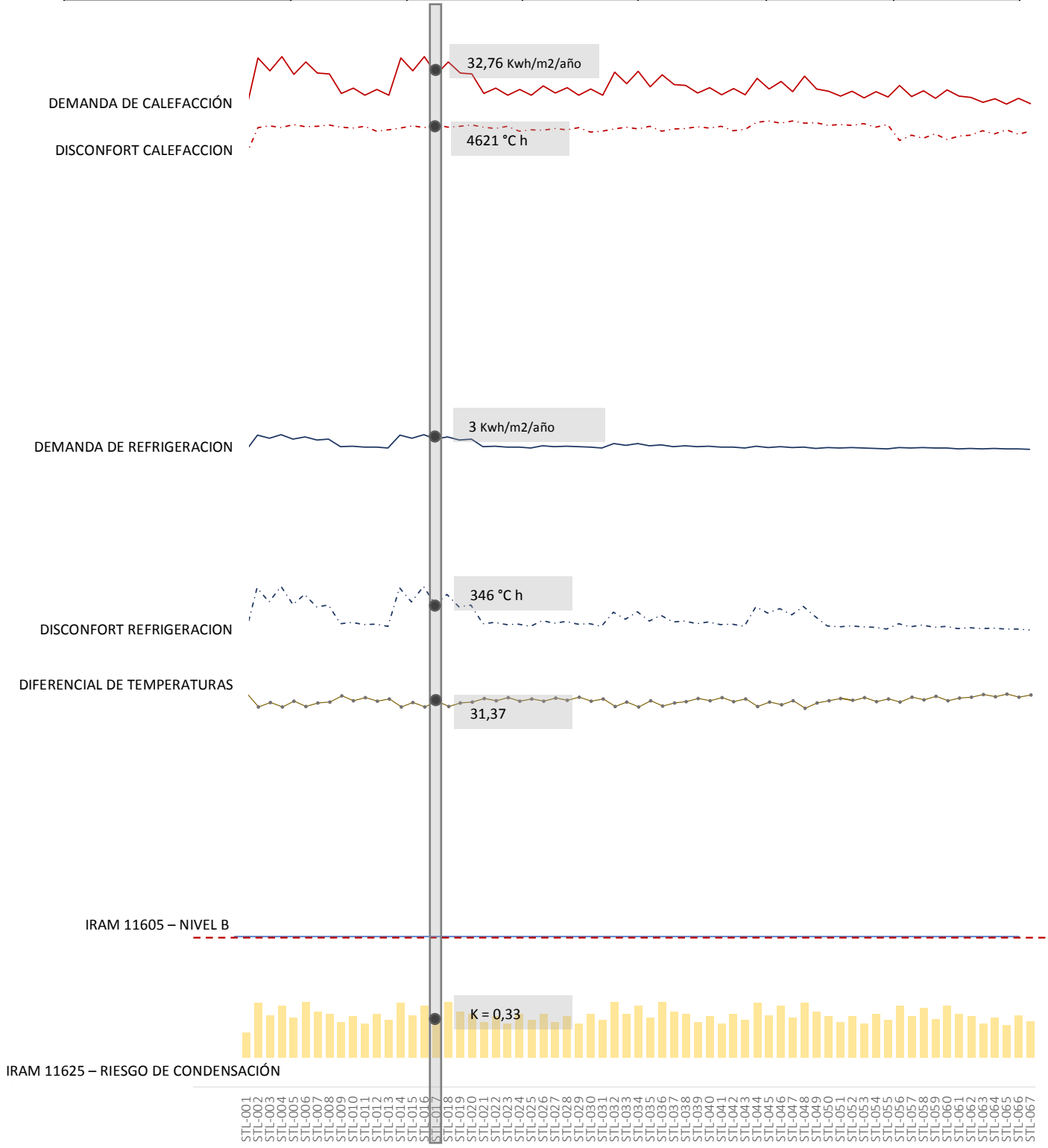



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **104,95** | kWh | 3,00 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.146,57** | kWh | 32,76 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.251,52** | kWh | **35,76** | kWh/m2/año |

| STL-017 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 030 | N° 057 | N° 125 | N° 165 | N° 181 | N° 157 |



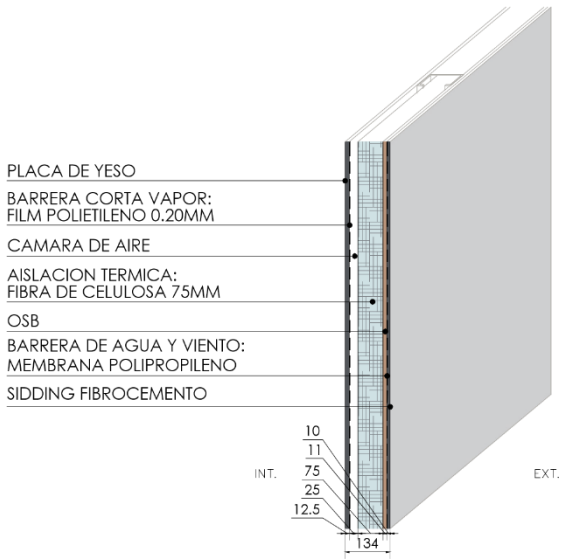

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,33 | 0% | 31,37 | 32,76 | 3 | 4621 | 346 |
| INC. FAMILIA | 93,45% | 0% | 100,16% | 102,82% | 119,81% | 100,58% | 122,92% |
| INC. MUNDIAL | 27,75% | 0% | 101,81% | 79,66% | 49,99% | 103,57% | 67,69% |

| STL-018 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

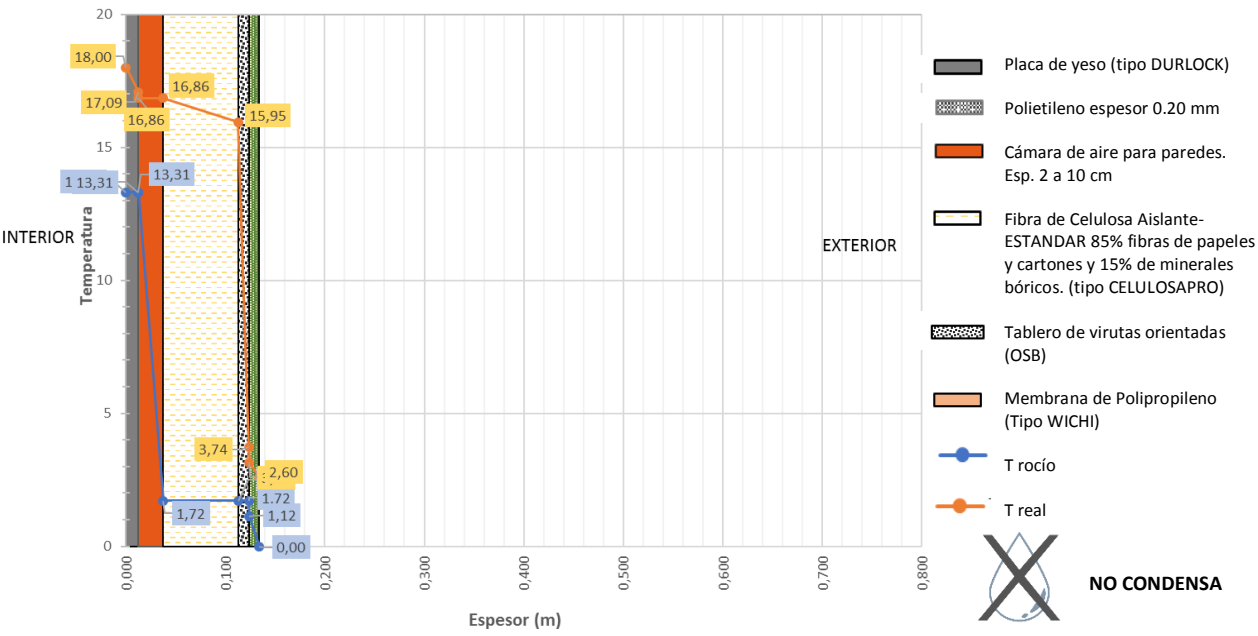
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,45 | 0,45 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



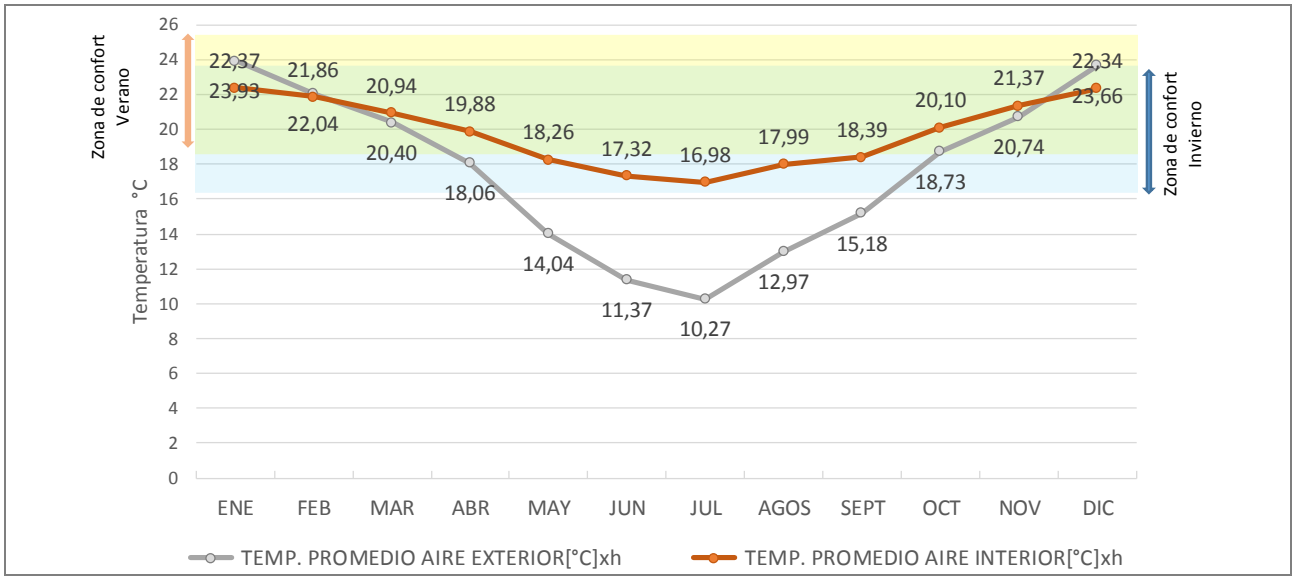

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,5 | 4,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,0** | **5,9** |
| | **Amortiguamiento:** | 0,109 | 0,112 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,4** | **4,2** |
| | **Amortiguamiento:** | 0,242 | 0,335 |

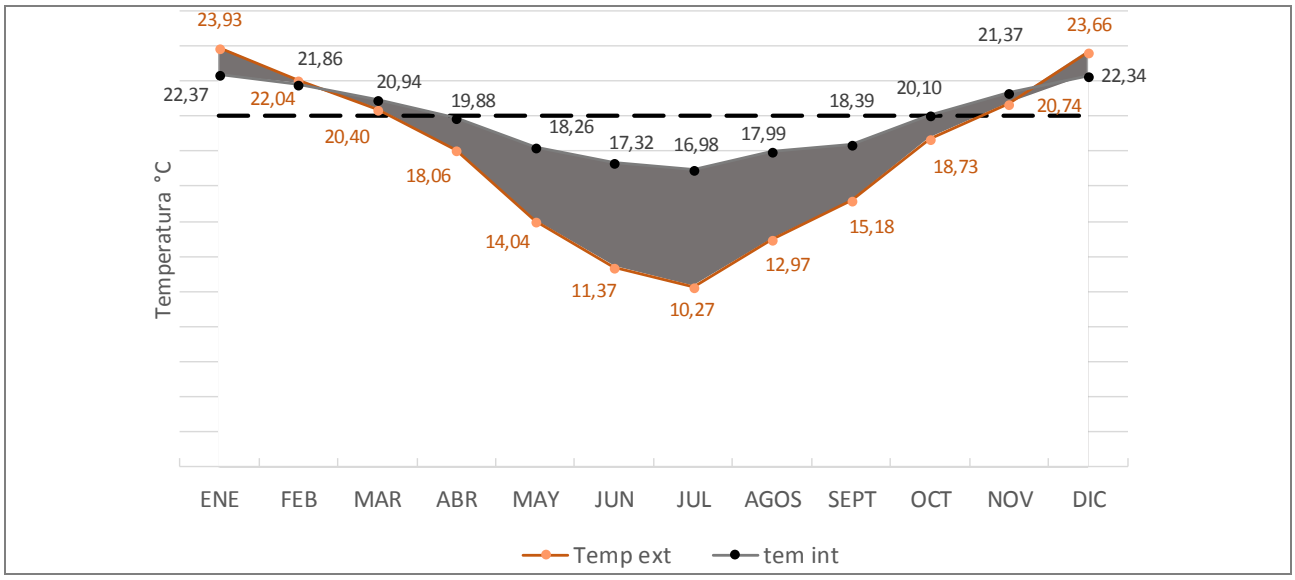
| STL-018 | MU | STEEL FRAME |
|---|---|---|

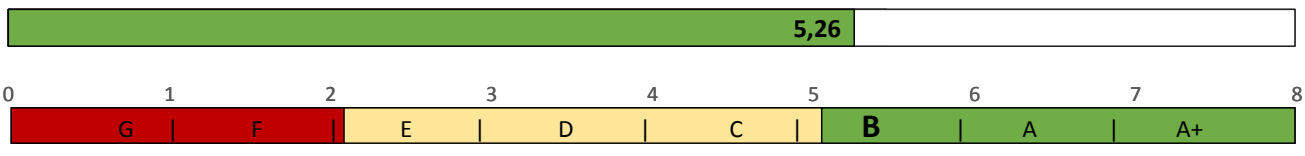
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,35** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,40** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



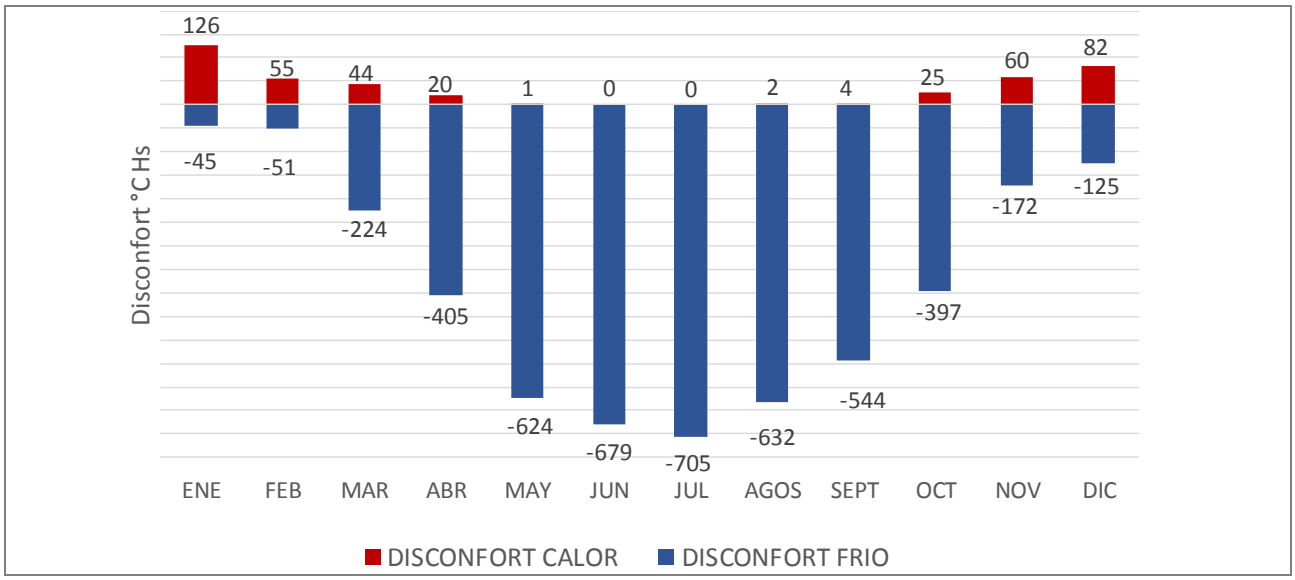




5,26 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-018 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

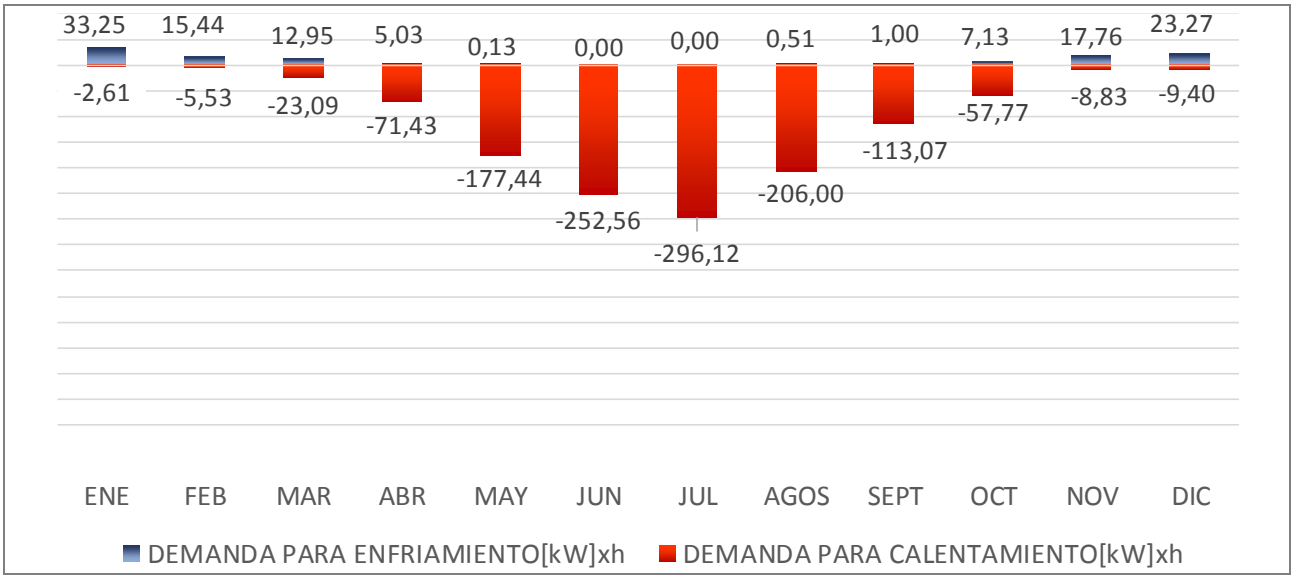
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **418** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.604** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.022** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

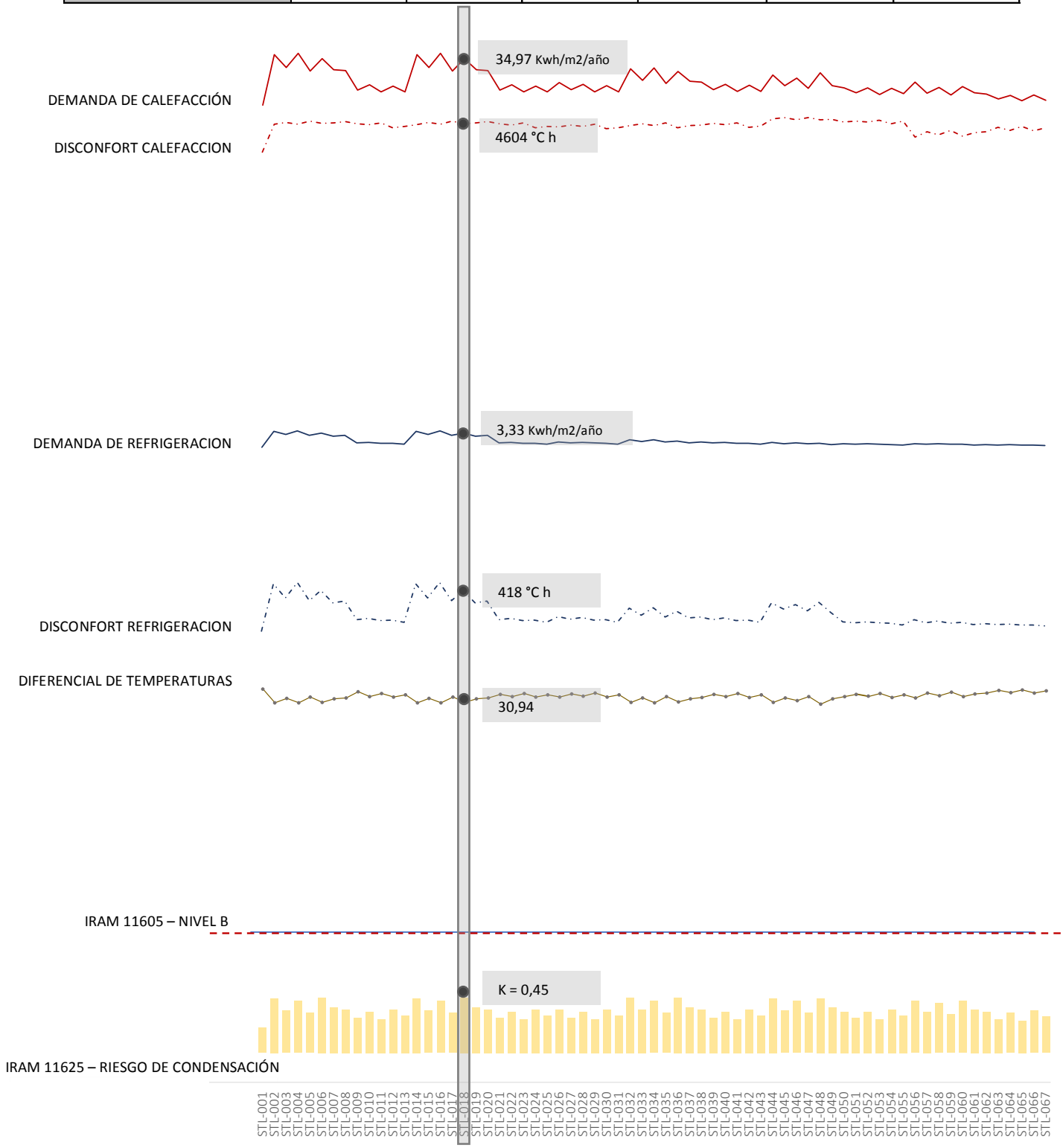



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **116,48** | kWh | 3,33 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.223,86** | kWh | 34,97 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.340,33** | kWh | **38,30** | kWh/m2/año |

| STL-018 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 102 | N° 117 | N° 148 | N° 172 | N° 161 | N° 165 |



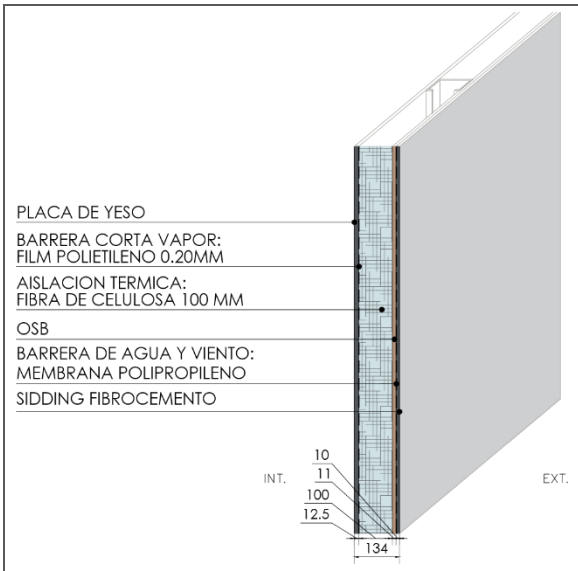

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,45 | 0% | 30,94 | 34,97 | 3,33 | 4604 | 418 |
| INC. FAMILIA | 127,43% | 0% | 98,79% | 109,75% | 132,99% | 100,21% | 148,50% |
| INC. MUNDIAL | 37,83% | 0% | 100,41% | 85,03% | 55,48% | 103,19% | 81,78% |

| STL-019 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

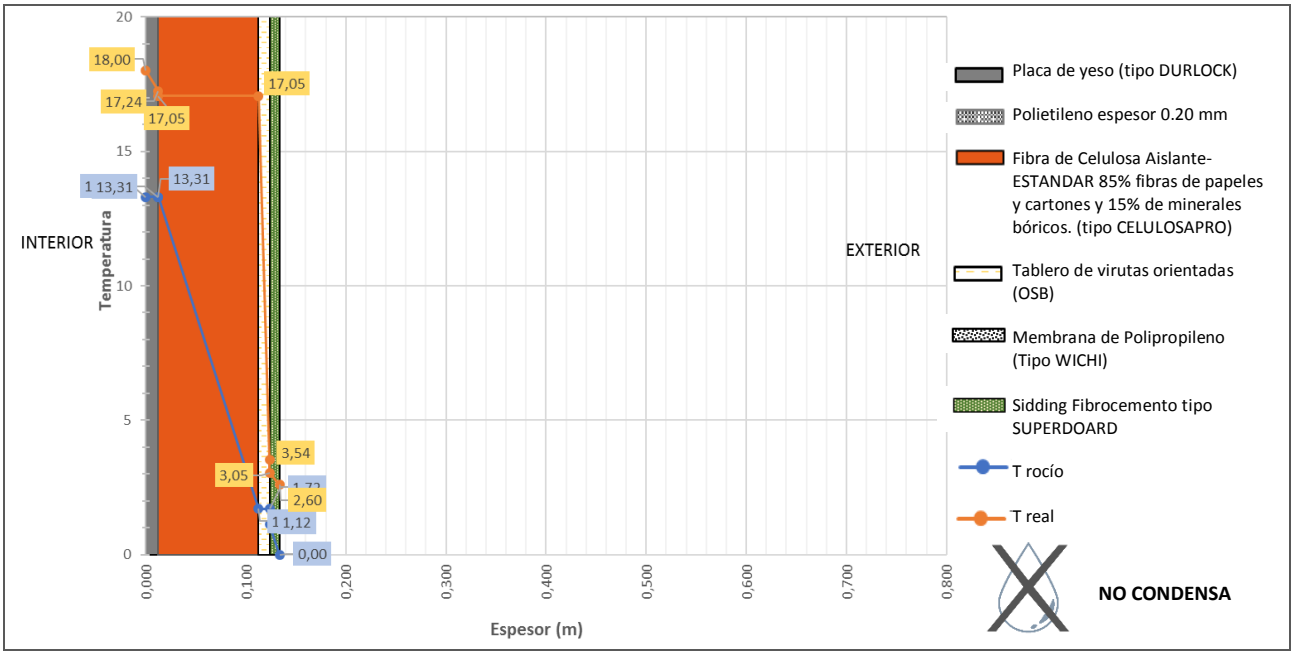
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,38 | 0,38 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



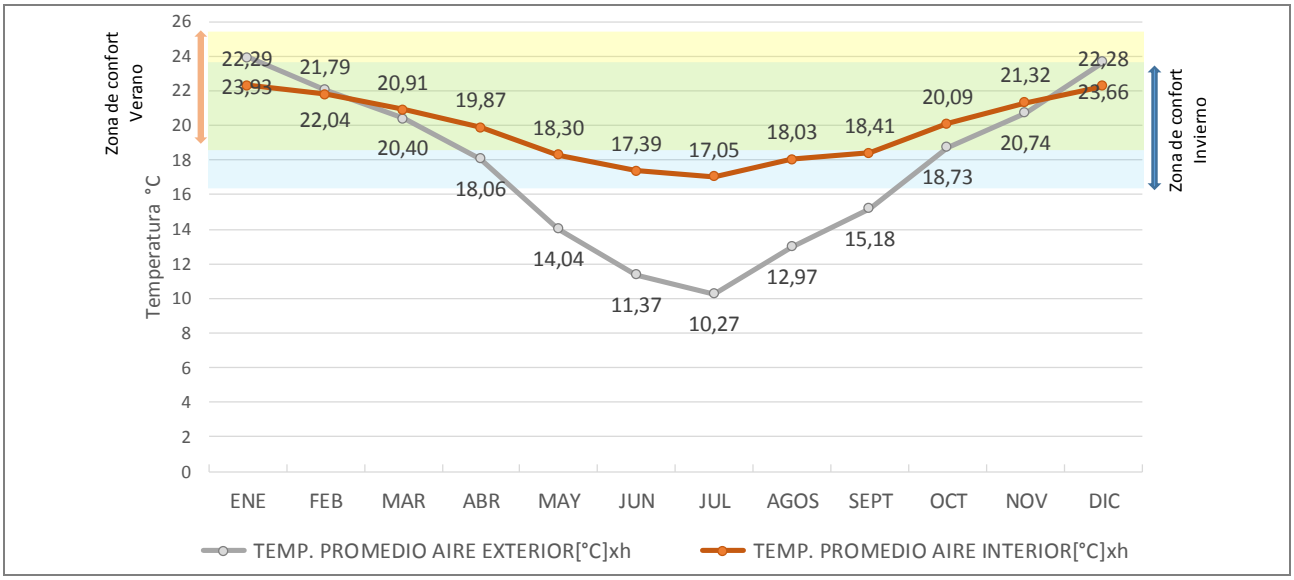

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,1 | 4,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,0** | **6,9** |
| | **Amortiguamiento:** | 0,076 | 0,077 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,1** | **4,9** |
| | **Amortiguamiento:** | 0,202 | 0,278 |

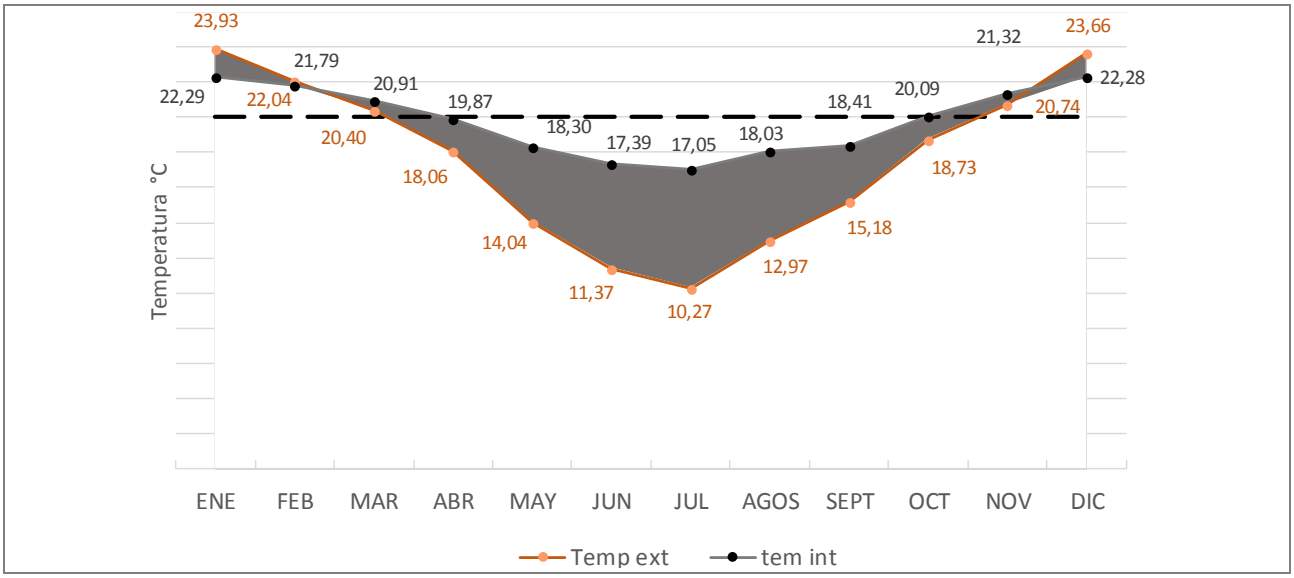
| STL-019 | MU | STEEL FRAME |
|---|---|---|

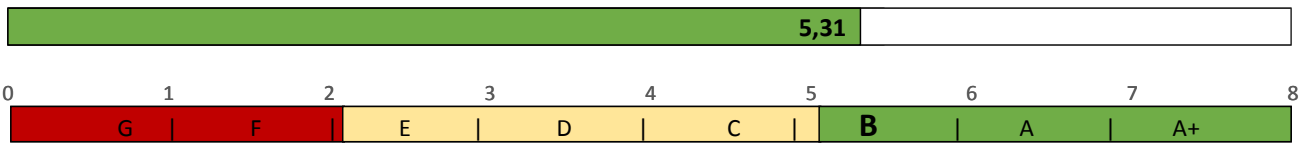
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,97** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,74** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



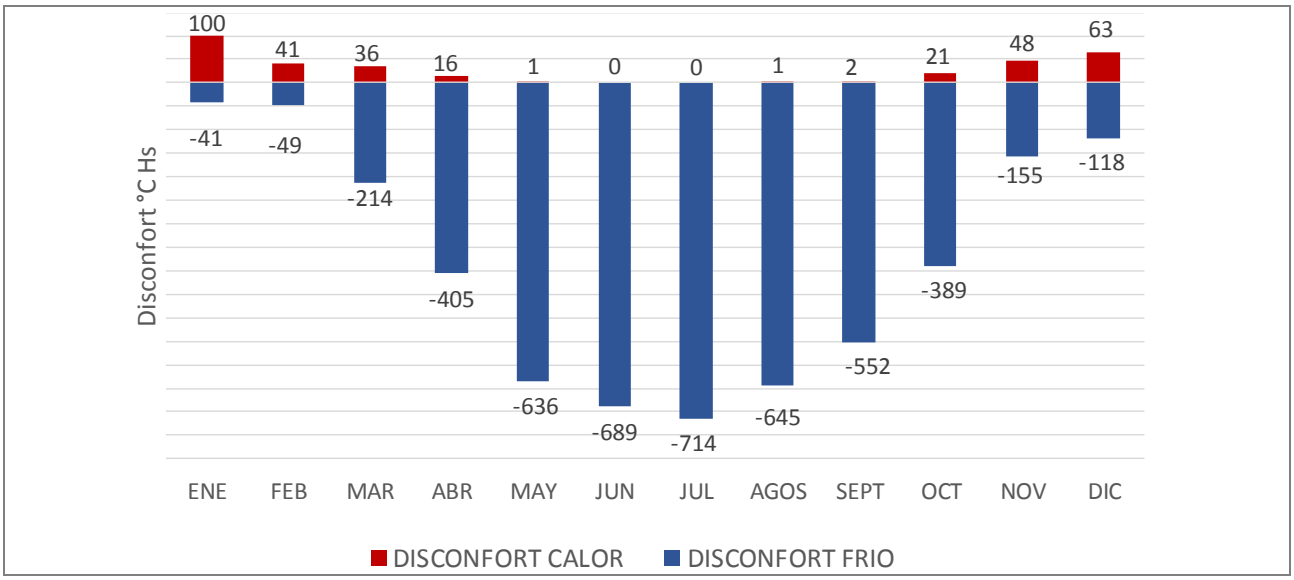




5,31 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-019 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

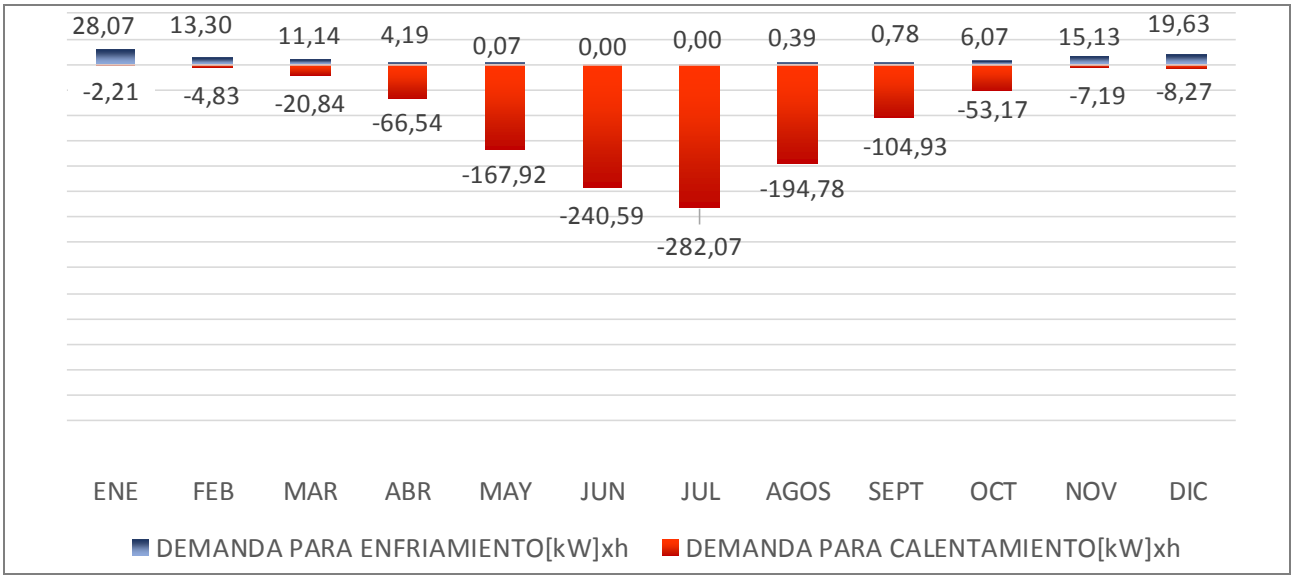
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **329** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.608** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.937** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

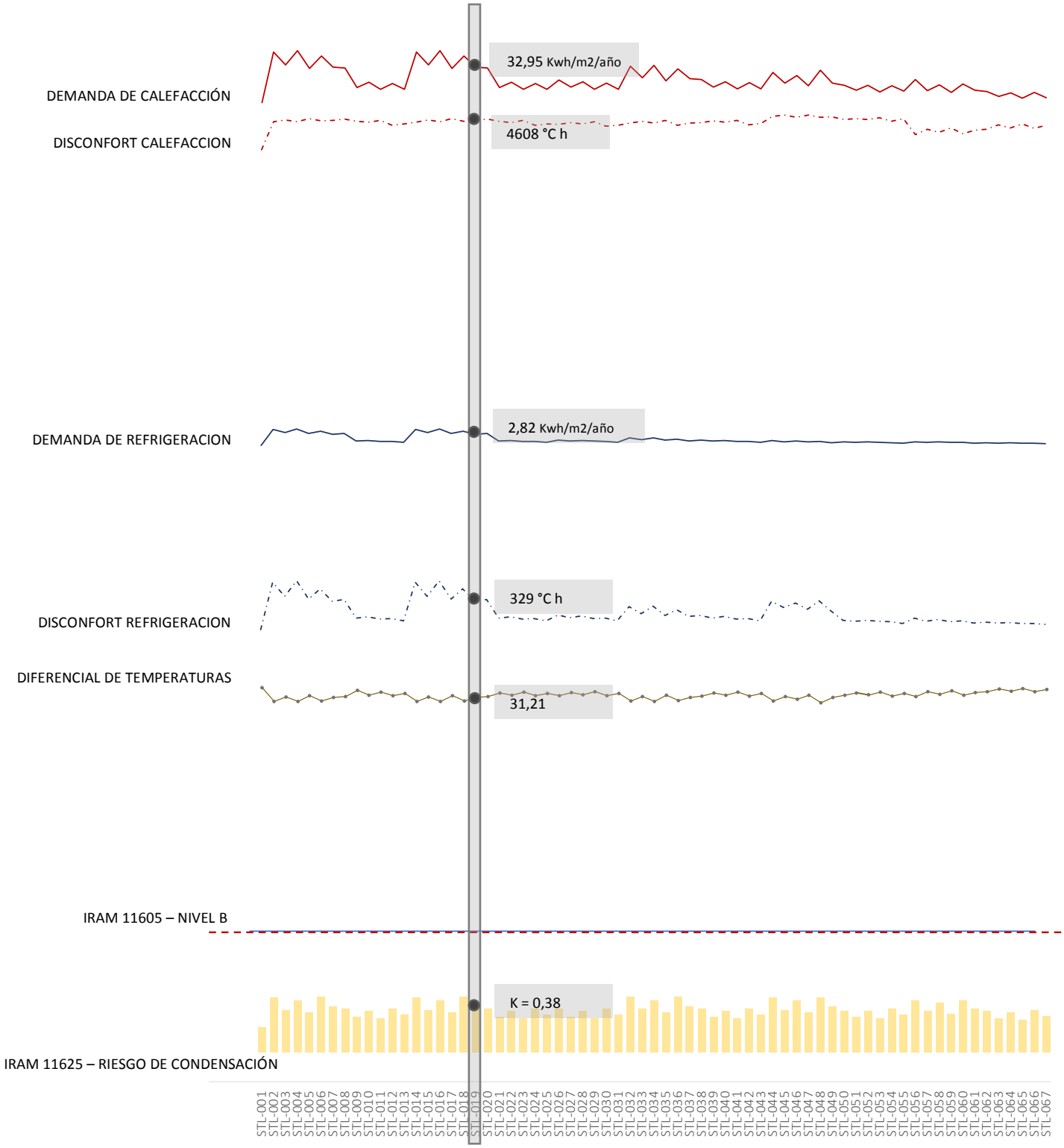



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **98,77** | kWh | 2,82 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.153,33** | kWh | 32,95 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.252,10** | kWh | **35,77** | kWh/m2/año |

| STL-019 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 067 | N° 089 | N° 131 | N° 161 | N° 165 | N° 150 |



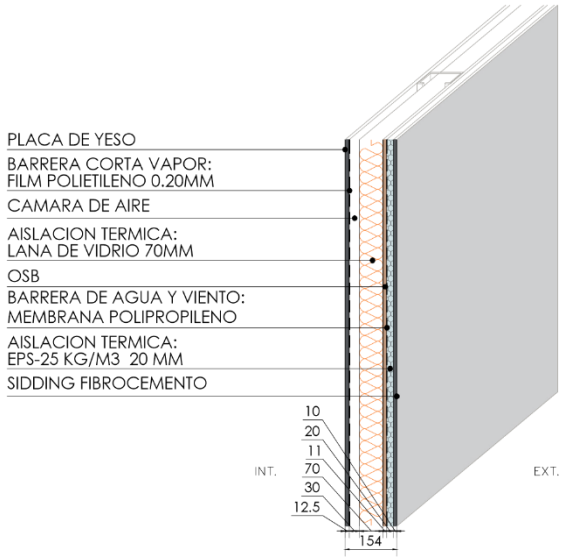

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,38 | 0% | 31,21 | 32,95 | 2,82 | 4608 | 329 |
| INC. FAMILIA | 107,61% | 0% | 99,65% | 103,41% | 112,63% | 100,30% | 116,88% |
| INC. MUNDIAL | 31,95% | 0% | 101,29% | 80,12% | 46,99% | 103,28% | 64,36% |

| STL-020 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 70MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR

## INDICE DE TRANSMITANCIA TERMICA "K"

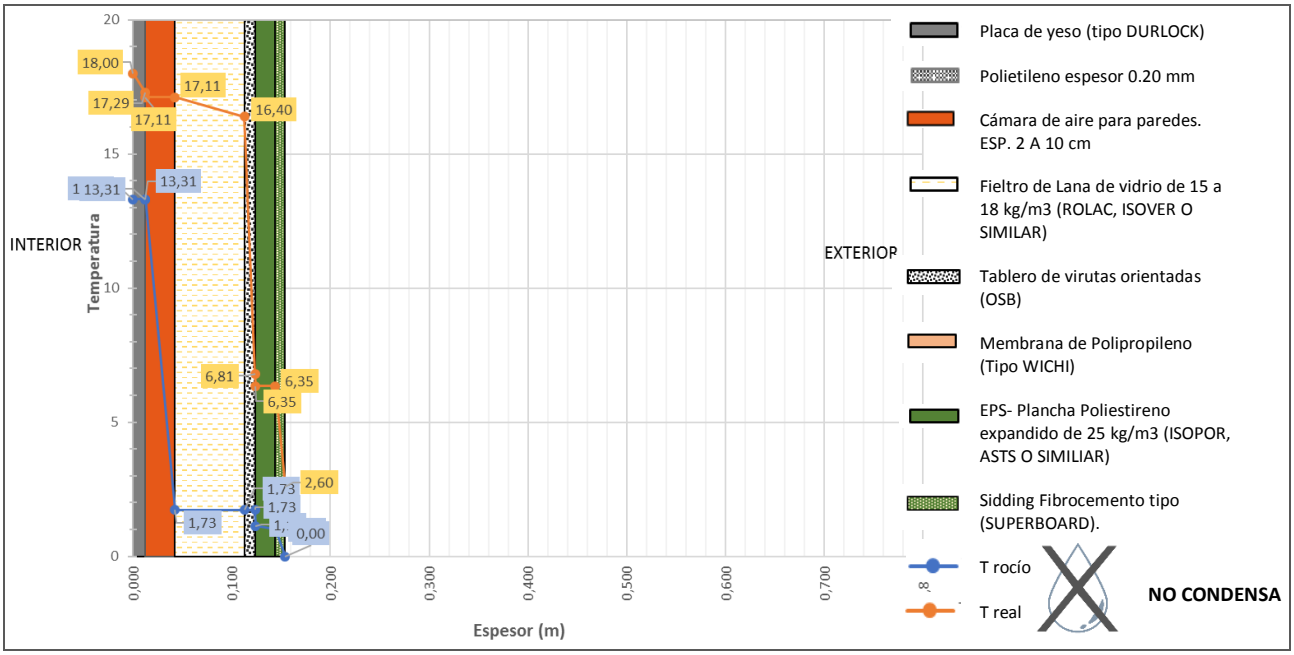
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



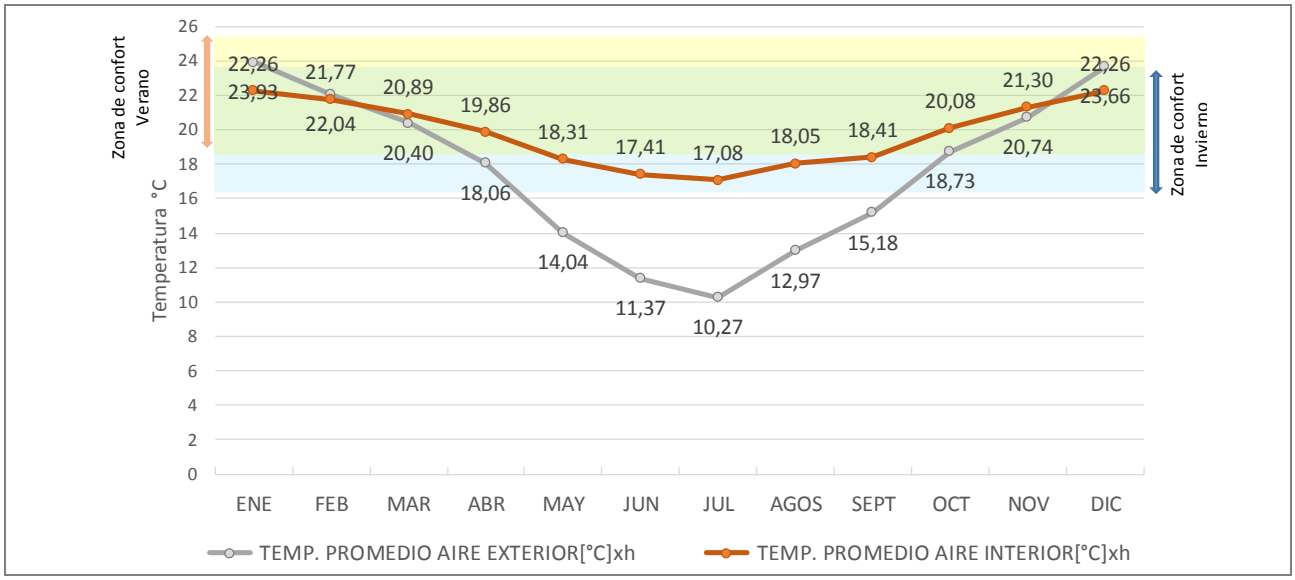

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,3 | 2,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,5** | **5,4** |
| | **Amortiguamiento:** | 0,129 | 0,133 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,1** | **4,2** |
| | **Amortiguamiento:** | 0,260 | 0,329 |

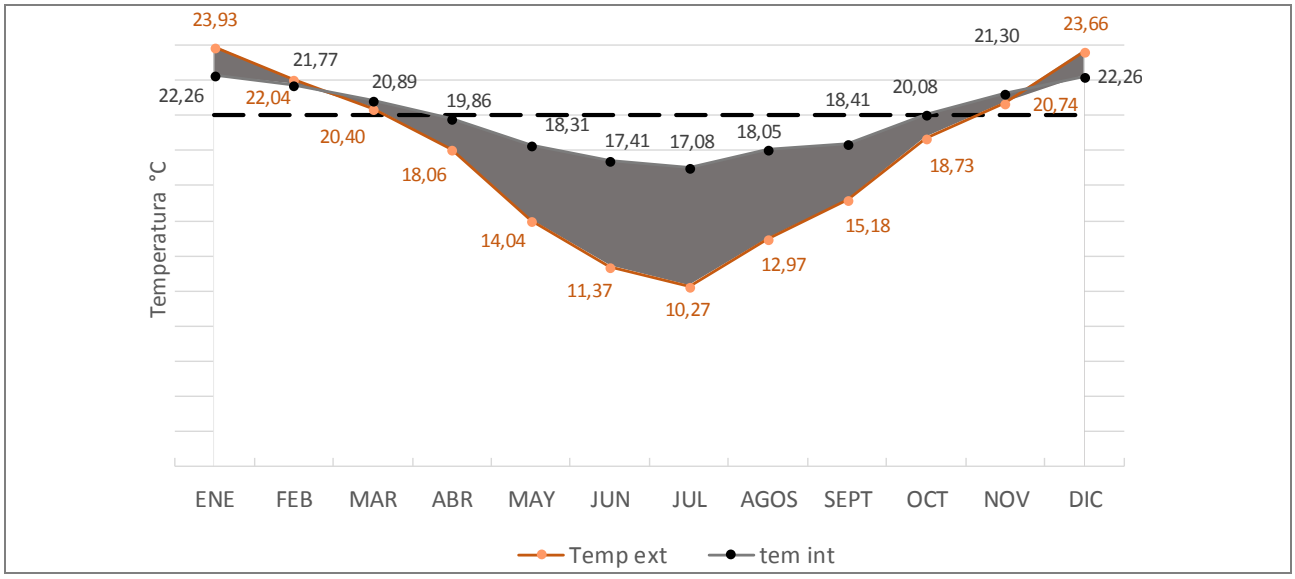
| STL-020 | MU | STEEL FRAME |
|---|---|---|

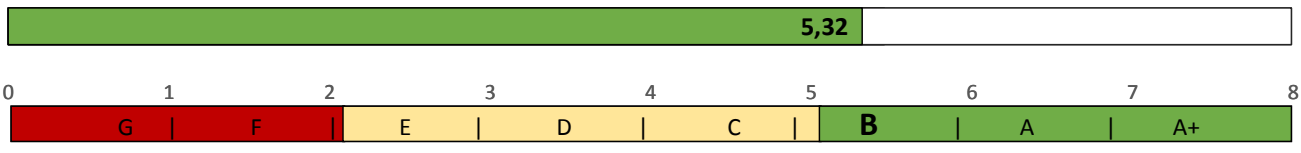
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,04** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,73** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



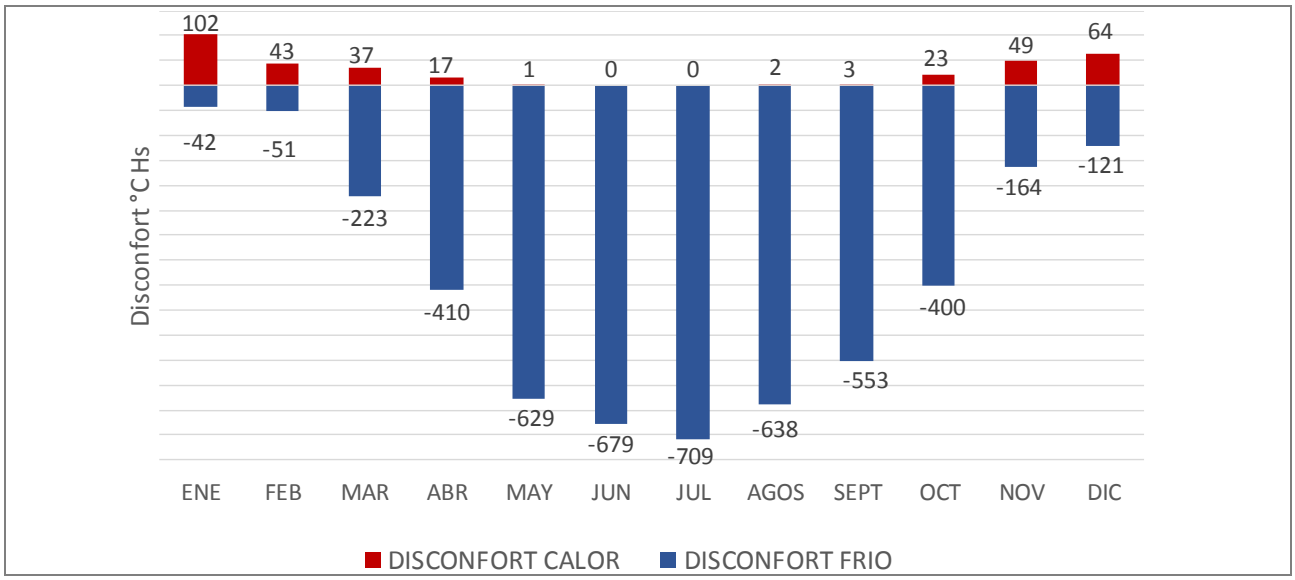




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-020 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

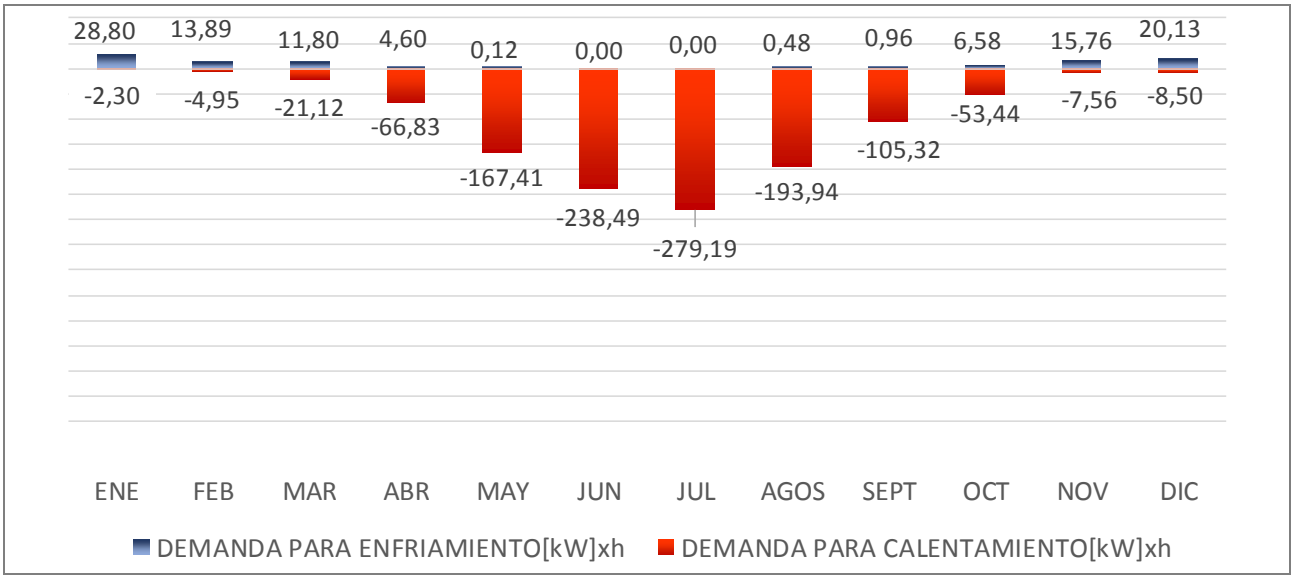
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **342** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.618** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.960** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

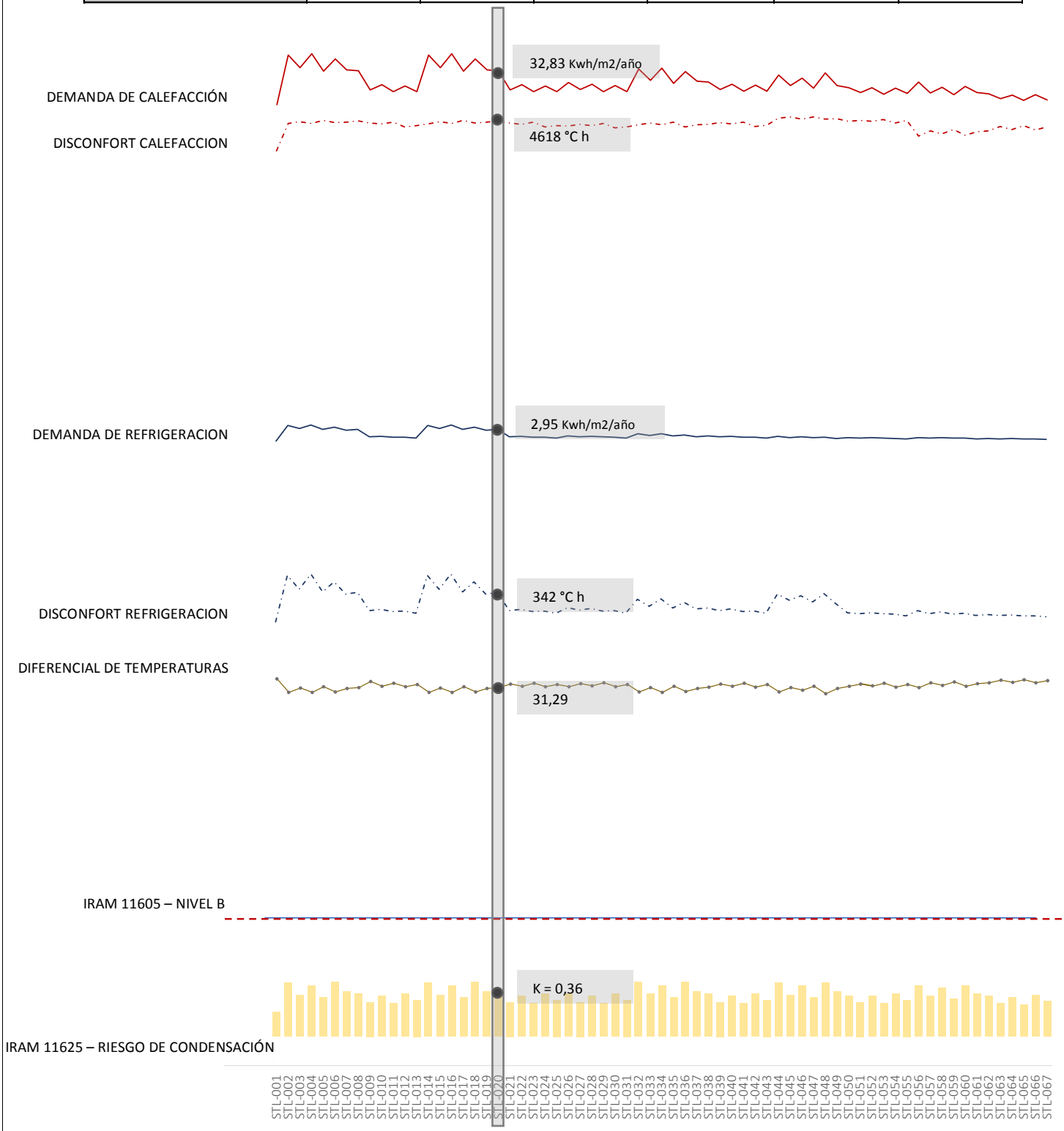



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **103,13** | kWh | 2,95 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.149,05** | kWh | 32,83 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.252,18** | kWh | **35,78** | kWh/m2/año |

| STL-020 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 052 | N° 076 | N° 128 | N° 163 | N° 179 | N° 155 |



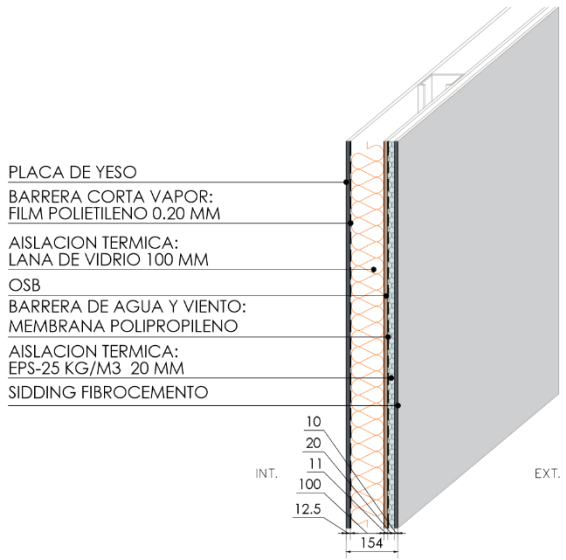

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,36 | 0% | 31,29 | 32,83 | 2,95 | 4618 | 342 |
| INC. FAMILIA | 101,94% | 0% | 99,91% | 103,04% | 117,82% | 100,52% | 121,50% |
| INC. MUNDIAL | 30,27% | 0% | 101,55% | 79,83% | 49,15% | 103,51% | 66,91% |

| STL-021 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

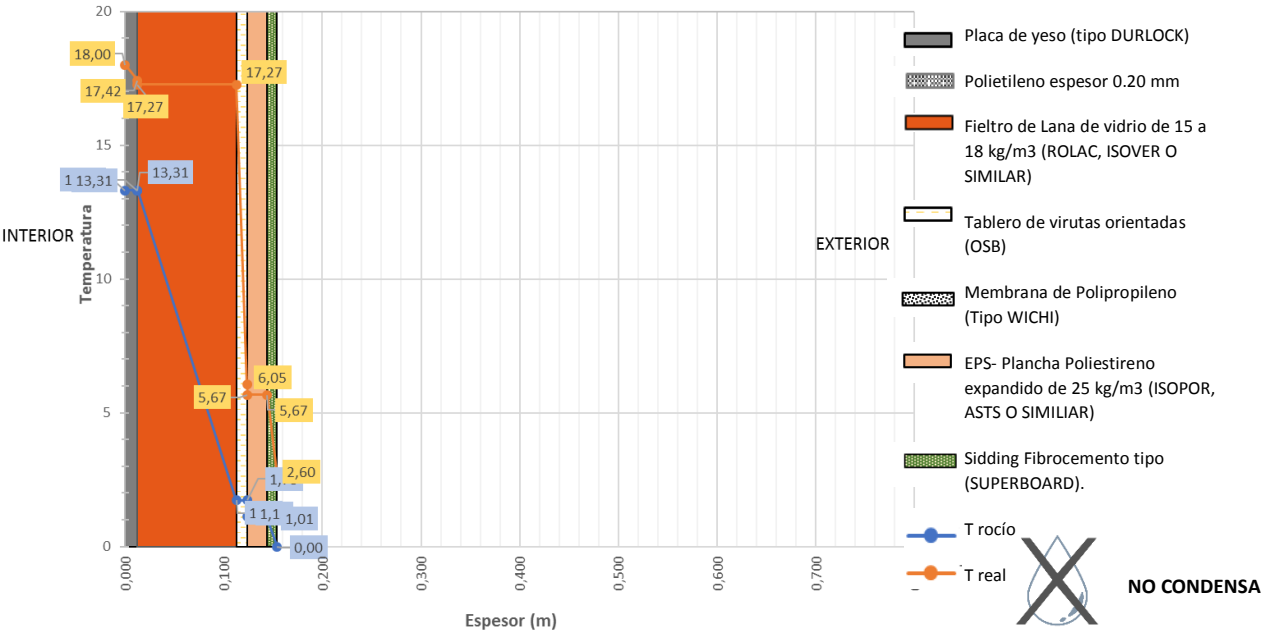
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,29 | 0,29 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



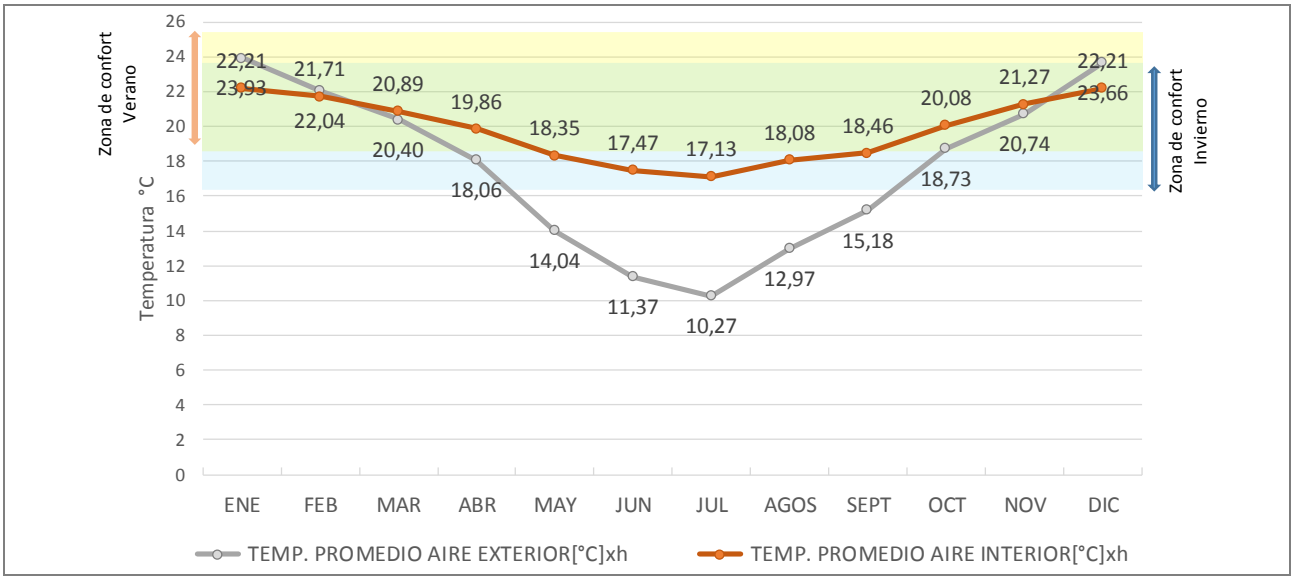

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,9 | 1,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,1** | **6,1** |
| | **Amortiguamiento:** | 0,103 | 0,106 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,7** | **4,6** |
| | **Amortiguamiento:** | 0,222 | 0,299 |

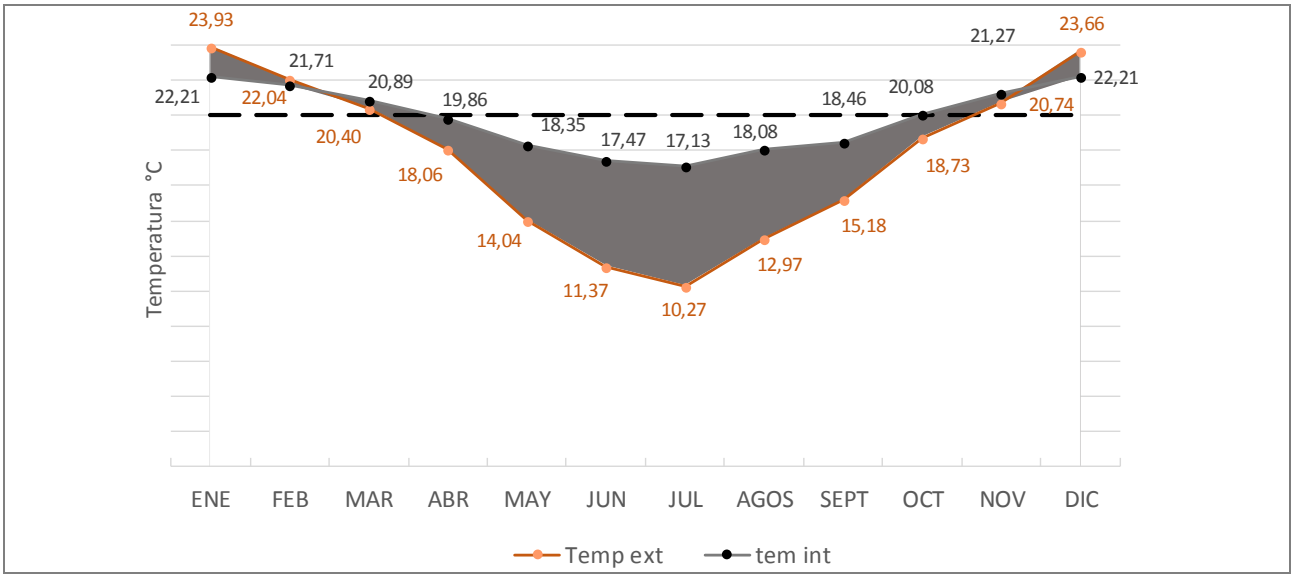
| STL-021 | MU | STEEL FRAME |
|---|---|---|

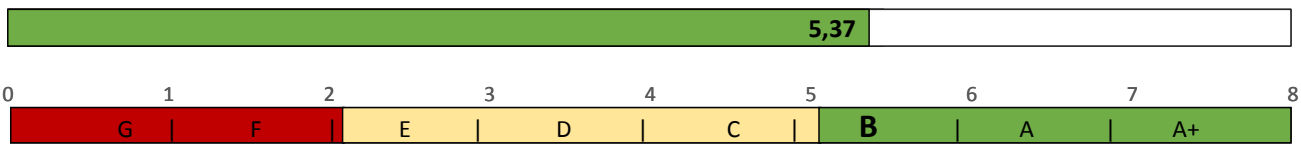
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,04** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,46** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



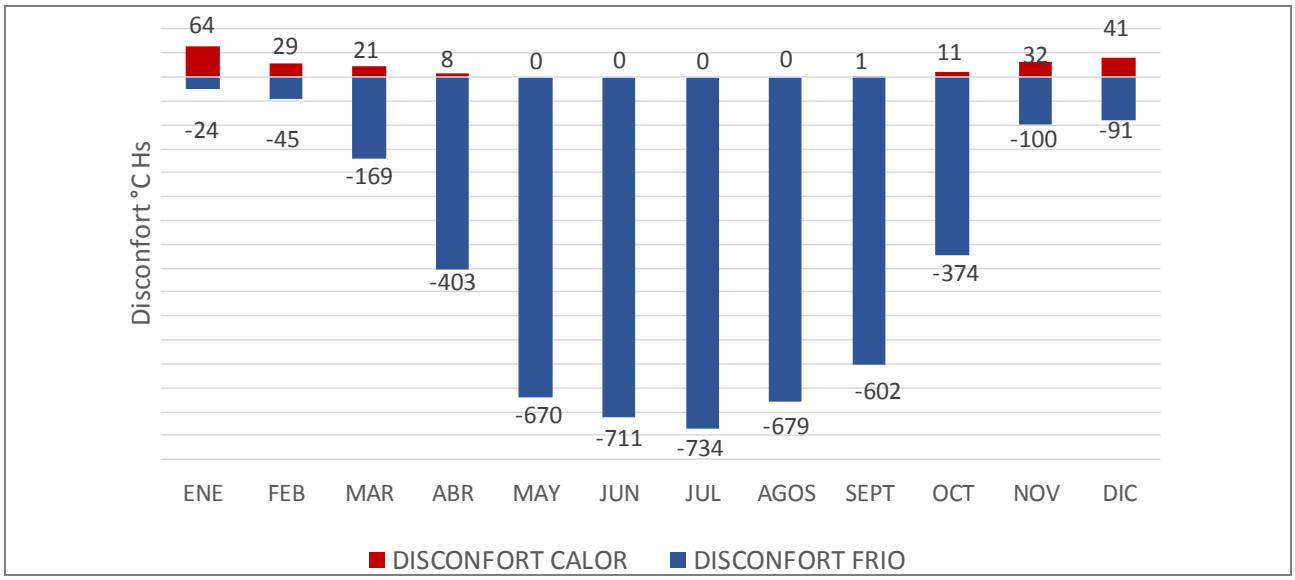




5,37 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-021 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

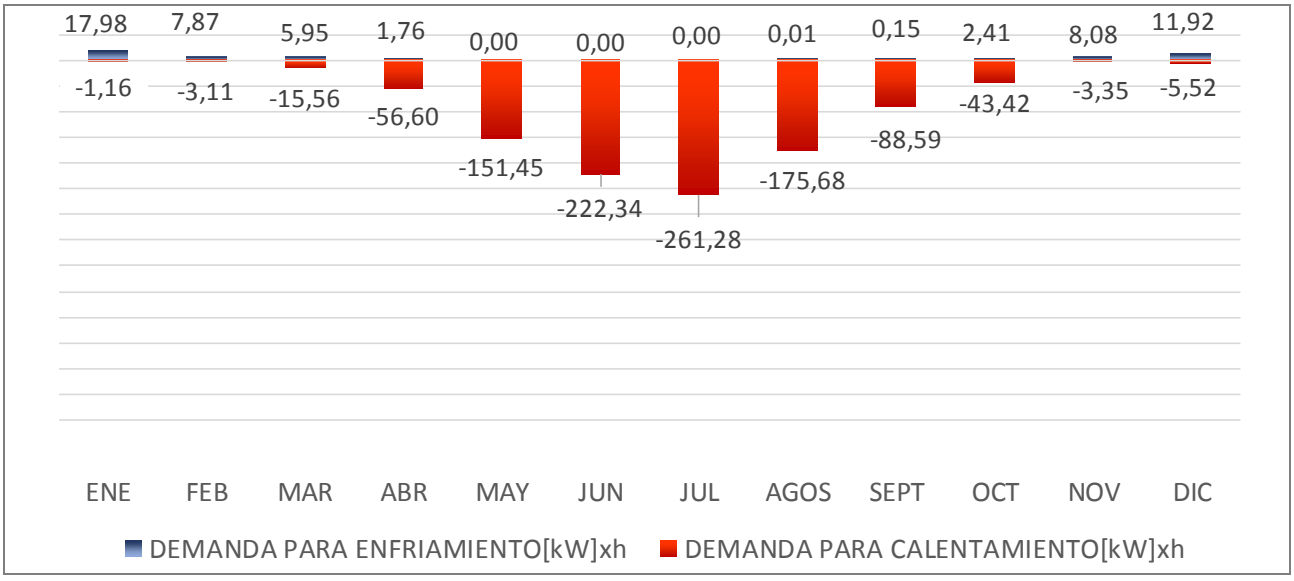
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **208** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.603** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.811** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

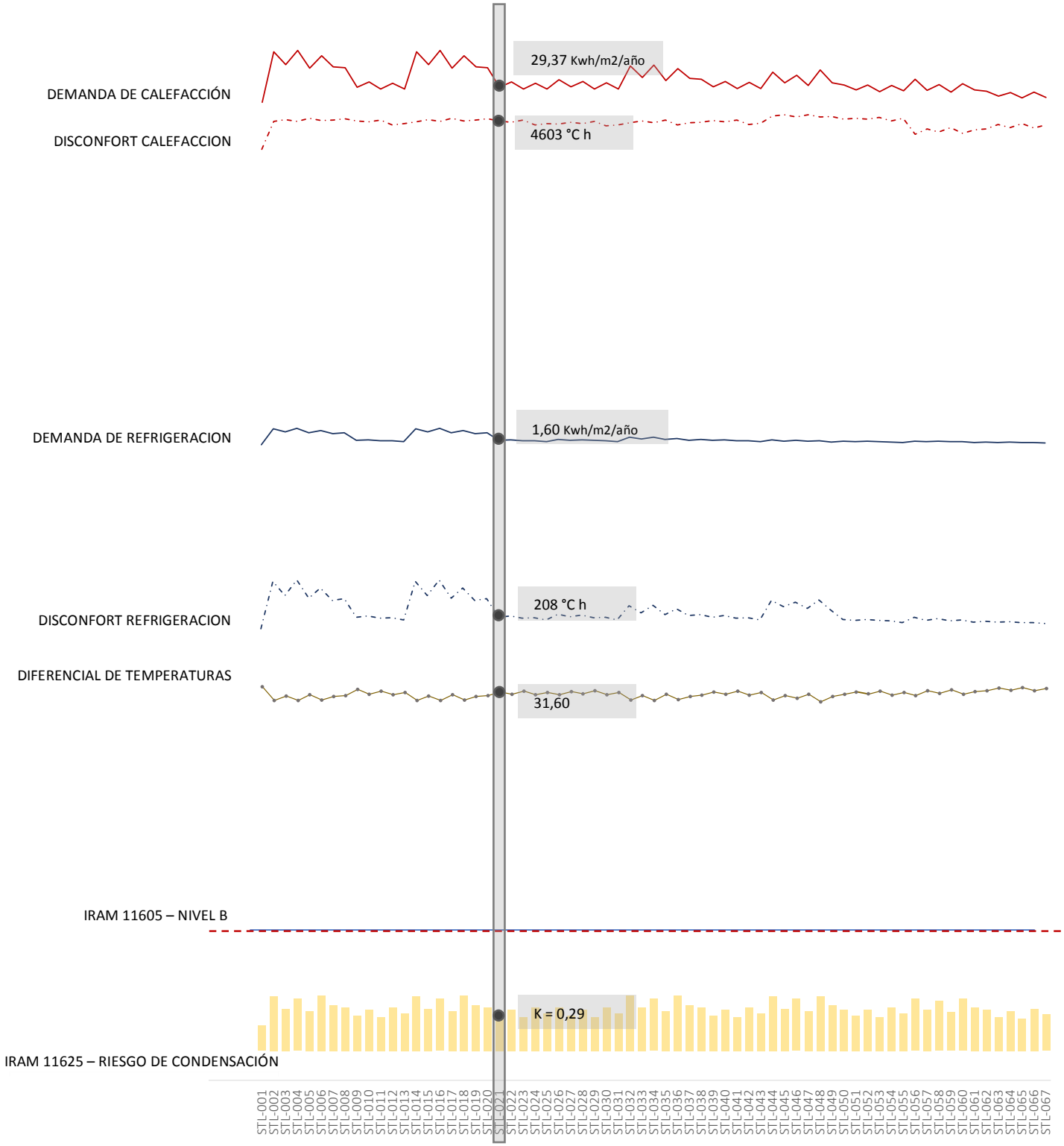



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **56,11** | kWh | 1,60 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.028,05** | kWh | 29,37 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.084,17** | kWh | **30,98** | kWh/m2/año |

| STL-021 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 014 | N° 032 | N° 041 | N° 123 | N° 158 | N° 107 |



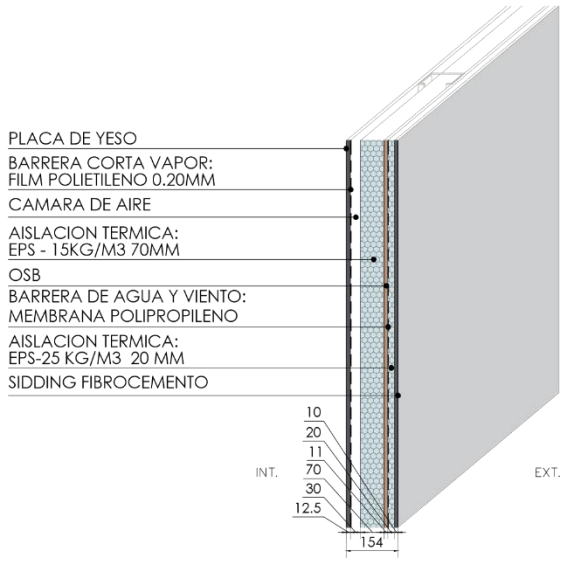

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,29 | | 31,6 | 29,37 | 1,6 | 4603 | 208 |
| INC. FAMILIA | 82,12% | 0% | 100,90% | 92,18% | 63,90% | 100,19% | 73,90% |
| INC. MUNDIAL | 24,38% | 0% | 102,55% | 71,42% | 26,66% | 103,17% | 40,69% |

| STL-022 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

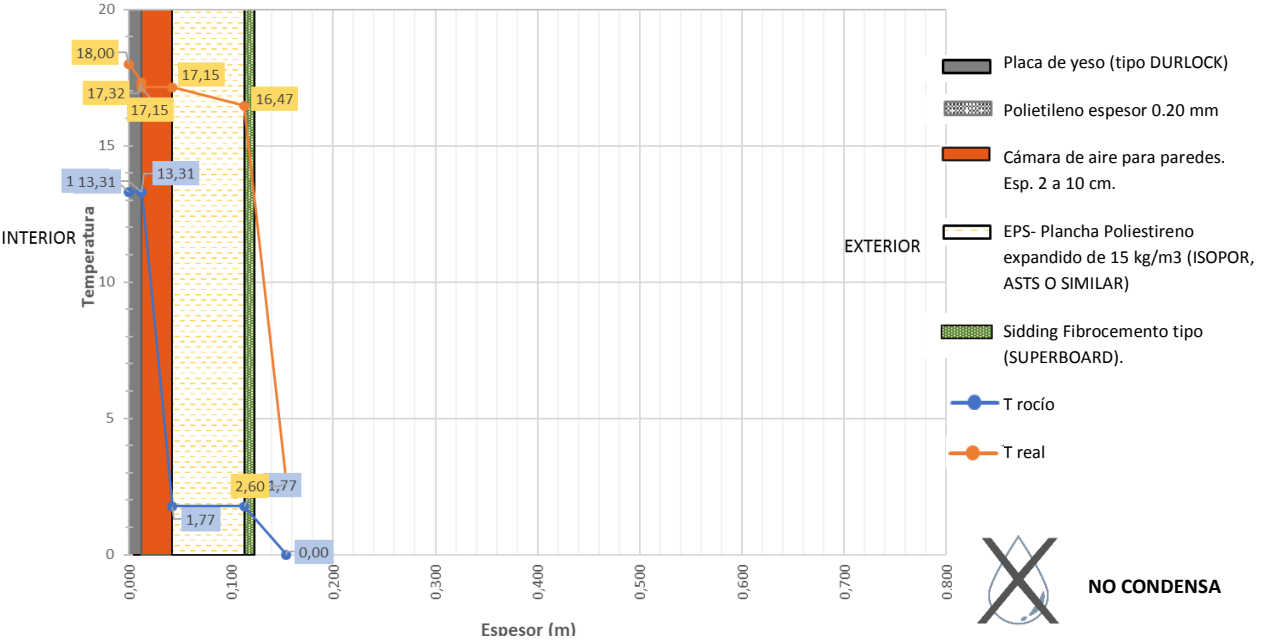
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,34 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



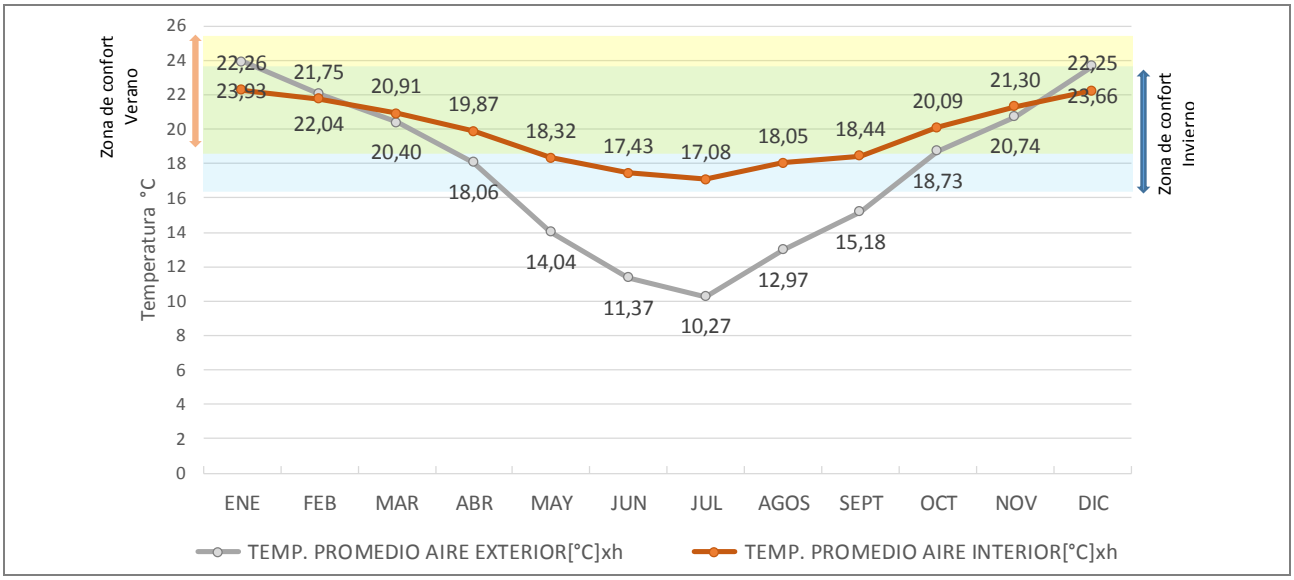

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,2 | 2,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,7** | **5,6** |
| | **Amortiguamiento:** | 0,122 | 0,126 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,3** | **4,3** |
| | **Amortiguamiento:** | 0,250 | 0,321 |

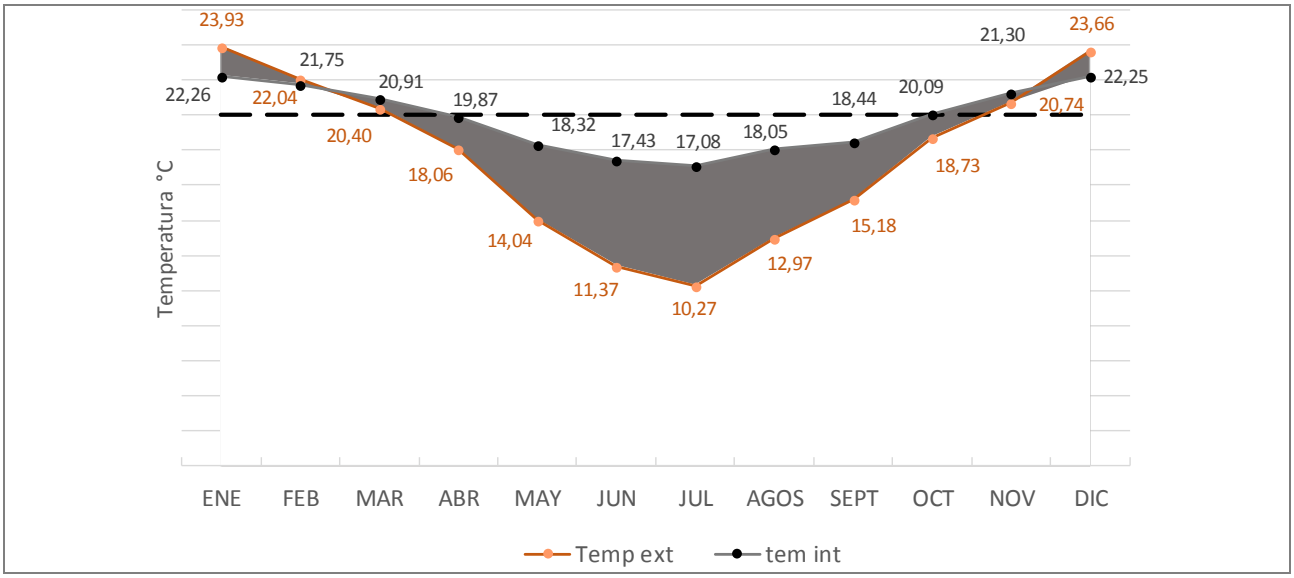
| STL-022 | MU | STEEL FRAME |
|---|---|---|

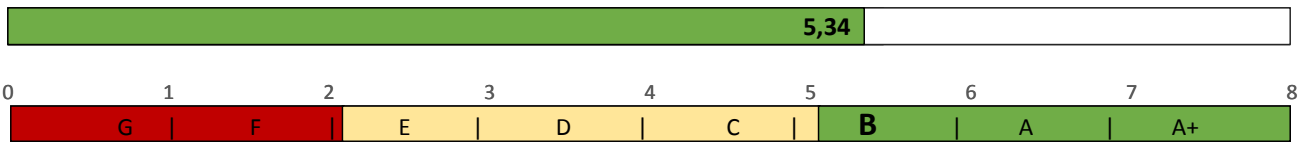
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,17** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,31** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



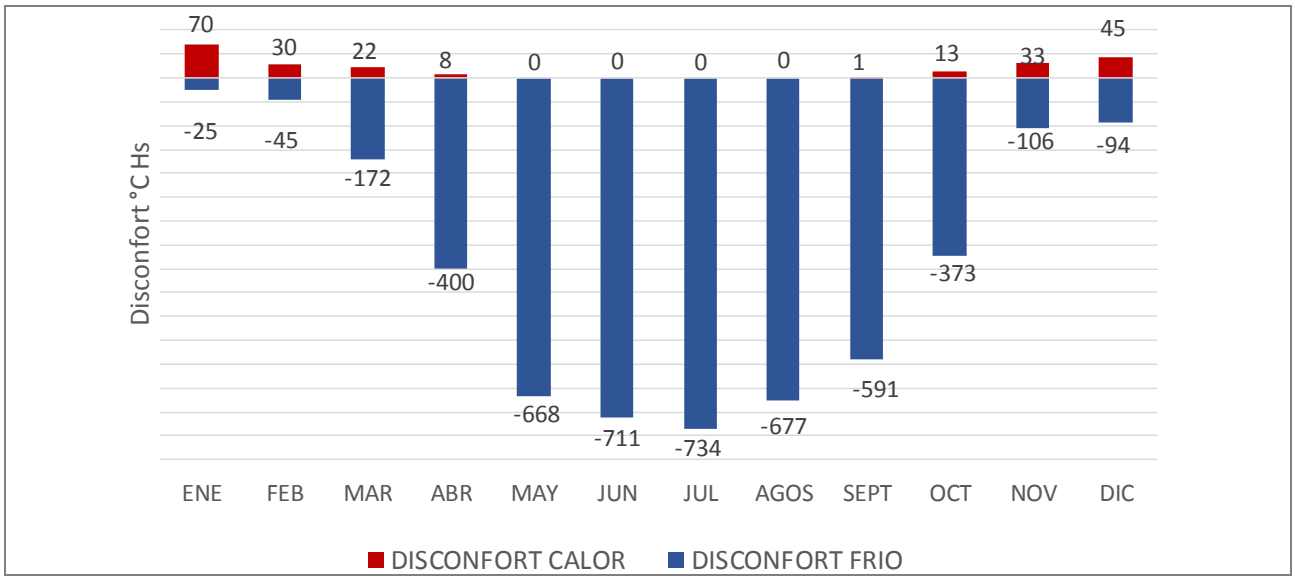




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-022 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

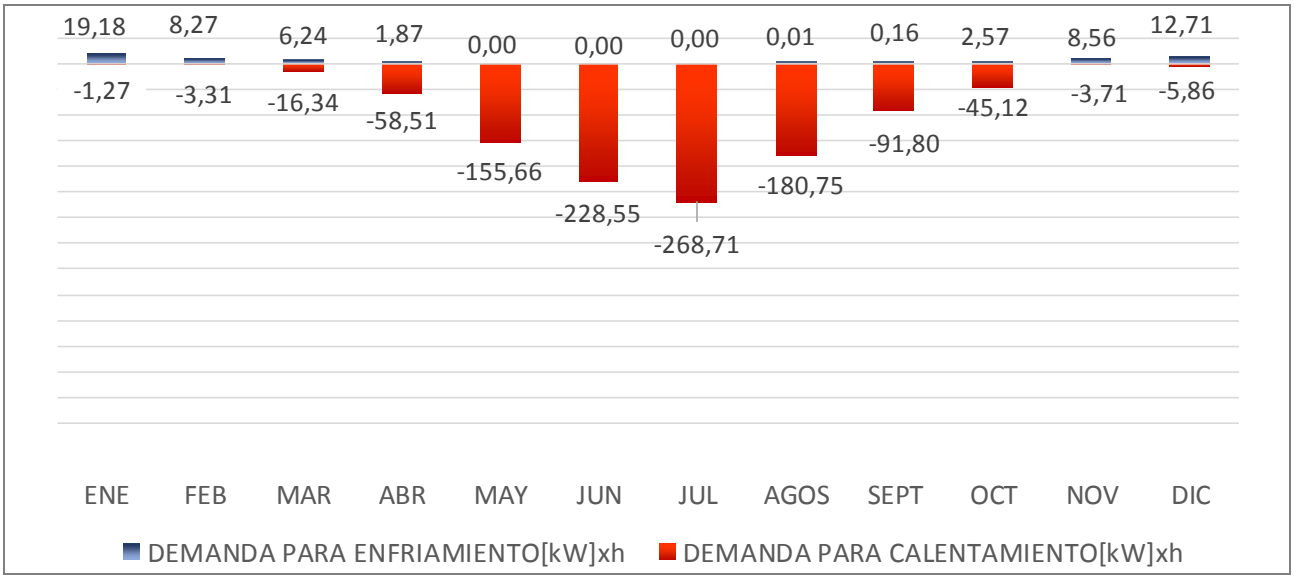
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **220** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.595** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.816** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

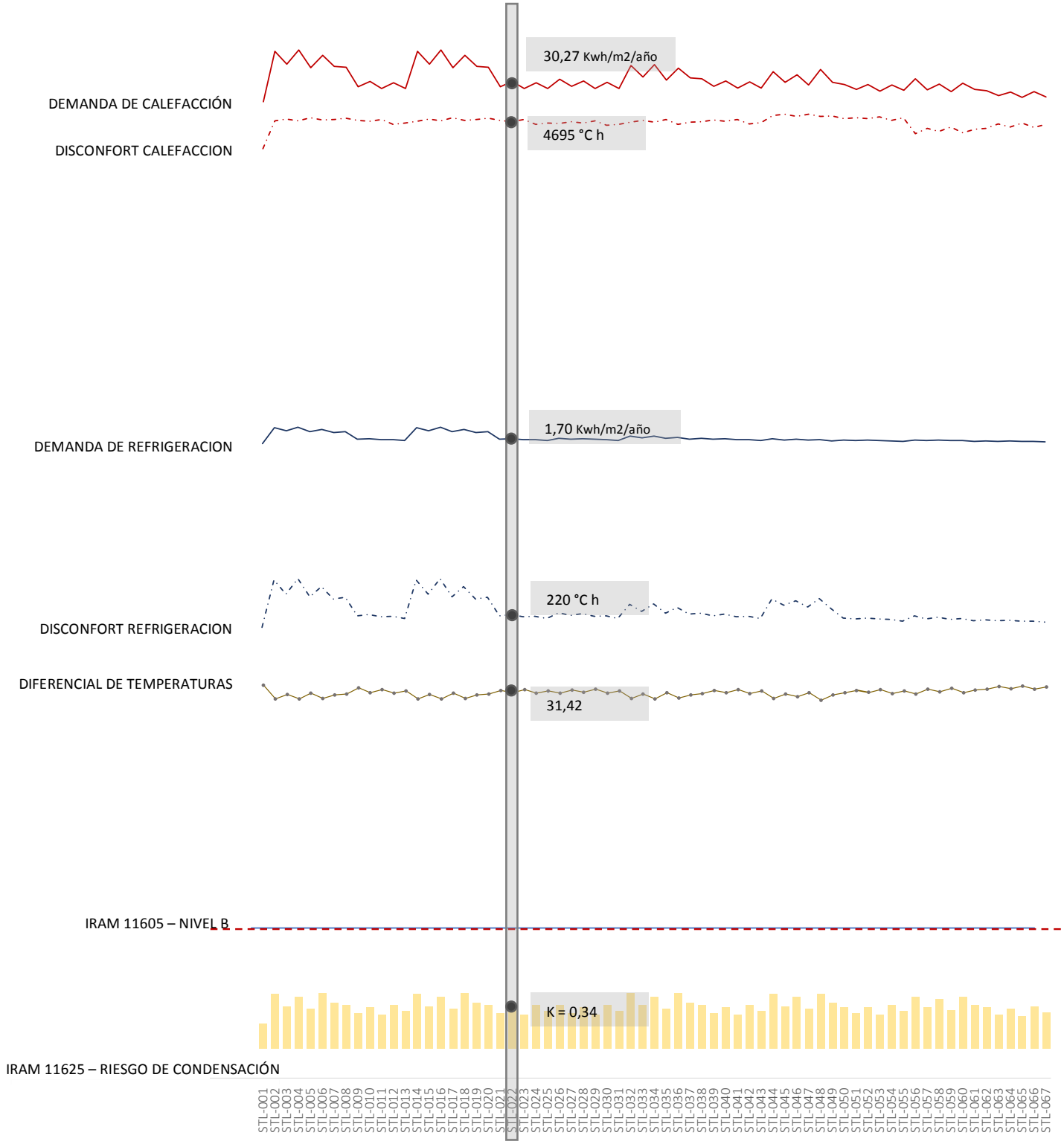



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **59,57** | kWh | 1,70 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.059,58** | kWh | 30,27 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.119,15** | kWh | **31,98** | kWh/m2/año |

| STL-022 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 038 | N° 045 | N° 079 | N° 135 | N° 149 | N° 114 |



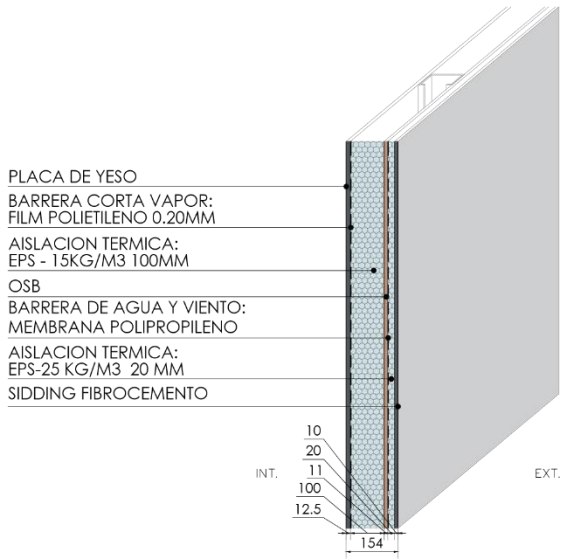

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,34 | 0% | 31,42 | 30,27 | 1,7 | 4595 | 220 |
| INC. FAMILIA | 96,28% | 0% | 100,32% | 95,00% | 67,89% | 100,02% | 78,16% |
| INC. MUNDIAL | 28,59% | 0% | 101,97% | 73,60% | 28,33% | 102,99% | 43,04% |

| STL-023 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG , HIDROFUGA Y BARRERA CORTAVAPOR

## INDICE DE TRANSMITANCIA TERMICA "K"

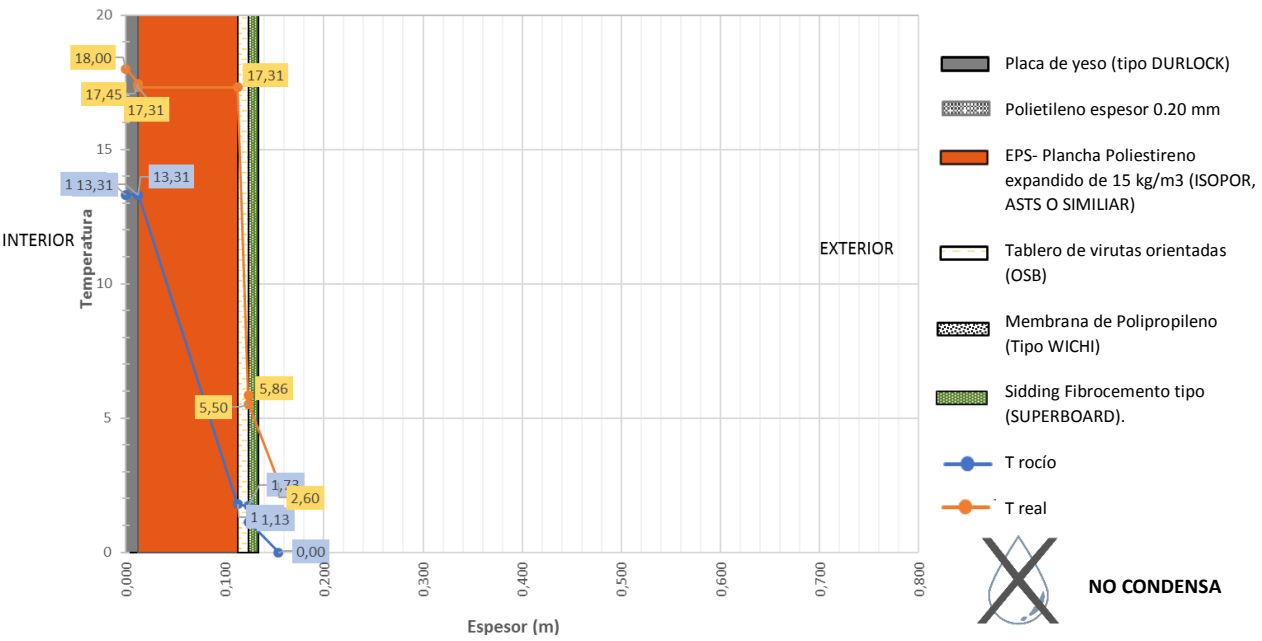
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,28 | 0,28 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



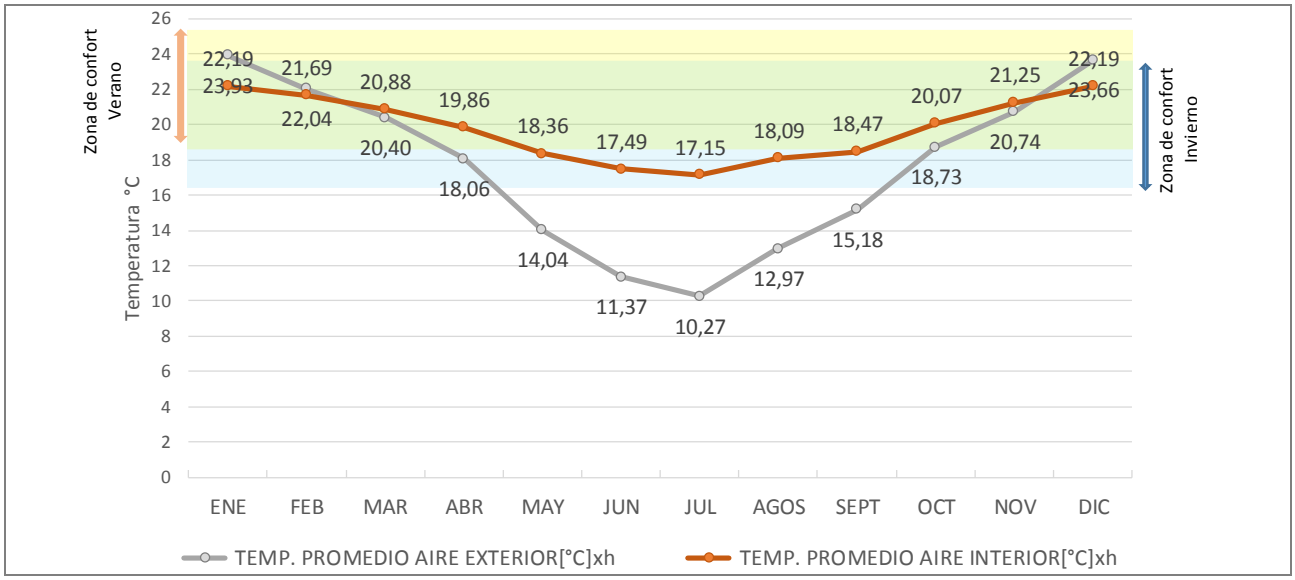

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,8 | 1,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,3** | **6,2** |
| | **Amortiguamiento:** | 0,096 | 0,099 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,9** | **4,7** |
| | **Amortiguamiento:** | 0,212 | 0,290 |

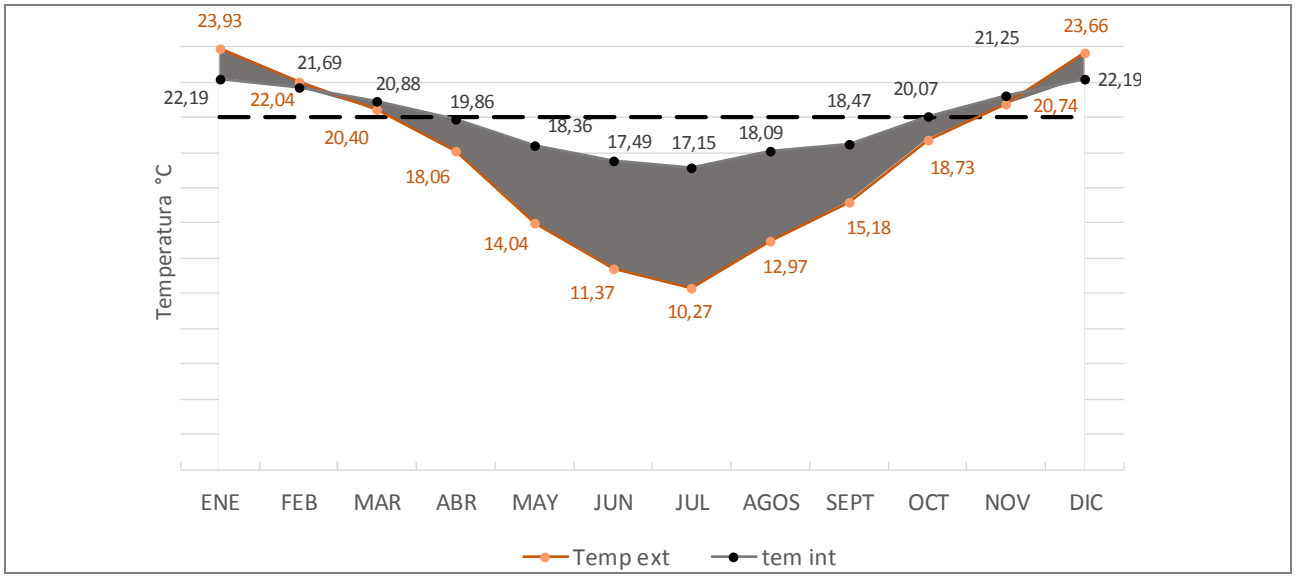
| STL-023 | MU | STEEL FRAME |
|---|---|---|

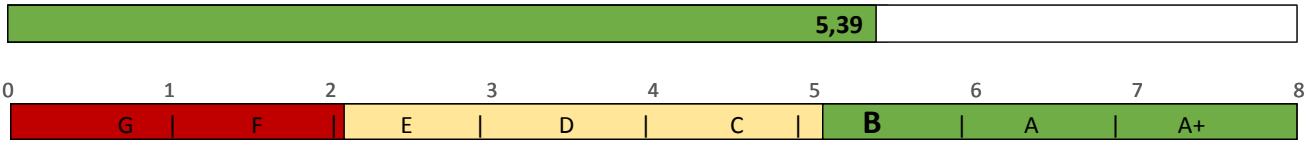
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,98** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **14,52** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



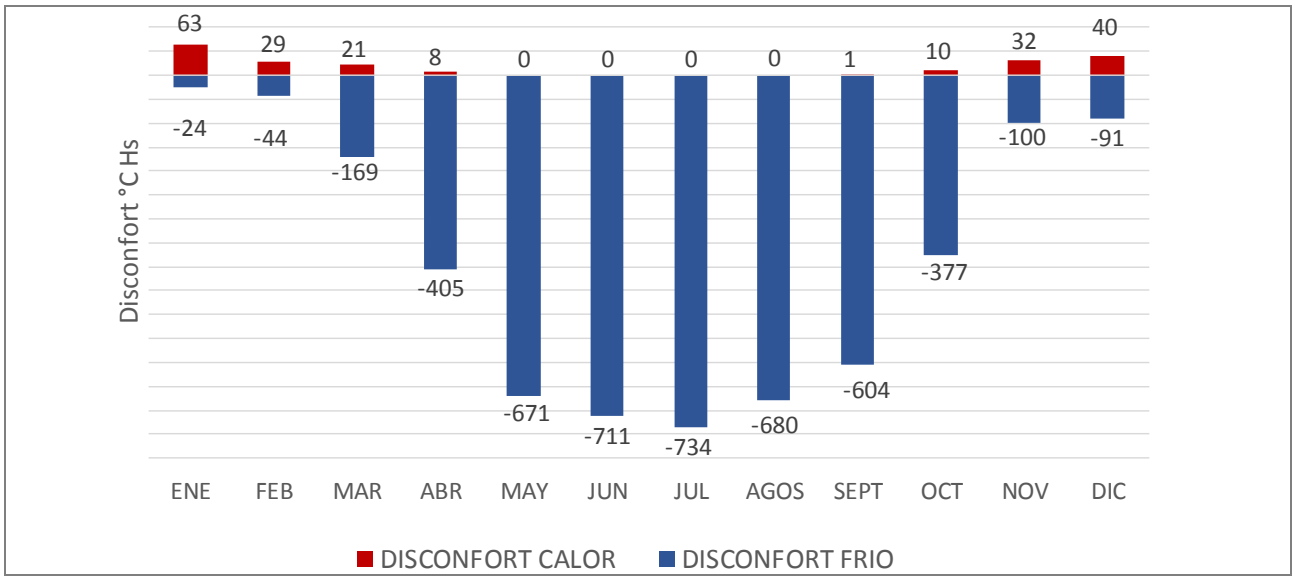




5,39 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-023 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

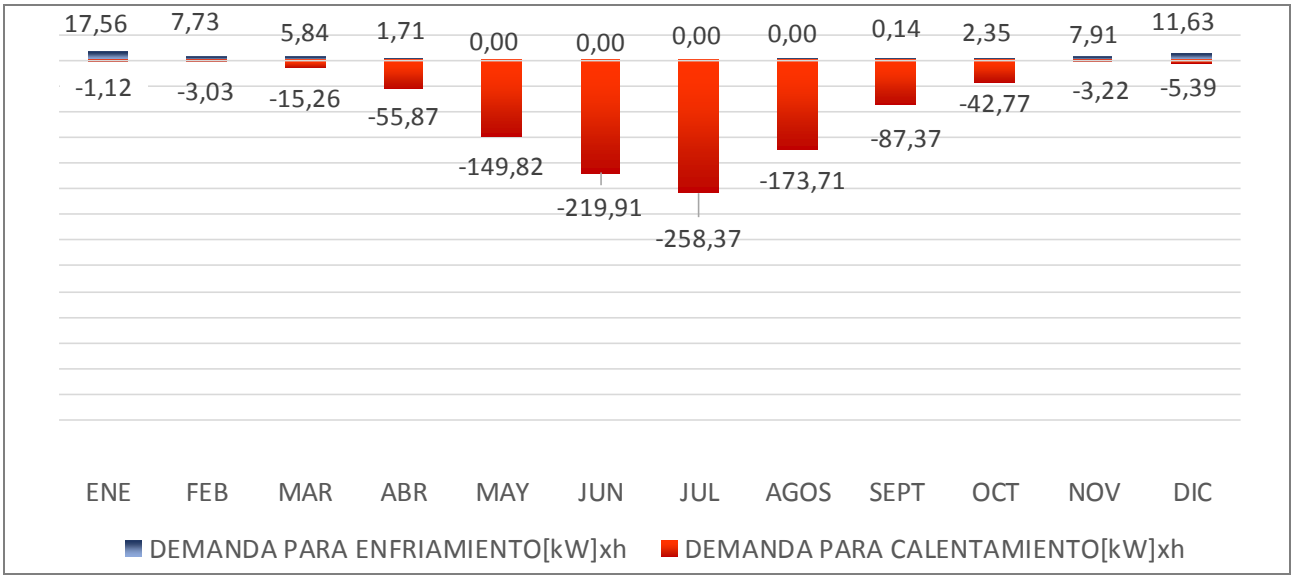
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **203** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.609** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.812** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

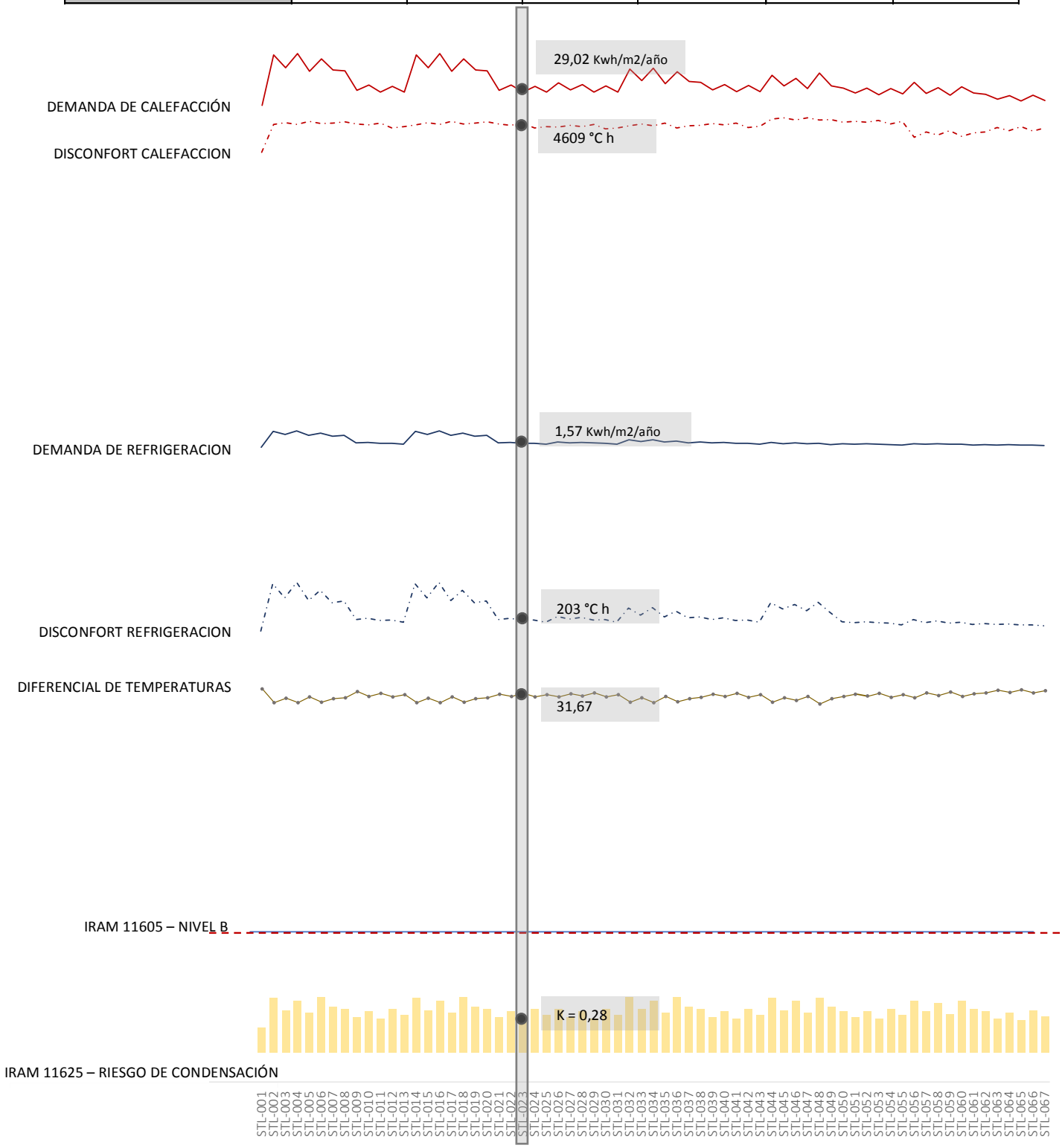



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **54,87** | kWh | 1,57 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.015,84** | kWh | 29,02 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.070,71** | kWh | **30,59** | kWh/m2/año |

| STL-023 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 008 | N° 025 | N° 027 | N° 113 | N° 168 | N° 096 |



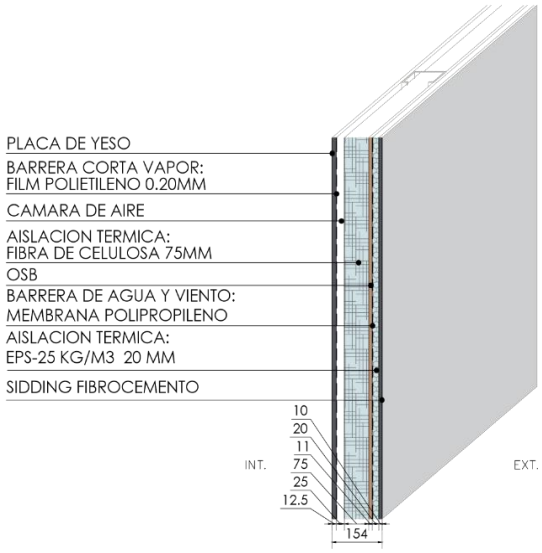

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,28 | 0% | 31,67 | 29,02 | 1,57 | 4609 | 203 |
| INC. FAMILIA | 79,29% | 0% | 101,12% | 91,08% | 62,70% | 100,32% | 72,12% |
| INC. MUNDIAL | 23,54% | 0% | 102,78% | 70,56% | 26,16% | 103,30% | 39,71% |

| STL-024 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

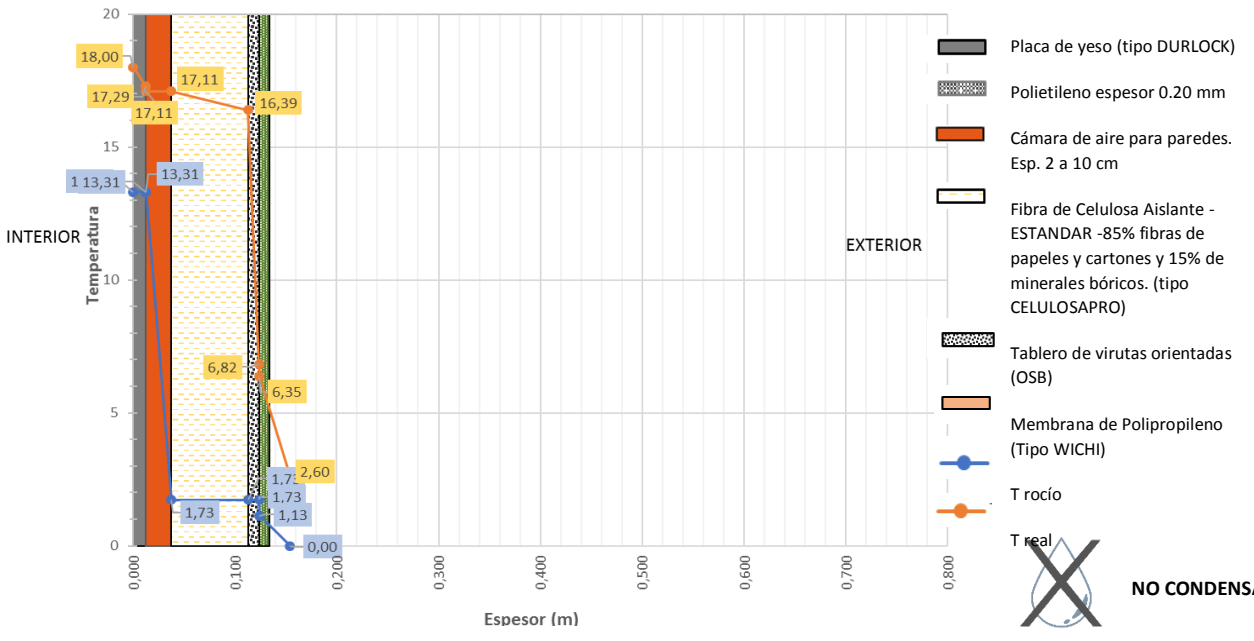
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



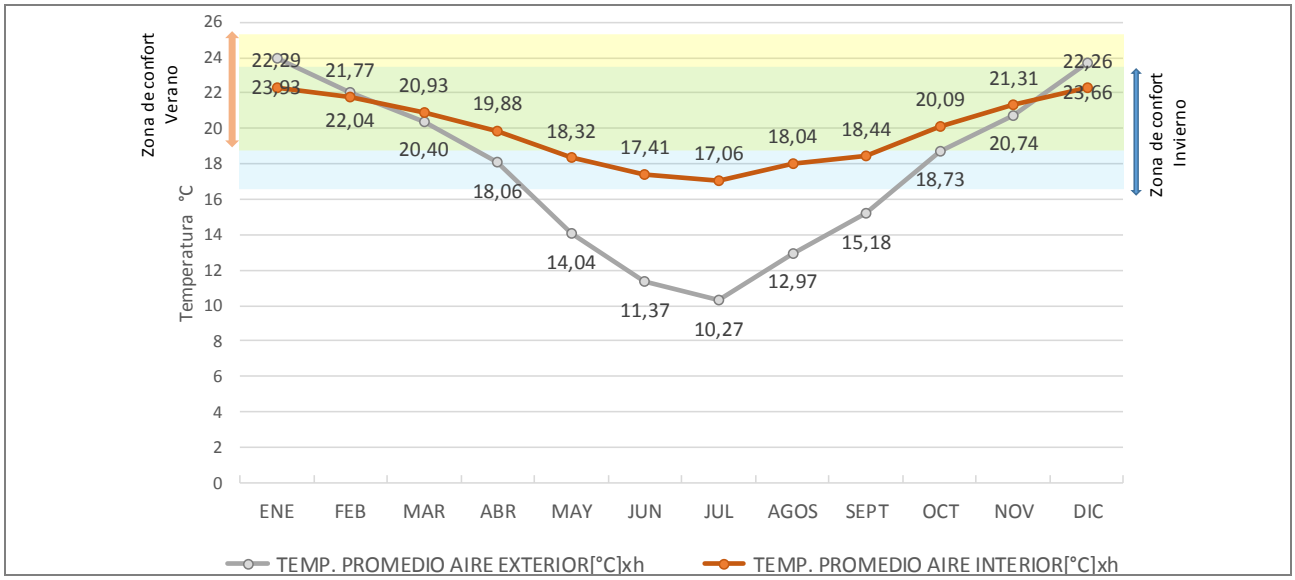

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,5 | 3,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,8** | **6,7** |
| | **Amortiguamiento:** | 0,080 | 0,082 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,7** | **5,2** |
| | **Amortiguamiento:** | 0,223 | 0,257 |

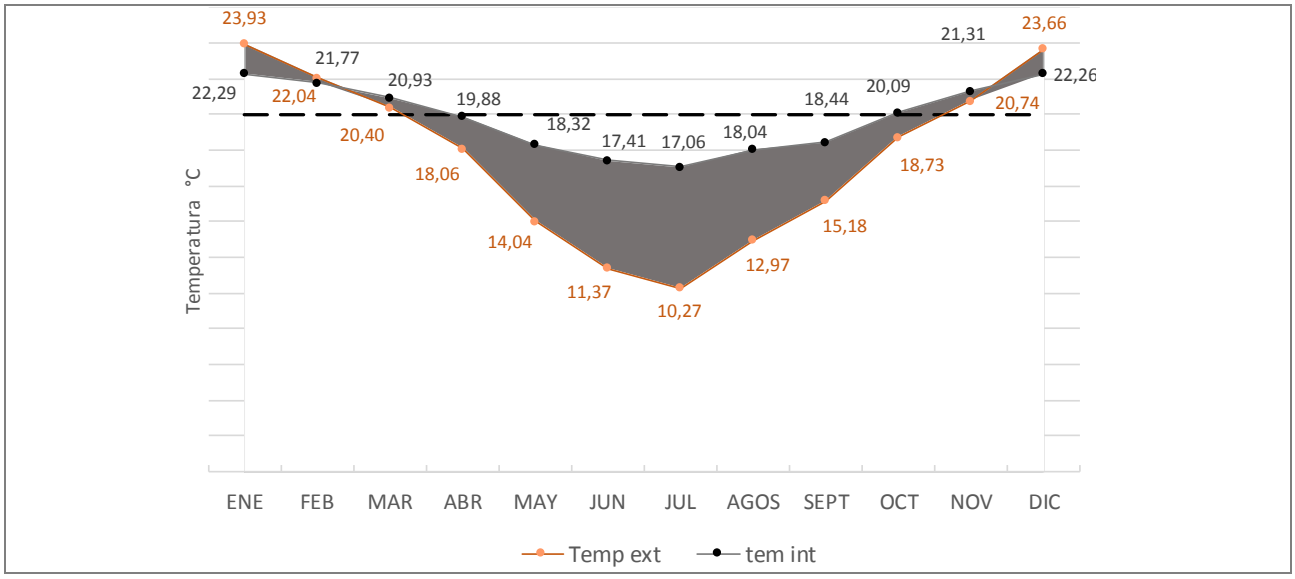
| STL-024 | MU | STEEL FRAME |
|---|---|---|

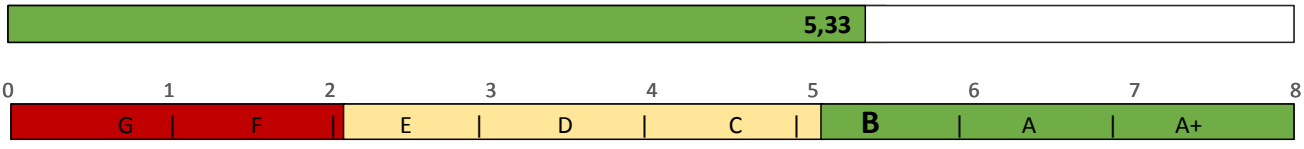
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,98** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,42** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



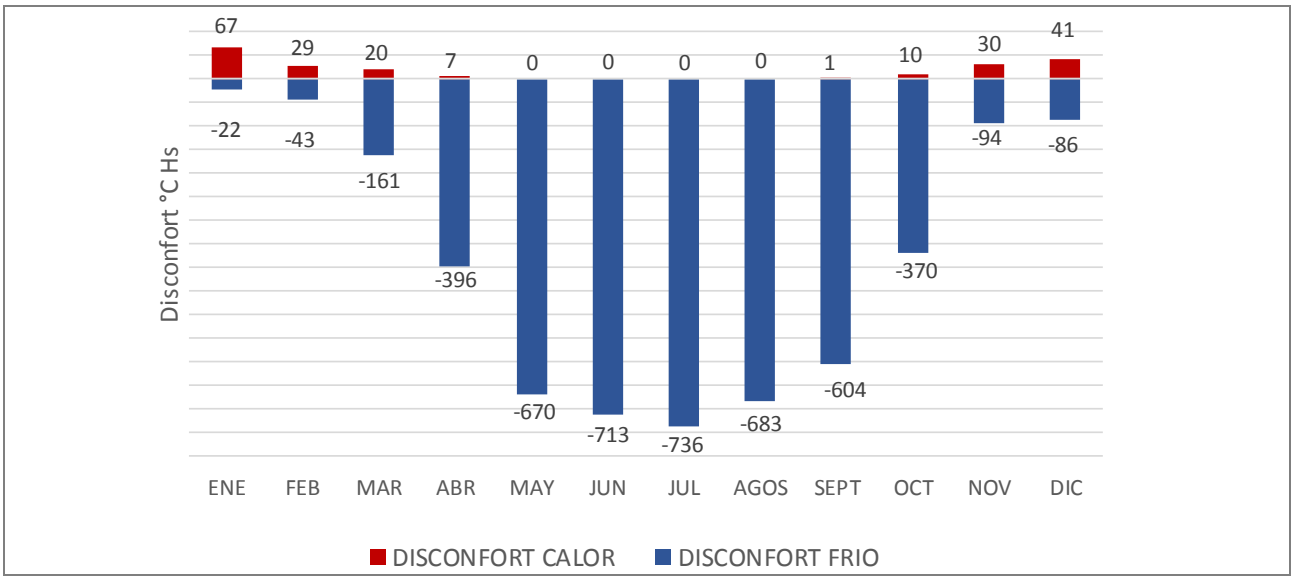




5,33 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-024 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

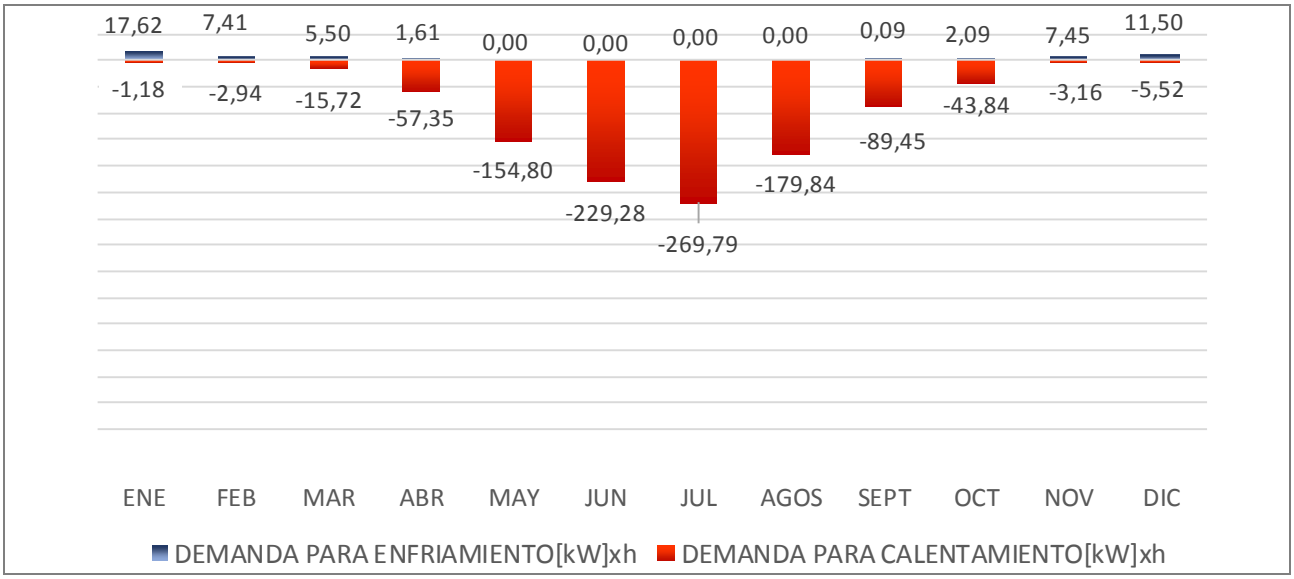
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **205** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.578** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.783** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

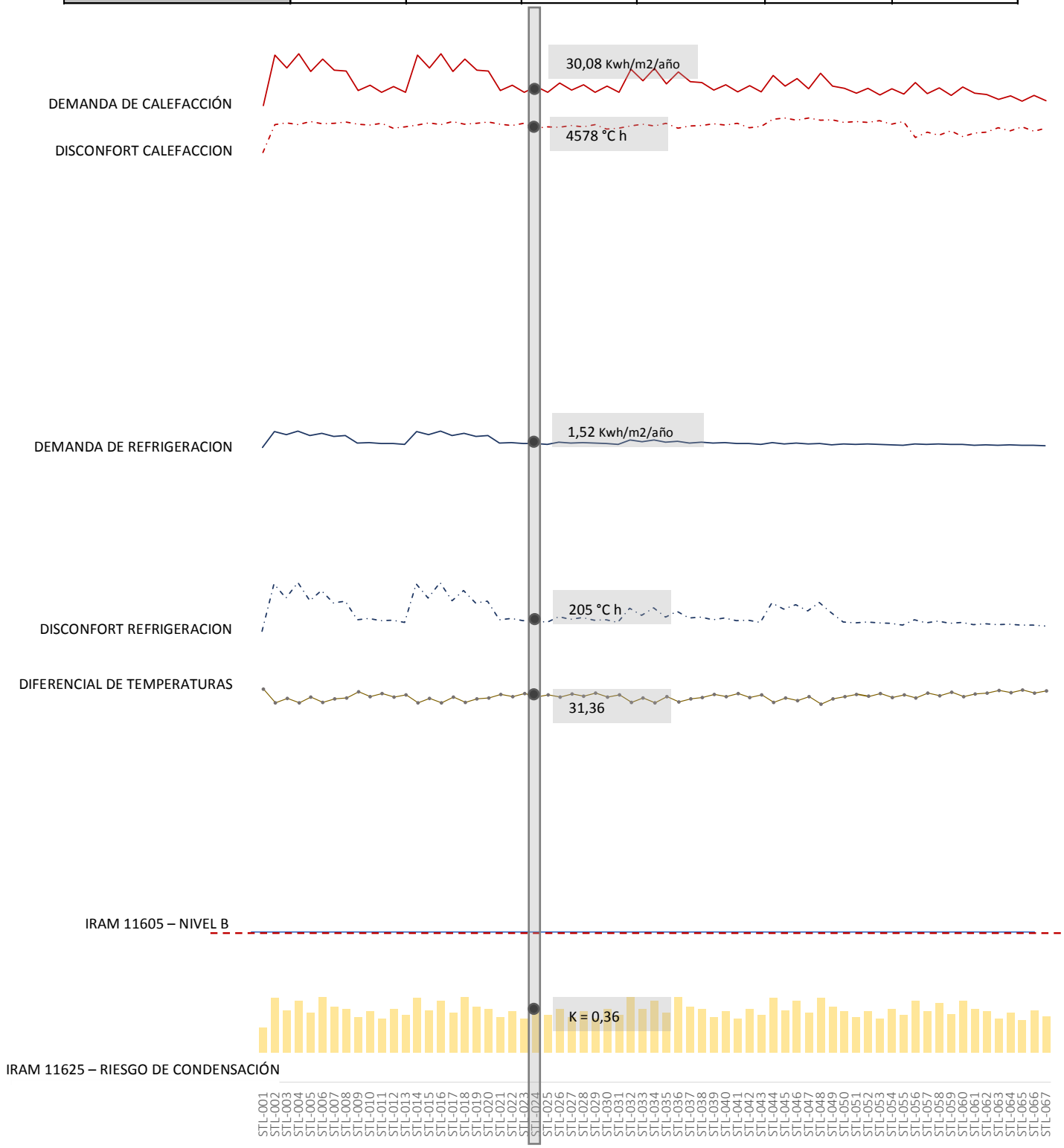



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **53,25** | kWh | 1,52 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.052,84** | kWh | 30,08 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.106,10** | kWh | **31,60** | kWh/m2/año |

| STL-024 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 053 | N° 062 | N° 066 | N° 108 | N° 131 | N° 101 |



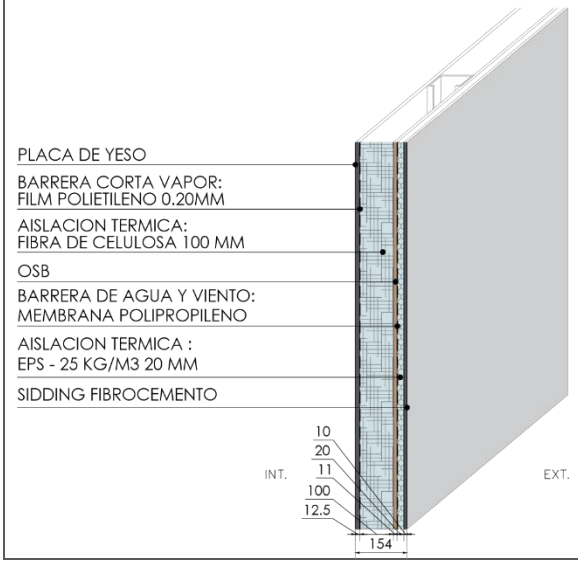

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,36 | 0% | 31,36 | 30,08 | 1,52 | 4578 | 205 |
| INC. FAMILIA | 101,94% | 0% | 100,13% | 94,41% | 60,71% | 99,65% | 72,83% |
| INC. MUNDIAL | 30,27% | 0% | 101,77% | 73,14% | 25,33% | 102,61% | 40,11% |

| STL-025 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE LISTONES DE SIDING E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

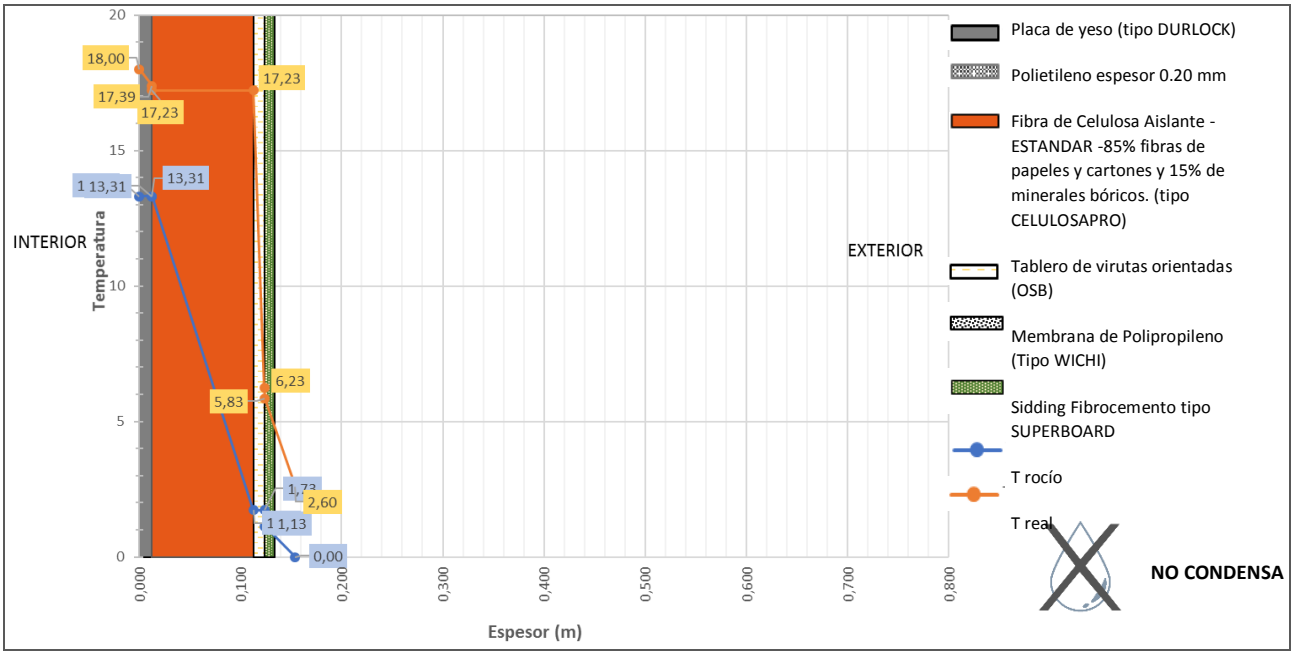
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,31 | 0,31 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



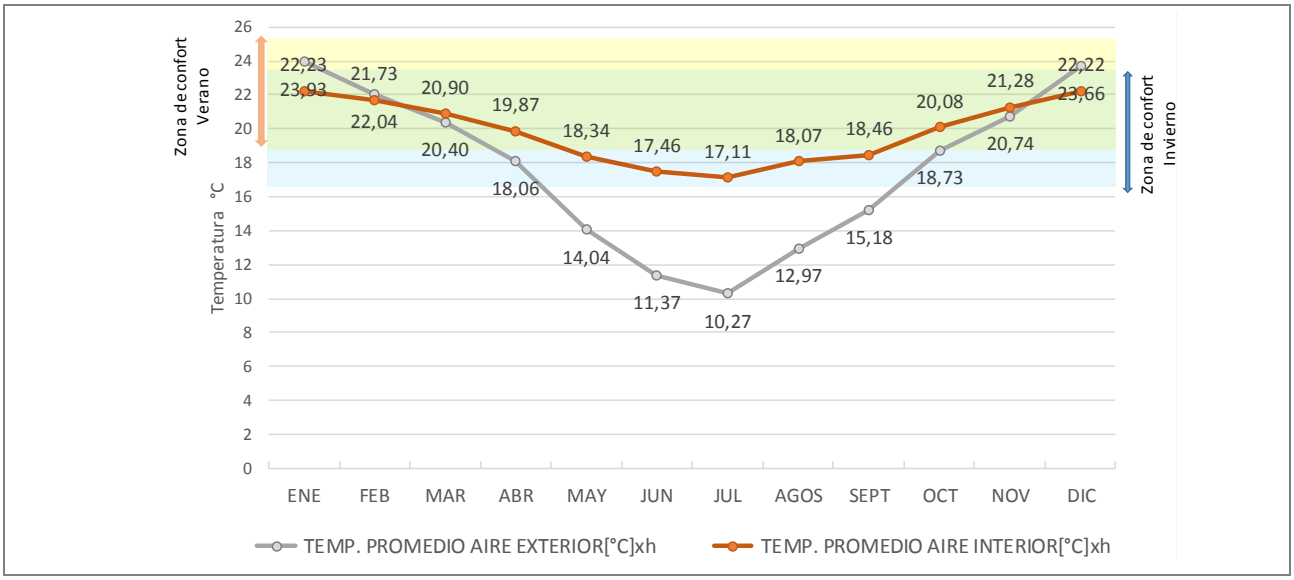

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,3 | 3,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,8** | **7,7** |
| | **Amortiguamiento:** | 0,056 | 0,058 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,4** | **5,9** |
| | **Amortiguamiento:** | 0,188 | 0,215 |

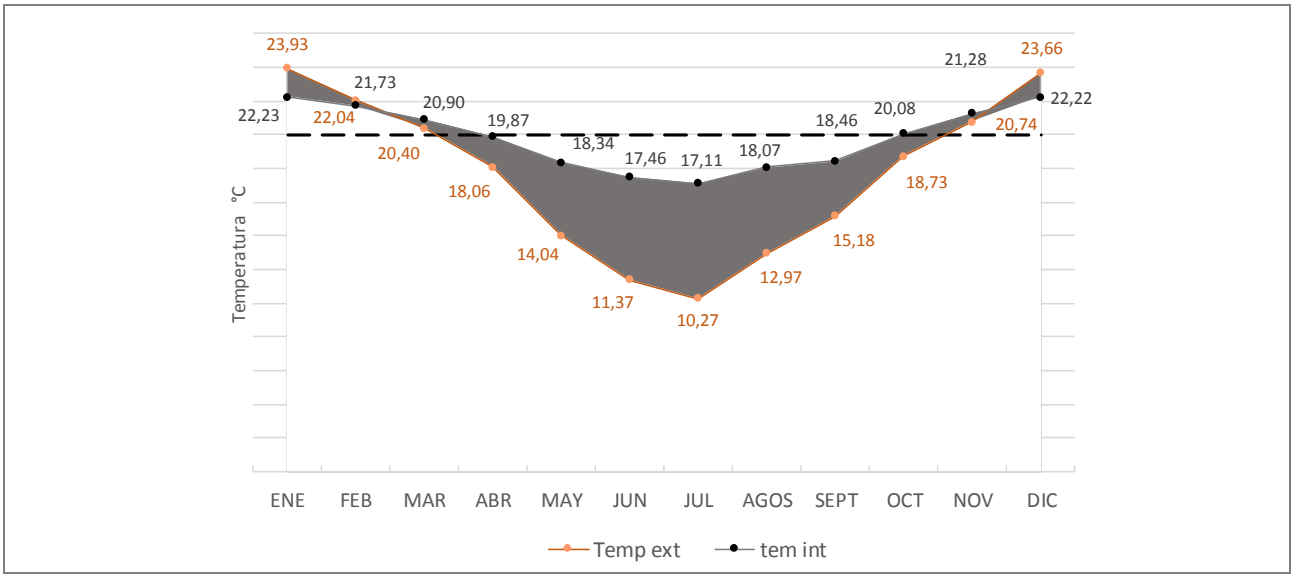
| STL-025 | MU | STEEL FRAME |
|---|---|---|

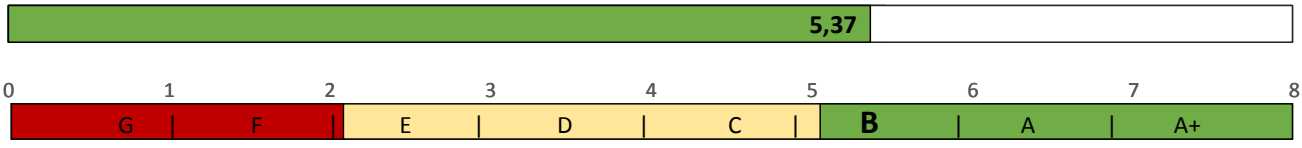
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,79** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,62** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



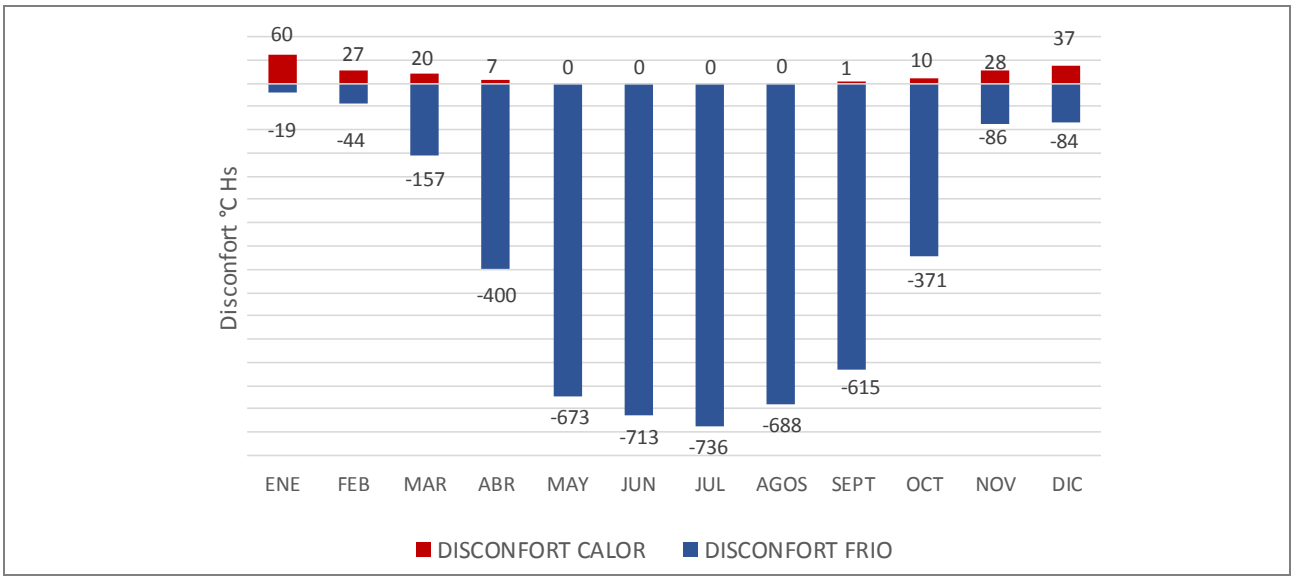




5,37 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-025 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

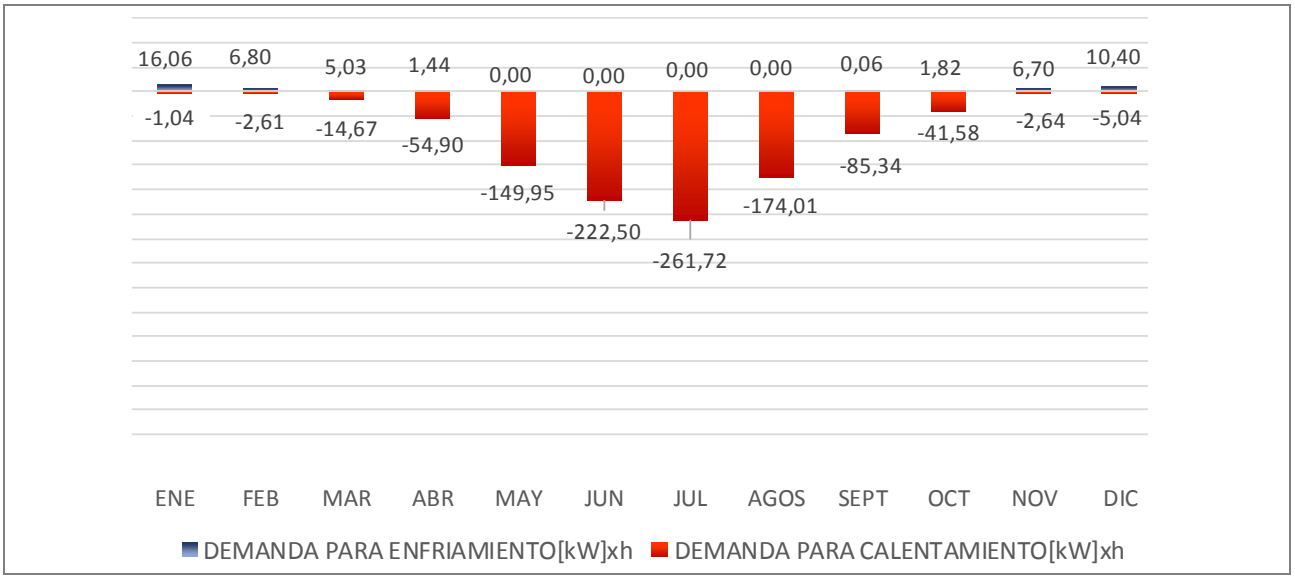
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **189** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.586** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.775** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

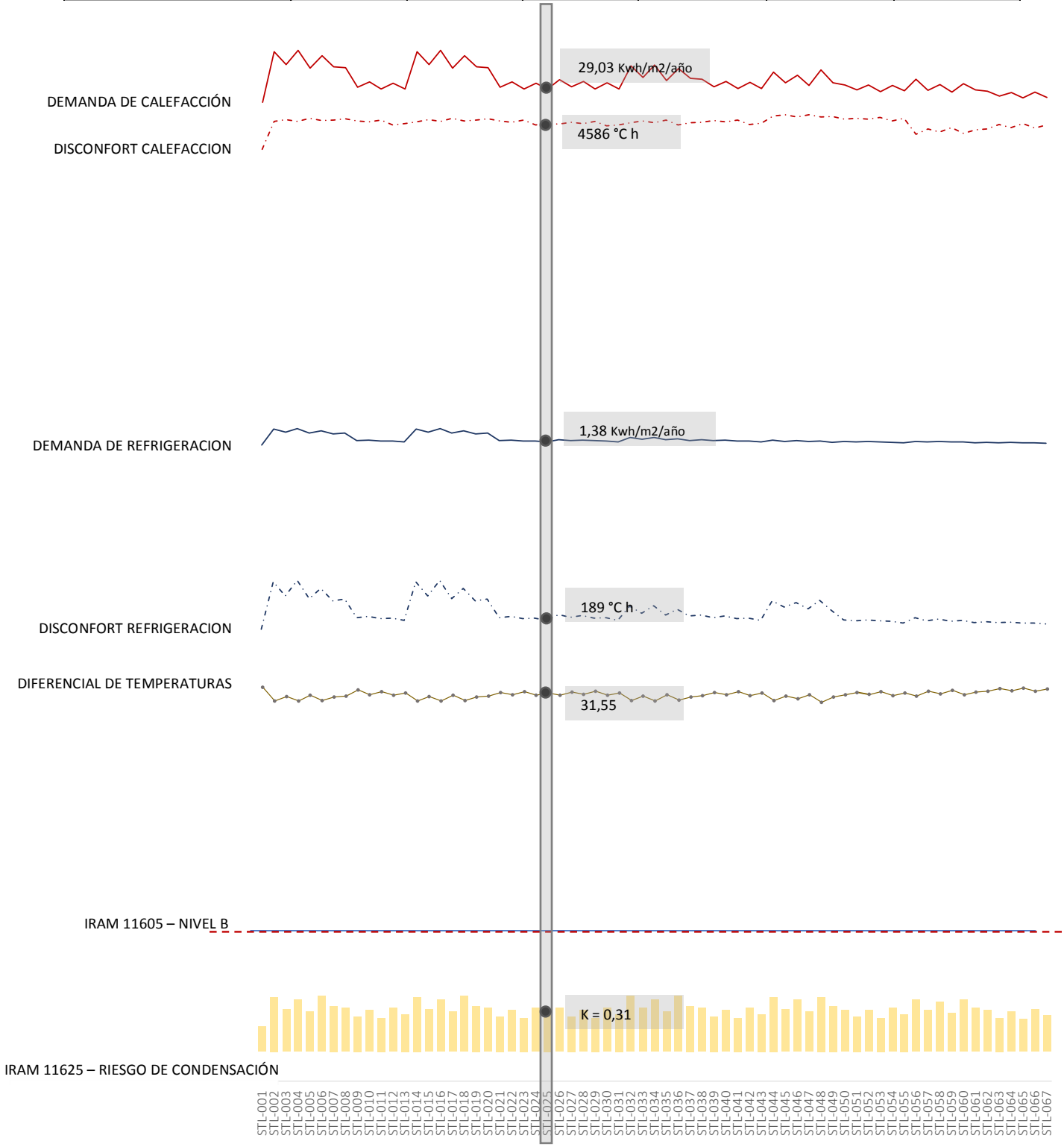



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **48,30** | kWh | 1,38 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.016,01** | kWh | 29,03 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.064,31** | kWh | **30,41** | kWh/m2/año |

| STL-025 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 021 | N° 036 | N° 030 | N° 086 | N° 142 | N° 072 |



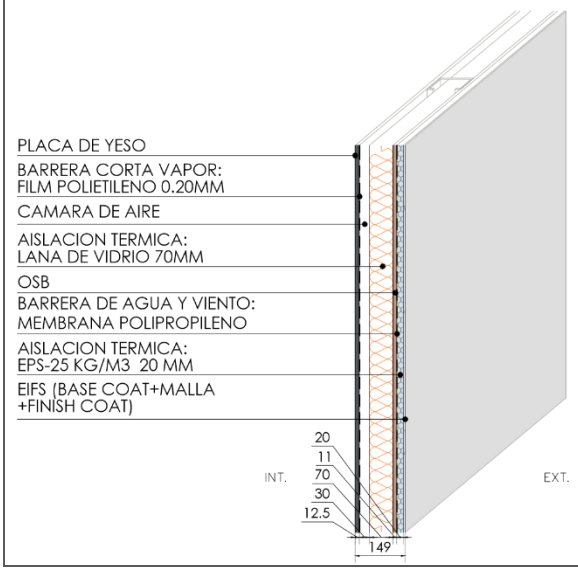

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,31 | 0% | 31,55 | 29,03 | 1,38 | 4586 | 189 |
| INC. FAMILIA | 87,79% | 0% | 100,74% | 91,11% | 55,11% | 99,82% | 67,15% |
| INC. MUNDIAL | 26,06% | 0% | 102,39% | 70,59% | 22,99% | 102,79% | 36,98% |

| STL-026 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 70MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

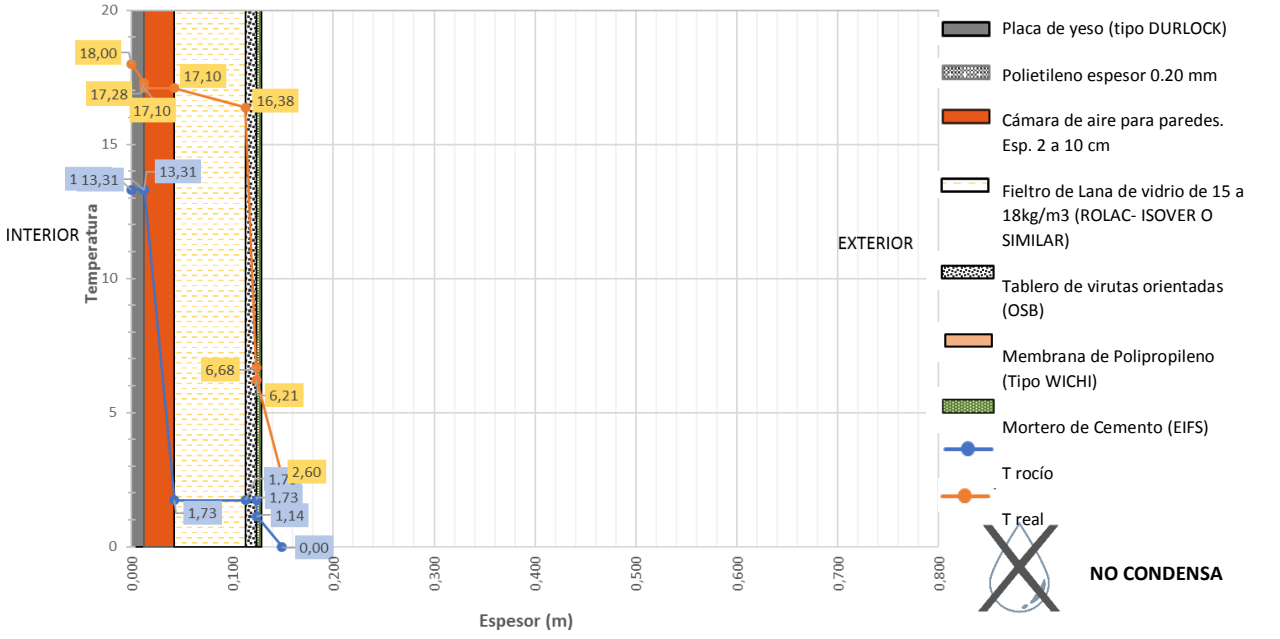
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



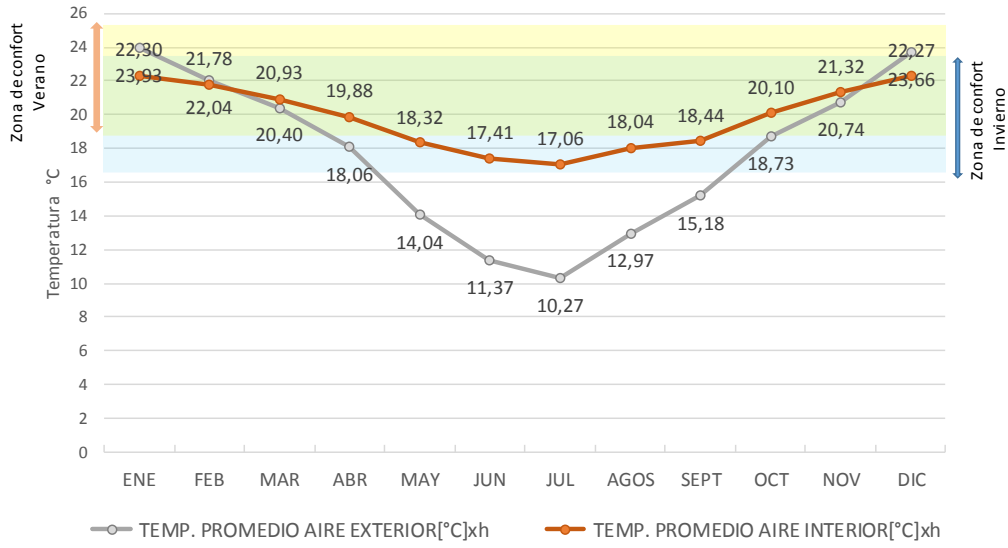

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,0 | 2,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,0** | **5,4** |
| | **Amortiguamiento:** | 0,154 | 0,135 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,7** | **4,2** |
| | **Amortiguamiento:** | 0,294 | 0,334 |

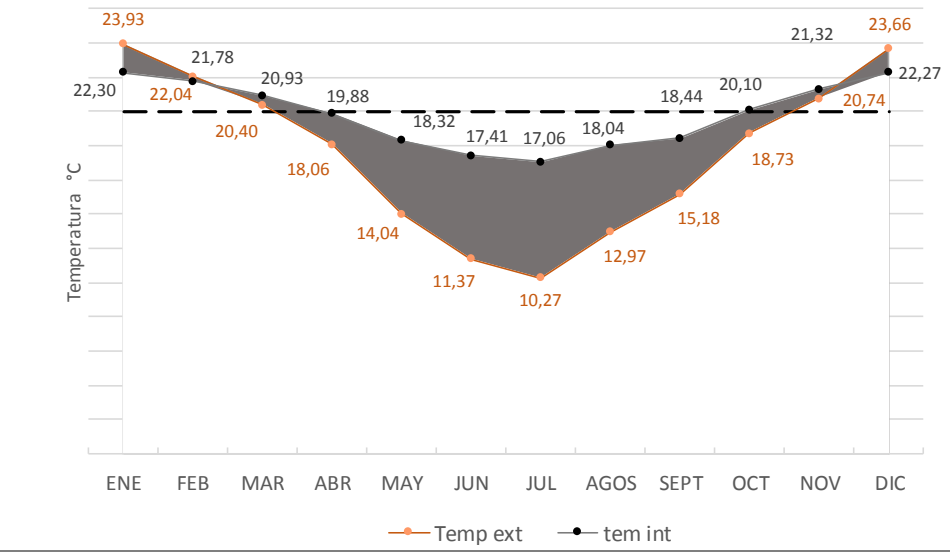
| STL-026 | MU | STEEL FRAME |
|---|---|---|

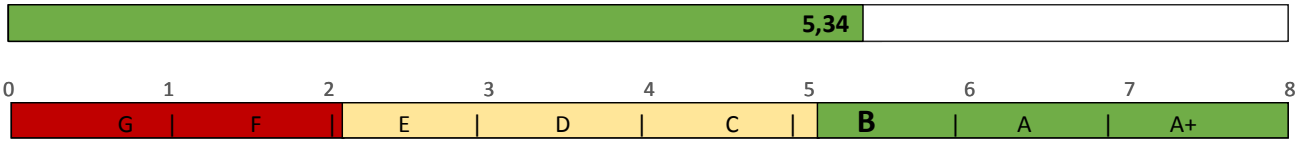
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,29** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,21** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



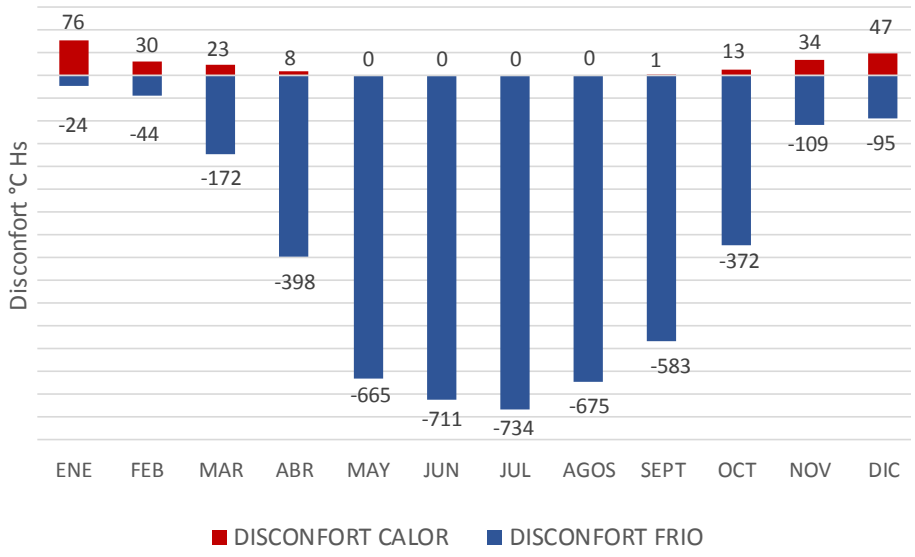




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-026 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

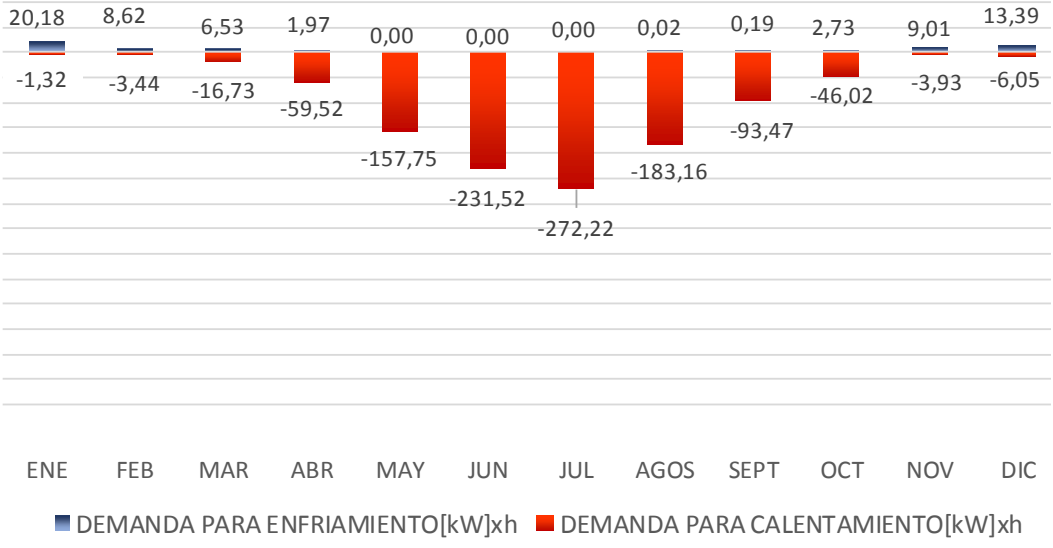
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **232** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.582** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.814** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

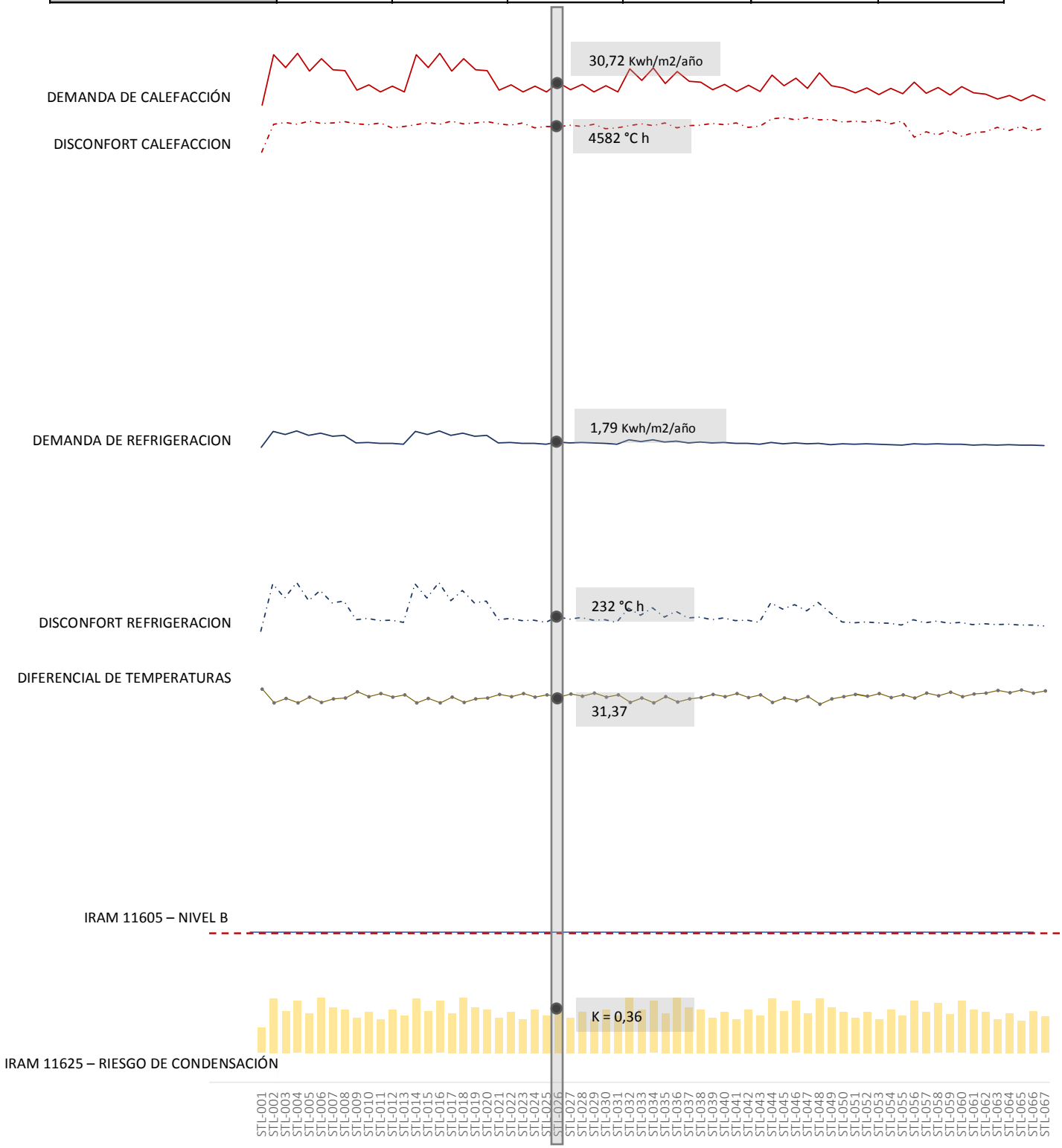



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **62,63** | kWh | 1,79 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.075,12** | kWh | 30,72 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.137,75** | kWh | **32,51** | kWh/m2/año |

| STL-026 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 054 | N° 058 | N° 089 | N° 140 | N° 137 | N° 122 |



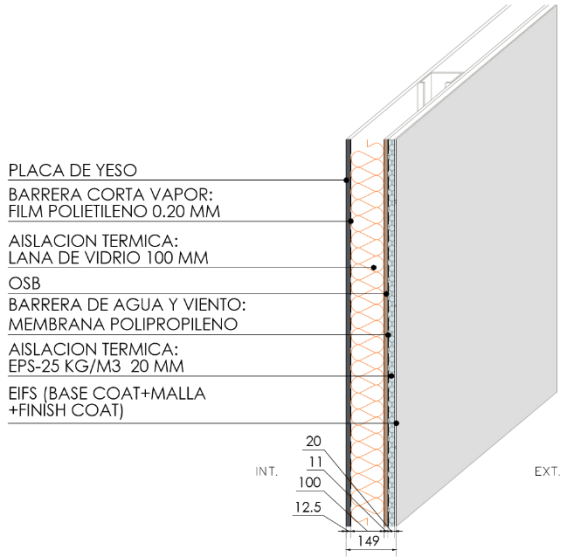

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,36 | 0% | 31,37 | 30,72 | 1,79 | 4582 | 232 |
| INC. FAMILIA | 101,94% | 0% | 100,16% | 96,41% | 71,49% | 99,73% | 82,42% |
| INC. MUNDIAL | 30,27% | 0% | 101,81% | 74,70% | 29,82% | 102,70% | 45,39% |

| STL-027 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR

## INDICE DE TRANSMITANCIA TERMICA "K"

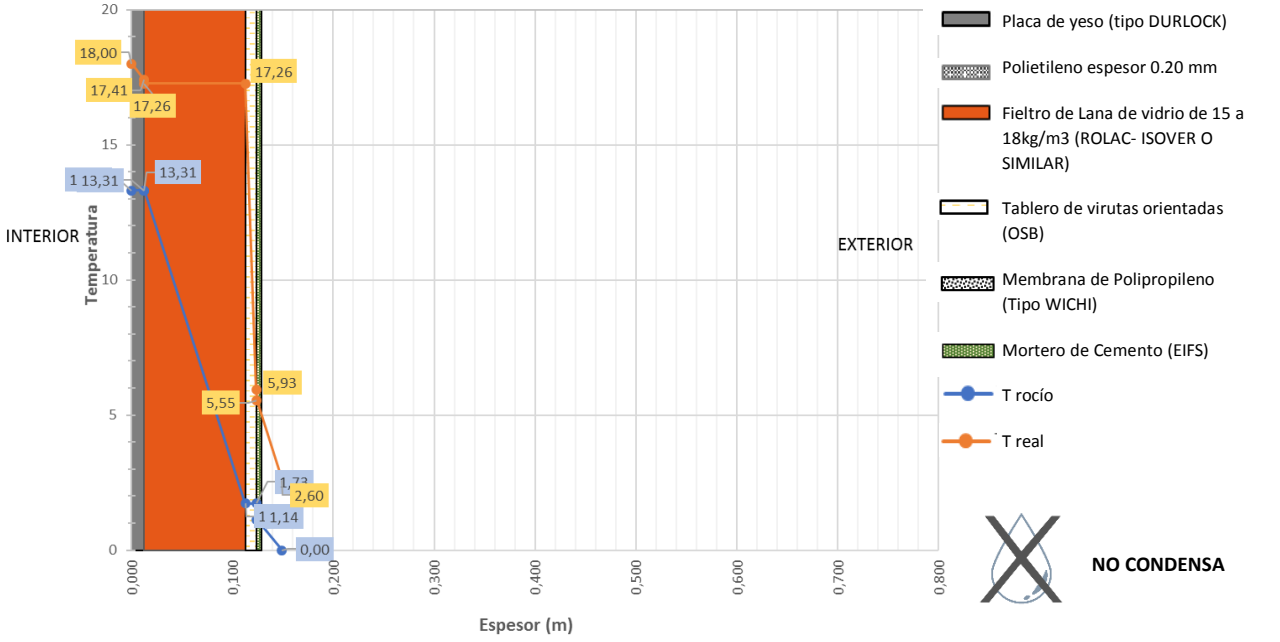
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,29 | 0,29 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



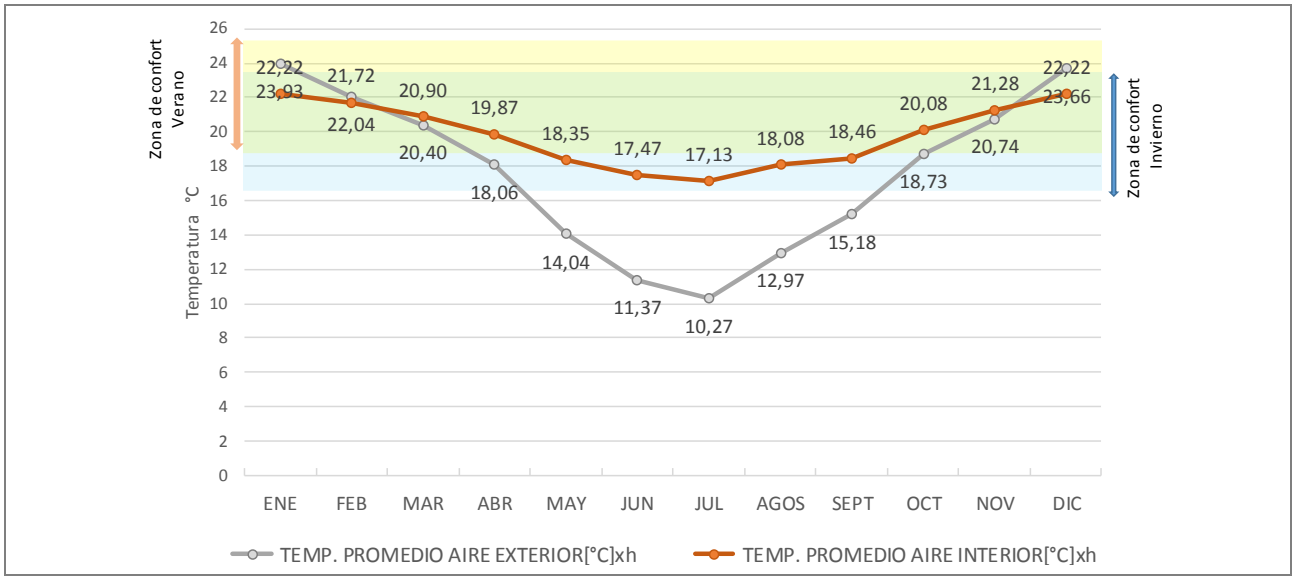

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,6 | 1,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,6** | **6,0** |
| | **Amortiguamiento:** | 0,125 | 0,108 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,2** | **4,6** |
| | **Amortiguamiento:** | 0,254 | 0,303 |

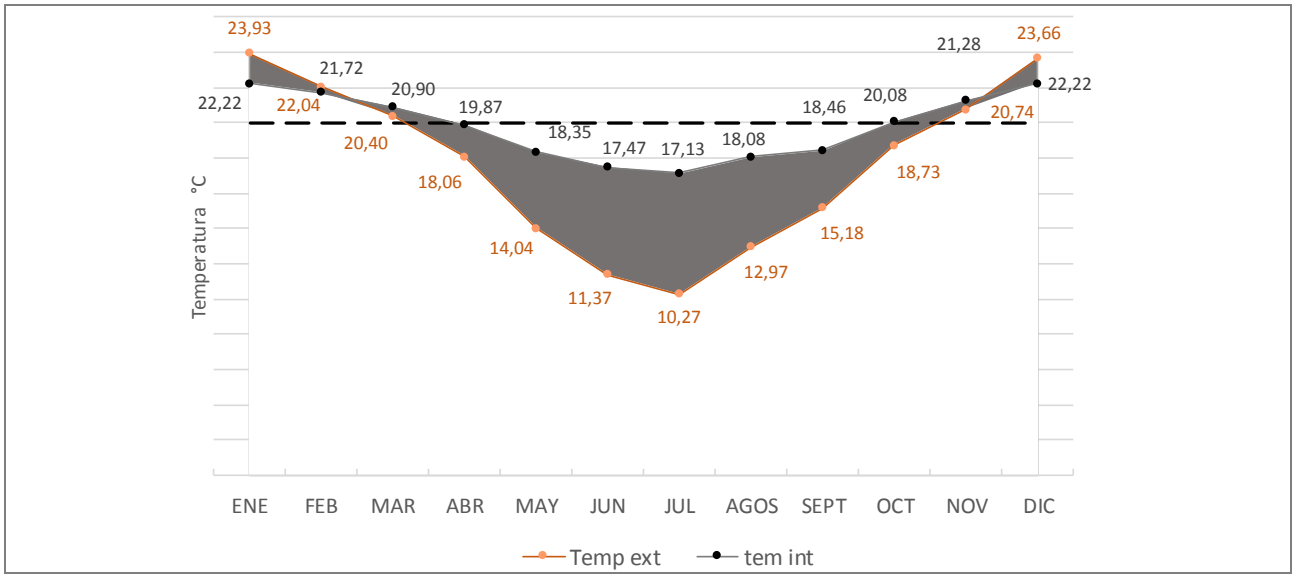
| STL-027 | MU | STEEL FRAME |
|---|---|---|

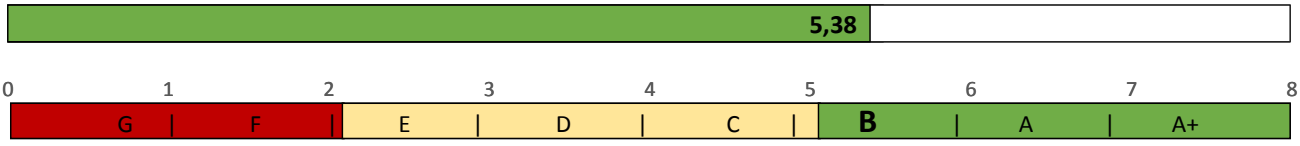
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,09** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **14,44** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



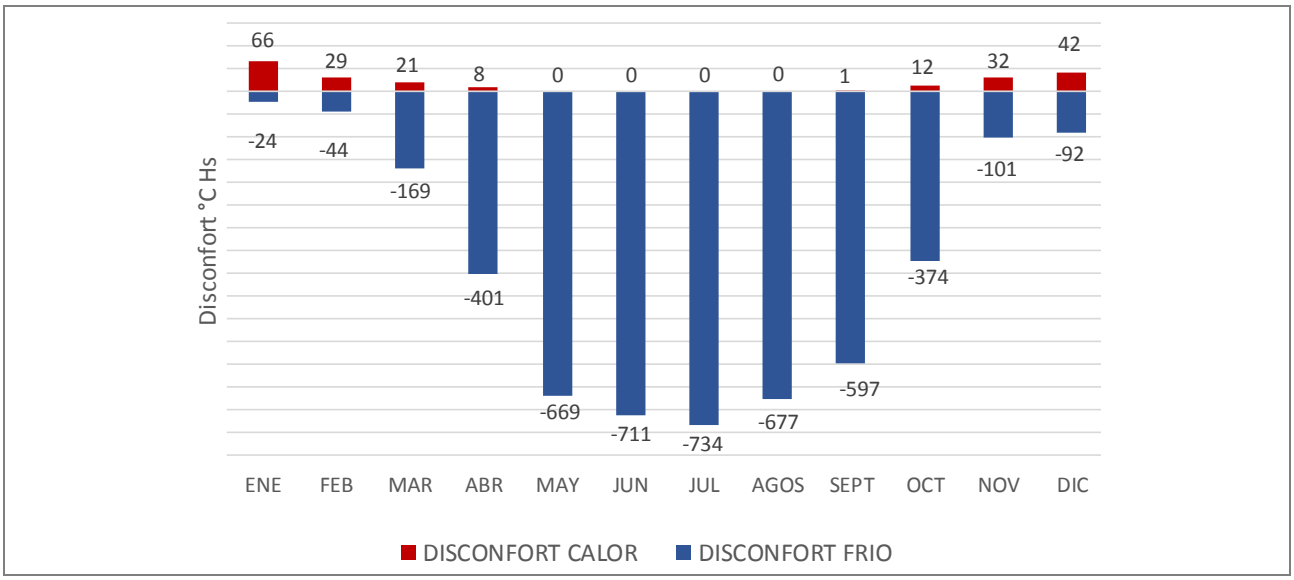




5,38 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-027 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

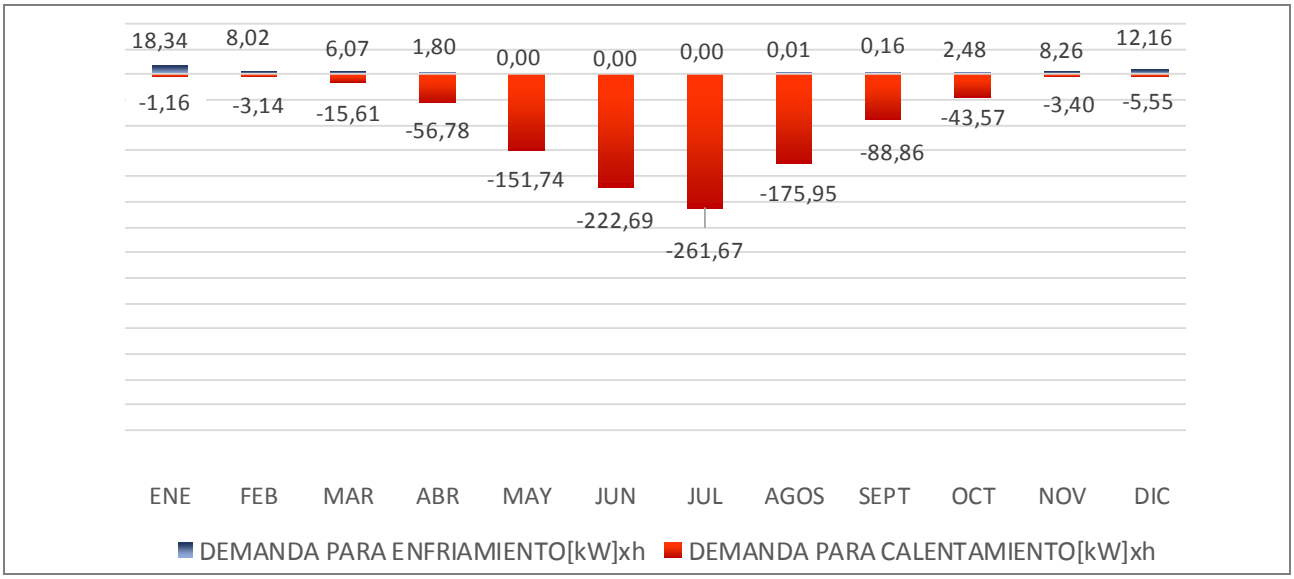
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **211** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.594** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.804** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

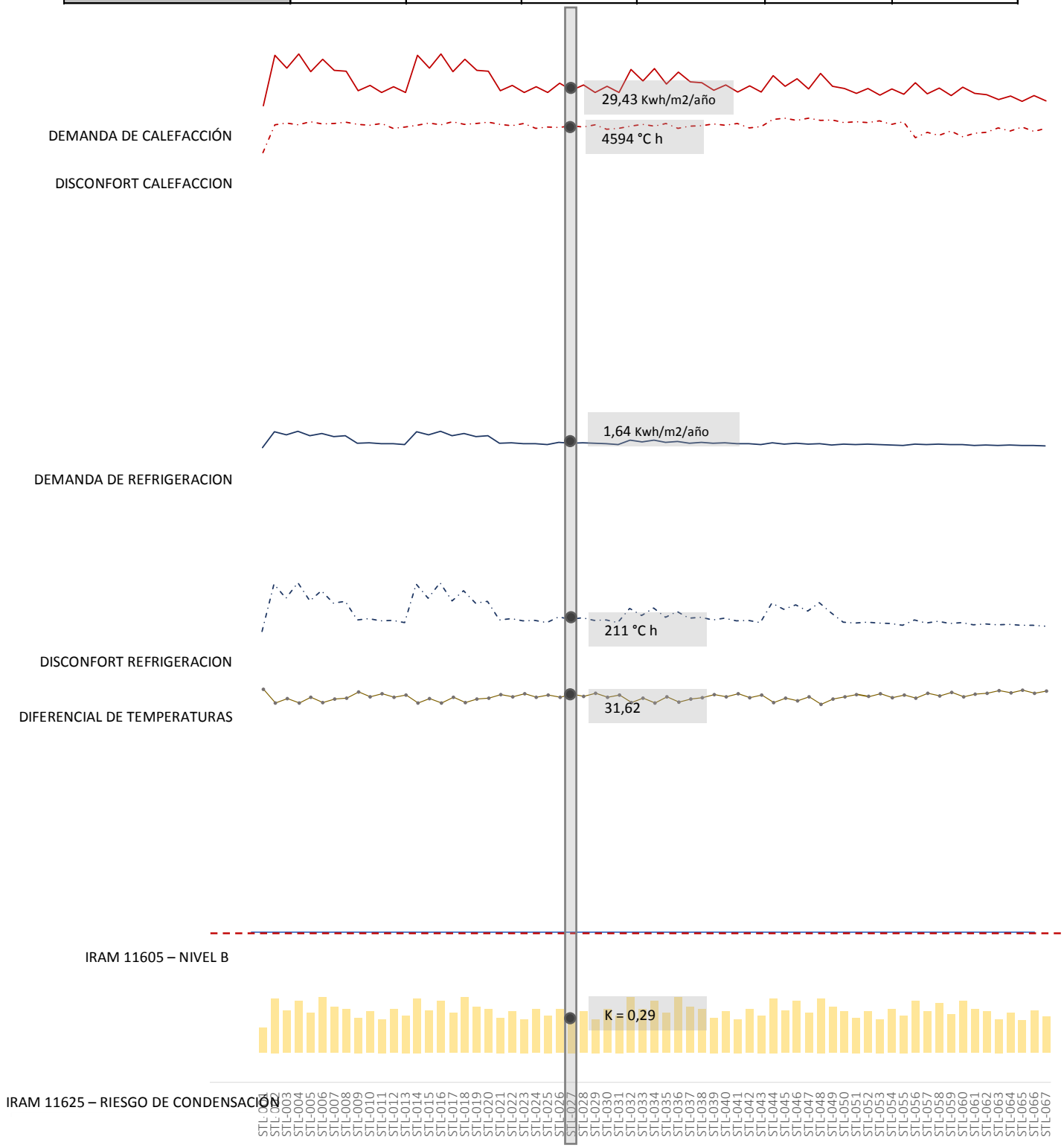



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **57,31** | kWh | 1,64 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.030,11** | kWh | 29,43 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.087,43** | kWh | **31,07** | kWh/m2/año |

| STL-027 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 015 | N° 028 | N° 046 | N° 127 | N° 148 | N° 111 |



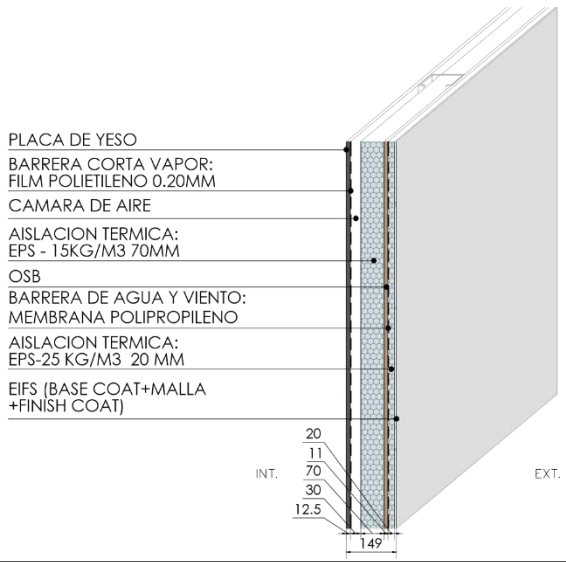

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,29 | | 31,62 | 29,43 | 1,64 | 4594 | 211 |
| INC. FAMILIA | 82,12% | 0% | 100,96% | 92,37% | 65,50% | 100,00% | 74,96% |
| INC. MUNDIAL | 24,38% | 0% | 102,62% | 71,56% | 27,33% | 102,97% | 41,28% |

| STL-028 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

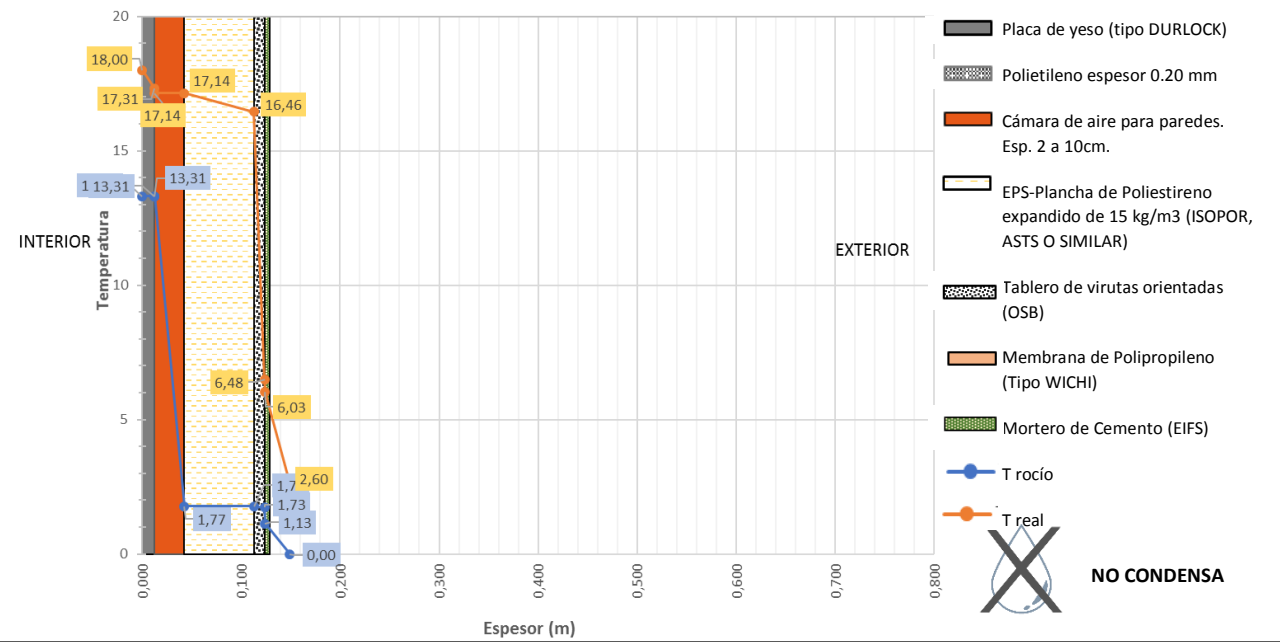
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,34 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



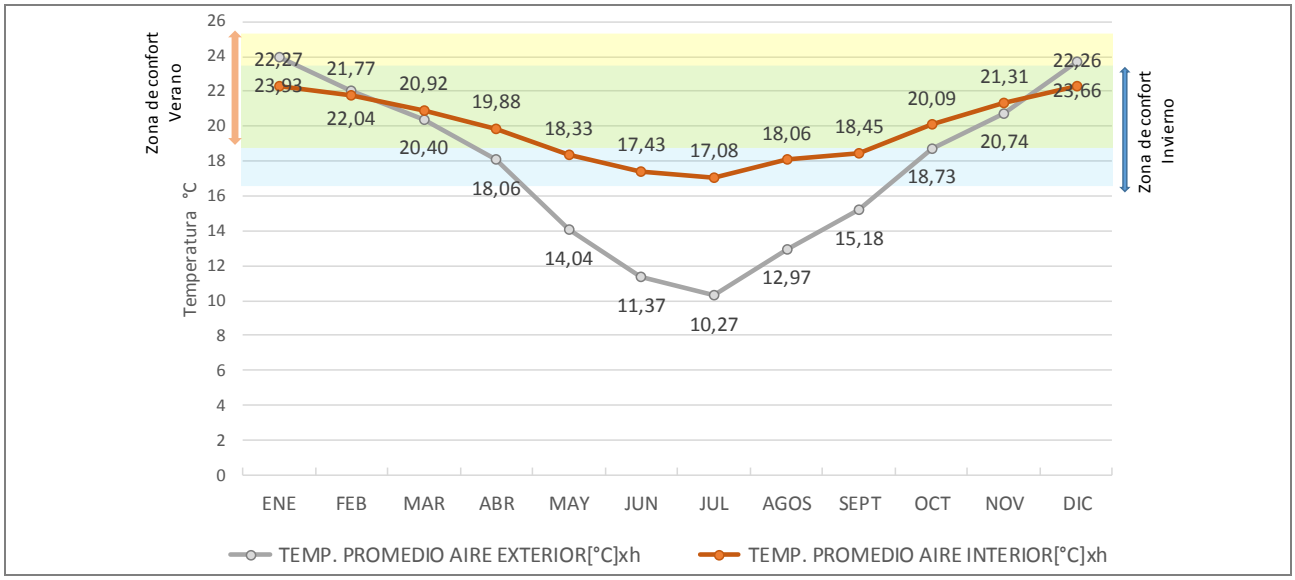

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,9 | 2,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,2** | **5,6** |
| | **Amortiguamiento:** | 0,147 | 0,128 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **4,8** | **4,3** |
| | **Amortiguamiento:** | 0,284 | 0,326 |

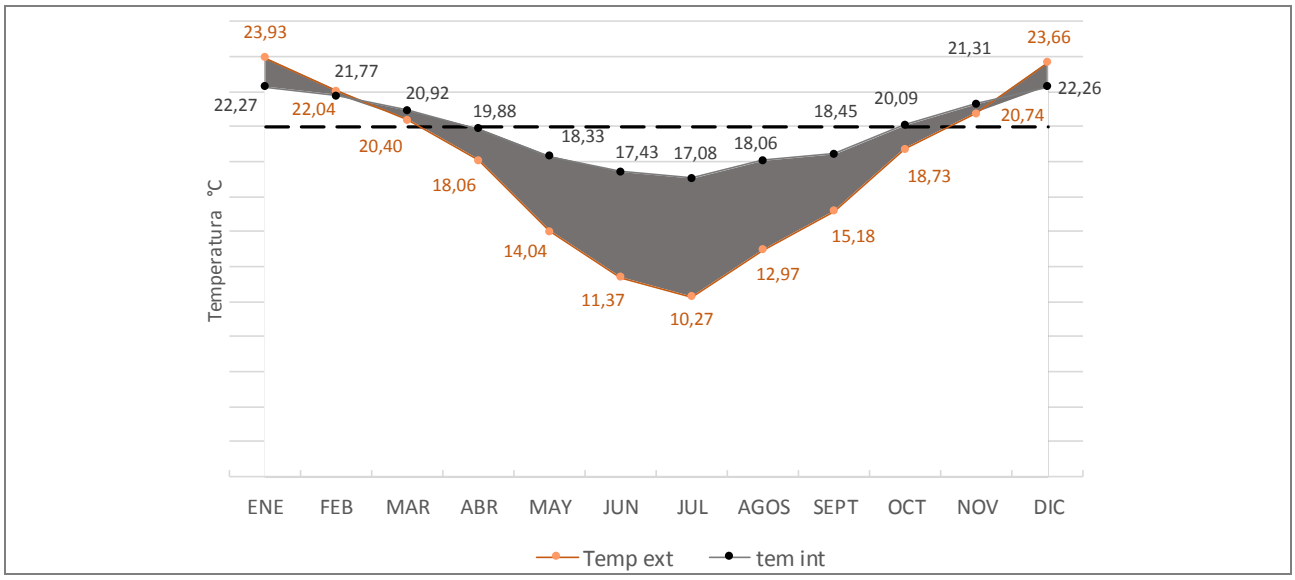
| STL-028 | MU | STEEL FRAME |
|---|---|---|

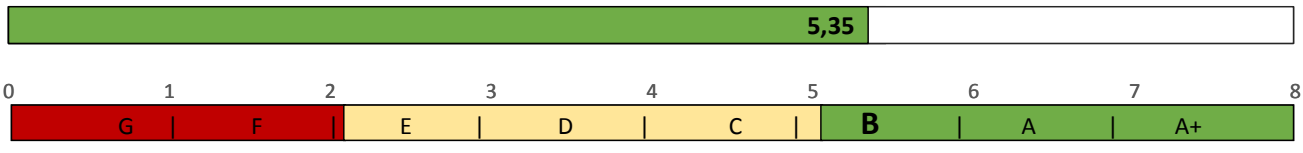
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,23** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,28** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



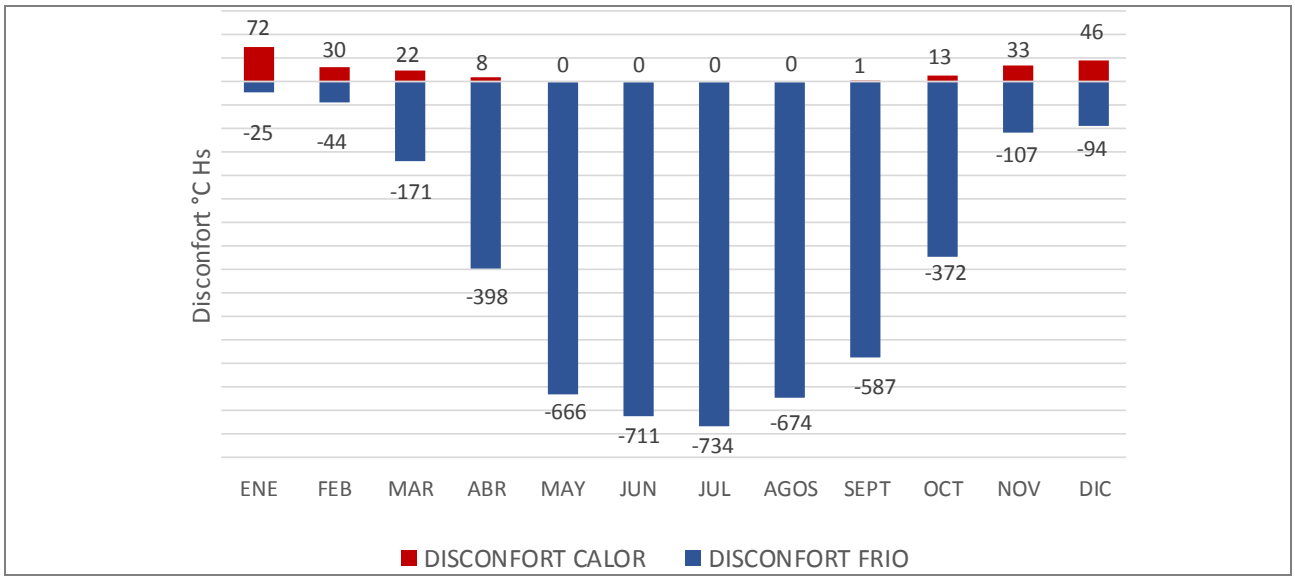




5,35 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-028 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

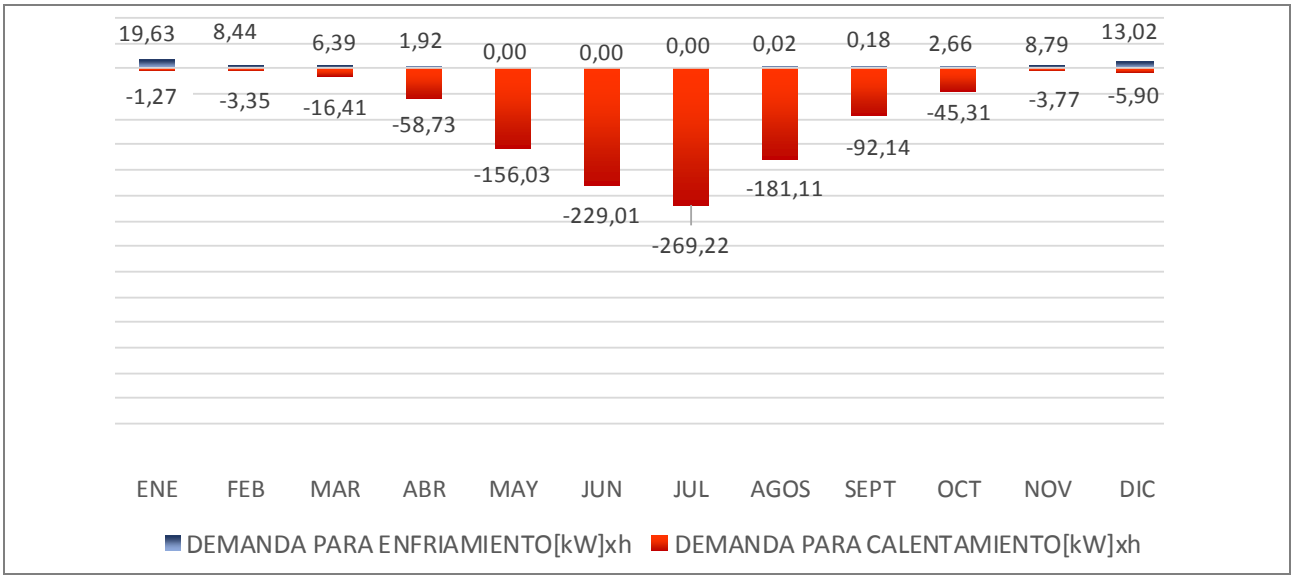
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **225** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.584** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.809** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

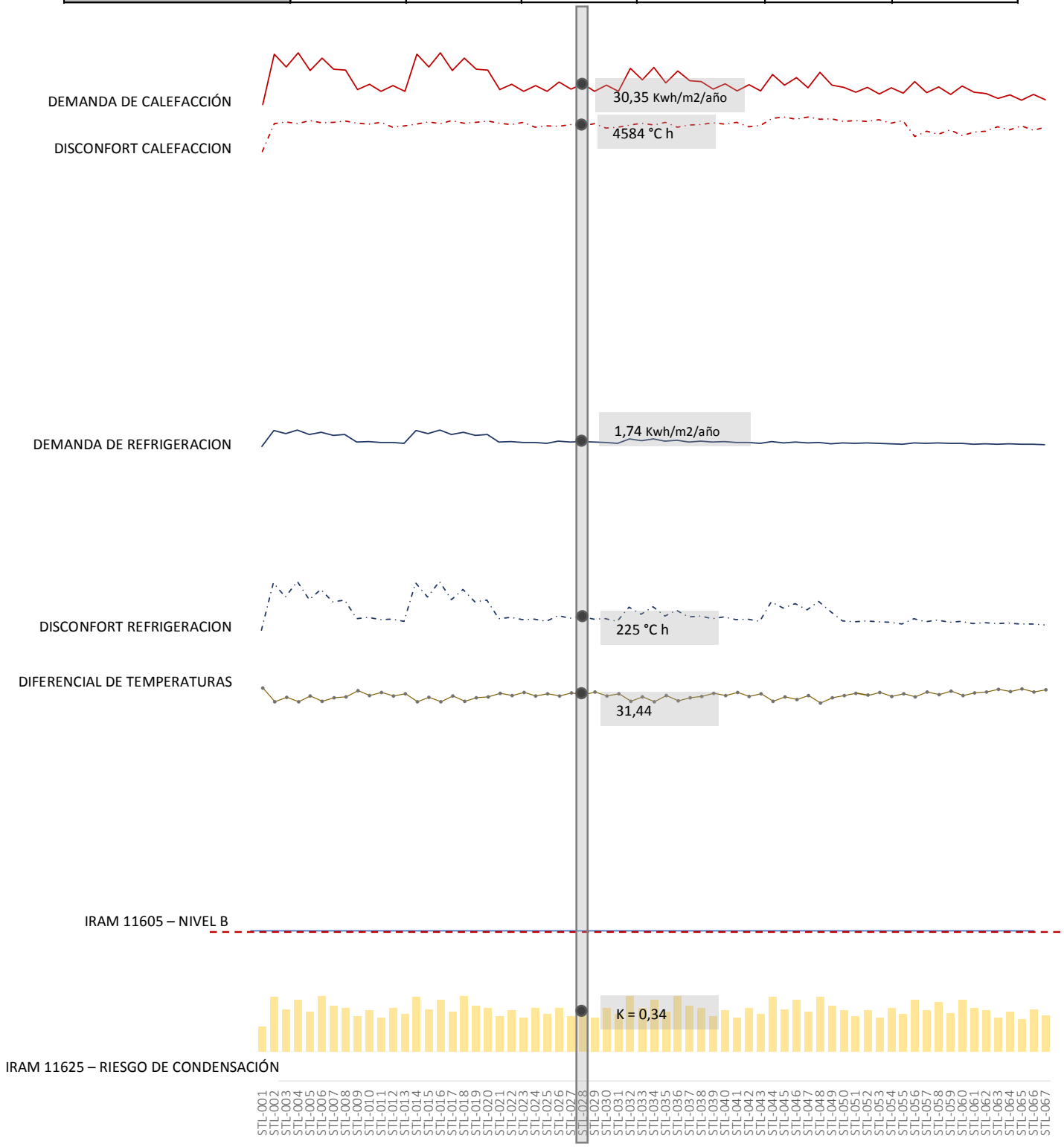



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **61,05** | kWh | 1,74 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.062,26** | kWh | 30,35 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.123,31** | kWh | **32,09** | kWh/m2/año |

| STL-028 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 039 | N° 042 | N° 082 | N° 138 | N° 139 | N° 117 |



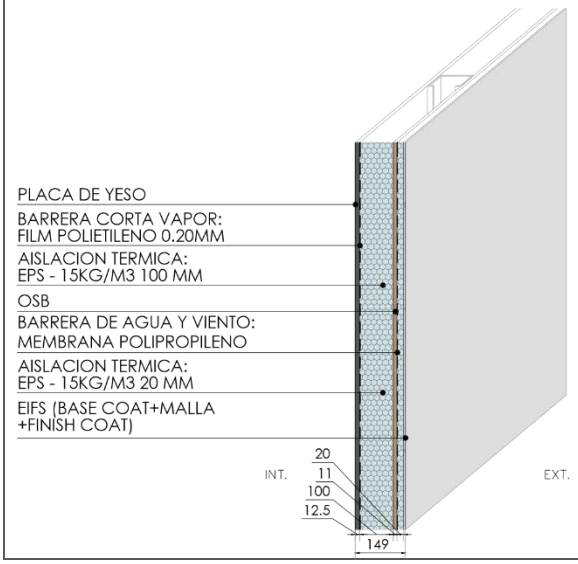

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,34 | | 31,44 | 30,35 | 1,74 | 4584 | 225 |
| INC. FAMILIA | 96,28% | 0% | 100,39% | 95,25% | 69,49% | 99,78% | 79,94% |
| INC. MUNDIAL | 28,59% | 0% | 102,03% | 73,80% | 28,99% | 102,74% | 44,02% |

| STL-029 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG , HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

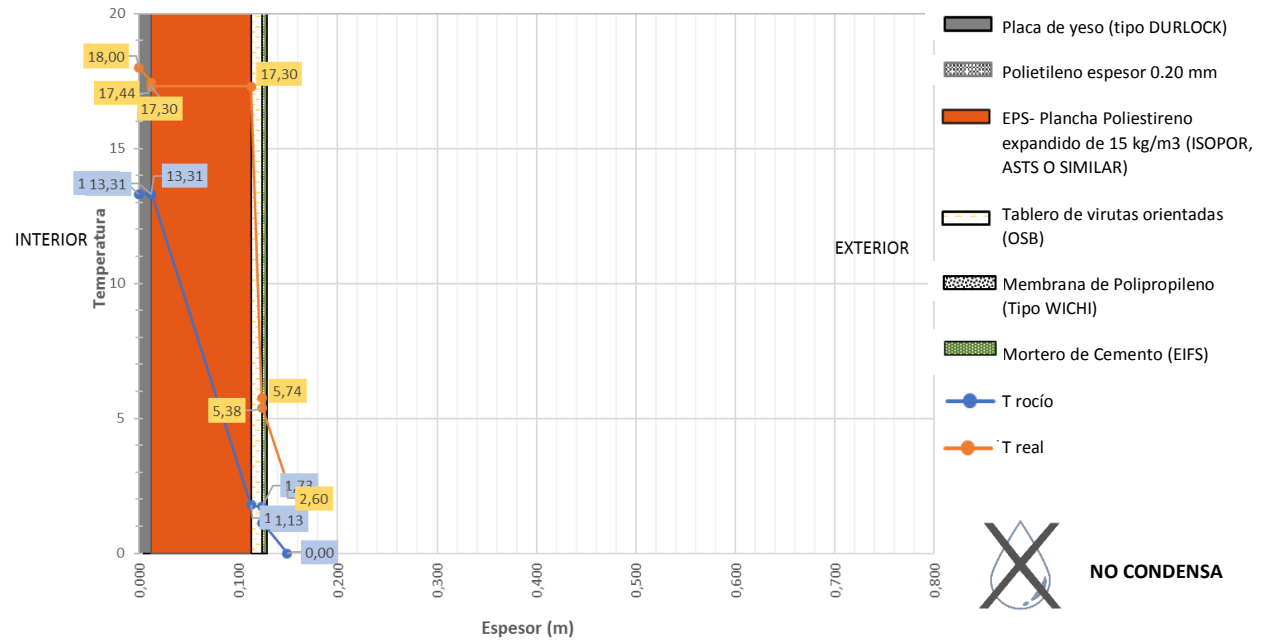
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,28 | 0,28 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



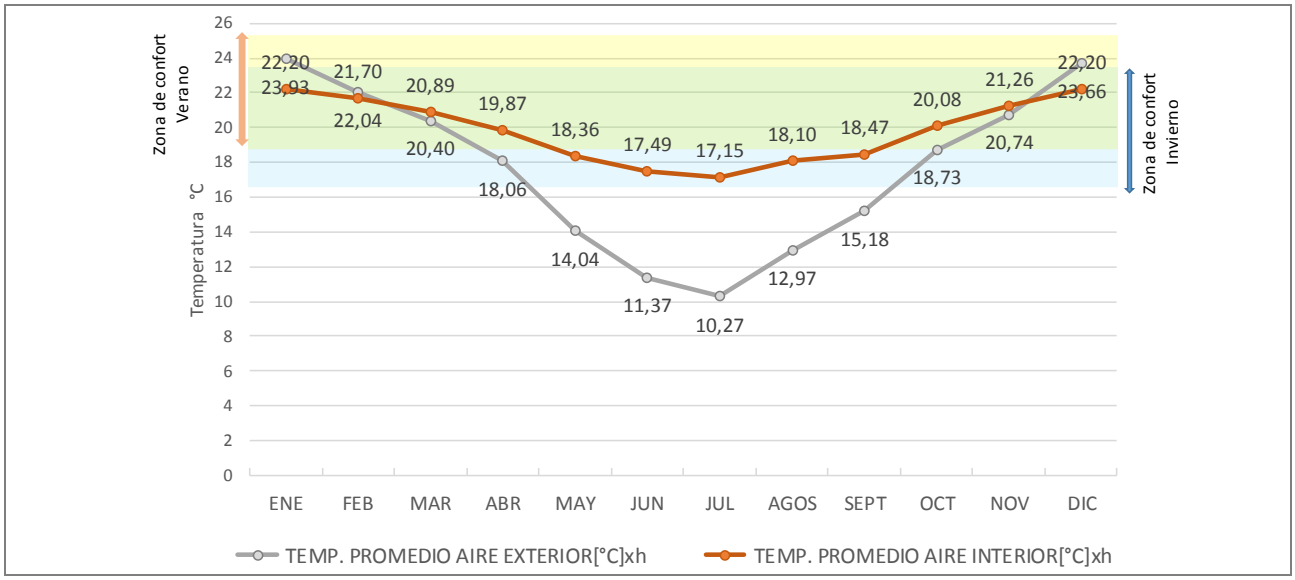

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,5 | 1,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,8** | **6,2** |
| | **Amortiguamiento:** | 0,117 | 0,100 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,4** | **4,7** |
| | **Amortiguamiento:** | 0,243 | 0,294 |

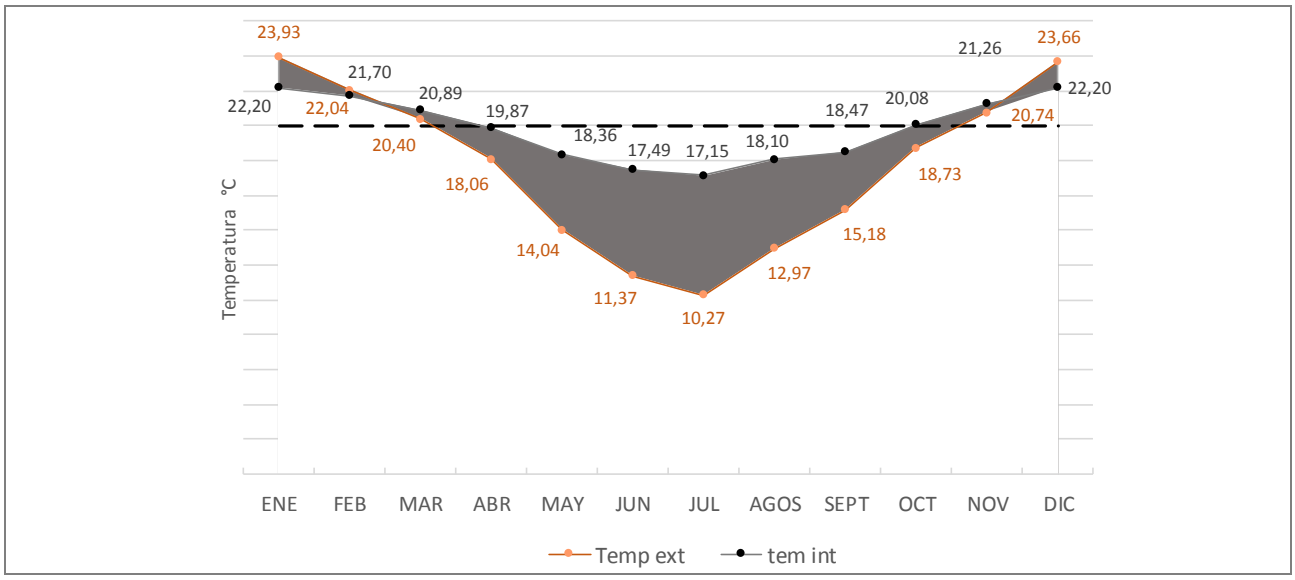
| STL-029 | MU | STEEL FRAME |
|---|---|---|

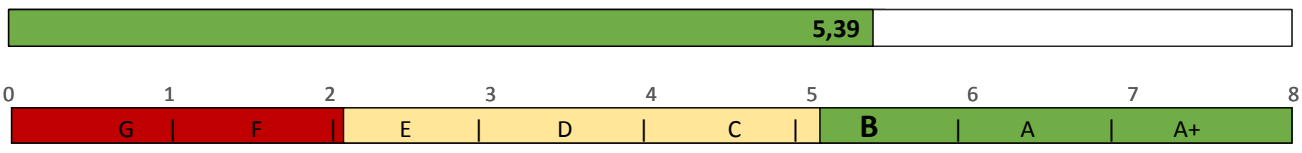
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,03** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **14,50** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



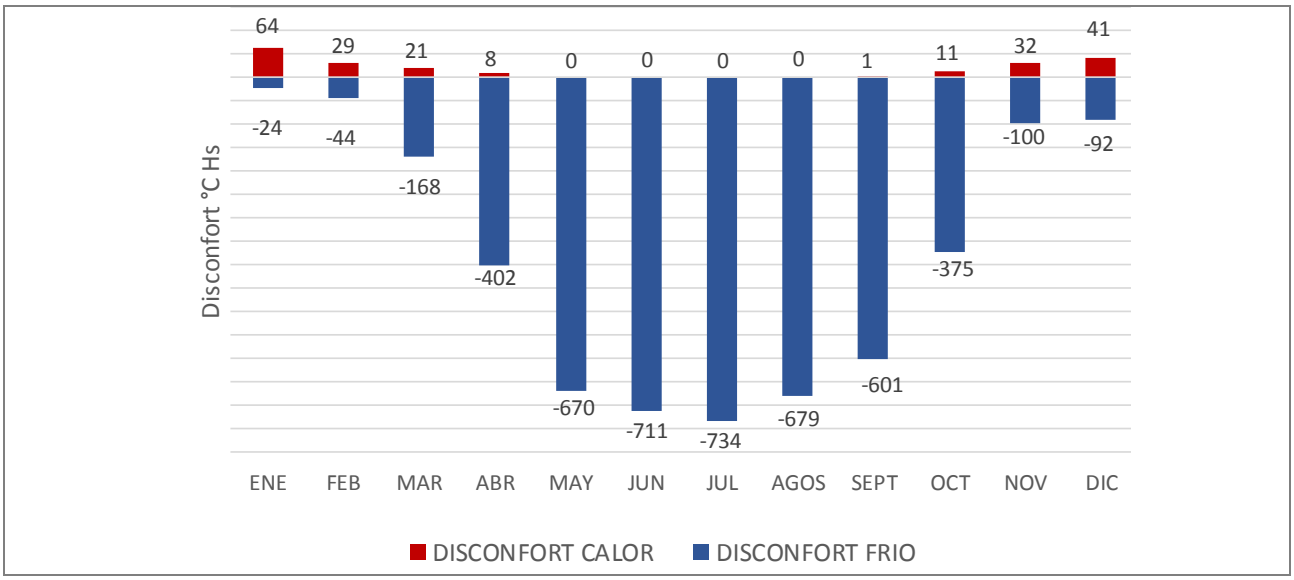




5,39 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-029 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

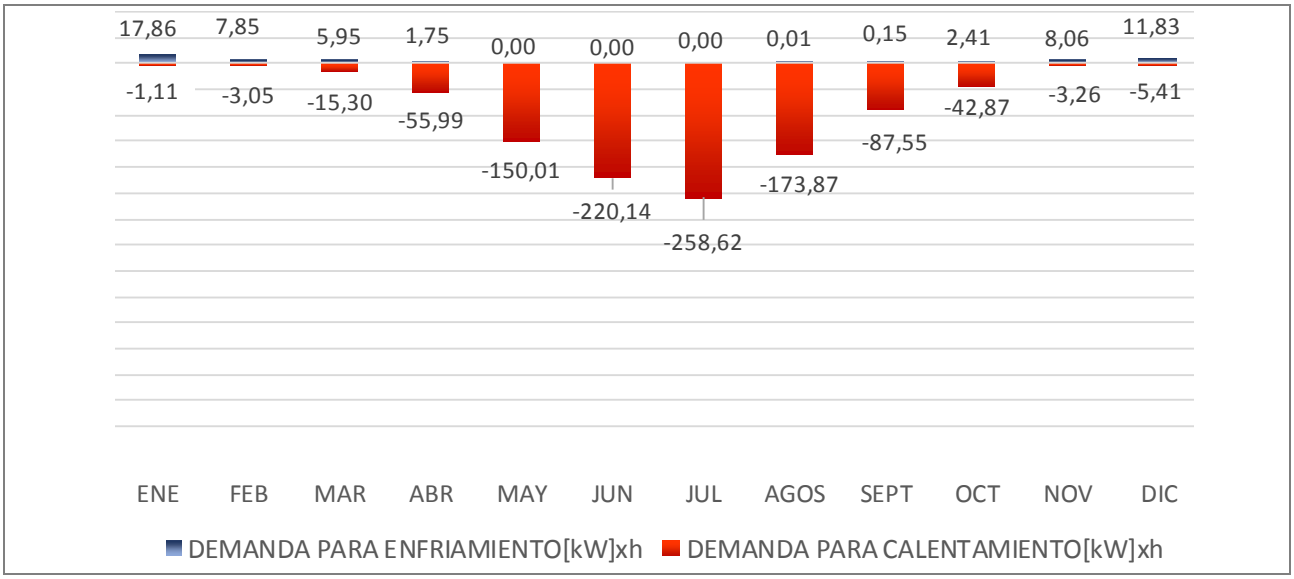
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **207** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.600** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.807** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

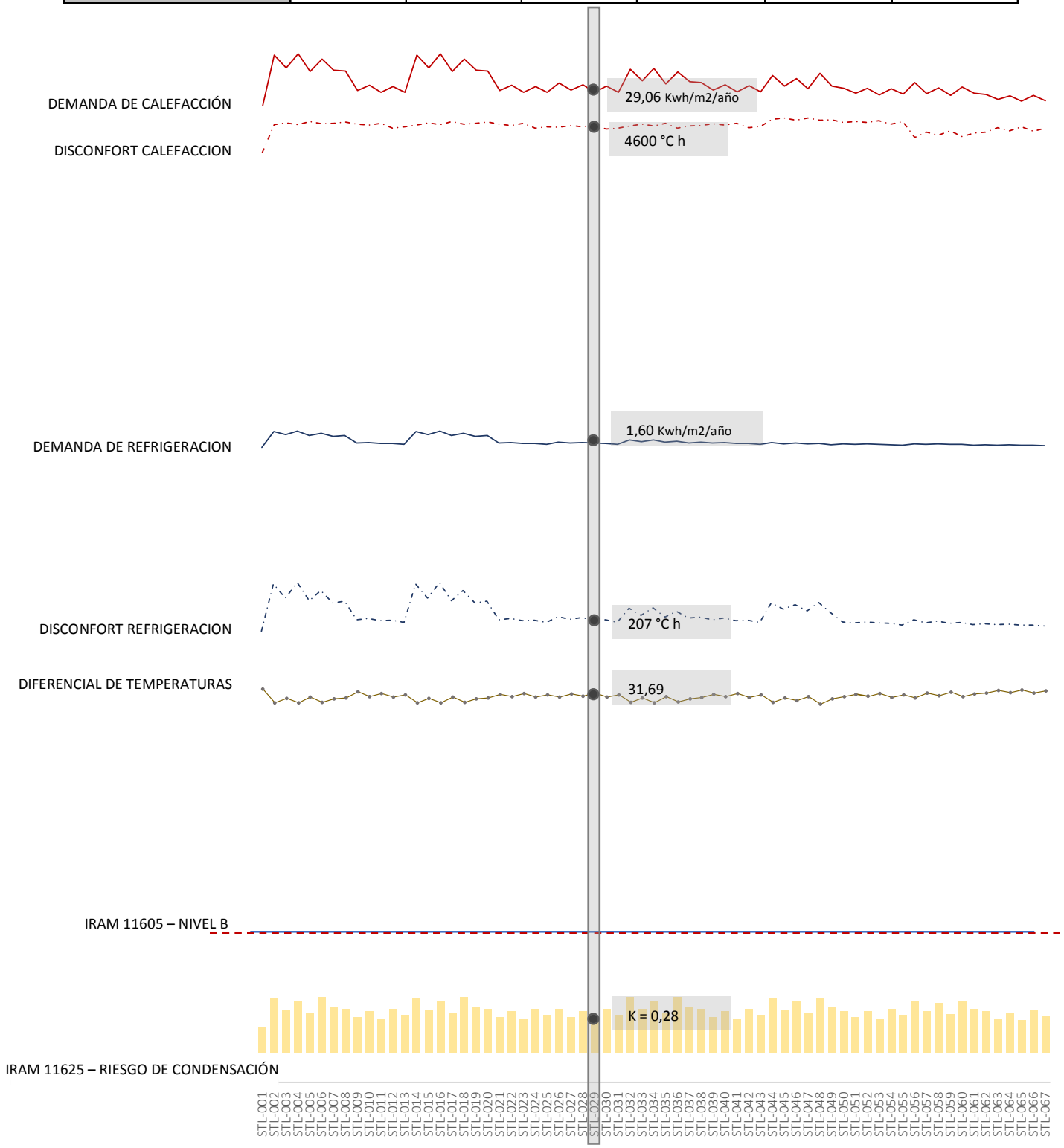



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **55,86** | kWh | 1,60 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.017,19** | kWh | 29,06 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.073,05** | kWh | **30,66** | kWh/m2/año |

| STL-029 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 009 | N° 021 | N° 031 | N° 124 | N° 156 | N° 104 |



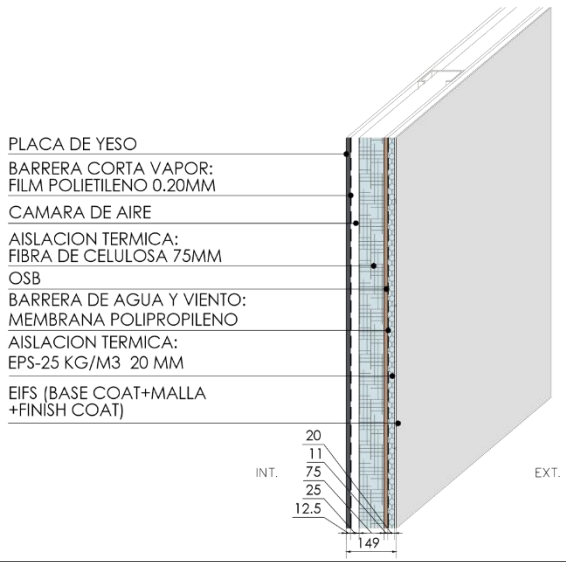

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,28 | 0% | 31,69 | 29,06 | 1,6 | 4600 | 207 |
| INC. FAMILIA | 79,29% | 0% | 101,18% | 91,20% | 63,90% | 100,13% | 73,54% |
| INC. MUNDIAL | 23,54% | 0% | 102,84% | 70,66% | 26,66% | 103,10% | 40,50% |

| STL-030 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

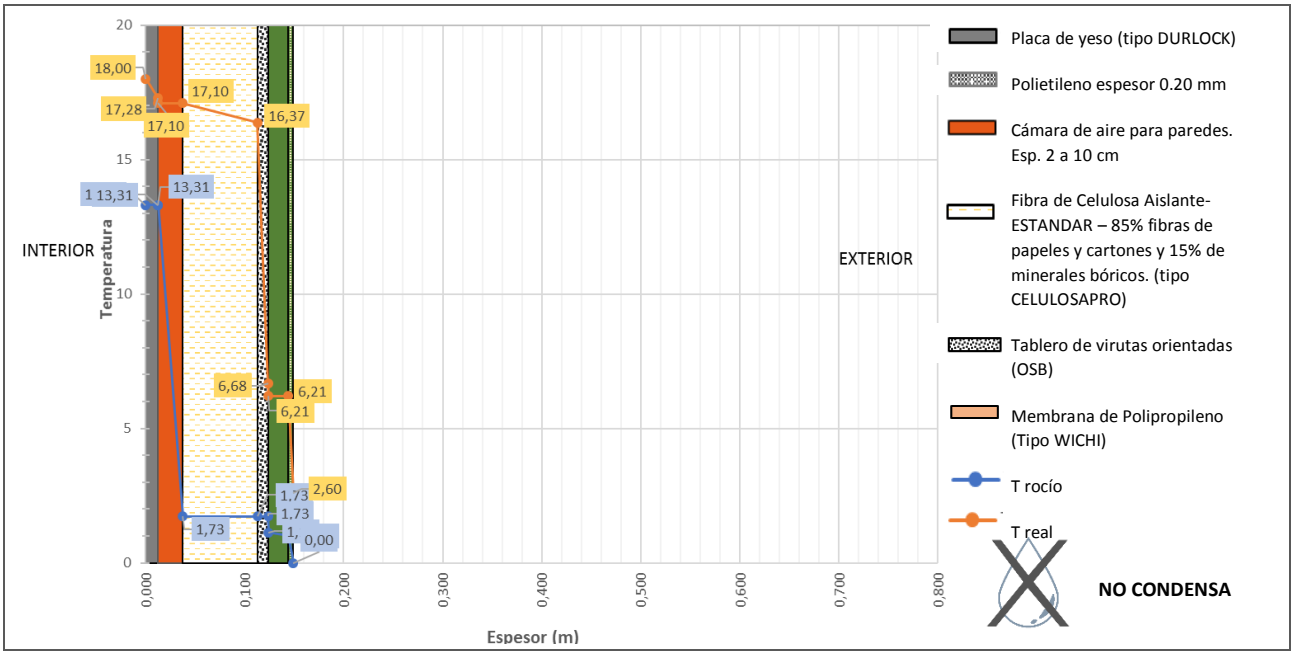
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



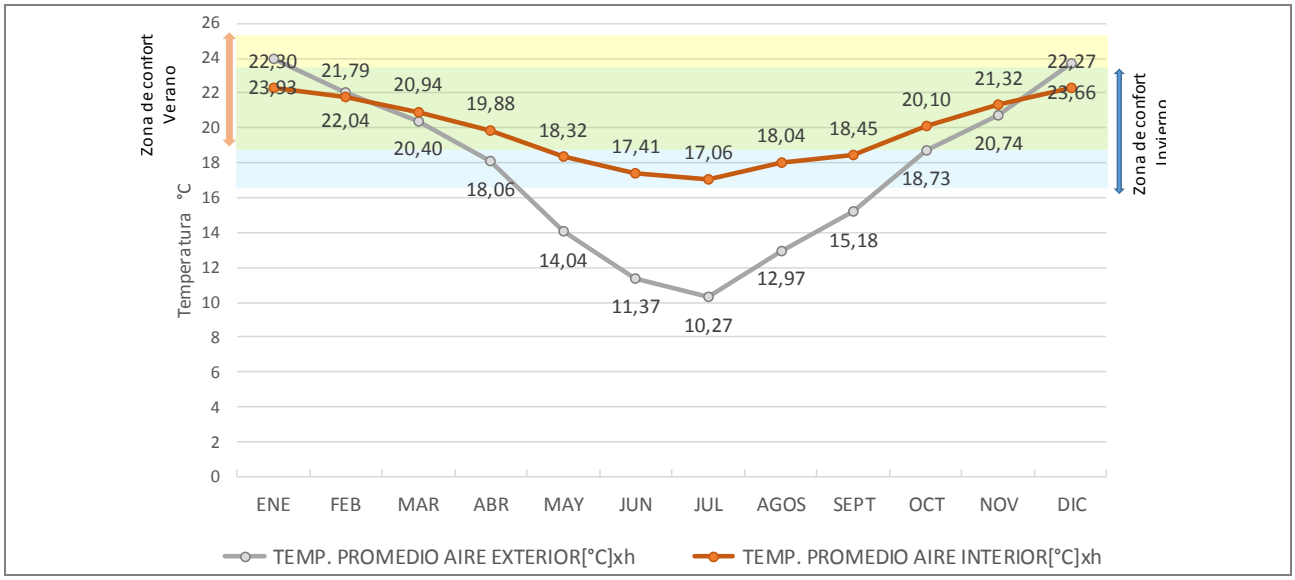

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,2 | 3,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,4** | **6,7** |
| | **Amortiguamiento:** | 0,093 | 0,084 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,3** | **5,1** |
| | **Amortiguamiento:** | 0,249 | 0,261 |

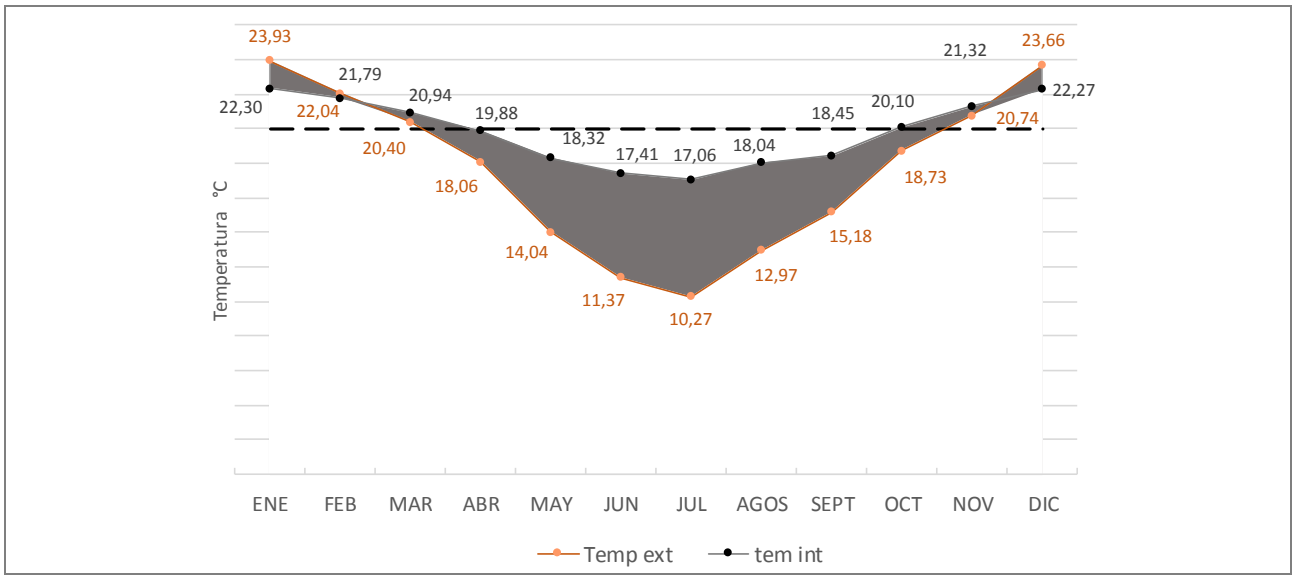
| STL-030 | MU | STEEL FRAME |
|---|---|---|

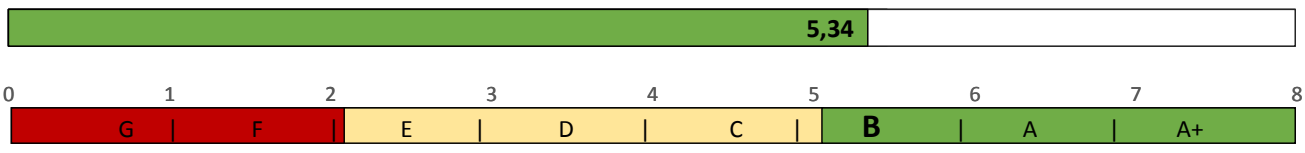
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,04** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,38** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



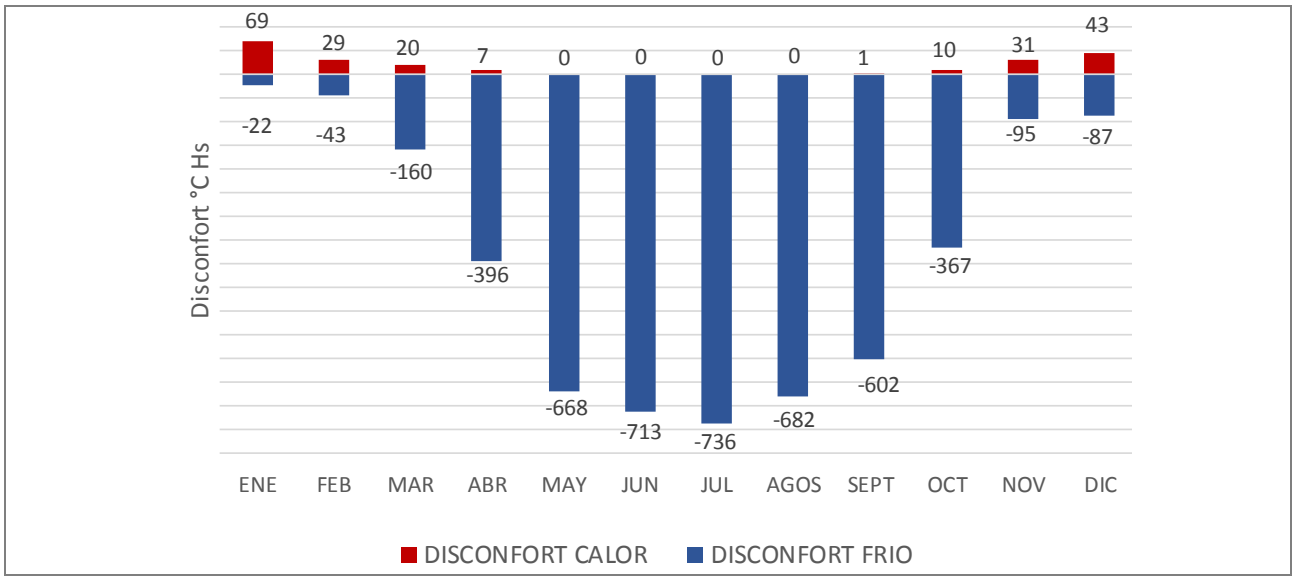




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-030 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

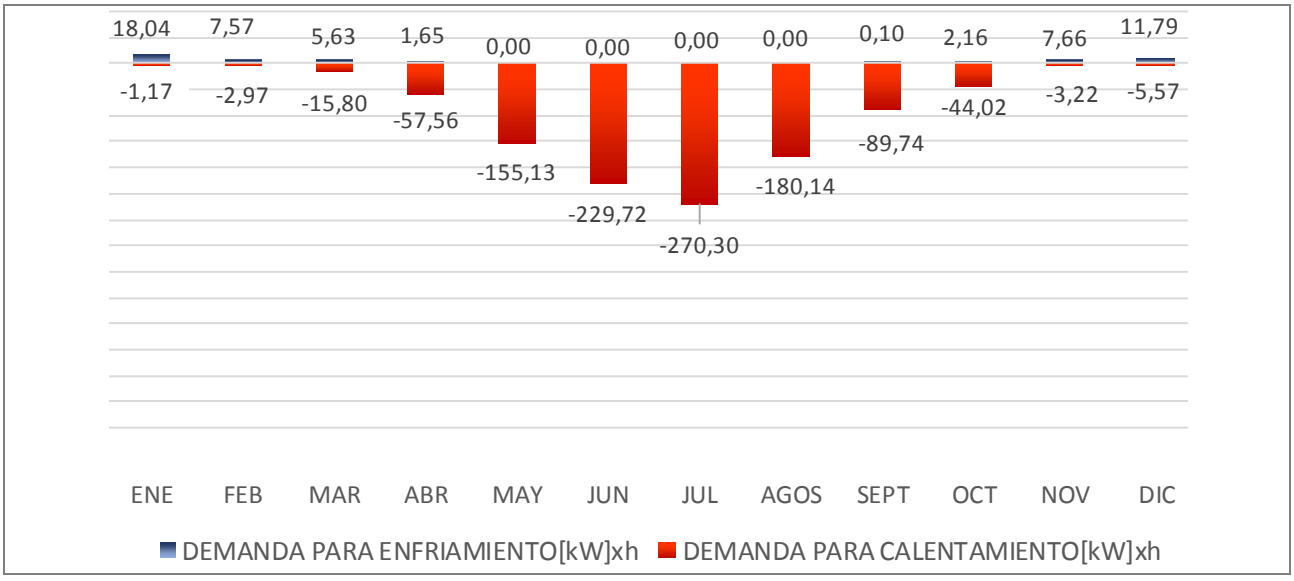
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **210** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.572** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.782** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

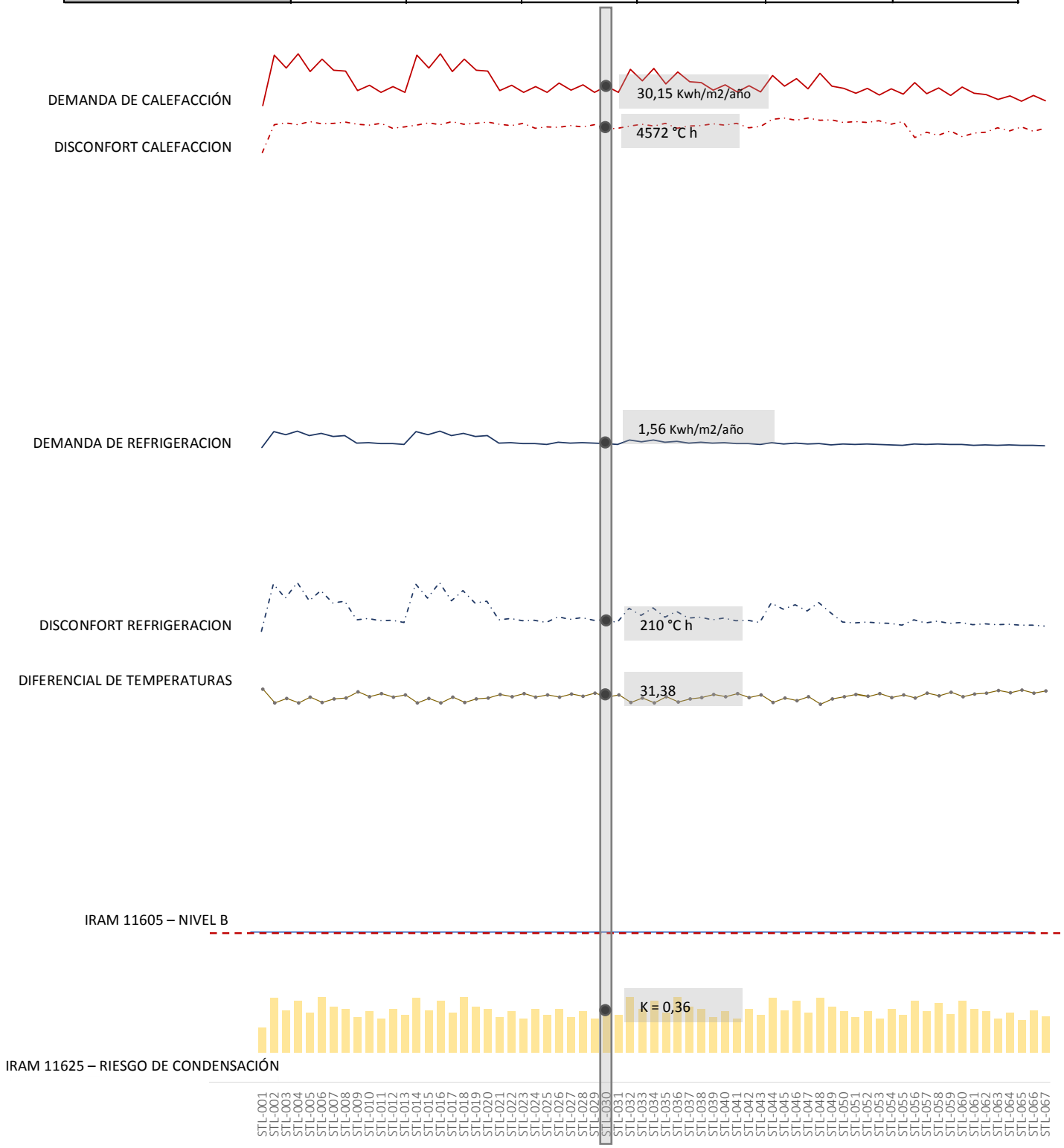



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **54,60** | kWh | 1,56 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.055,35** | kWh | 30,15 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.109,94** | kWh | **31,71** | kWh/m2/año |

| STL-030 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 055 | N° 054 | N° 071 | N° 110 | N° 124 | N° 110 |



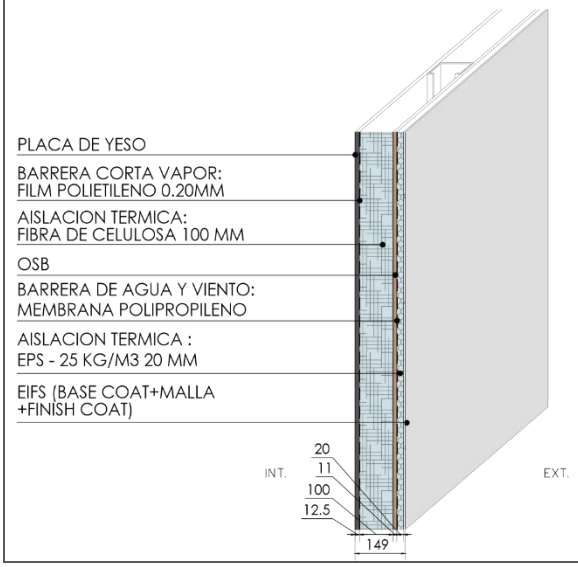

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,36 | | 31,38 | 30,15 | 1,56 | 4572 | 210 |
| INC. FAMILIA | 101,94% | 0% | 100,19% | 94,62% | 62,30% | 99,52% | 74,61% |
| INC. MUNDIAL | 30,27% | 0% | 101,84% | 73,31% | 25,99% | 102,48% | 41,08% |

| STL-031 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE EIFS E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR

## INDICE DE TRANSMITANCIA TERMICA "K"

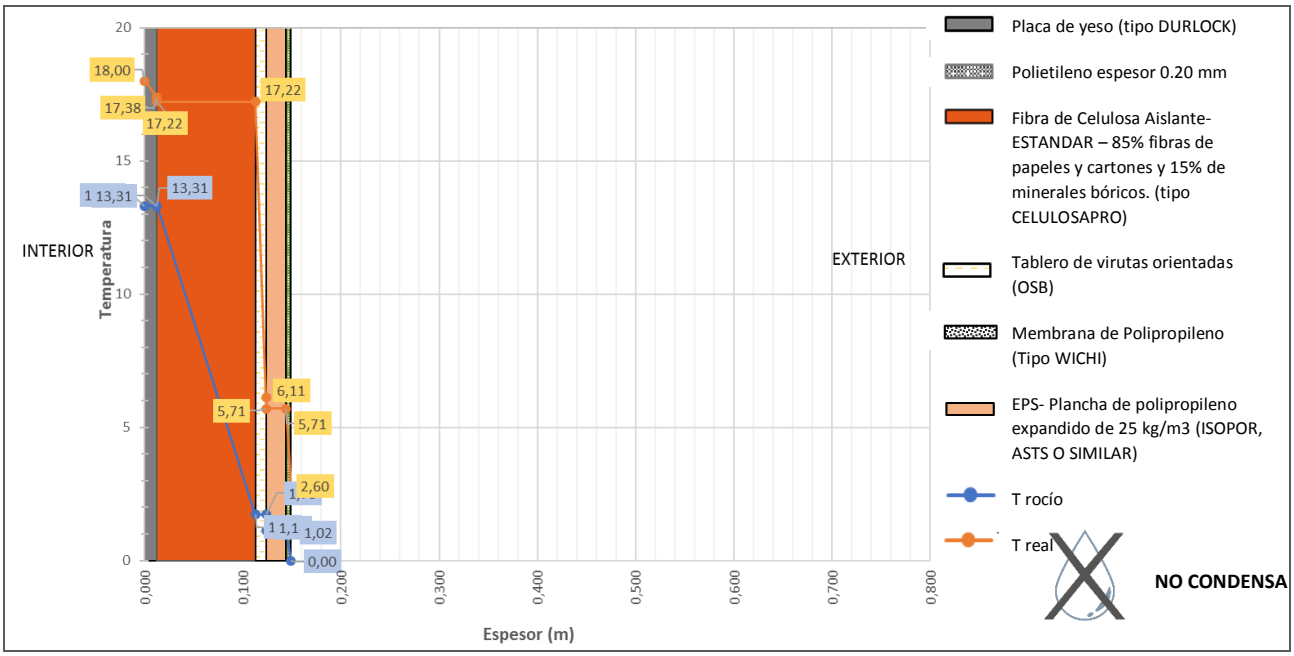
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,31 | 0,31 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



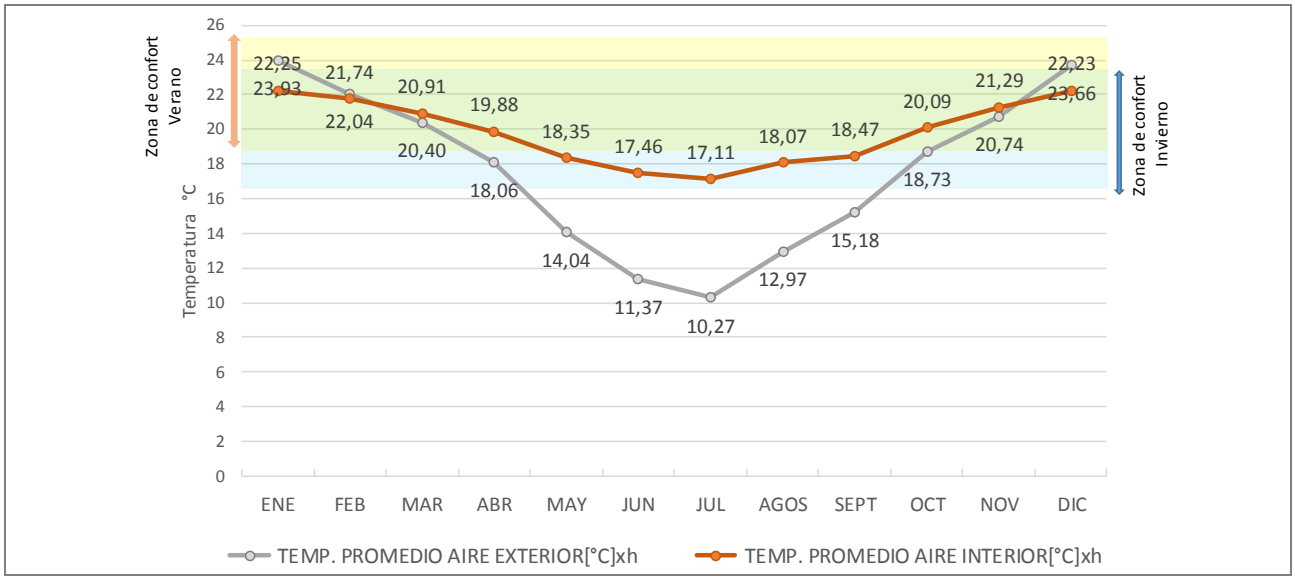

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 1,5 | 1,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,8** | **6,2** |
| | **Amortiguamiento:** | 0,117 | 0,100 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,4** | **4,7** |
| | **Amortiguamiento:** | 0,243 | 0,294 |

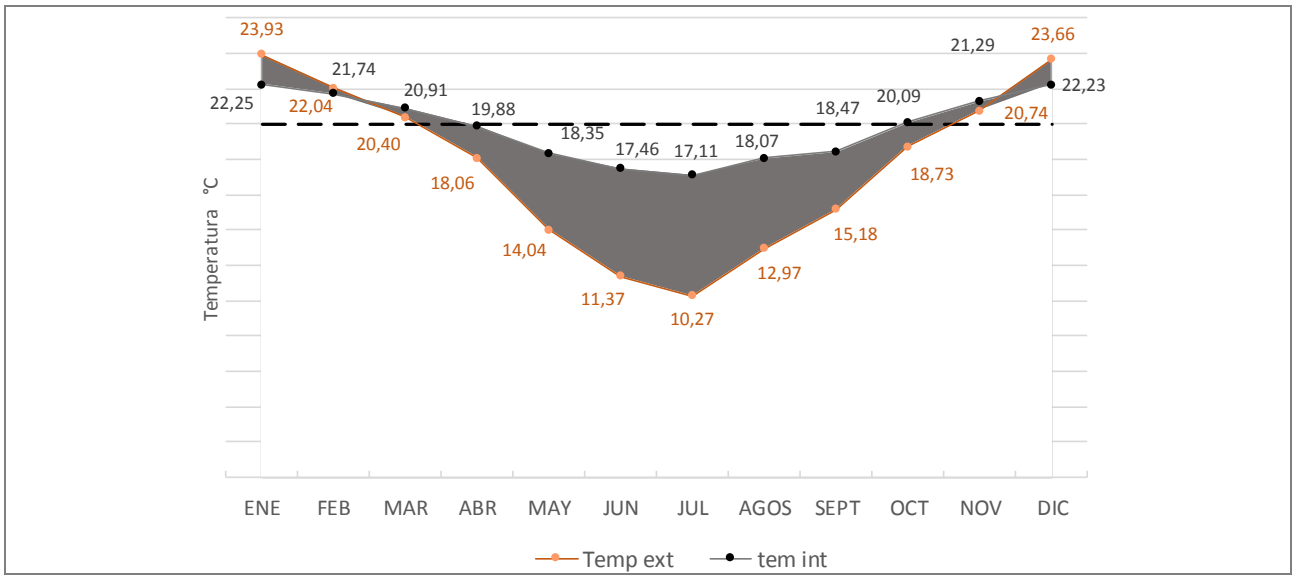
| STL-031 | MU | STEEL FRAME |
|---|---|---|

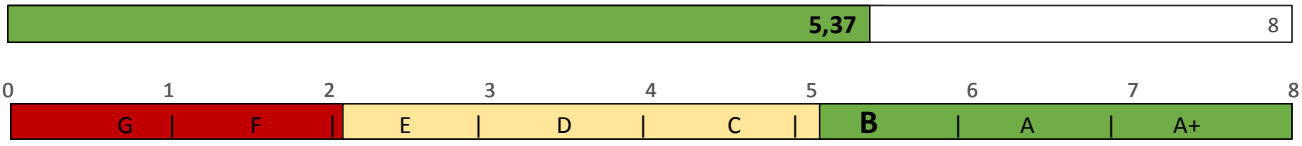
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,83** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,59** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



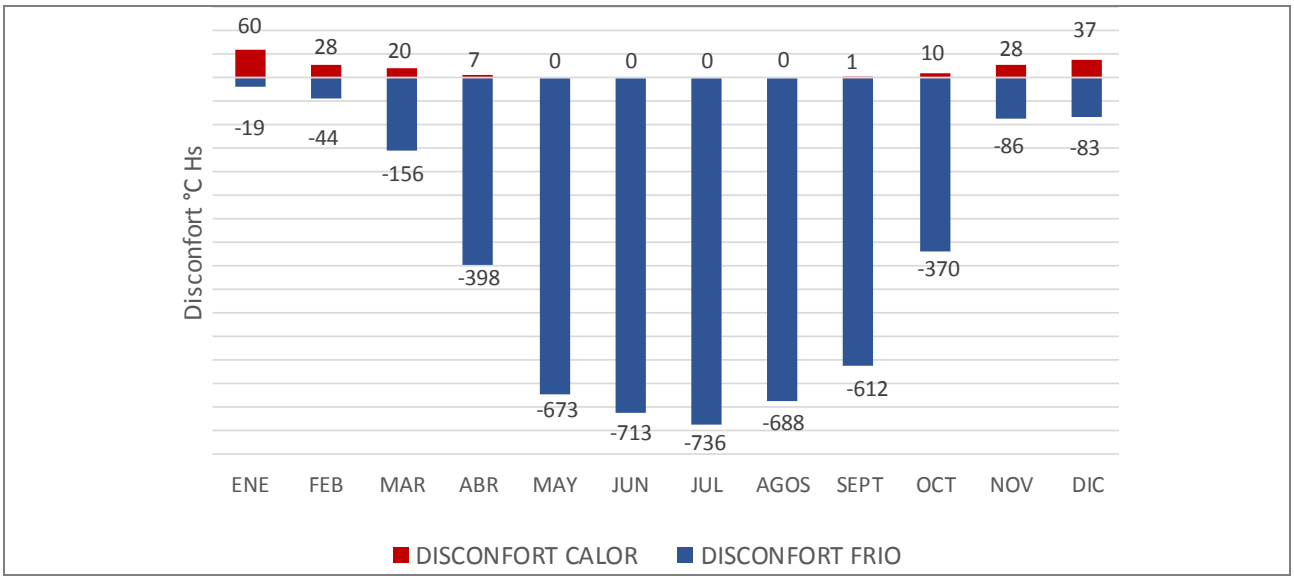




5,37 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-031 | MU | STEEL FRAME |
|---|---|---|

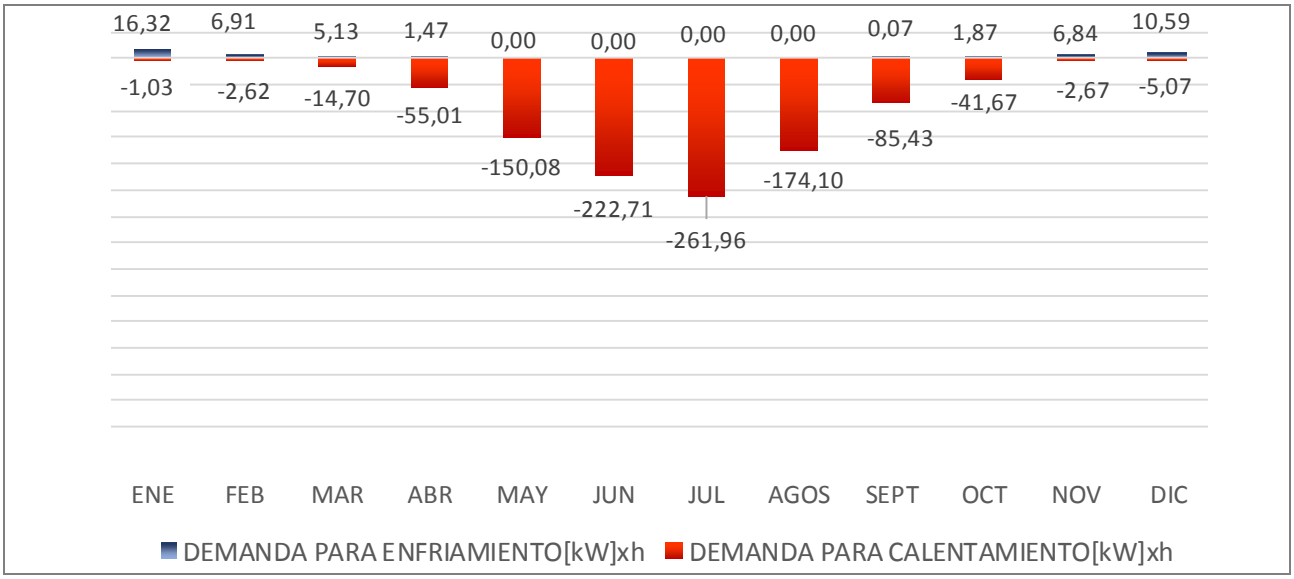
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **191** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.576** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.766** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

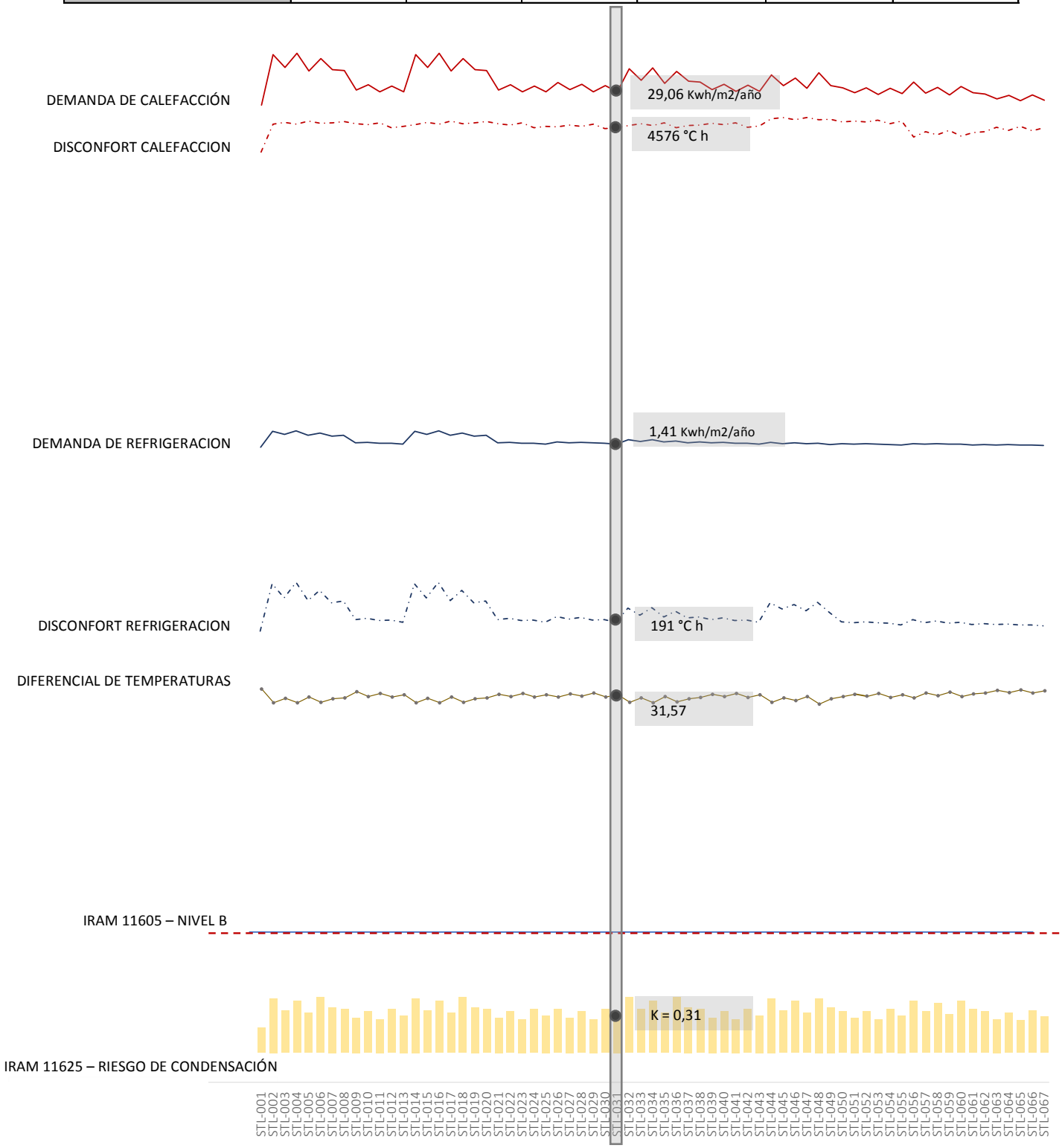



| | CANT | | | IPE |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **49,20** | kWh | 1,41 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.017,06** | kWh | 29,06 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.066,25** | kWh | **30,46** | kWh/m2/año |

| STL-031 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 022 | N° 034 | N° 032 | N° 091 | N° 127 | N° 078 |



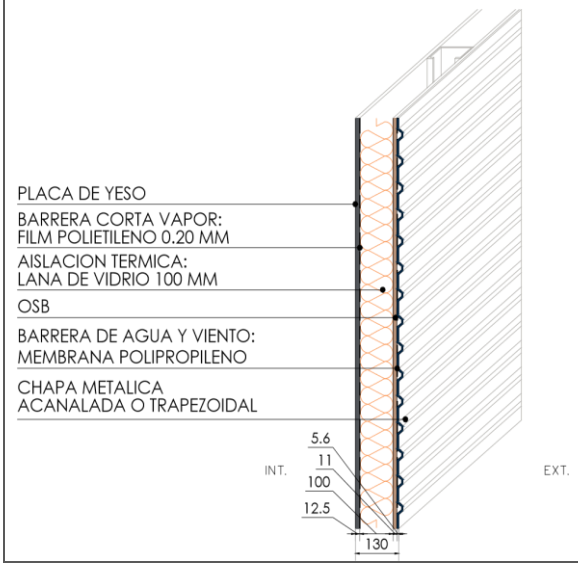

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,31 | 0% | 31,57 | 29,06 | 1,41 | 4576 | 191 |
| INC. FAMILIA | 87,79% | 0% | 100,80% | 91,20% | 56,31% | 99,60% | 67,86% |
| INC. MUNDIAL | 26,06% | 0% | 102,45% | 70,66% | 23,49% | 102,56% | 37,37% |

| STL-032 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 70MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

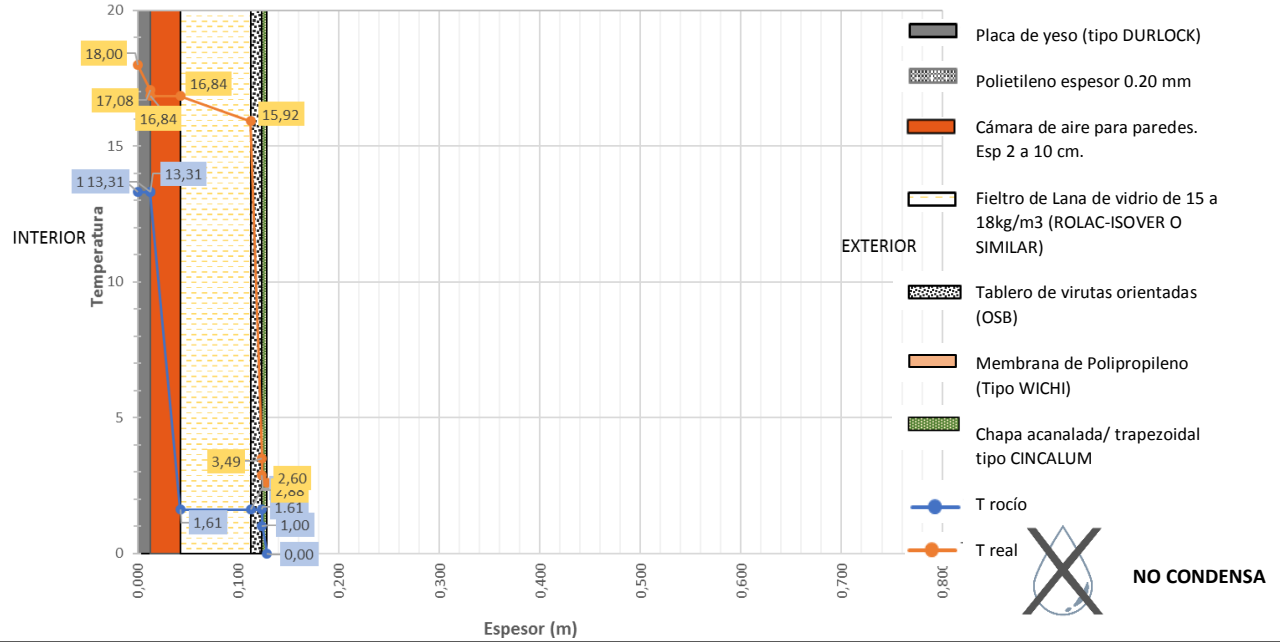
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,46 | 0,46 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



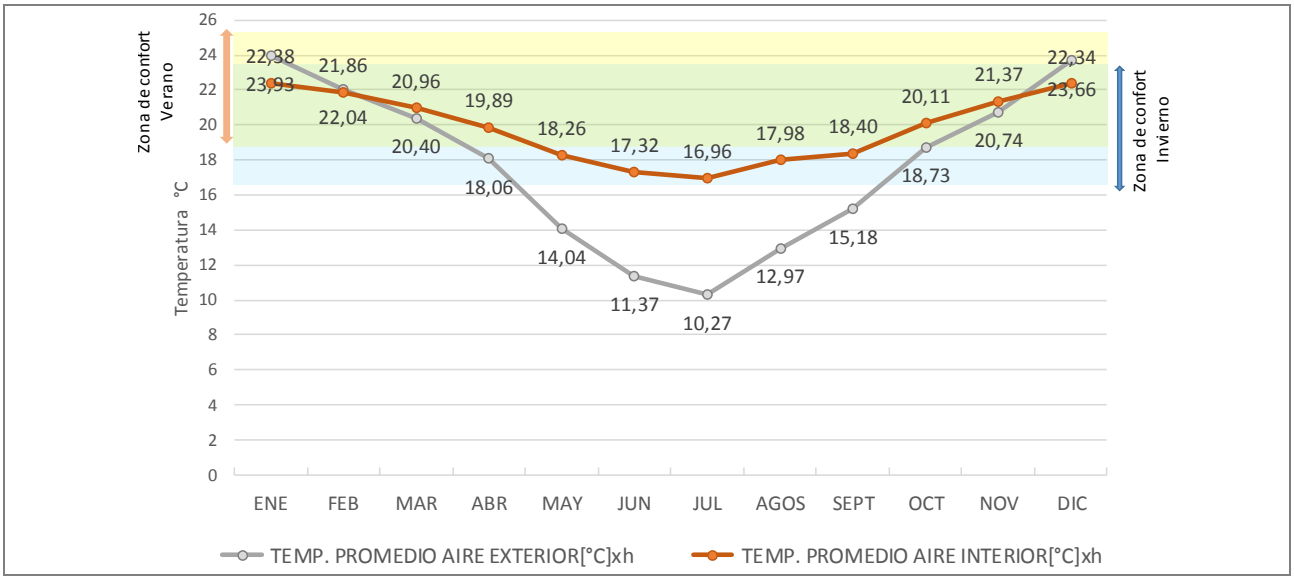

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,5 | 2,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,2** | **4,7** |
| | **Amortiguamiento:** | 0,148 | 0,173 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,1** | **3,4** |
| | **Amortiguamiento:** | 0,260 | 0,413 |

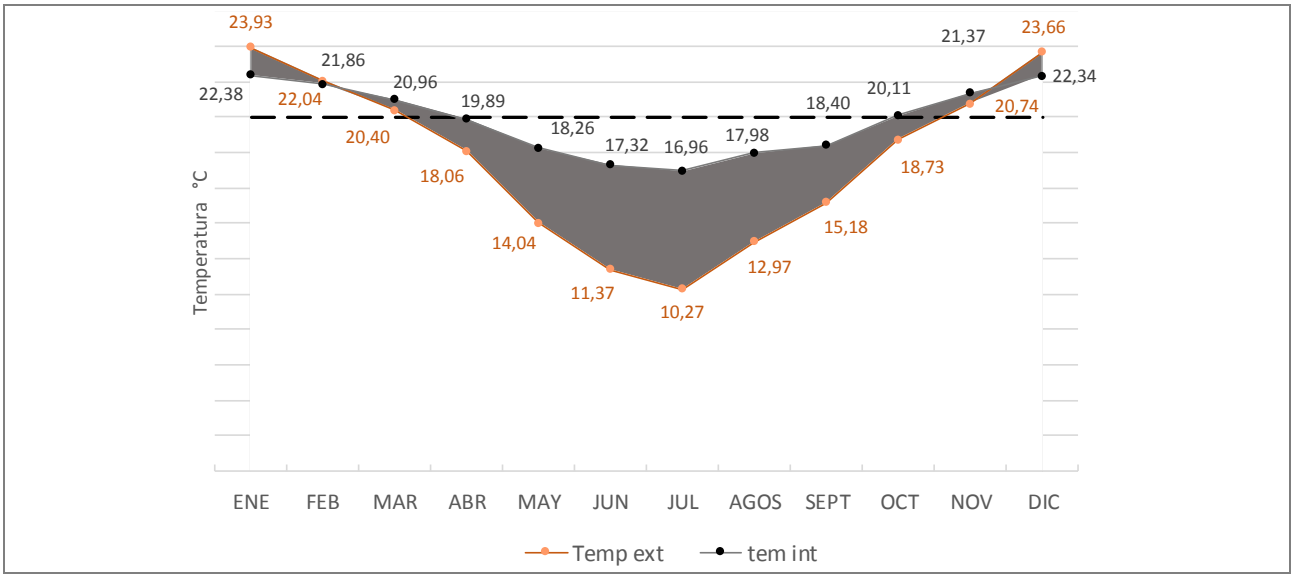
| STL-032 | MU | STEEL FRAME |
|---|---|---|

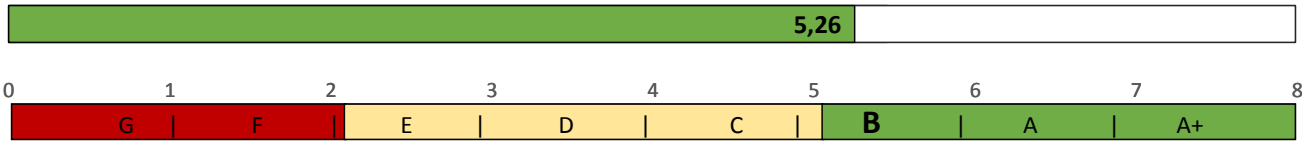
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,70** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **13,80** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



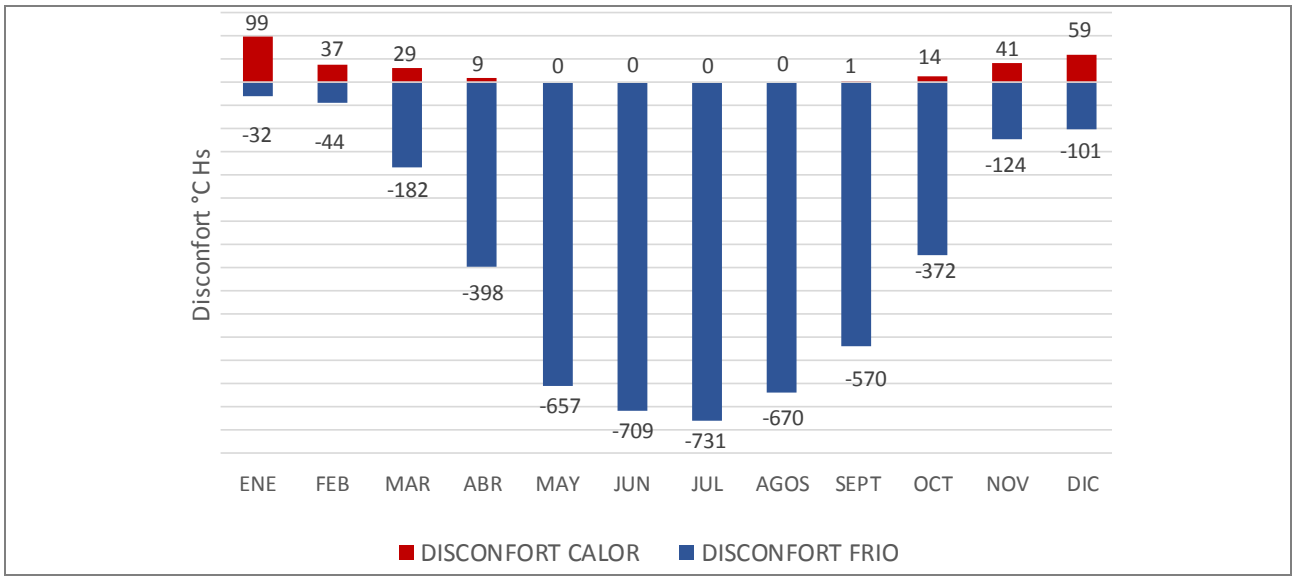




5,26 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-032 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

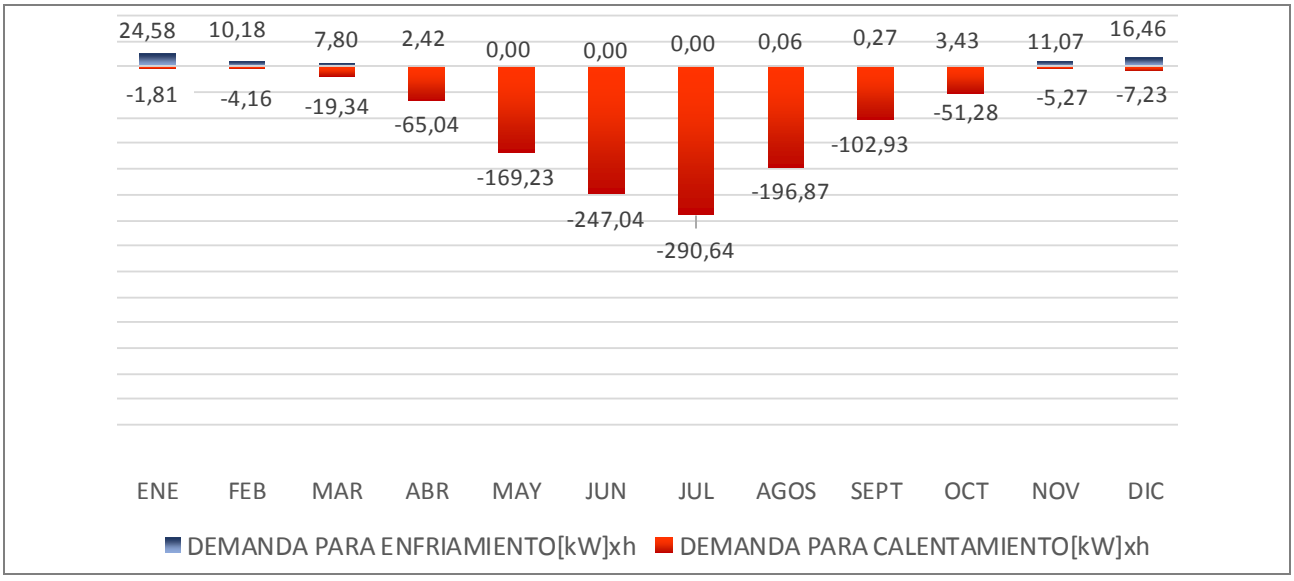
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **290** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.591** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.881** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

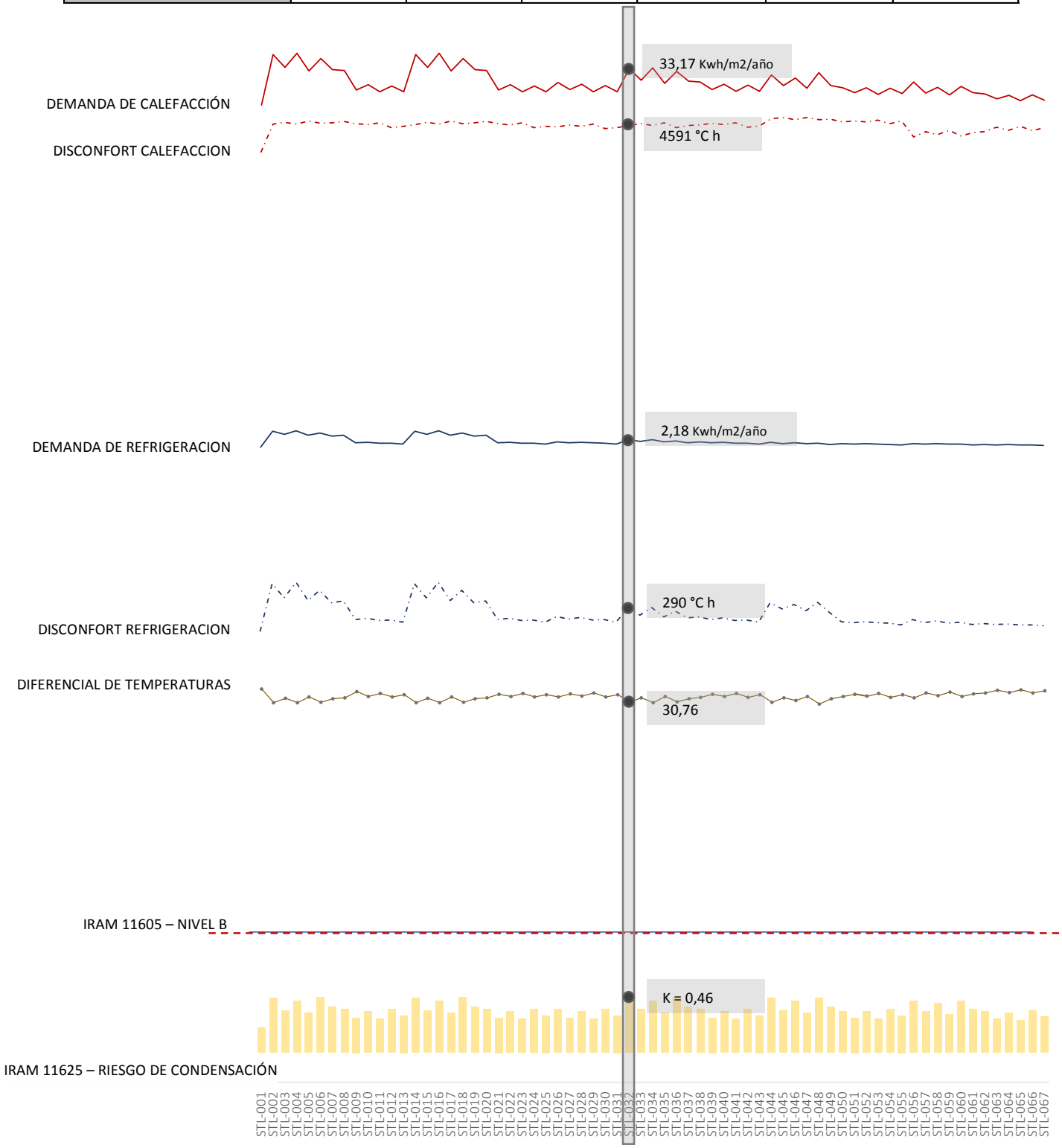



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **76,26** | kWh | 2,18 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.160,84** | kWh | 33,17 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.237,10** | kWh | **35,35** | kWh/m2/año |

| STL-032 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 103 | N° 119 | N° 133 | N° 152 | N° 146 | N° 141 |



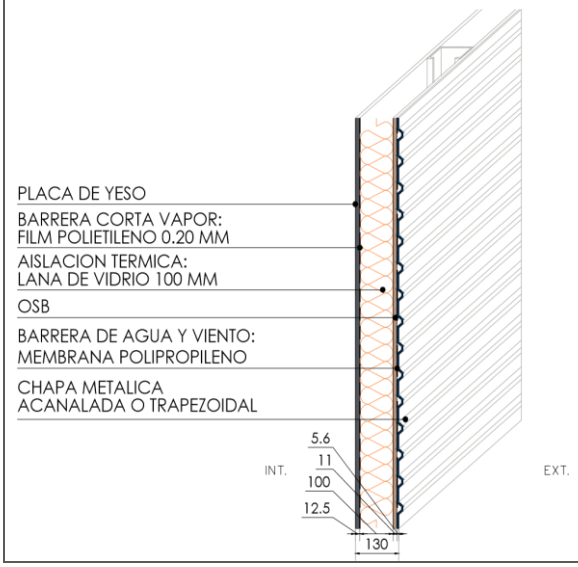

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,46 | 0% | 30,93 | 33,17 | 2,18 | 4591 | 290 |
| INC. FAMILIA | 130,26% | 0% | 98,76% | 104,10% | 87,06% | 99,93% | 103,03% |
| INC. MUNDIAL | 38,68% | 0% | 100,38% | 80,66% | 36,32% | 102,90% | 56,73% |

| STL-033 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

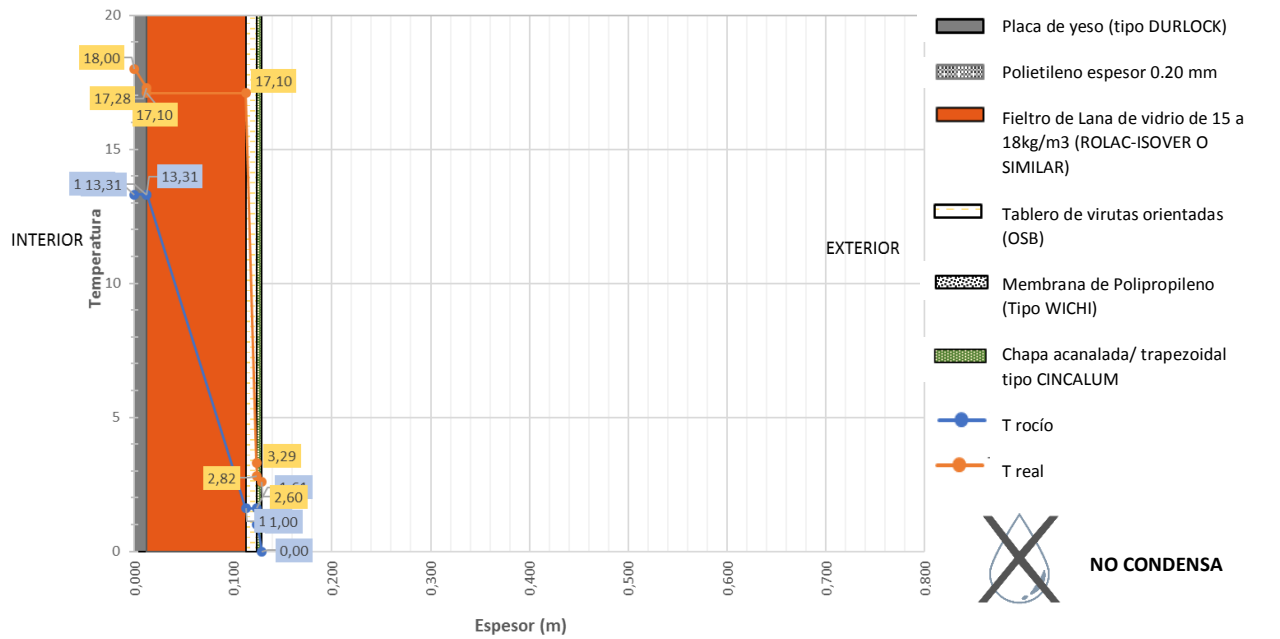
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



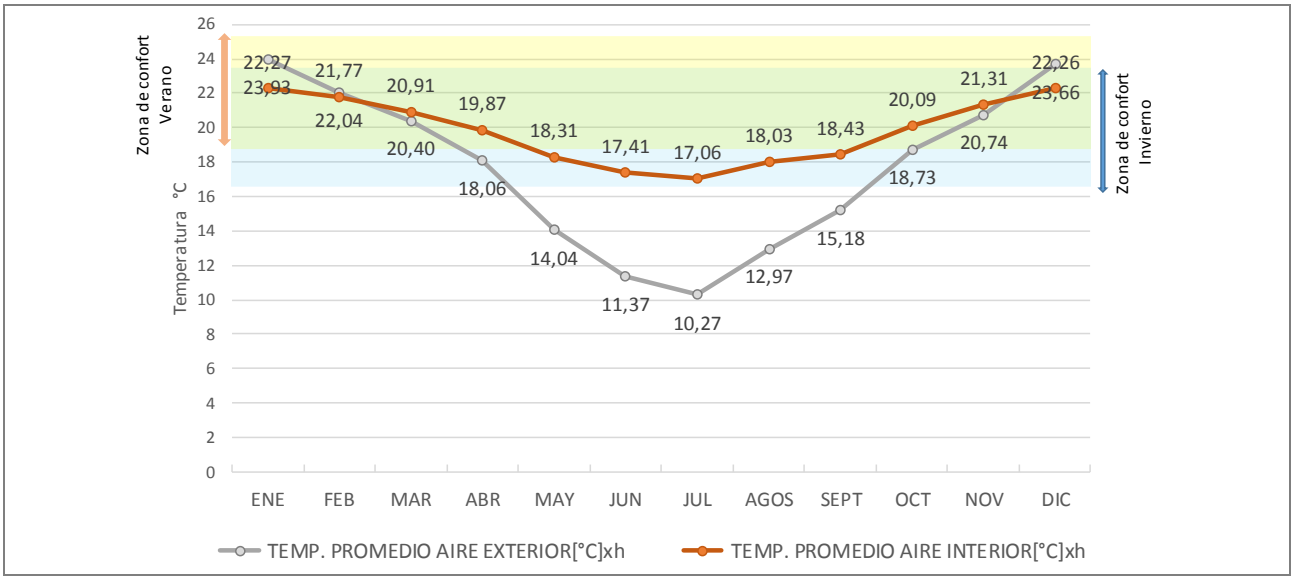

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,7 | 2,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,9** | **5,4** |
| | **Amortiguamiento:** | 0,112 | 0,134 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,8** | **3,8** |
| | **Amortiguamiento:** | 0,217 | 0,366 |

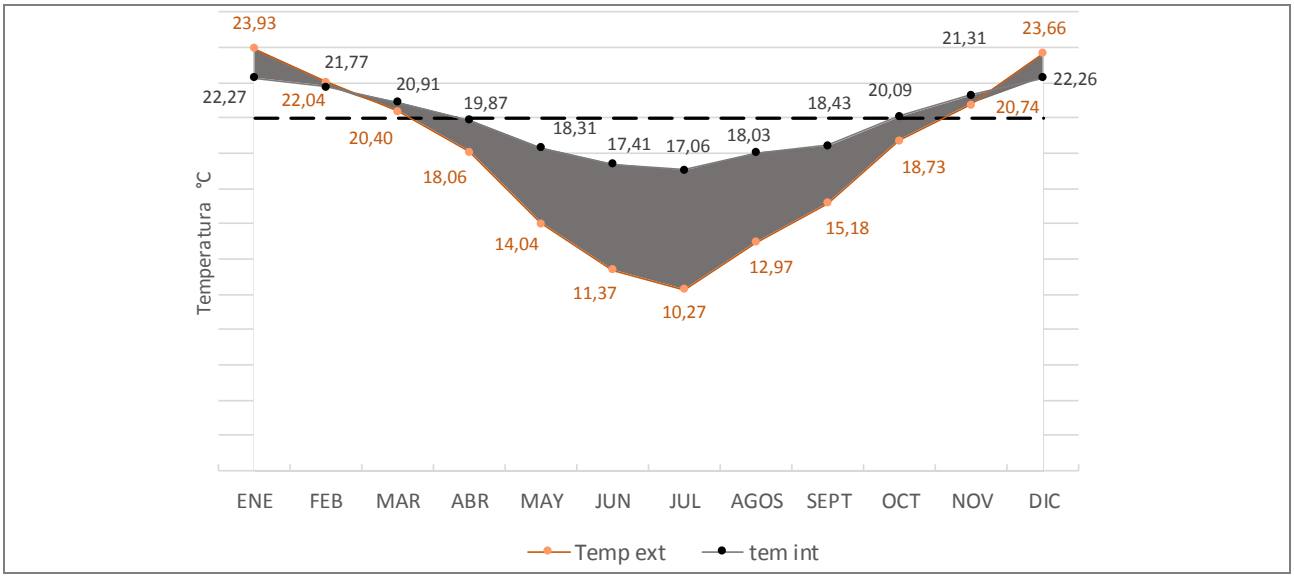
| STL-033 | MU | STEEL FRAME |
|---|---|---|

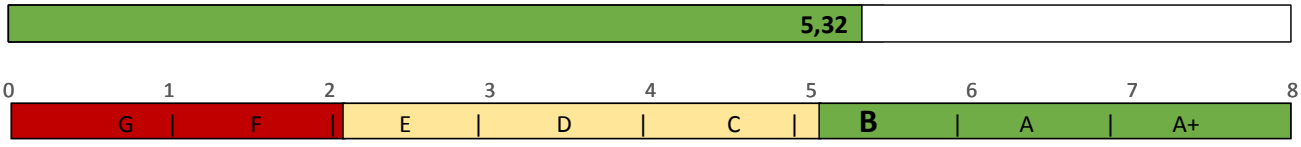
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,38** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,15** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



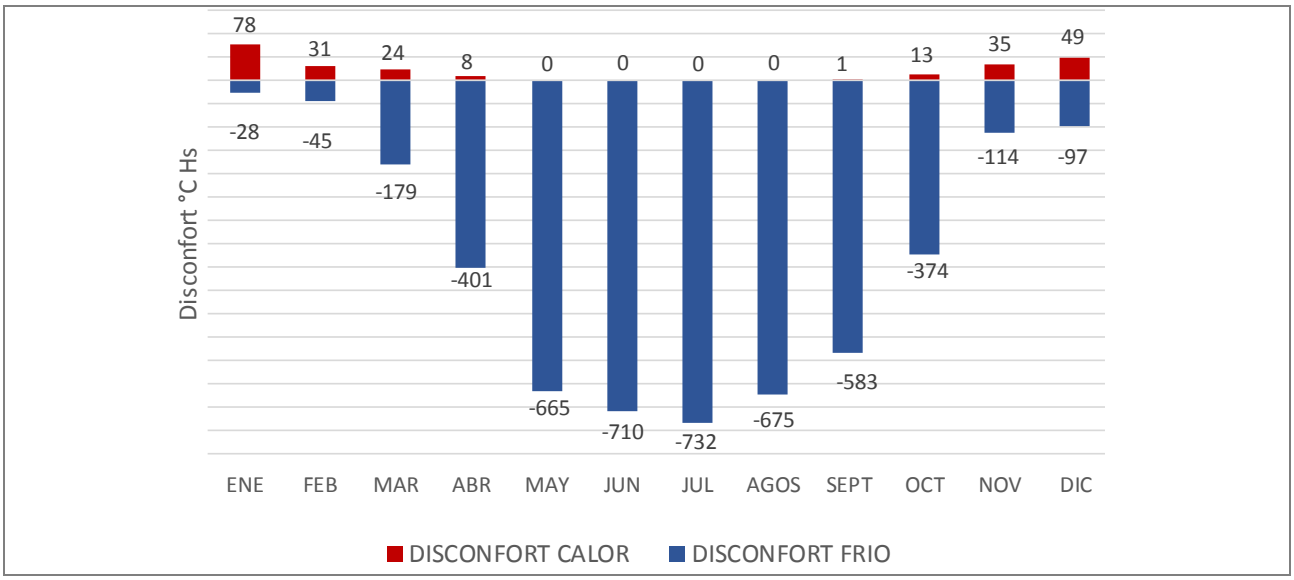




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-033 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

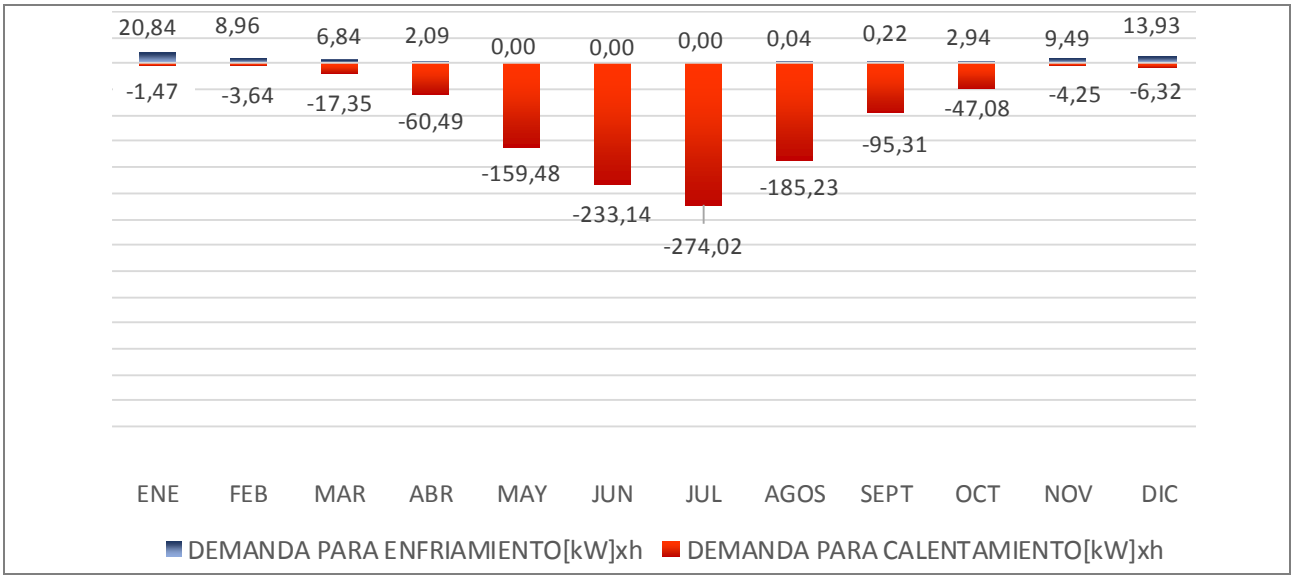
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **241** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.603** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.844** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

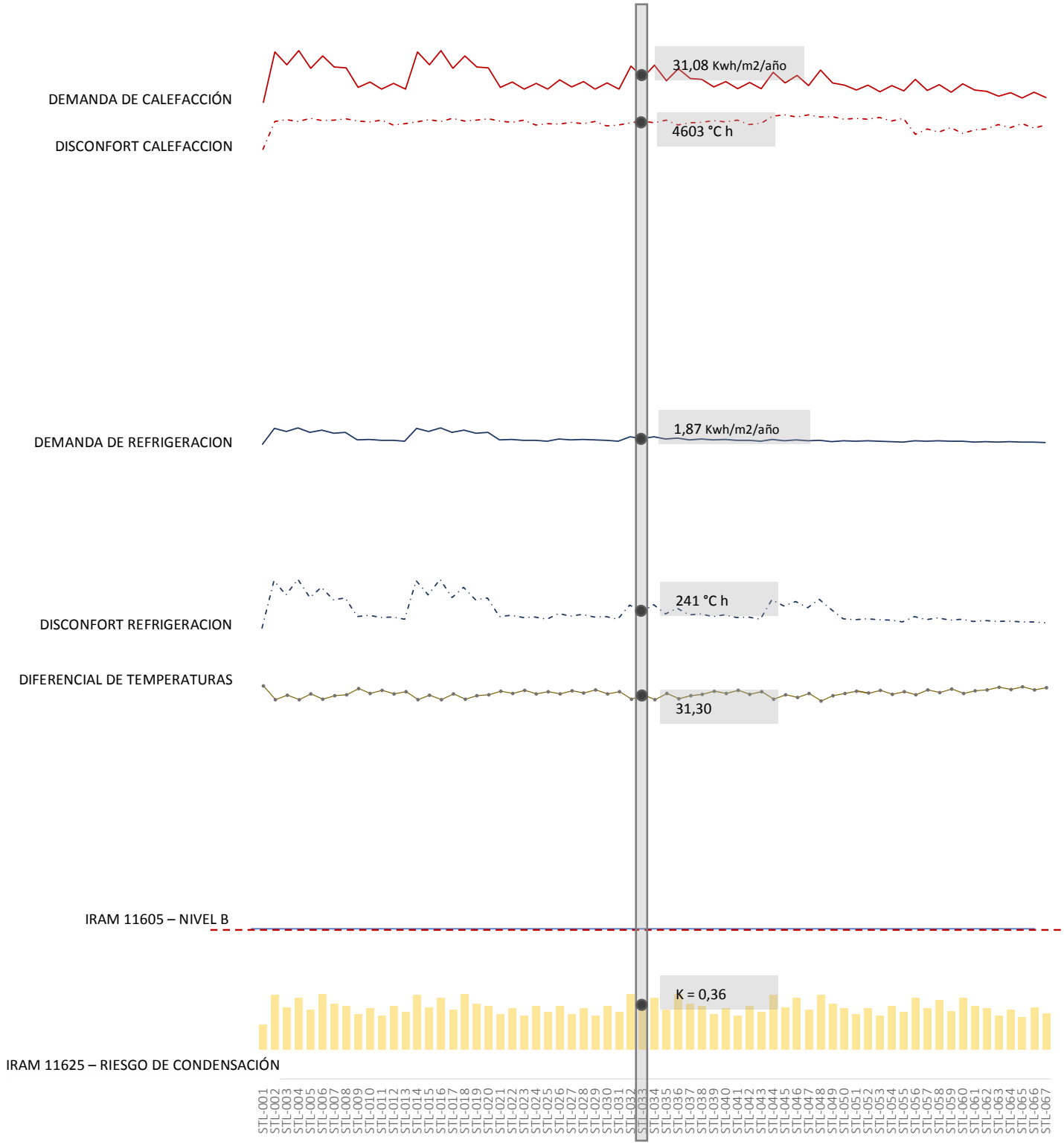



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **65,35** | kWh | 1,87 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.087,80** | kWh | 31,08 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.153,15** | kWh | **32,95** | kWh/m2/año |

| STL-033 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 056 | N° 071 | N° 100 | N° 143 | N° 159 | N° 128 |



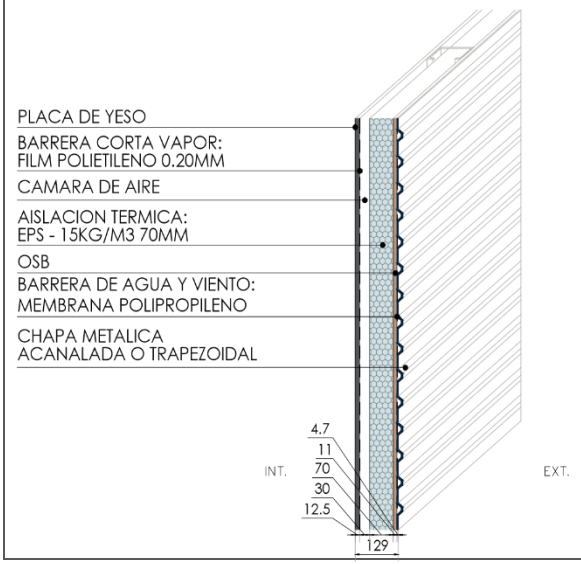

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,36 | 0% | 31,3 | 31,08 | 1,87 | 4603 | 241 |
| INC. FAMILIA | 101,94% | 0% | 99,94% | 97,54% | 74,68% | 100,19% | 85,62% |
| INC. MUNDIAL | 30,27% | 0% | 101,58% | 75,57% | 31,16% | 103,17% | 47,15% |

| STL-034 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 70MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

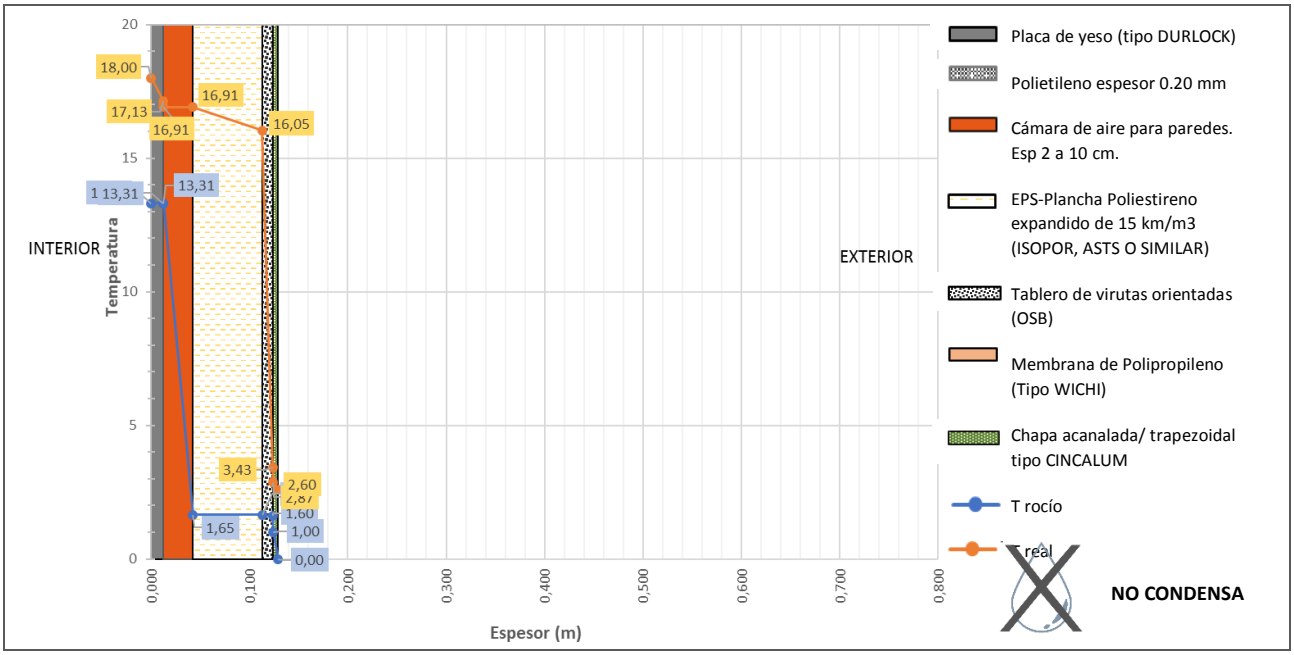
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,43 | 0,43 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



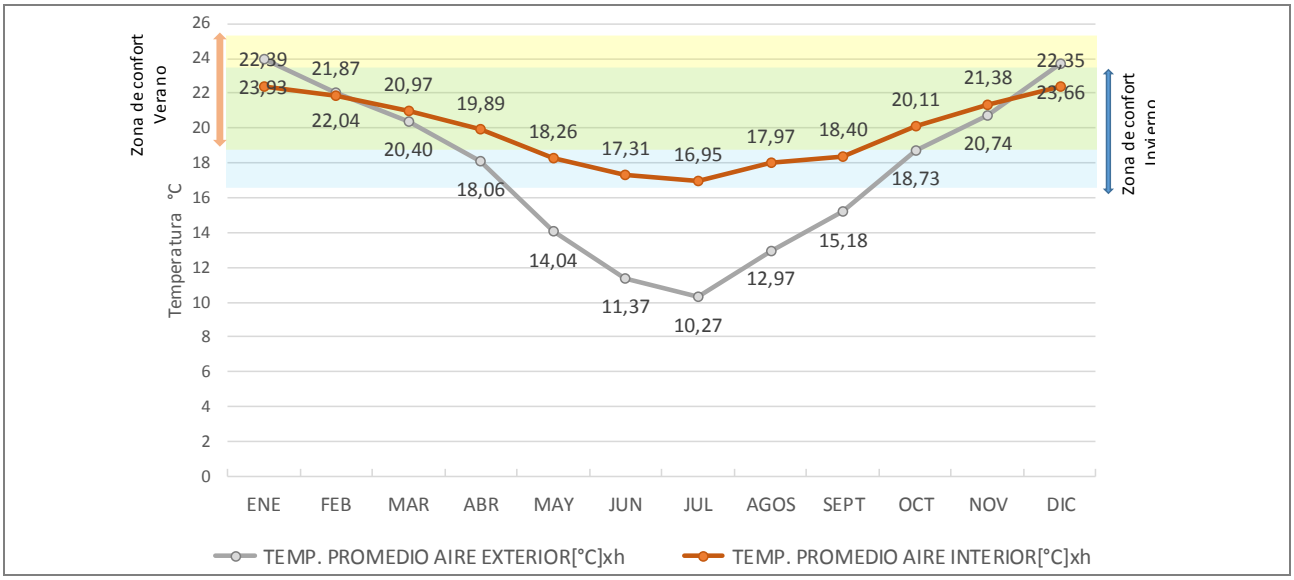

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,3 | 2,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,3** | **4,9** |
| | **Amortiguamiento:** | 0,138 | 0,163 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,3** | **3,5** |
| | **Amortiguamiento:** | 0,249 | 0,401 |

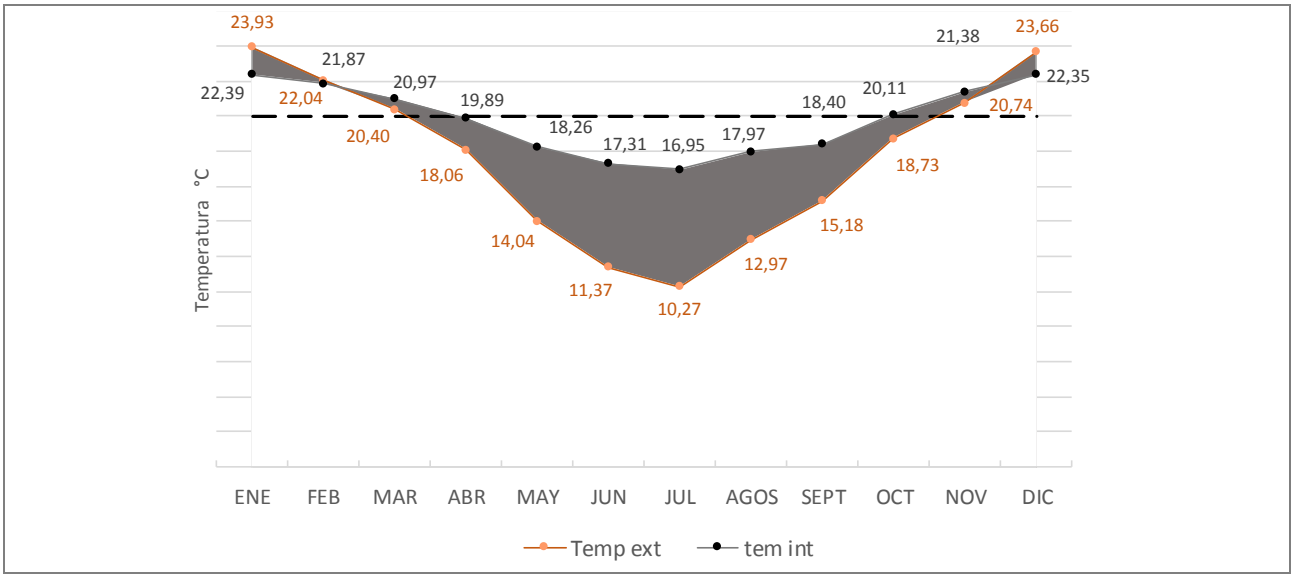
| STL-034 | MU | STEEL FRAME |
|---|---|---|

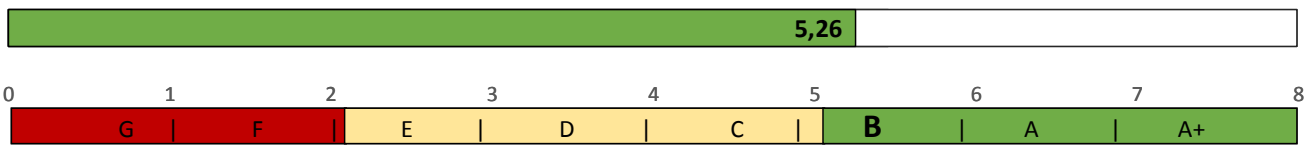
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,72** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **13,78** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



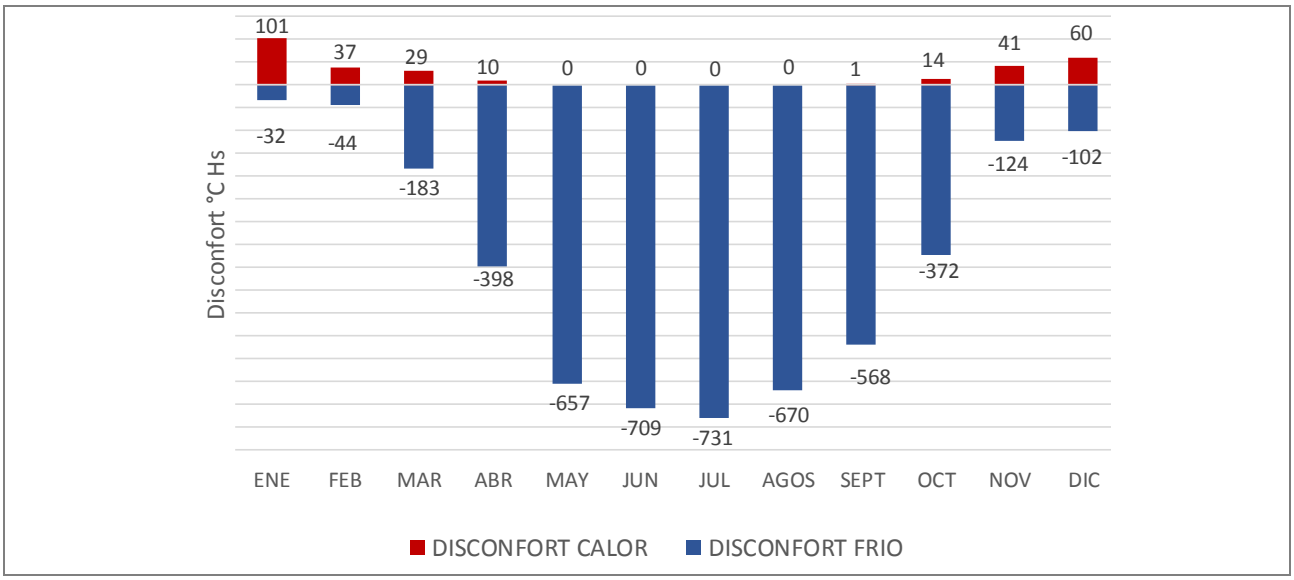




5,26 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-034 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

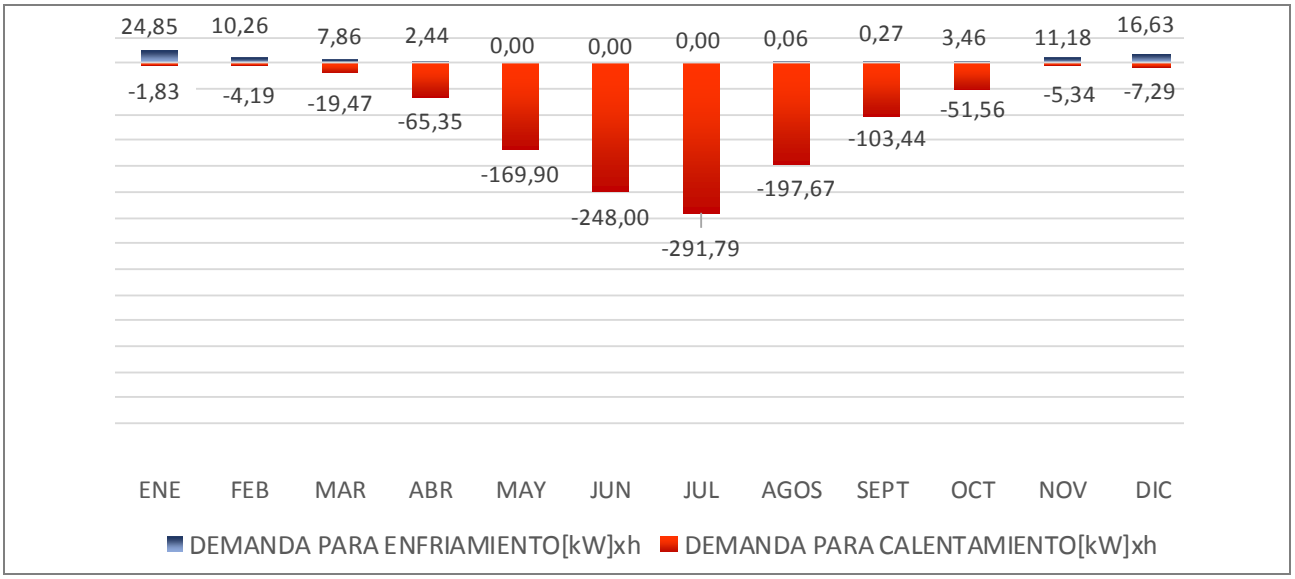
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **294** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.590** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.884** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

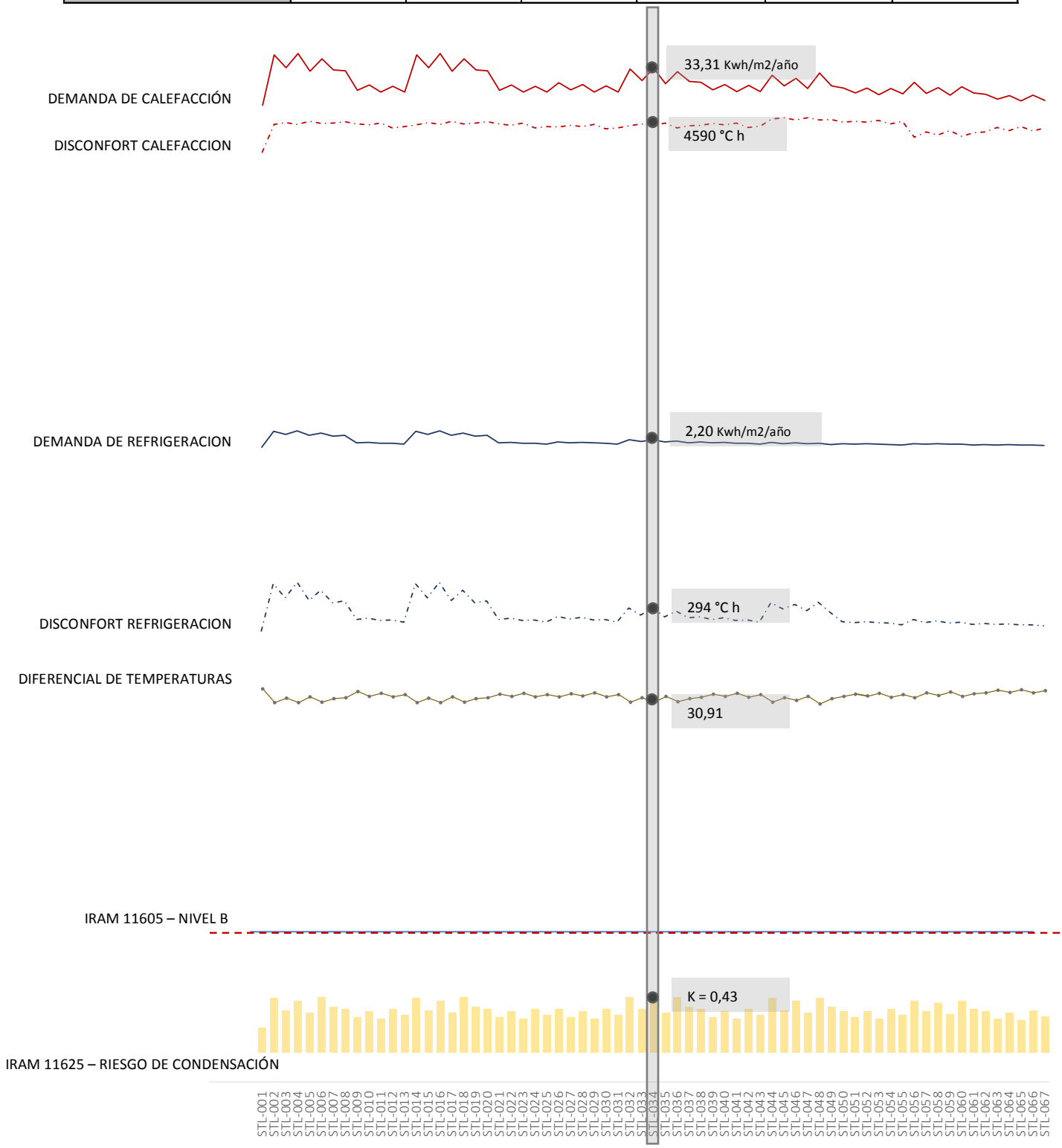



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **77,02** | kWh | 2,20 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.165,84** | kWh | 33,31 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.242,85** | kWh | **35,51** | kWh/m2/año |

| STL-034 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 085 | N° 124 | N° 138 | N° 154 | N° 144 | N° 143 |



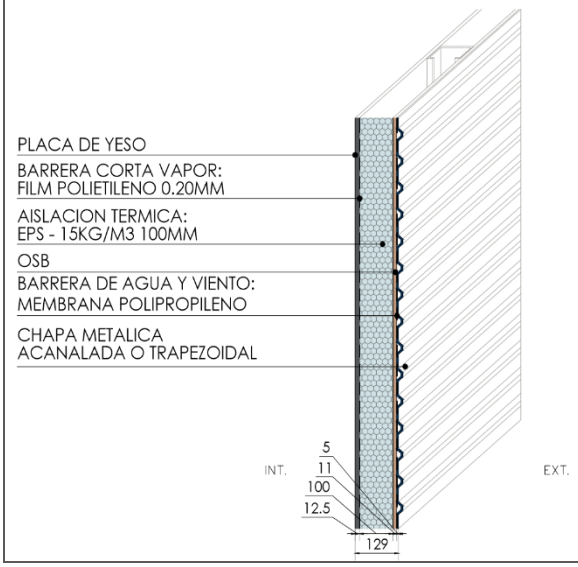

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,43 | 0% | 30,91 | 33,31 | 2,2 | 4590 | 294 |
| INC. FAMILIA | 121,77% | 0% | 98,69% | 104,54% | 87,86% | 99,91% | 104,45% |
| INC. MUNDIAL | 36,15% | 0% | 100,31% | 81,00% | 36,66% | 102,88% | 57,52% |

| STL-035 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

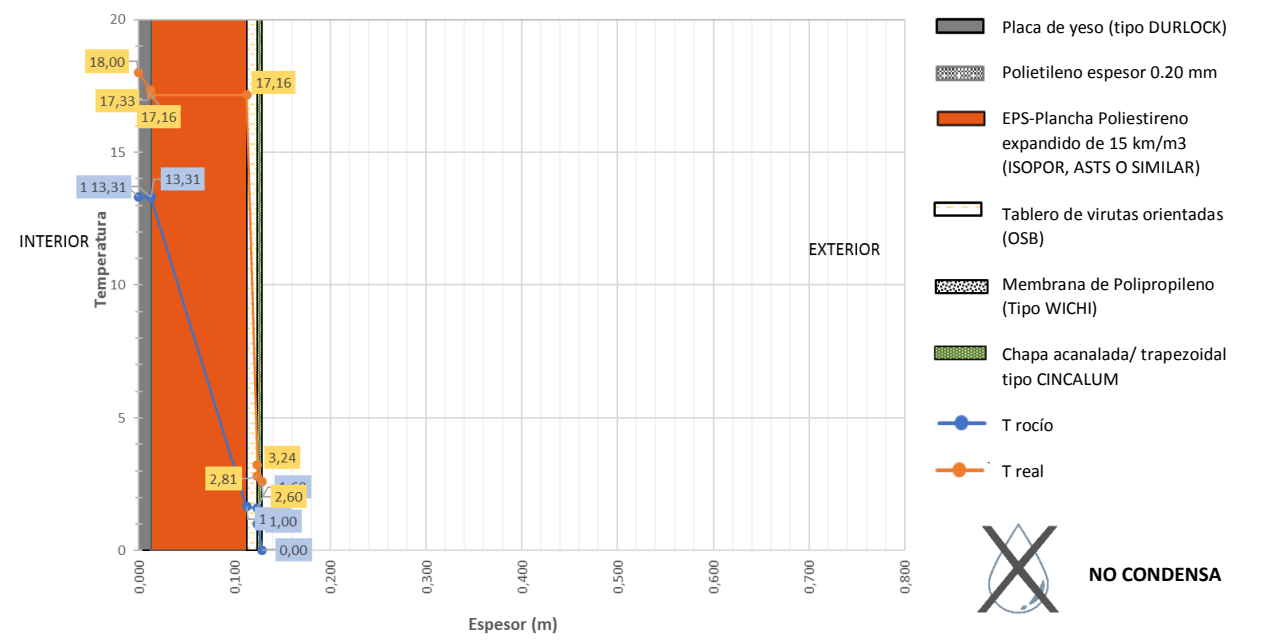
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,33 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



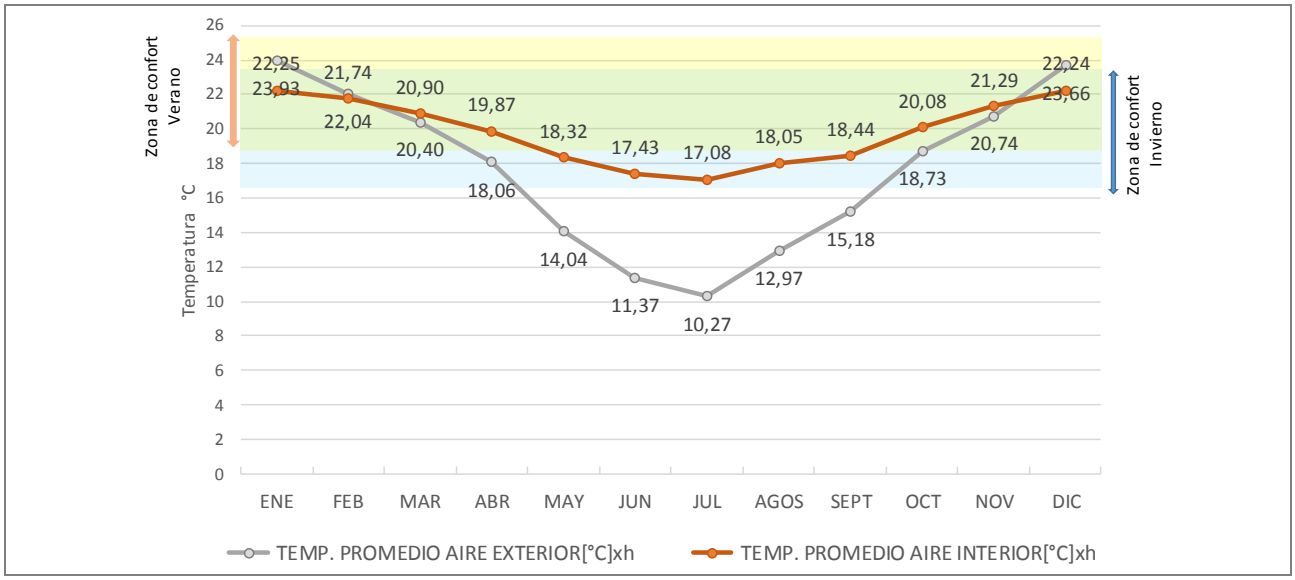

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,5 | 2,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,1** | **5,6** |
| | **Amortiguamiento:** | 0,103 | 0,124 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,0** | **4,0** |
| | **Amortiguamiento:** | 0,206 | 0,353 |

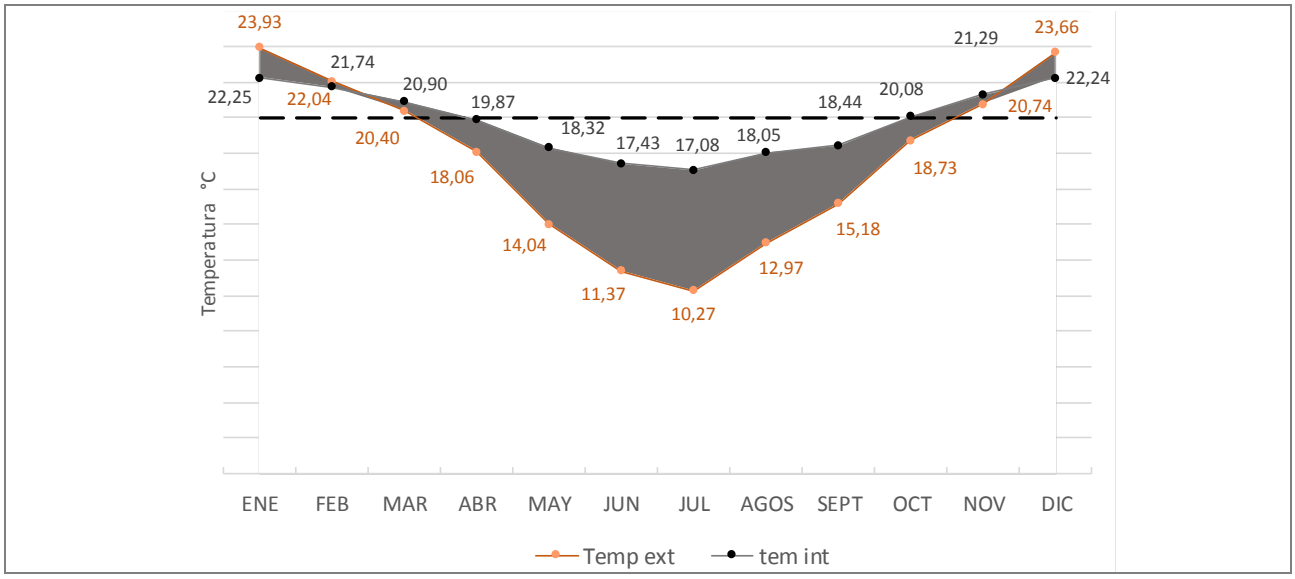
| STL-035 | MU | STEEL FRAME |
|---|---|---|

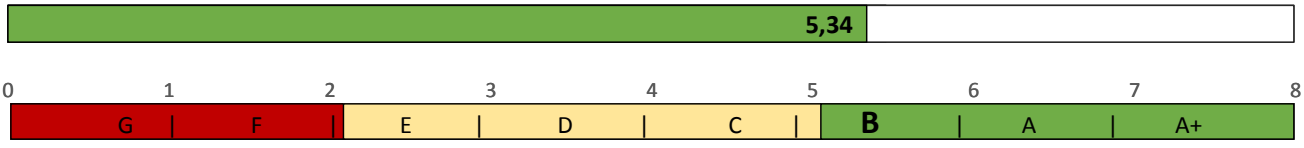
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,29** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,25** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



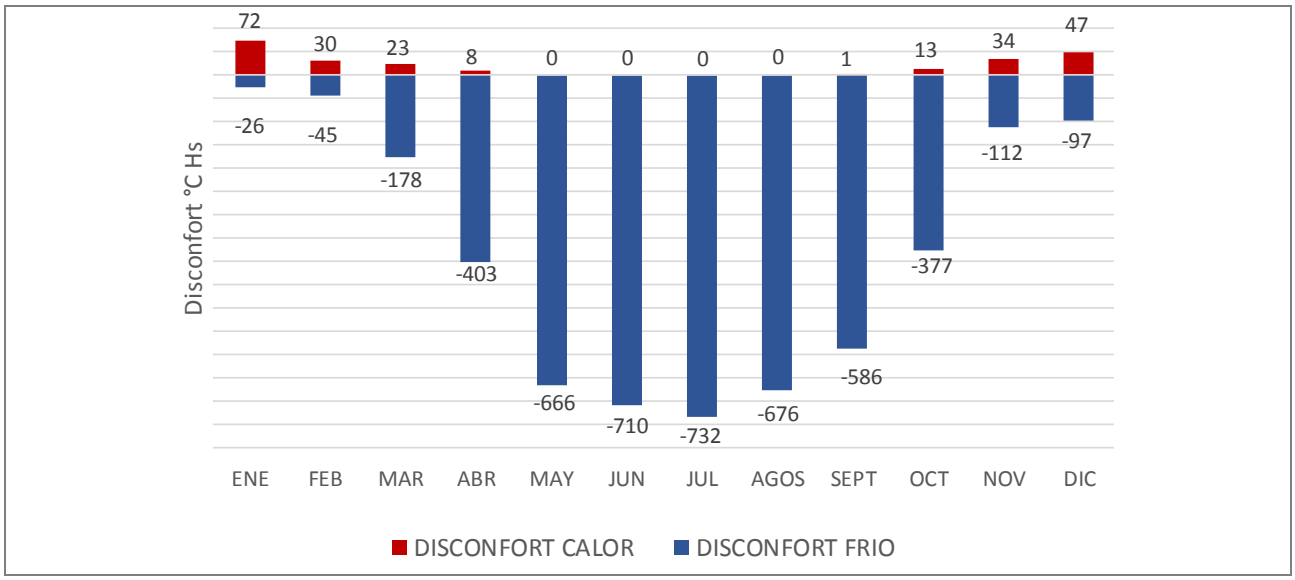




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-035 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

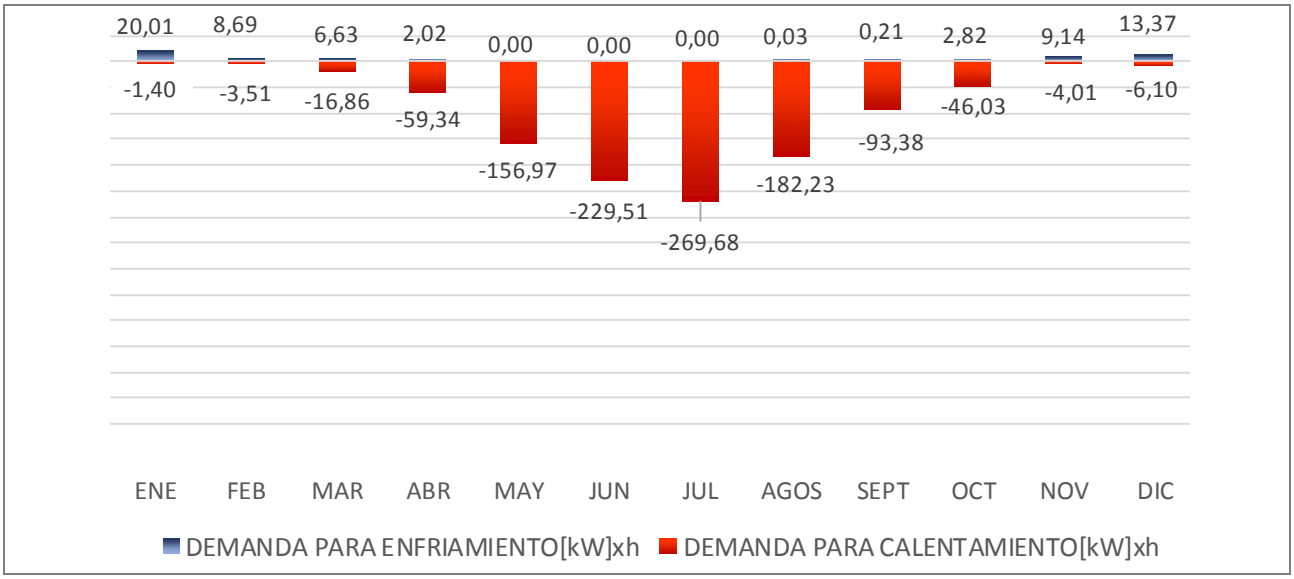
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **229** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.608** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.837** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

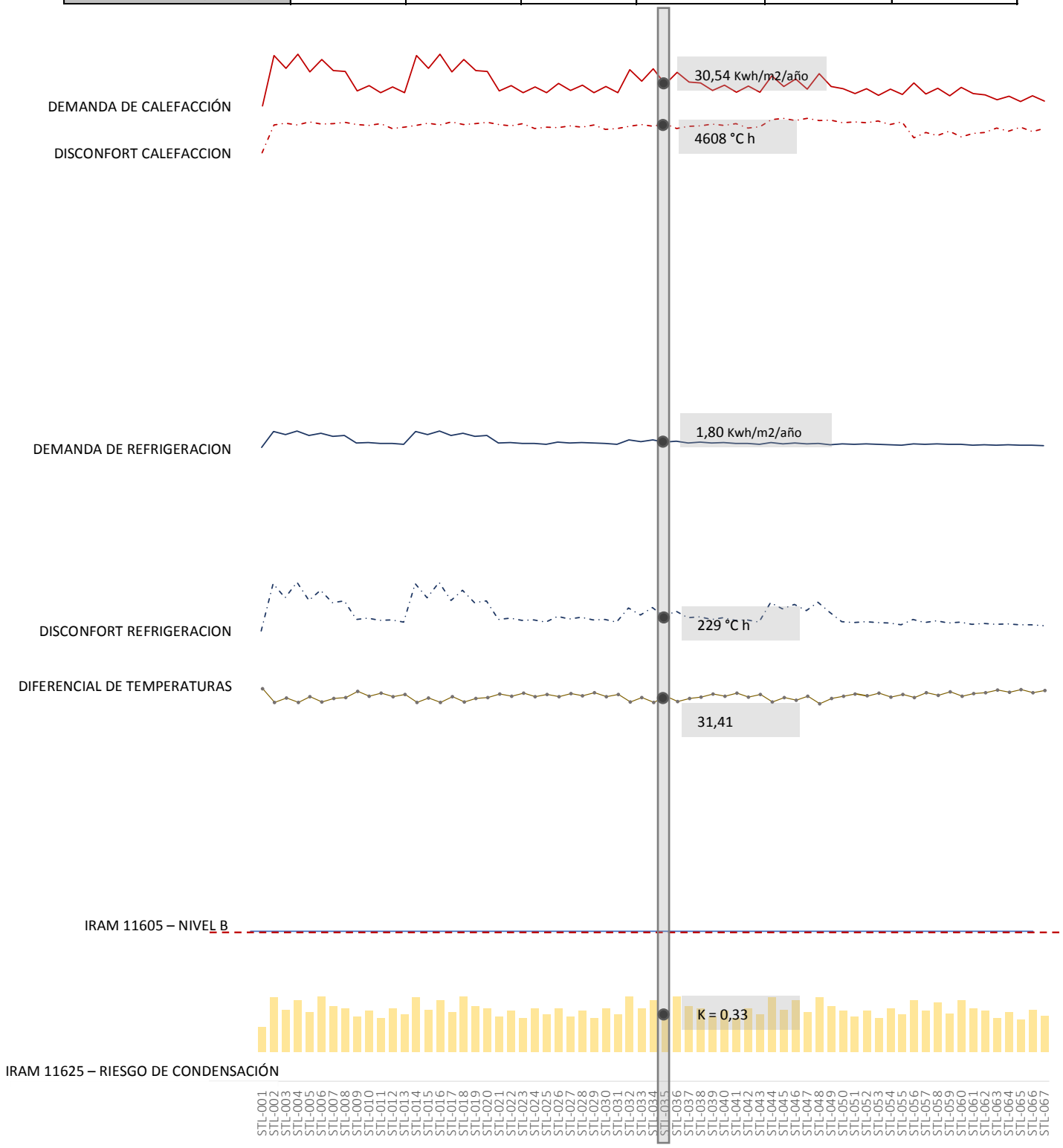



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **62,92** | kWh | 1,80 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.069,01** | kWh | 30,54 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.131,93** | kWh | **32,34** | kWh/m2/año |

| STL-035 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 031 | N° 048 | N° 086 | N° 141 | N° 166 | N° 119 |



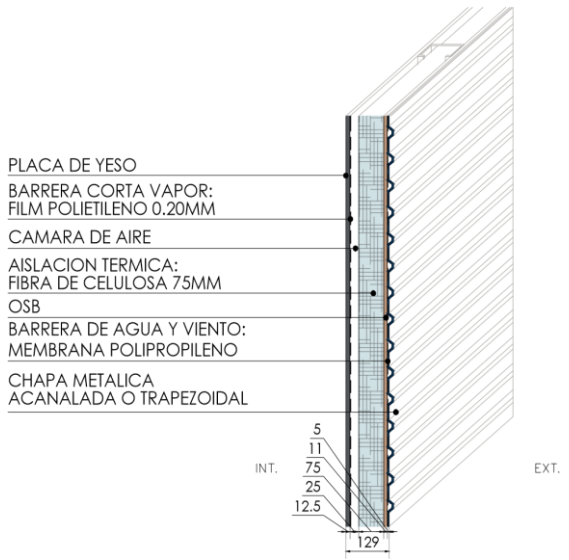

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,33 | 0% | 31,41 | 30,54 | 1,8 | 4608 | 229 |
| INC. FAMILIA | 93,45% | 0% | 100,29% | 95,85% | 71,89% | 100,30% | 81,36% |
| INC. MUNDIAL | 27,75% | 0% | 101,93% | 74,26% | 29,99% | 103,28% | 44,80% |

| STL-036 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

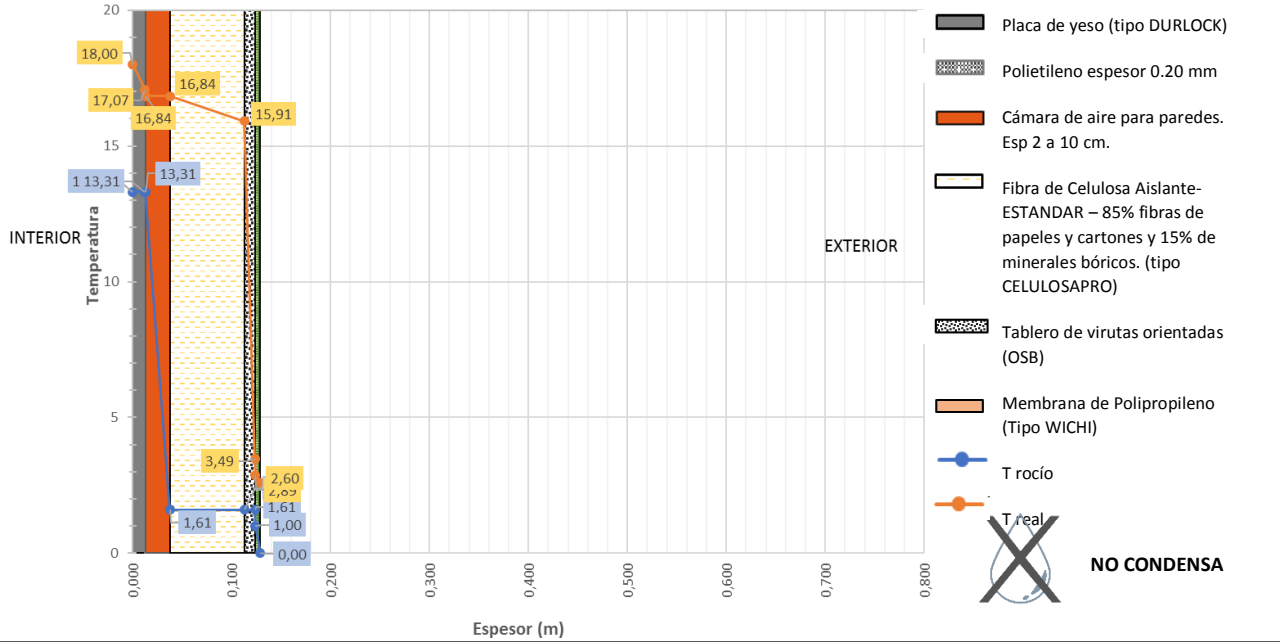
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,46 | 0,46 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



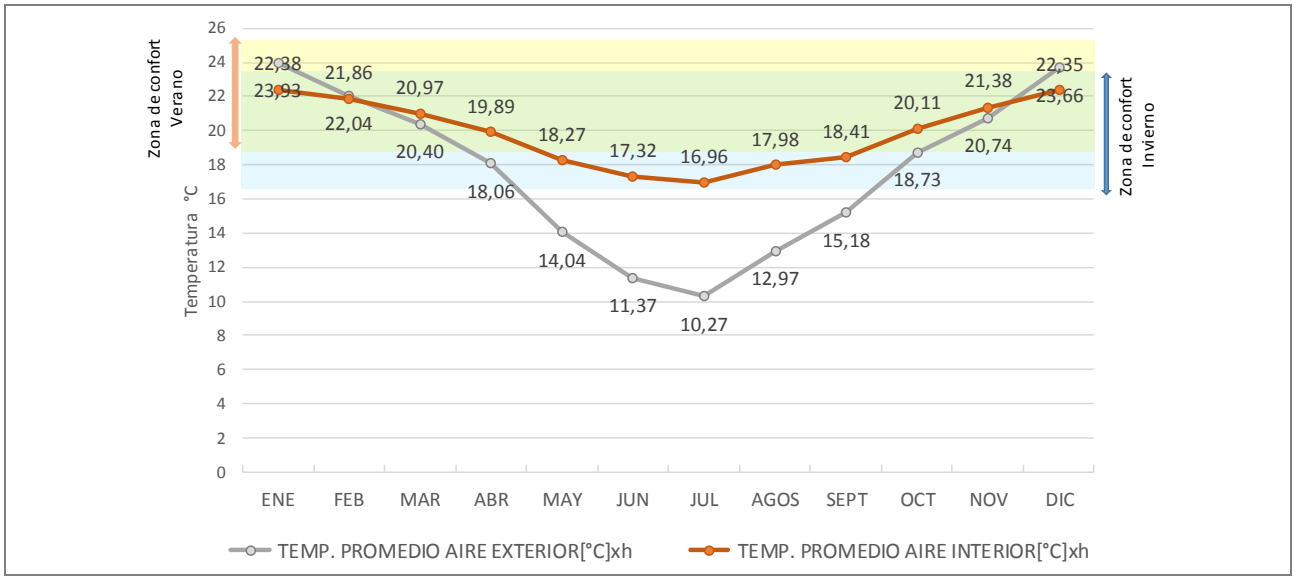

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 5,1 | 4,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,2** | **5,9** |
| | **Amortiguamiento:** | 0,100 | 0,114 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,7** | **4,1** |
| | **Amortiguamiento:** | 0,224 | 0,342 |

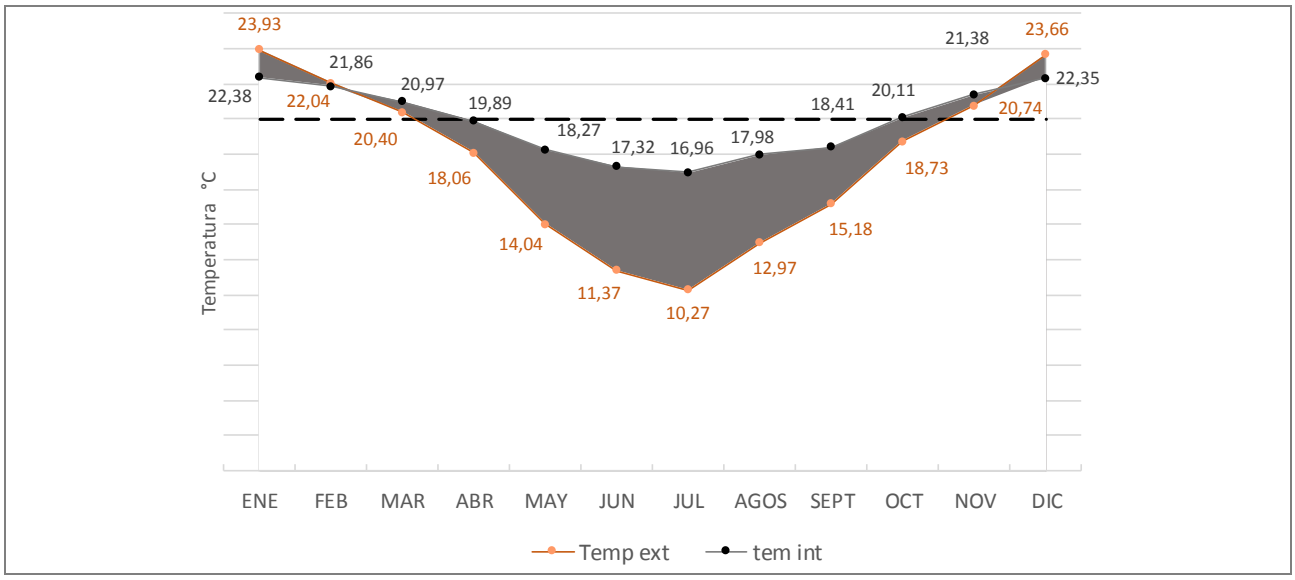
| STL-036 | MU | STEEL FRAME |
|---|---|---|

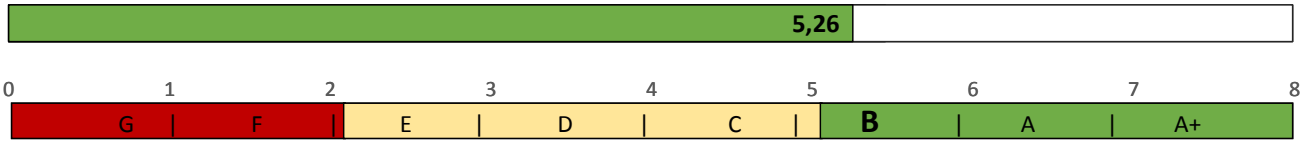
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,46** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **13,95** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



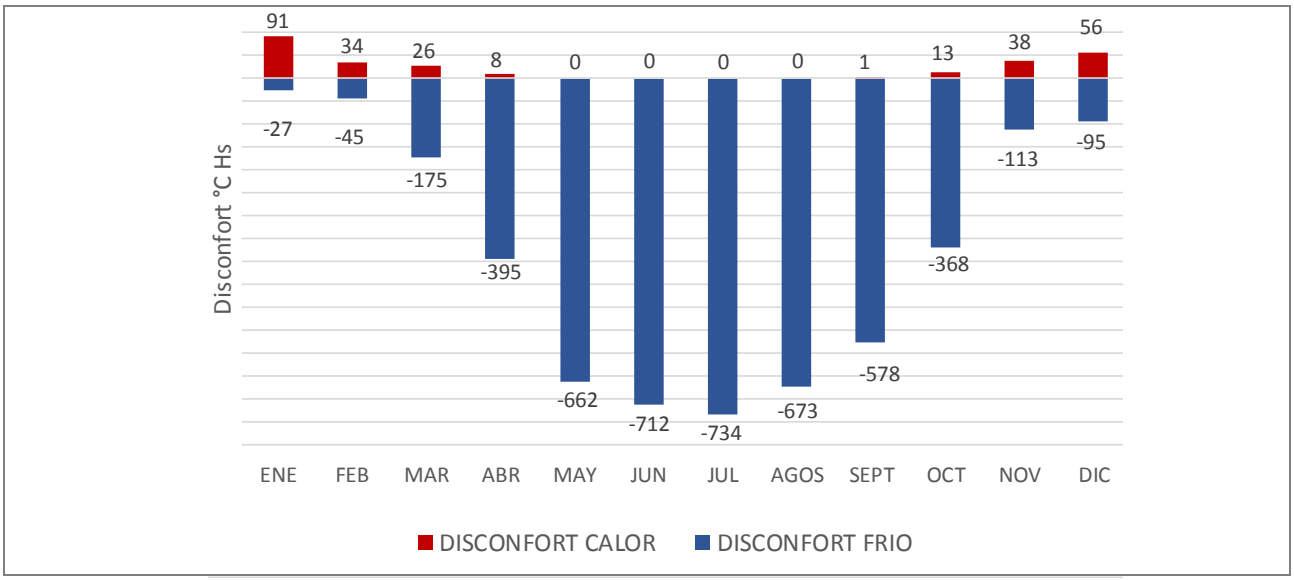




5,26 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-036 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

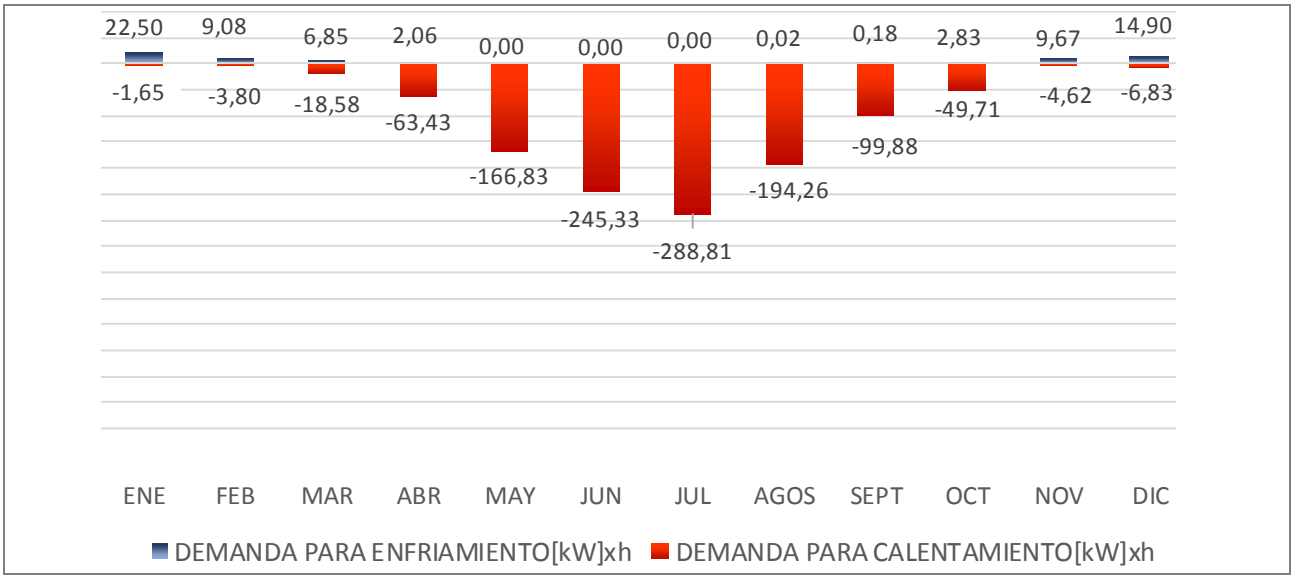
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **268** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.577** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.845** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

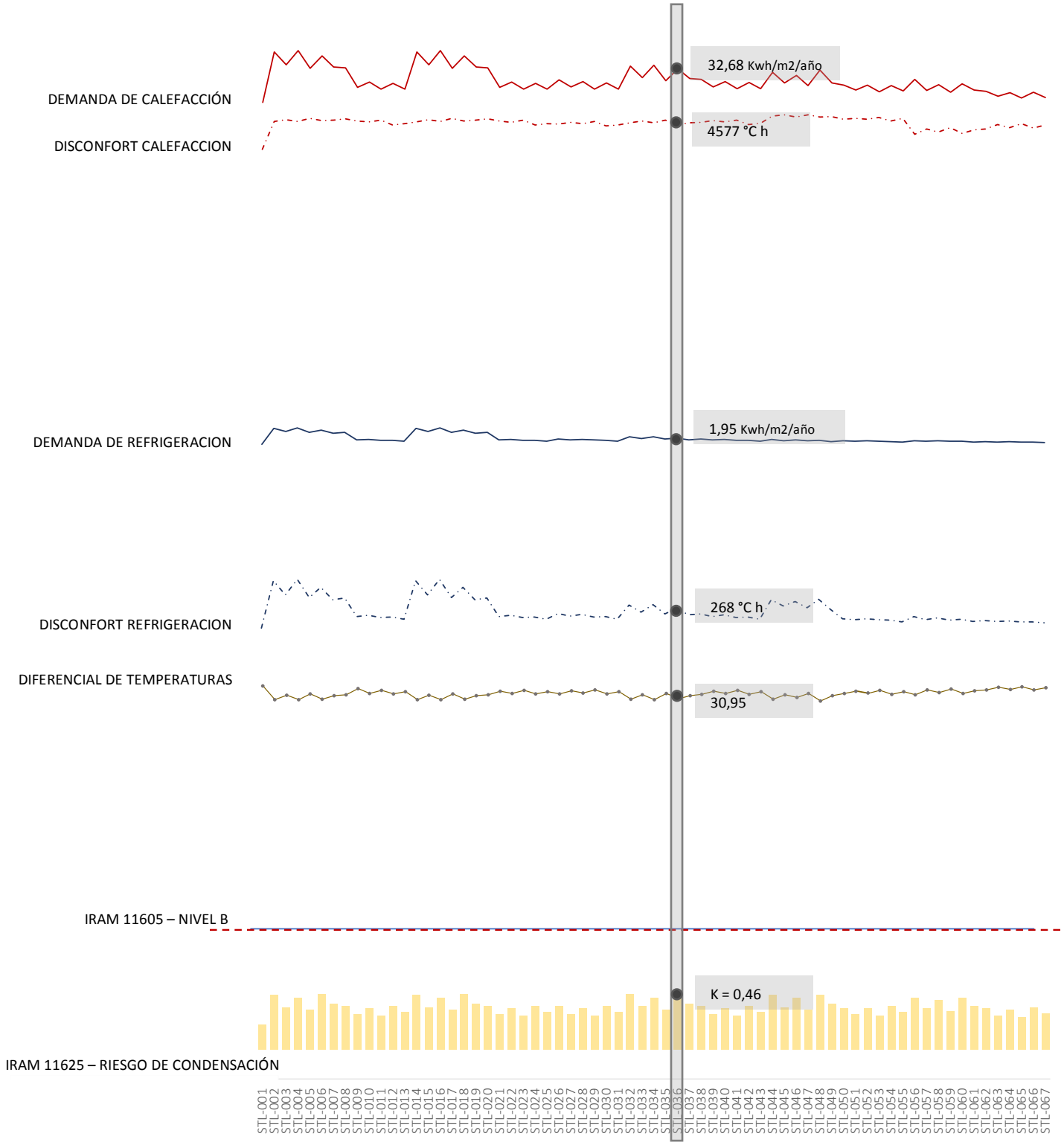



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **68,09** | kWh | 1,95 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.143,74** | kWh | 32,68 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1211,83** | kWh | **34,62** | kWh/m2/año |

| STL-036 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 104 | N° 116 | N° 122 | N° 146 | N° 130 | N° 135 |



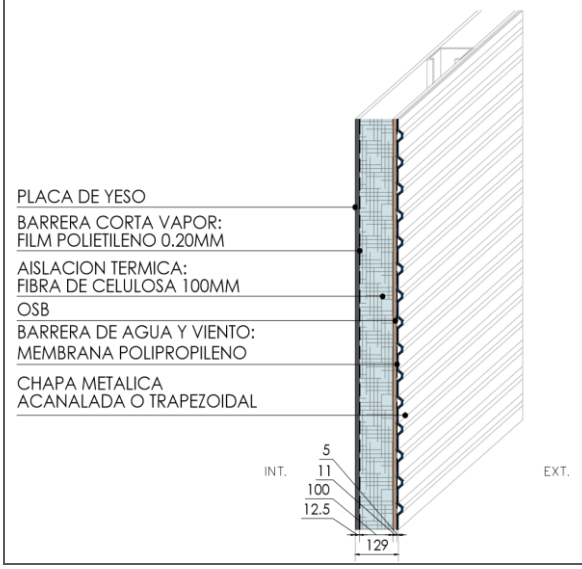

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,46 | 0% | 30,95 | 32,68 | 1,95 | 4577 | 268 |
| INC. FAMILIA | 130,26% | 0% | 98,82% | 102,57% | 77,88% | 99,63% | 95,21% |
| INC. MUNDIAL | 38,68% | 0% | 100,44% | 79,46% | 32,49% | 102,59% | 52,43% |

| STL-037 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

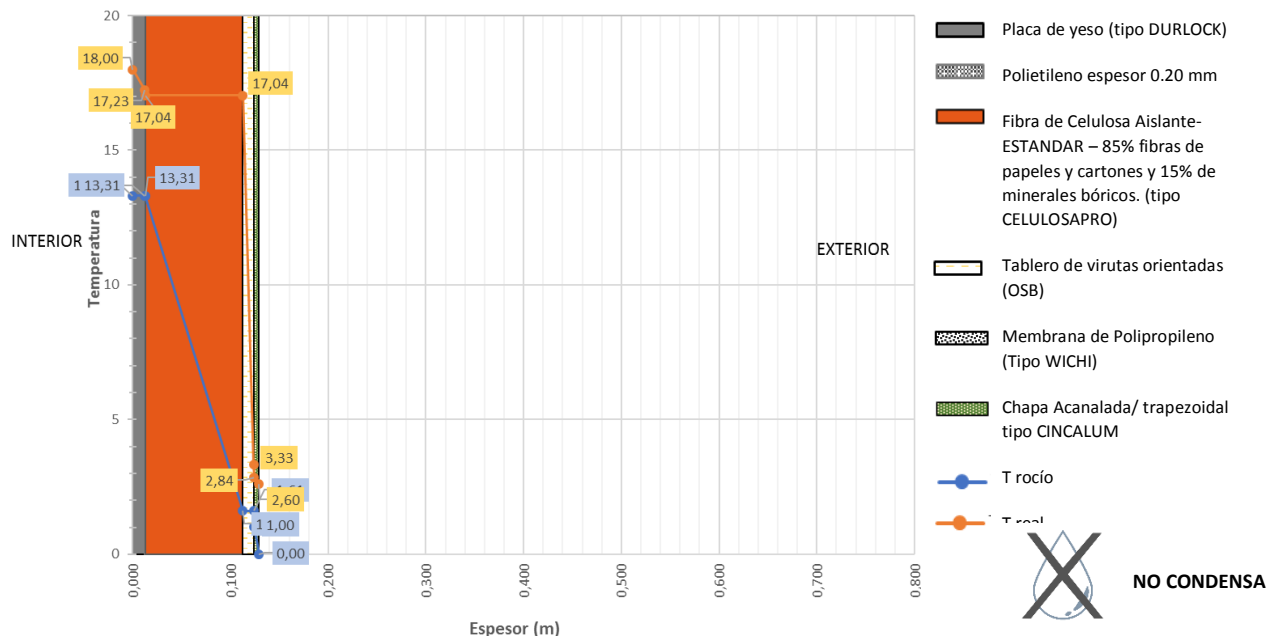
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,38 | 0,38 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



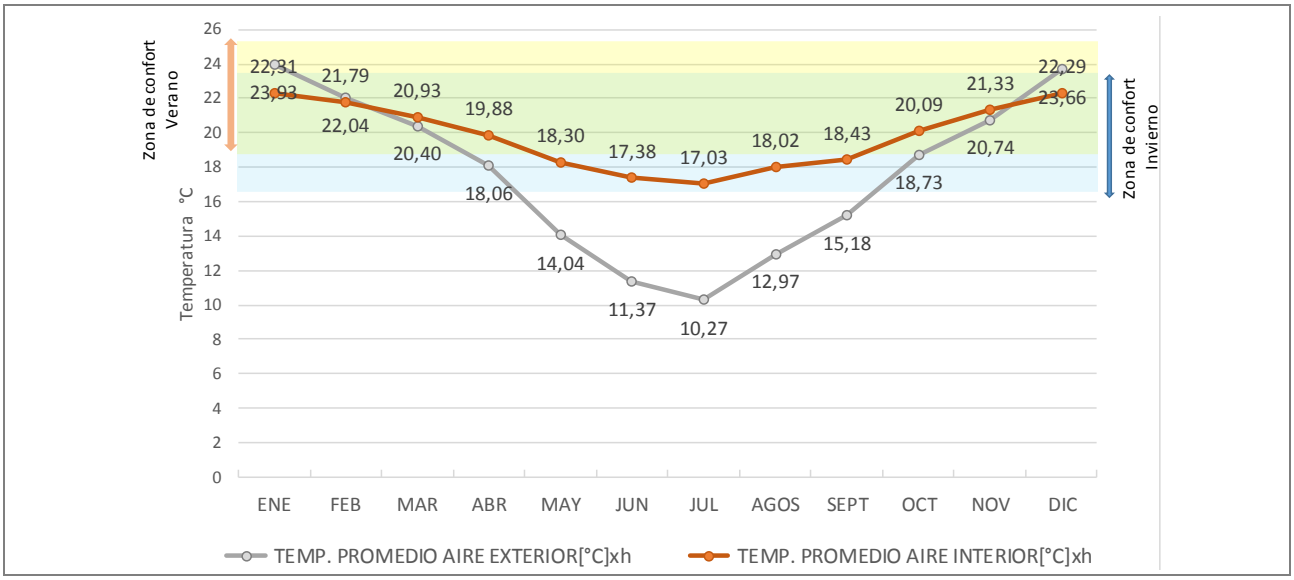

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,6 | 4,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,2** | **6,9** |
| | **Amortiguamiento:** | 0,069 | 0,079 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,4** | **4,8** |
| | **Amortiguamiento:** | 0,185 | 0,284 |

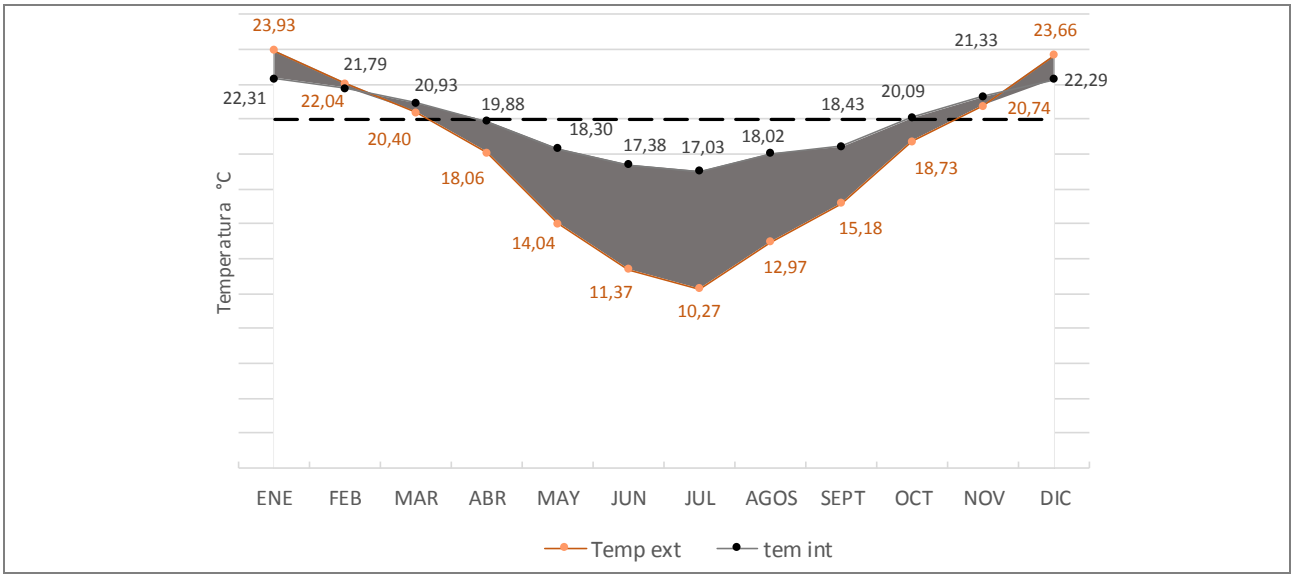
| STL-037 | MU | STEEL FRAME |
|---|---|---|

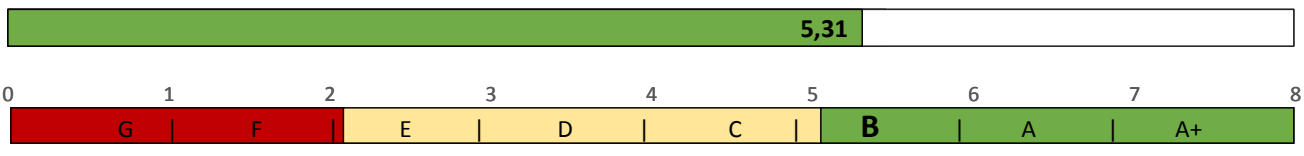
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,16** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,26** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



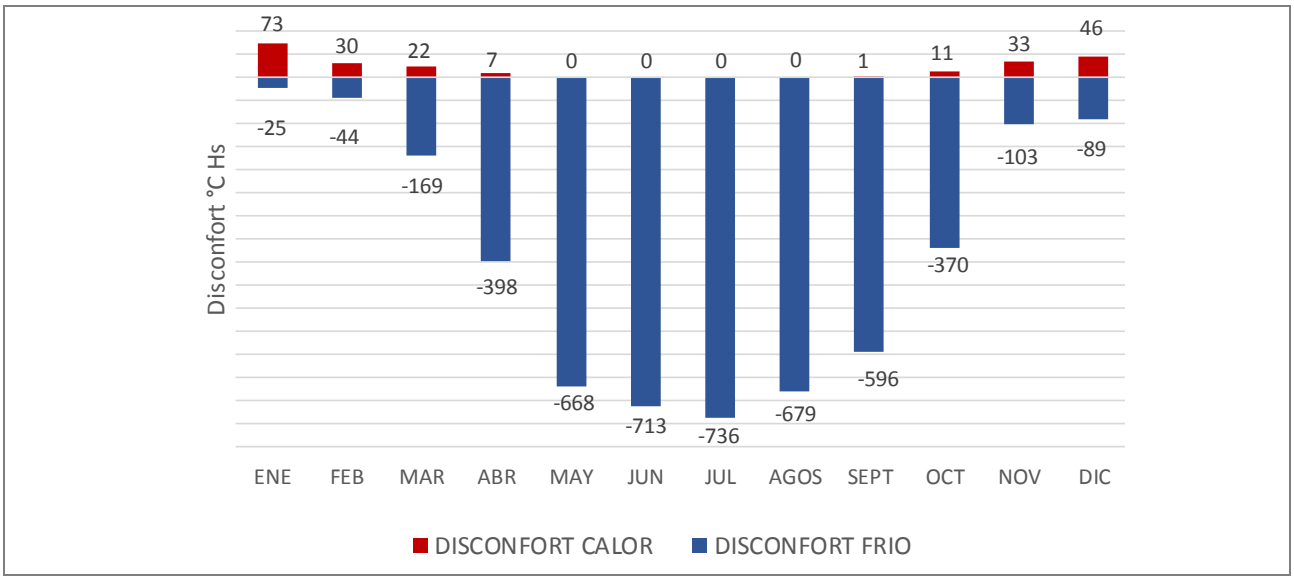




5,31 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-037 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

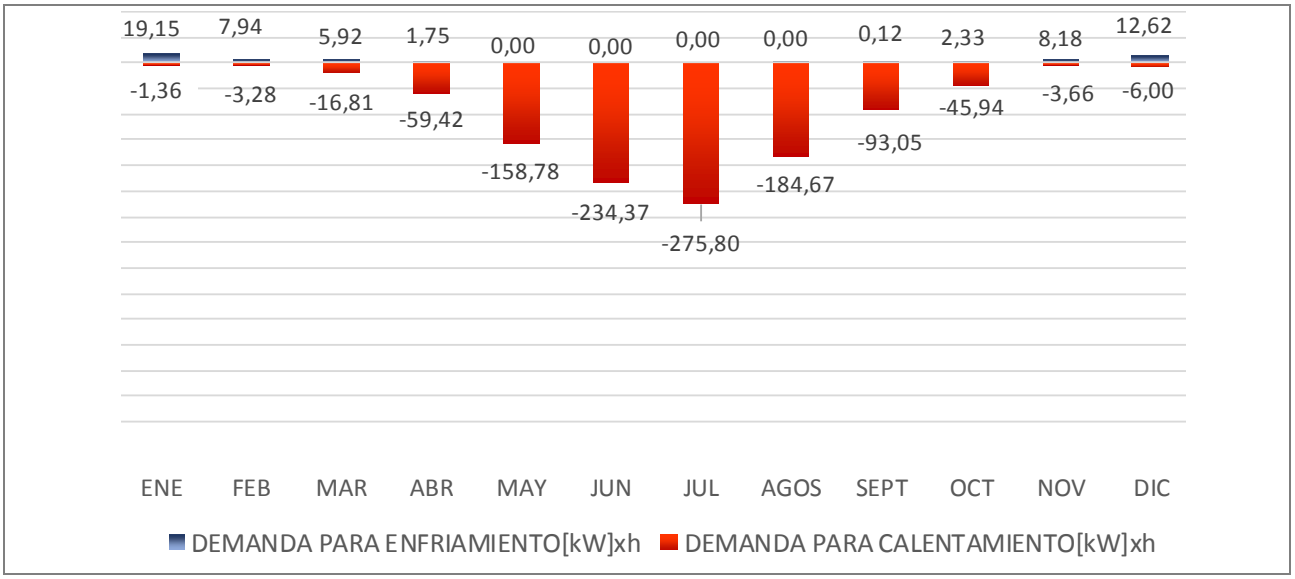
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **222** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.590** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.812** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

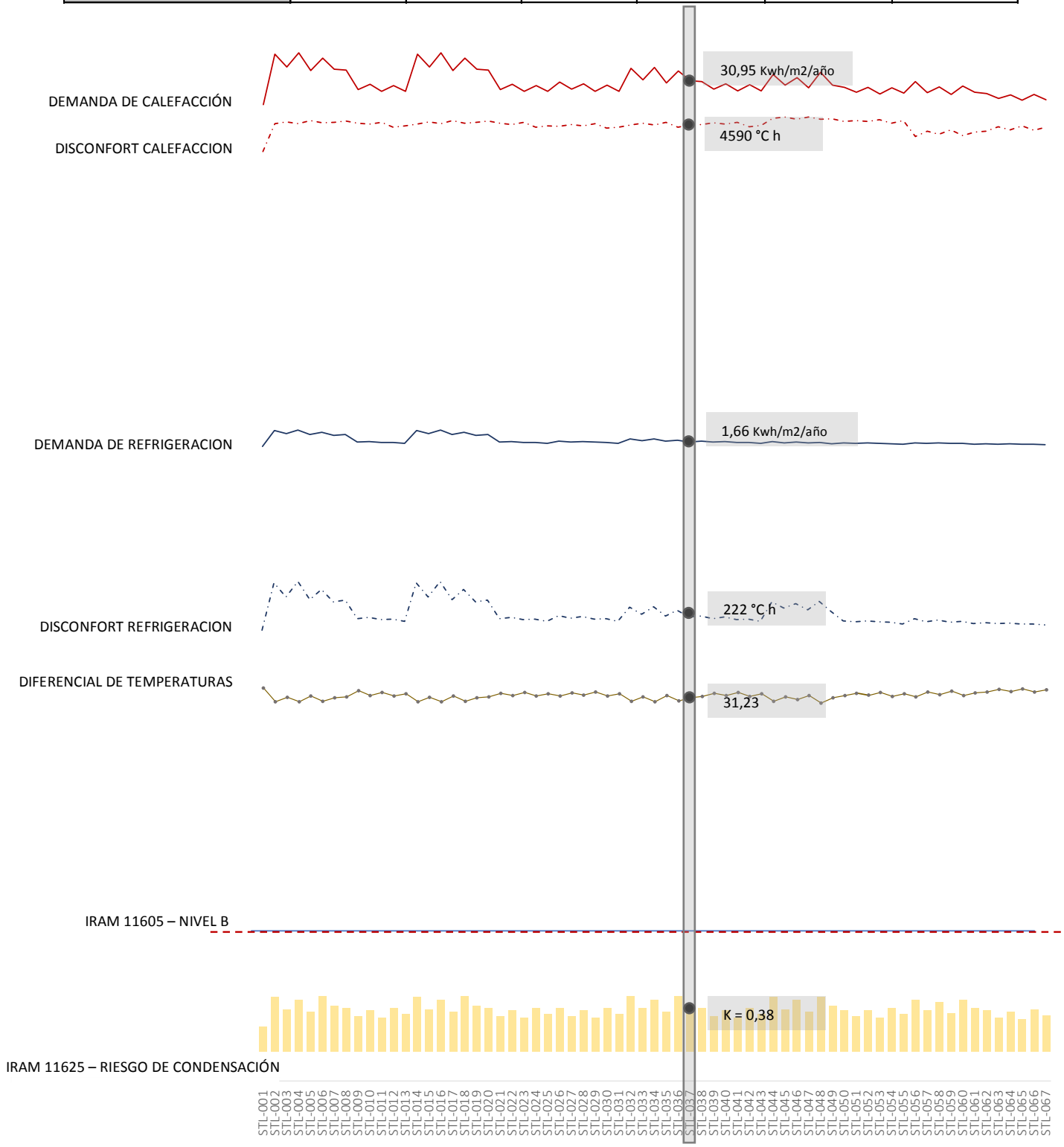



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **58,01** | kWh | 1,66 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.083,14** | kWh | 30,95 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.141,15** | kWh | **32,60** | kWh/m2/año |

| STL-037 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 068 | N° 084 | N° 095 | N° 128 | N° 145 | N° 115 |



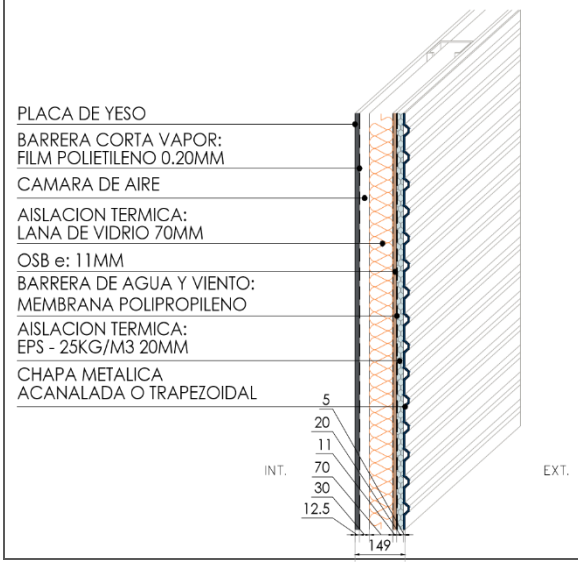

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,38 | 0% | 31,23 | 30,95 | 1,66 | 4590 | 222 |
| INC. FAMILIA | 107,61% | 0% | 99,72% | 97,14% | 66,30% | 99,91% | 78,87% |
| INC. MUNDIAL | 31,95% | 0% | 101,35% | 75,26% | 27,66% | 102,88% | 43,43% |

| STL-038 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 70MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

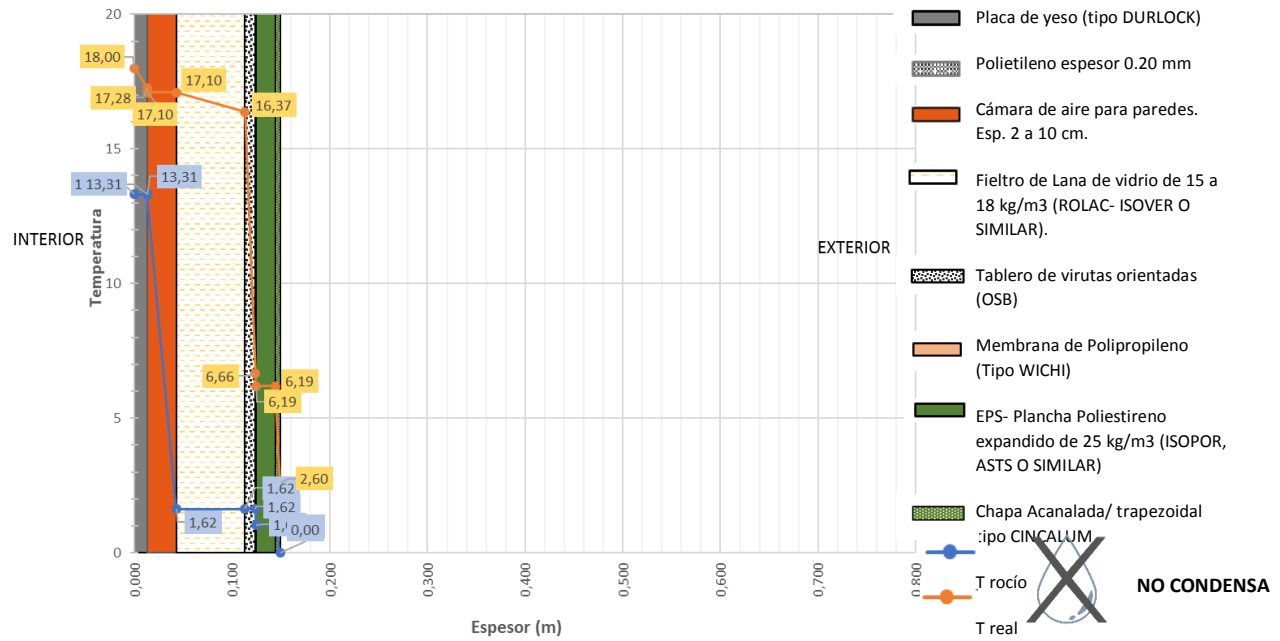
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



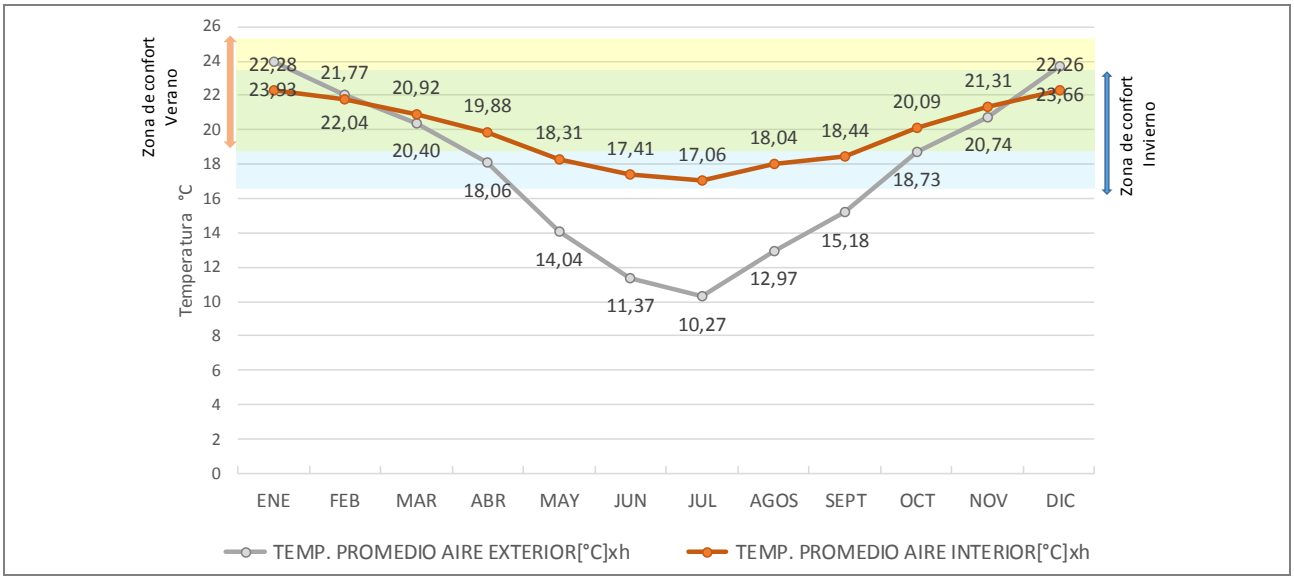

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,7 | 2,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **5,9** | **5,4** |
| | **Amortiguamiento:** | 0,112 | 0,135 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,6** | **4,2** |
| | **Amortiguamiento:** | 0,234 | 0,333 |

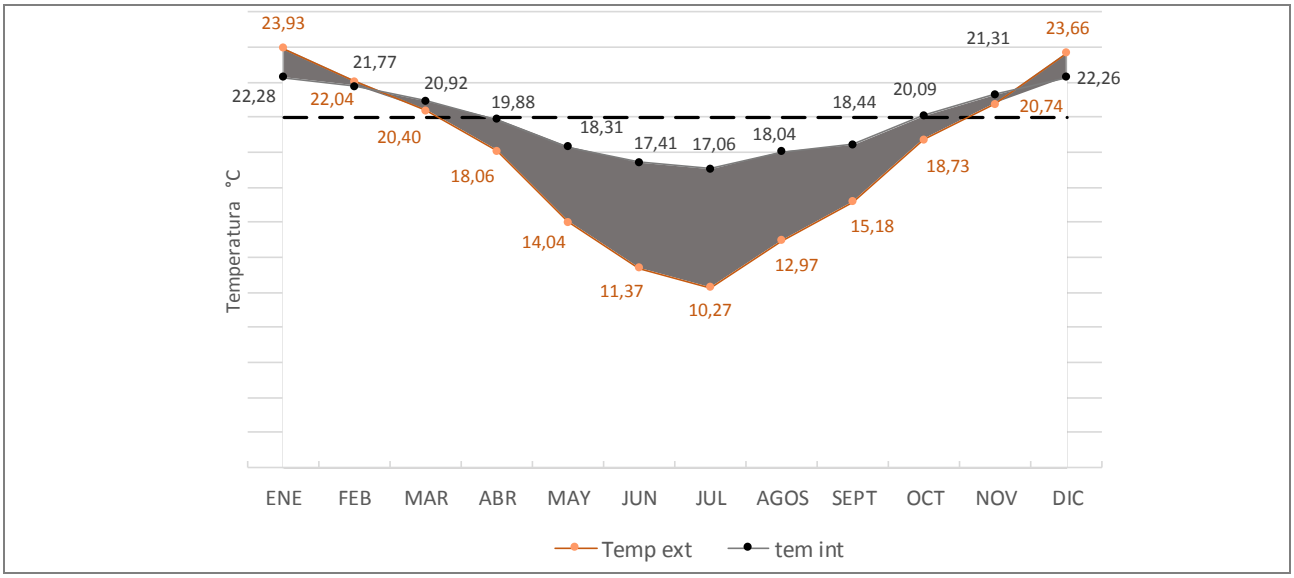
| STL-038 | MU | STEEL FRAME |
|---|---|---|

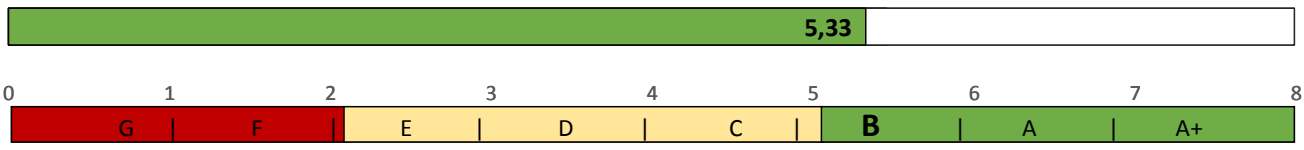
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,24** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,23** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



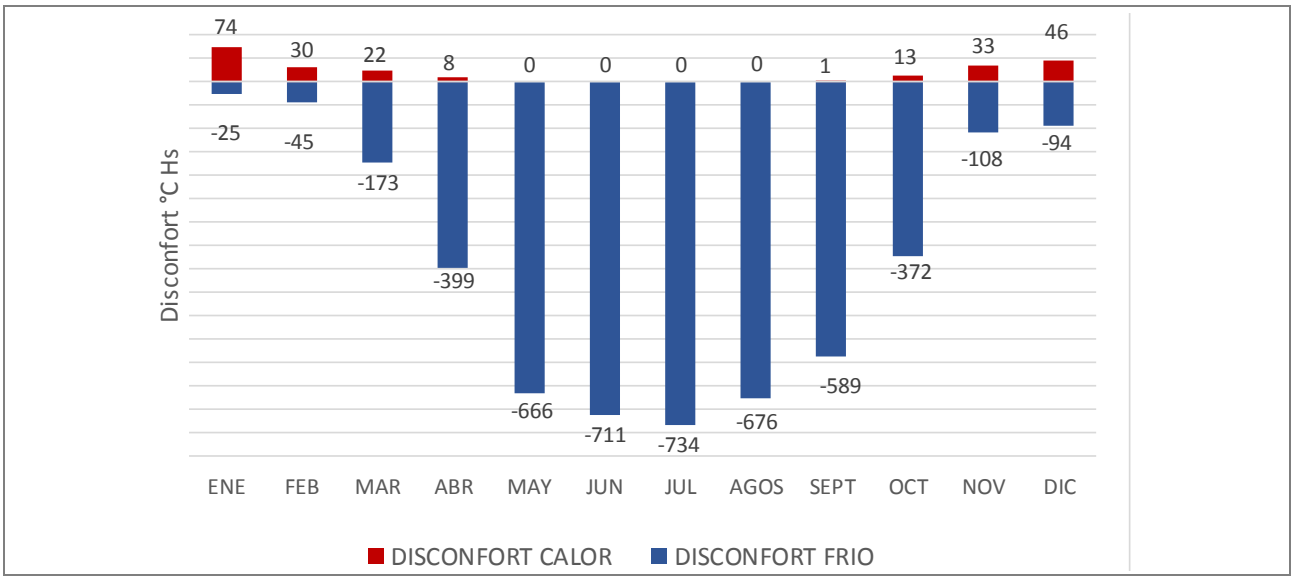




5,33 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-038 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

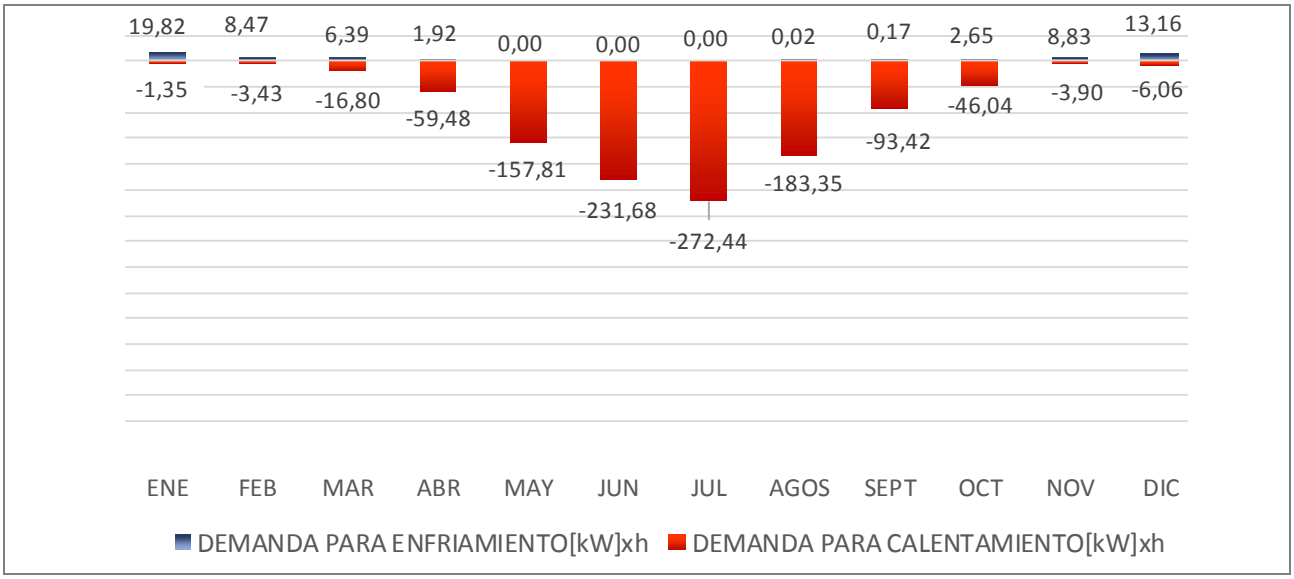
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **227** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.593** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.820** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

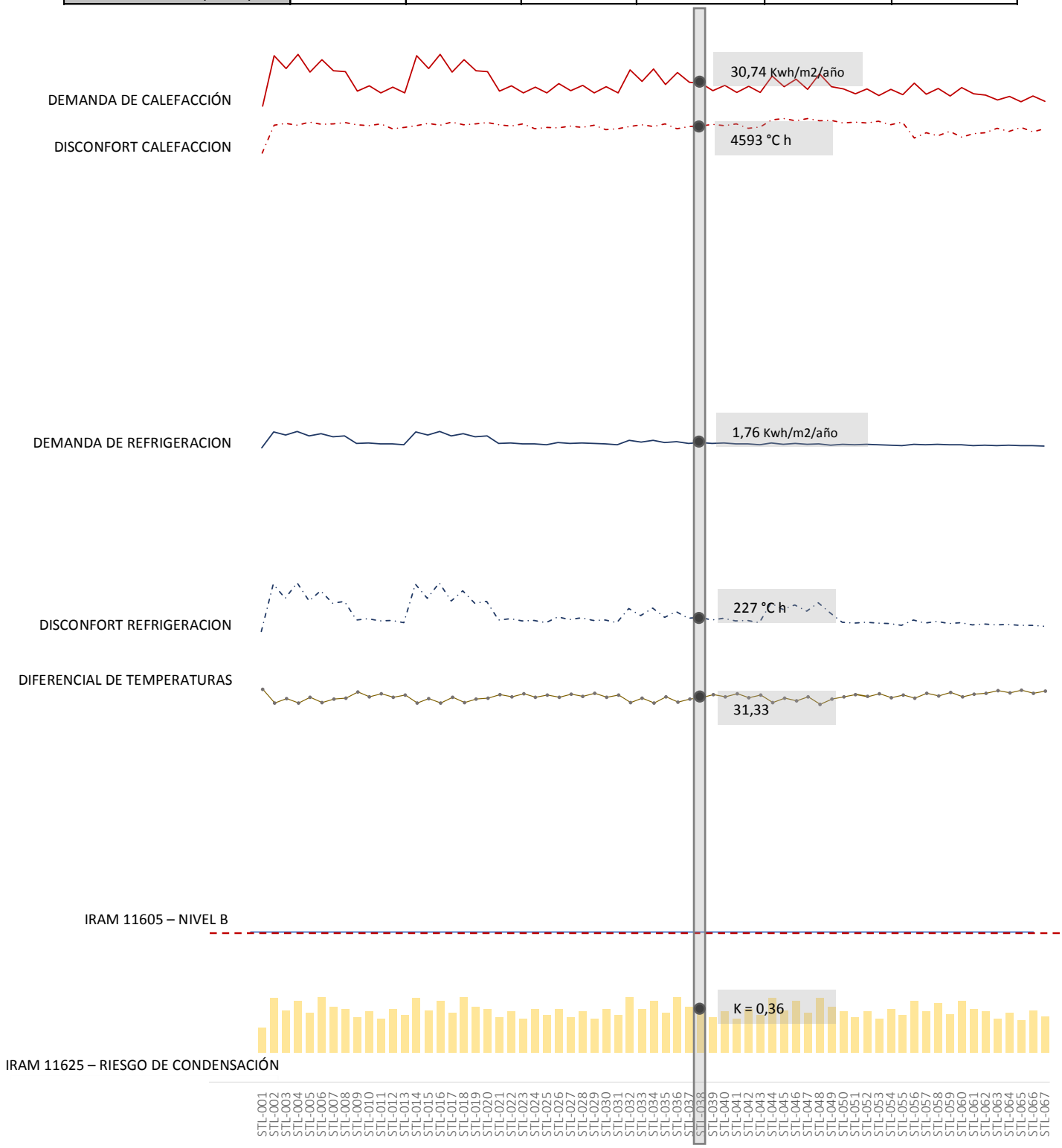



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **61,43** | kWh | 1,76 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.075,77** | kWh | 30,74 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.137,20** | kWh | **32,49** | kWh/m2/año |

| STL-038 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 057 | N° 066 | N° 091 | N° 139 | N° 147 | N° 118 |



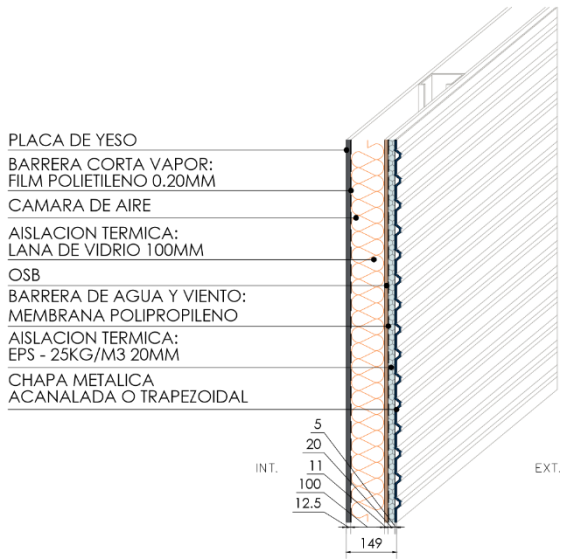

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,36 | | 31,33 | 30,74 | 1,76 | 4593 | 227 |
| INC. FAMILIA | 101,94% | 0% | 100,04% | 96,48% | 70,29% | 99,97% | 80,65% |
| INC. MUNDIAL | 30,27% | 0% | 101,68% | 74,75% | 29,32% | 102,95% | 44,41% |

| STL-039 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

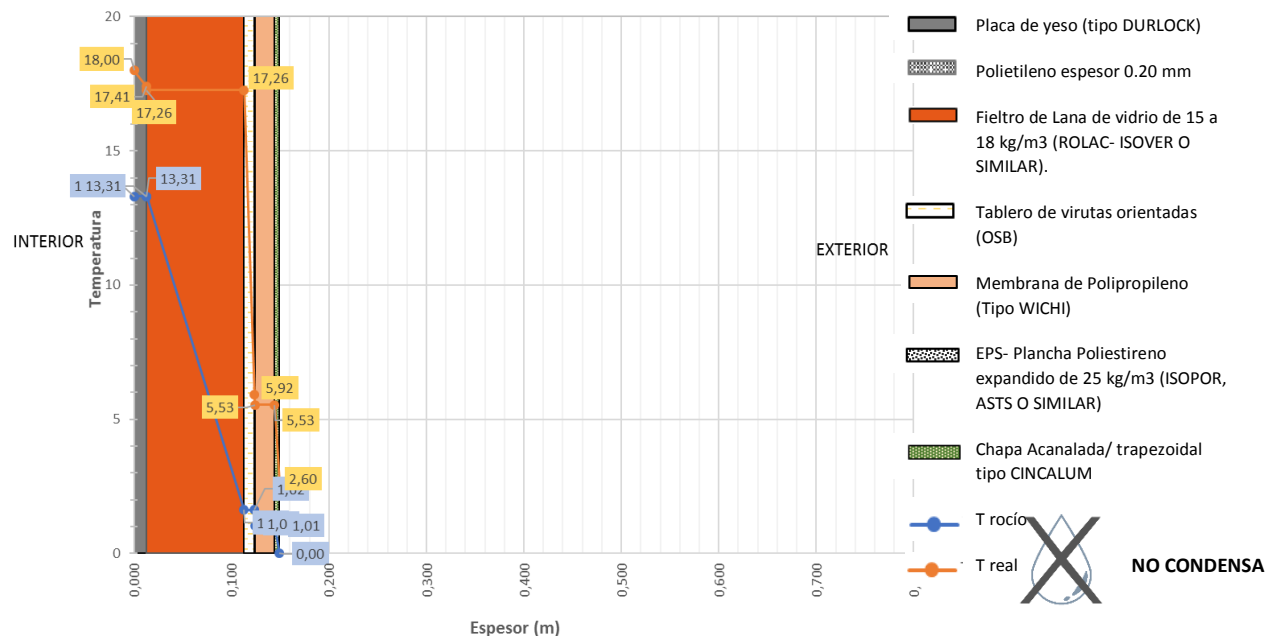
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,29 | 0,29 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



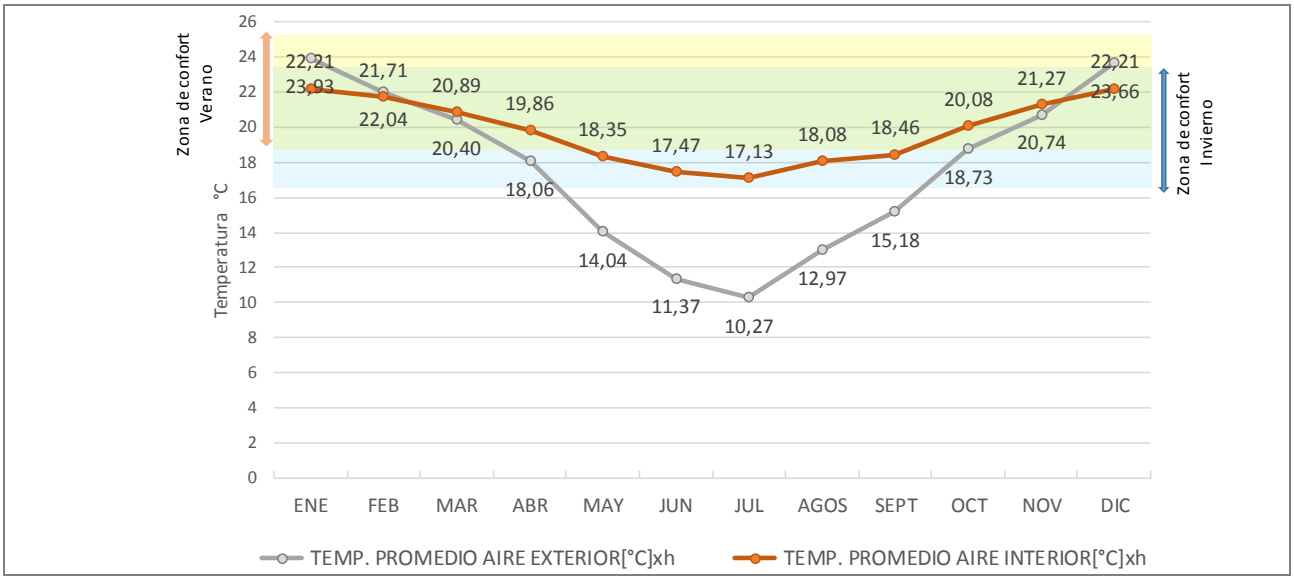

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,2 | 1,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,6** | **6,0** |
| | **Amortiguamiento:** | 0,088 | 0,108 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,2** | **4,6** |
| | **Amortiguamiento:** | 0,198 | 0,302 |

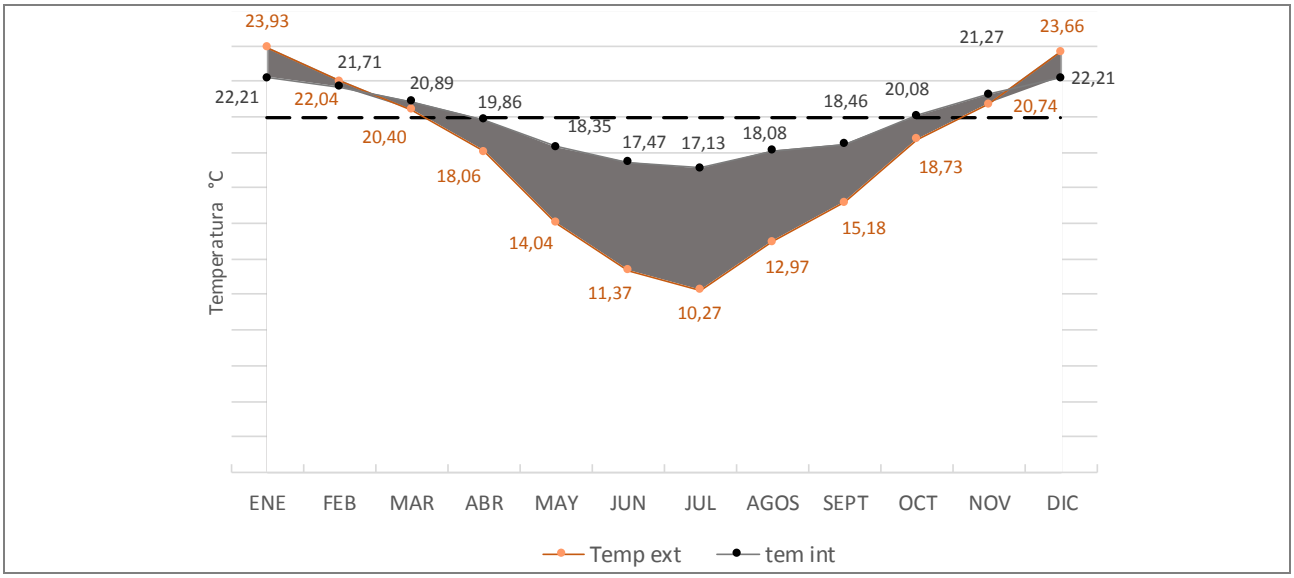
| STL-039 | MU | STEEL FRAME |
|---|---|---|

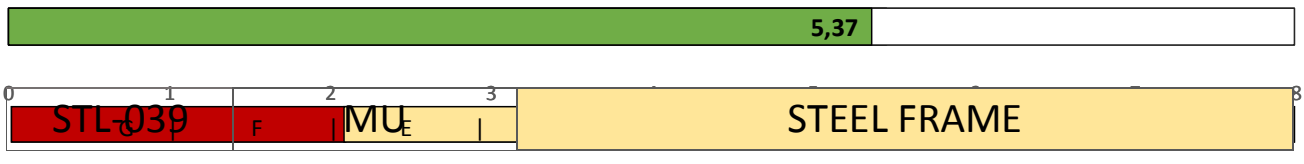
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,04** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,46** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS

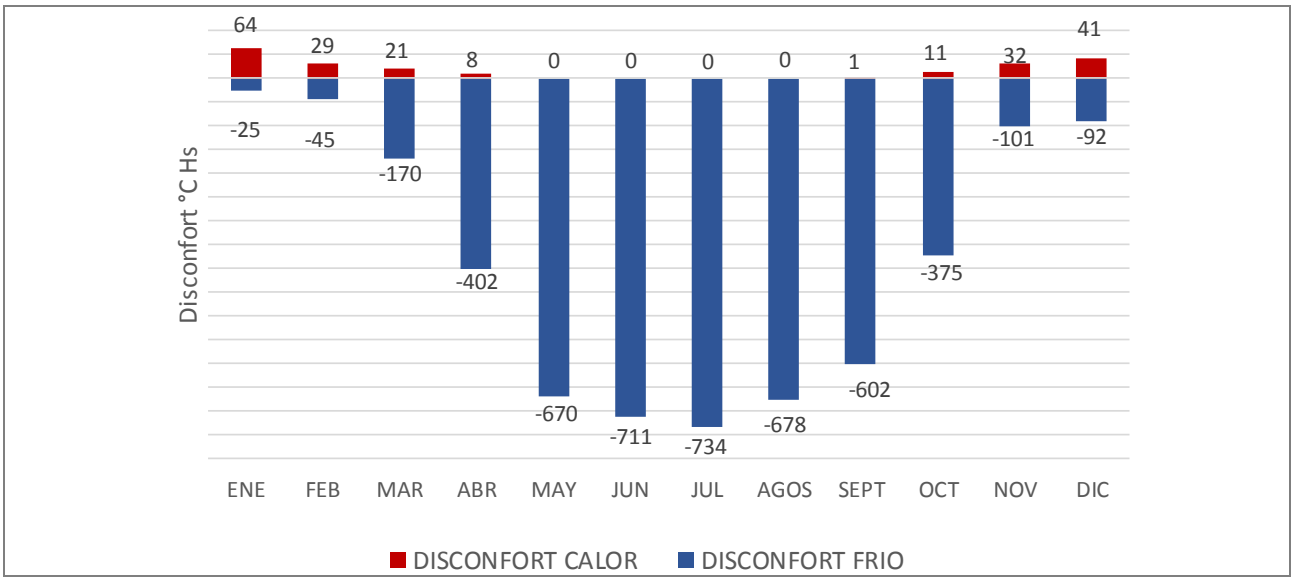



5,37 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

## DISCONFORT HIGROTERMICO - °C h

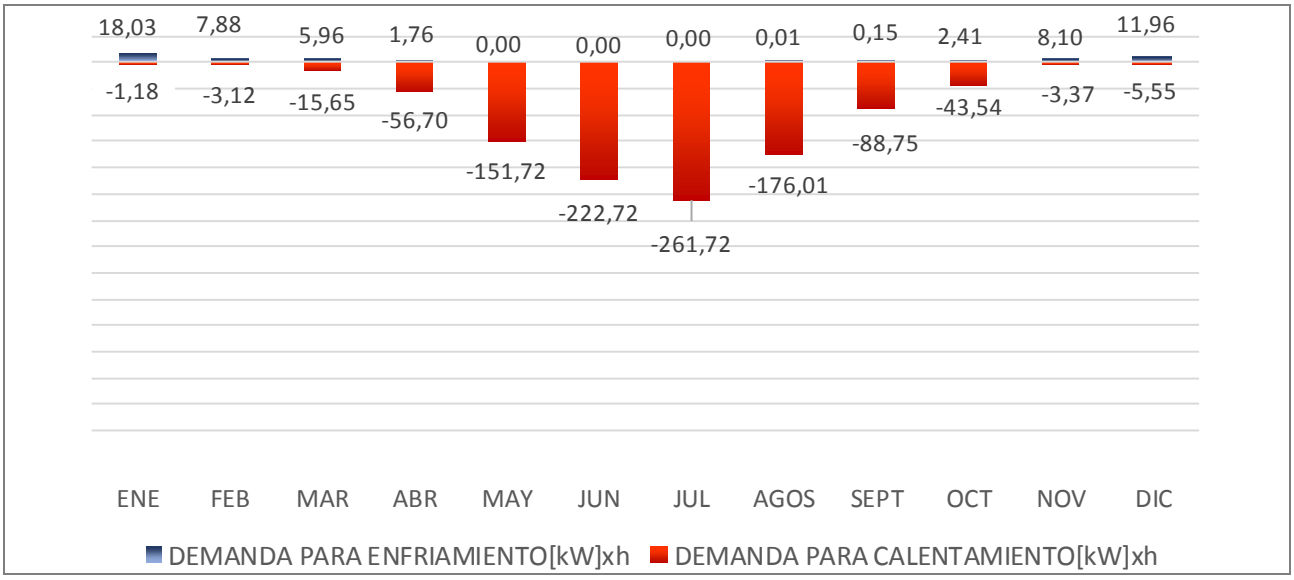
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **208** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.605** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.812** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

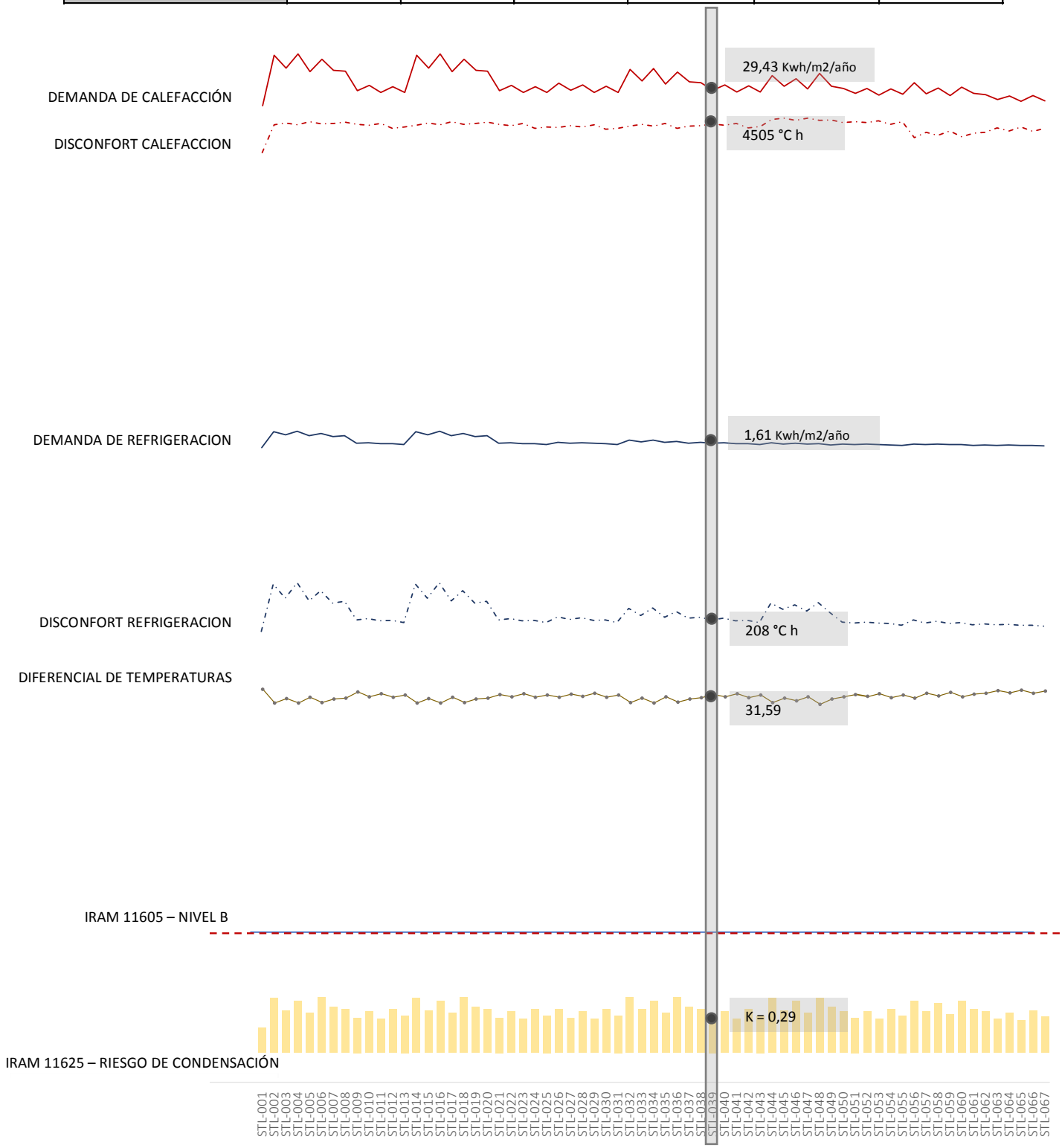



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **56,25** | kWh | 1,61 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.030,01** | kWh | 29,43 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.086,27** | kWh | **31,04** | kWh/m2/año |

| STL-039 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 016 | N° 033 | N° 047 | N° 125 | N° 163 | N° 108 |



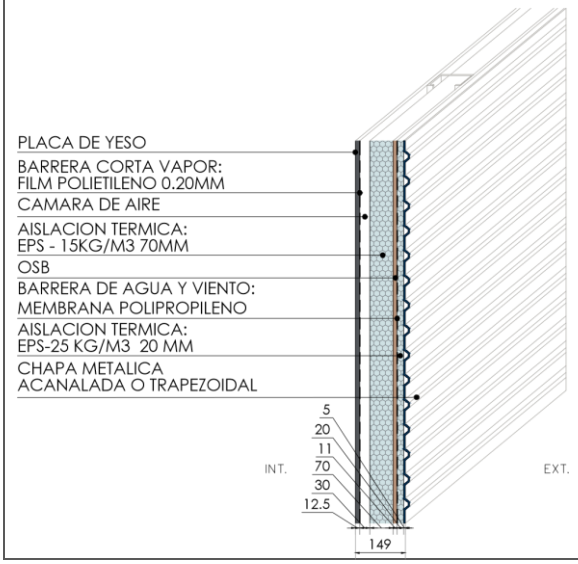

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,29 | 0% | 31,59 | 29,43 | 1,61 | 4605 | 208 |
| INC. FAMILIA | 82,12% | 0% | 100,87% | 92,37% | 64,30% | 100,24% | 73,90% |
| INC. MUNDIAL | 24,38% | 0% | 102,52% | 71,56% | 26,83% | 103,21% | 40,69% |

| STL-040 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3/ EPS 20MM- DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR

## INDICE DE TRANSMITANCIA TERMICA "K"

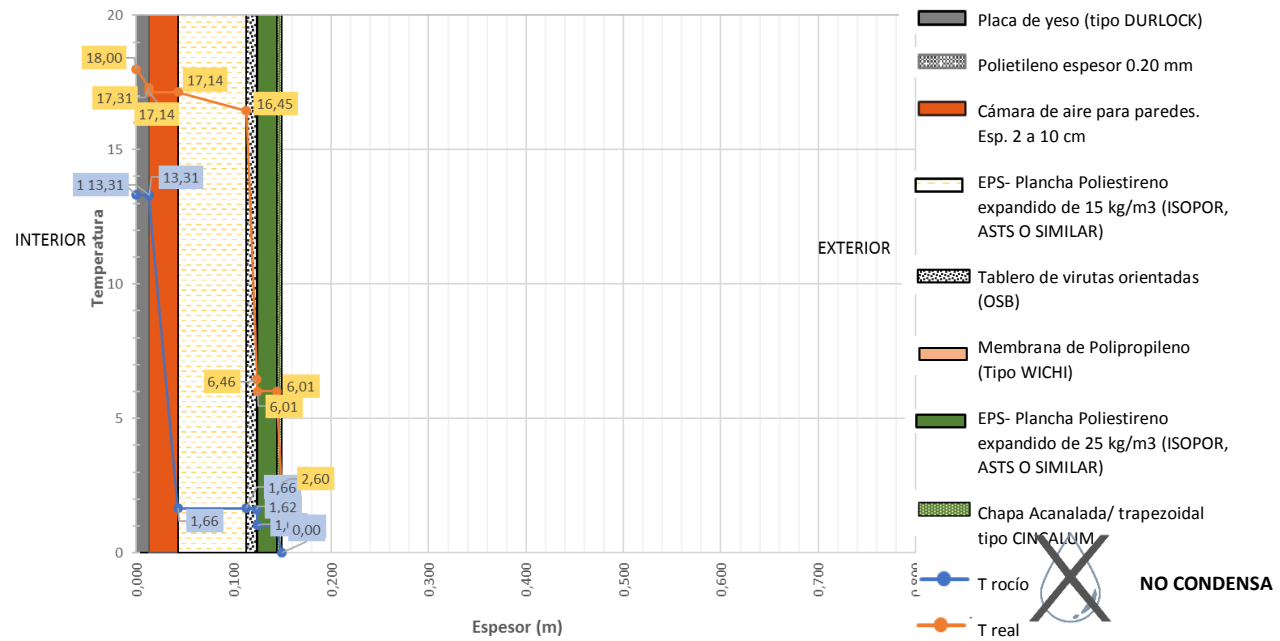
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,34 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



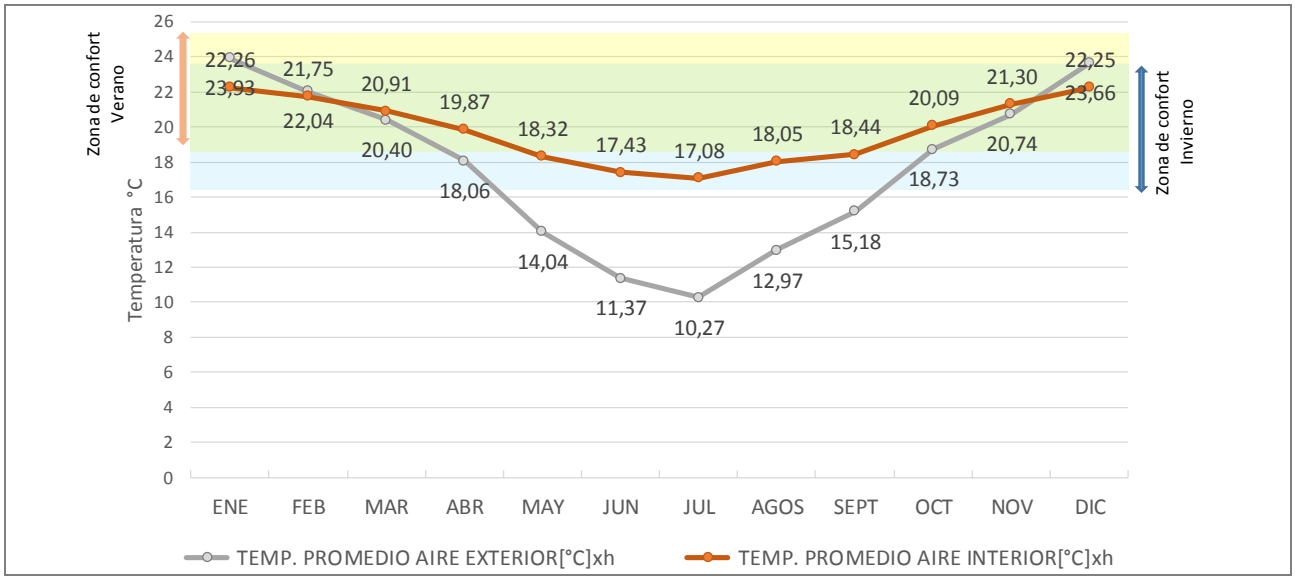

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 2,6 | Invierno 2,1 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,1** | **5,6** |
| | **Amortiguamiento:** | 0,106 | 0,128 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,7** | **4,3** |
| | **Amortiguamiento:** | 0,224 | 0,326 |

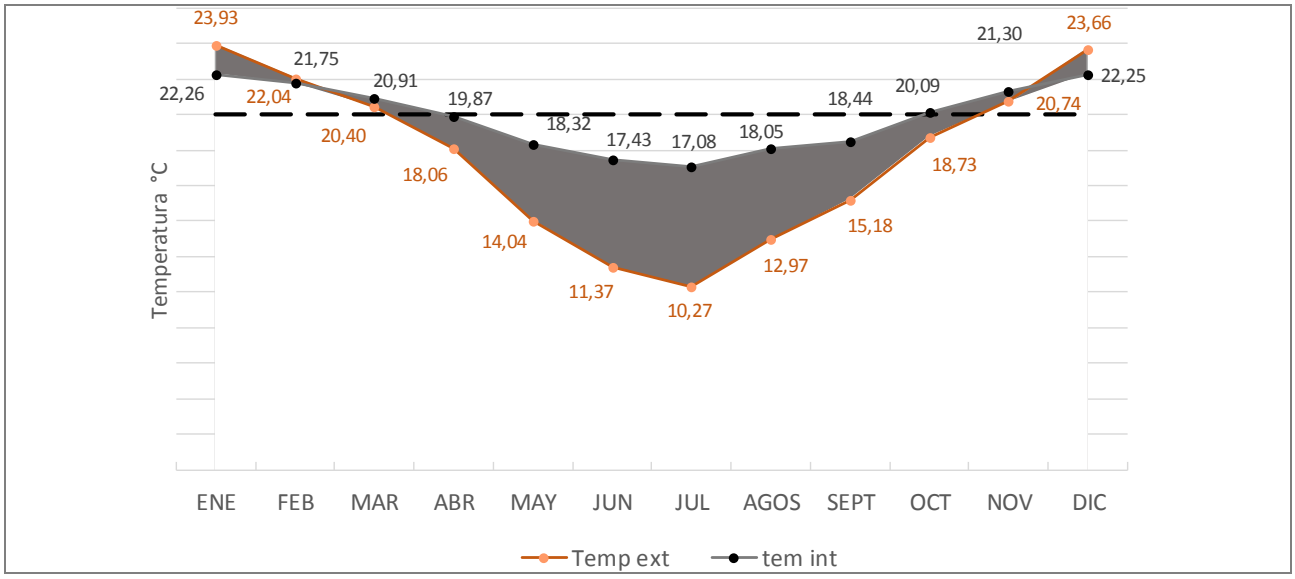
| STL-040 | MU | STEEL FRAME |
|---|---|---|

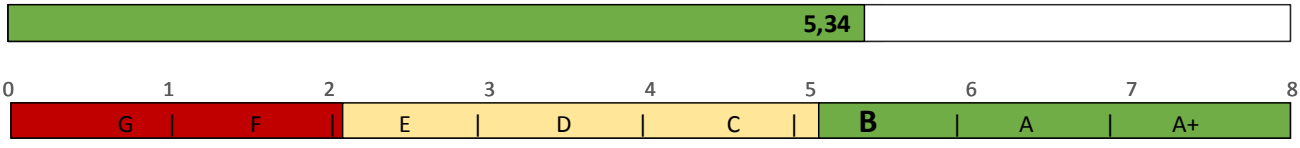
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,19** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,30** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



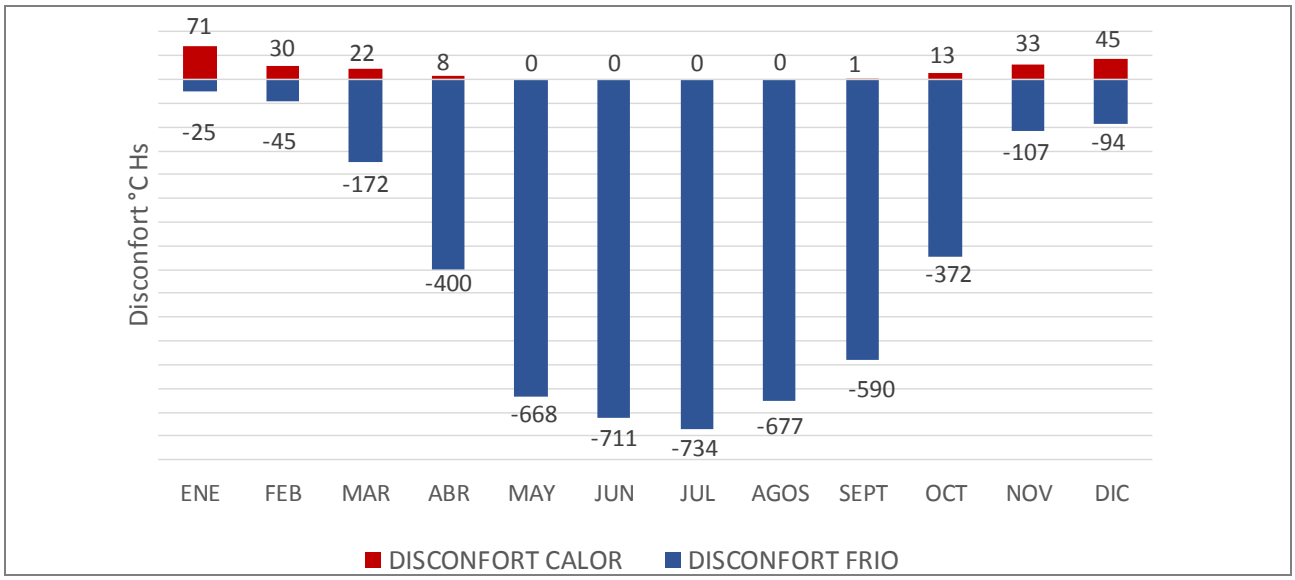




5.34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.67

| STL-040 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

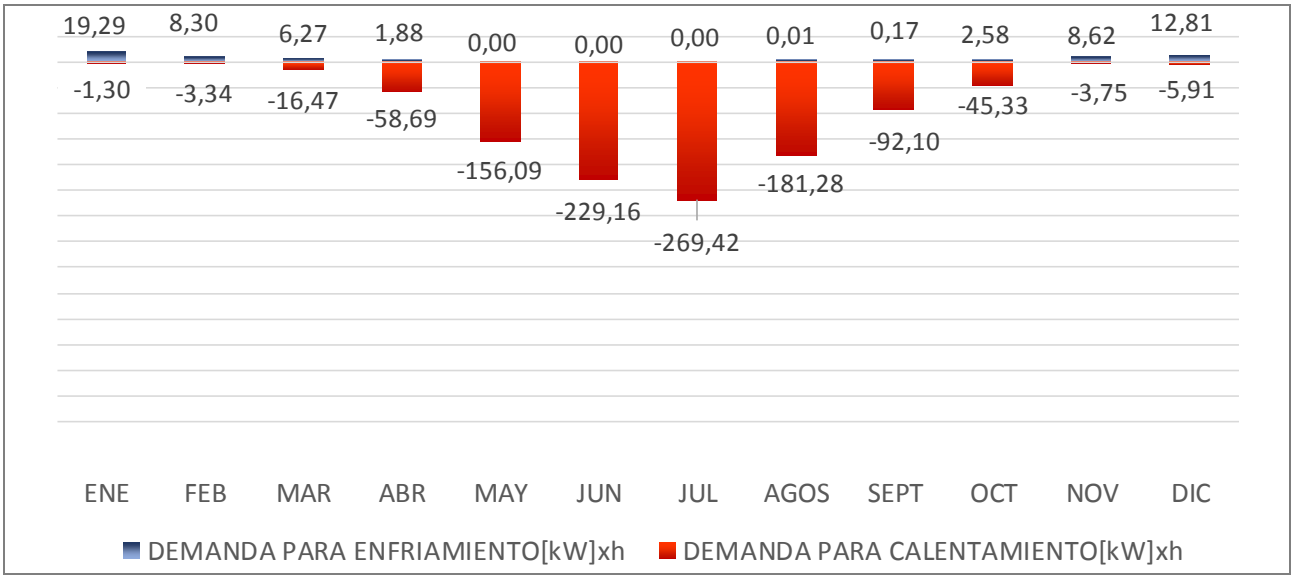
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **222** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.596** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.818** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

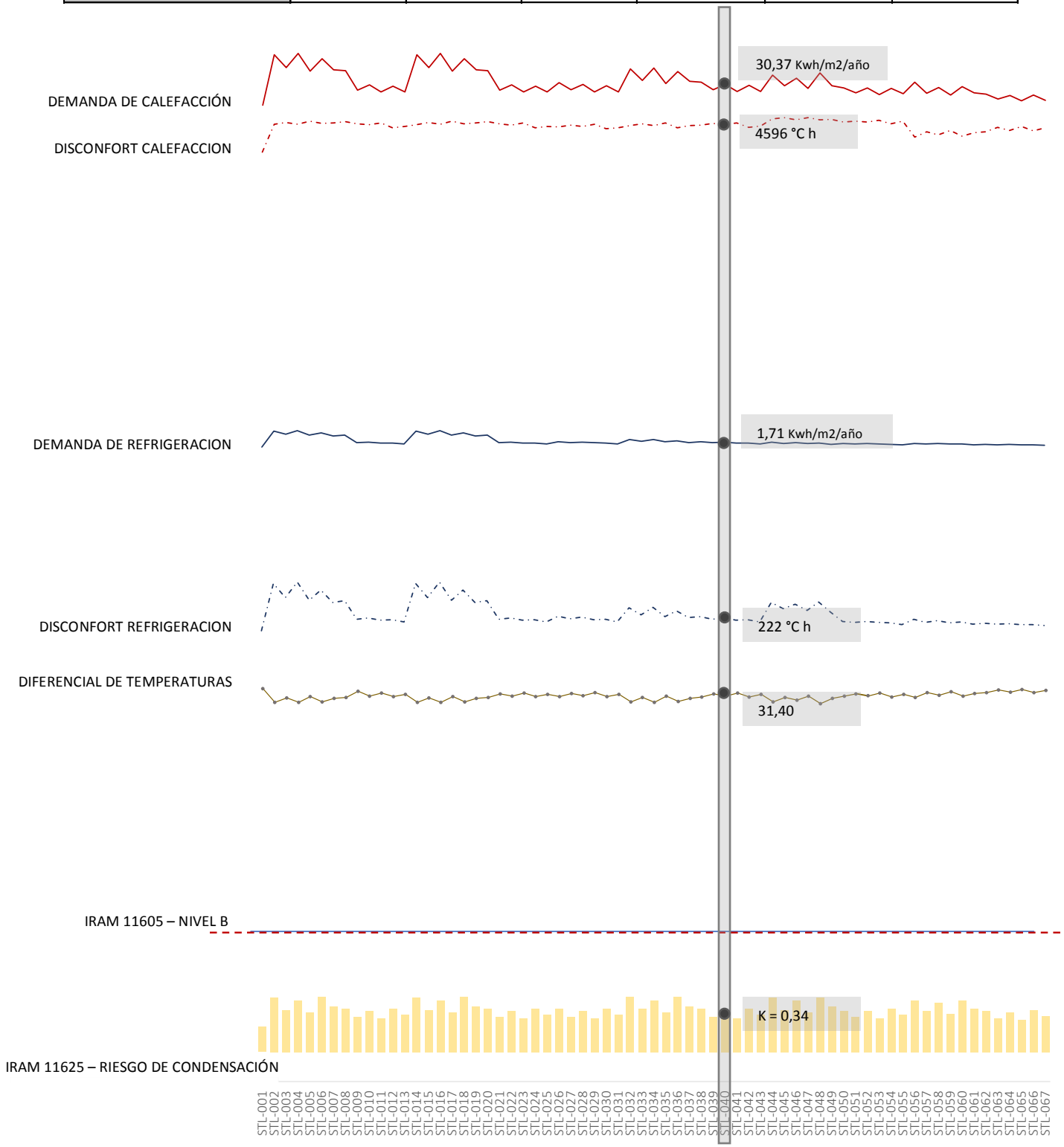



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **59,93** | kWh | 1,17 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.062,85** | kWh | 30,37 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.122,77** | kWh | **32,08** | kWh/m2/año |

| STL-040 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 040 | N° 050 | N° 083 | N° 136 | N° 151 | N° 116 |



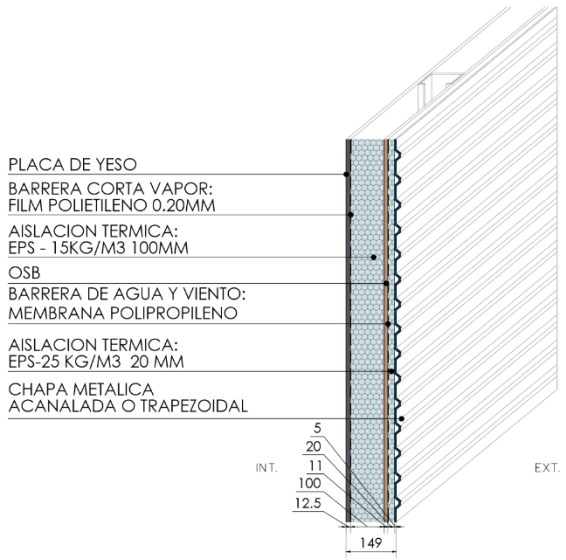

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,34 | 0% | 31,4 | 30,37 | 1,71 | 4596 | 222 |
| INC. FAMILIA | 96,28% | 0% | 100,26% | 95,32% | 68,29% | 100,04% | 78,87% |
| INC. MUNDIAL | 28,59% | 0% | 101,90% | 73,85% | 28,49% | 103,01% | 43,43% |

| STL-041 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG , HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

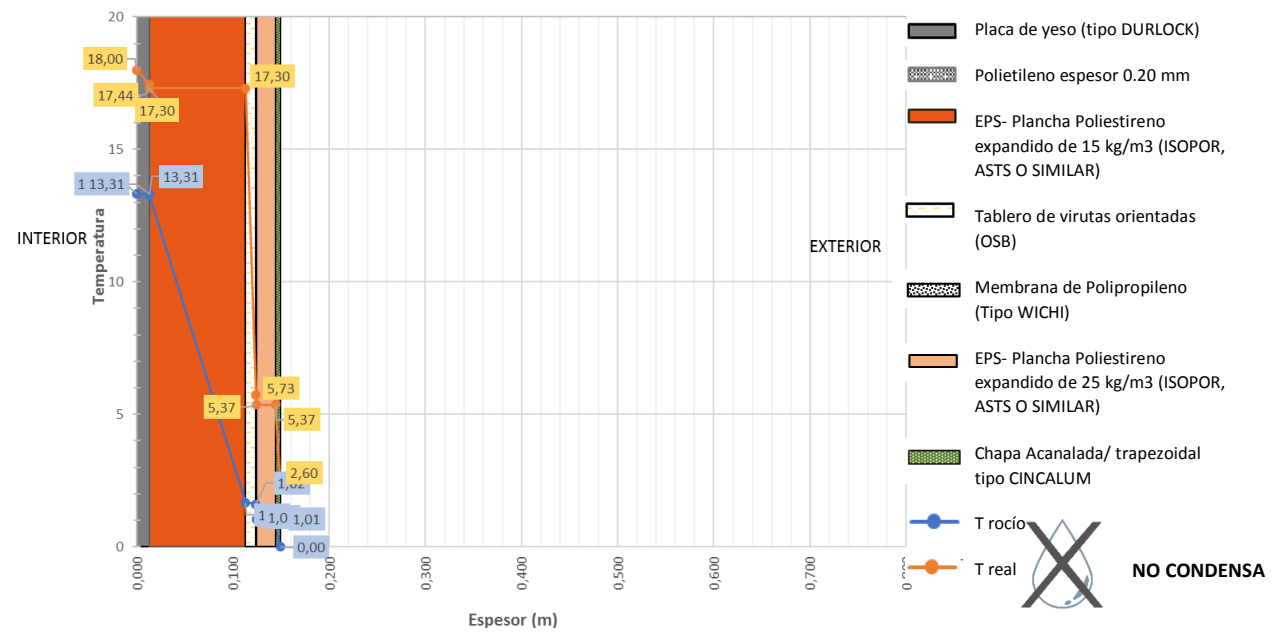
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,28 | 0,28 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



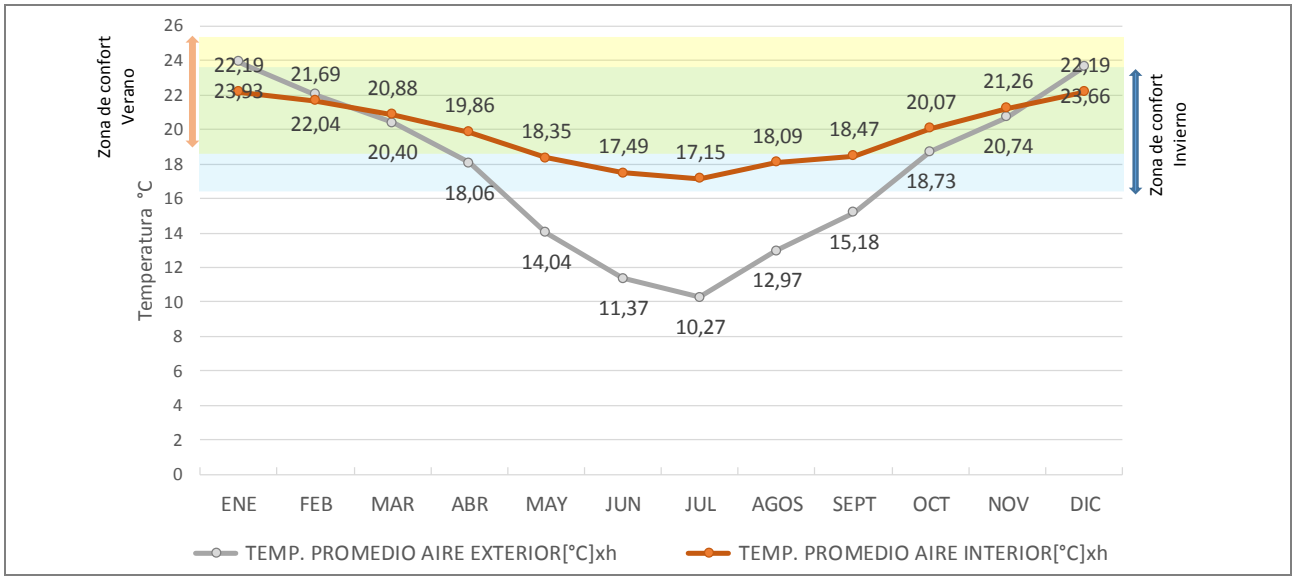

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,0 | 1,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,8** | **6,2** |
| | **Amortiguamiento:** | 0,082 | 0,101 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,4** | **4,7** |
| | **Amortiguamiento:** | 0,188 | 0,293 |

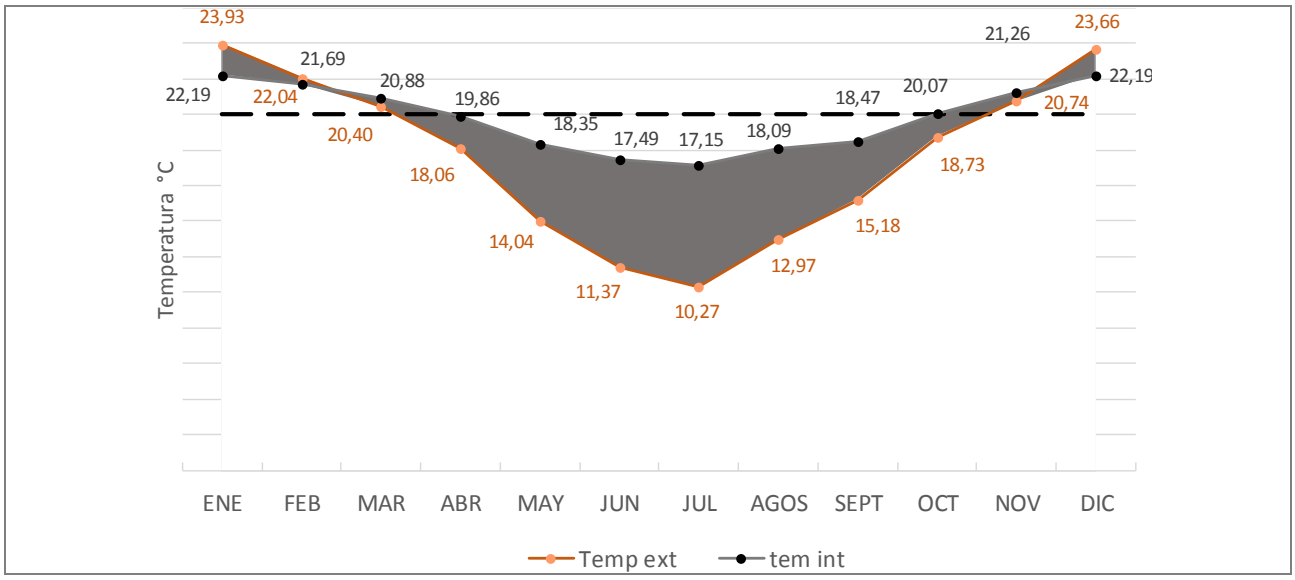
| STL-041 | MU | STEEL FRAME |
|---|---|---|

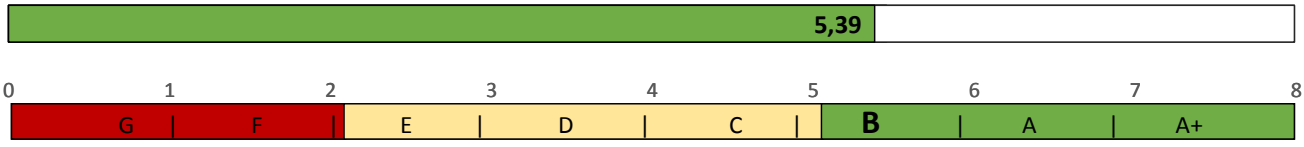
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,99** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **14,52** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



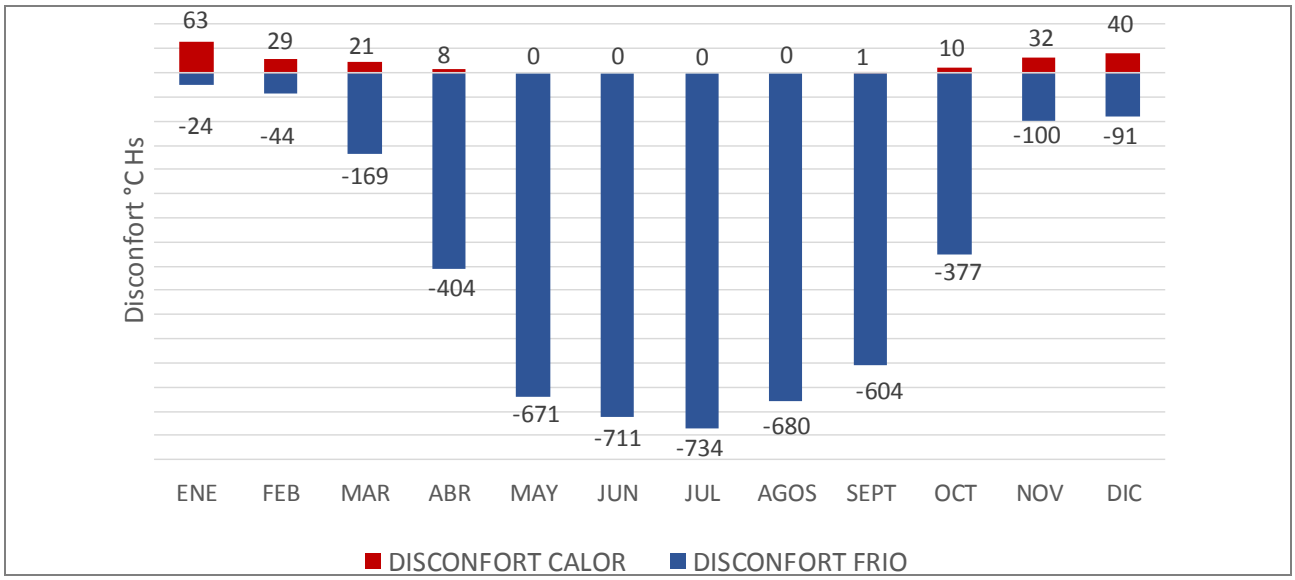




5,39 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-041 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

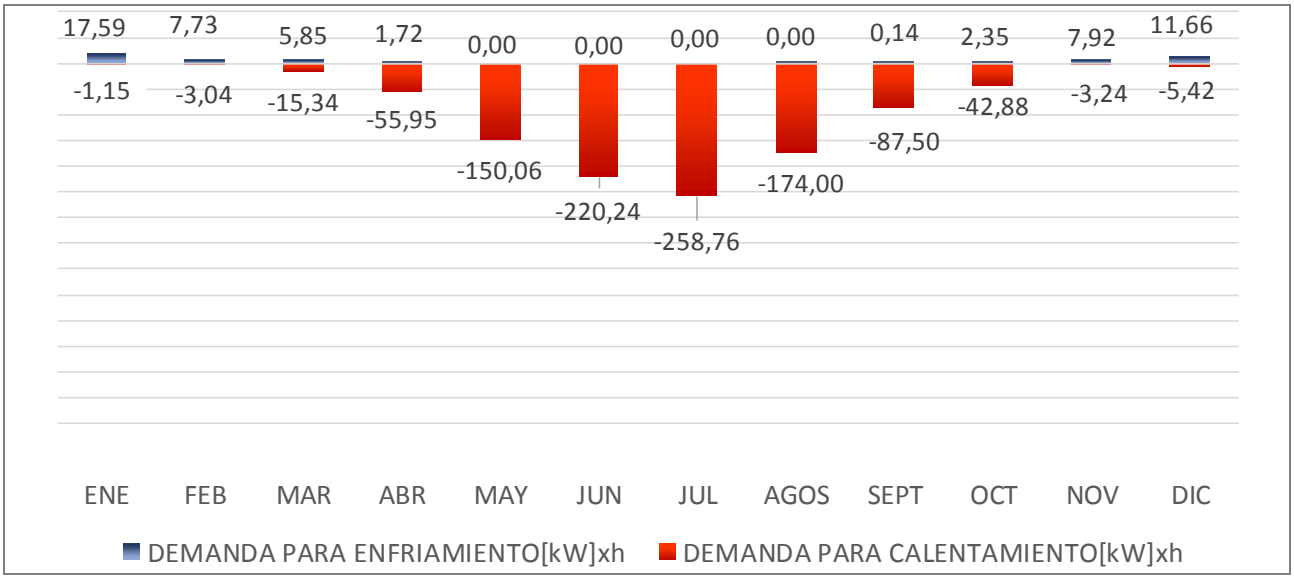
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **204** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.609** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.813** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

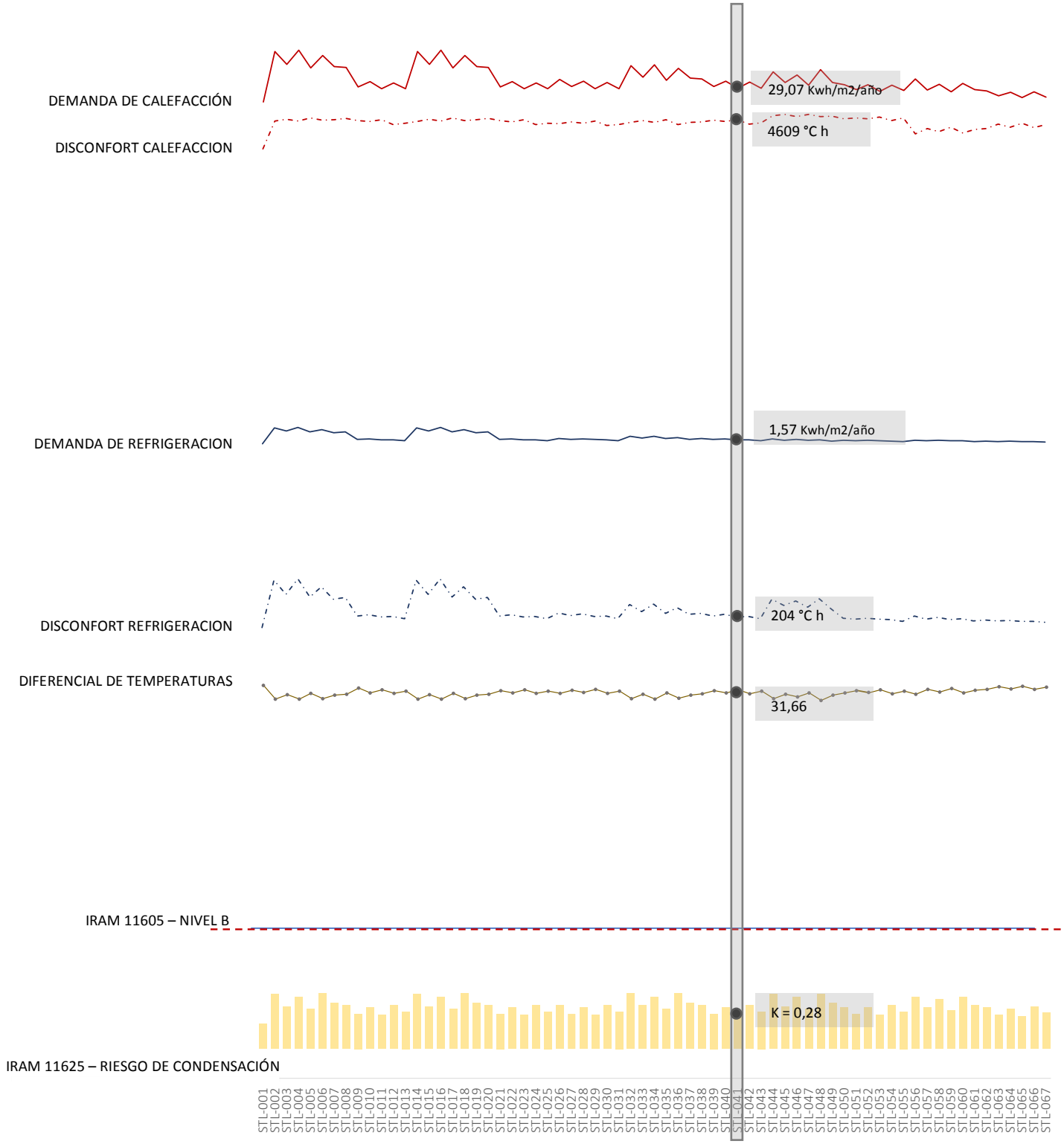



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **54,97** | kWh | 1,57 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.017,59** | kWh | 29,07 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.072,56** | kWh | **30,64** | kWh/m2/año |

| STL-041 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 010 | N° 026 | N° 033 | N° 114 | N° 169 | N° 098 |



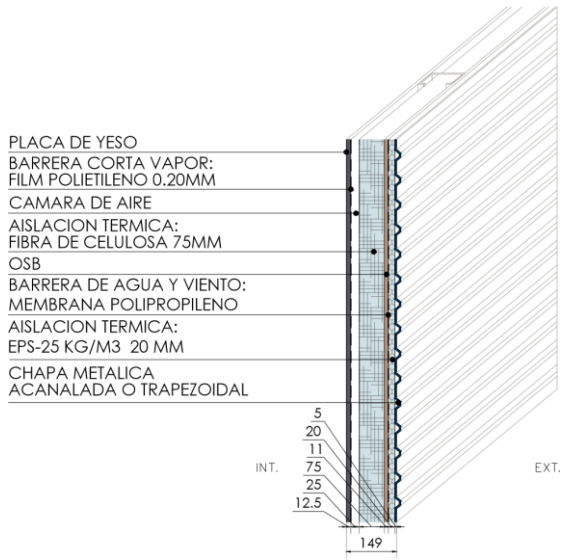

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,28 | 0% | 31,66 | 29,07 | 1,57 | 4609 | 204 |
| INC. FAMILIA | 79,29% | 0% | 101,09% | 91,24% | 62,70% | 100,32% | 72,47% |
| INC. MUNDIAL | 23,54% | 0% | 102,75% | 70,69% | 26,16% | 103,30% | 39,91% |

| STL-042 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

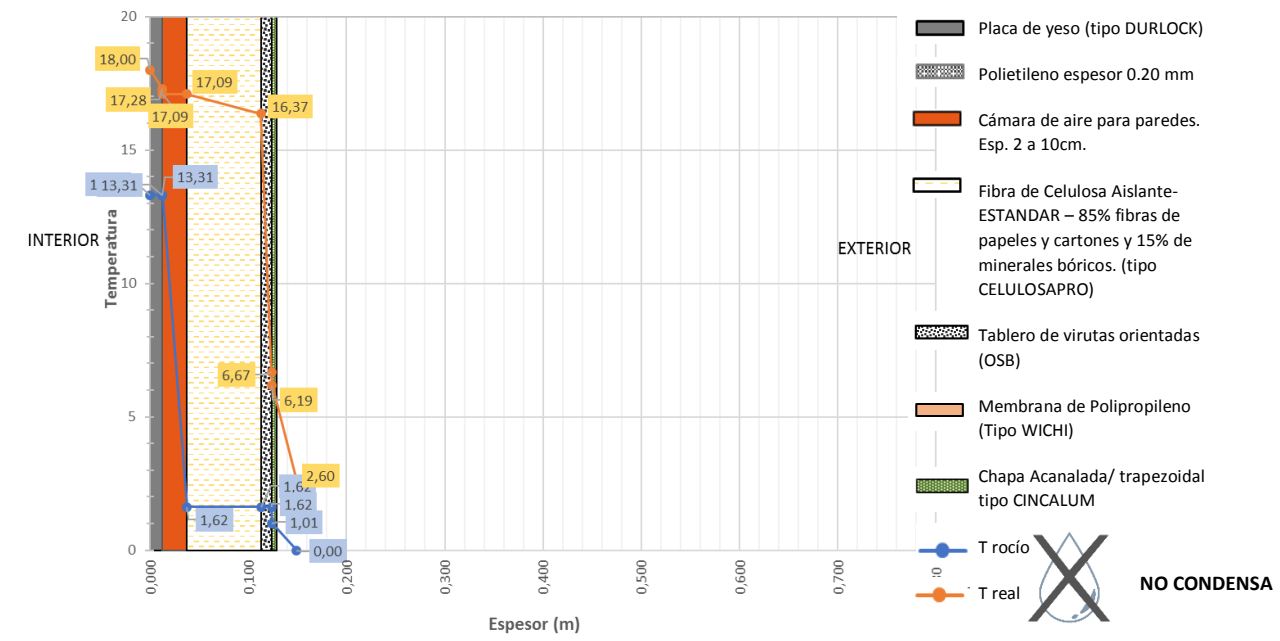
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



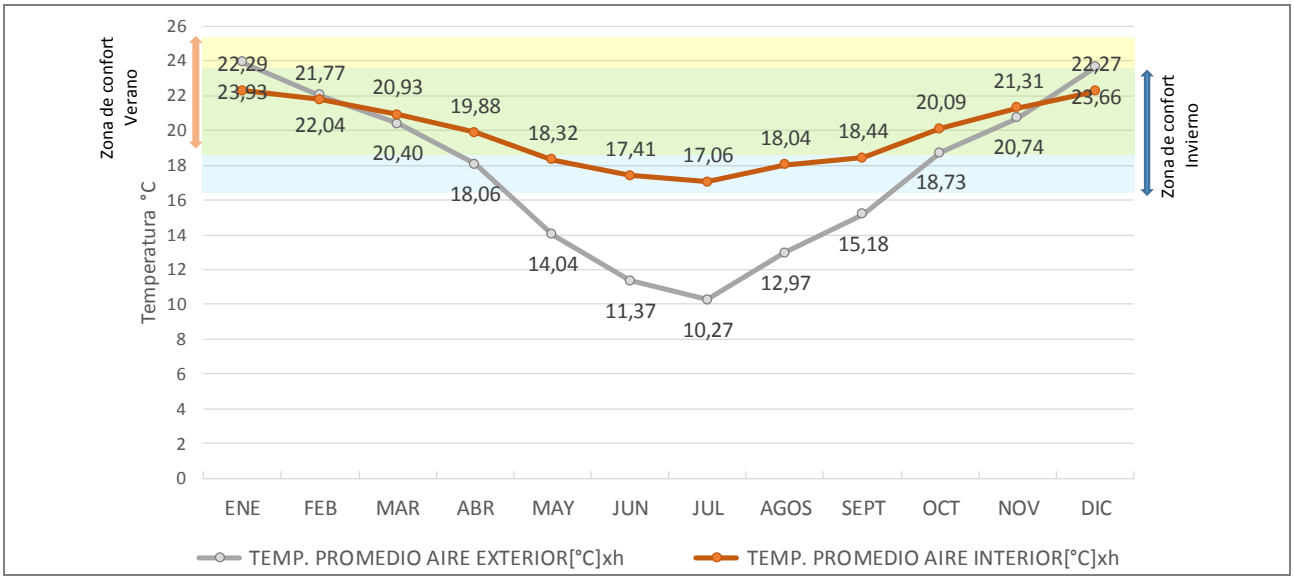

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,9 | 3,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,1** | **6,7** |
| | **Amortiguamiento:** | 0,072 | 0,084 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,1** | **5,1** |
| | **Amortiguamiento:** | 0,203 | 0,261 |

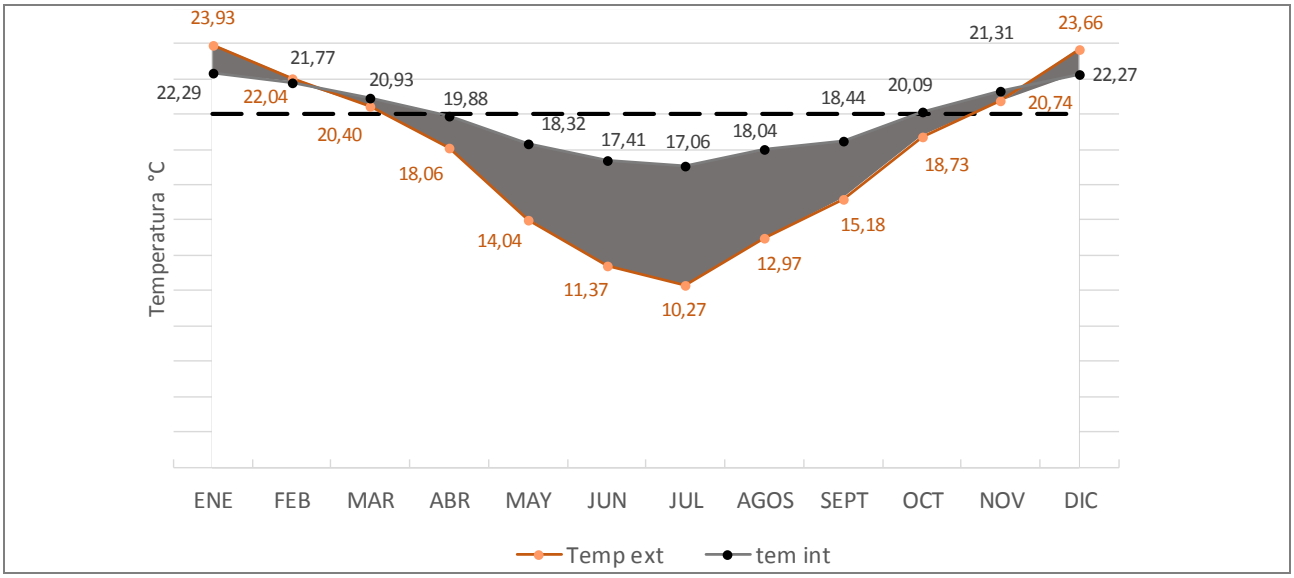
| STL-042 | MU | STEEL FRAME |
|---|---|---|

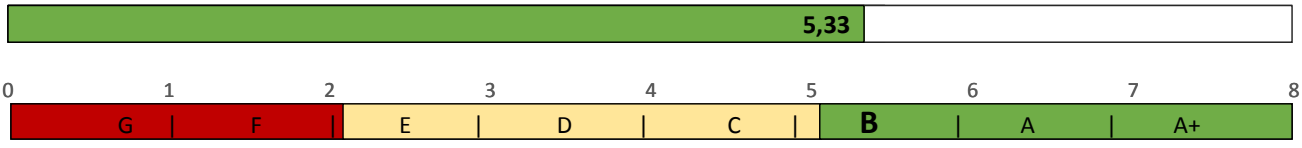
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/152 18:00 hs | **25,00** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,40** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



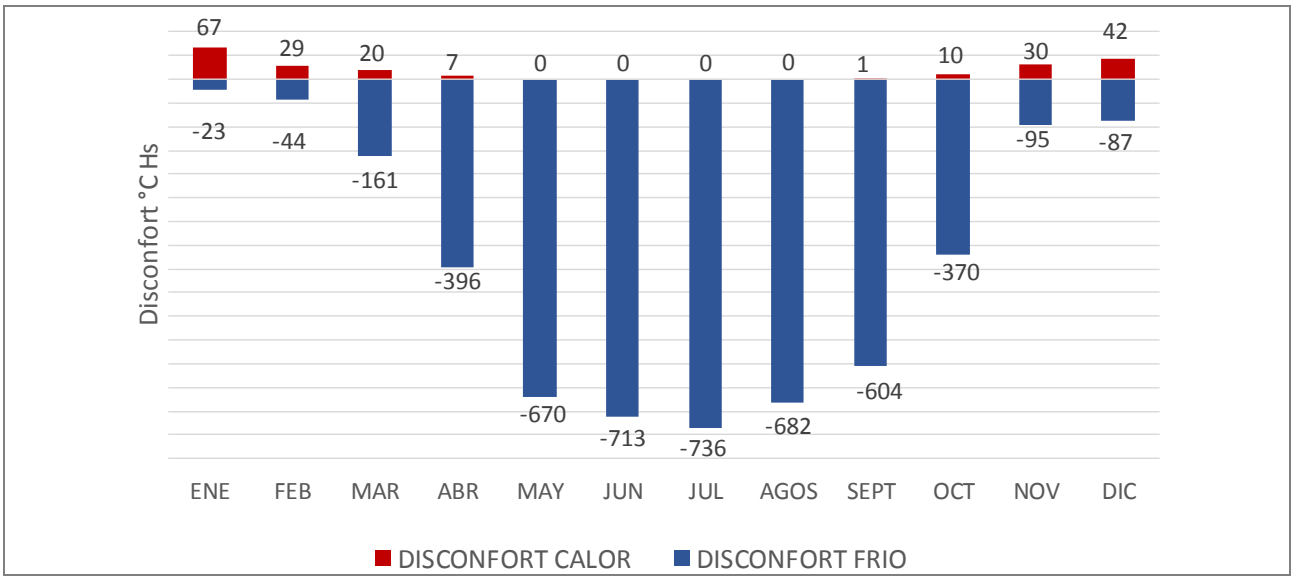




5,33 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-042 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

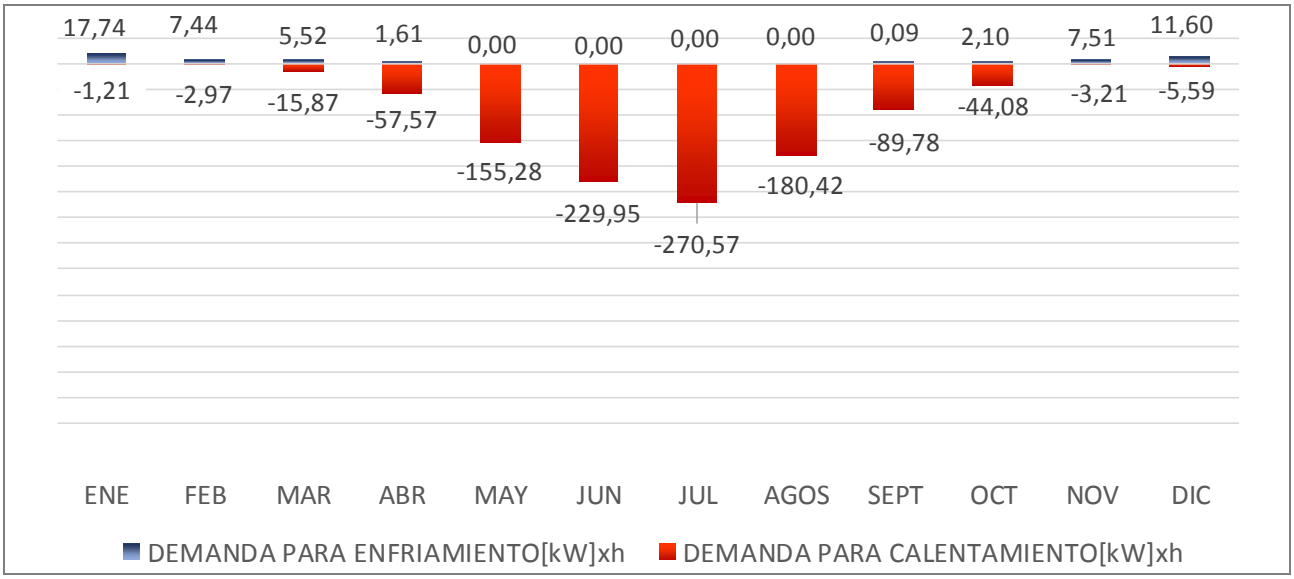
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **207** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.580** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.787** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

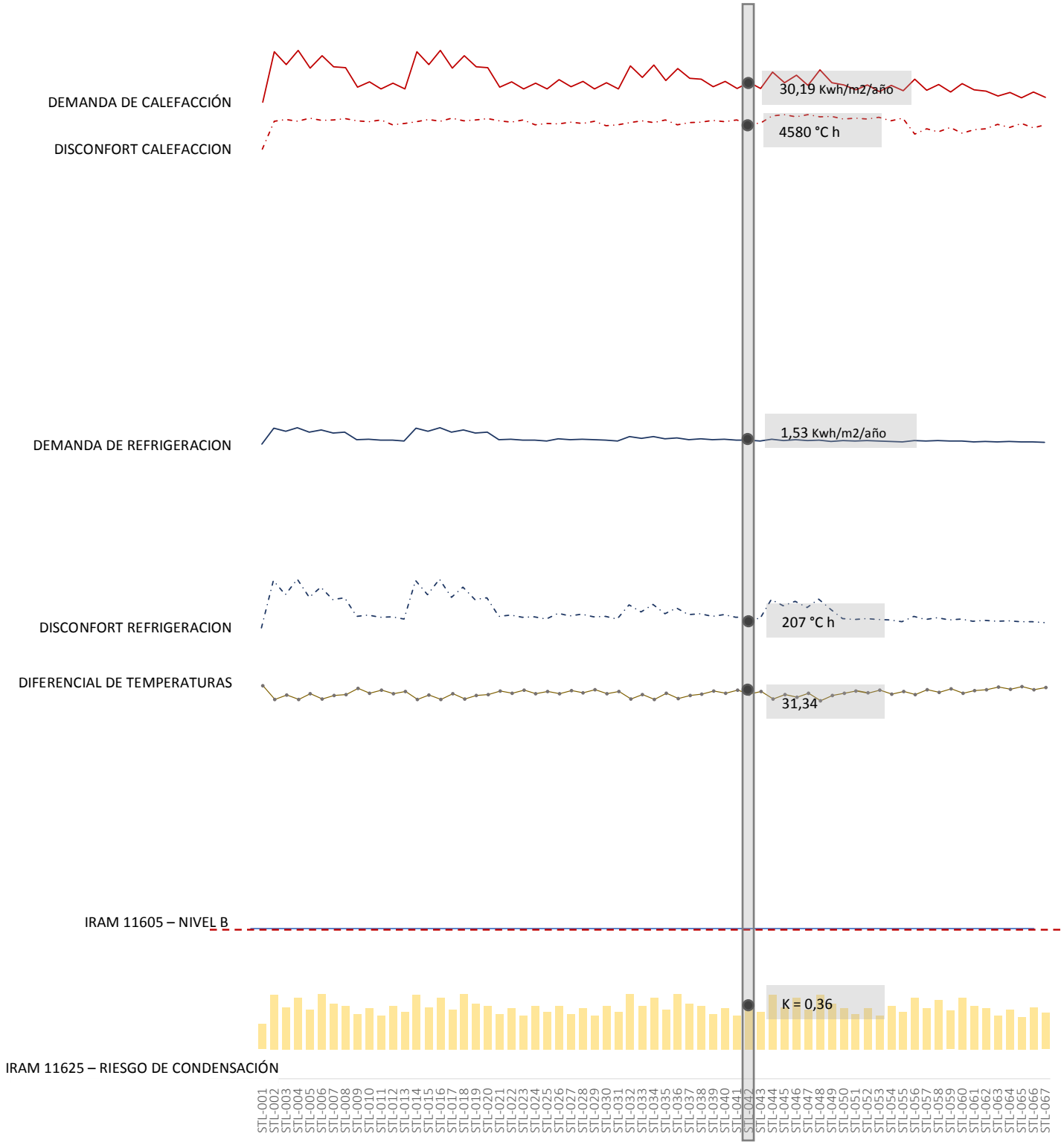



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **53,61** | kWh | 1,53 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.056,50** | kWh | 30,19 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.110,11** | kWh | **31,72** | kWh/m2/año |

| STL-042 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 058 | N° 064 | N° 075 | N° 109 | N° 134 | N° 105 |



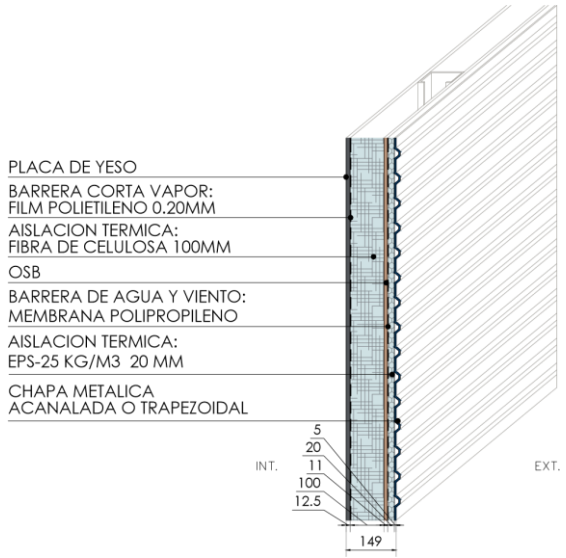

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,36 | 0% | 31,34 | 30,19 | 1,53 | 4580 | 207 |
| INC. FAMILIA | 101,94% | 0% | 100,07% | 94,75% | 61,11% | 99,69% | 73,54% |
| INC. MUNDIAL | 30,27% | 0% | 101,71% | 73,41% | 25,49% | 102,65% | 40,50% |

| STL-043 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR DE CHAPA DE ZINC E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

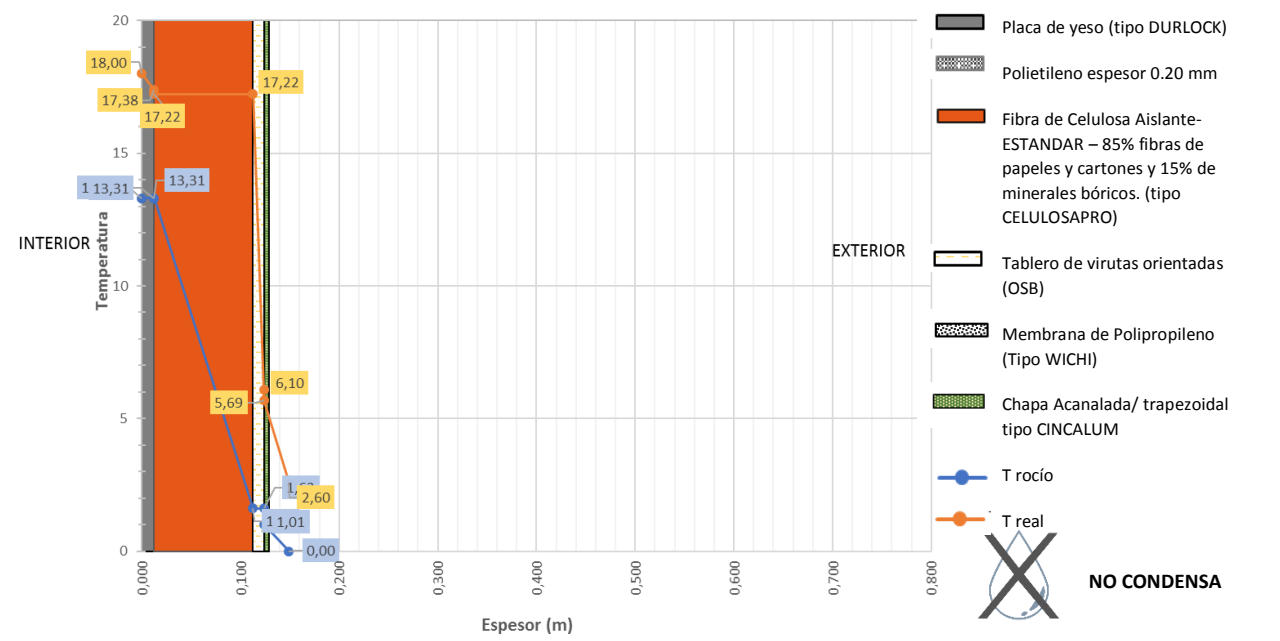
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,31 | 0,31 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



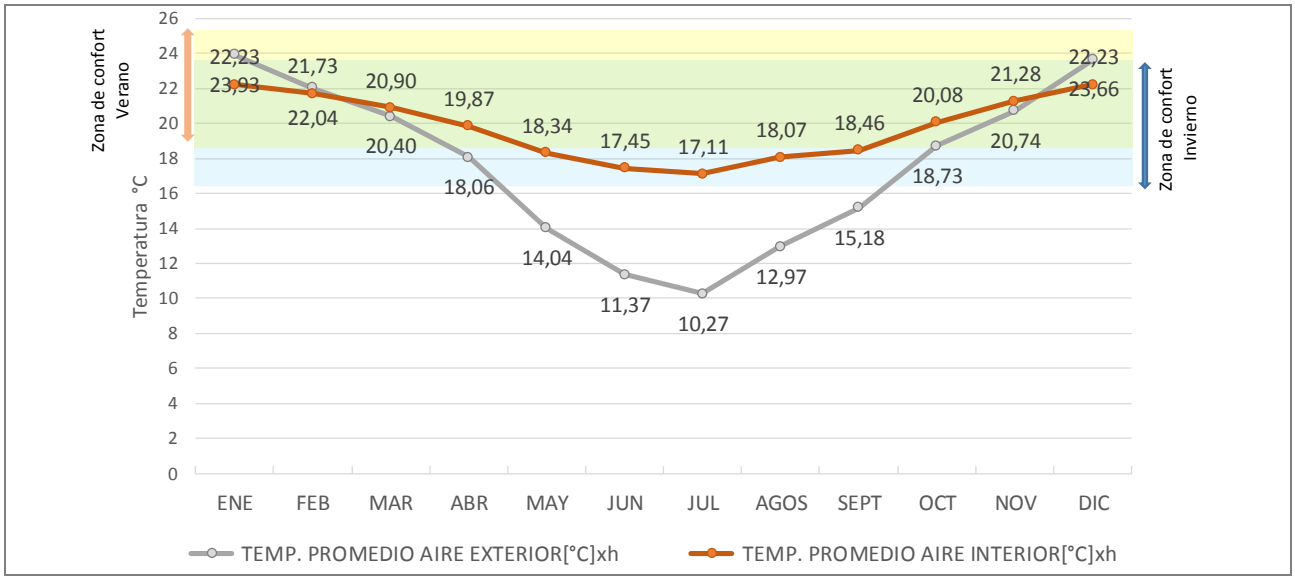

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,7 | 3,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,1** | **7,7** |
| | **Amortiguamiento:** | 0,050 | 0,059 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,8** | **5,8** |
| | **Amortiguamiento:** | 0,170 | 0,219 |

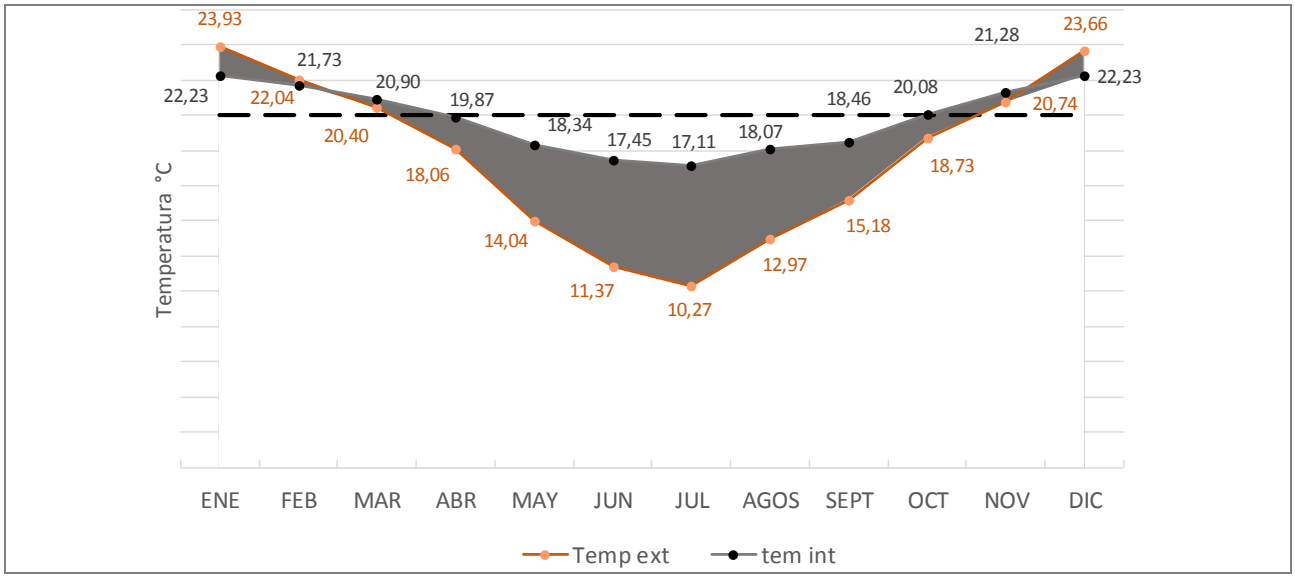
| STL-043 | MU | STEEL FRAME |
|---|---|---|

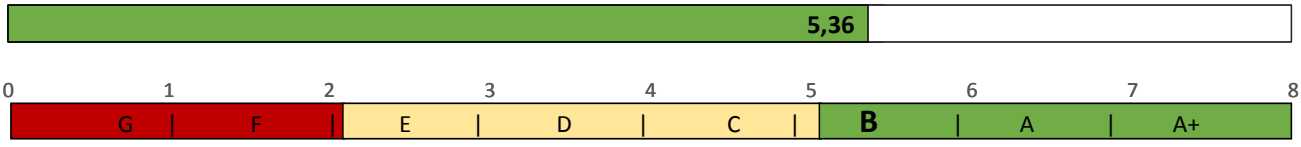
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,80** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,61** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



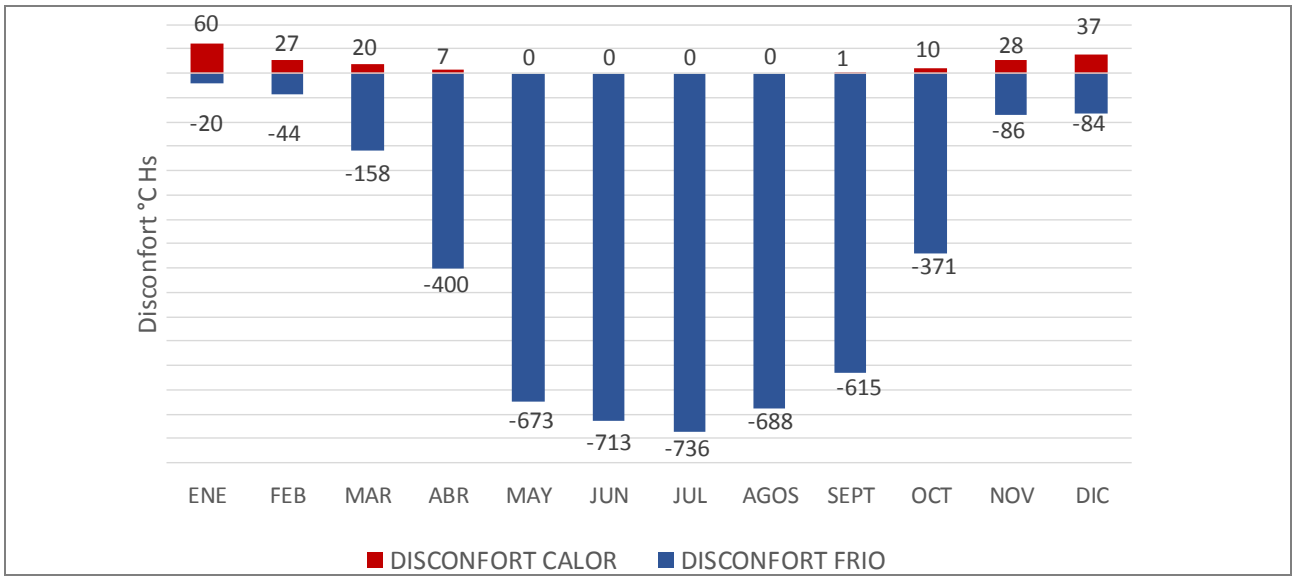




5,36 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-043 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

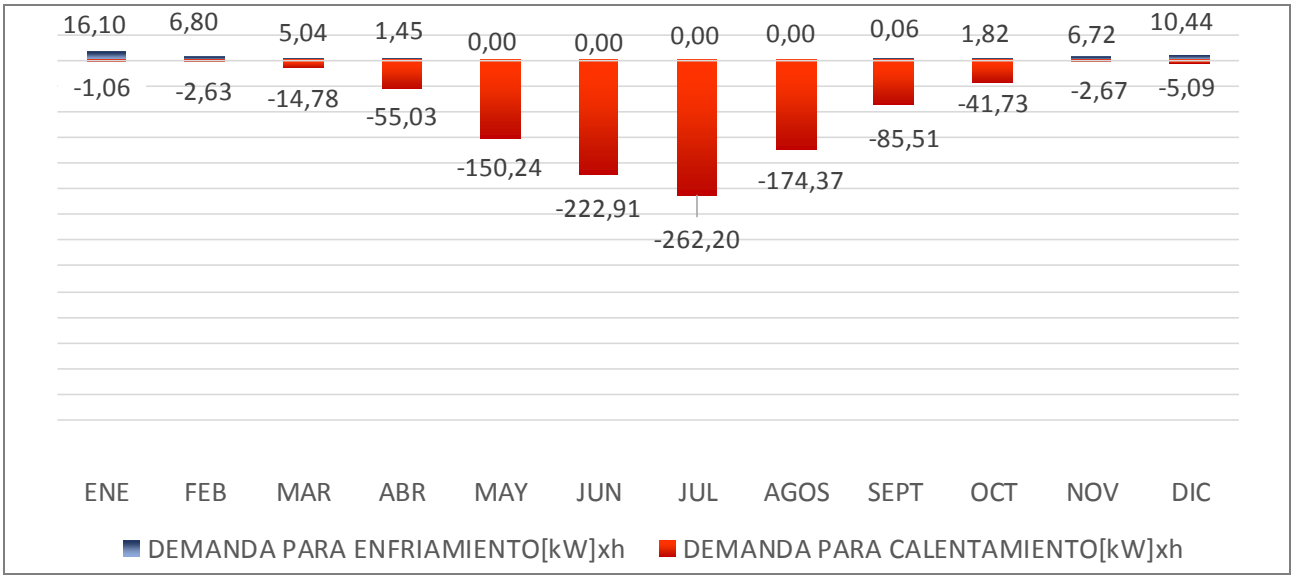
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **189** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.588** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.777** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

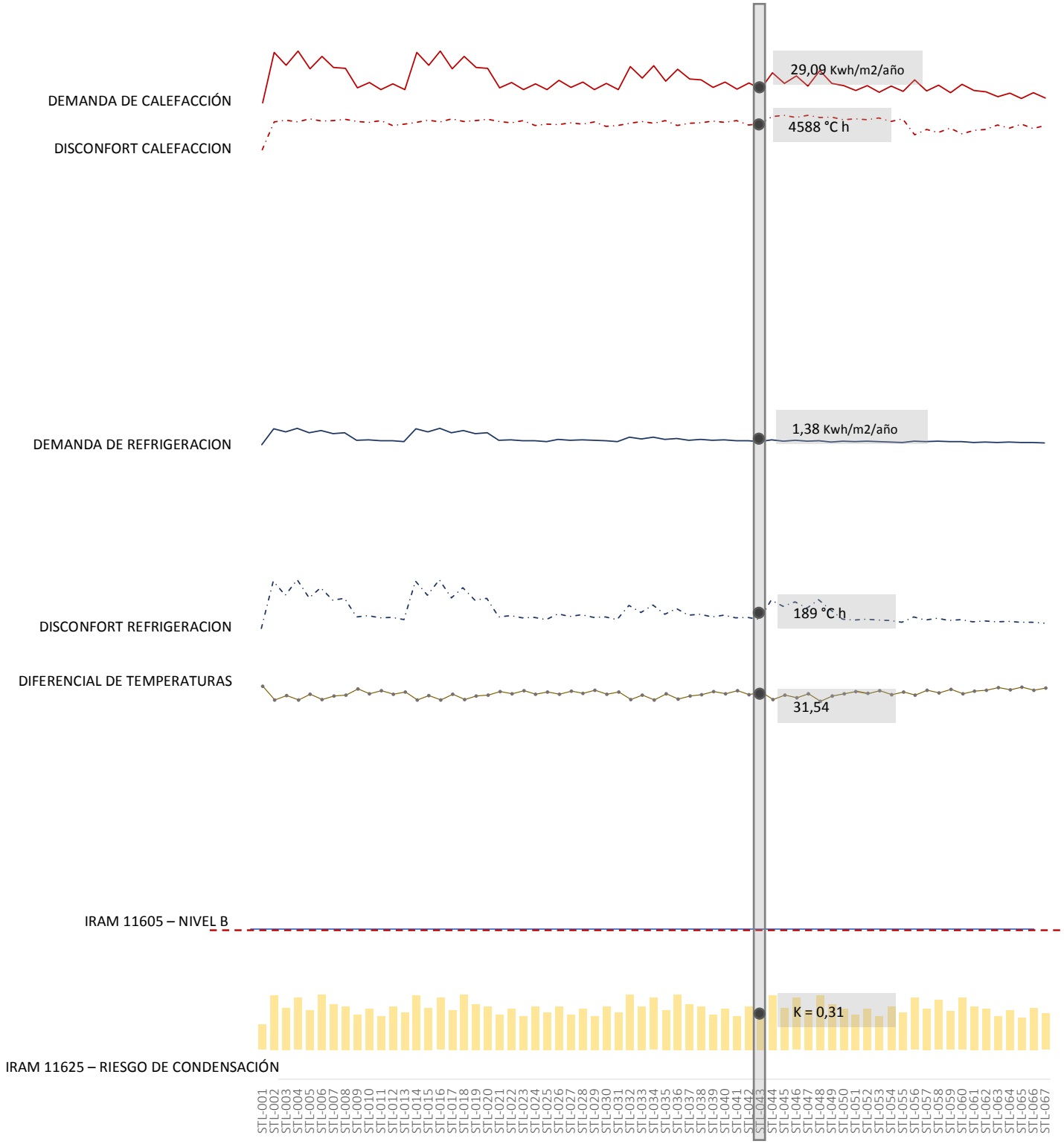



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **48,43** | kWh | 1,38 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.018,22** | kWh | 29,09 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.066,66** | kWh | **30,48** | kWh/m2/año |

| STL-043 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 023 | N° 037 | N° 034 | N° 087 | N° 143 | N° 073 |



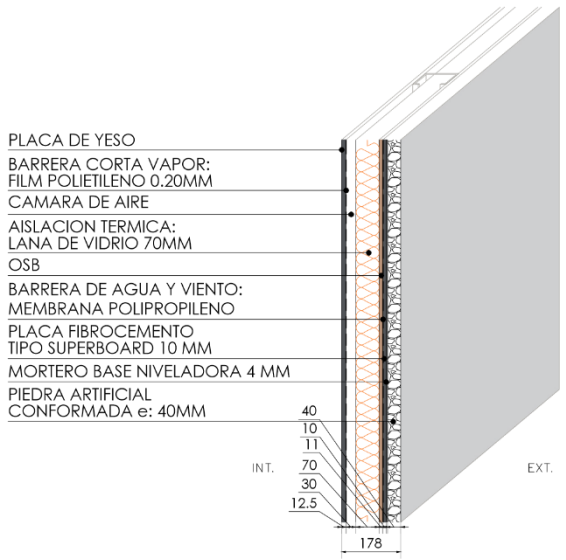

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,31 | | 31,54 | 29,09 | 1,38 | 4588 | 189 |
| INC. FAMILIA | 87,79% | 0% | 100,71% | 91,30% | 55,11% | 99,87% | 67,15% |
| INC. MUNDIAL | 26,06% | 0% | 102,36% | 70,73% | 22,99% | 102,83% | 36,98% |

| STL-044 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 70MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

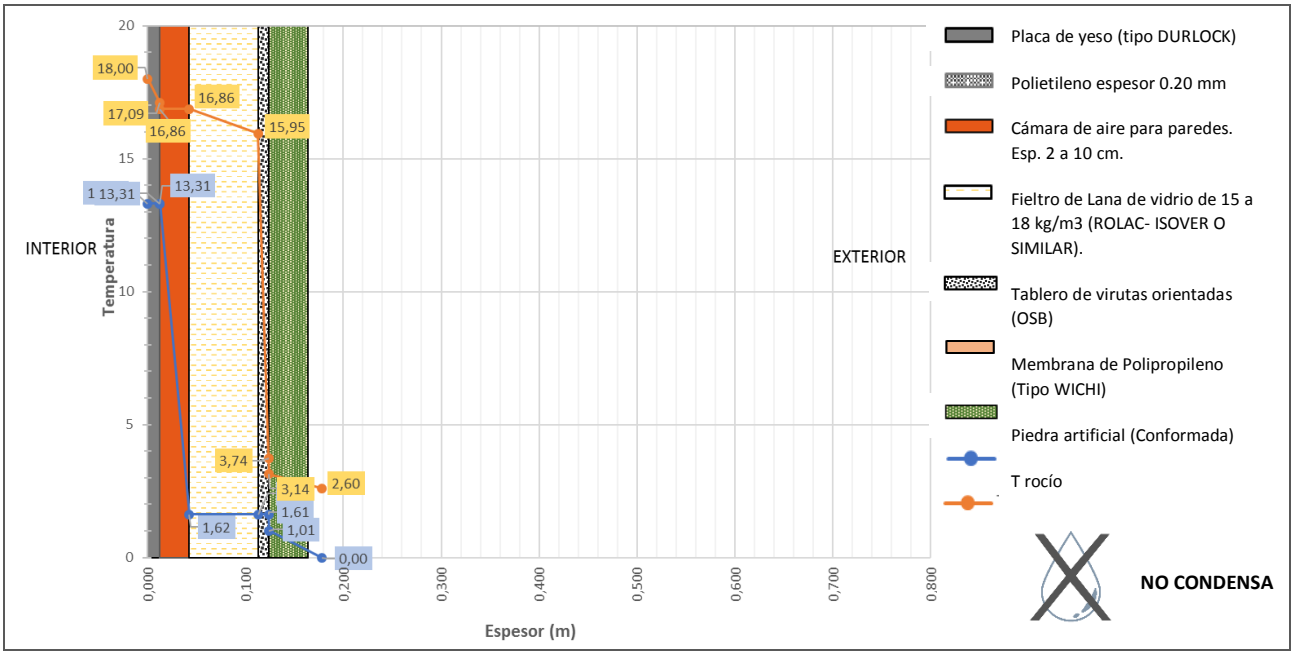
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,45 | 0,45 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



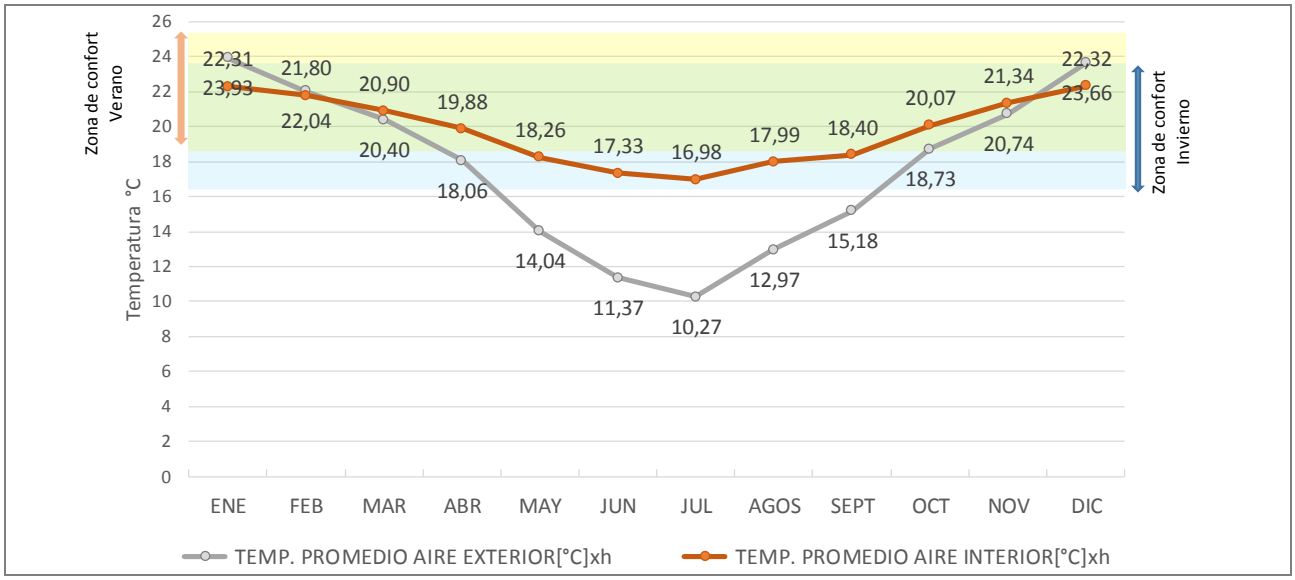

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 14,3 | 5,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **10,7** | **6,7** |
| | **Amortiguamiento:** | 0,019 | 0,084 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,5** | **3,7** |
| | **Amortiguamiento:** | 0,064 | 0,382 |

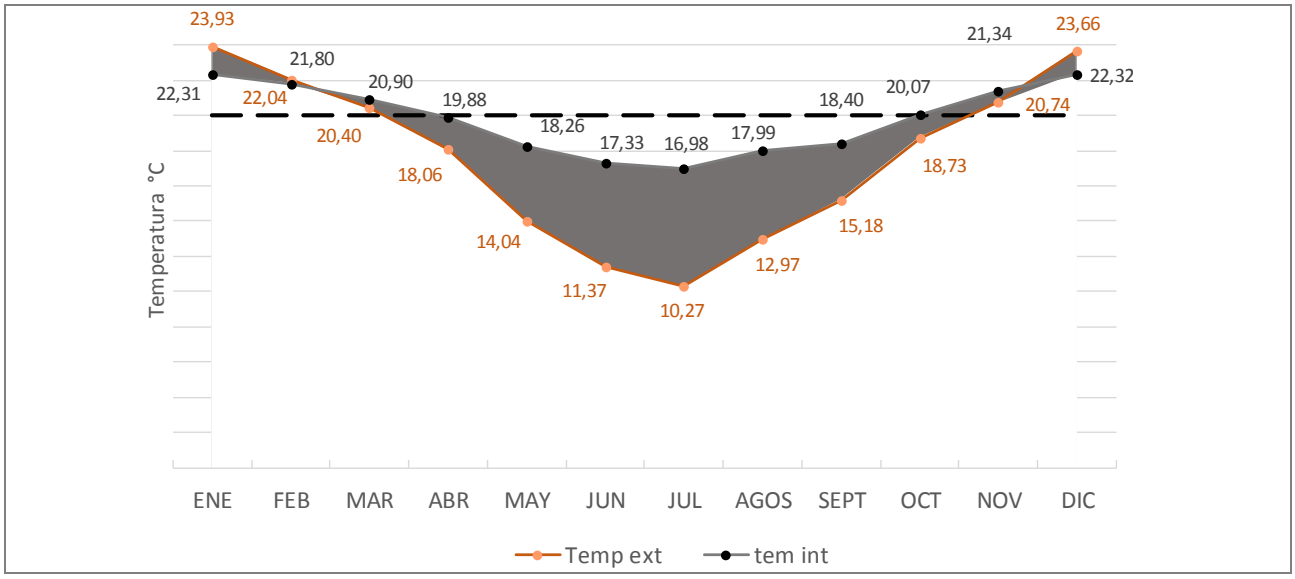
| STL-044 | MU | STEEL FRAME |
|---|---|---|

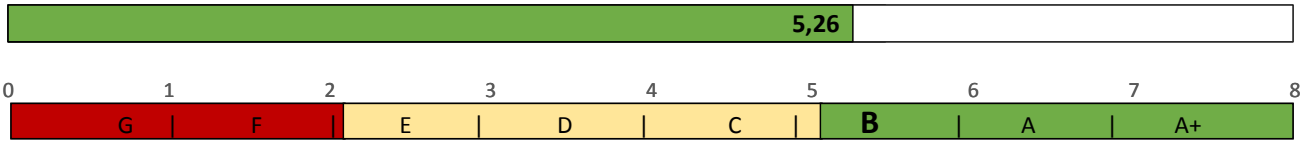
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,08** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **13,68** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



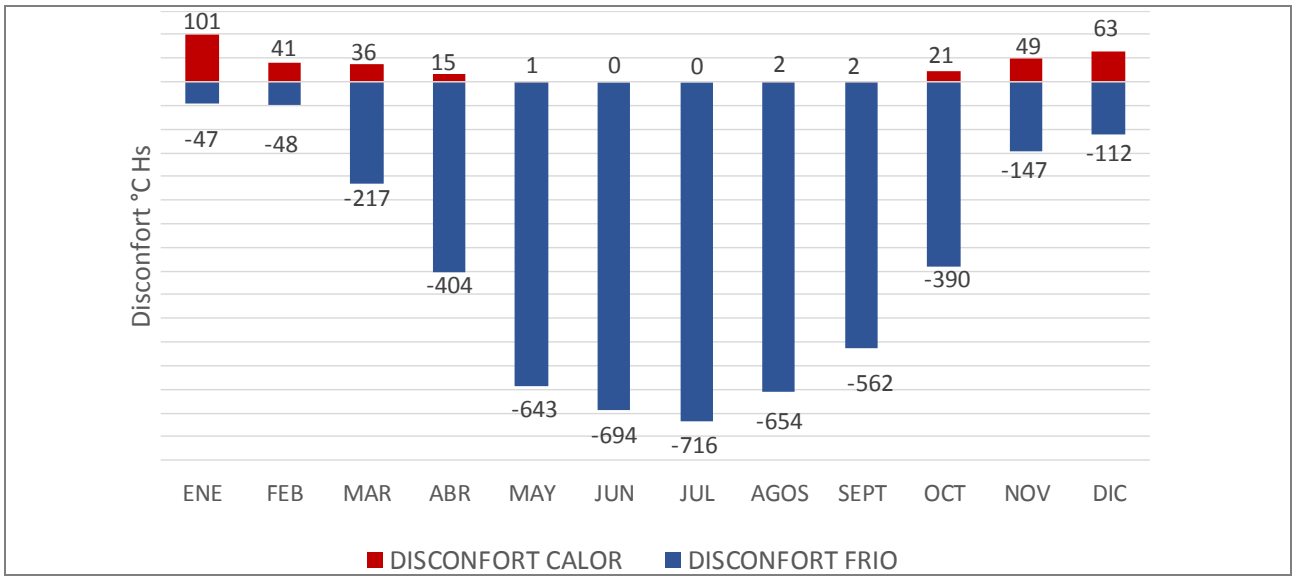




5,26 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-044 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

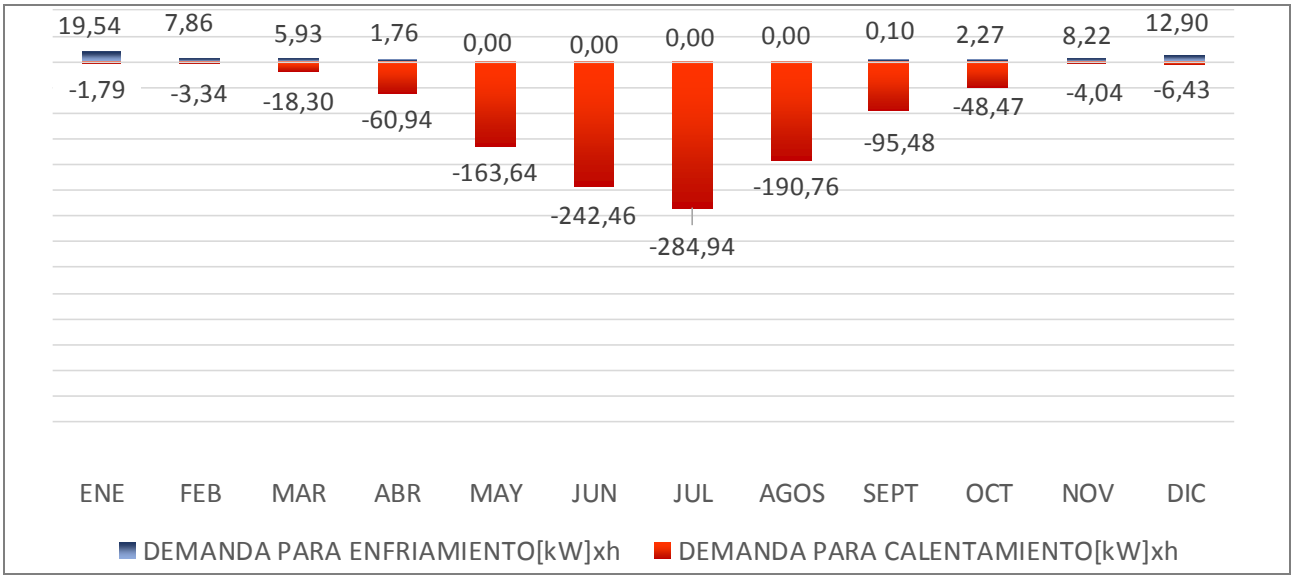
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **330** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.635** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.965** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

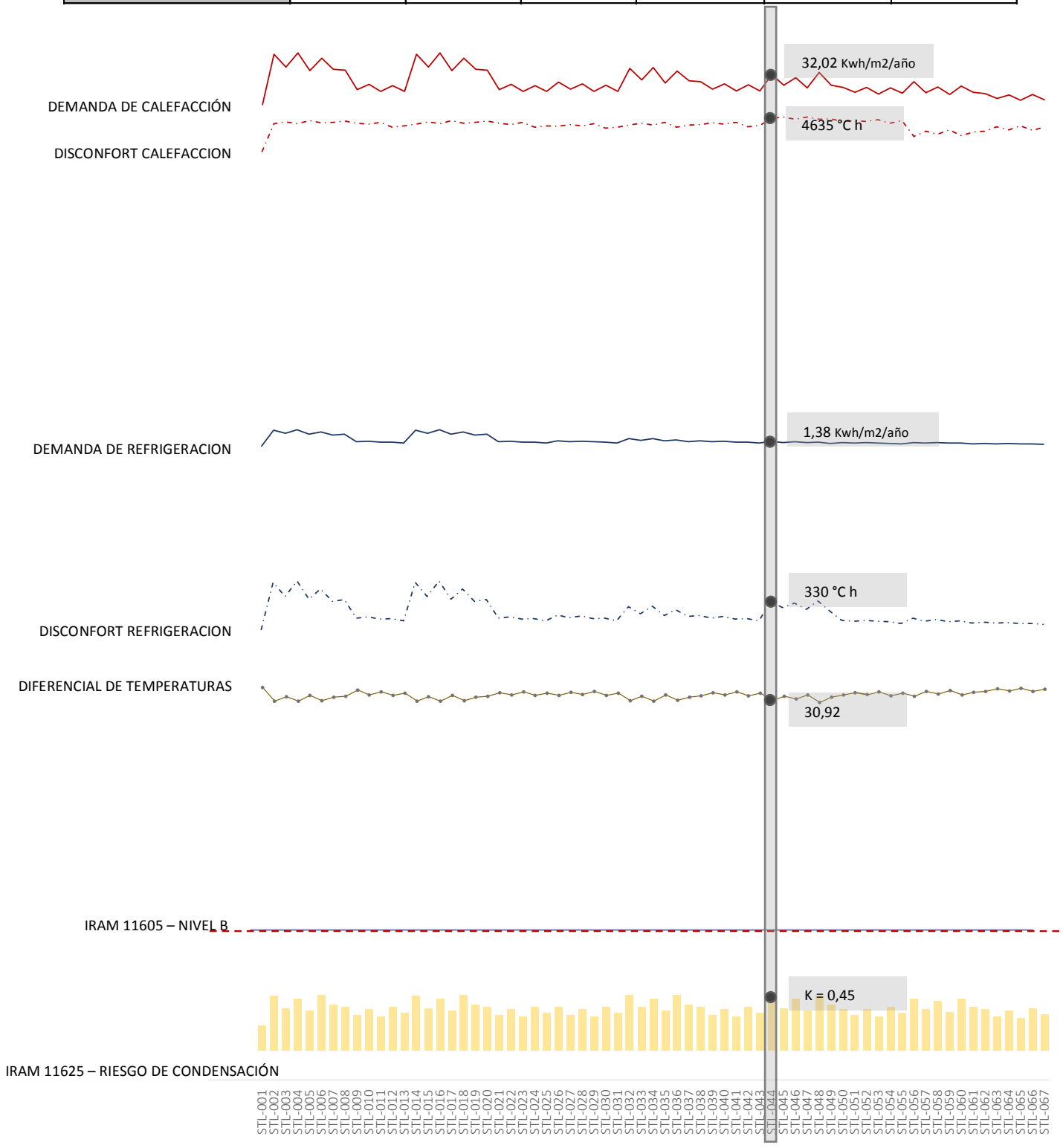



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **58,59** | kWh | 1,67 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.120,59** | kWh | 32,02 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.179,17** | kWh | **33,69** | kWh/m2/año |

| STL-044 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 096 | N° 121 | N° 114 | N° 130 | N° 190 | N° 152 |



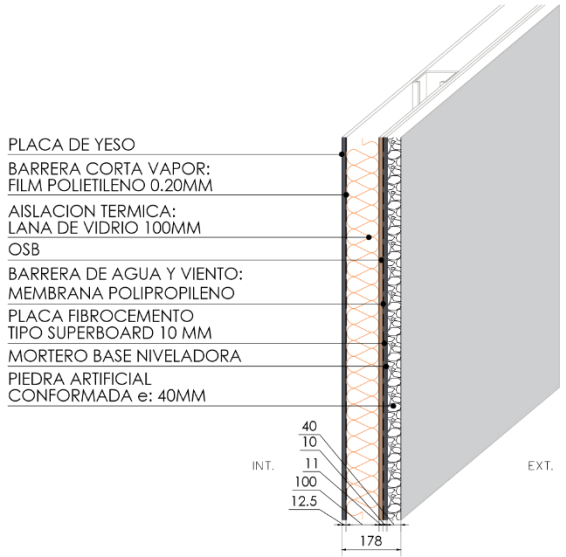

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,45 | | 30,92 | 32,02 | 1,67 | 4635 | 330 |
| INC. FAMILIA | 127,43% | 0% | 98,73% | 100,49% | 66,70% | 100,89% | 117,24% |
| INC. MUNDIAL | 37,83% | 0% | 100,34% | 77,86% | 27,83% | 103,89% | 64,56% |

| STL-045 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

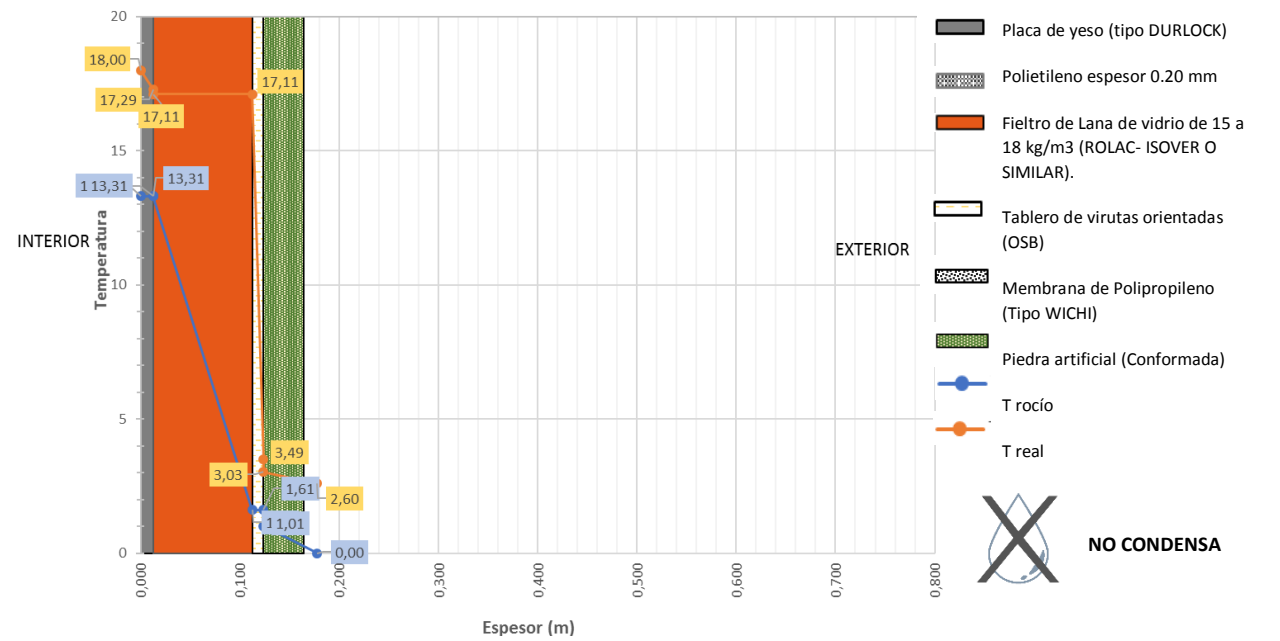
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,35 | 0,35 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



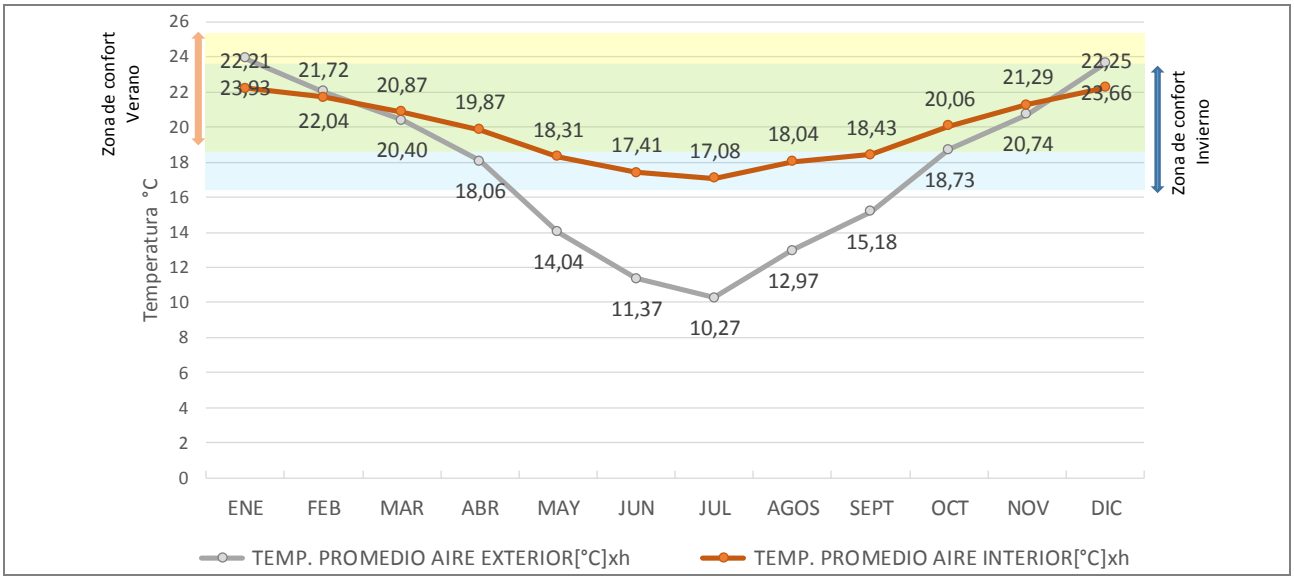

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 11,0 | 4,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,2** | **7,6** |
| | **Amortiguamiento:** | 0,011 | 0,059 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,9** | **4,1** |
| | **Amortiguamiento:** | 0,044 | 0,342 |

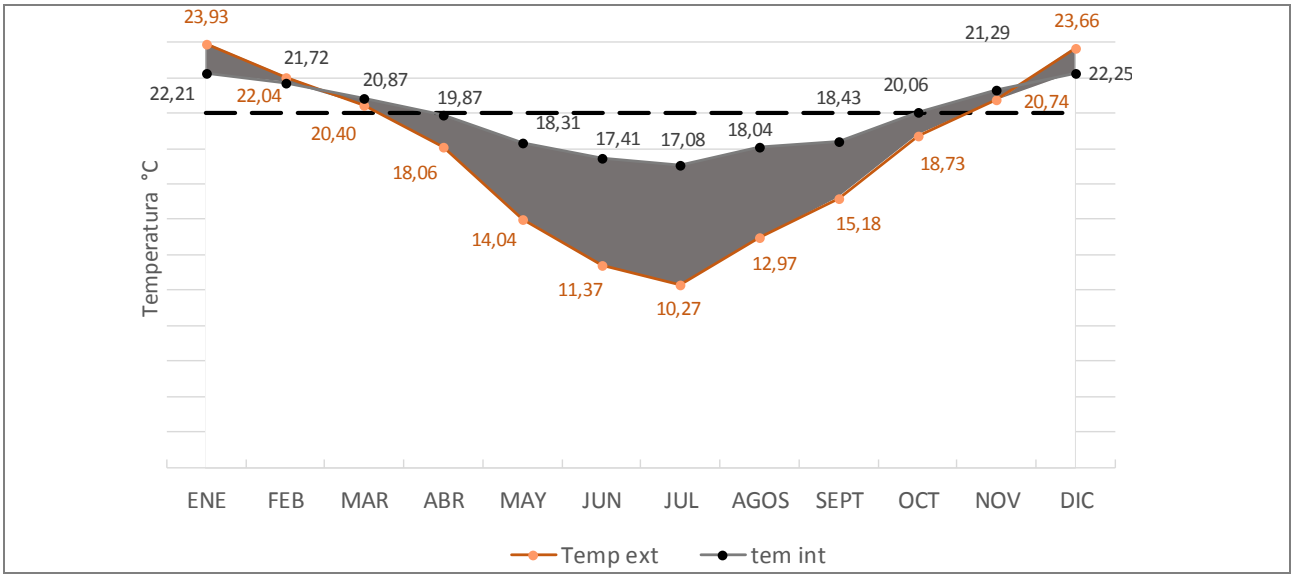
| STL-045 | MU | STEEL FRAME |
|---|---|---|

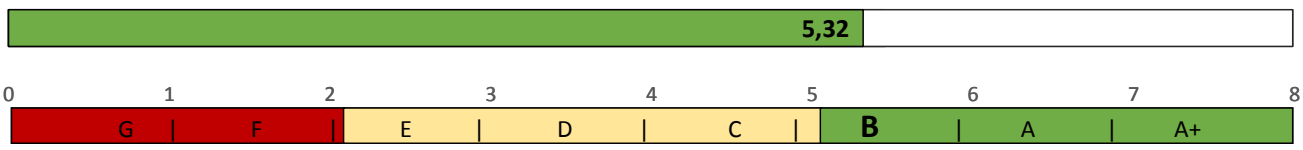
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,75** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **14,01** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



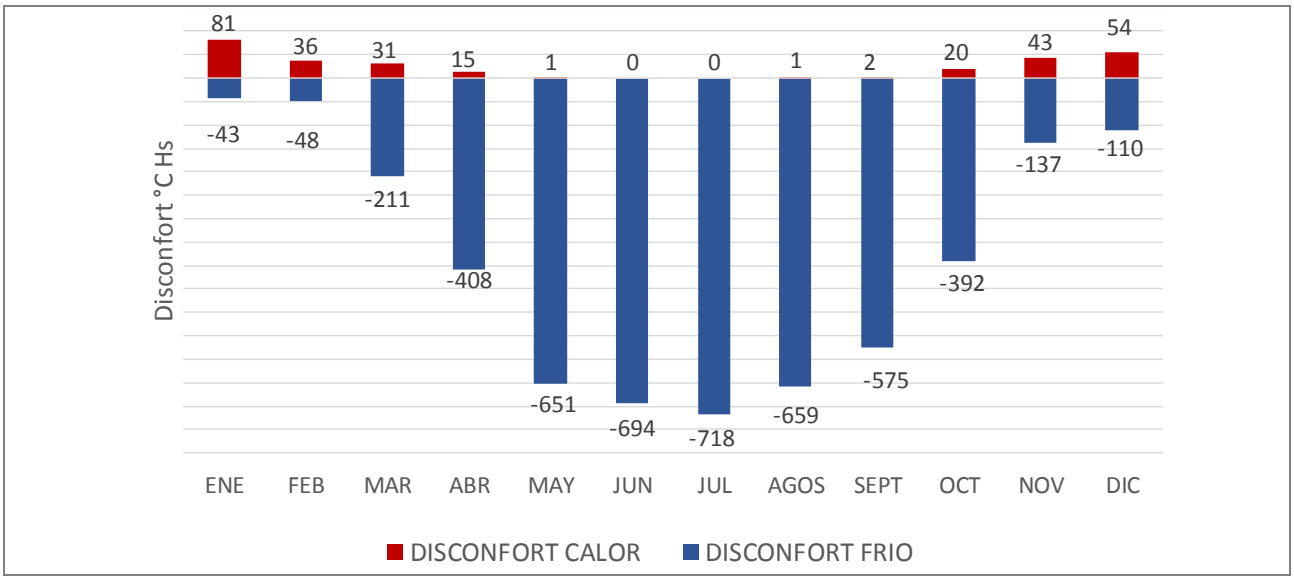




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-045 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

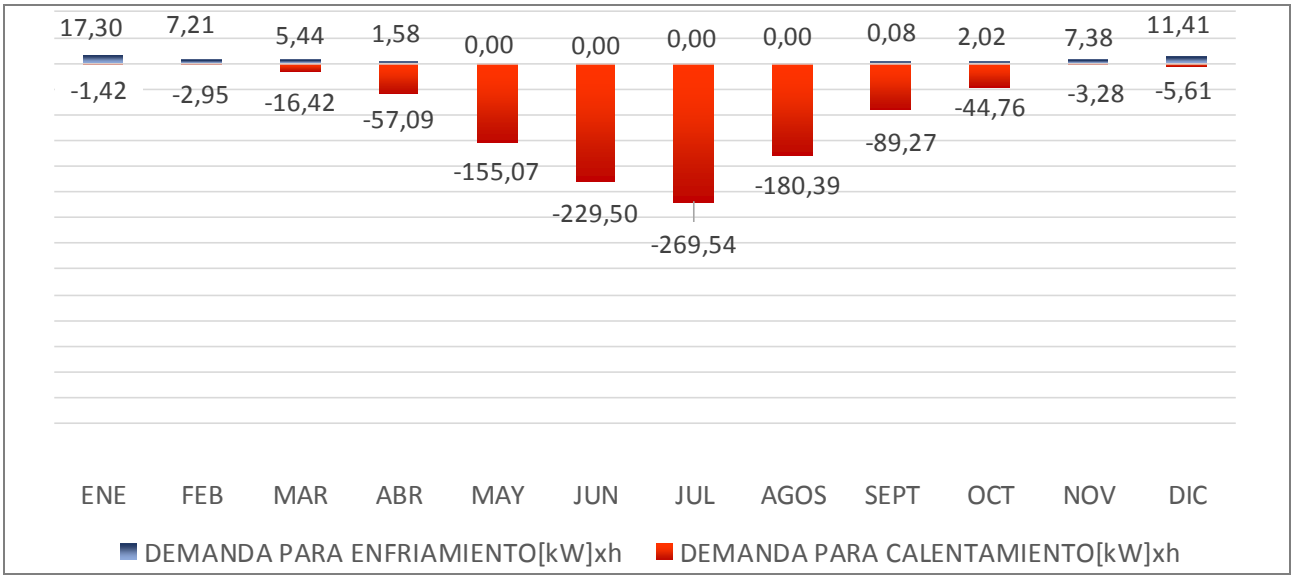
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **284** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.645** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.929** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

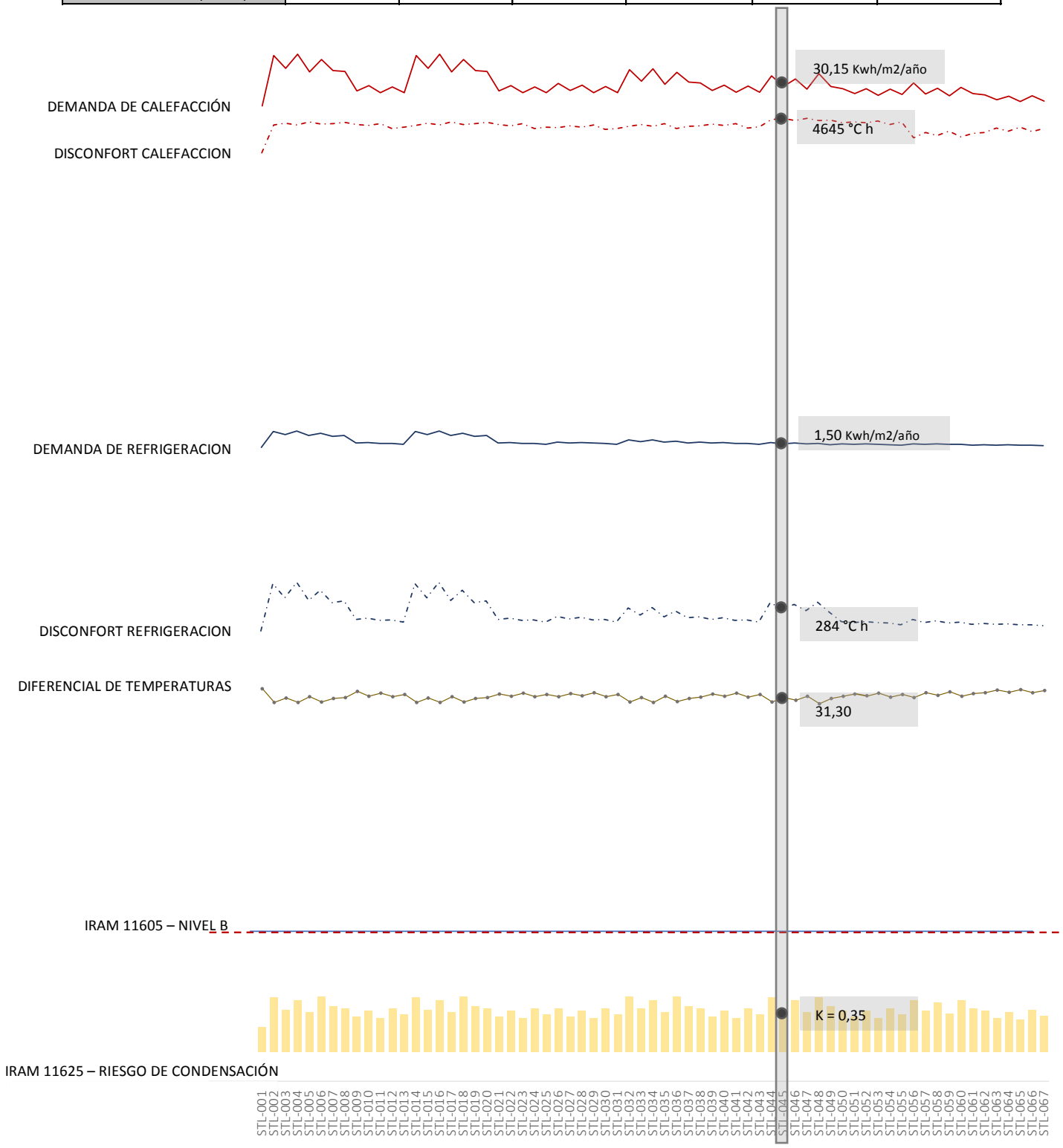



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **52,42** | kWh | 1,50 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.055,31** | kWh | 30,15 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.107,73** | kWh | **31,65** | kWh/m2/año |

| STL-045 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 047 | N° 072 | N° 072 | N° 104 | N° 192 | N° 139 |



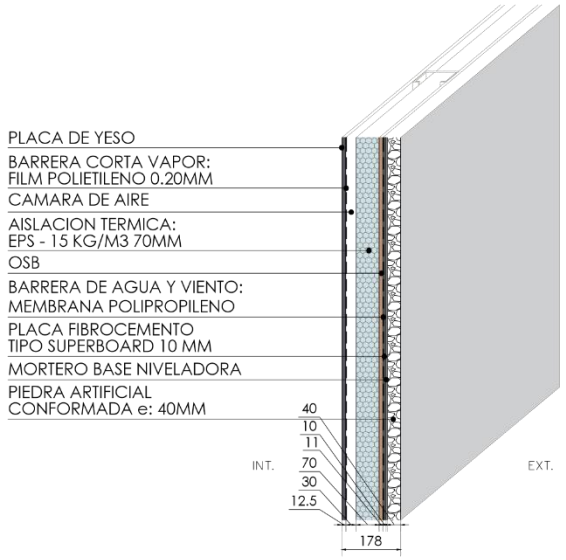

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,35 | 0% | 31,3 | 30,15 | 1,5 | 4645 | 284 |
| INC. FAMILIA | 99,11% | 0% | 99,94% | 94,62% | 59,91% | 101,11% | 100,90% |
| INC. MUNDIAL | 29,43% | 0% | 101,58% | 73,31% | 24,99% | 104,11% | 55,56% |

| STL-046 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 70MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

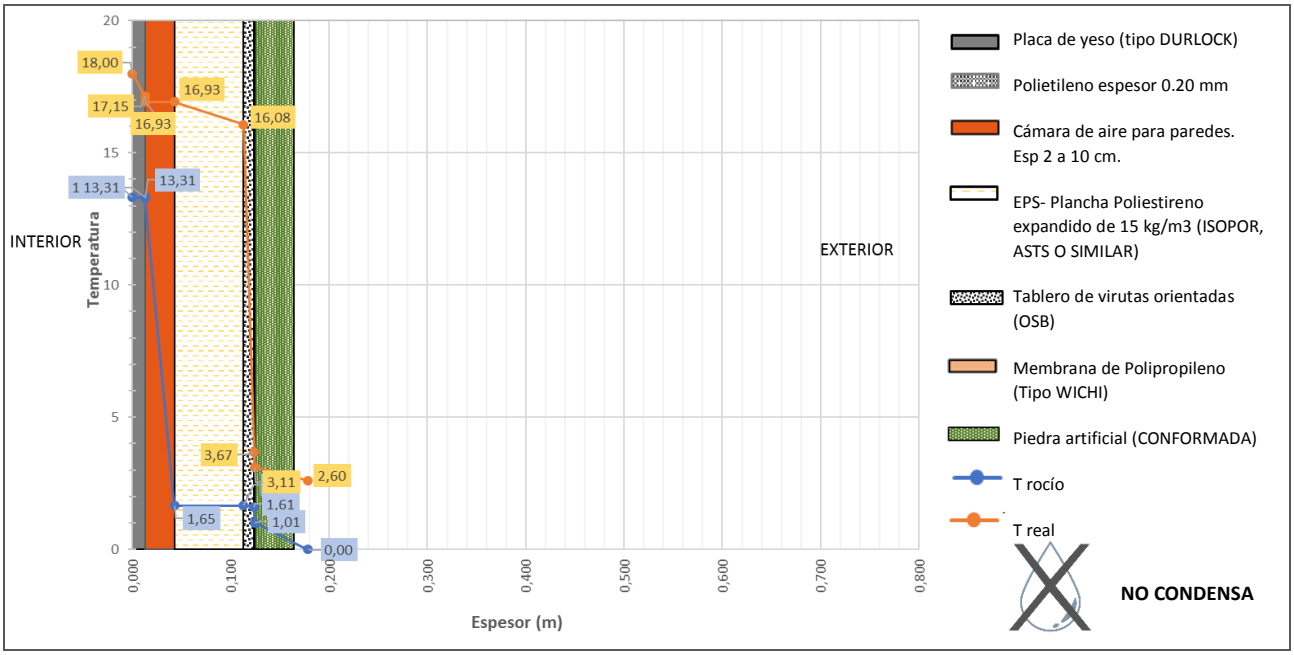
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,43 | 0,43 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



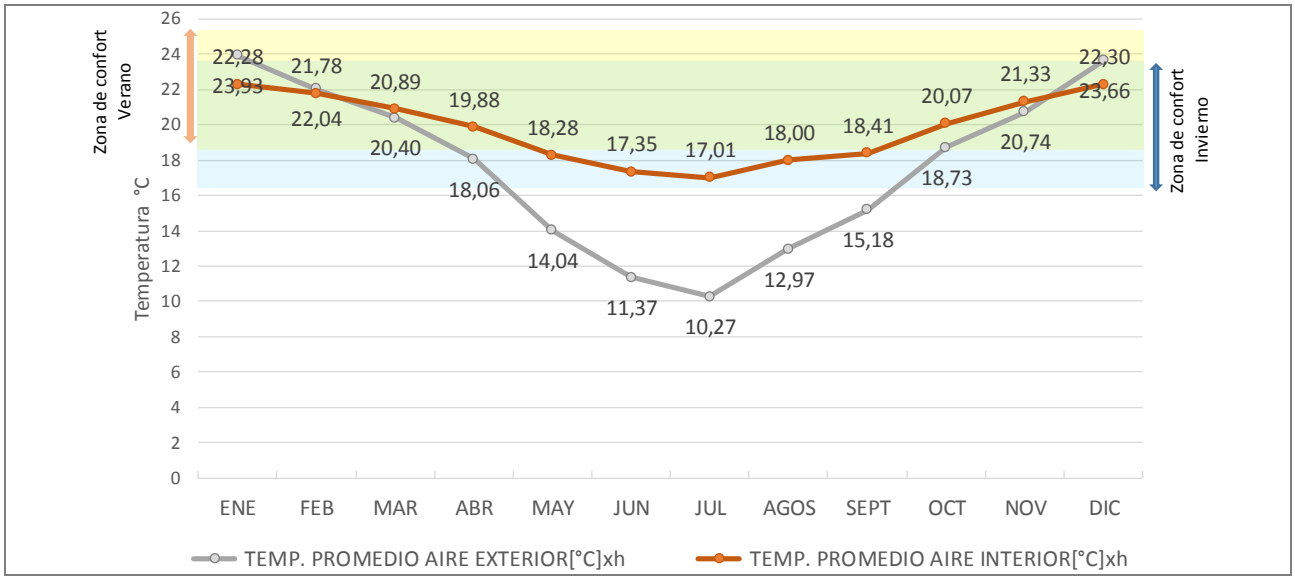

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 13,4 | 5,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,0** | **6,9** |
| | **Amortiguamiento:** | 0,017 | 0,078 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,8** | **3,8** |
| | **Amortiguamiento:** | 0,059 | 0,372 |

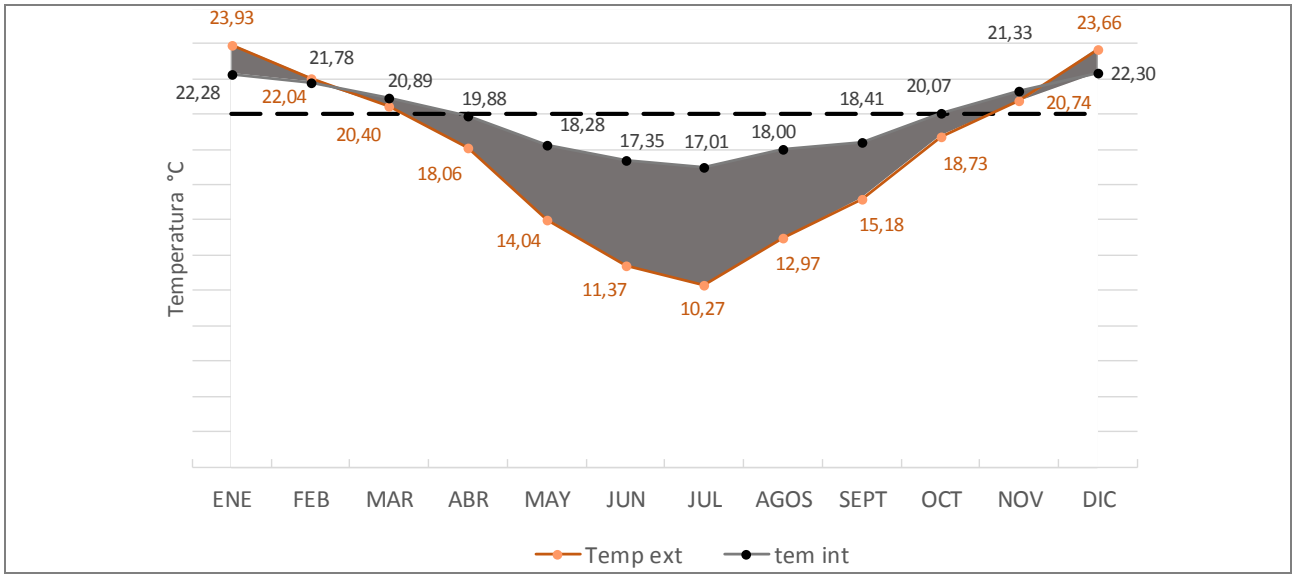
| STL-046 | MU | STEEL FRAME |
|---|---|---|

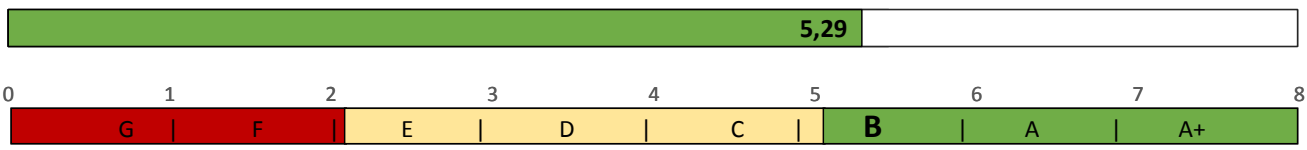
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,98** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,77** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



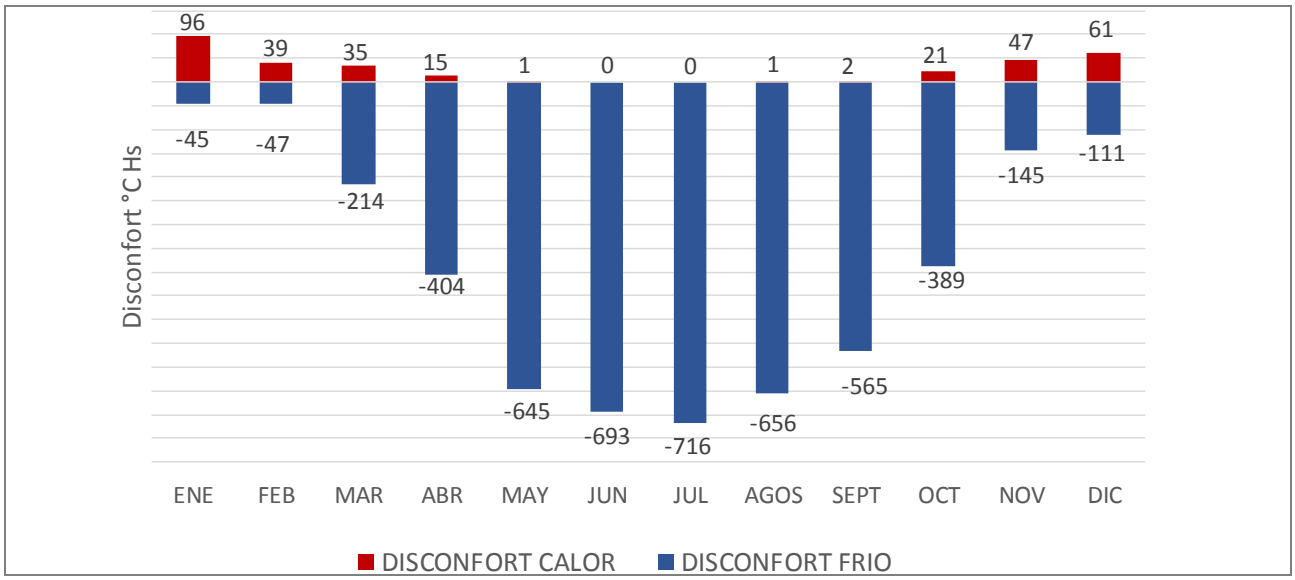




5,29 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-046 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

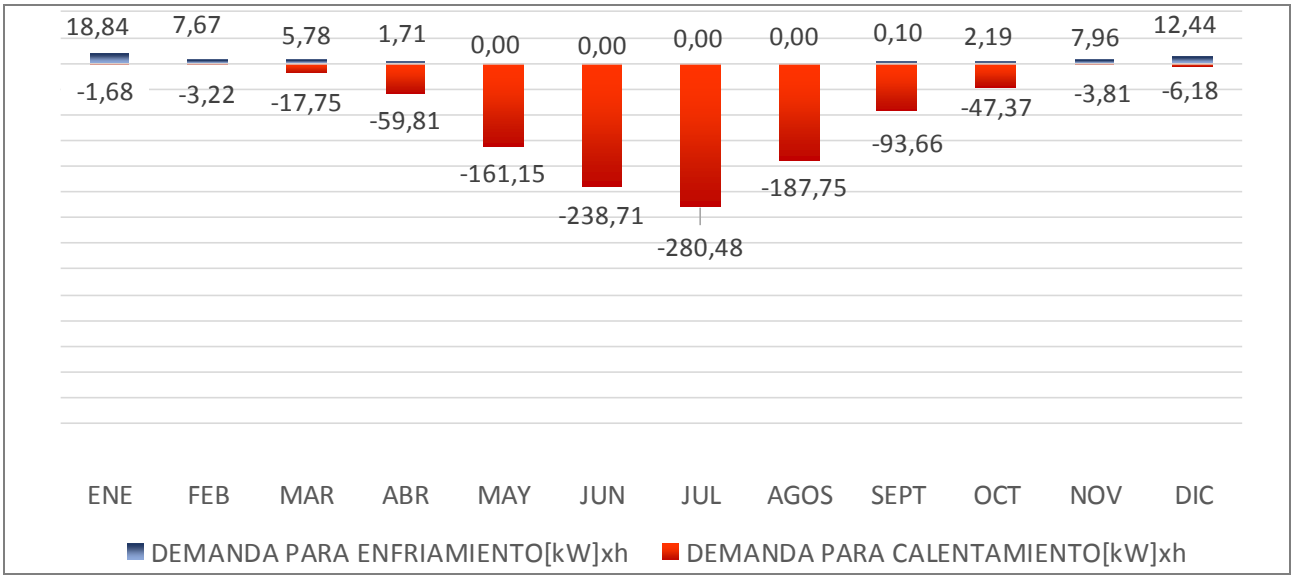
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **318** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.630** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.948** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

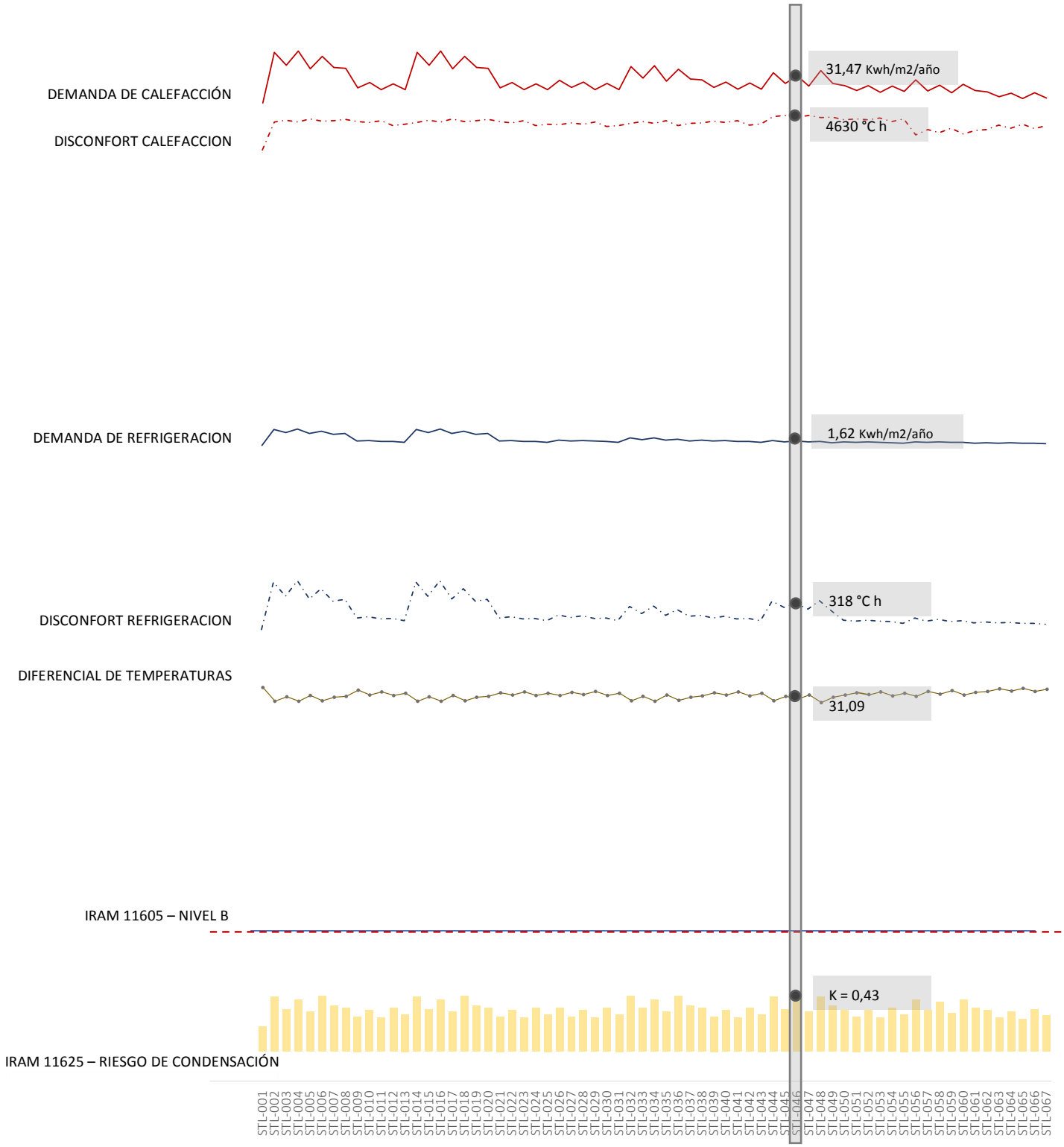



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **56,70** | kWh | 1,62 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.101,56** | kWh | 31,47 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.158,26** | kWh | **33,09** | kWh/m2/año |

| STL-046 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 086 | N° 101 | N° 105 | N° 126 | N° 187 | N° 147 |



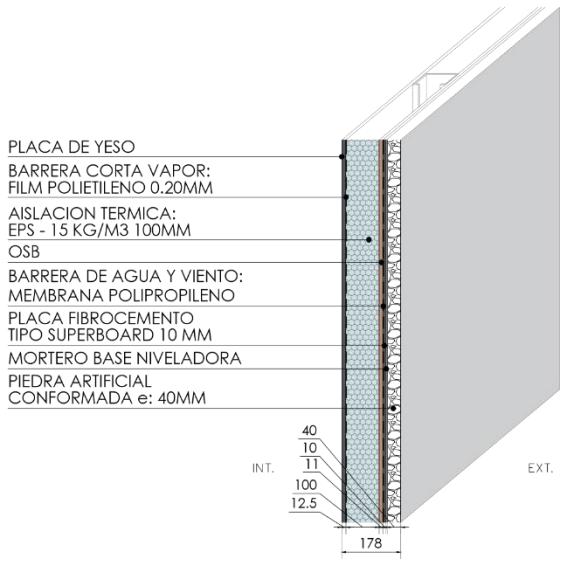

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,43 | 0% | 31,09 | 31,47 | 1,62 | 4630 | 318 |
| INC. FAMILIA | 121,77% | 0% | 99,27% | 98,77% | 64,70% | 100,78% | 112,98% |
| INC. MUNDIAL | 36,15% | 0% | 100,90% | 76,52% | 26,99% | 103,78% | 62,21% |

| STL-047 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

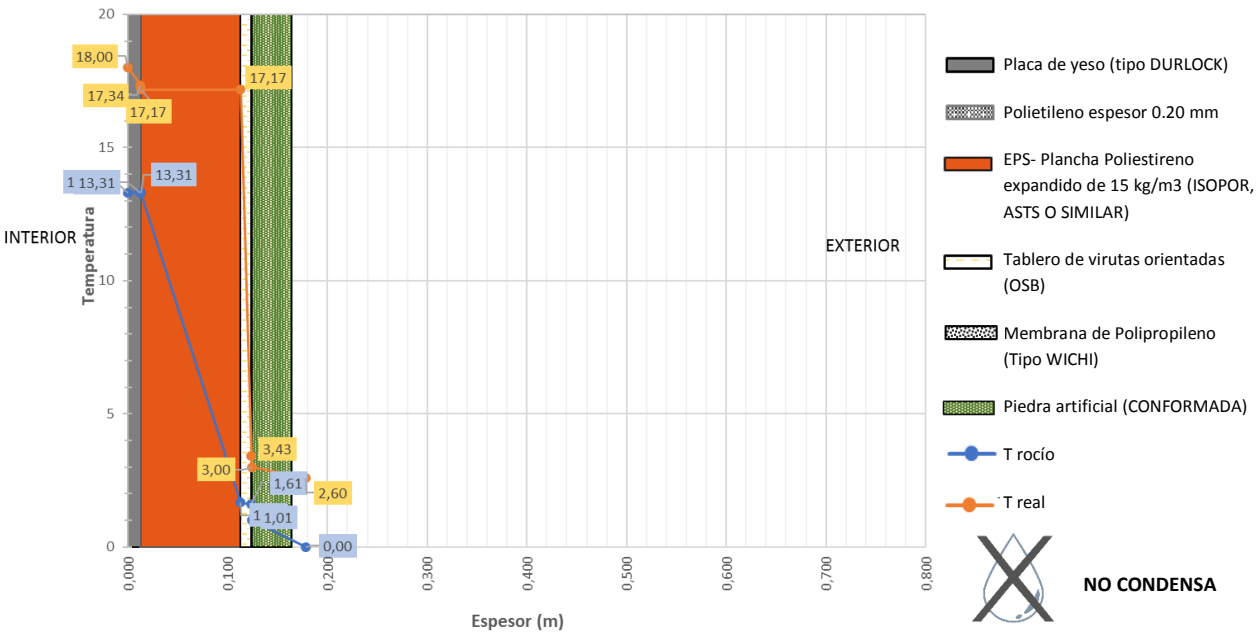
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,33 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



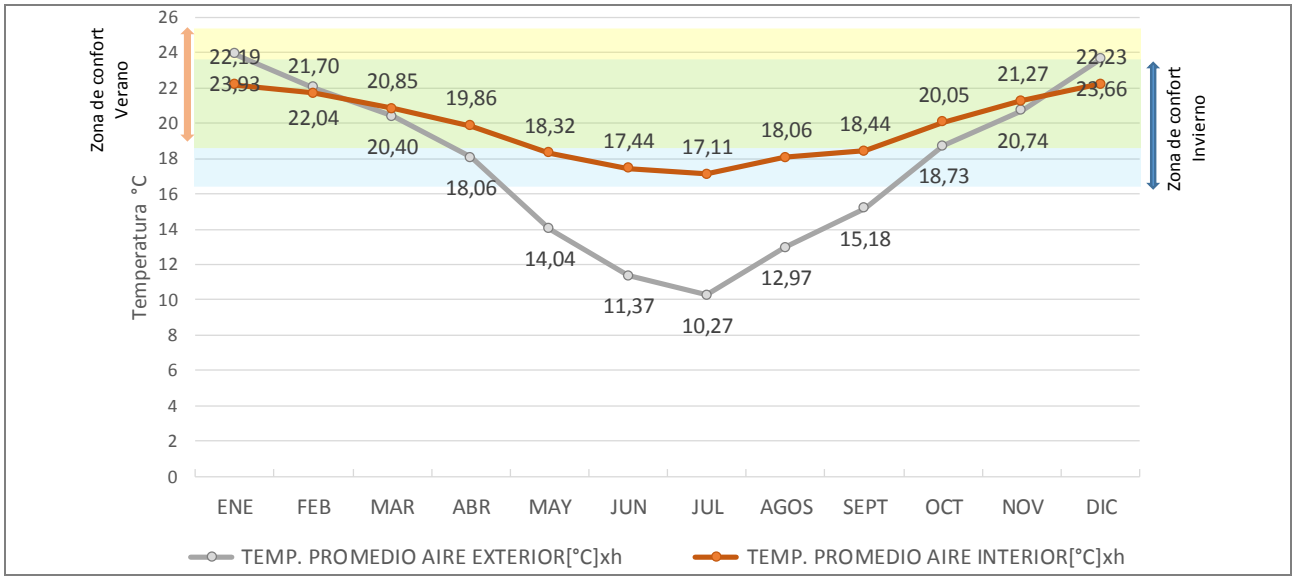

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 10,2 | Invierno 4,0 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,6** | **7,9** |
| | **Amortiguamiento:** | 0,009 | 0,053 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,3** | **4,2** |
| | **Amortiguamiento:** | 0,040 | 0,331 |

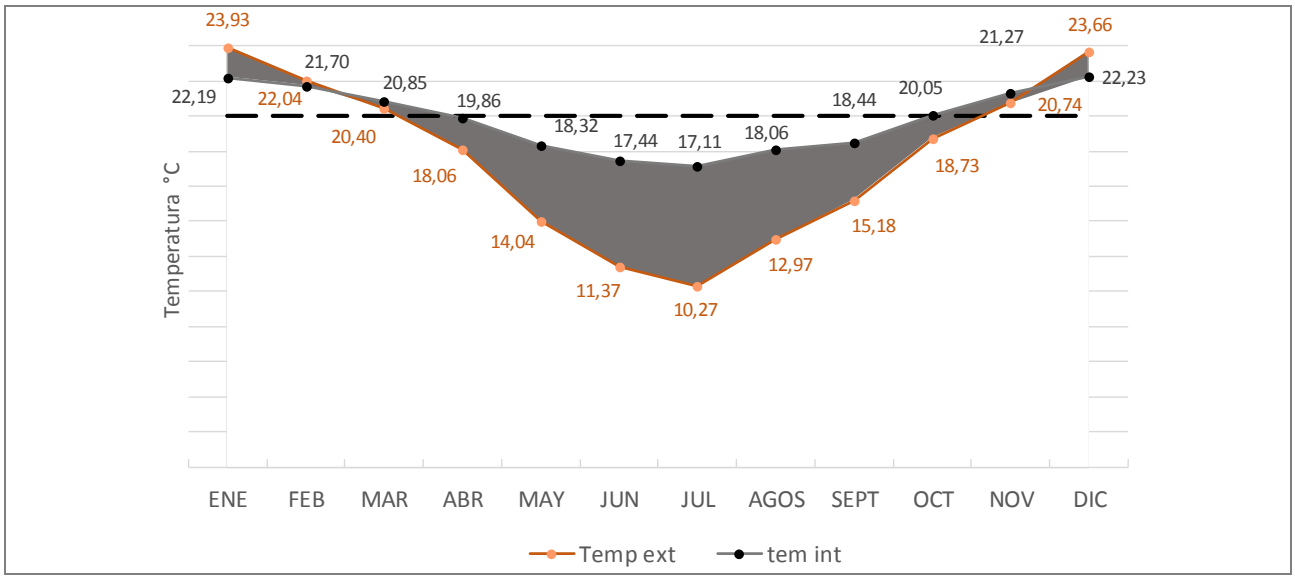
| STL-047 | MU | STEEL FRAME |
|---|---|---|

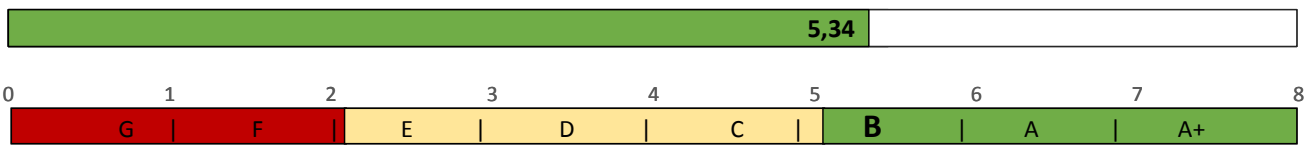
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,66** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **11,93** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



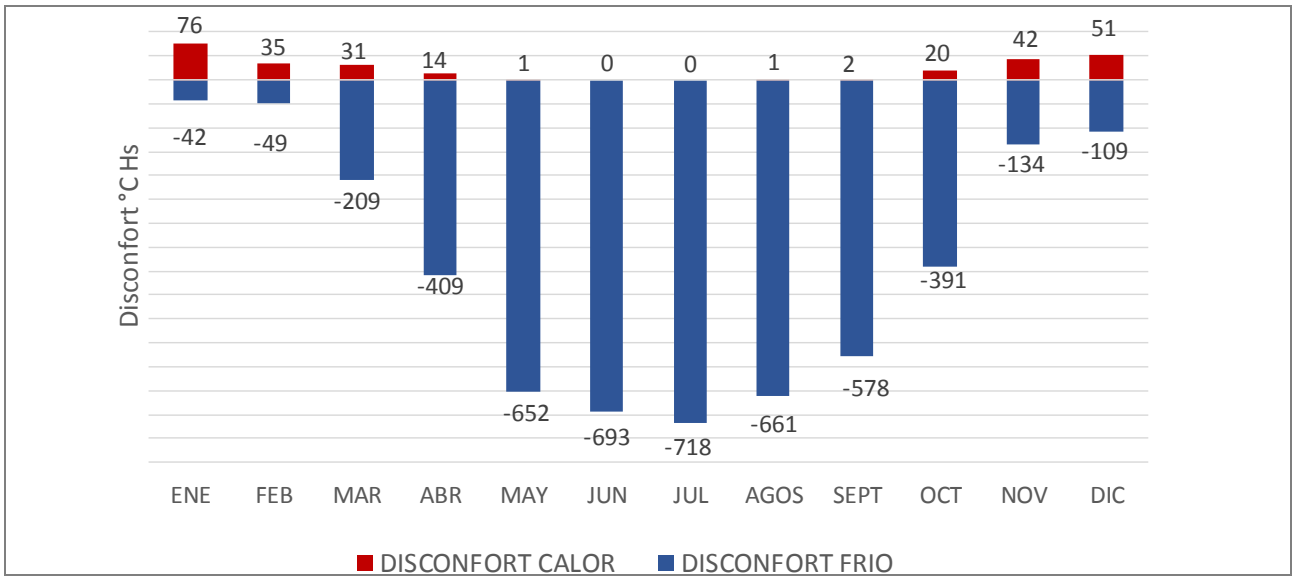




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-047 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

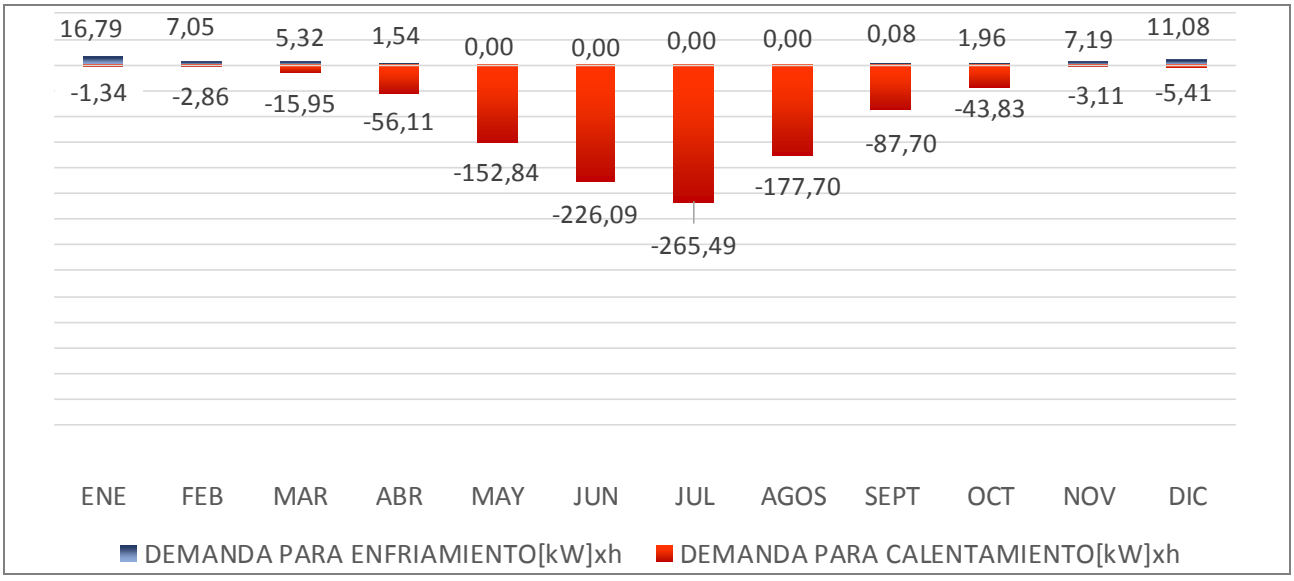
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **274** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.645** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.918** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

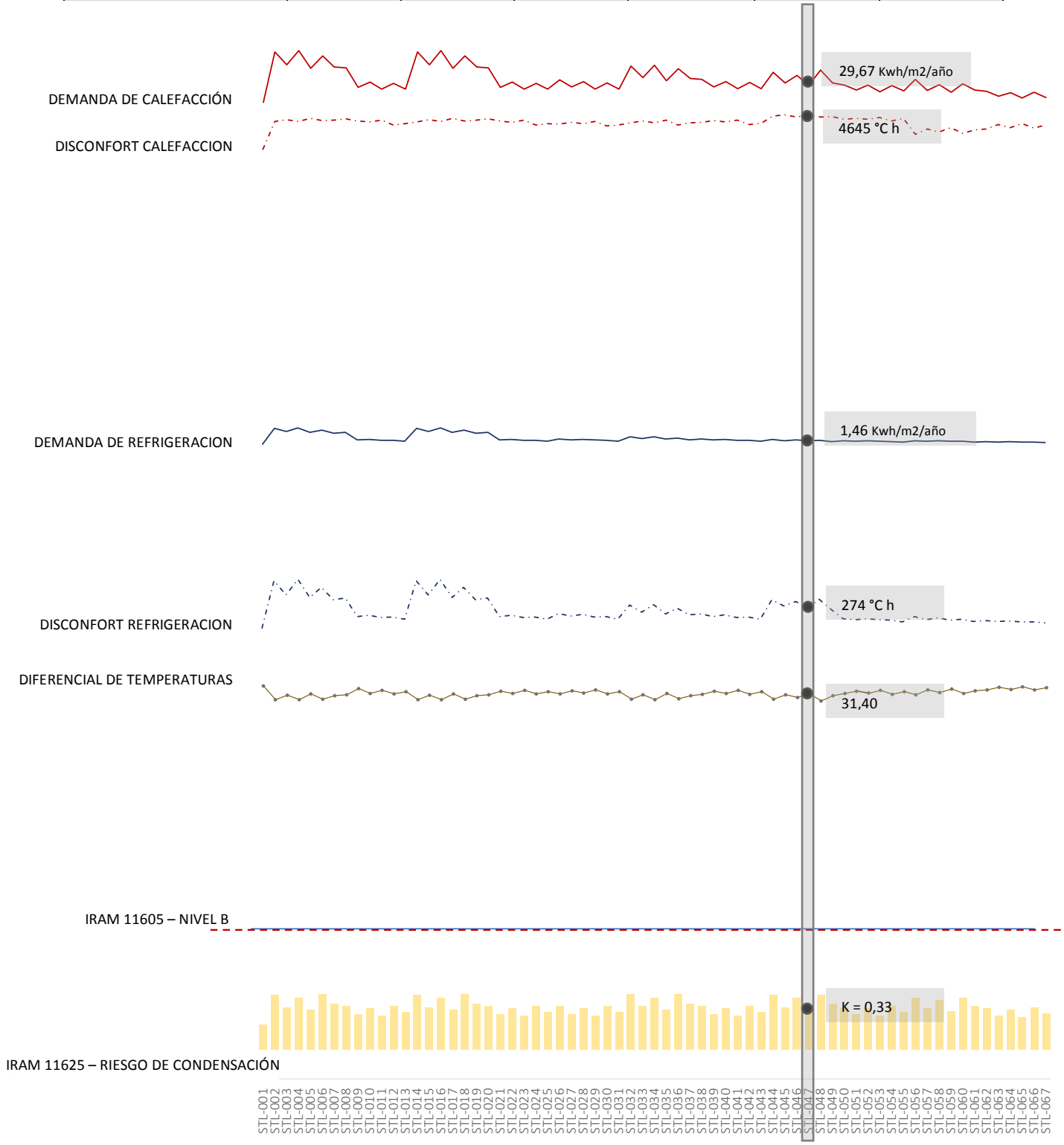



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **51,00** | kWh | 1,46 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.038,44** | kWh | 29,67 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.089,44** | kWh | **31,13** | kWh/m2/año |

| STL-047 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 032 | N° 051 | N° 052 | N° 096 | N° 193 | N° 136 |



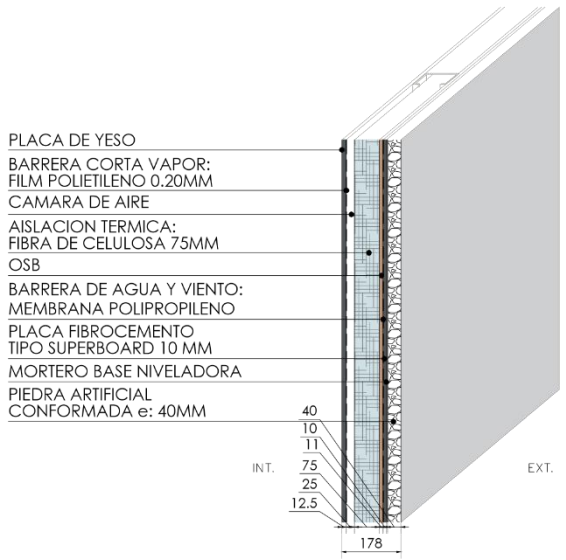

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,33 | | 31,4 | 29,67 | 1,46 | 4645 | 274 |
| INC. FAMILIA | 93,45% | 0% | 100,26% | 93,12% | 58,31% | 101,11% | 97,34% |
| INC. MUNDIAL | 27,75% | 0% | 101,90% | 72,14% | 24,33% | 104,11% | 53,60% |

| STL-048 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

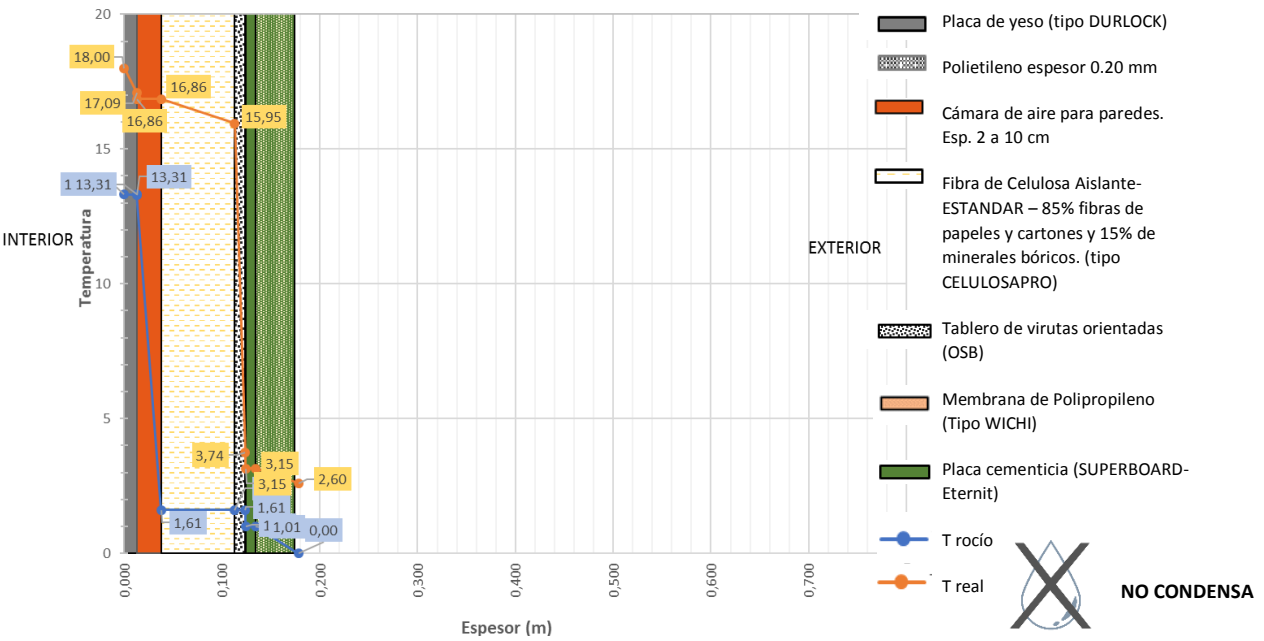
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,45 | 0,45 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



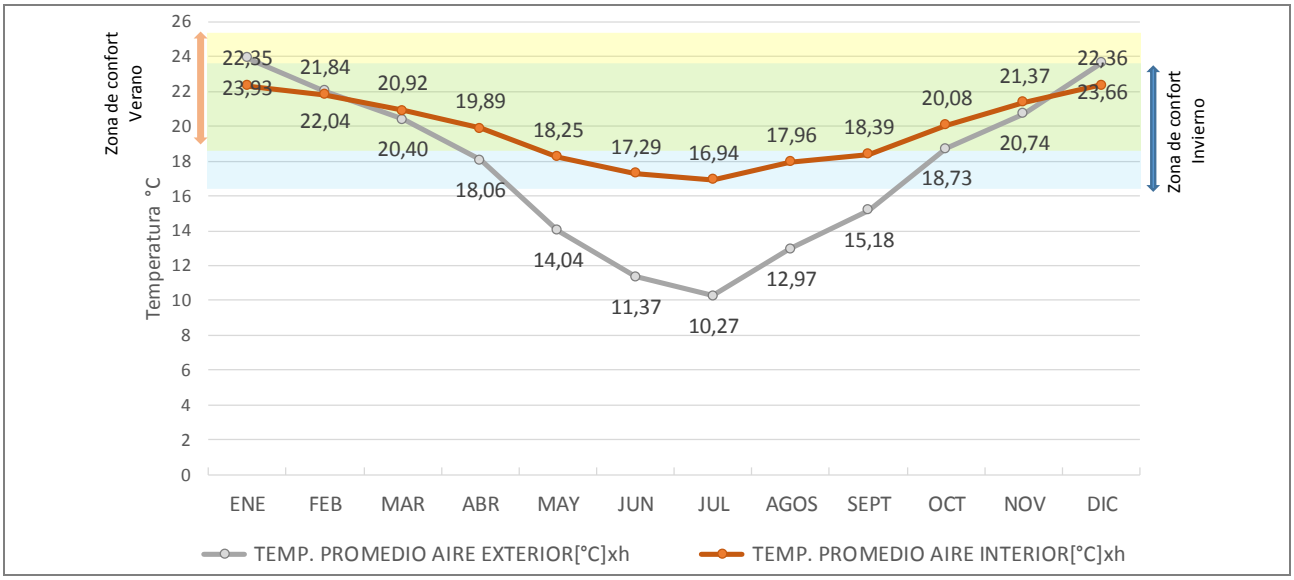

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 15,9 | 7,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,2** | **7,5** |
| | **Amortiguamiento:** | 0,016 | 0,062 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,8** | **4,4** |
| | **Amortiguamiento:** | 0,060 | 0,319 |

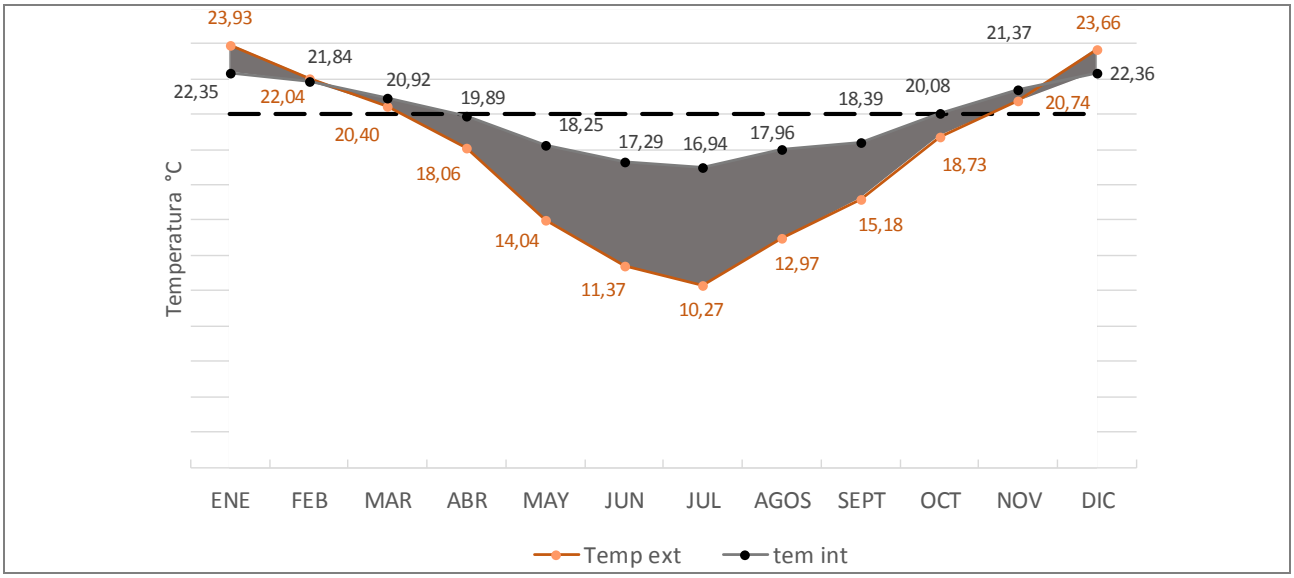
| STL-048 | MU | STEEL FRAME |
|---|---|---|

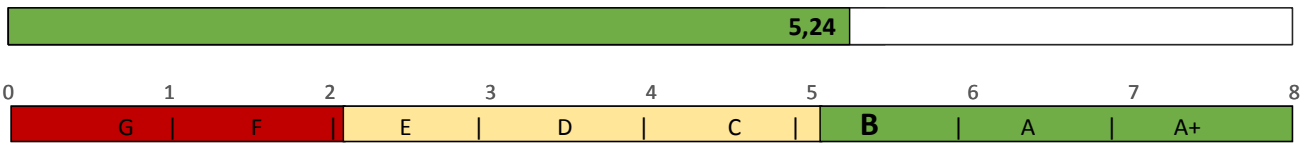
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **26,00** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **13,69** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



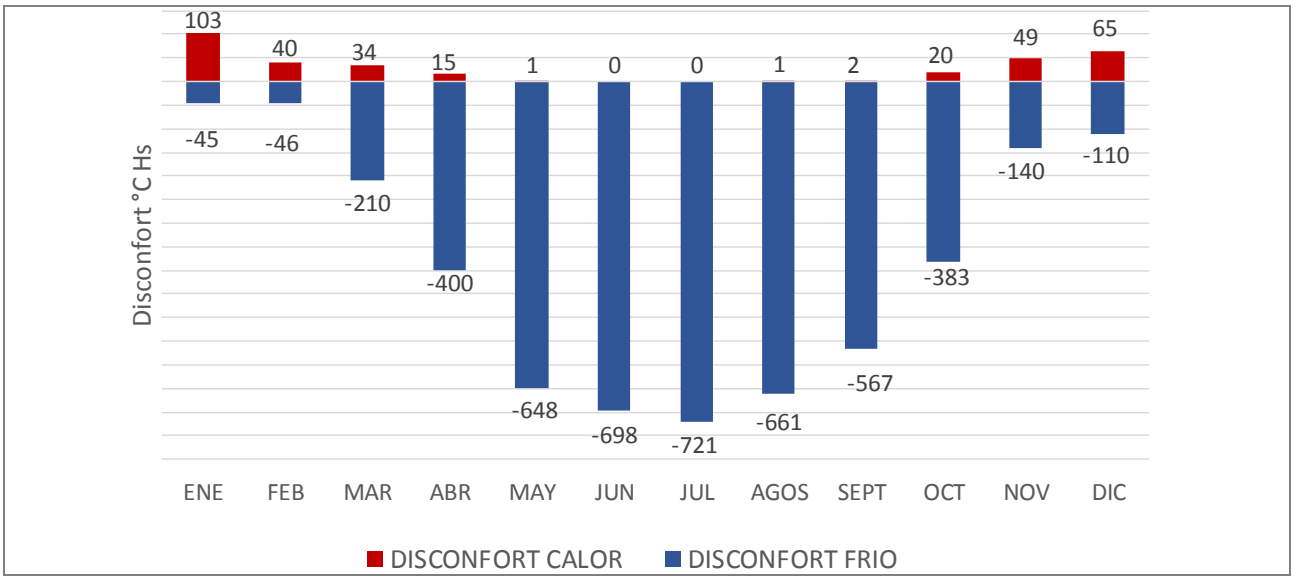




5,24 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| STL-048 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

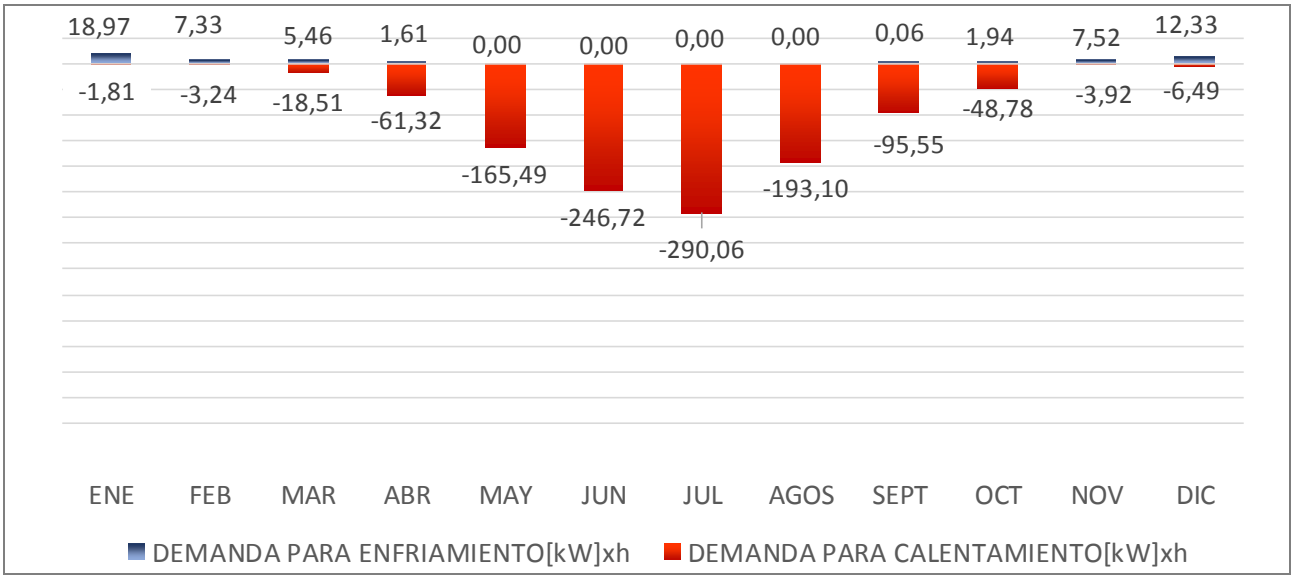
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **331** | °C Hs | 4% |
| HORAS DE DISCONFORT POR FRÍO | **4.629** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.960** | **°C Hs** | **57%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

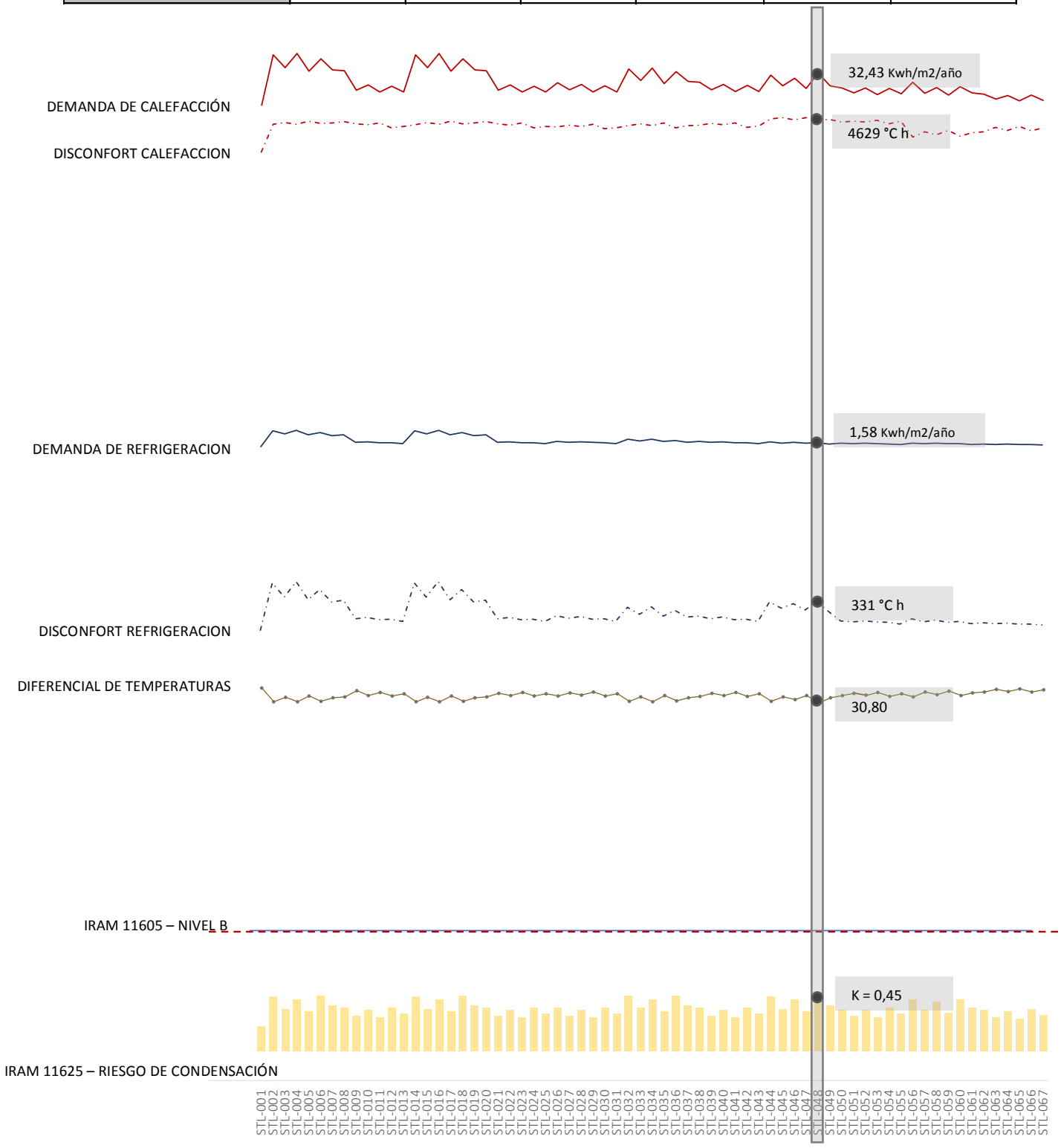



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **55,21** | kWh | 1,58 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.135,00** | kWh | 32,43 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.190,20** | kWh | **34,01** | kWh/m2/año |

| STL-048 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 097 | N° 134 | N° 119 | N° 117 | N° 186 | N° 153 |



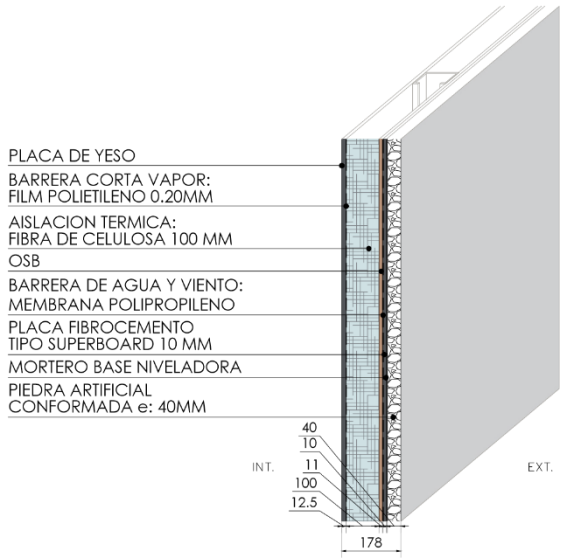

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,45 | | 30,8 | 32,43 | 1,58 | 4629 | 331 |
| INC. FAMILIA | 127,43% | 0% | 98,34% | 101,78% | 63,10% | 100,76% | 117,59% |
| INC. MUNDIAL | 37,83% | 0% | 99,96% | 78,86% | 26,33% | 103,75% | 64,76% |

| STL-049 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MALLA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

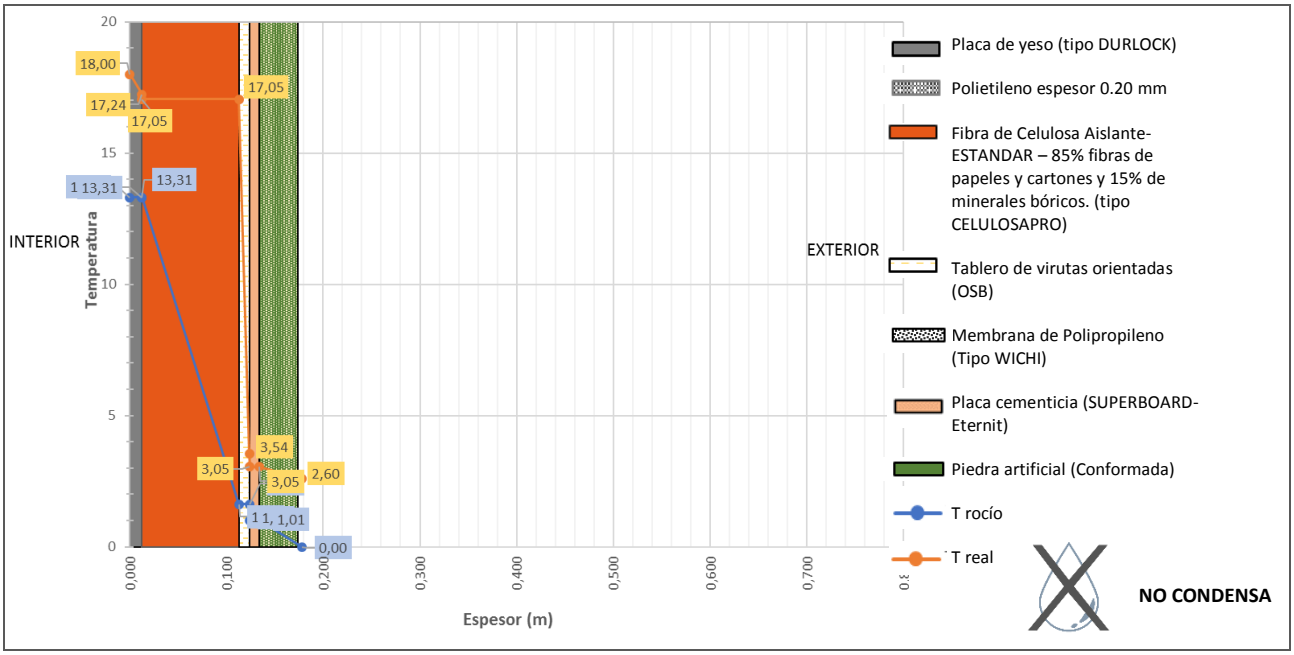
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,38 | 0,38 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



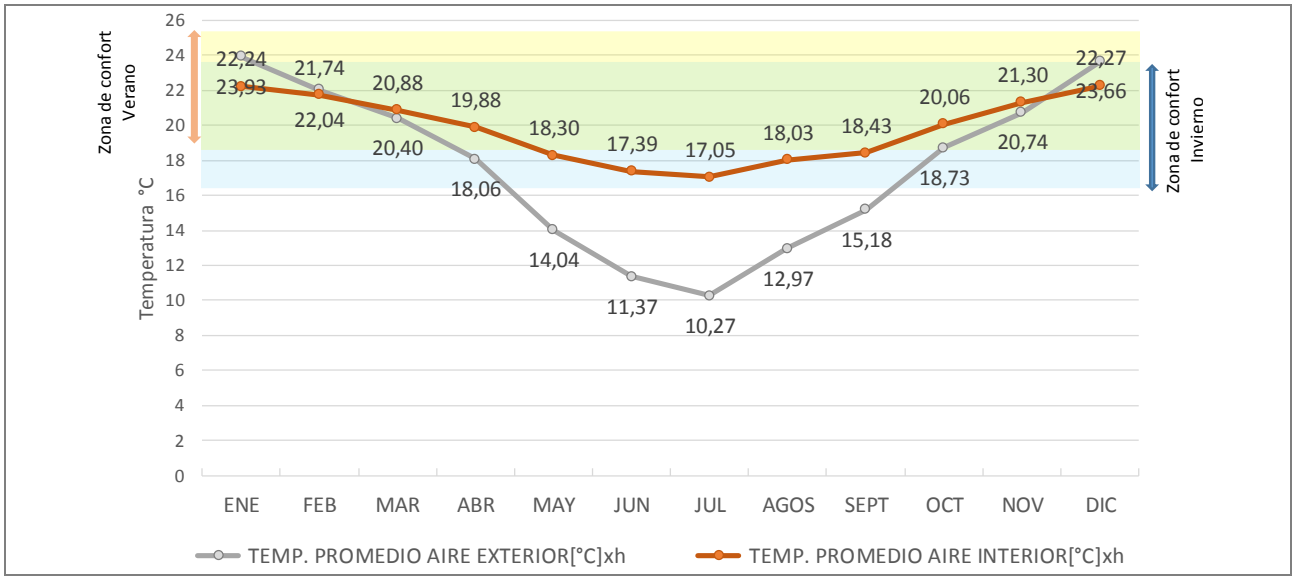

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 13,5 | 6,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,6** | **8,6** |
| | **Amortiguamiento:** | 0,009 | 0,041 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,9** | **5,0** |
| | **Amortiguamiento:** | 0,044 | 0,267 |

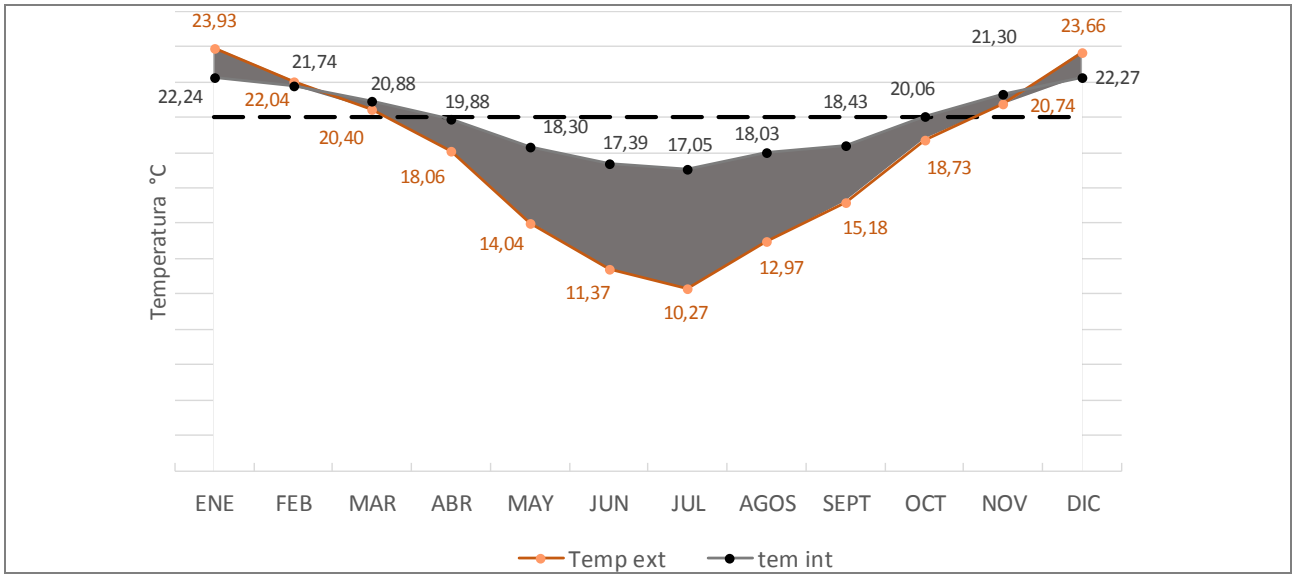
| STL-049 | MU | STEEL FRAME |
|---|---|---|

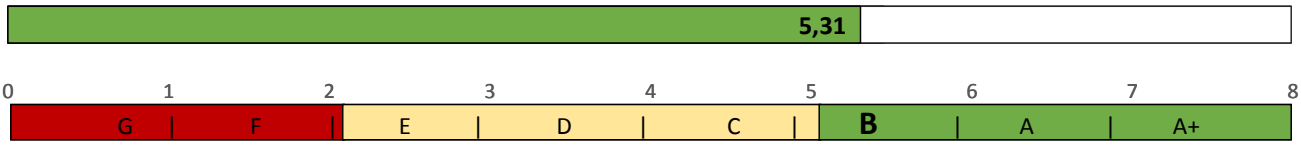
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,53** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **14,11** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



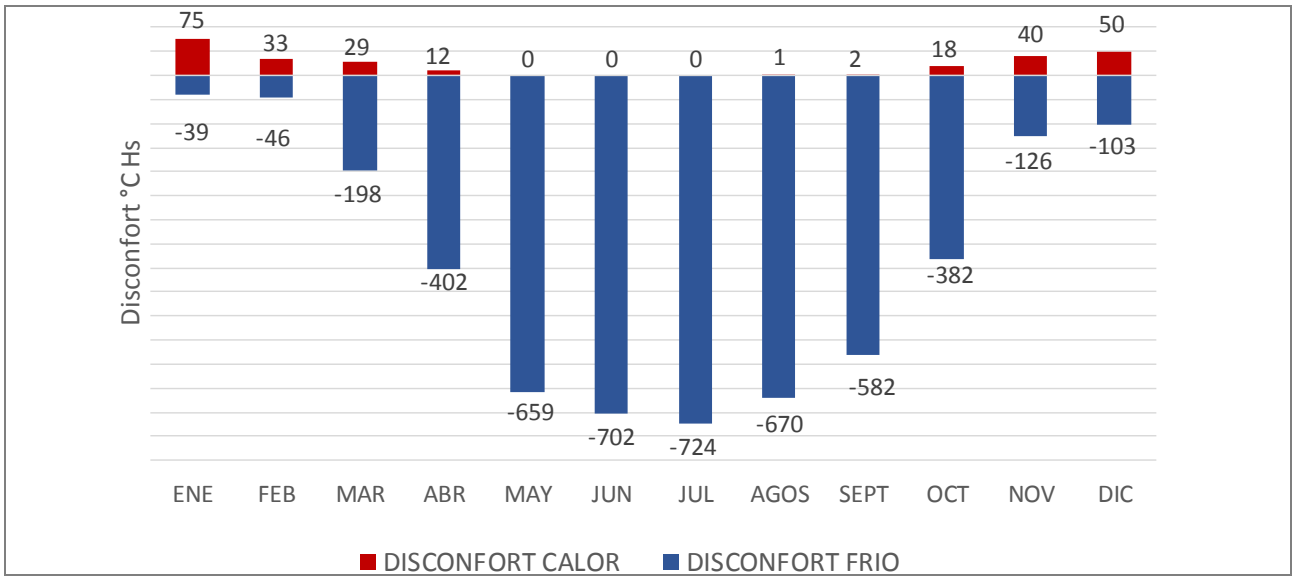




5,31 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,66

| STL-049 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

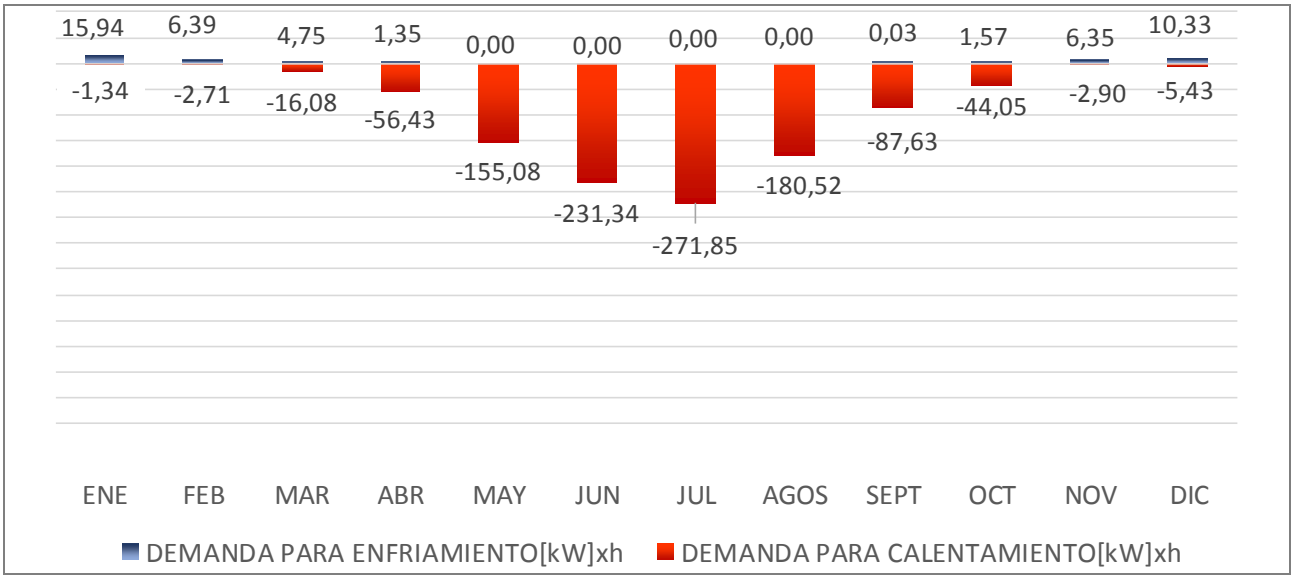
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **261** | °C Hs | 3% |
| HORAS DE DISCONFORT POR FRÍO | **4.633** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.894** | **°C Hs** | **56%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

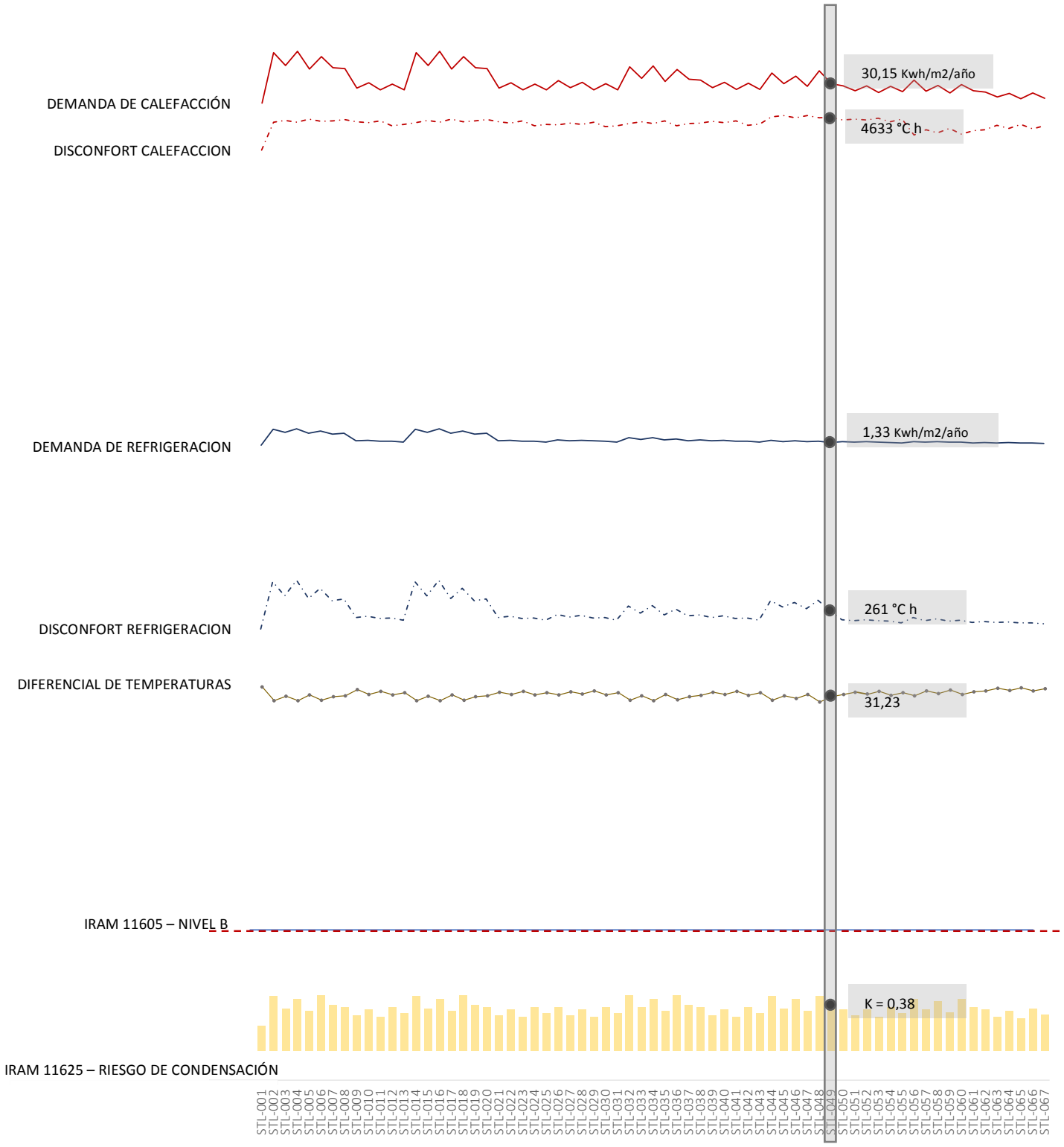



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **46,72** | kWh | 1,33 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.055,37** | kWh | 30,15 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.102,08** | kWh | **31,49** | kWh/m2/año |

| STL-049 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 069 | N° 085 | N° 073 | N° 080 | N° 189 | N° 134 |



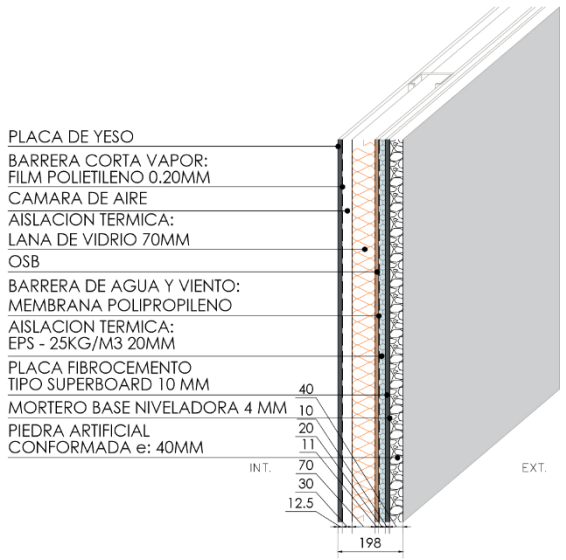

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,38 | 0% | 31,23 | 30,15 | 1,33 | 4633 | 261 |
| INC. FAMILIA | 107,61% | 0% | 99,72% | 94,62% | 53,12% | 100,84% | 92,72% |
| INC. MUNDIAL | 31,95% | 0% | 101,35% | 73,31% | 22,16% | 103,84% | 51,06% |

| STL-050 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KG / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

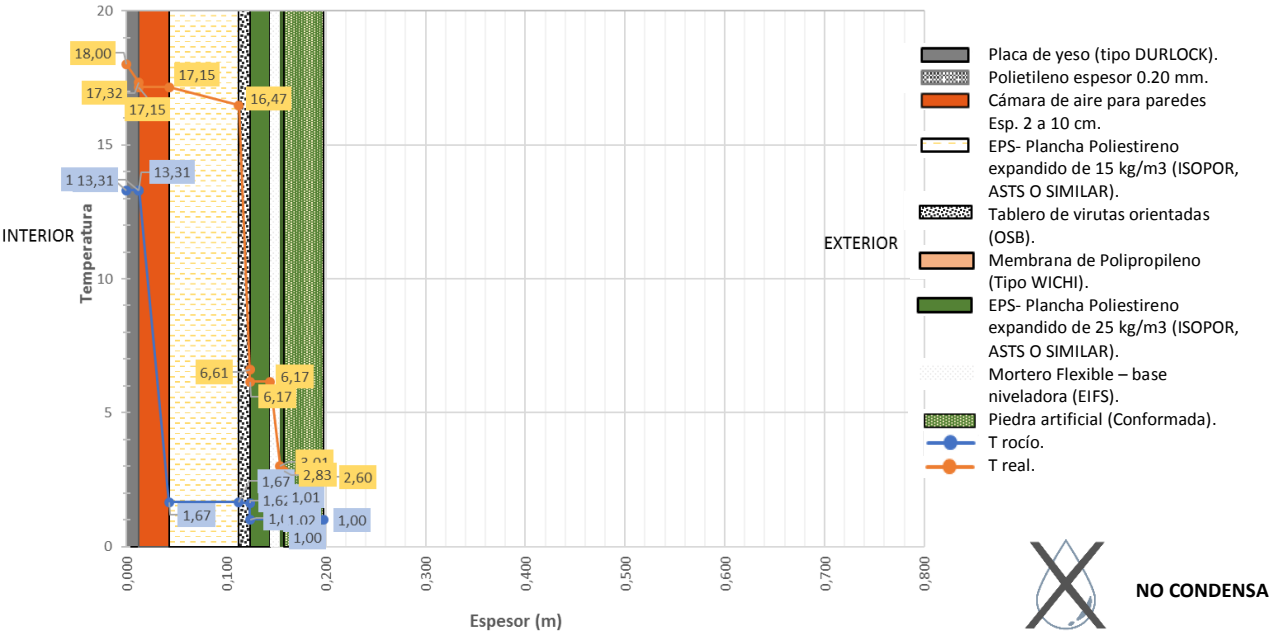
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,34 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



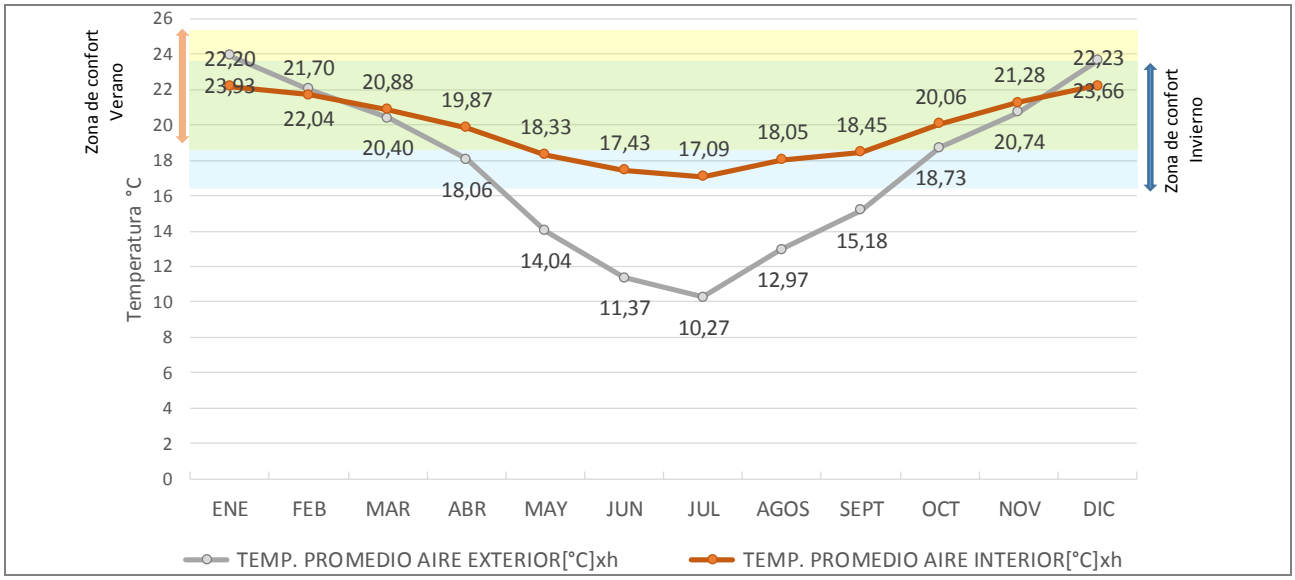

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 10,5 | 4,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,5** | **7,8** |
| | **Amortiguamiento:** | 0,010 | 0,055 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,0** | **4,5** |
| | **Amortiguamiento:** | 0,043 | 0,306 |

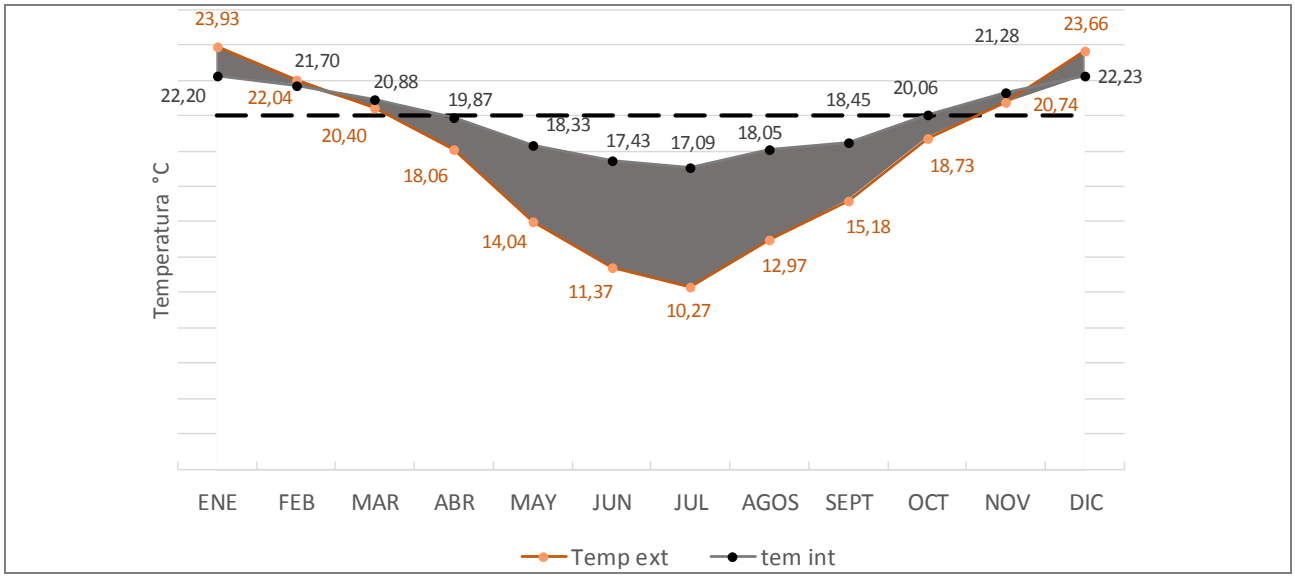
| STL-050 | MU | STEEL FRAME |
|---|---|---|

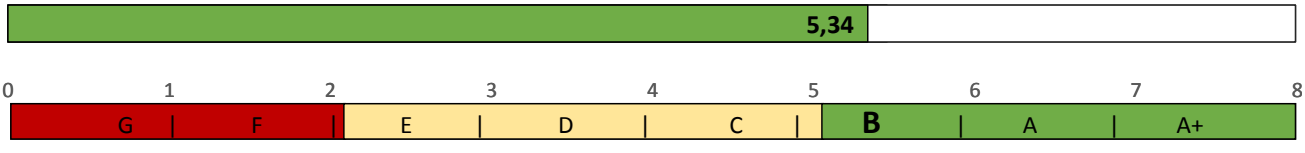
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,90** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,56** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



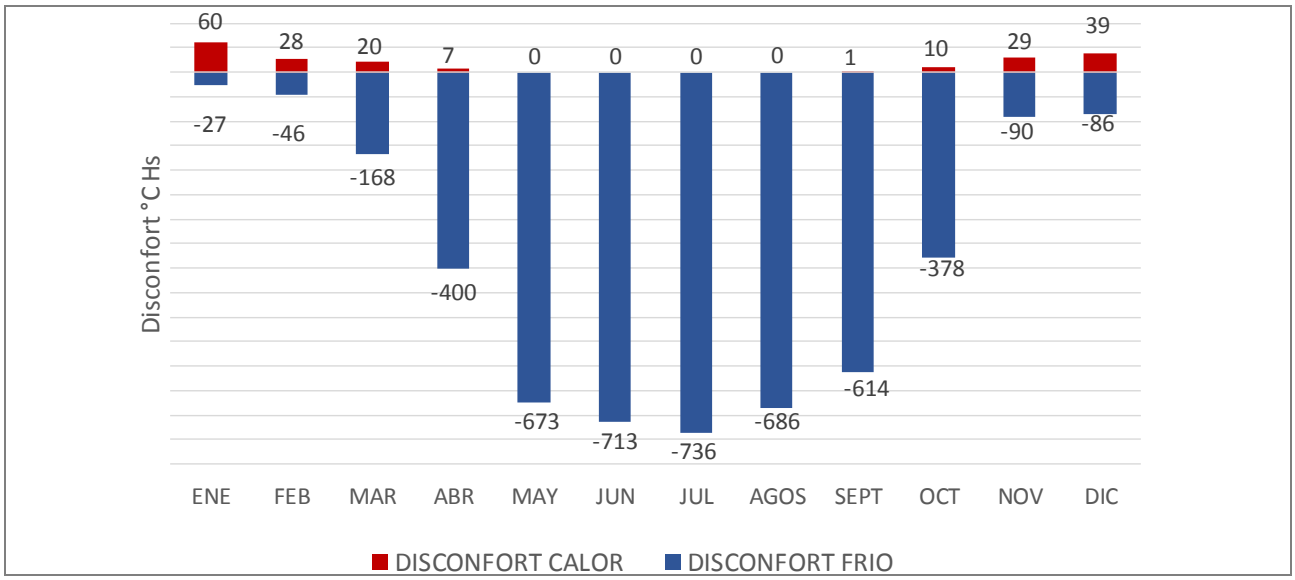




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-050 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

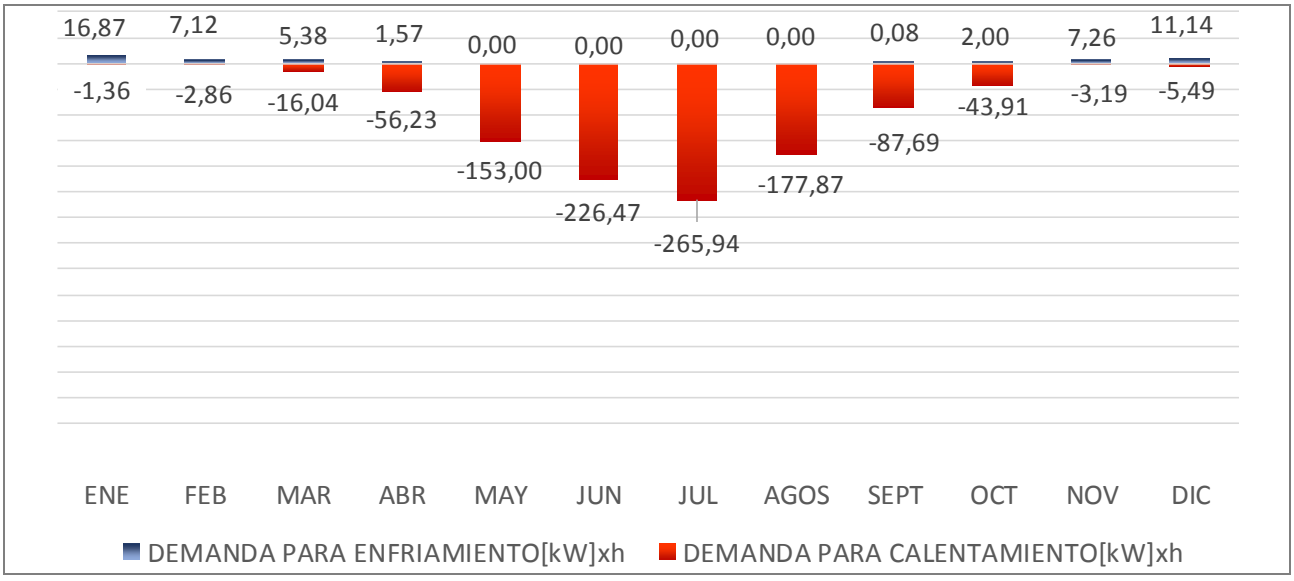
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **194** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.616** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.810** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

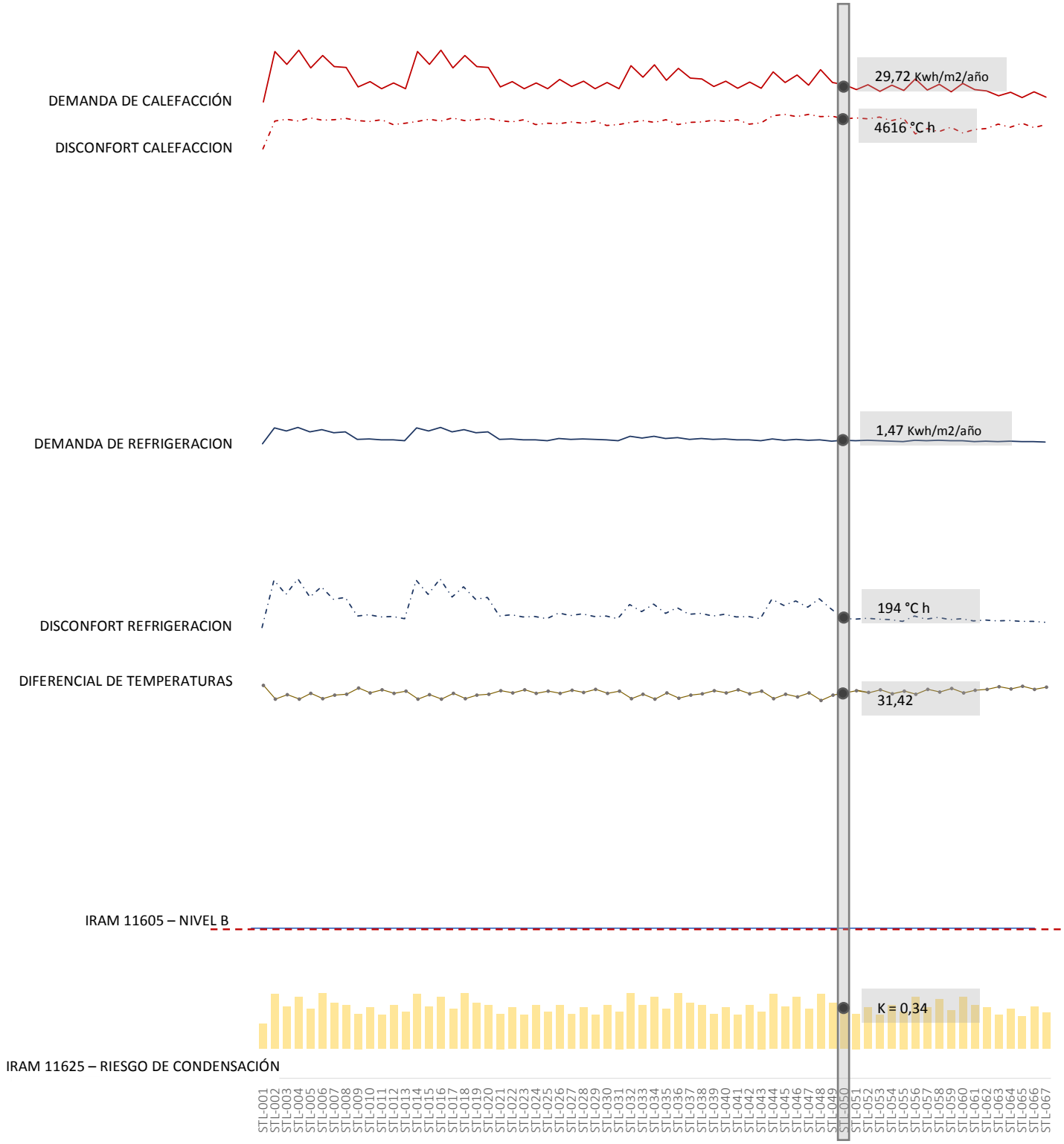



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **51,42** | kWh | 1,47 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.040,06** | kWh | 29,72 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.091,47** | kWh | **31,18** | kWh/m2/año |

| STL-050 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 041 | N° 046 | N° 054 | N° 097 | N° 176 | N° 084 |



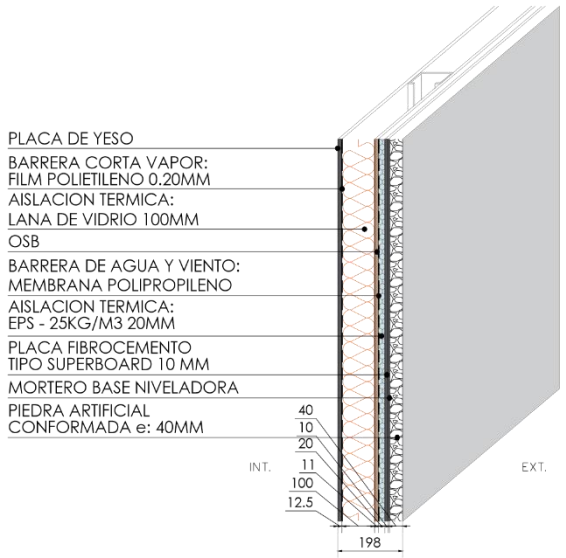

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,34 | 0% | 31,42 | 29,72 | 1,47 | 4616 | 194 |
| INC. FAMILIA | 96,28% | 0% | 100,32% | 93,28% | 58,71% | 100,47% | 68,92% |
| INC. MUNDIAL | 28,59% | 0% | 101,97% | 72,27% | 24,49% | 103,46% | 37,95% |

| STL-051 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

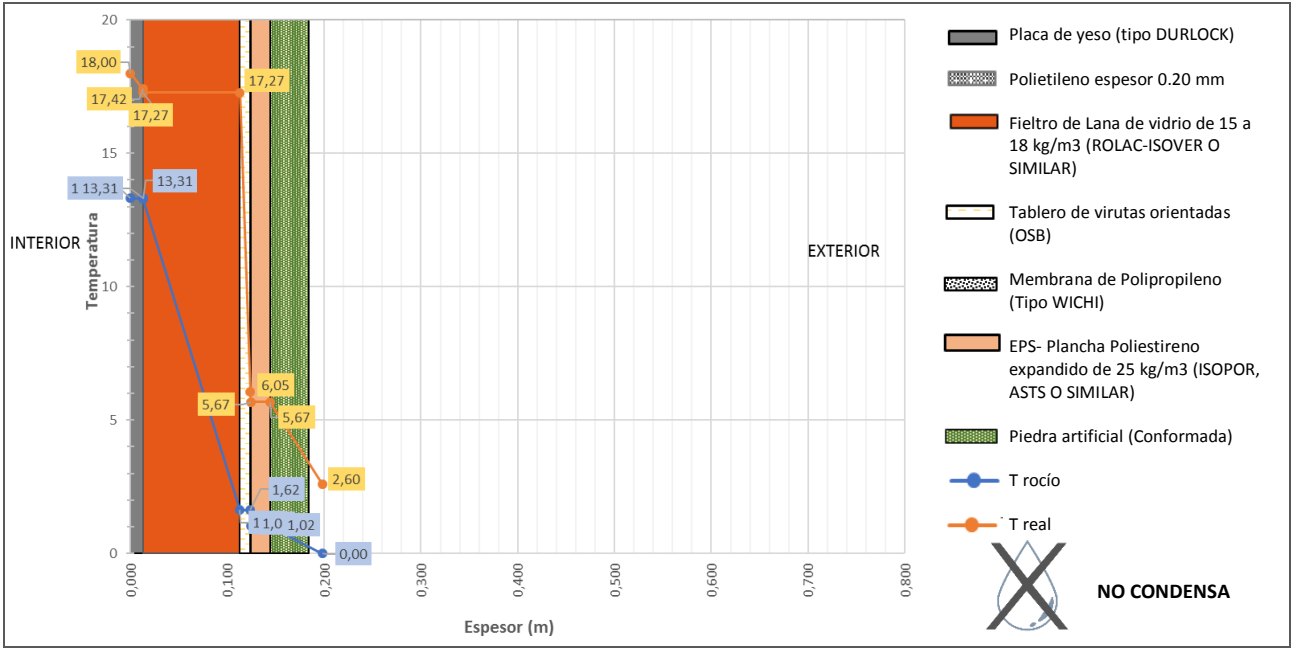
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,29 | 0,29 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



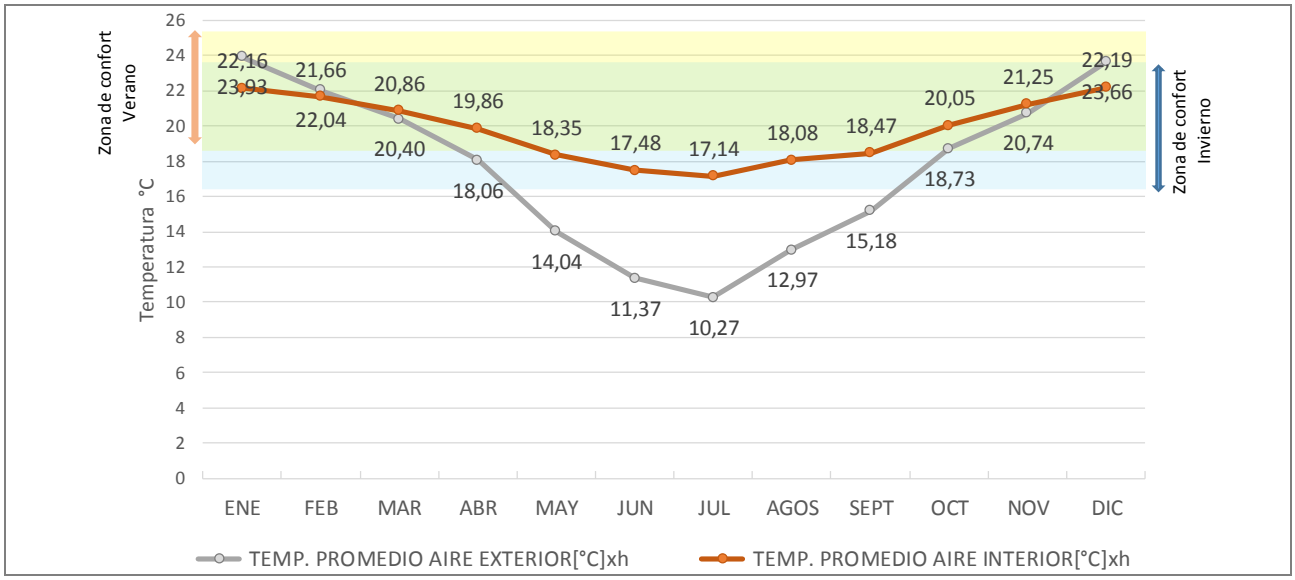

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 10,5 | 4,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,5** | **7,8** |
| | **Amortiguamiento:** | 0,010 | 0,055 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,0** | **4,5** |
| | **Amortiguamiento:** | 0,043 | 0,306 |

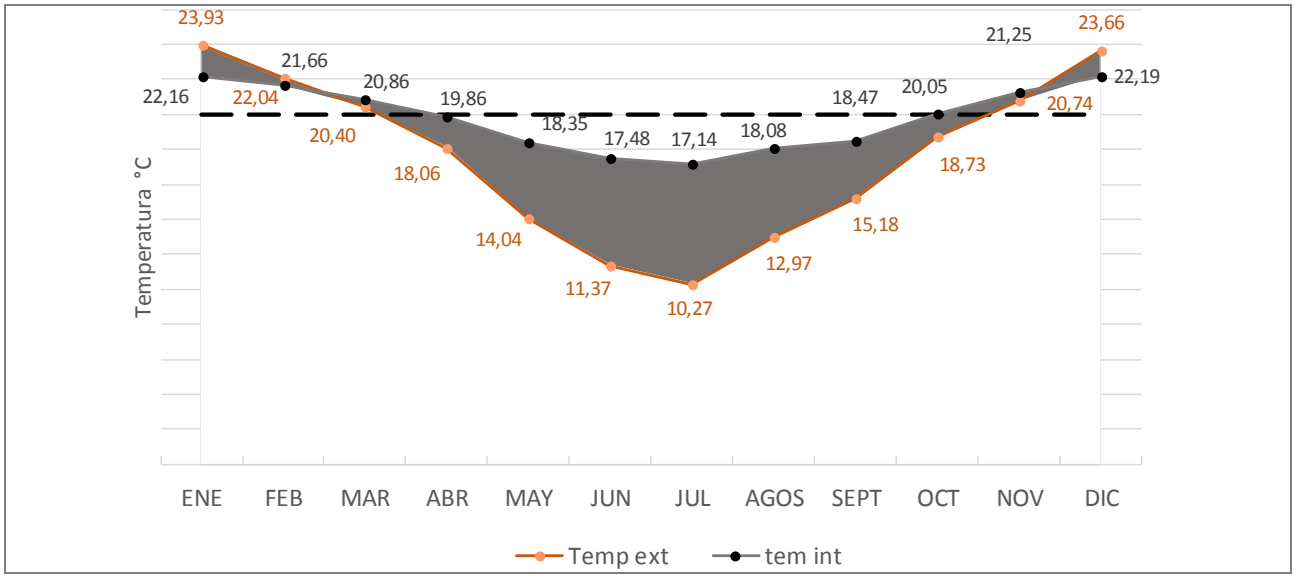
| STL-051 | MU | STEEL FRAME |
|---|---|---|

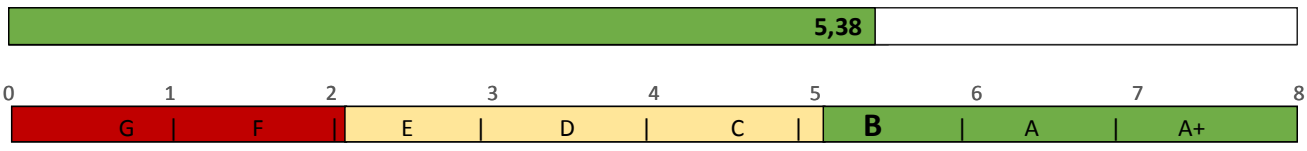
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,78** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,69** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



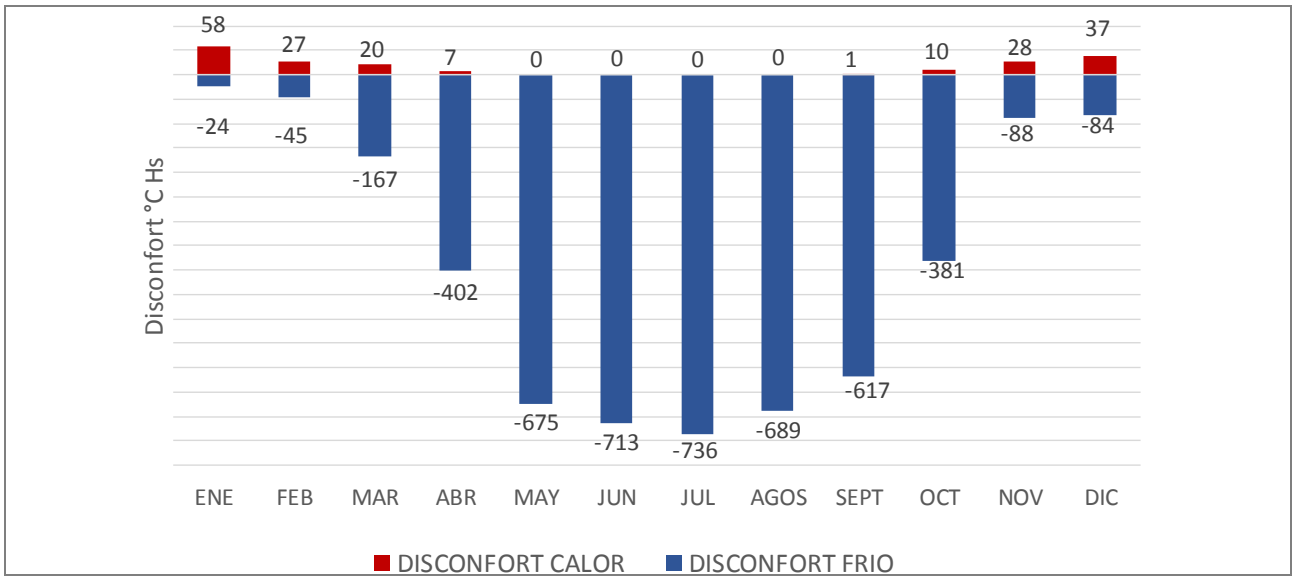




5,38 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-051 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

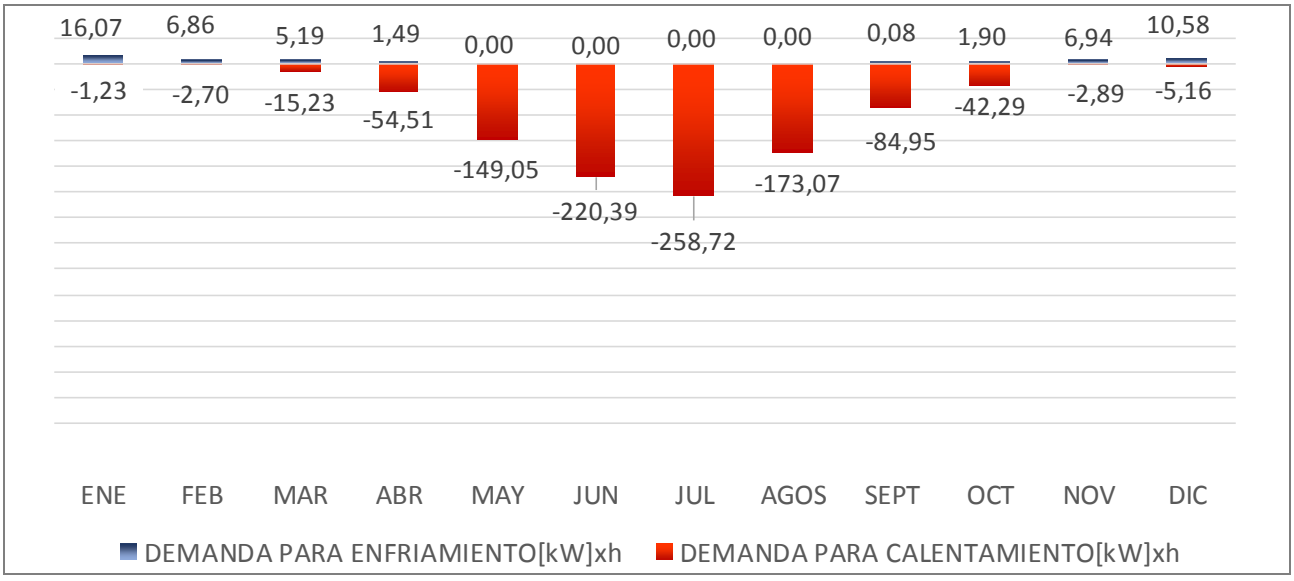
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **188** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.621** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.808** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

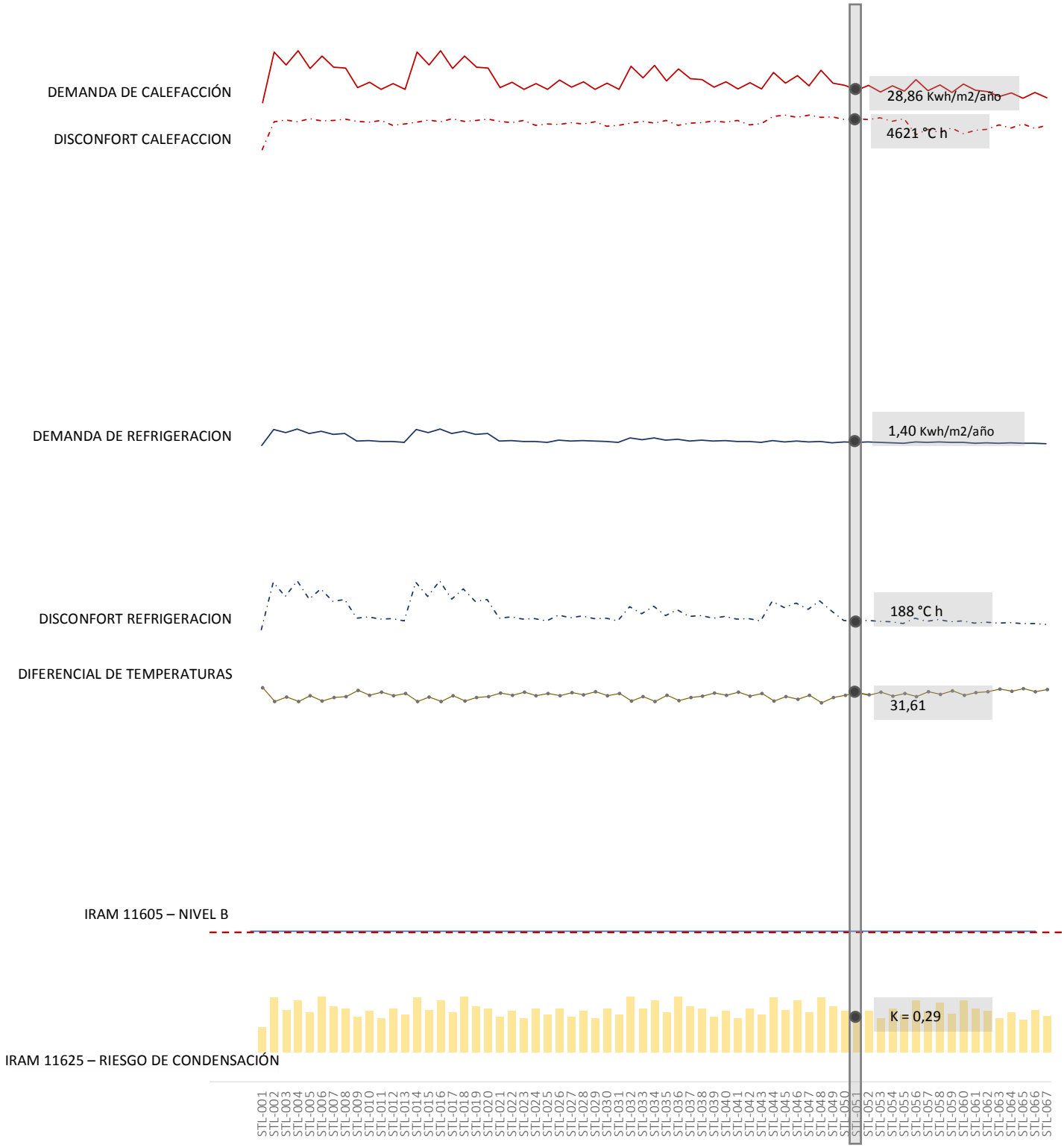



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **49,11** | kWh | 1,40 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.010,18** | kWh | 28,86 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.059,29** | kWh | **30,27** | kWh/m2/año |

| STL-051 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. |
|---|---|---|---|---|---|
| | N° 017 | N° 030 | N° 024 | N° 090 | N° 182 |



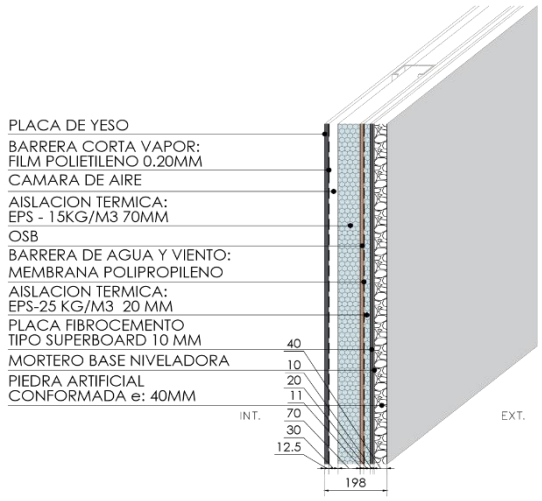

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,29 | 0% | 31,61 | 28,86 | 1,4 | 4621 | 188 |
| INC. FAMILIA | 82,12% | 0% | 100,93% | 90,58% | 55,91% | 100,58% | 66,79% |
| INC. MUNDIAL | 24,38% | 0% | 102,58% | 70,18% | 23,33% | 103,57% | 36,78% |

| STL-052 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

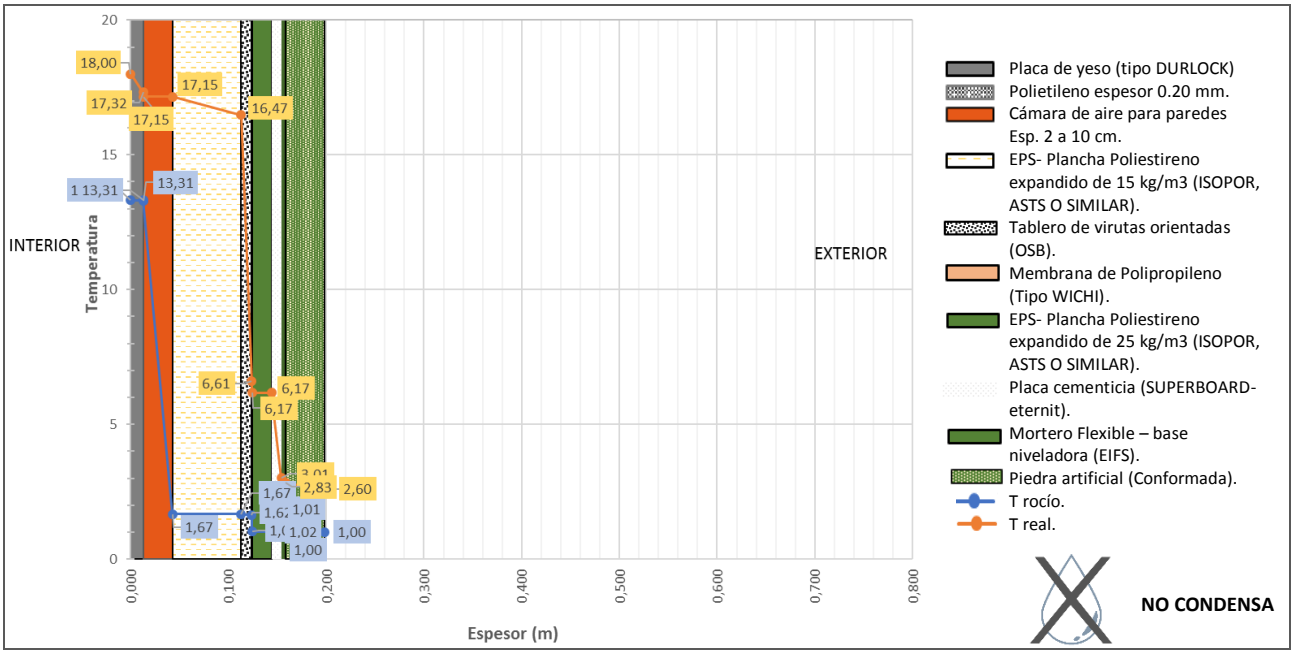
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,34 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




**NO CONDENSA**

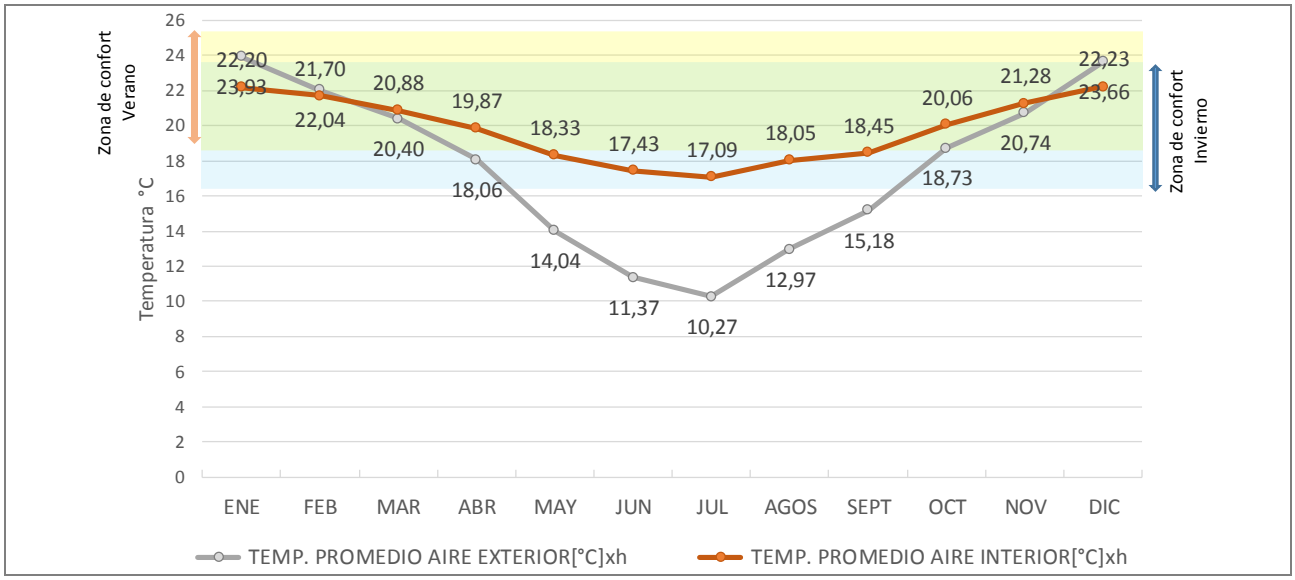
## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 10,5 | Invierno 4,1 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,5** | **7,8** |
| | **Amortiguamiento:** | 0,010 | 0,055 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,0** | **4,5** |
| | **Amortiguamiento:** | 0,043 | 0,306 |

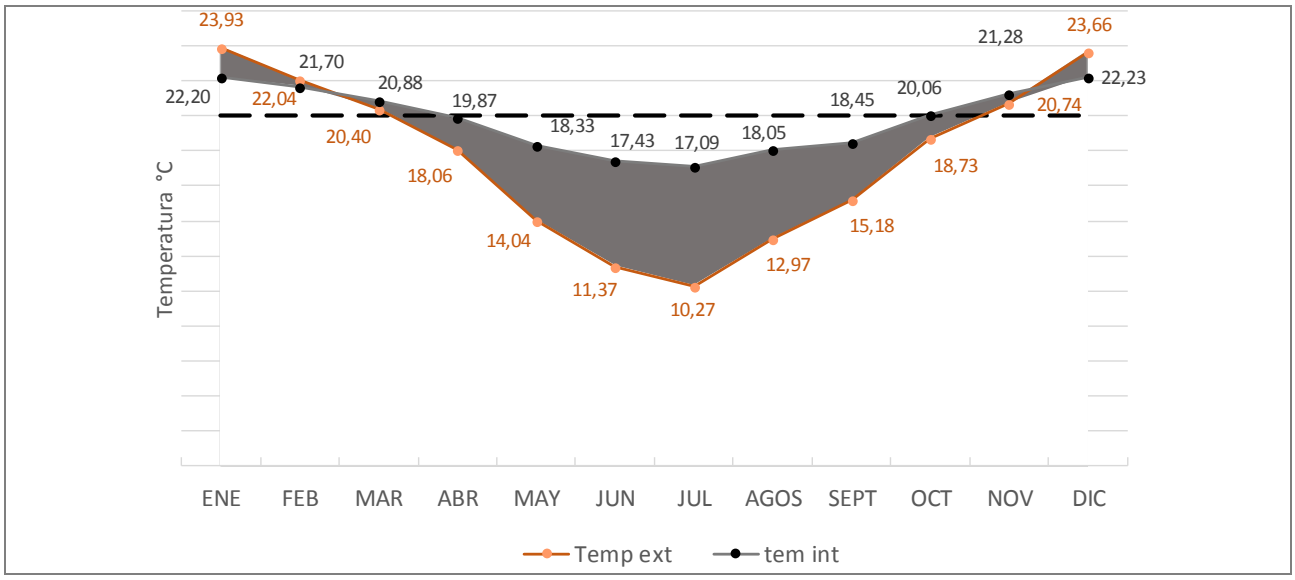
| STL-052 | MU | STEEL FRAME |
|---|---|---|

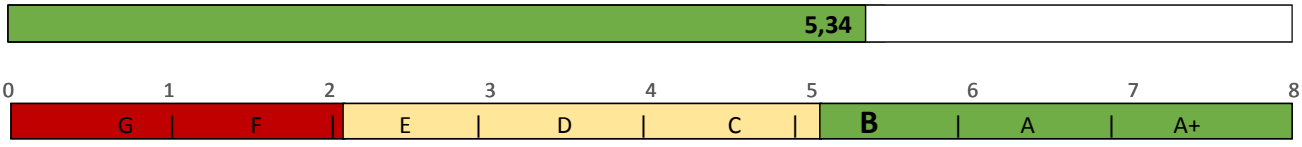
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/15 18:00 hs | **24,90** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,56** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



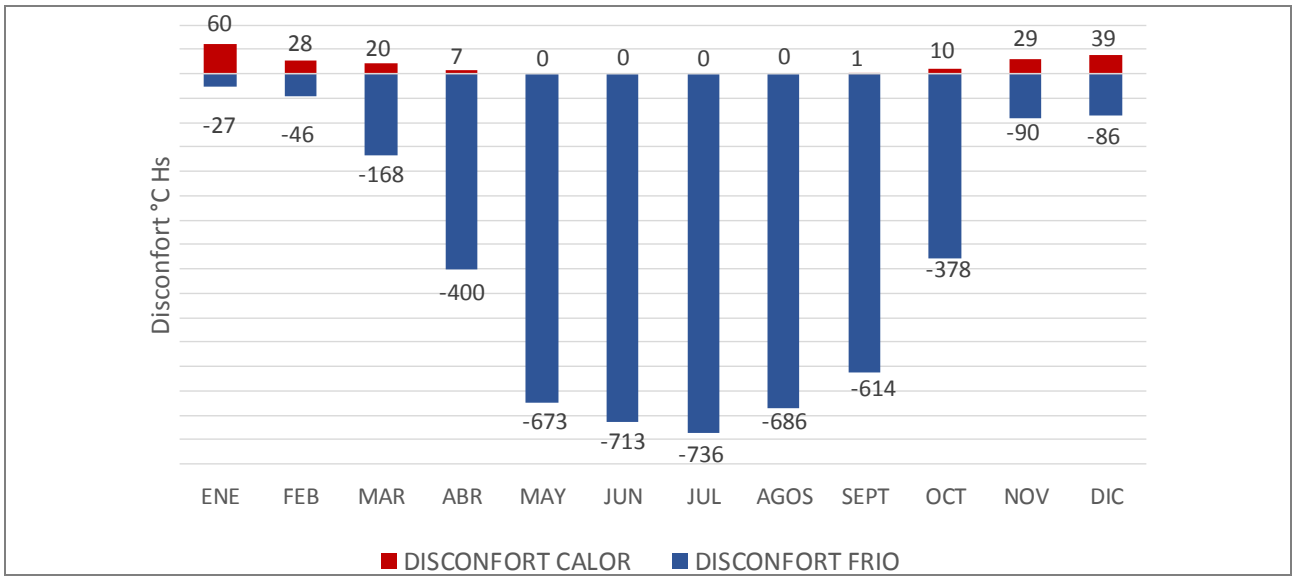




5,34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-052 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

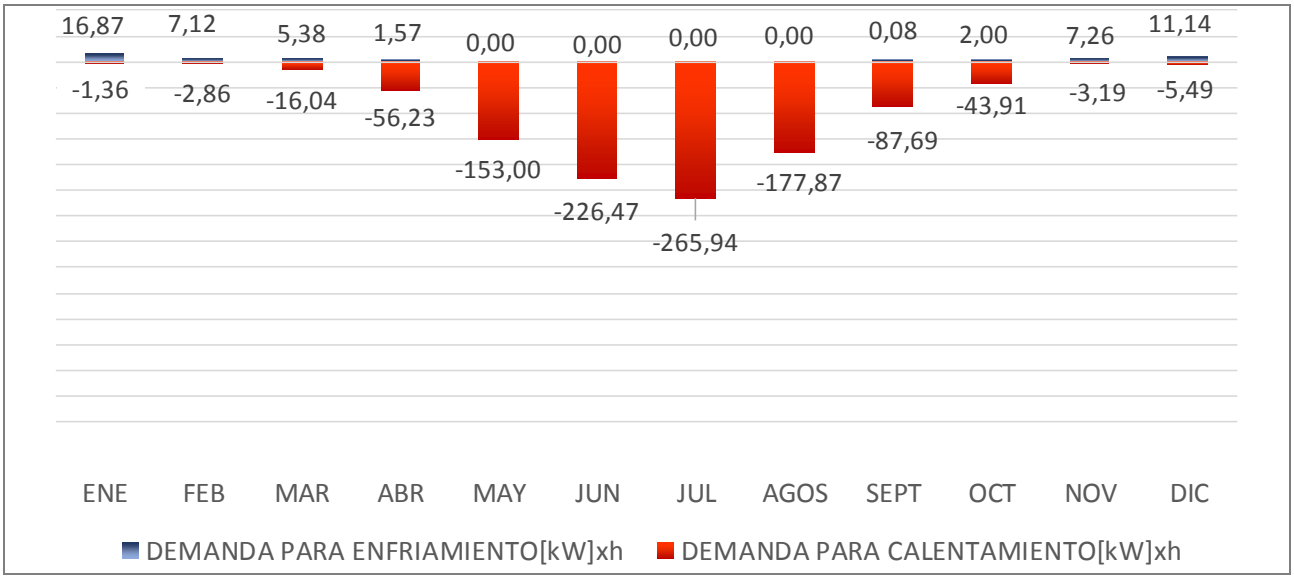
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **194** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.616** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.810** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

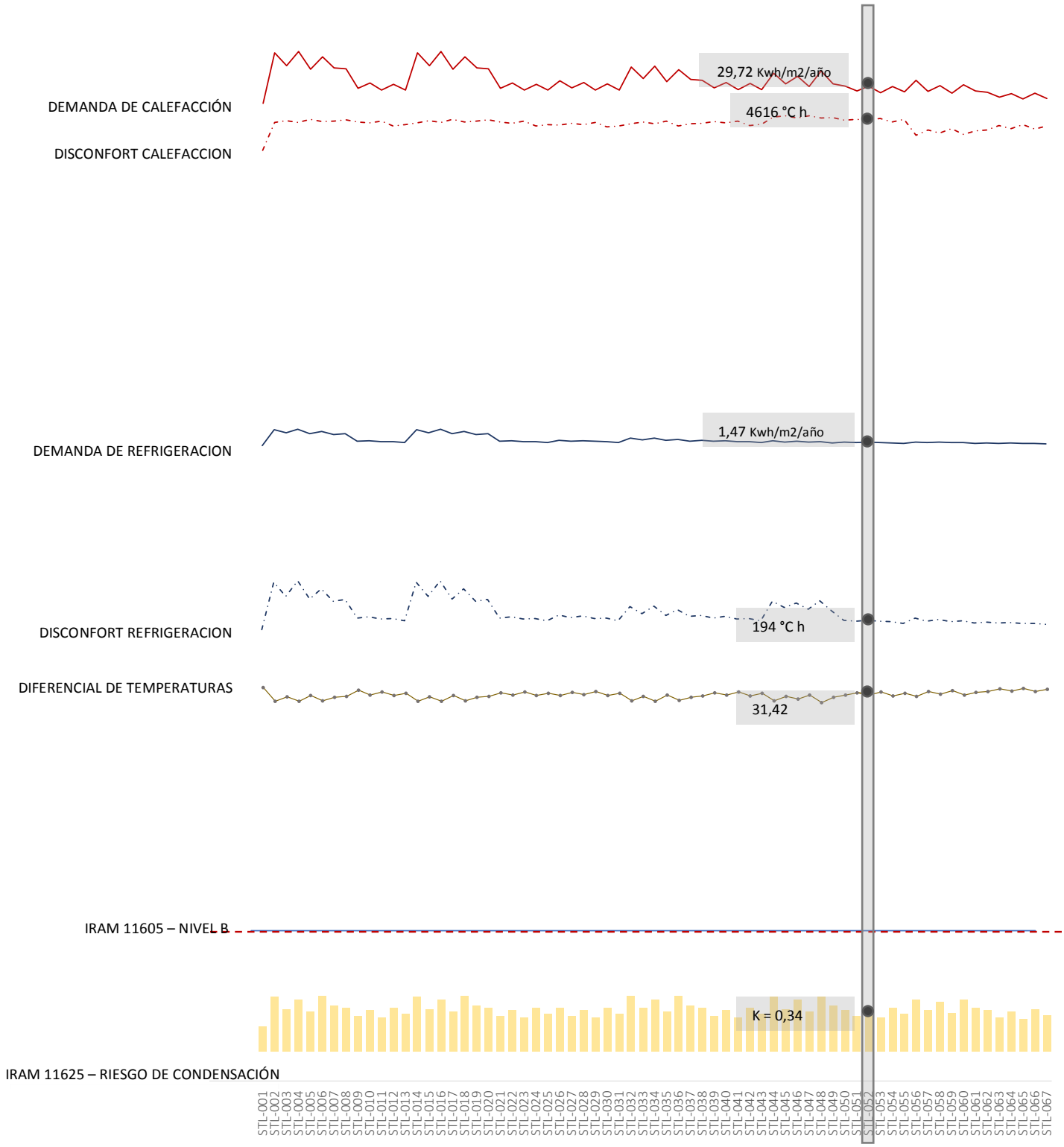



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **51,42** | kWh | 1,47 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.040,06** | kWh | 29,72 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.091,47** | kWh | **31,18** | kWh/m2/año |

| STL-052 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 042 | N° 047 | N° 055 | N° 098 | N° 177 | N° 085 |



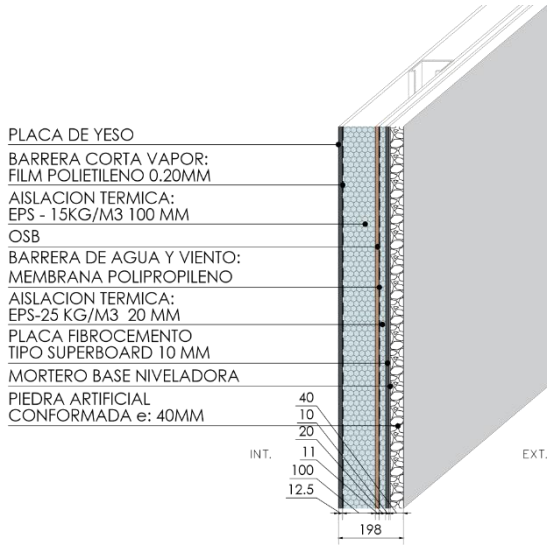

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,34 | 0% | 31,42 | 29,72 | 1,47 | 4616 | 194 |
| INC. FAMILIA | 96,28% | 0% | 100,32% | 93,28% | 58,71% | 100,47% | 68,92% |
| INC. MUNDIAL | 28,59% | 0% | 101,97% | 72,27% | 24,49% | 103,46% | 37,95% |

| STL-053 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

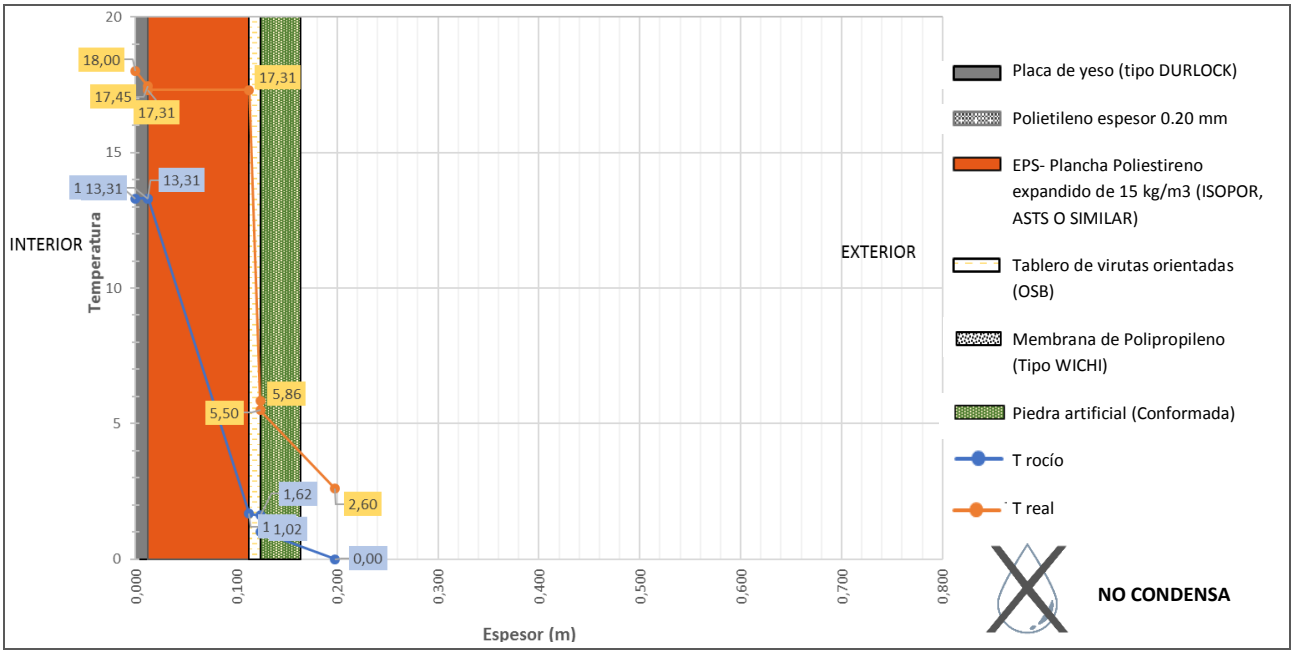
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,28 | 0,28 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



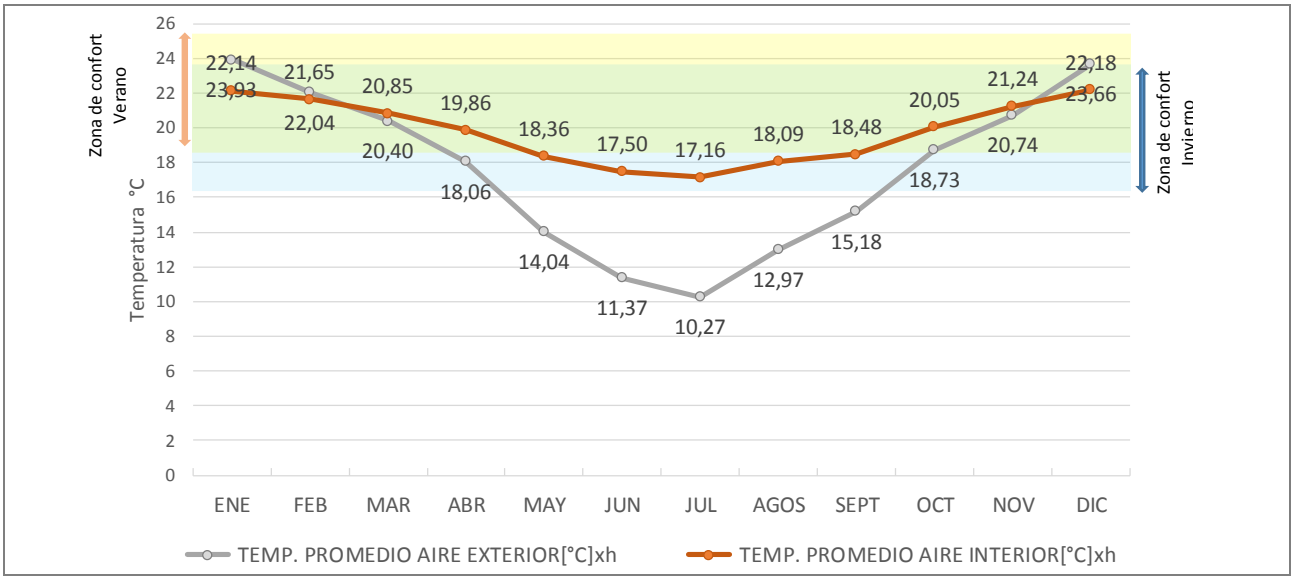

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 8,4 | 3,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **13,9** | **8,7** |
| | **Amortiguamiento:** | 0,006 | 0,040 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **13,4** | **4,9** |
| | **Amortiguamiento:** | 0,030 | 0,277 |

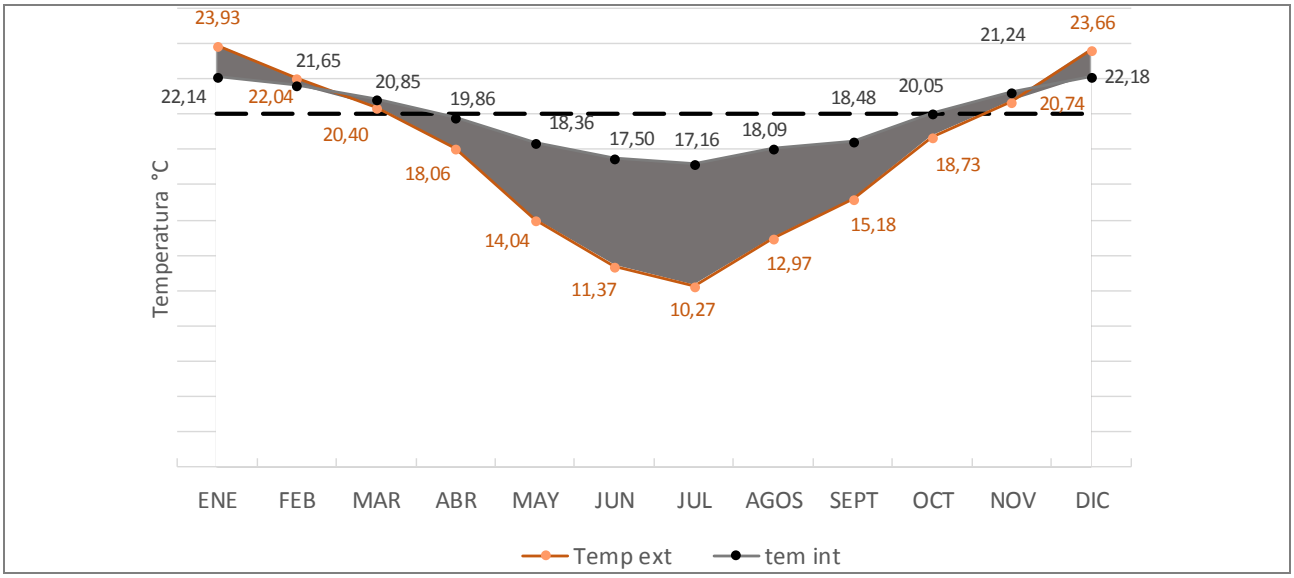
| STL-053 | MU | STEEL FRAME |
|---|---|---|

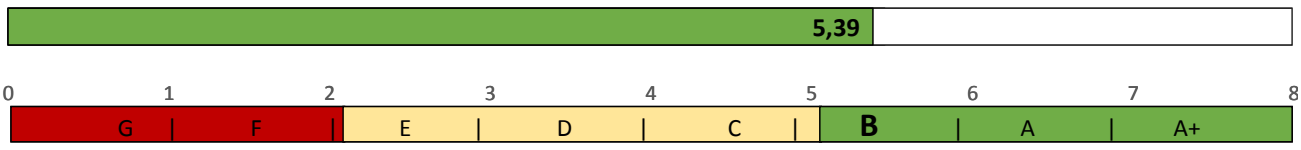
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,74** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,74** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



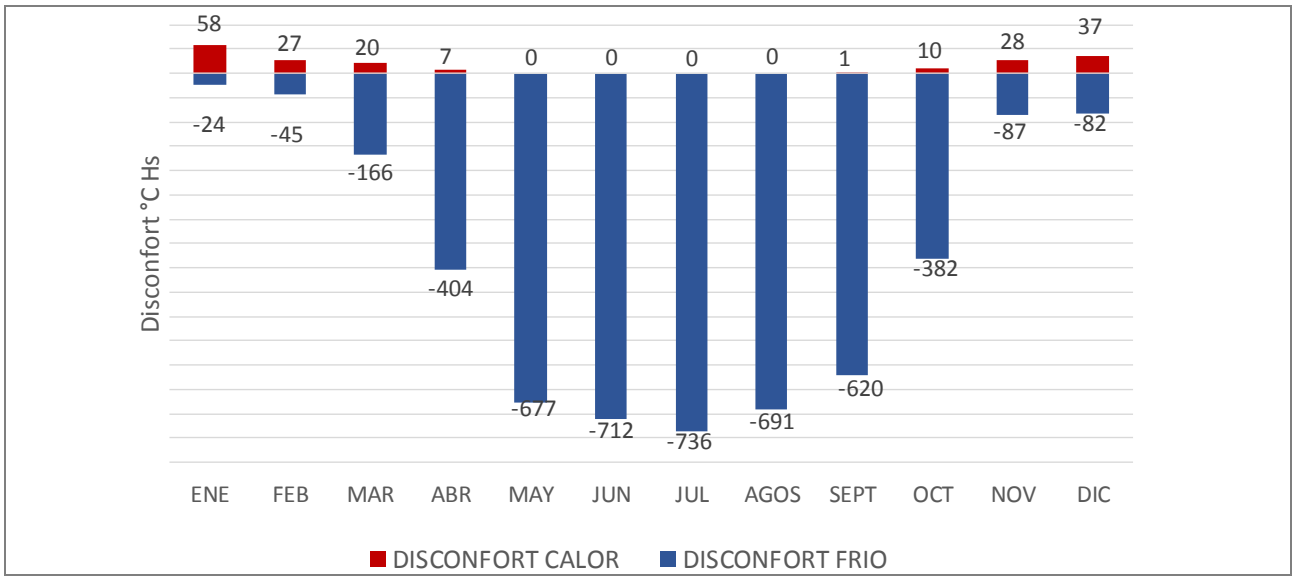




5,39 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-053 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

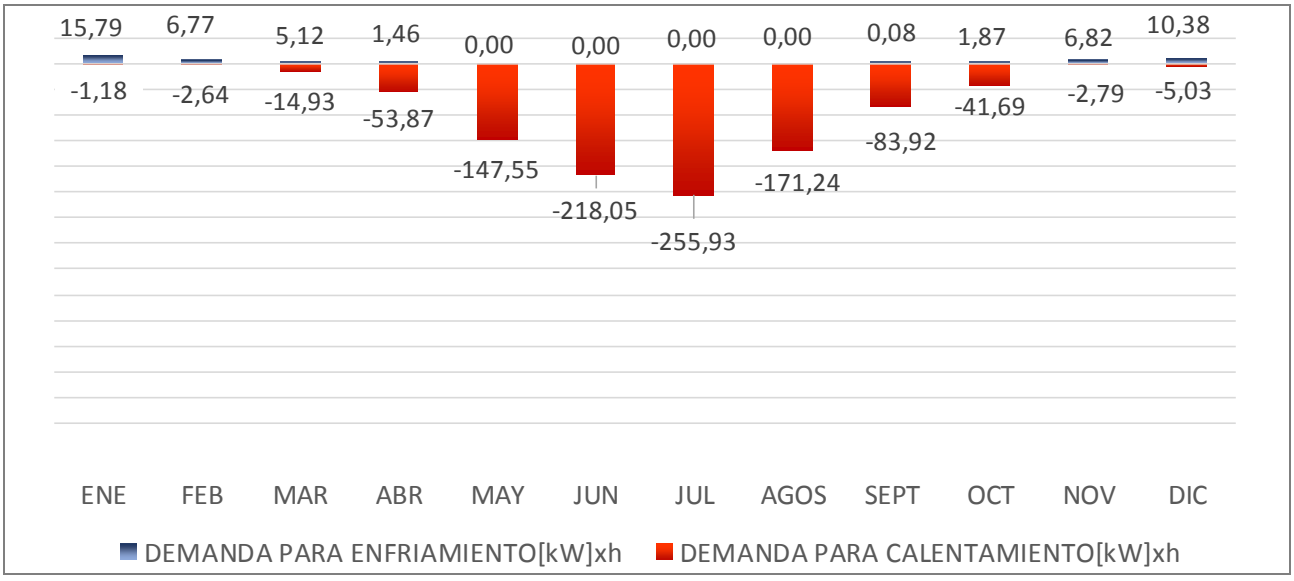
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **186** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.626** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.812** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

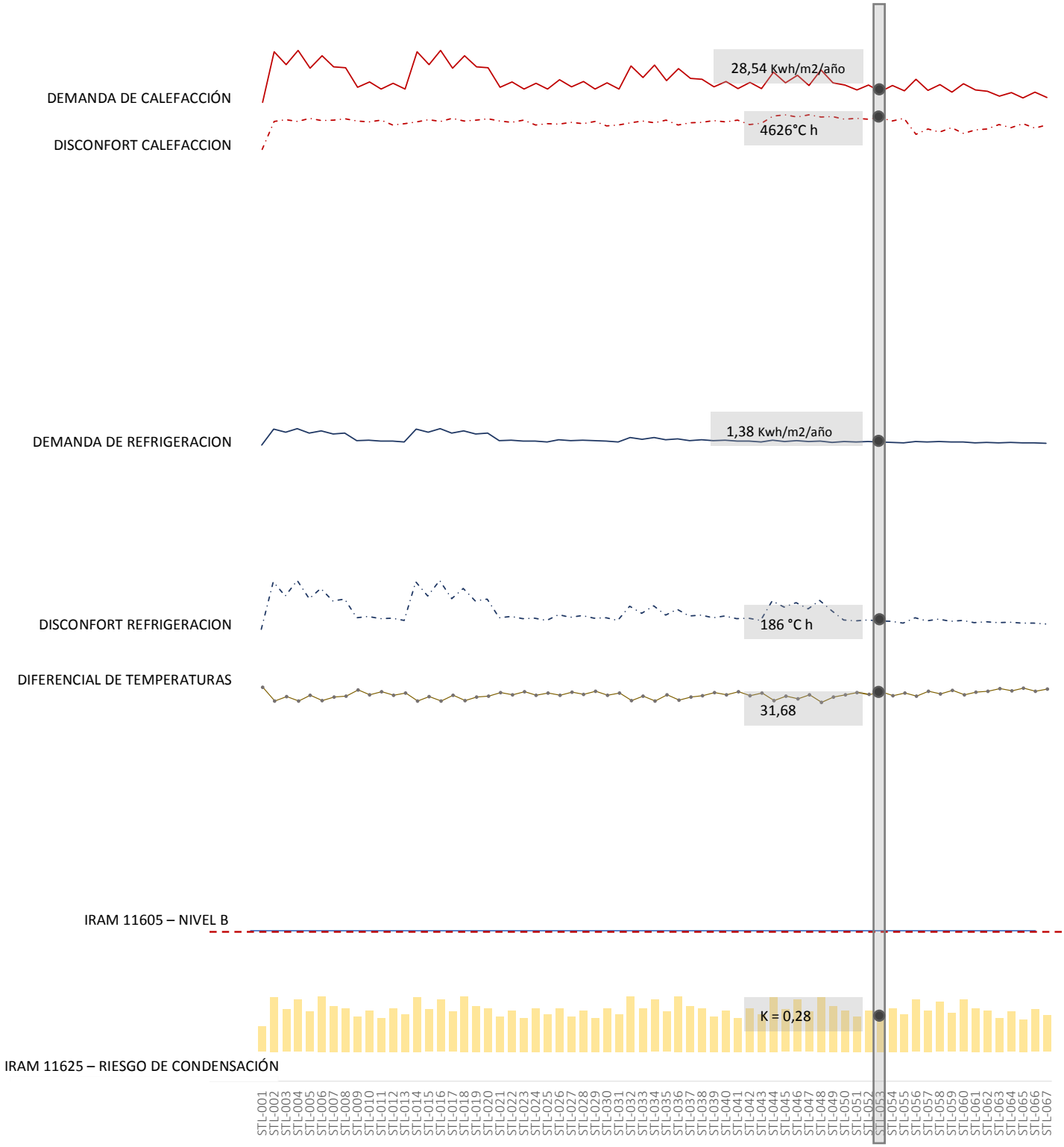



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **48,29** | kWh | 1,38 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **998,82** | kWh | 28,54 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.047,12** | kWh | **29,92** | kWh/m2/año |

| STL-053 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 011 | N° 023 | N° 014 | N° 088 | N° 184 | N° 067 |



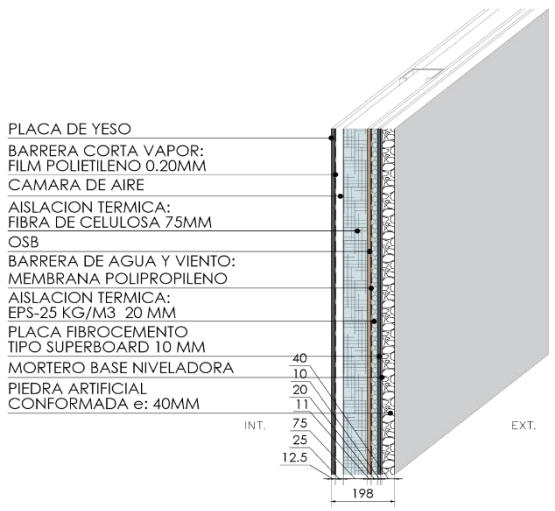

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,28 | | 31,68 | 28,54 | 1,38 | 4626 | 186 |
| INC. FAMILIA | 79,29% | 0% | 101,15% | 89,57% | 55,11% | 100,69% | 66,08% |
| INC. MUNDIAL | 23,54% | 0% | 102,81% | 69,40% | 22,99% | 103,69% | 36,39% |

| STL-054 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

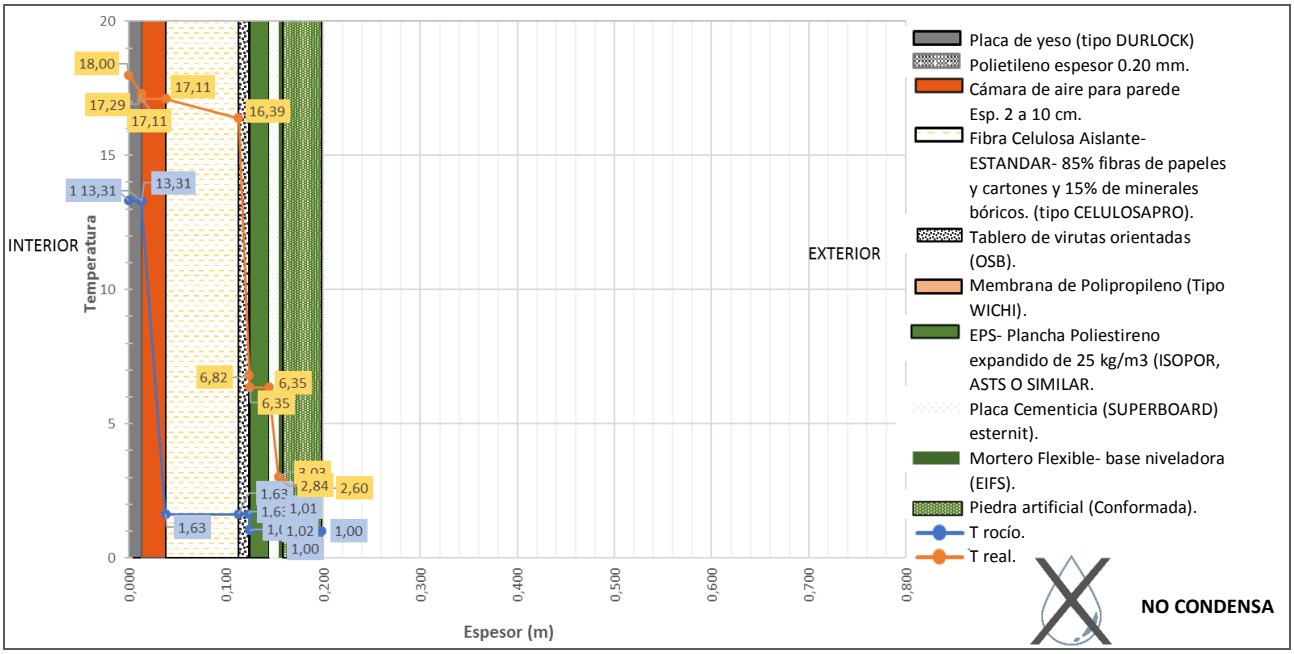
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




**NO CONDENSA**

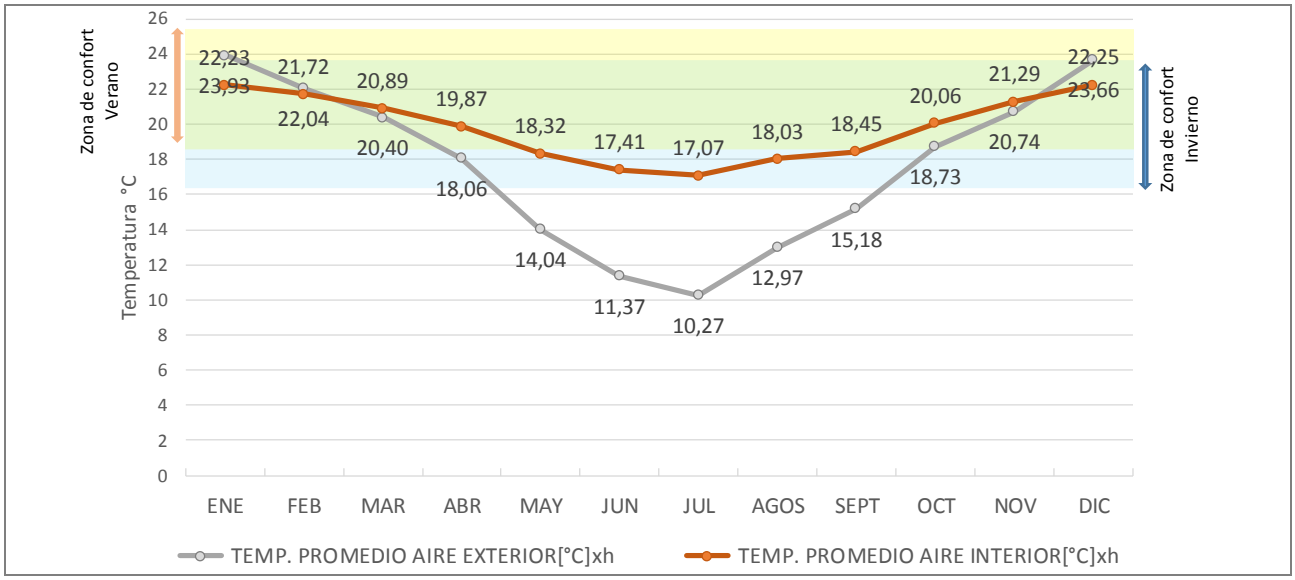
## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 12,3 | Invierno 5,5 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,8** | **8,6** |
| | **Amortiguamiento:** | 0,009 | 0,042 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,0** | **5,3** |
| | **Amortiguamiento:** | 0,043 | 0,247 |

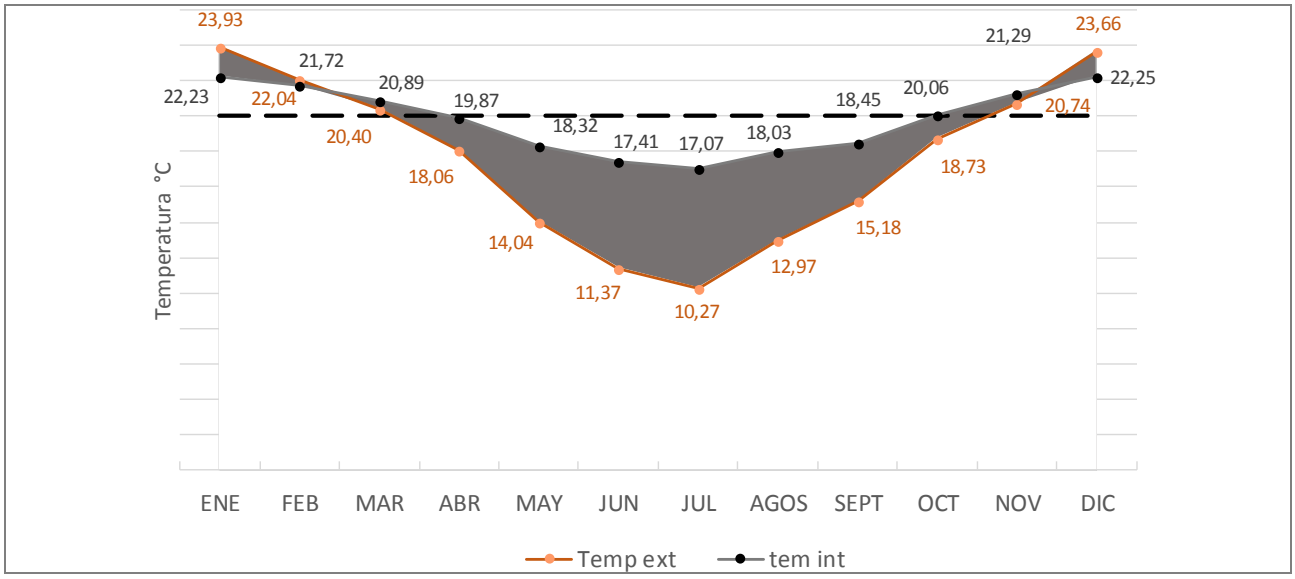
| STL-054 | MU | STEEL FRAME |
|---|---|---|

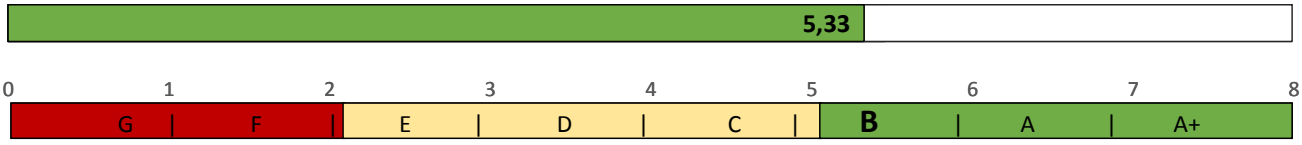
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,75** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,65** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



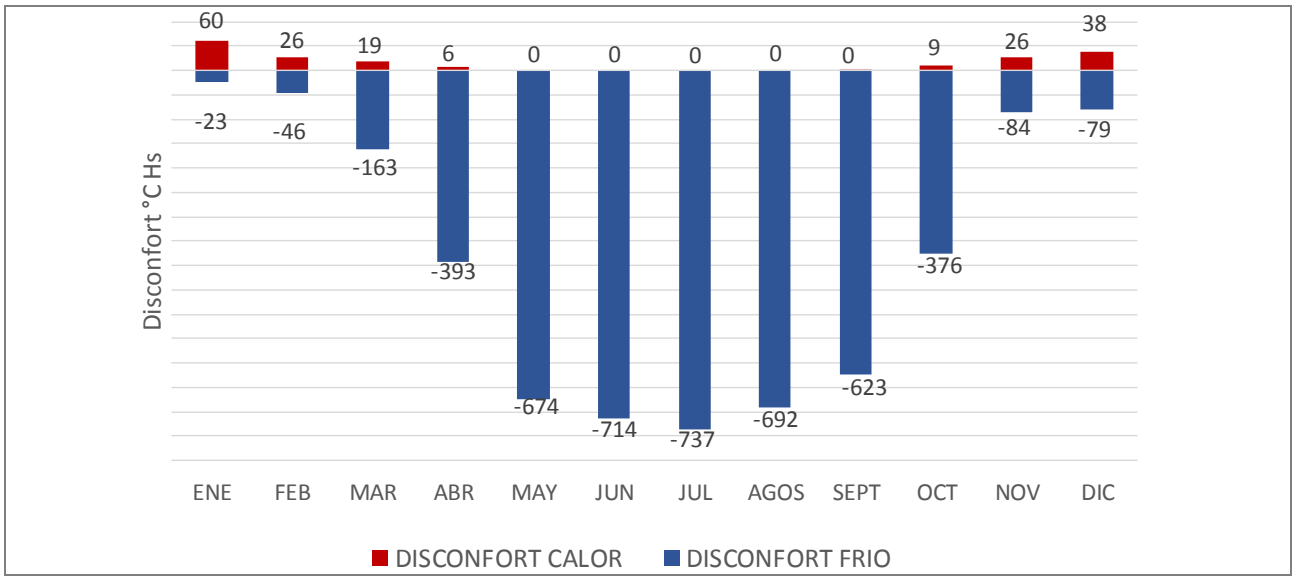




5,33 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-054 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

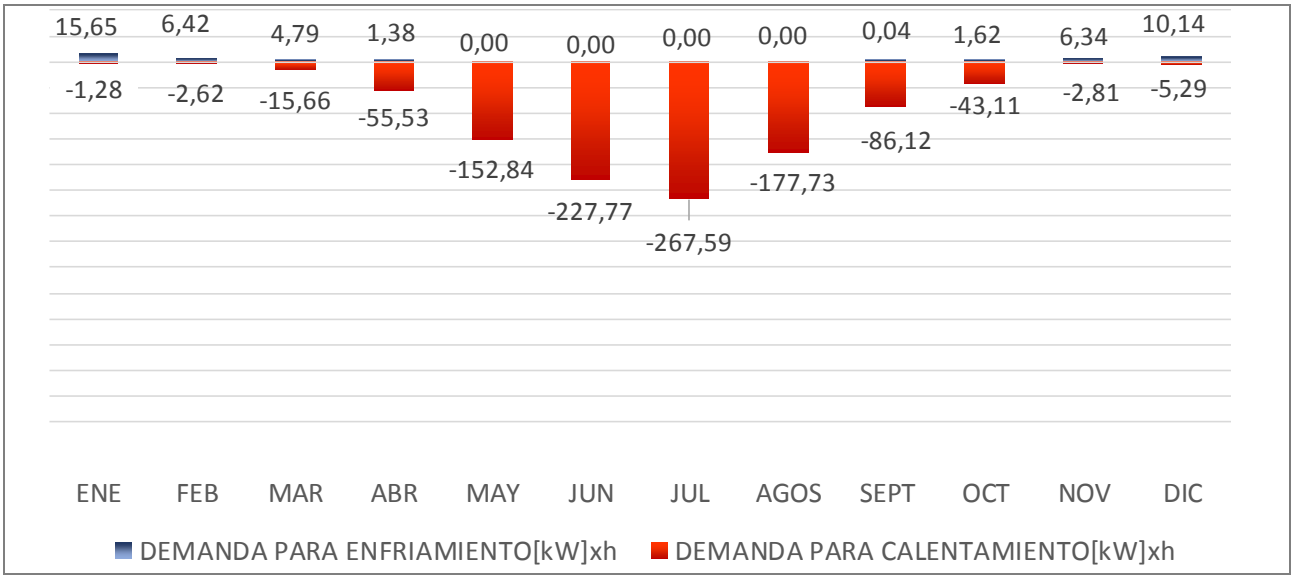
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **184** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.604** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.789** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

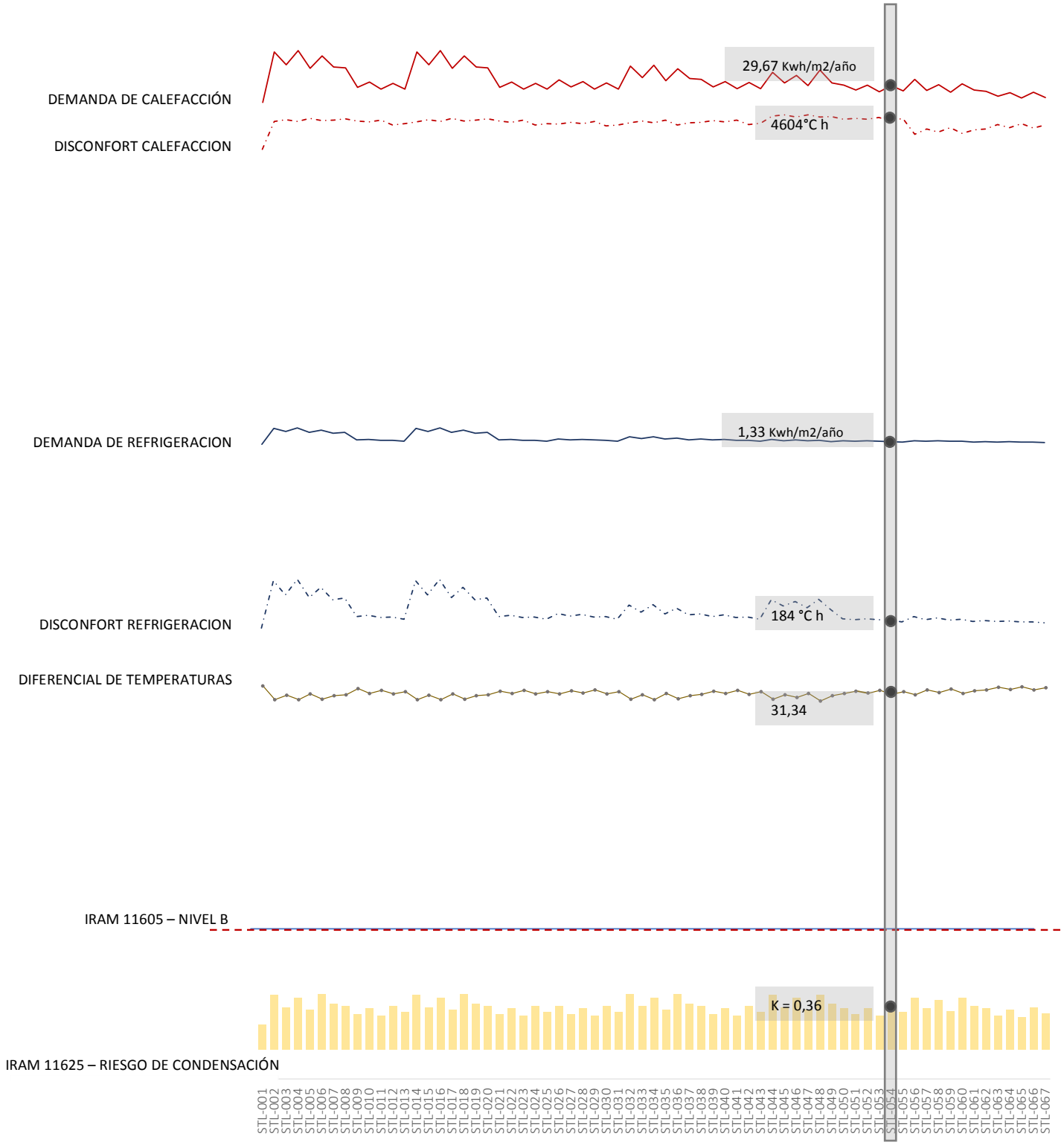



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **46,38** | kWh | 1,33 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.038,36** | kWh | 29,67 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.084,74** | kWh | **30,99** | kWh/m2/año |

| STL-054 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 059 | N° 065 | N° 053 | N° 081 | N° 162 | N° 064 |



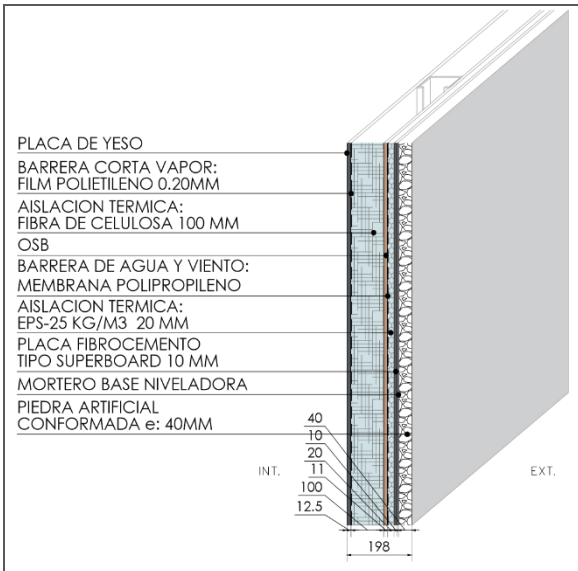

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,36 | 0% | 31,34 | 29,67 | 1,33 | 4604 | 184 |
| INC. FAMILIA | 101,94% | 0% | 100,07% | 93,12% | 53,12% | 100,21% | 65,37% |
| INC. MUNDIAL | 30,27% | 0% | 101,71% | 72,14% | 22,16% | 103,19% | 36,00% |

| STL-055 | MU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EXTERIOR EN SIMIL PIEDRA SOBRE BASE COAT Y MEMBRANA ELASTOMERICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

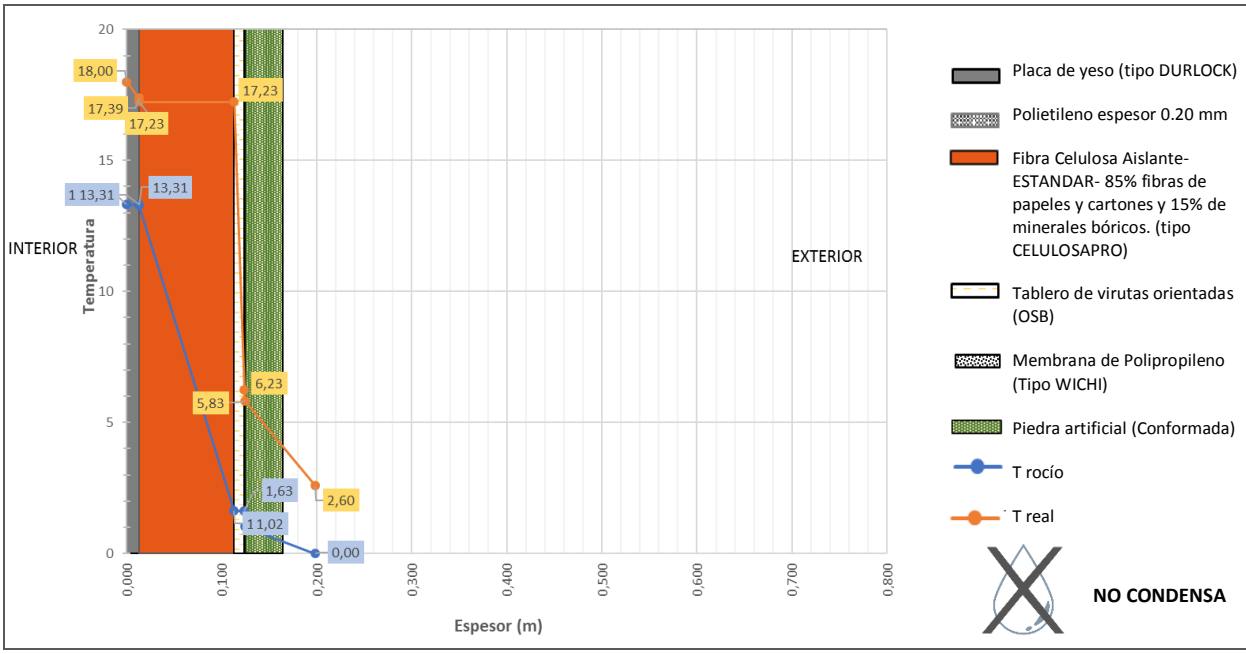
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,31 | 0,31 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



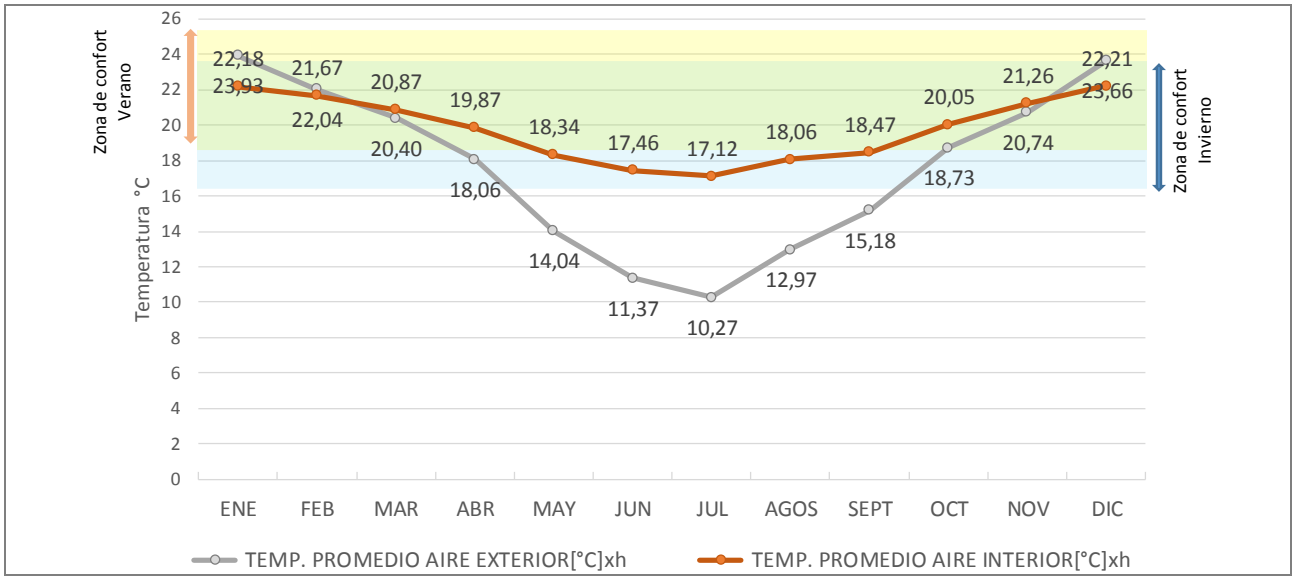

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 12,3 | 5,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,8** | **8,6** |
| | **Amortiguamiento:** | 0,009 | 0,042 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,0** | **5,3** |
| | **Amortiguamiento:** | 0,043 | 0,247 |

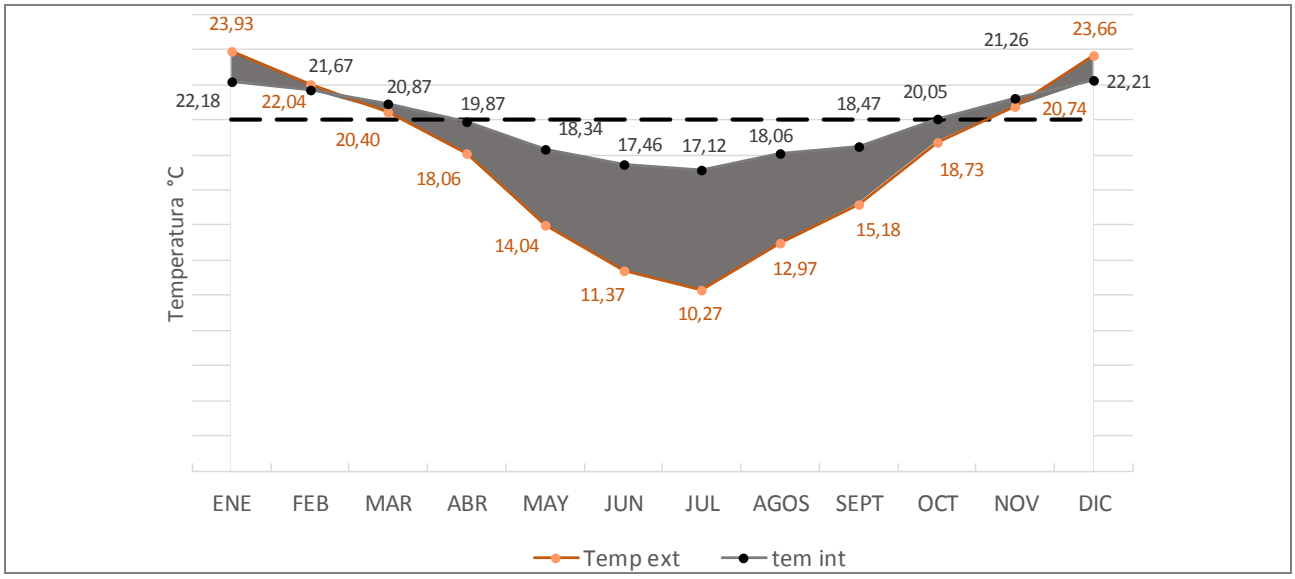
| STL-055 | MU | STEEL FRAME |
|---|---|---|

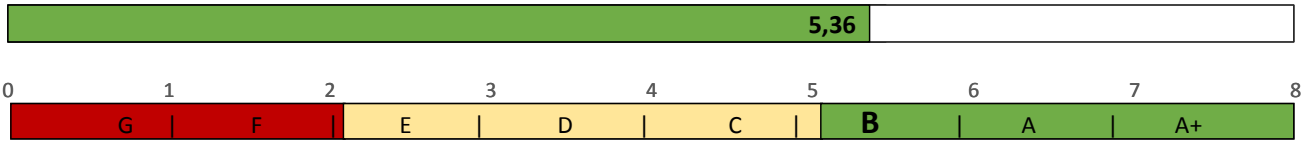
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,59** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 09:00 hs | **14,82** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



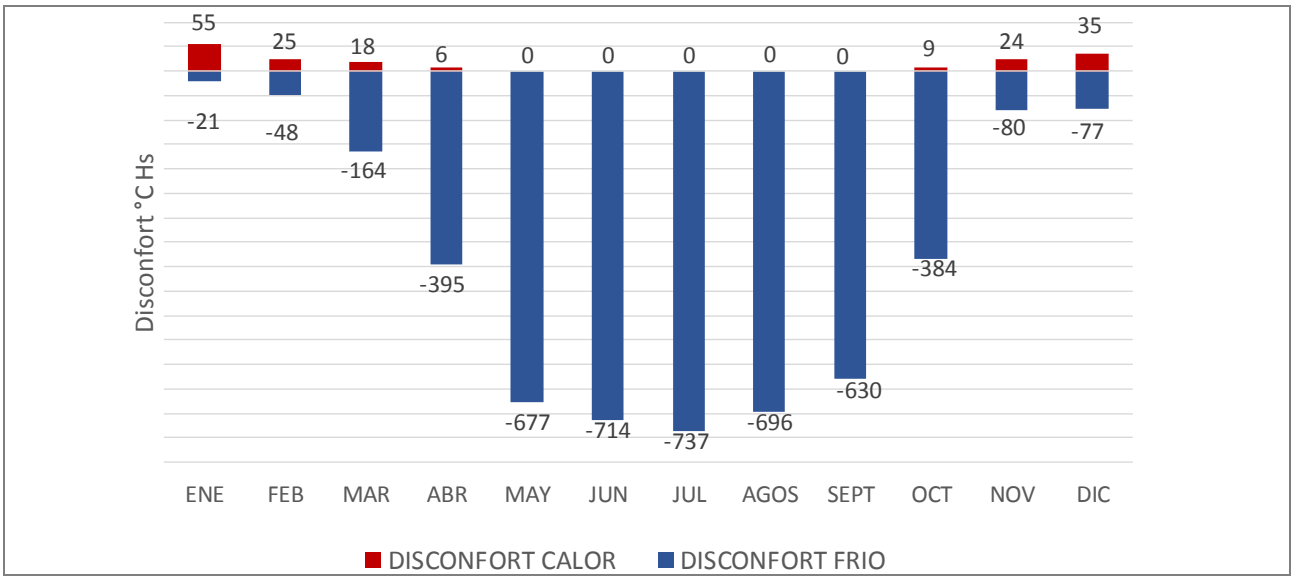




5,36 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-055 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

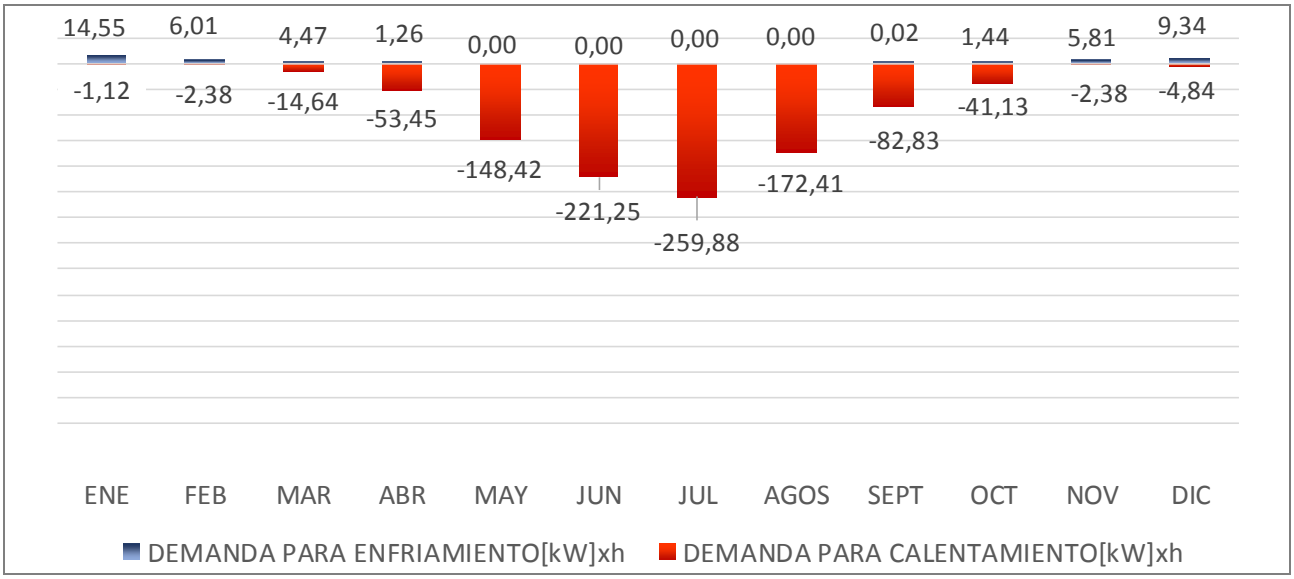
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **171** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.622** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.794** | **°C Hs** | **55%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

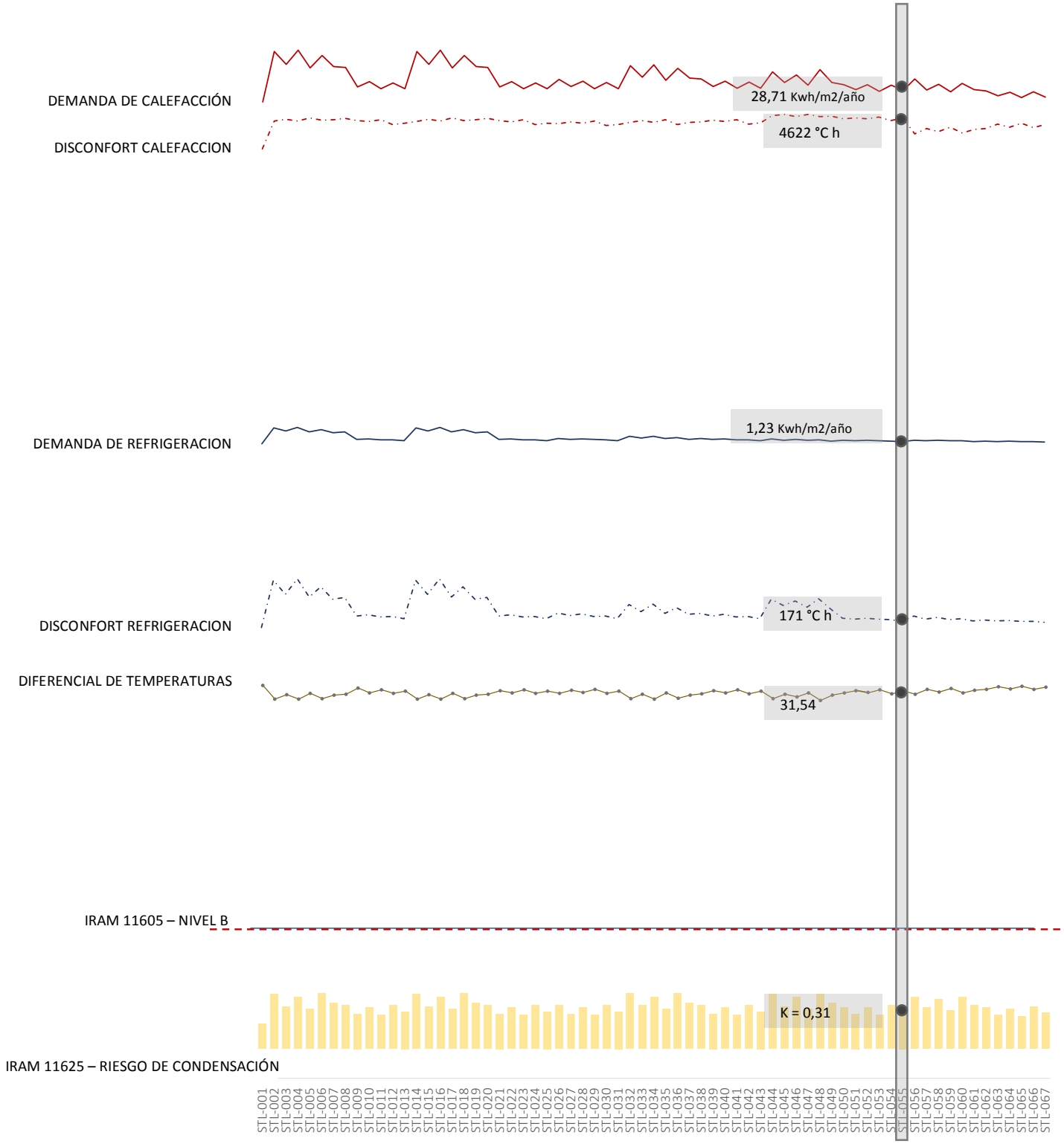



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,91** | kWh | 1,23 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.004,74** | kWh | 28,71 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.047,65** | kWh | **29,93** | kWh/m2/año |

| STL-055 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 024 | N° 038 | N° 020 | N° 067 | N° 183 | N° 049 |



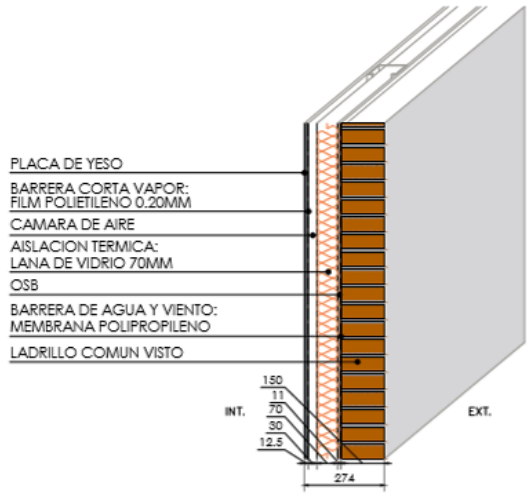

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,31 | 0% | 31,54 | 28,71 | 1,23 | 4622 | 171 |
| INC. FAMILIA | 87,79% | 0% | 100,71% | 90,11% | 49,12% | 100,61% | 60,75% |
| INC. MUNDIAL | 26,06% | 0% | 102,36% | 69,81% | 20,49% | 103,60% | 33,45% |

| STL-056 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 70MM, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA

## INDICE DE TRANSMITANCIA TERMICA "K"

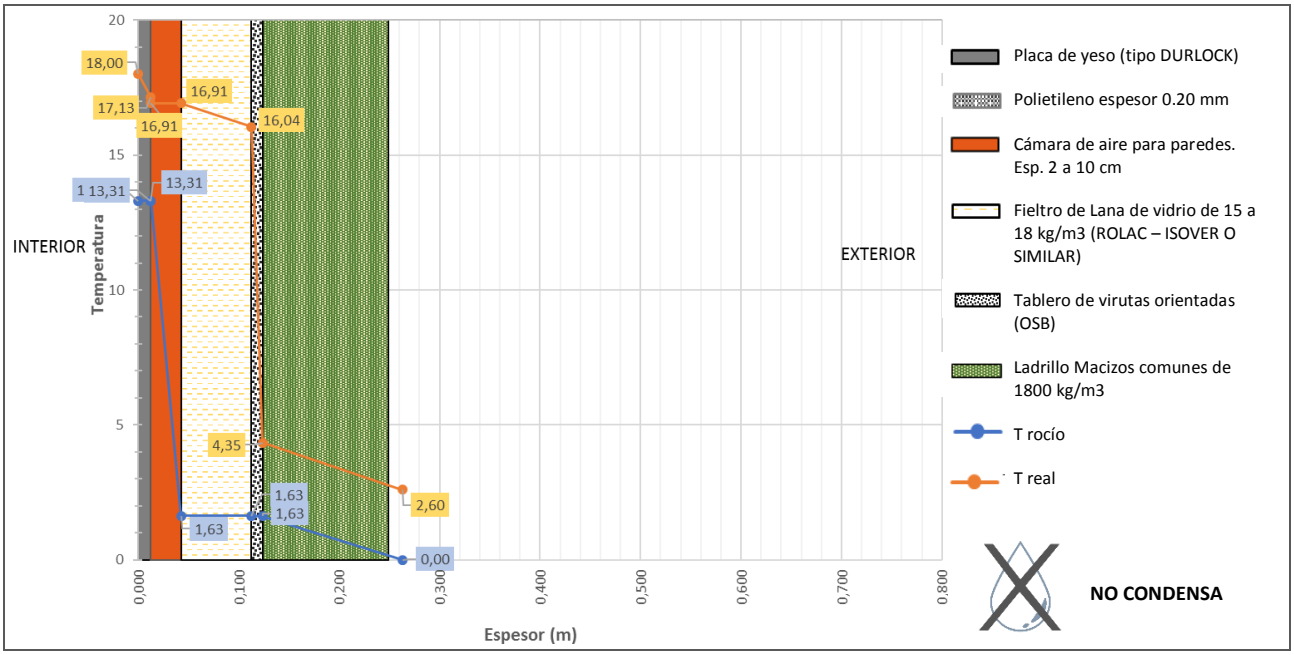
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,43 | 0,43 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



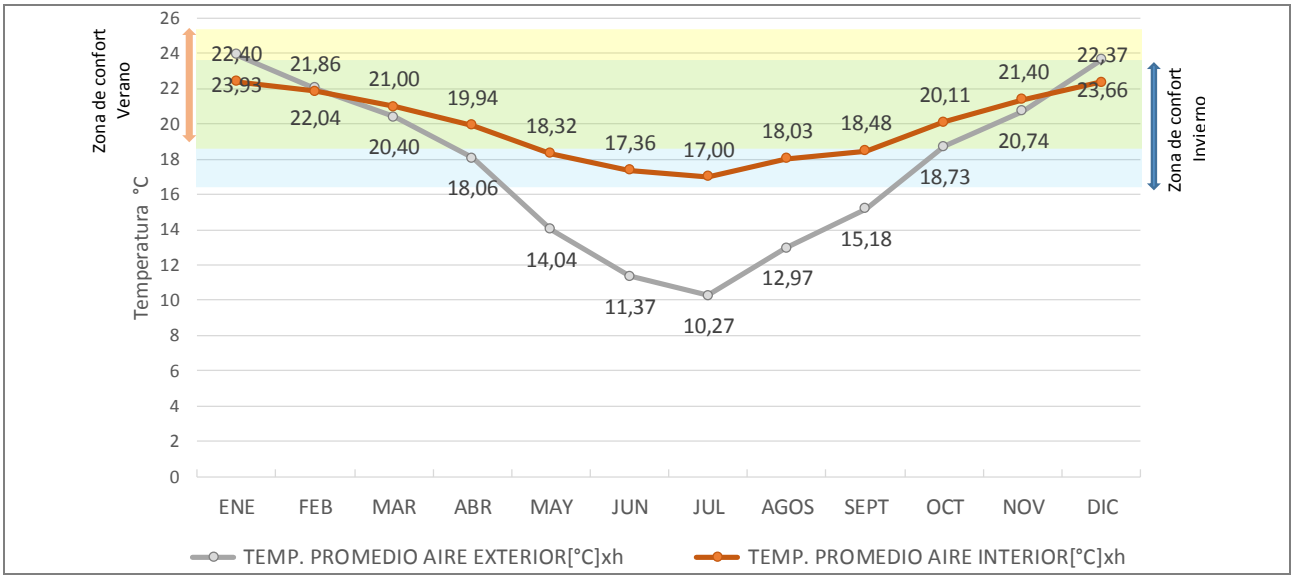

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 13,4 | 2,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **10,8** | **4,9** |
| | **Amortiguamiento:** | 0,018 | 0,163 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,5** | **4,2** |
| | **Amortiguamiento:** | 0,065 | 0,335 |

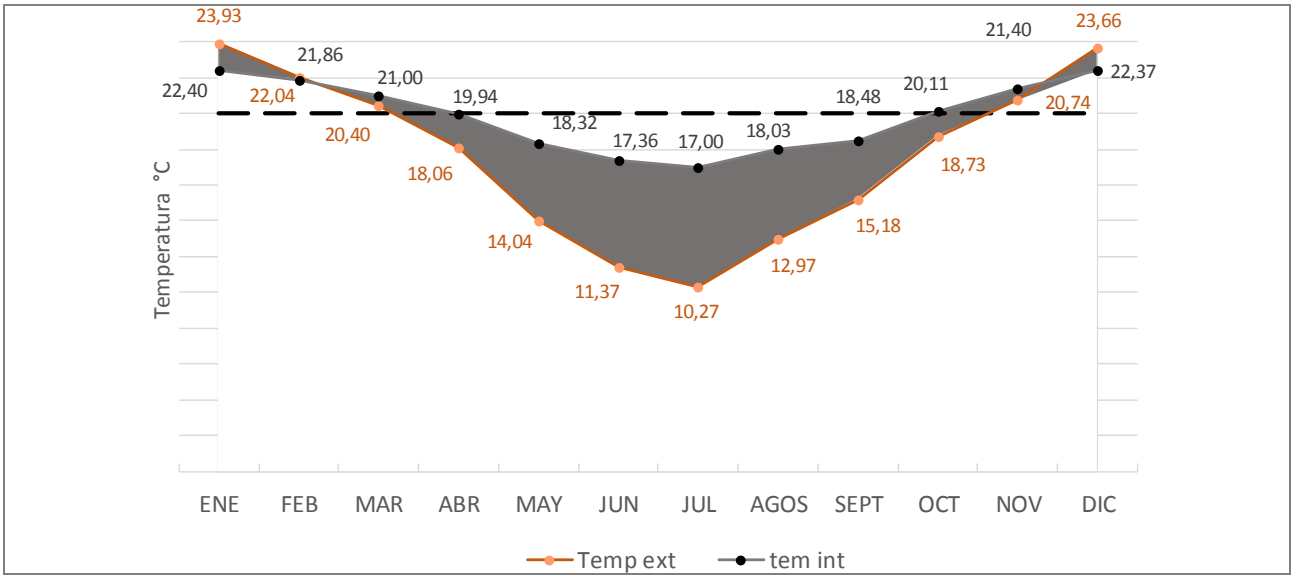
| STL-056 | MU | STEEL FRAME |
|---|---|---|

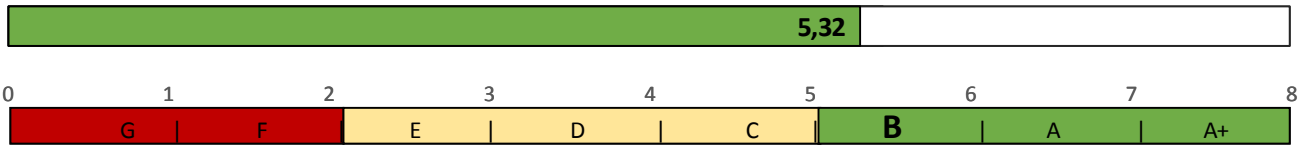
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **25,01** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **14,46** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



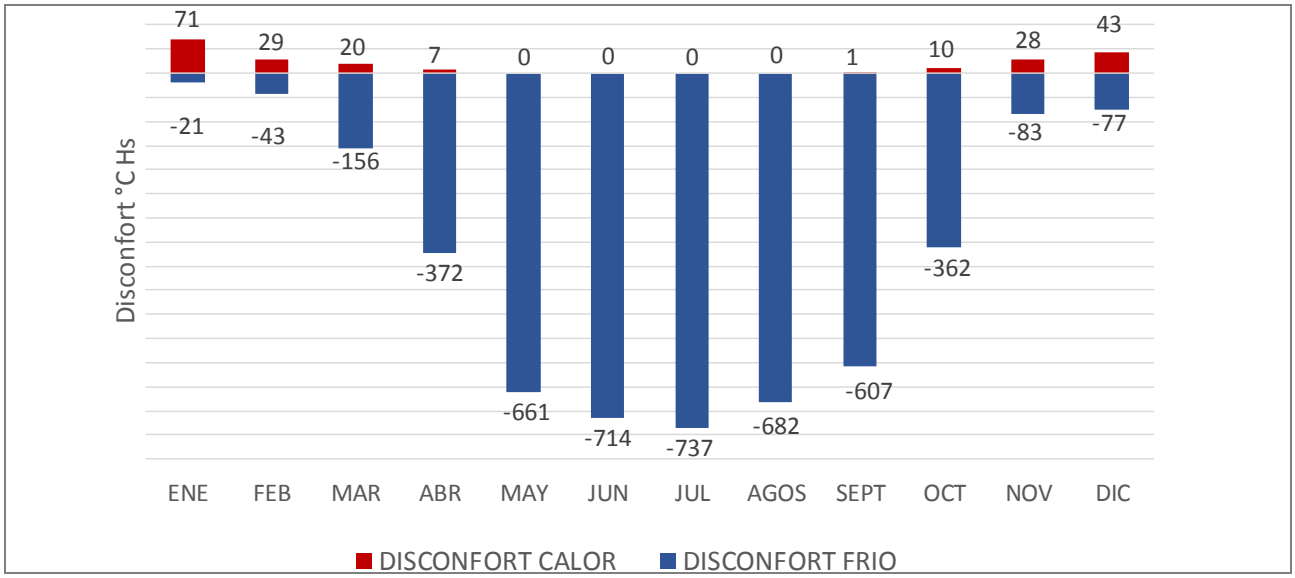




5,32 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-056 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

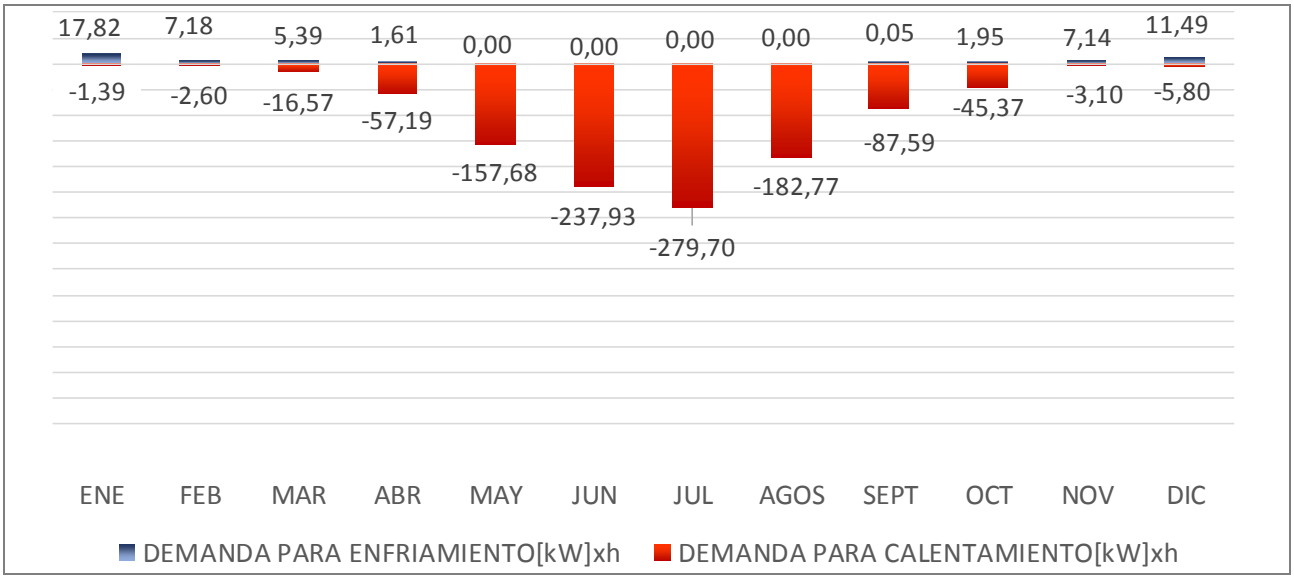
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **209** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.513** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.513** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

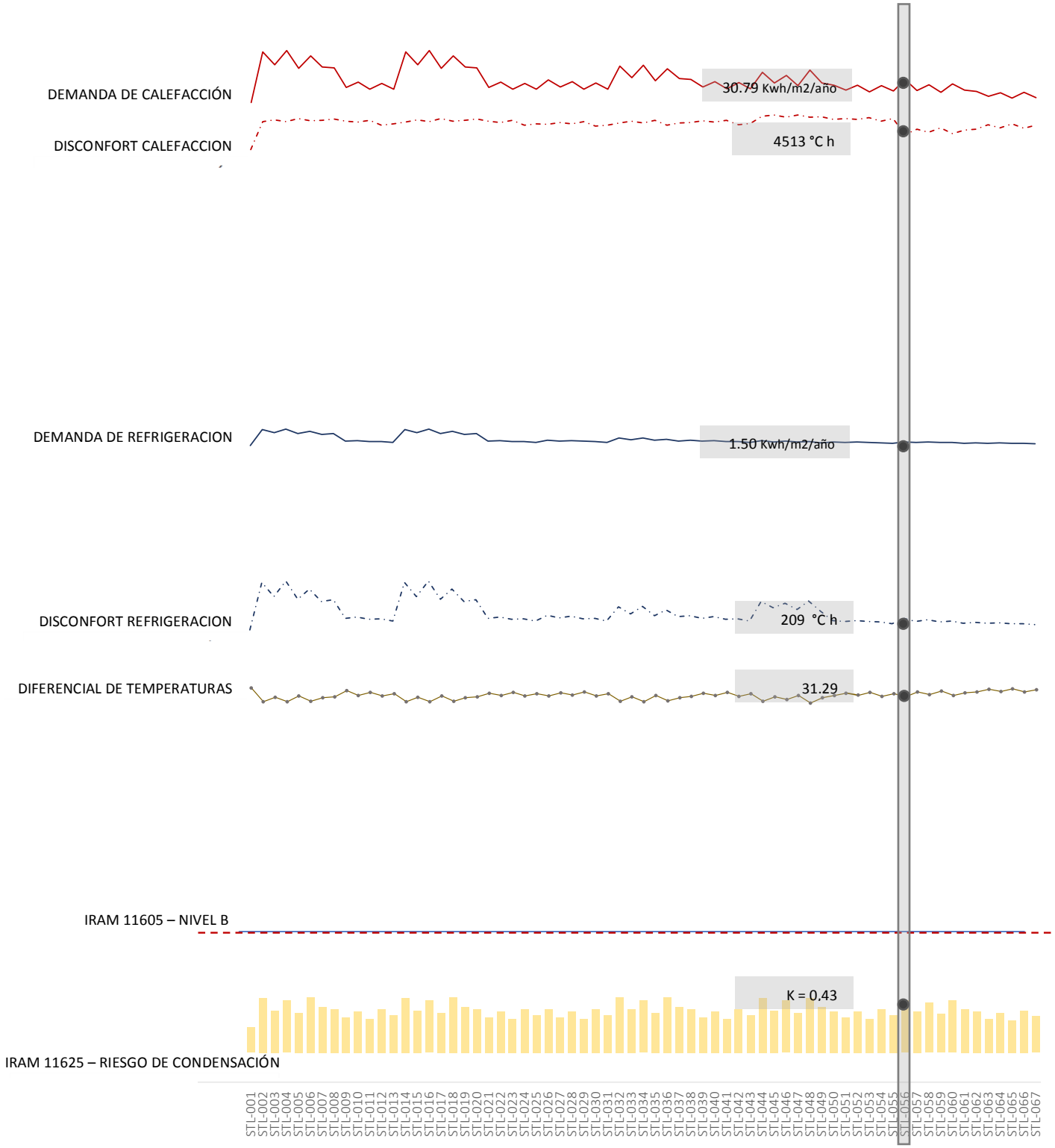



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **52,64** | kWh | 1,50 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.077,67** | kWh | 30,79 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.130,31** | kWh | **32,29** | kWh/m2/año |

| STL-056 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 087 | N° 077 | N° 093 | N° 105 | N° 068 | N° 109 |



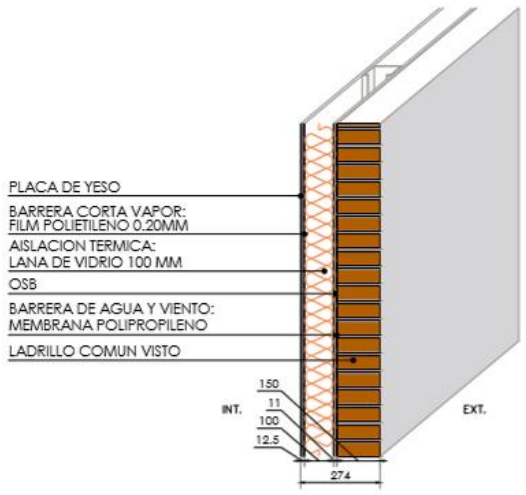

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,43 | | 31,29 | 30,79 | 1,5 | 4513 | 209 |
| INC. FAMILIA | 121,77% | 0% | 99,91% | 96,63% | 59,91% | 98,23% | 74,25% |
| INC. MUNDIAL | 36,15% | 0% | 101,55% | 74,87% | 24,99% | 101,15% | 40,89% |

| STL-057 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA

## INDICE DE TRANSMITANCIA TERMICA "K"

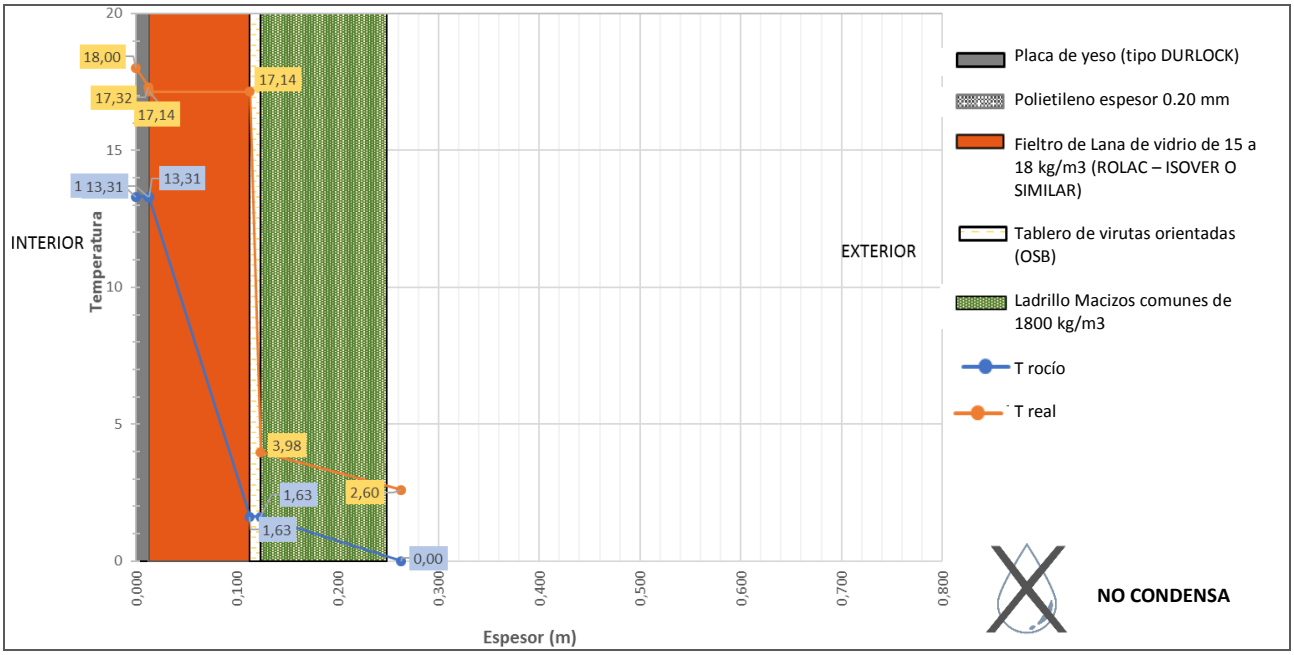
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,34 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



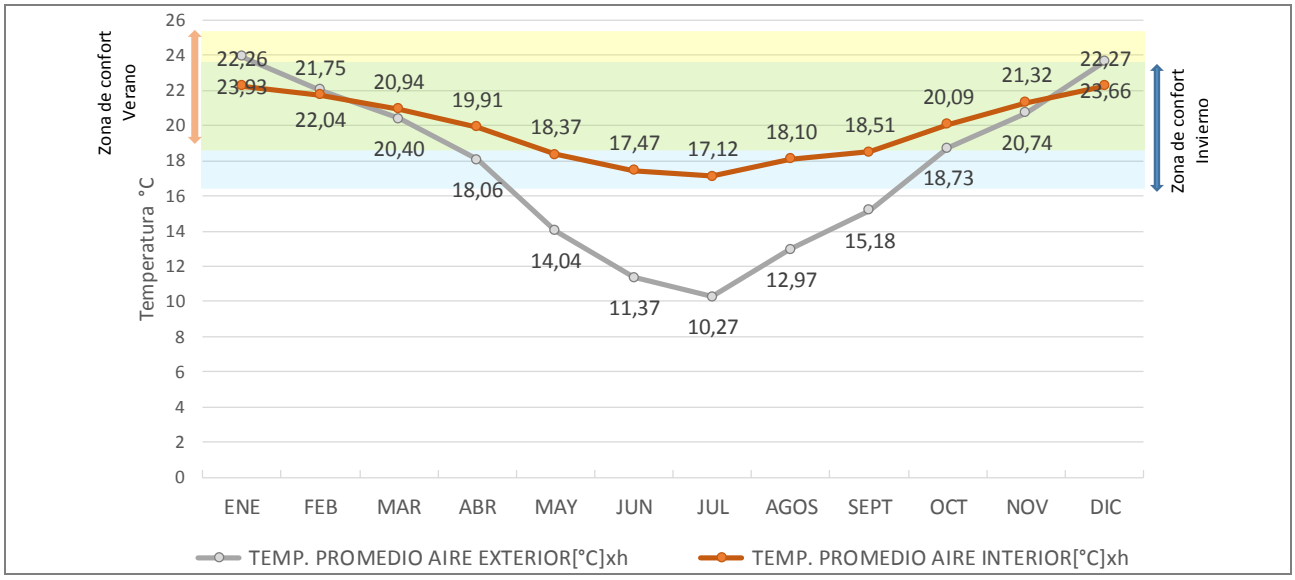

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 10,4 | Invierno 2,1 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,3** | **5,6** |
| | **Amortiguamiento:** | 0,011 | 0,128 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,9** | **4,5** |
| | **Amortiguamiento:** | 0,045 | 0,304 |

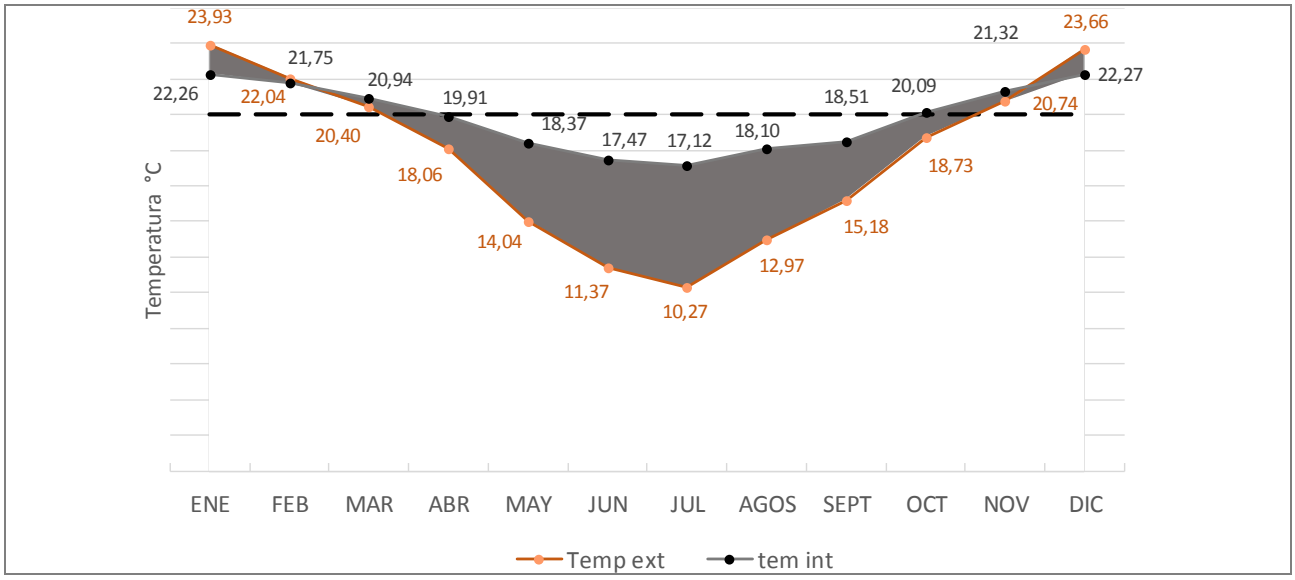
| STL-057 | MU | STEEL FRAME |
|---|---|---|

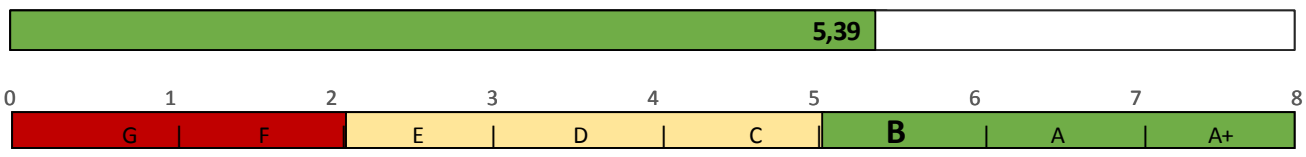
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,77** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **14,77** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



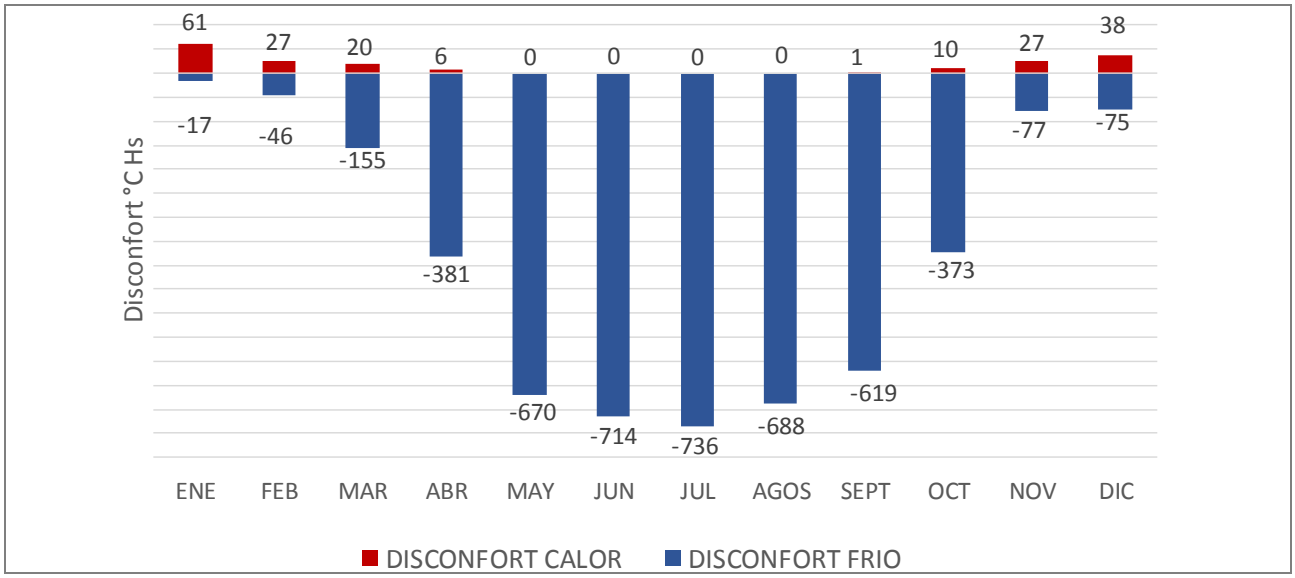




5.39 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.67

| STL-057 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

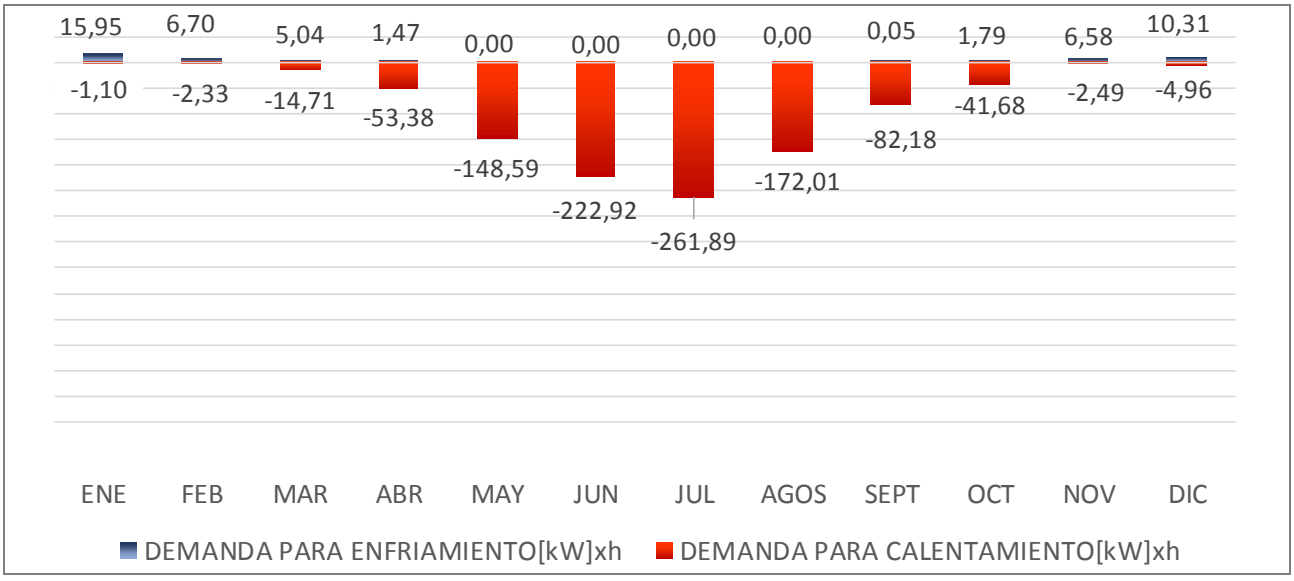
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **188** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.550** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.738** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

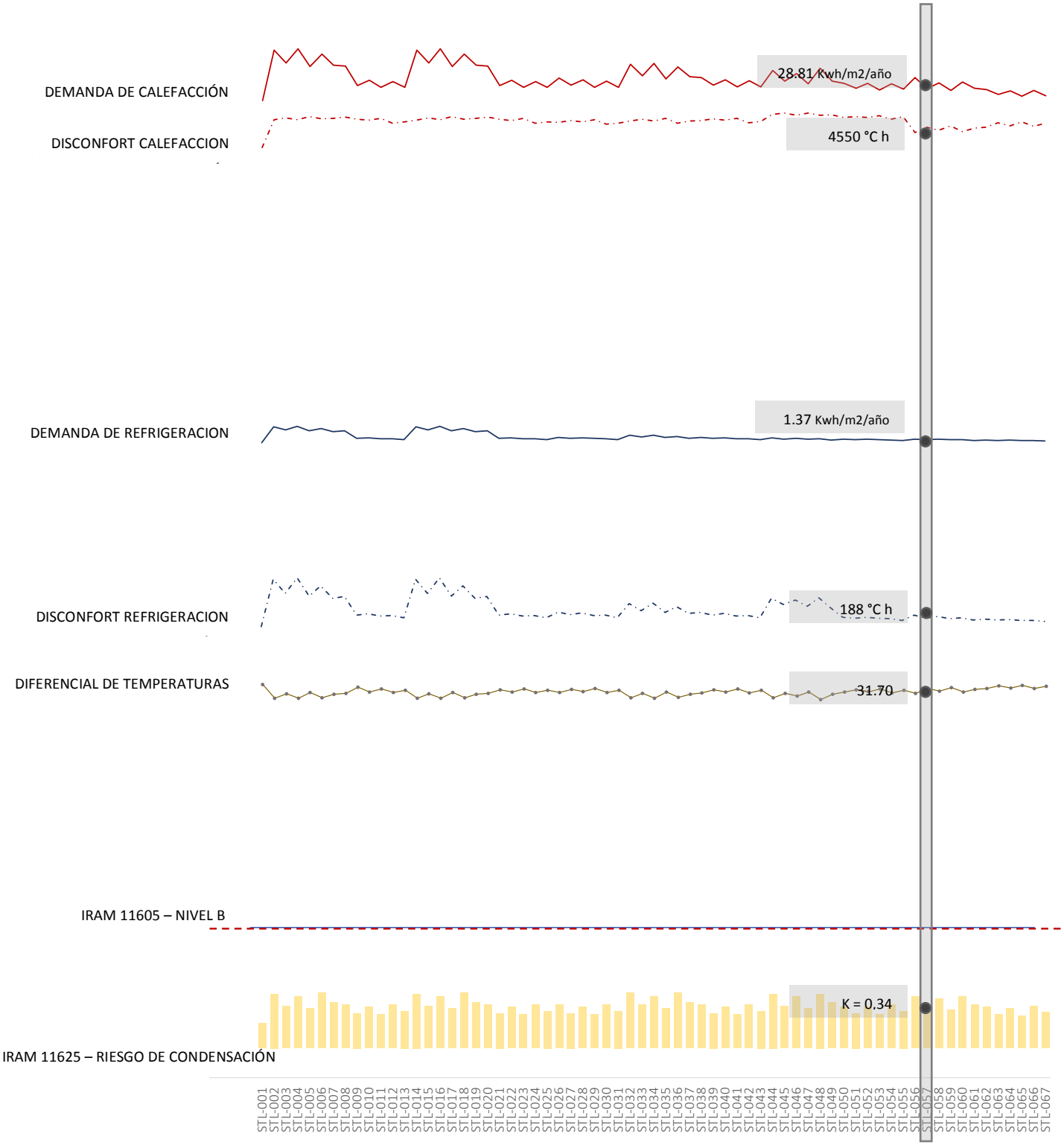



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **47,89** | kWh | 1,37 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.008,21** | kWh | 28,81 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.056,10** | kWh | **30,17** | kWh/m2/año |

| STL-057 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 043 | N° 019 | N° 021 | N° 085 | N° 104 | N° 070 |



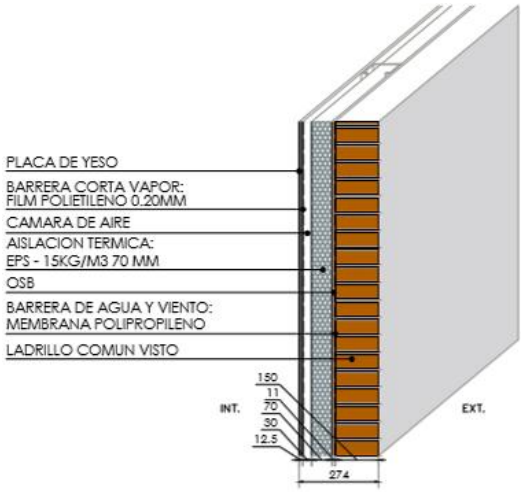

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,34 | 0% | 31,7 | 28,81 | 1,37 | 4550 | 188 |
| INC. FAMILIA | 96,28% | 0% | 101,22% | 90,42% | 54,72% | 99,04% | 66,79% |
| INC. MUNDIAL | 28,59% | 0% | 102,88% | 70,05% | 22,83% | 101,98% | 36,78% |

| STL-058 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 70MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

## INDICE DE TRANSMITANCIA TERMICA "K"

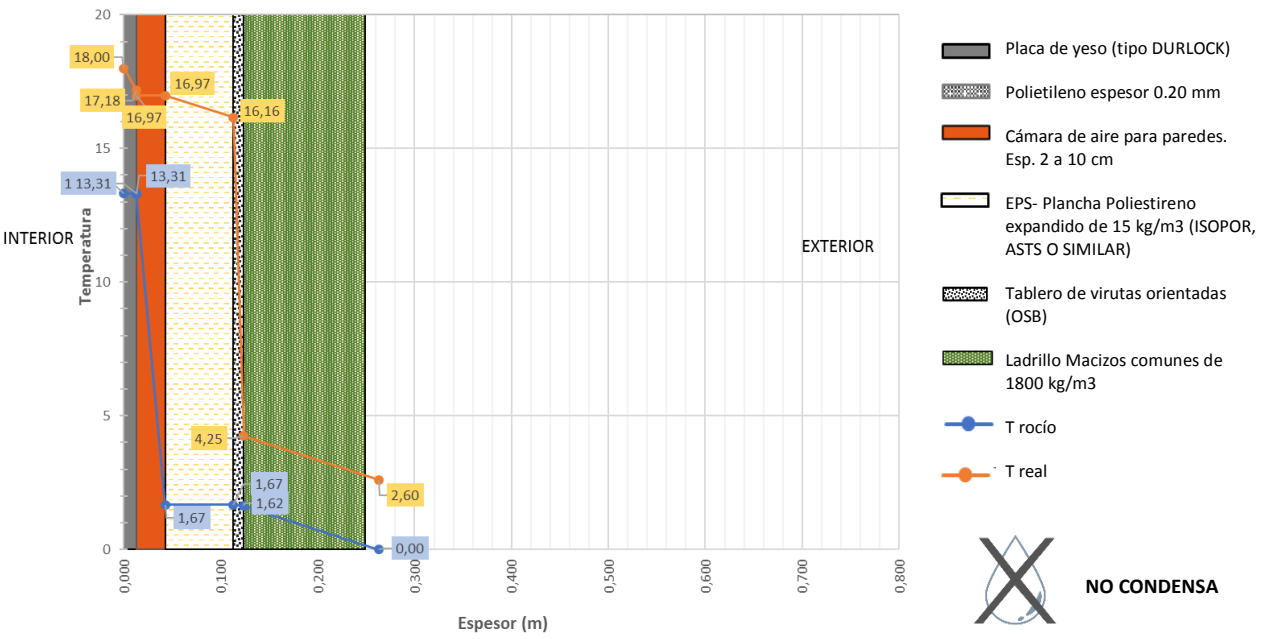
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,41 | 0,41 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



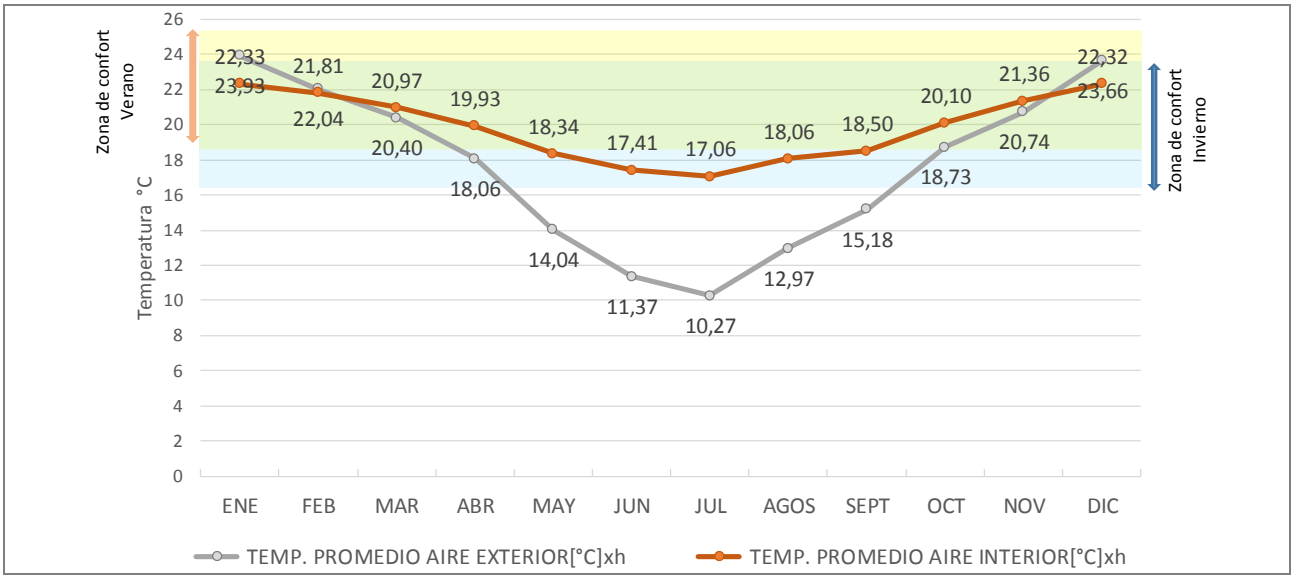

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 12,6 | 2,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,2** | **5,1** |
| | **Amortiguamiento:** | 0,016 | 0,154 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,8** | **4,3** |
| | **Amortiguamiento:** | 0,059 | 0,328 |

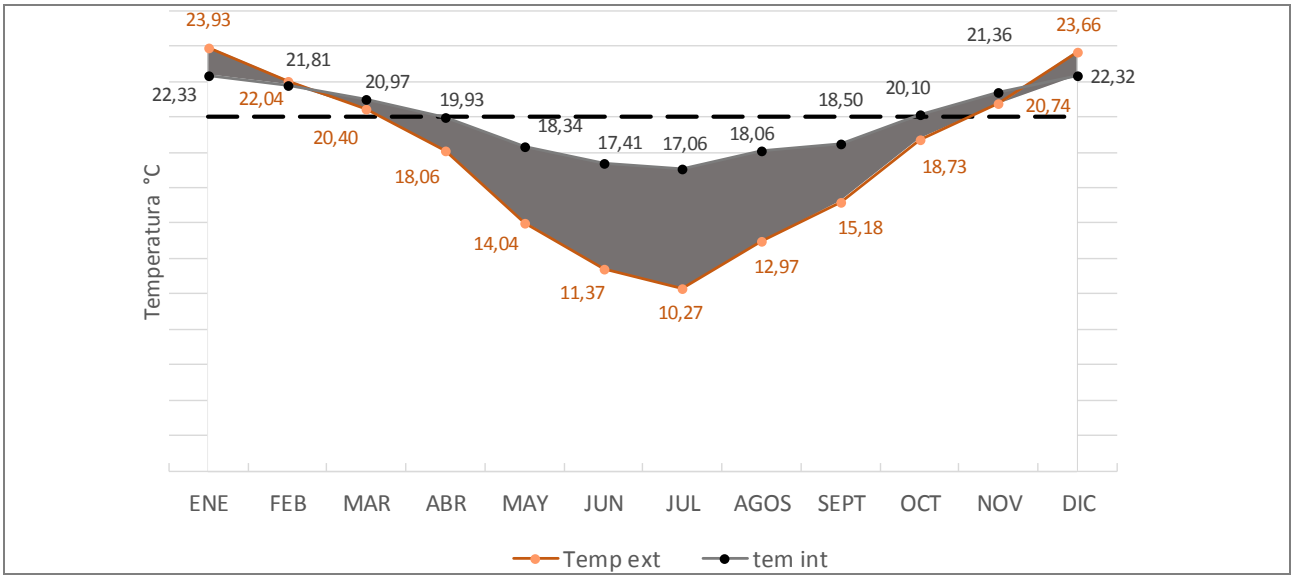
| STL-058 | MU | STEEL FRAME |
|---|---|---|

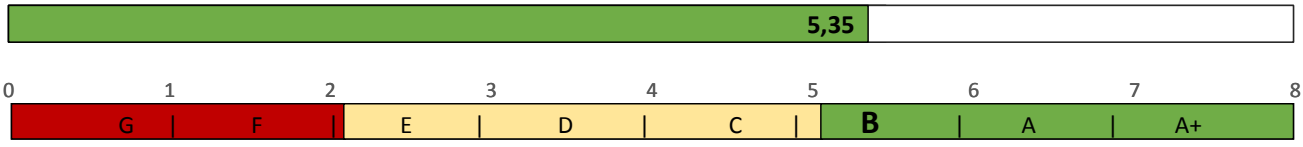
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,90** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,61** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



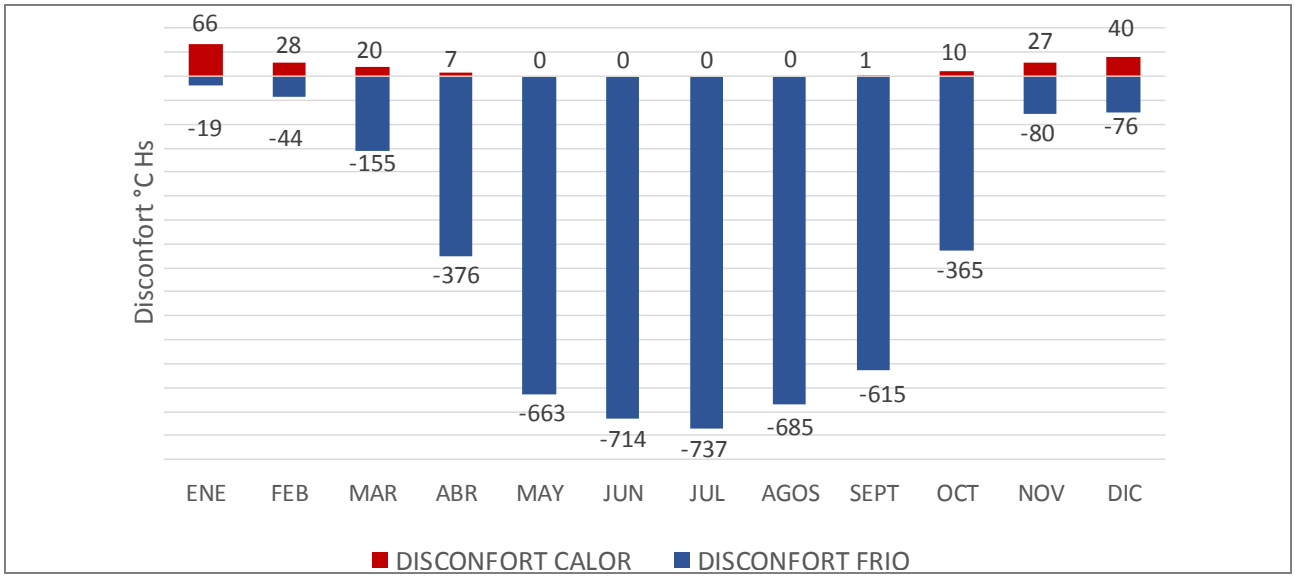




5,35 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-058 | MU | STEEL FRAME |
|---|---|---|

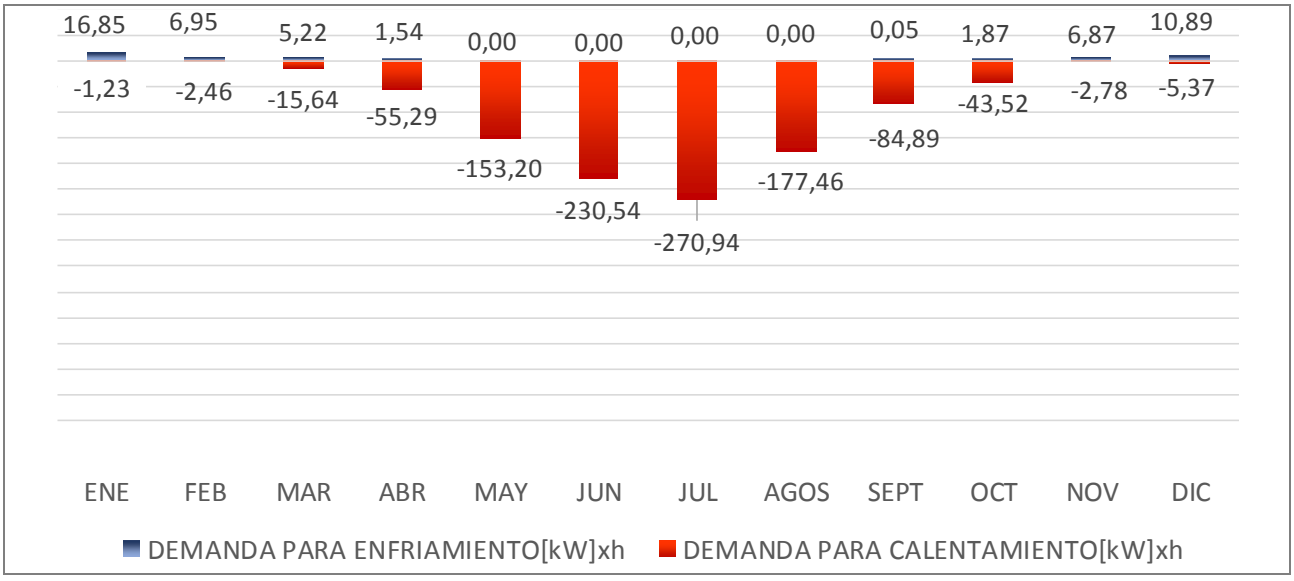
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **199** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.529** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.727** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

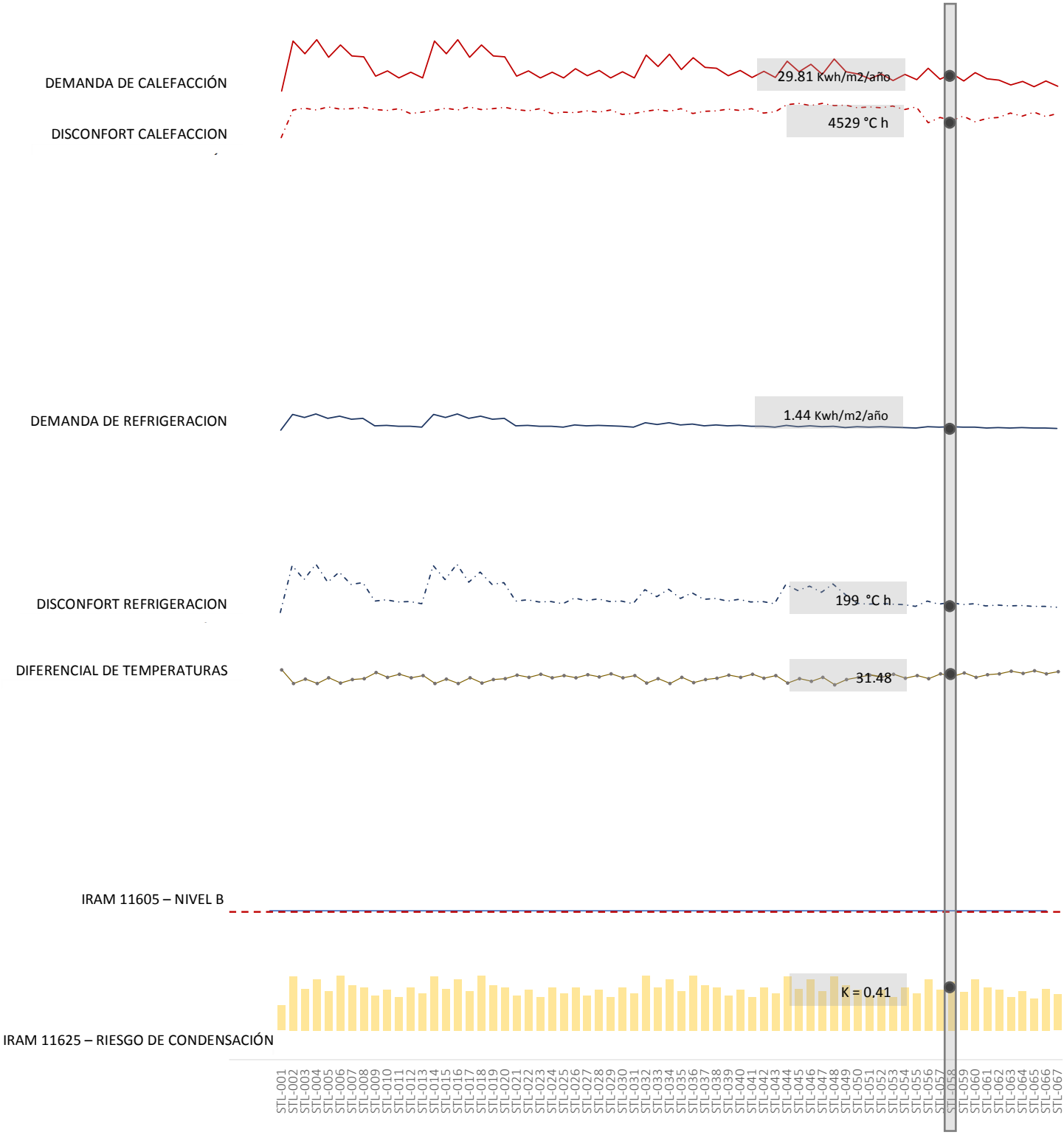



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **50,24** | kWh | 1,44 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.043,33** | kWh | 29,81 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.093,57** | kWh | **31,24** | kWh/m2/año |

| STL-058 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 077 | N° 041 | N° 057 | N° 095 | N° 084 | N° 090 |



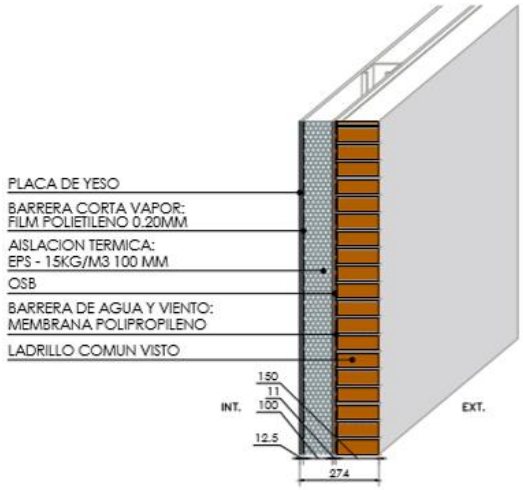

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,41 | 0% | 31,48 | 29,81 | 1,44 | 4529 | 199 |
| INC. FAMILIA | 116,10% | 0% | 100,51% | 93,56% | 57,51% | 98,58% | 70,70% |
| INC. MUNDIAL | 34,47% | 0% | 102,16% | 72,49% | 23,99% | 101,51% | 38,93% |

| STL-059 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

## INDICE DE TRANSMITANCIA TERMICA "K"

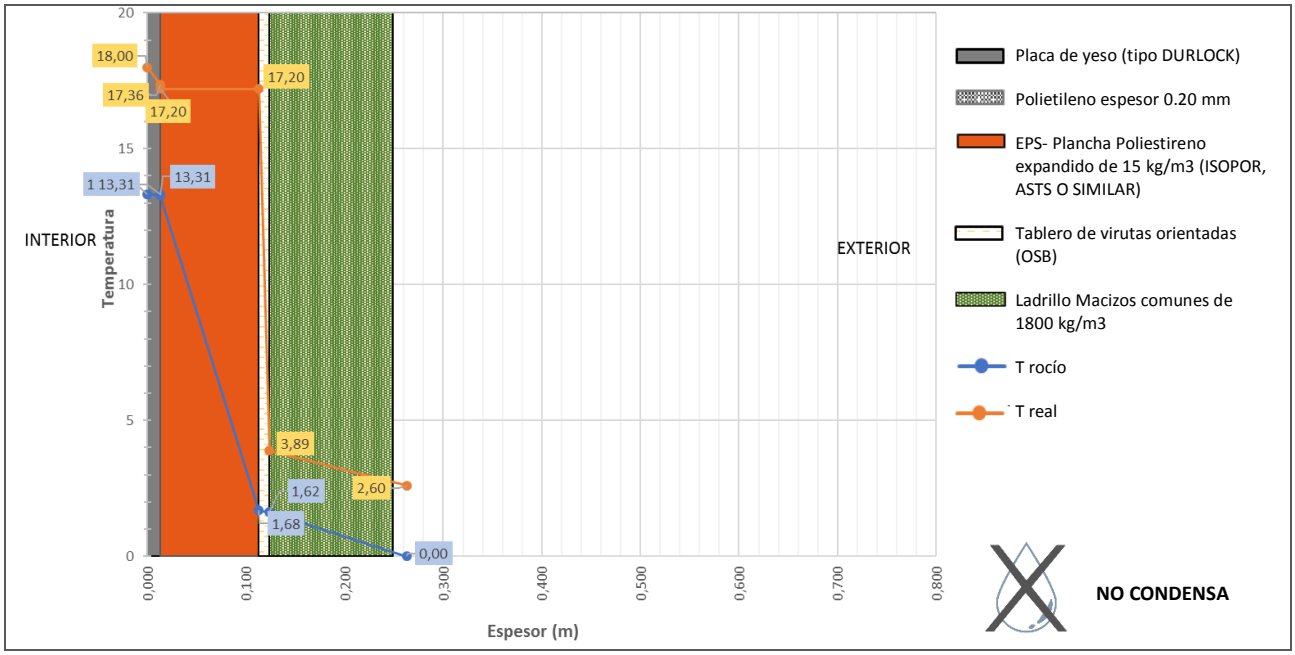
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,32 | 0,32 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



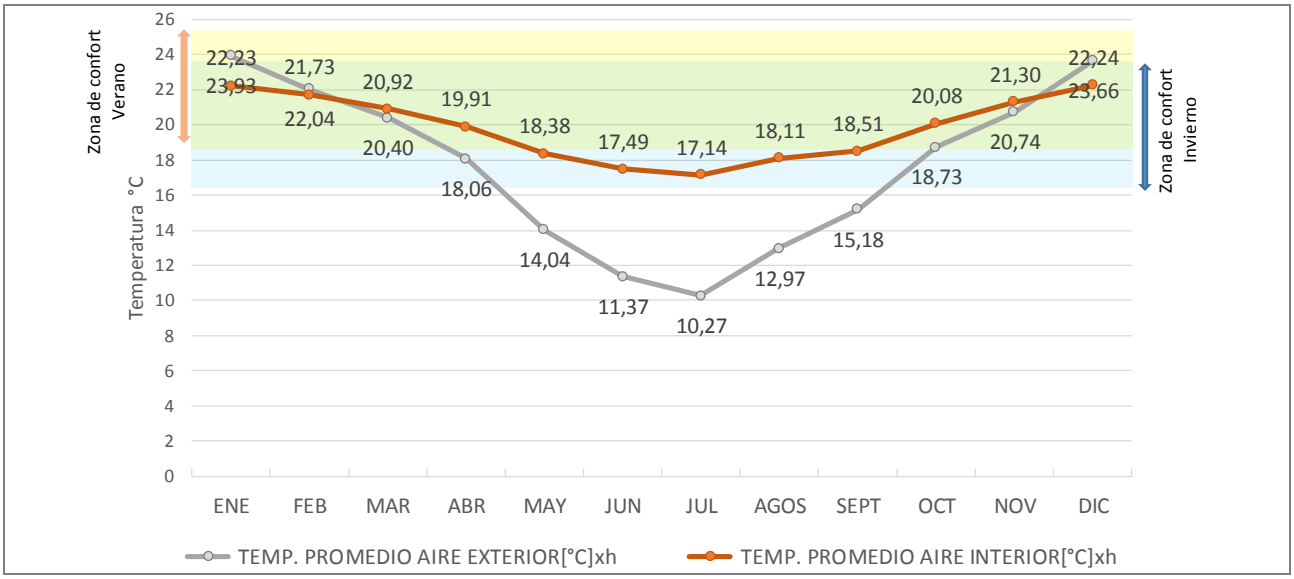

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 9,7 | 2,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,7** | **5,8** |
| | **Amortiguamiento:** | 0,009 | 0,118 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,3** | **4,7** |
| | **Amortiguamiento:** | 0,040 | 0,295 |

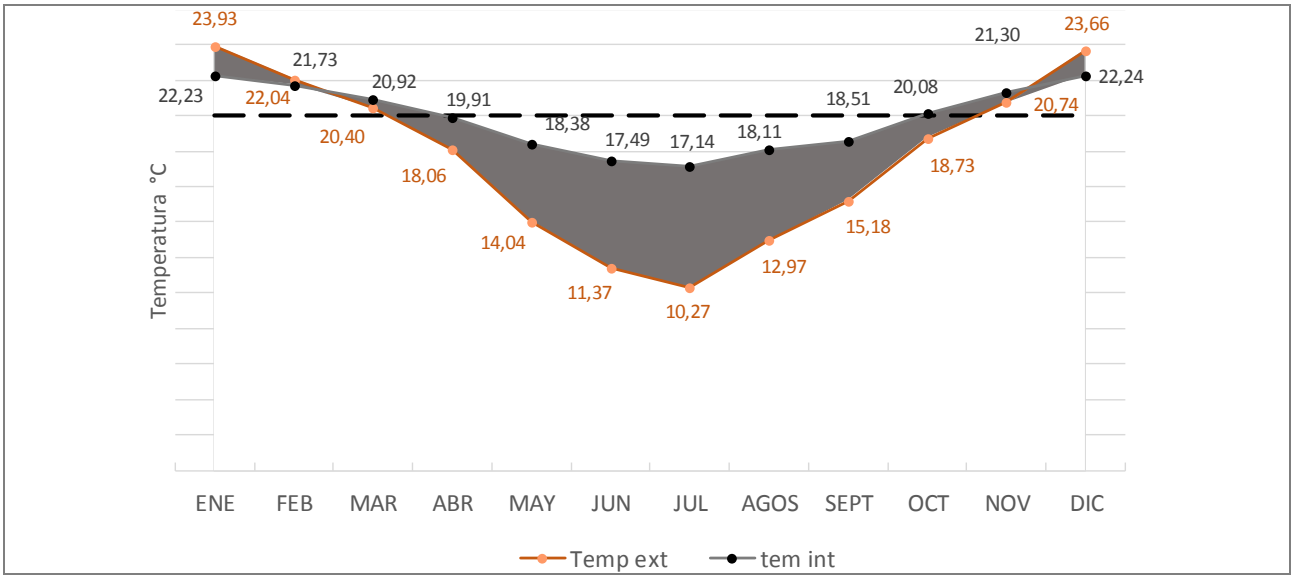
| STL-059 | MU | STEEL FRAME |
|---|---|---|

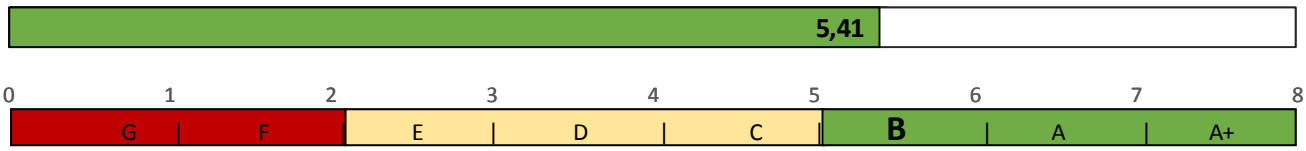
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,72** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **14,82** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



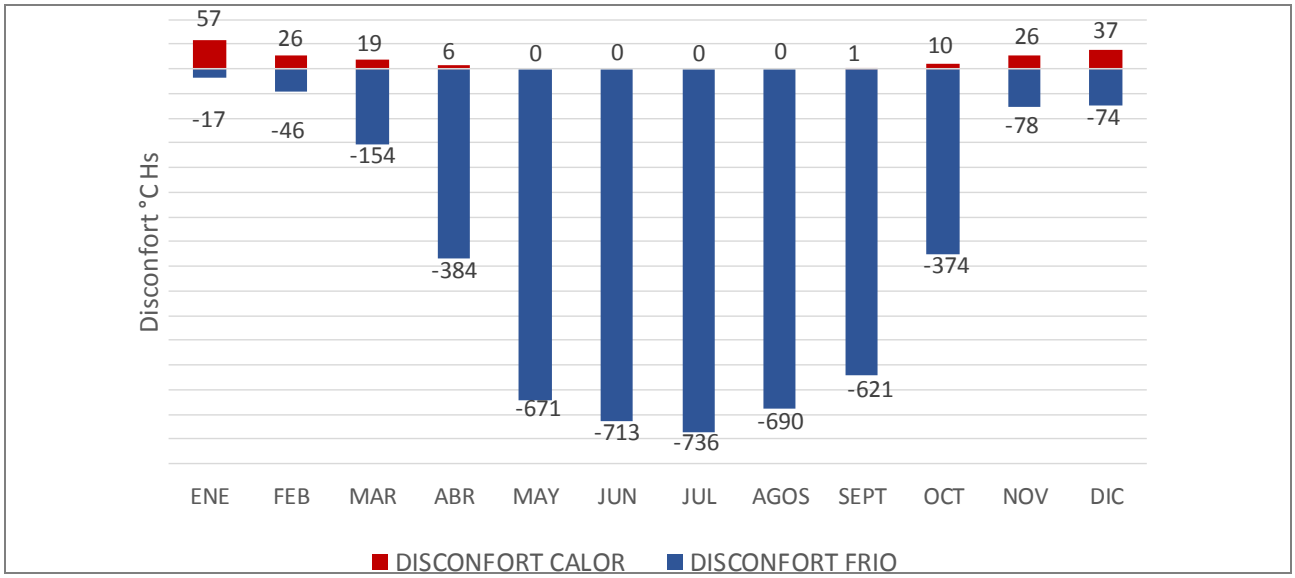




5,41 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,68

| STL-059 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

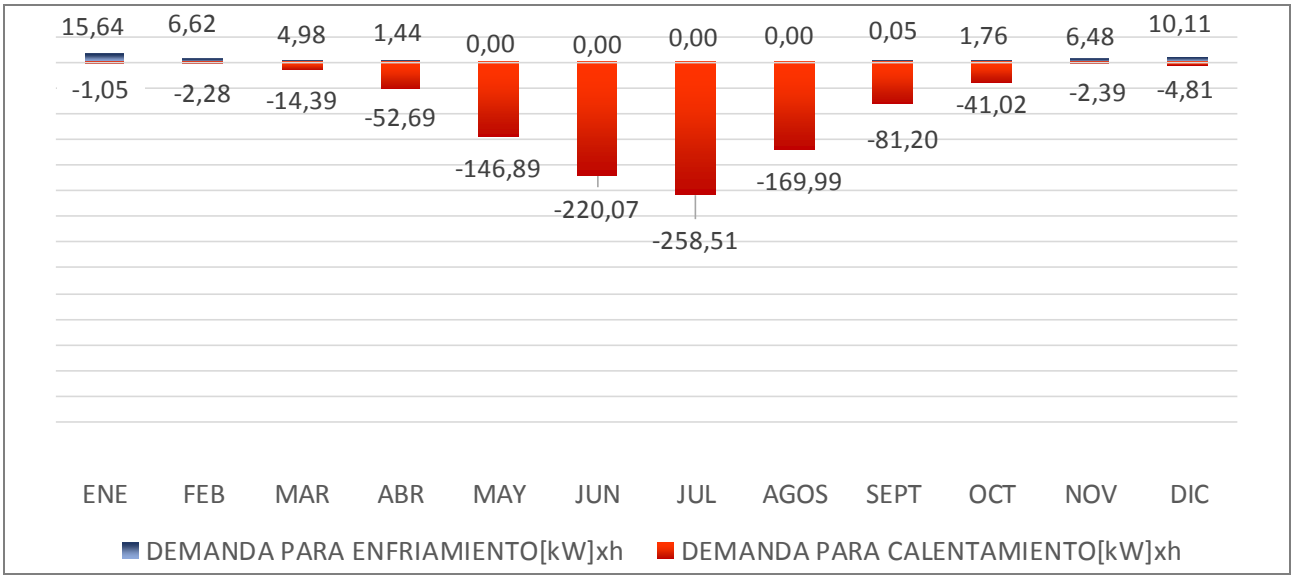
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **184** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.559** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.743** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

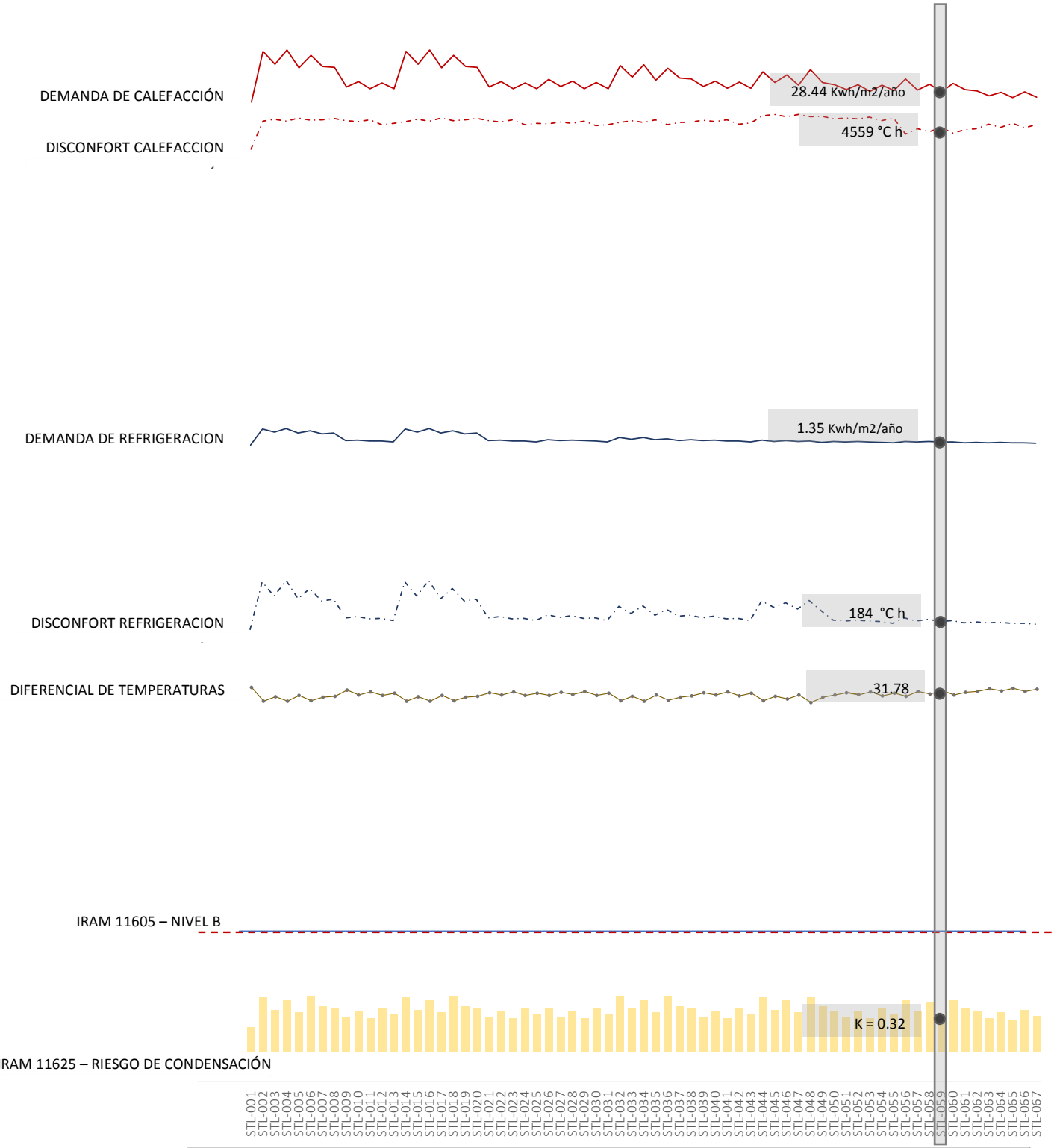



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **47,08** | kWh | 1,35 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **995,28** | kWh | 28,44 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.042,36** | kWh | **29,78** | kWh/m2/año |

| STL-059 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 027 | N° 015 | N° 012 | N° 082 | N° 115 | N° 065 |



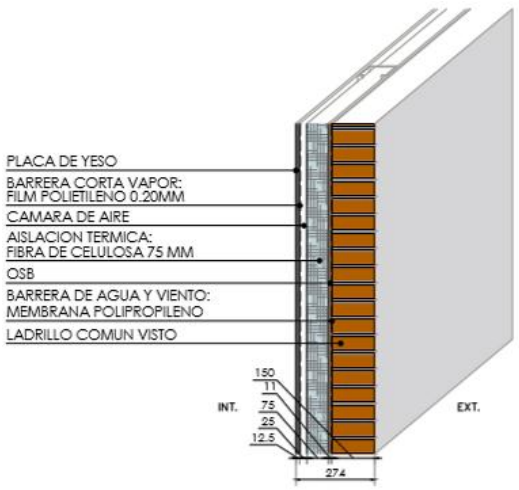

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,32 | 0% | 31,78 | 28,44 | 1,35 | 4559 | 184 |
| INC. FAMILIA | 90,62% | 0% | 101,47% | 89,26% | 53,92% | 99,23% | 65,37% |
| INC. MUNDIAL | 26,90% | 0% | 103,14% | 69,15% | 22,49% | 102,18% | 36,00% |

| STL-060 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

## INDICE DE TRANSMITANCIA TERMICA "K"

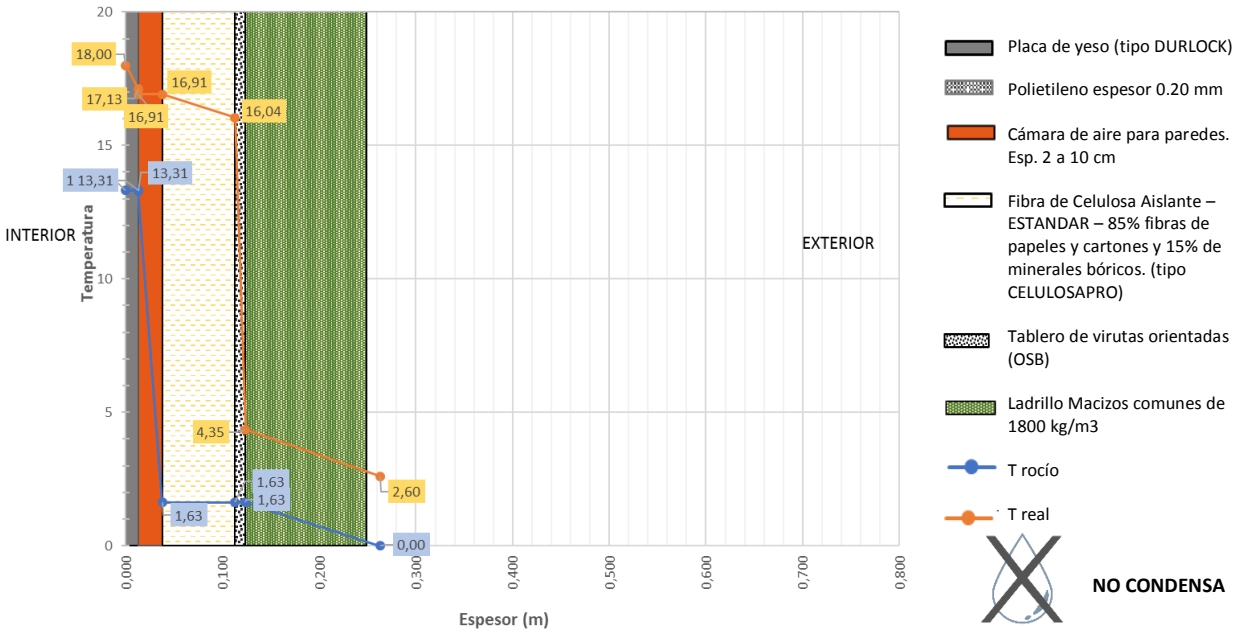
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,43 | 0,43 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



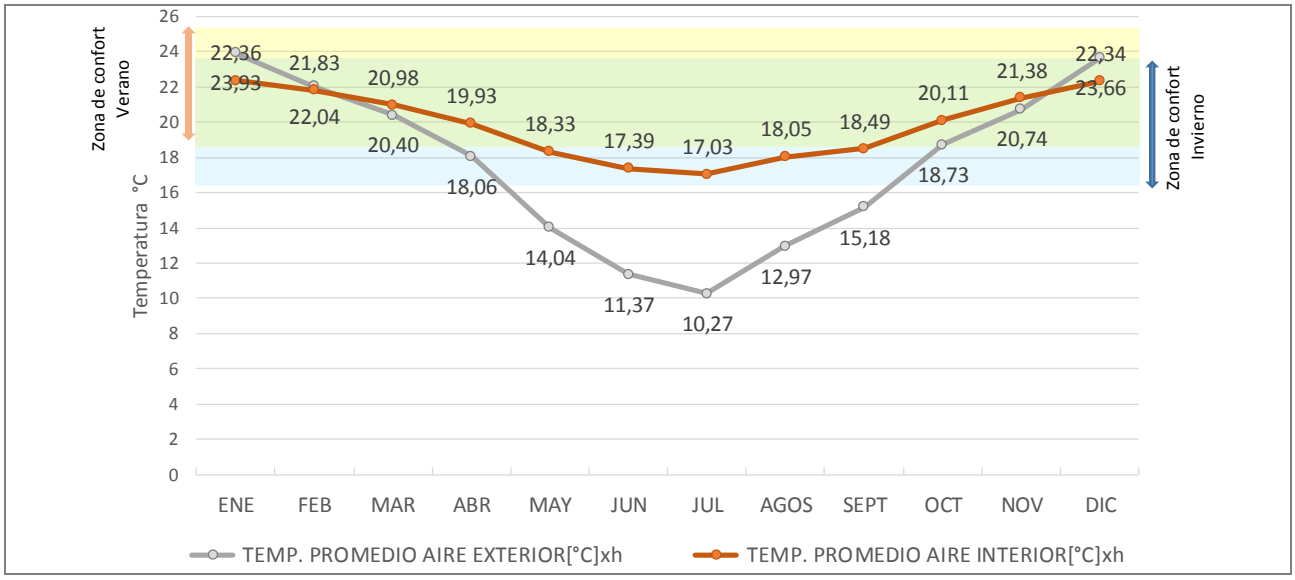

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 14,9 | 4,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **11,4** | **6,1** |
| | **Amortiguamiento:** | 0,015 | 0,106 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **10,8** | **4,9** |
| | **Amortiguamiento:** | 0,060 | 0,281 |

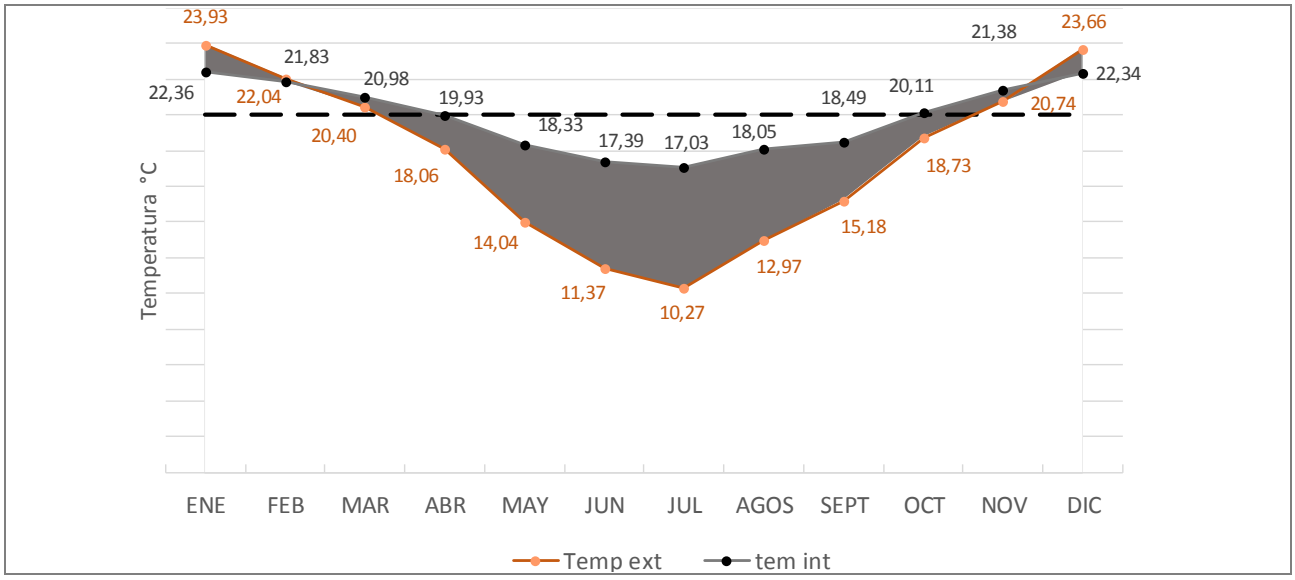
| STL-060 | MU | STEEL FRAME |
|---|---|---|

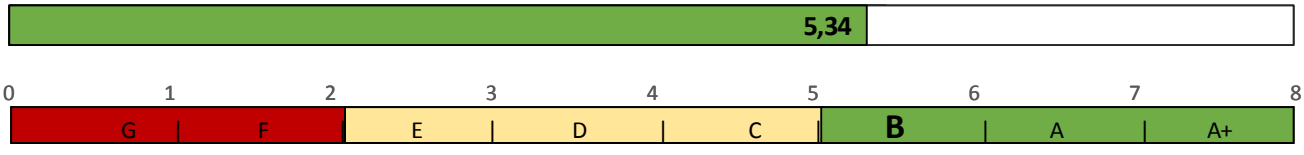
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,82** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,62** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



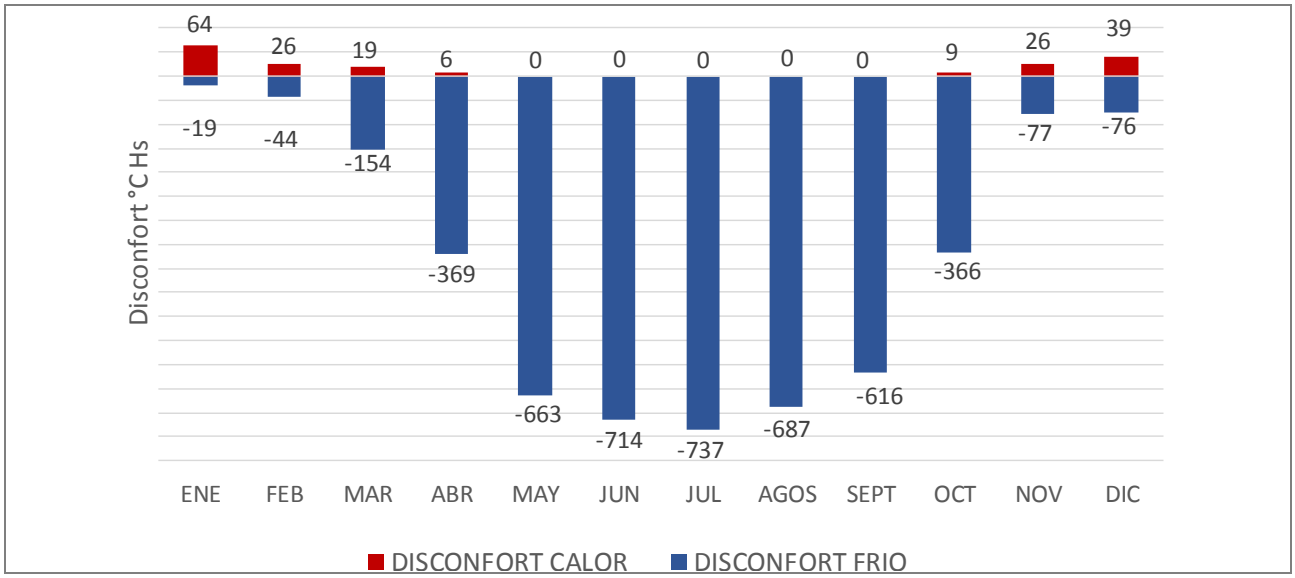




5.34 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.67

| STL-060 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

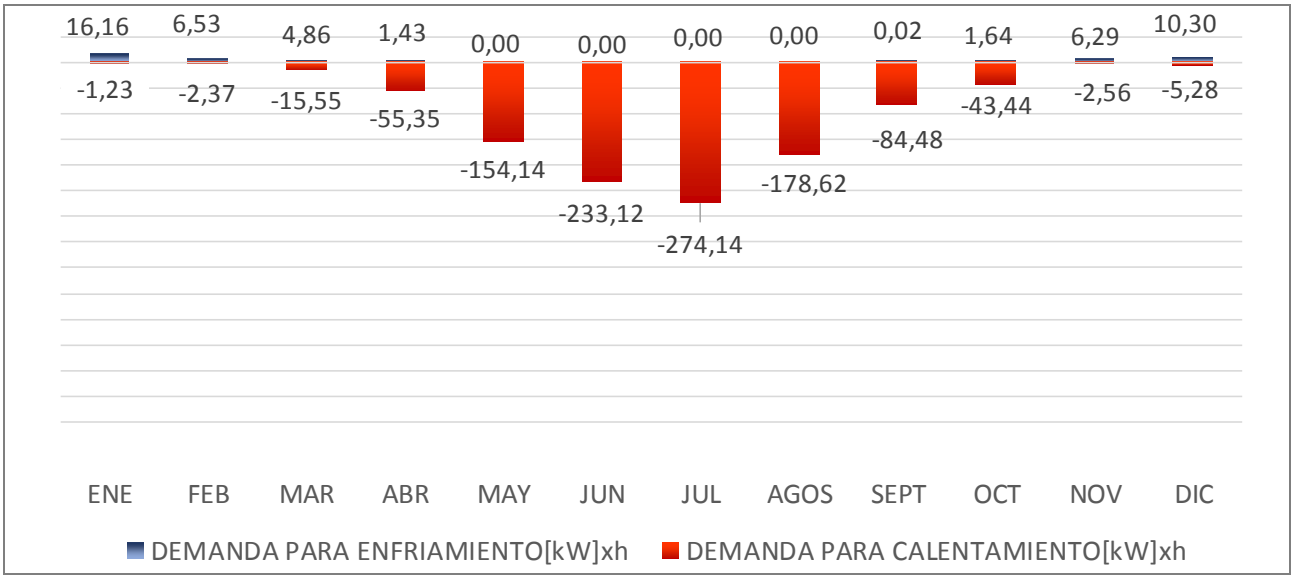
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **189** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.521** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.711** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

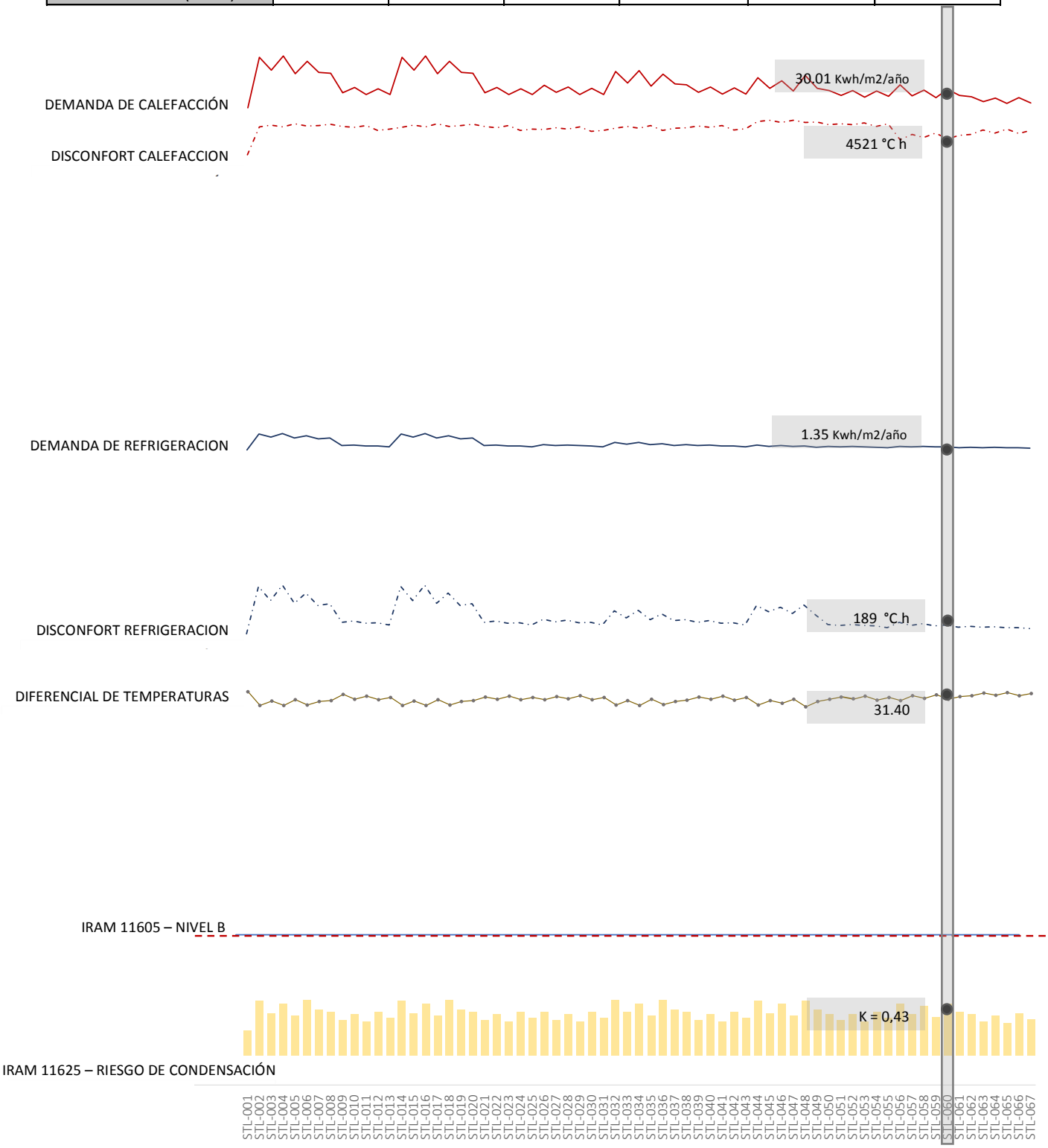



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **47,24** | kWh | 1,35 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.050,28** | kWh | 30,01 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.097,52** | kWh | **31,36** | kWh/m2/año |

| STL-060 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 088 | N° 052 | N° 063 | N° 083 | N° 079 | N° 074 |



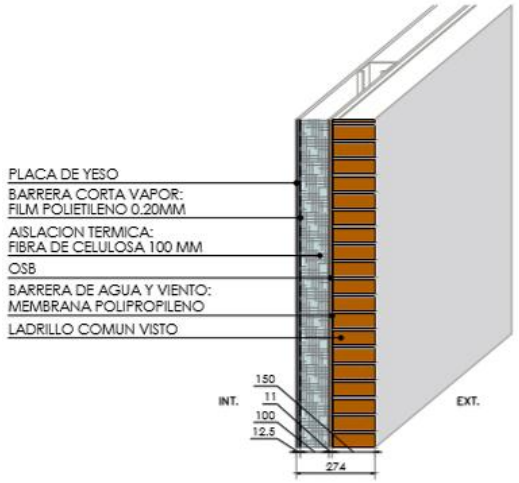

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,43 | | 31,4 | 30,01 | 1,35 | 4521 | 189 |
| INC. FAMILIA | 121,77% | 0% | 100,26% | 94,19% | 53,92% | 98,41% | 67,15% |
| INC. MUNDIAL | 36,15% | 0% | 101,90% | 72,97% | 22,49% | 101,33% | 36,98% |

| STL-061 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

## INDICE DE TRANSMITANCIA TERMICA "K"

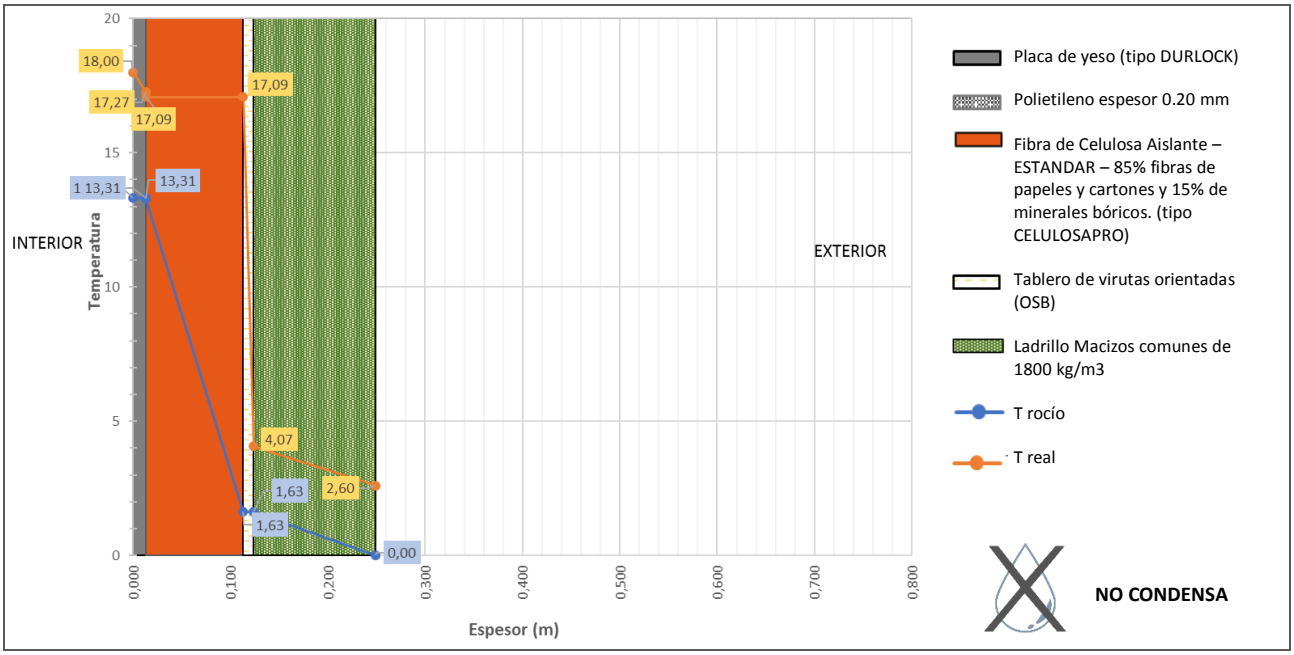
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,36 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



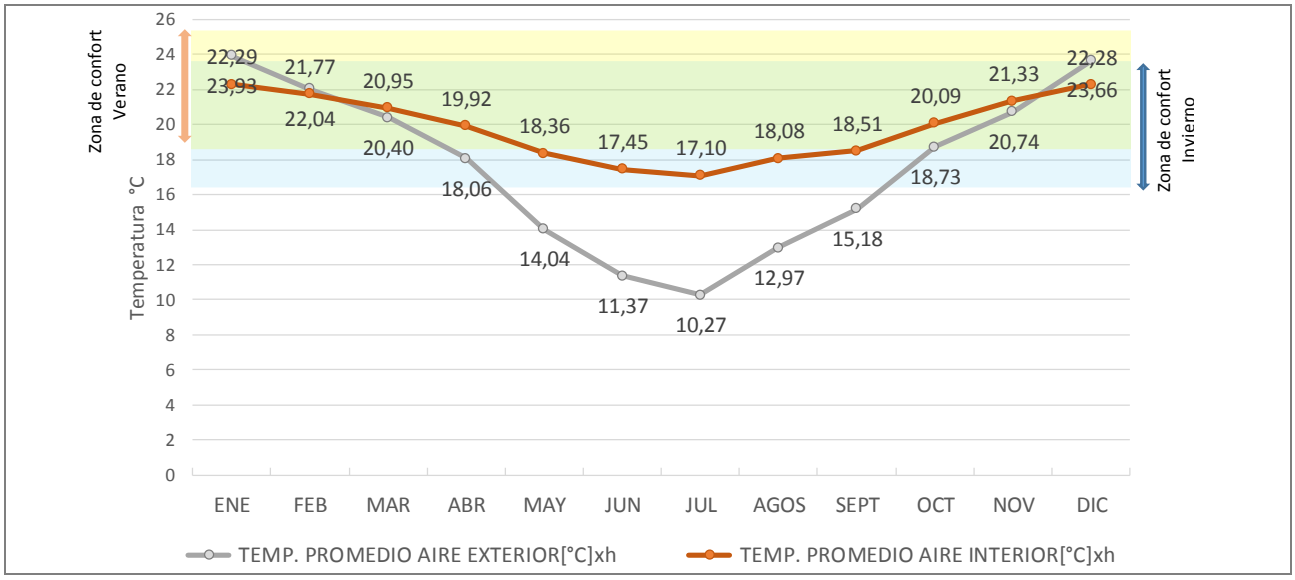

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 12,7 | 3,9 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,7** | **7,0** |
| | **Amortiguamiento:** | 0,009 | 0,074 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,9** | **5,5** |
| | **Amortiguamiento:** | 0,044 | 0,238 |

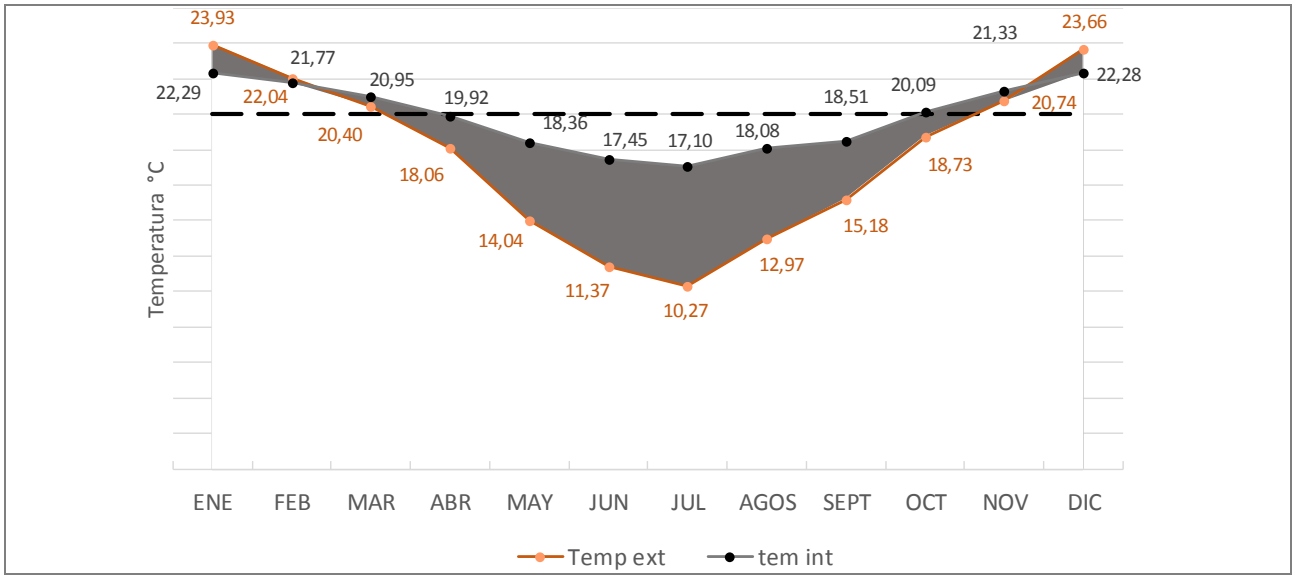
| STL-061 | MU | STEEL FRAME |
|---|---|---|

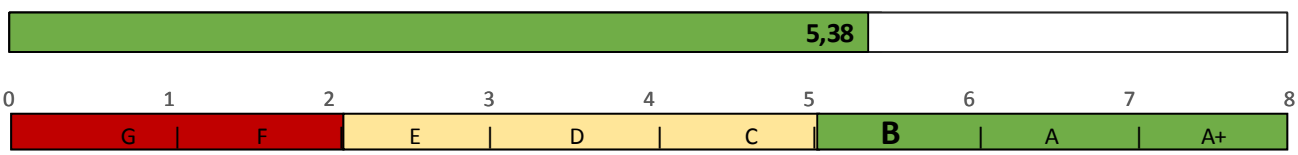
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,66** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,79** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



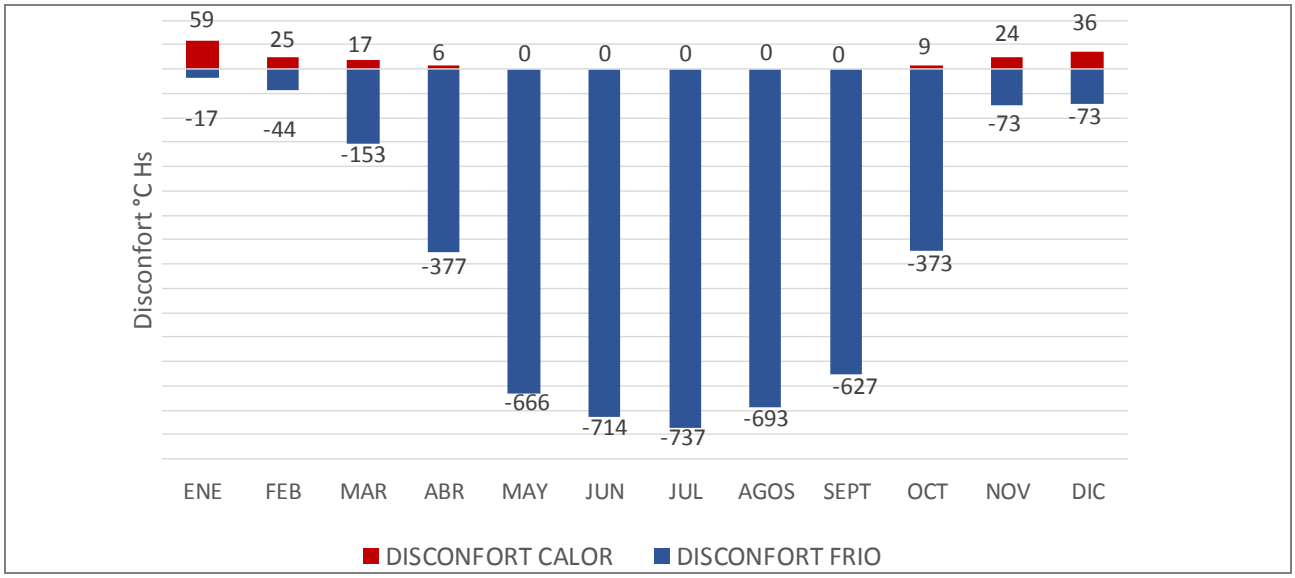




5,38 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,67

| STL-061 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

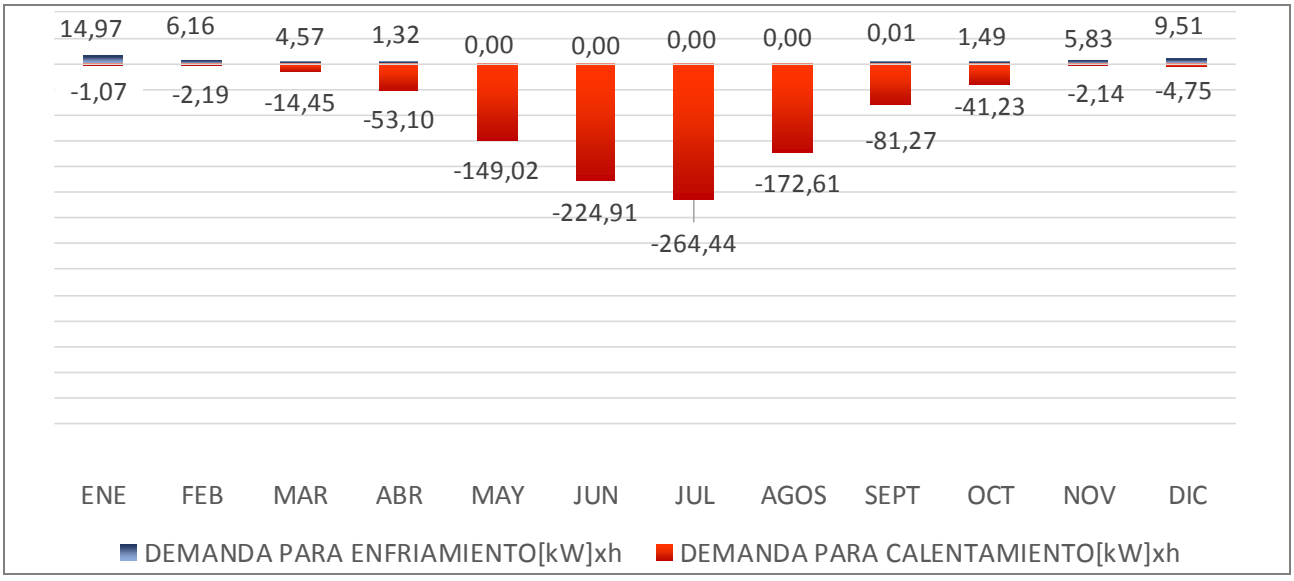
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **176** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.545** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.722** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

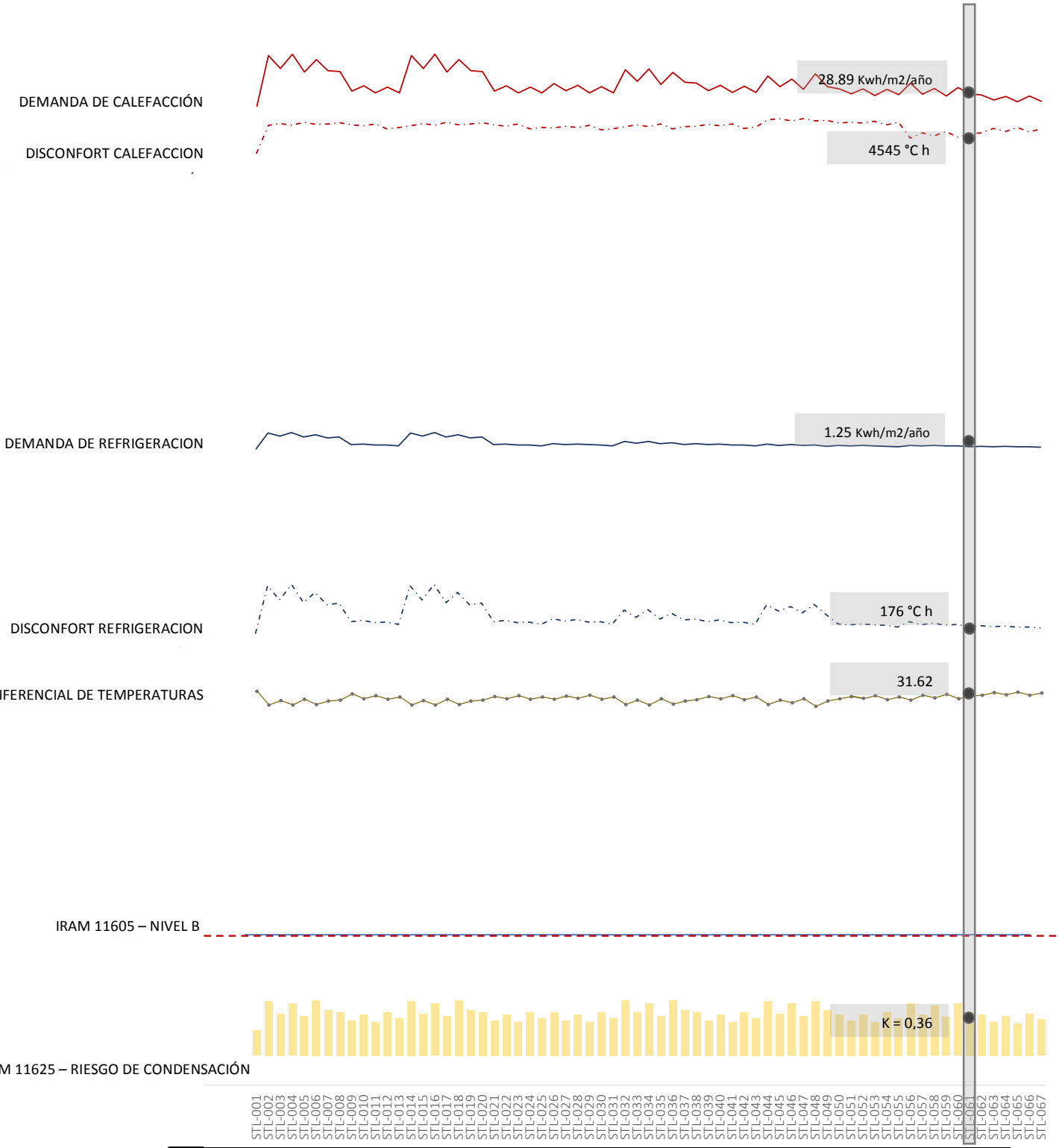



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **43,87** | kWh | 1,25 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.011,17** | kWh | 28,89 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.055,04** | kWh | **30,14** | kWh/m2/año |

| STL-061 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 060 | N° 029 | N° 025 | N° 073 | N° 099 | N° 055 |



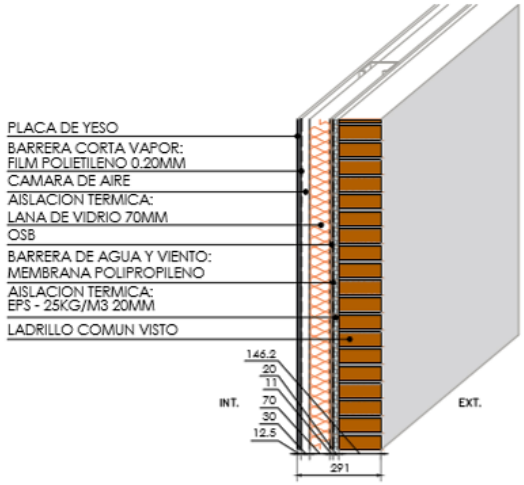

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,36 | 0% | 31,62 | 28,89 | 1,25 | 4545 | 176 |
| INC. FAMILIA | 101,94% | 0% | 100,96% | 90,67% | 49,92% | 98,93% | 62,53% |
| INC. MUNDIAL | 30,27% | 0% | 102,62% | 70,25% | 20,83% | 101,87% | 34,43% |

| STL-062 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 70MM / EPS 20MM- DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

## INDICE DE TRANSMITANCIA TERMICA "K"

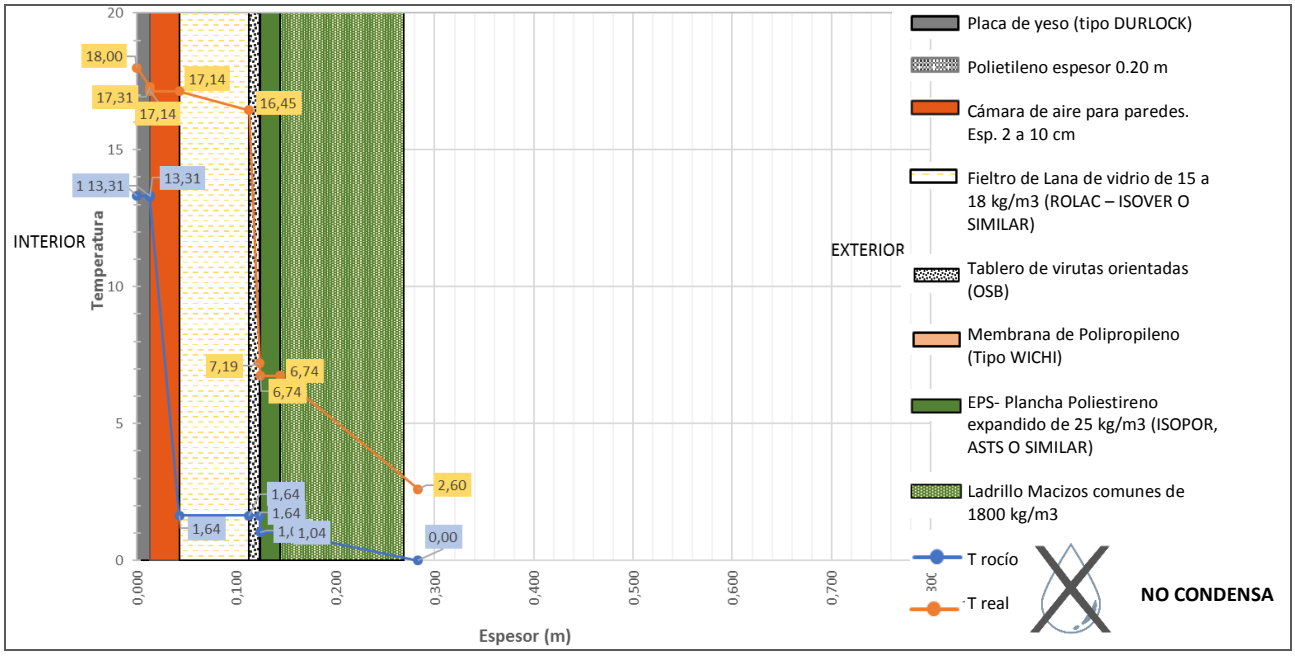
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,34 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



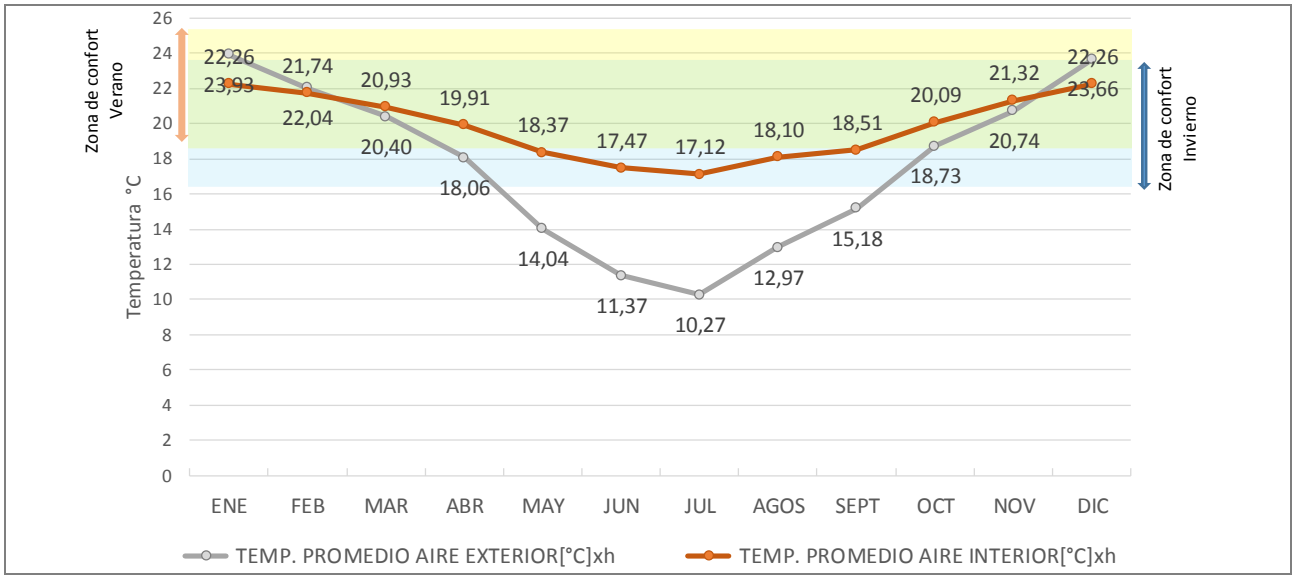

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 10,5 | 2,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,3** | **5,5** |
| | **Amortiguamiento:** | 0,011 | 0,128 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,7** | **4,9** |
| | **Amortiguamiento:** | 0,047 | 0,280 |

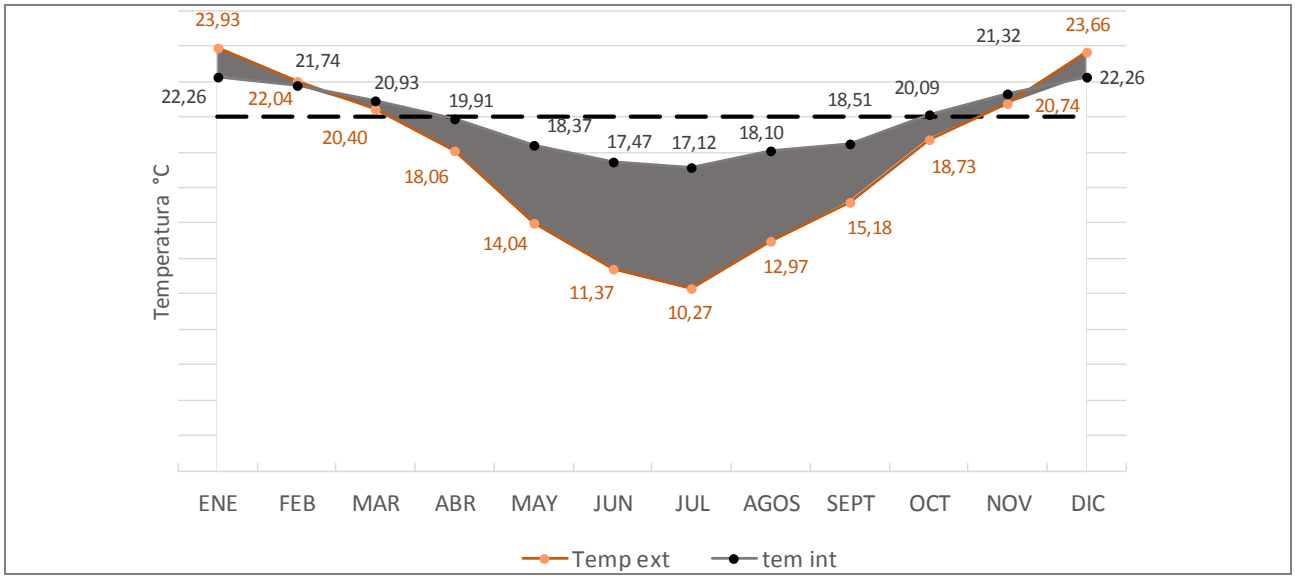
| STL-062 | MU | STEEL FRAME |
|---|---|---|

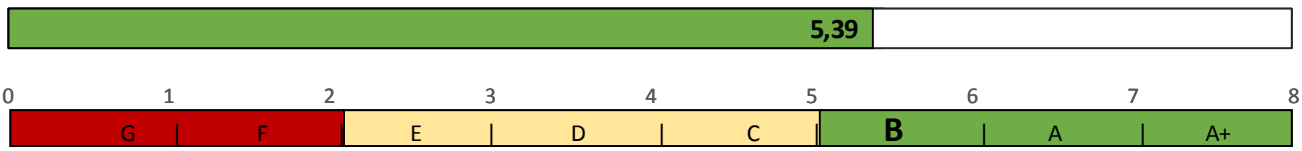
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,69** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,81** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



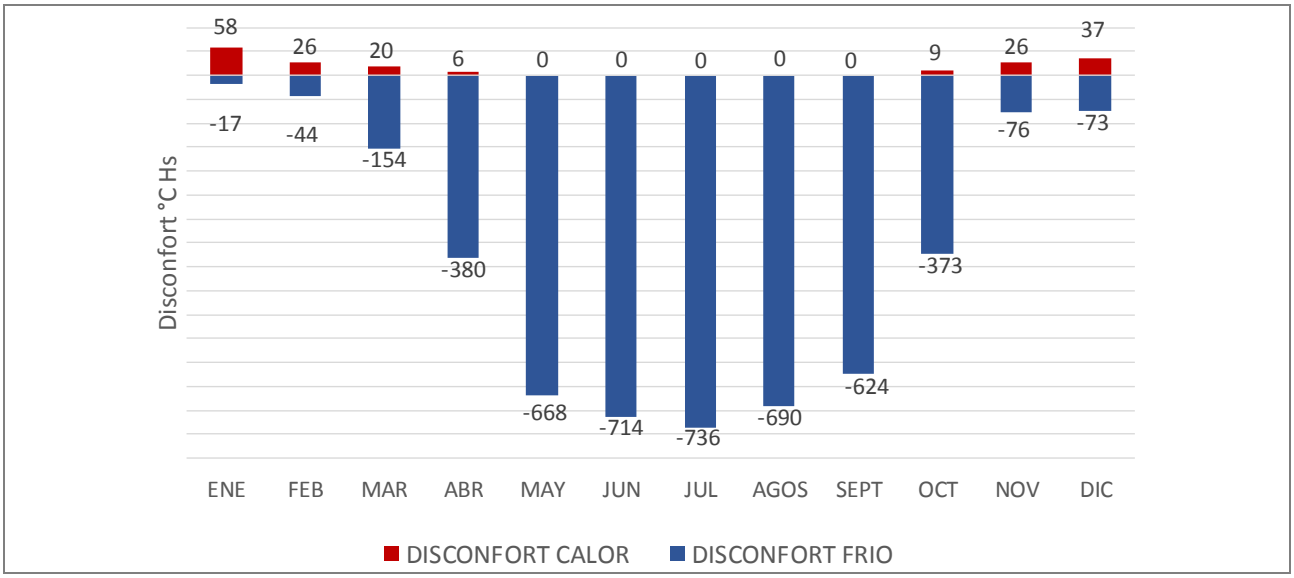




5.39 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.67

| STL-062 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

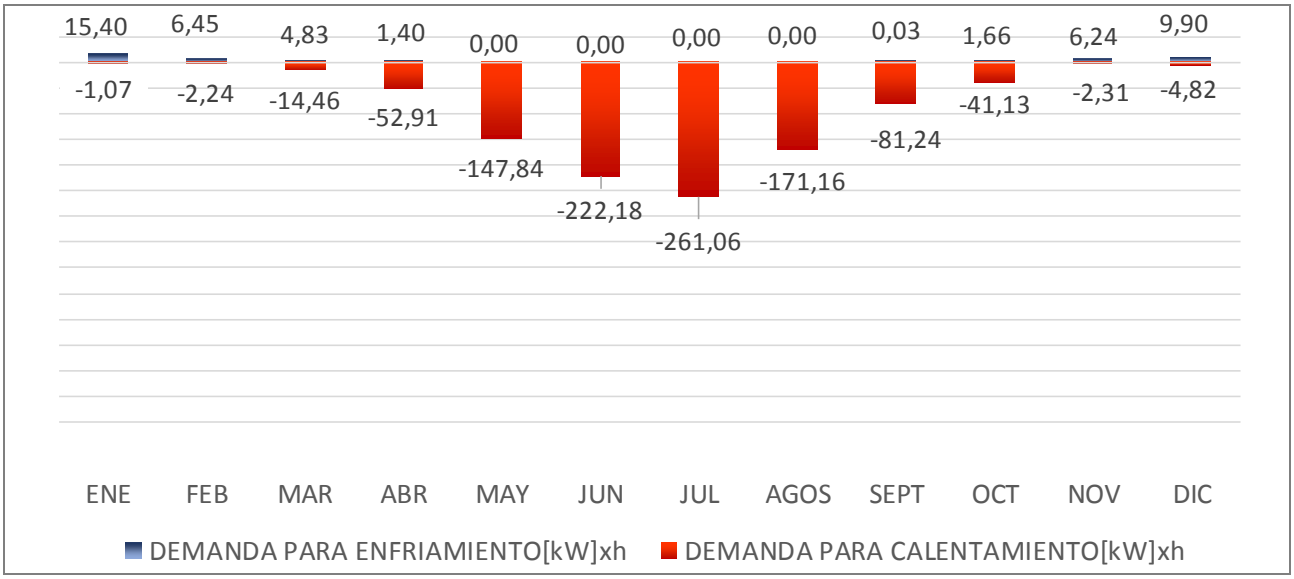
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **181** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.550** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.731** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

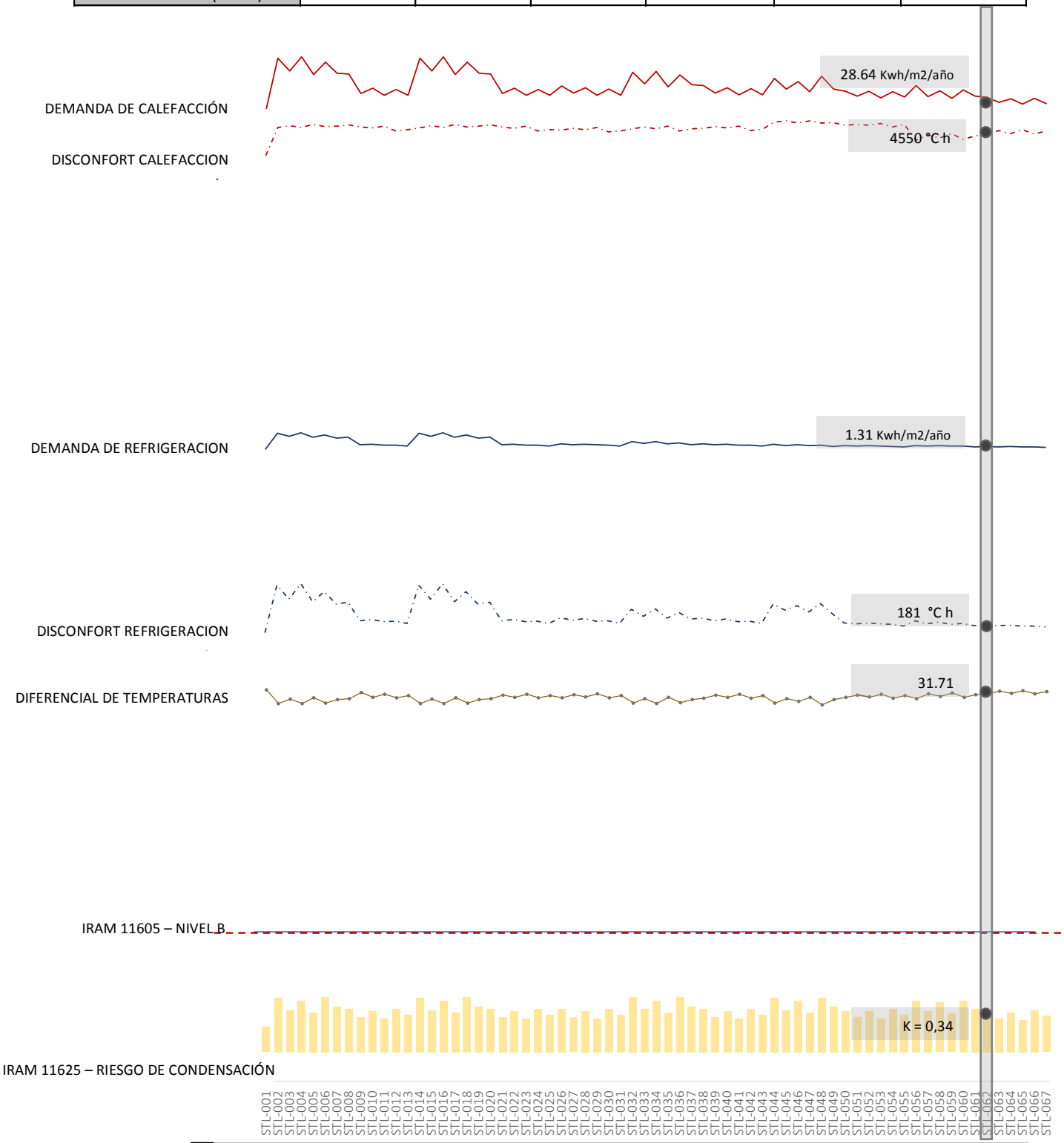



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **45,92** | kWh | 1,31 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.002,42** | kWh | 28,64 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.048,34** | kWh | **29,95** | kWh/m2/año |

| STL-062 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 044 | N° 018 | N° 017 | N° 079 | N° 105 | N° 061 |



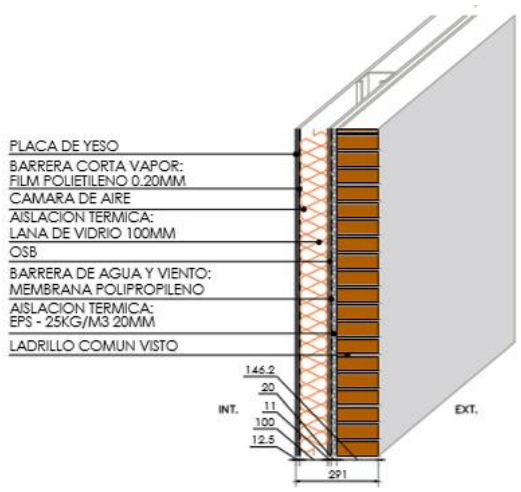

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,34 | 0% | 31,71 | 28,64 | 1,31 | 4550 | 181 |
| INC. FAMILIA | 96,28% | 0% | 101,25% | 89,89% | 52,32% | 99,04% | 64,30% |
| INC. MUNDIAL | 28,59% | 0% | 102,91% | 69,64% | 21,83% | 101,98% | 35,41% |

| STL-063 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM- DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

## INDICE DE TRANSMITANCIA TERMICA "K"

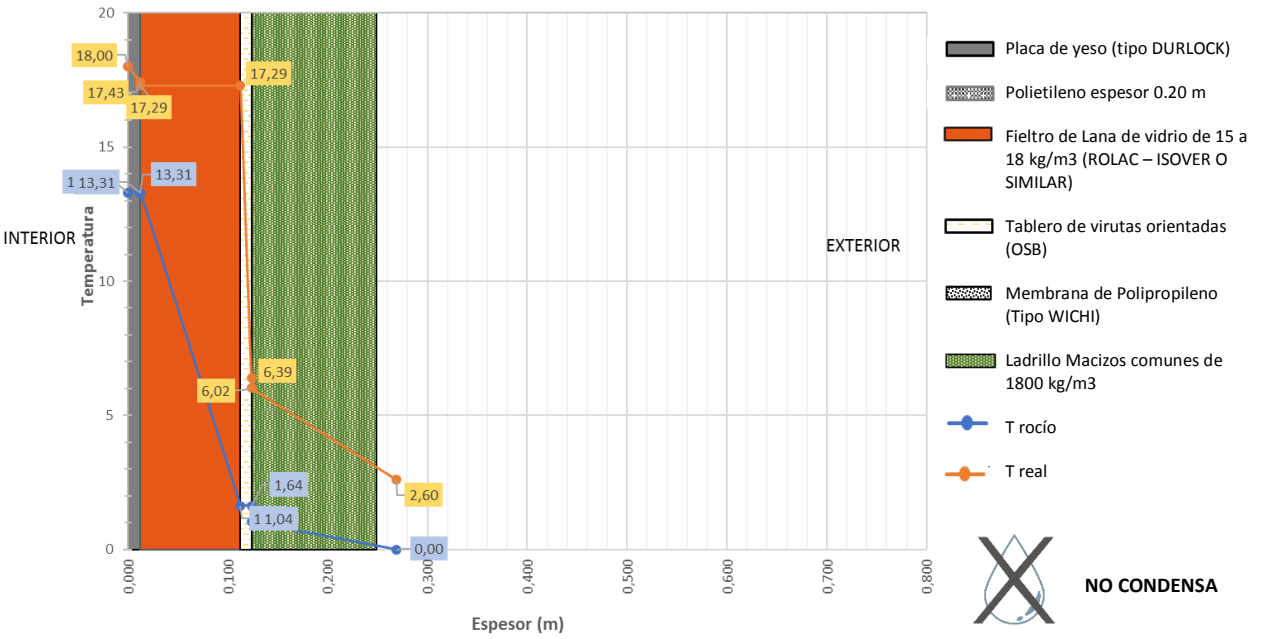
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,28 | 0,28 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



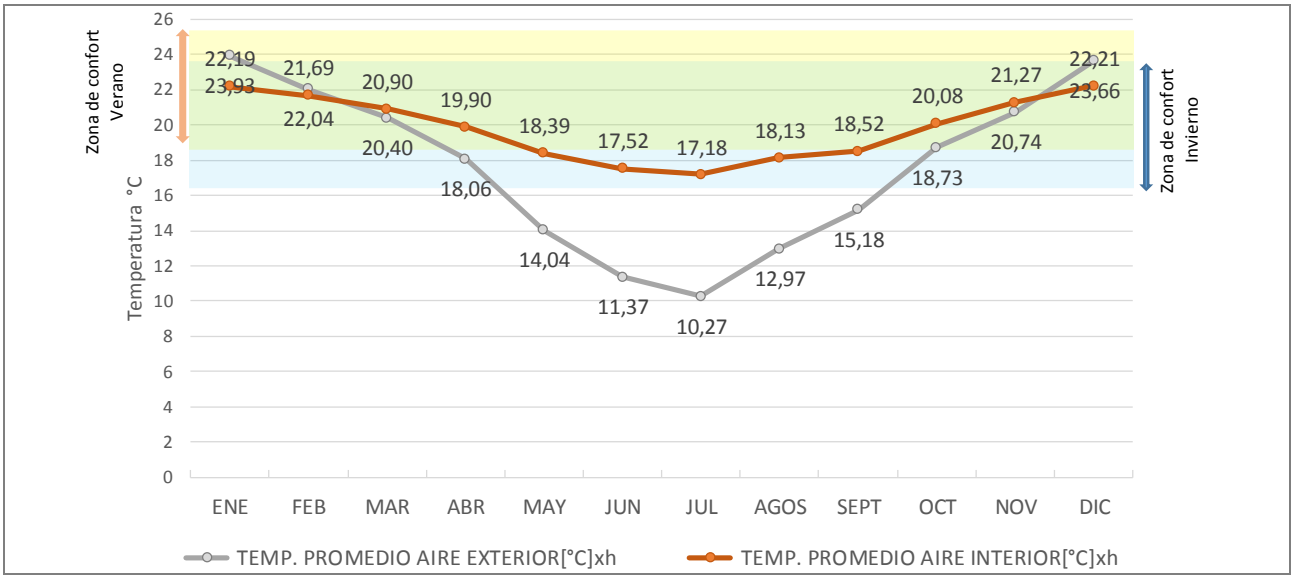

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 8,5 | 1,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **13,6** | **6,1** |
| | **Amortiguamiento:** | 0,007 | 0,103 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,9** | **5,2** |
| | **Amortiguamiento:** | 0,034 | 0,257 |

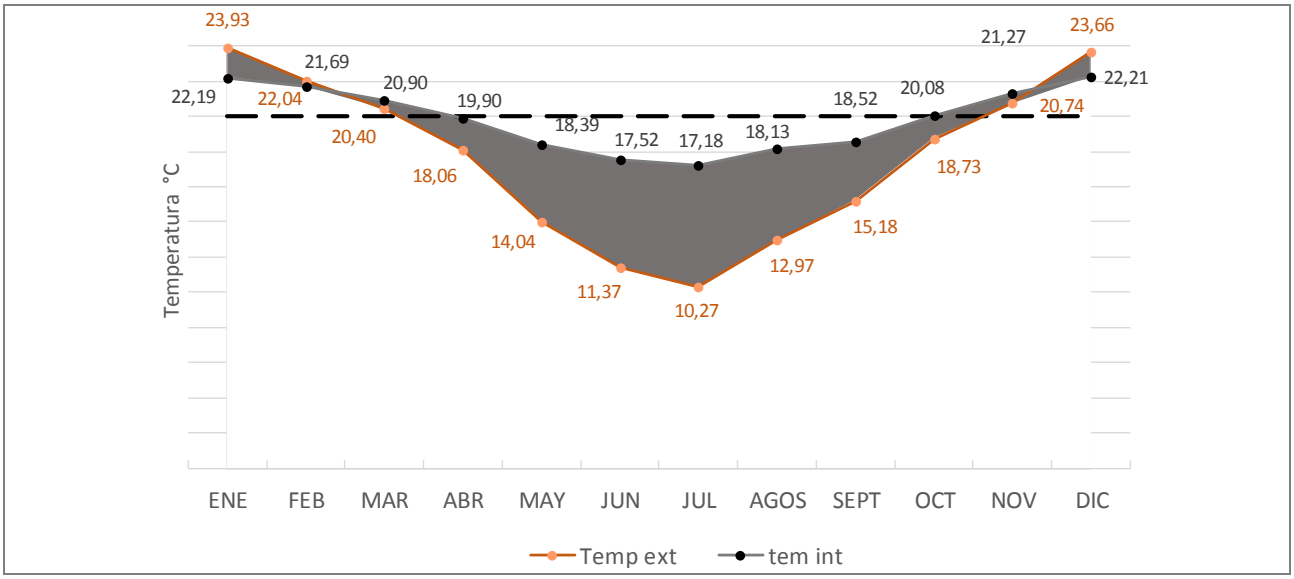
| STL-063 | MU | STEEL FRAME |
|---|---|---|

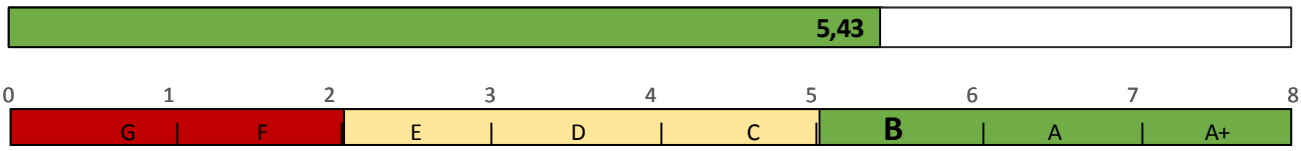
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,58** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **14,93** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



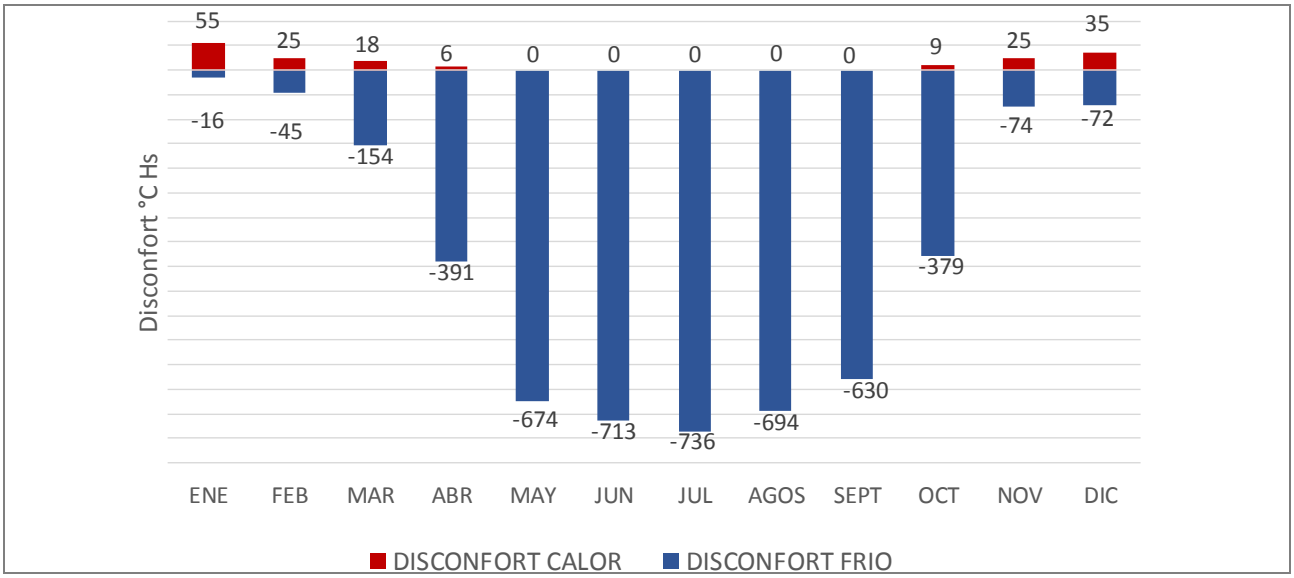




5.43 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.68

| STL-063 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

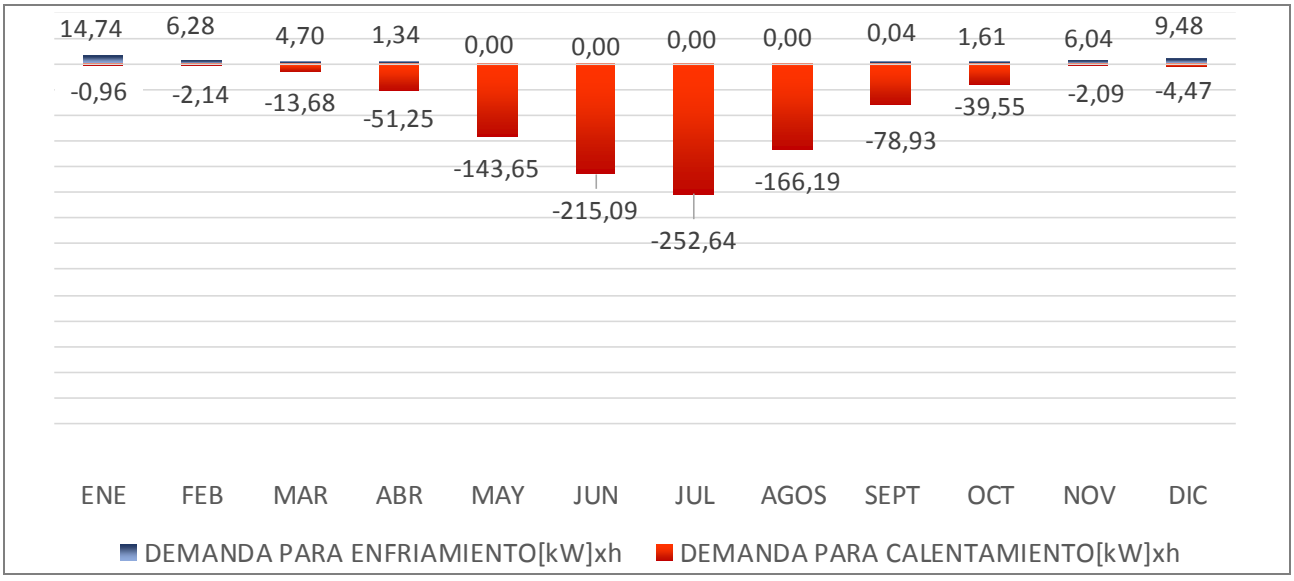
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **174** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.579** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.752** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

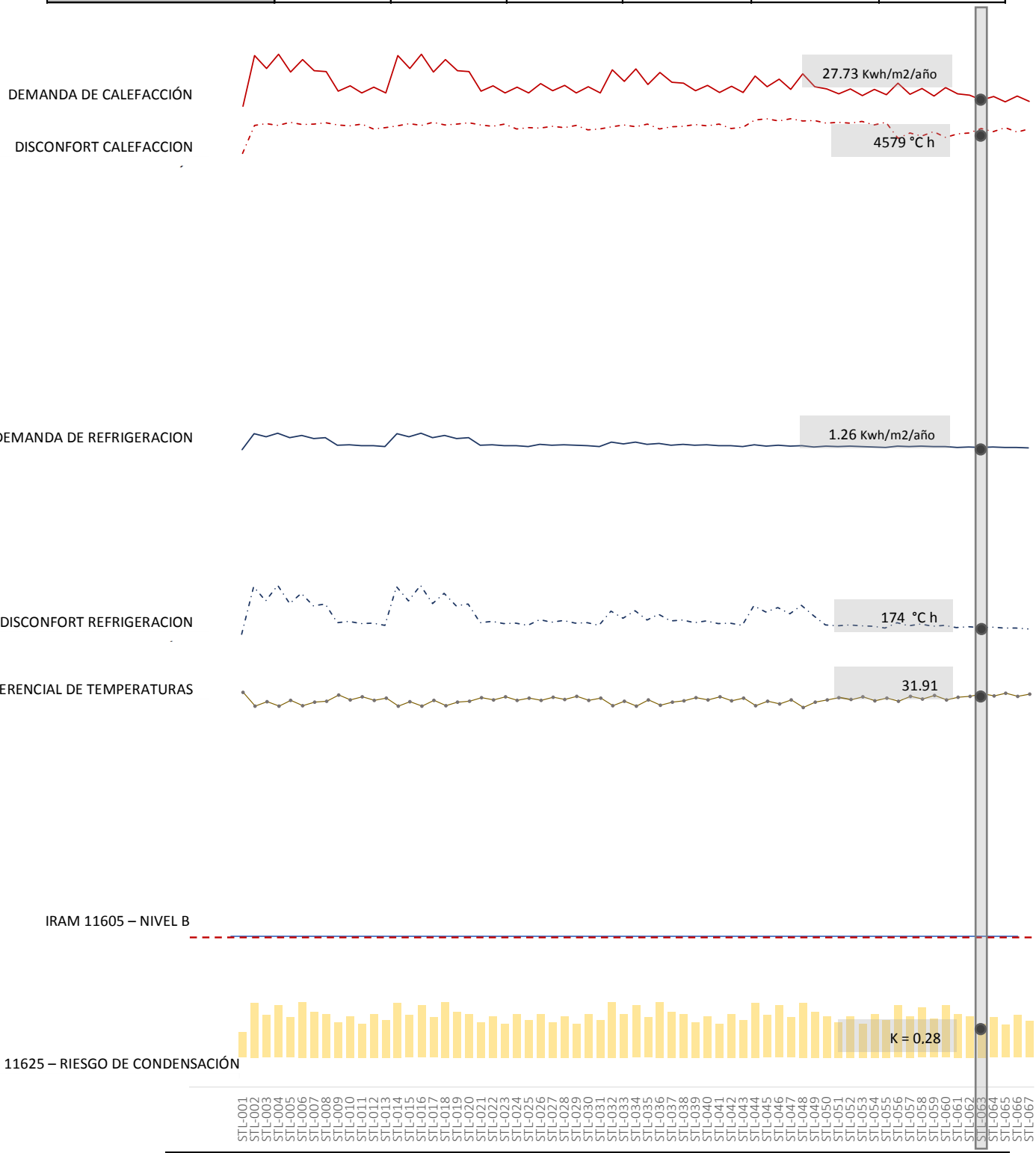



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **44,22** | kWh | 1,26 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **970,63** | kWh | 27,73 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.014,85** | kWh | **29,00** | kWh/m2/año |

| STL-063 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 012 | N° 011 | N° 007 | N° 076 | N° 133 | N° 054 |



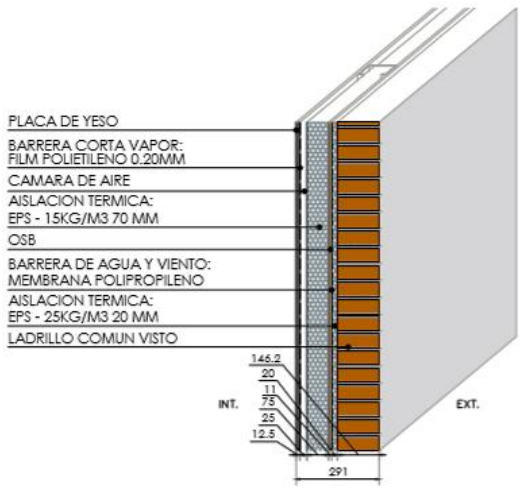

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,28 | 0% | 31,91 | 27,73 | 1,26 | 4579 | 174 |
| INC. FAMILIA | 79,29% | 0% | 101,89% | 87,03% | 50,32% | 99,67% | 61,82% |
| INC. MUNDIAL | 23,54% | 0% | 103,56% | 67,43% | 20,99% | 102,63% | 34,04% |

| STL-064 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 70MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

## INDICE DE TRANSMITANCIA TERMICA "K"

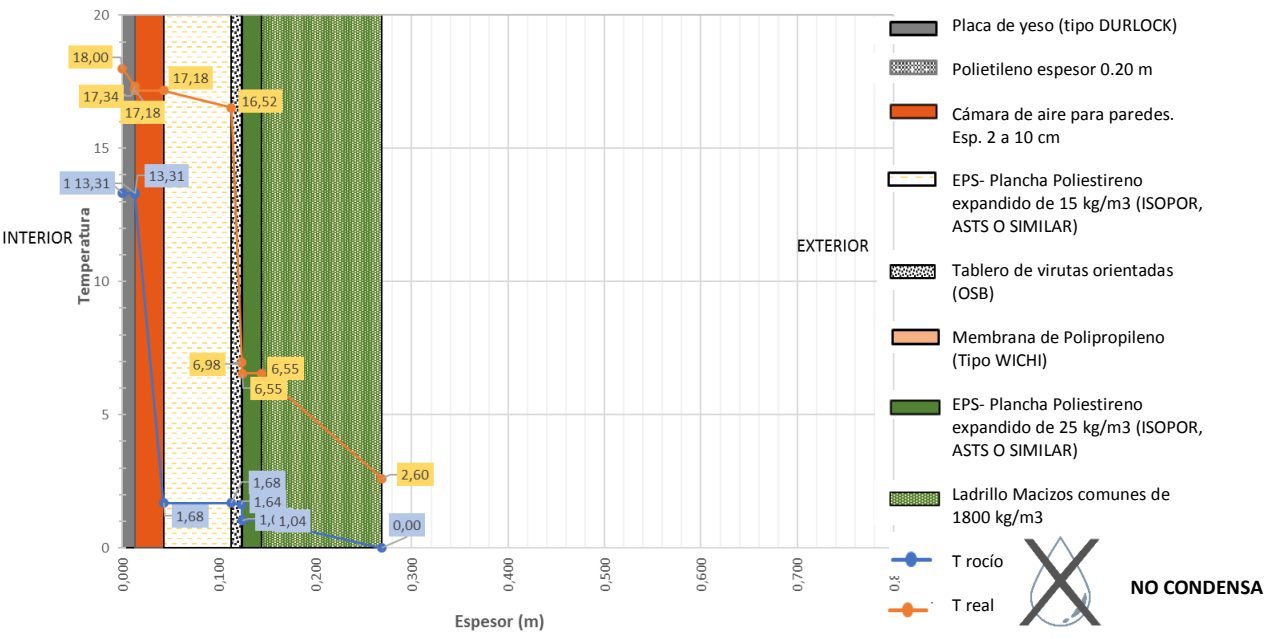
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,33 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



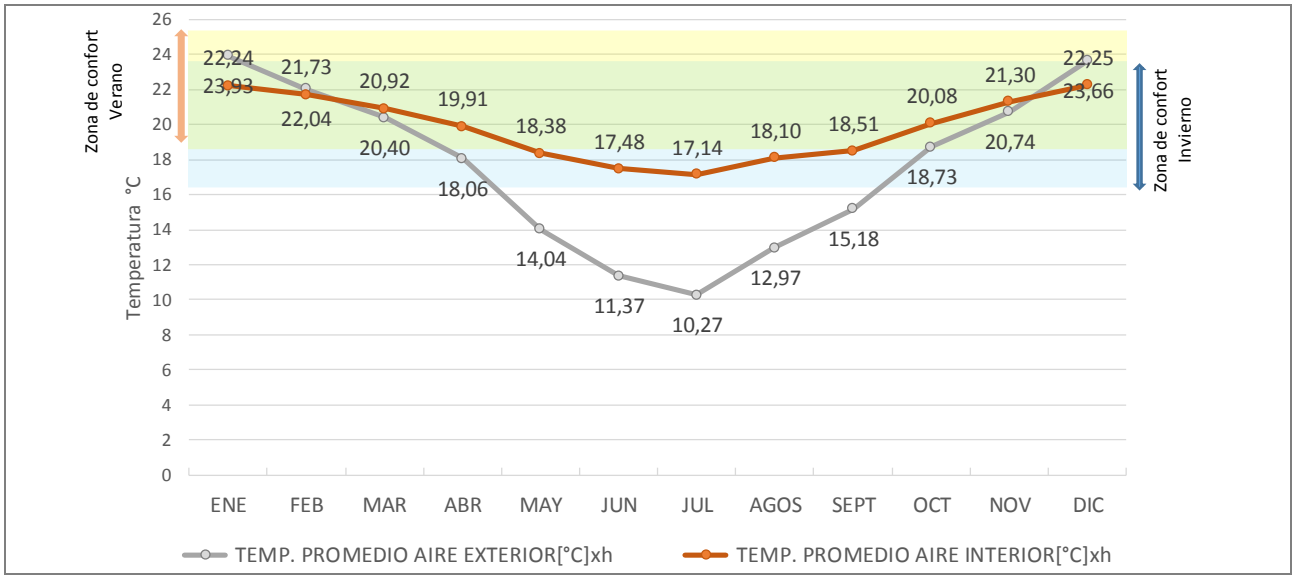

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 9,9 | 2,0 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,6** | **5,7** |
| | **Amortiguamiento:** | 0,010 | 0,122 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,0** | **4,9** |
| | **Amortiguamiento:** | 0,043 | 0,275 |

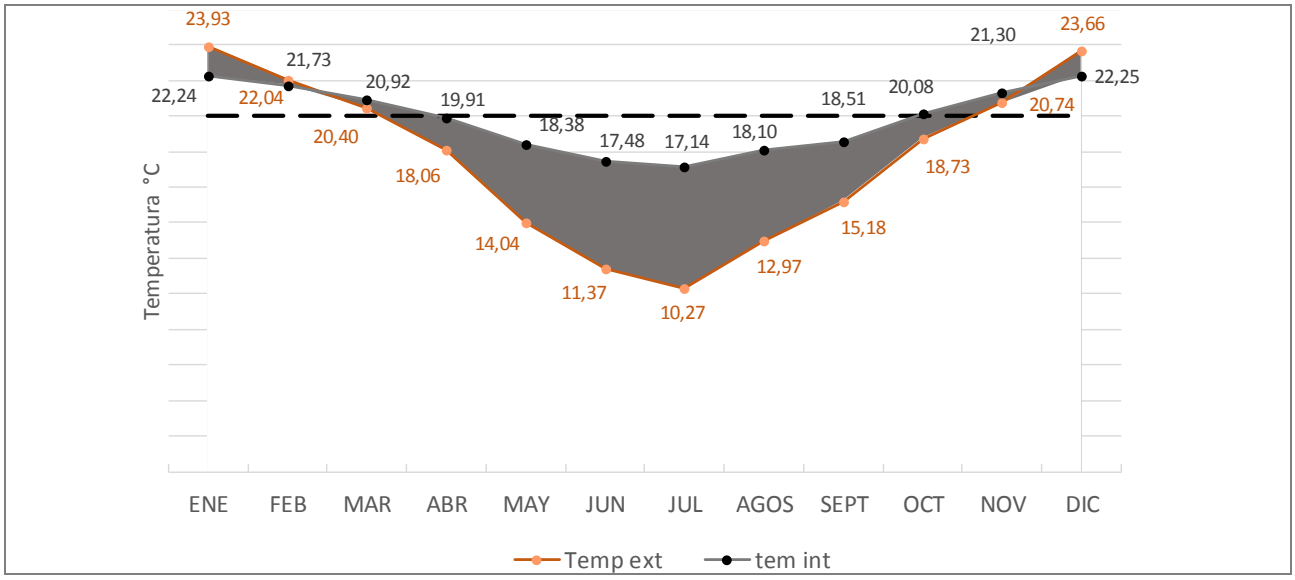
| STL-064 | MU | STEEL FRAME |
|---|---|---|

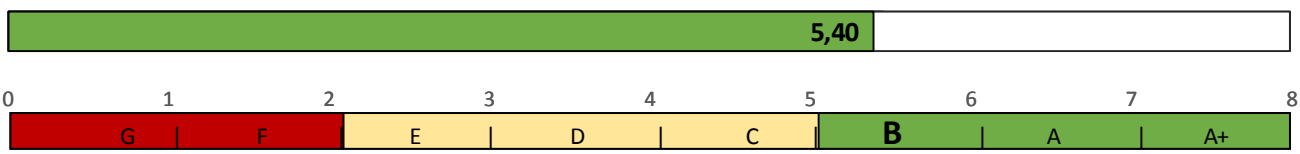
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,66** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,85** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



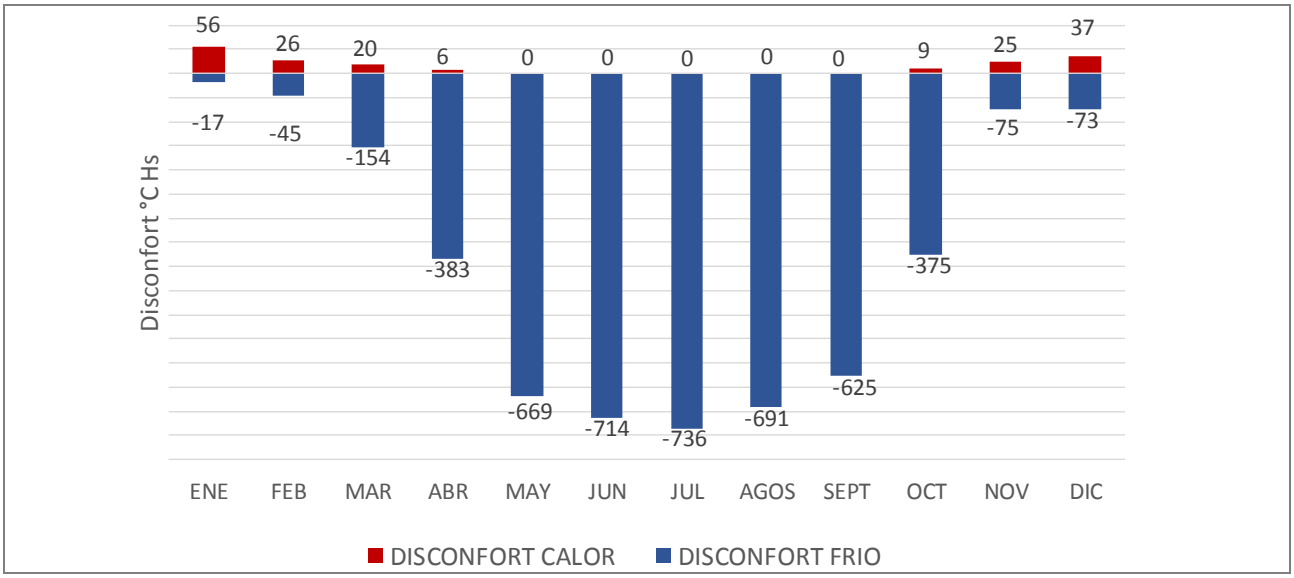




5,40 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,68

| STL-064 | MU | STEEL FRAME |
|---|---|---|

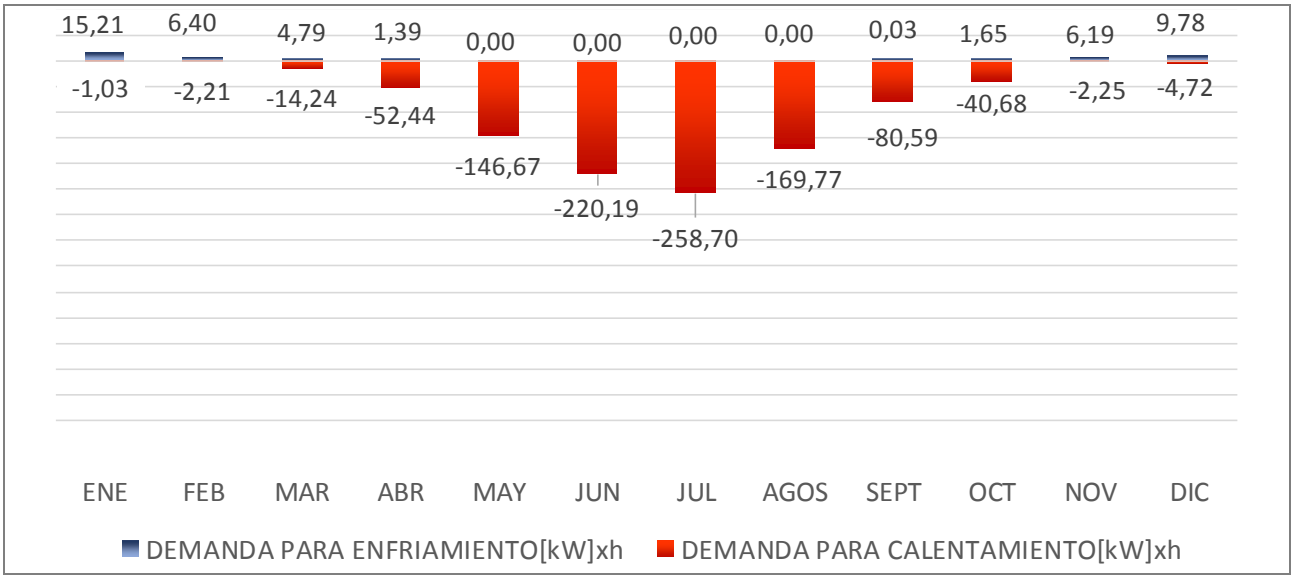
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **179** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.558** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.738** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

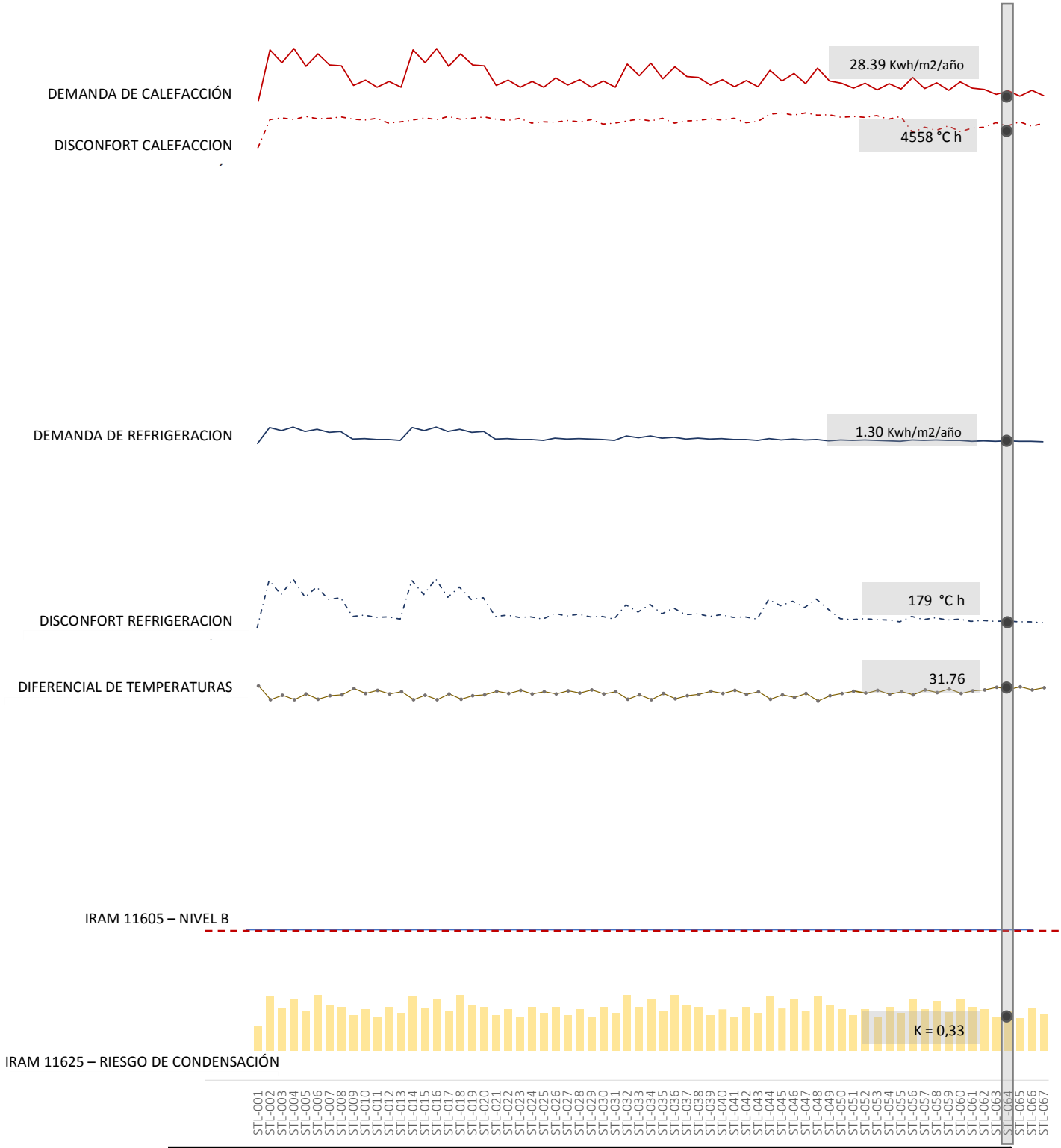



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **45,44** | kWh | 1,30 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **993,49** | kWh | 28,39 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.038,94** | kWh | **29,68** | kWh/m2/año |

| STL-064 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 033 | N° 017 | N° 010 | N° 078 | N° 113 | N° 059 |



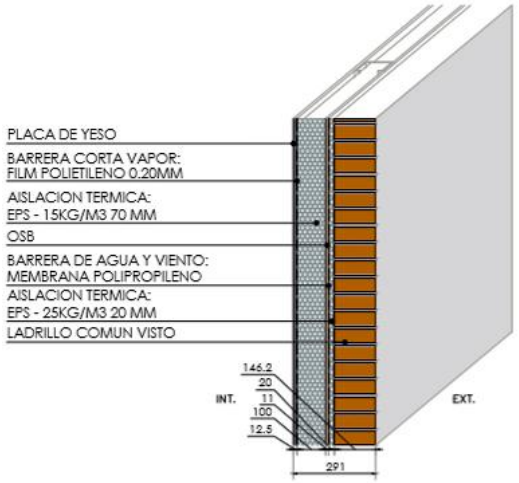

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,33 | 0% | 31,76 | 28,39 | 1,3 | 4558 | 179 |
| INC. FAMILIA | 93,45% | 0% | 101,41% | 89,10% | 51,92% | 99,21% | 63,59% |
| INC. MUNDIAL | 27,75% | 0% | 103,07% | 69,03% | 21,66% | 102,16% | 35,02% |

| STL-065 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

## INDICE DE TRANSMITANCIA TERMICA "K"

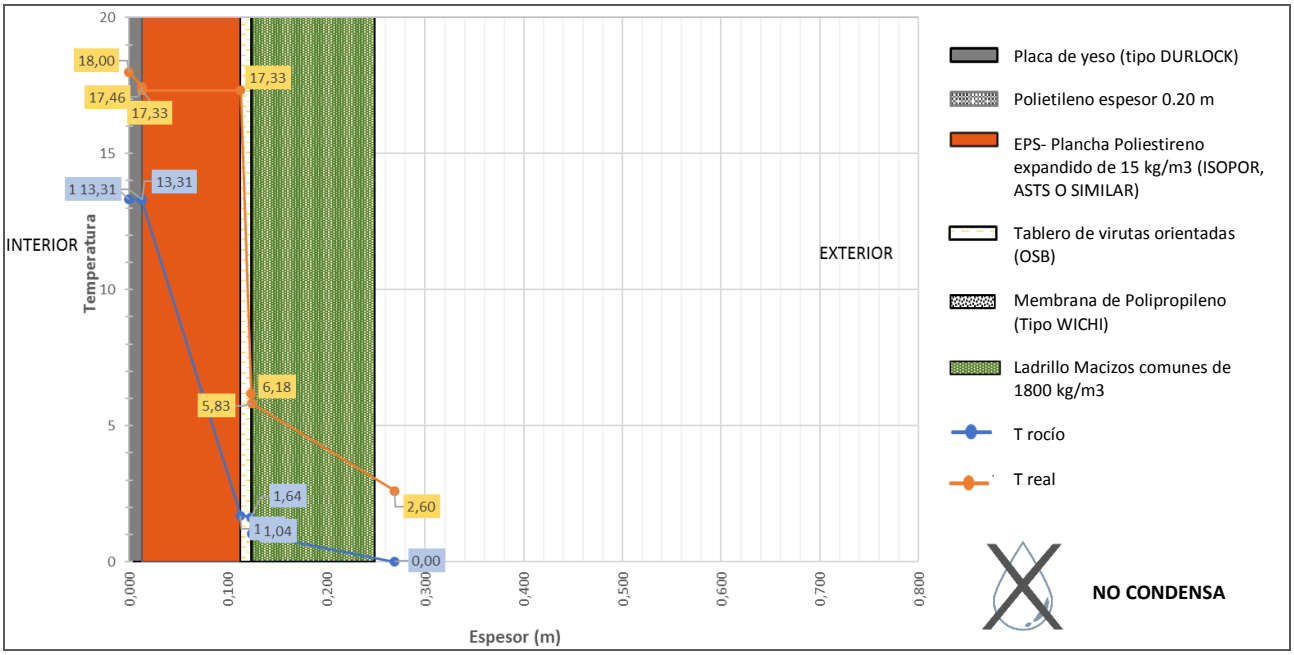
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,27 | 0,27 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



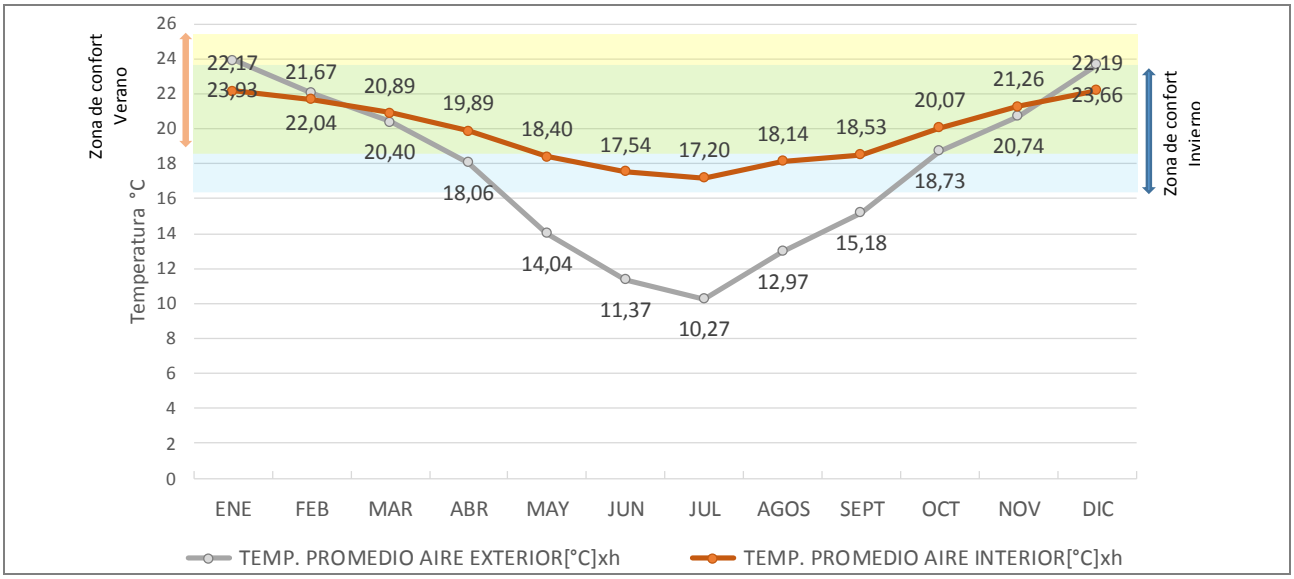

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 8,0 | 1,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,0** | **6,3** |
| | **Amortiguamiento:** | 0,006 | 0,096 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **13,3** | **5,3** |
| | **Amortiguamiento:** | 0,030 | 0,250 |

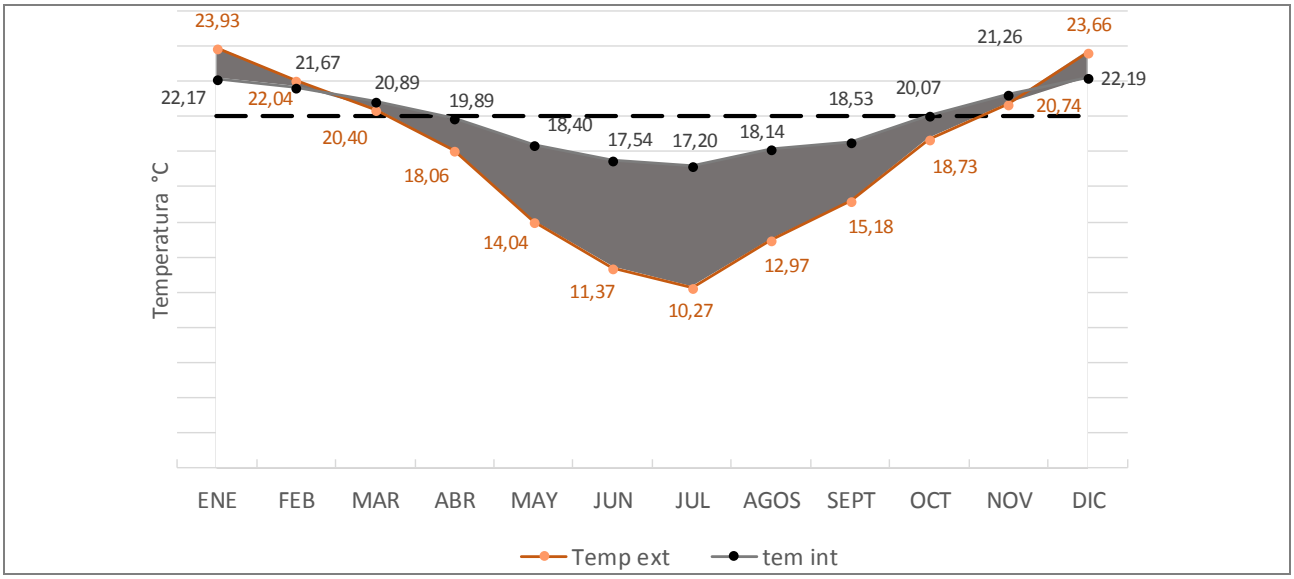
| STL-065 | MU | STEEL FRAME |
|---|---|---|

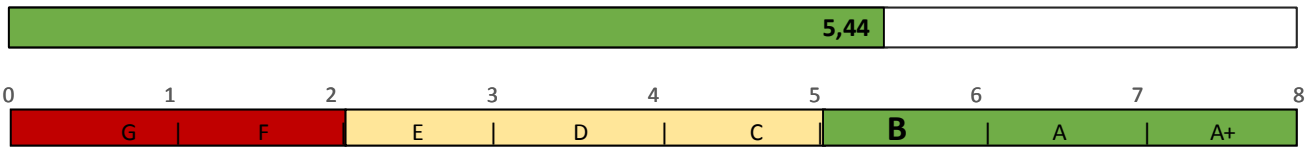
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,55** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **14,96** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



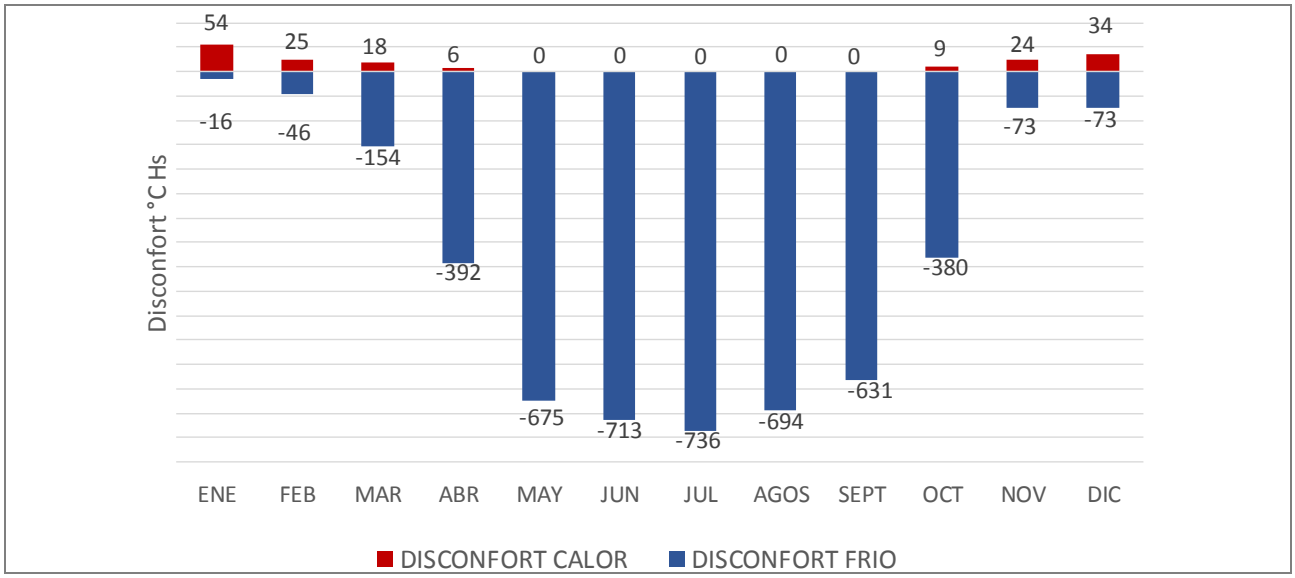




5,44 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,68

| STL-065 | MU | STEEL FRAME |
|---|---|---|

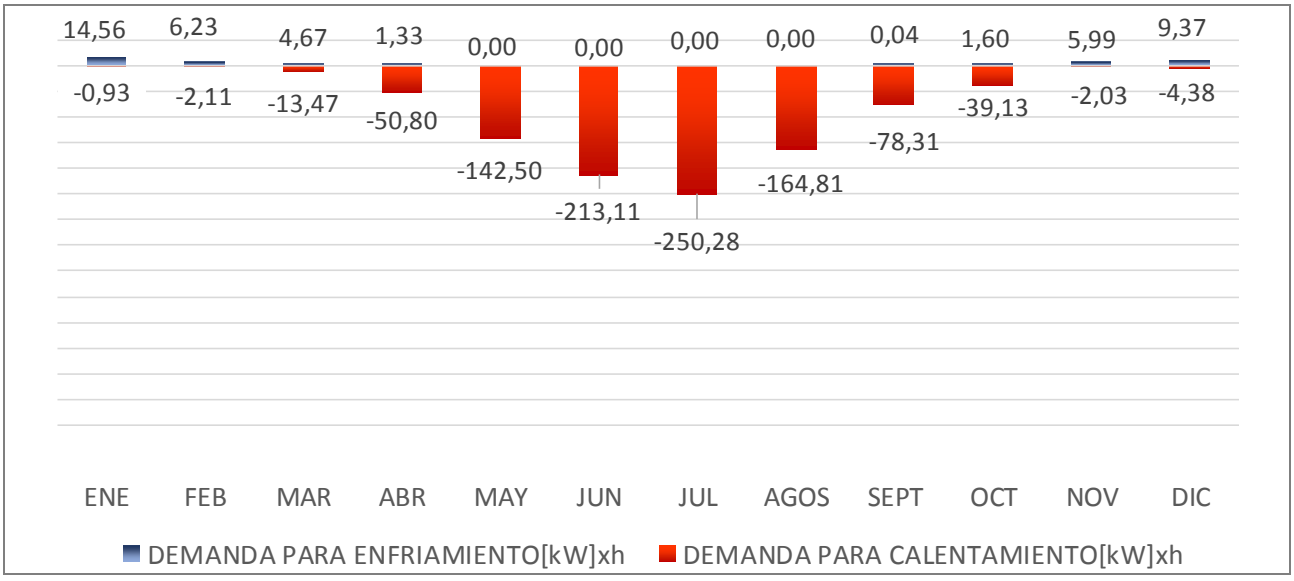
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **172** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.585** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.756** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

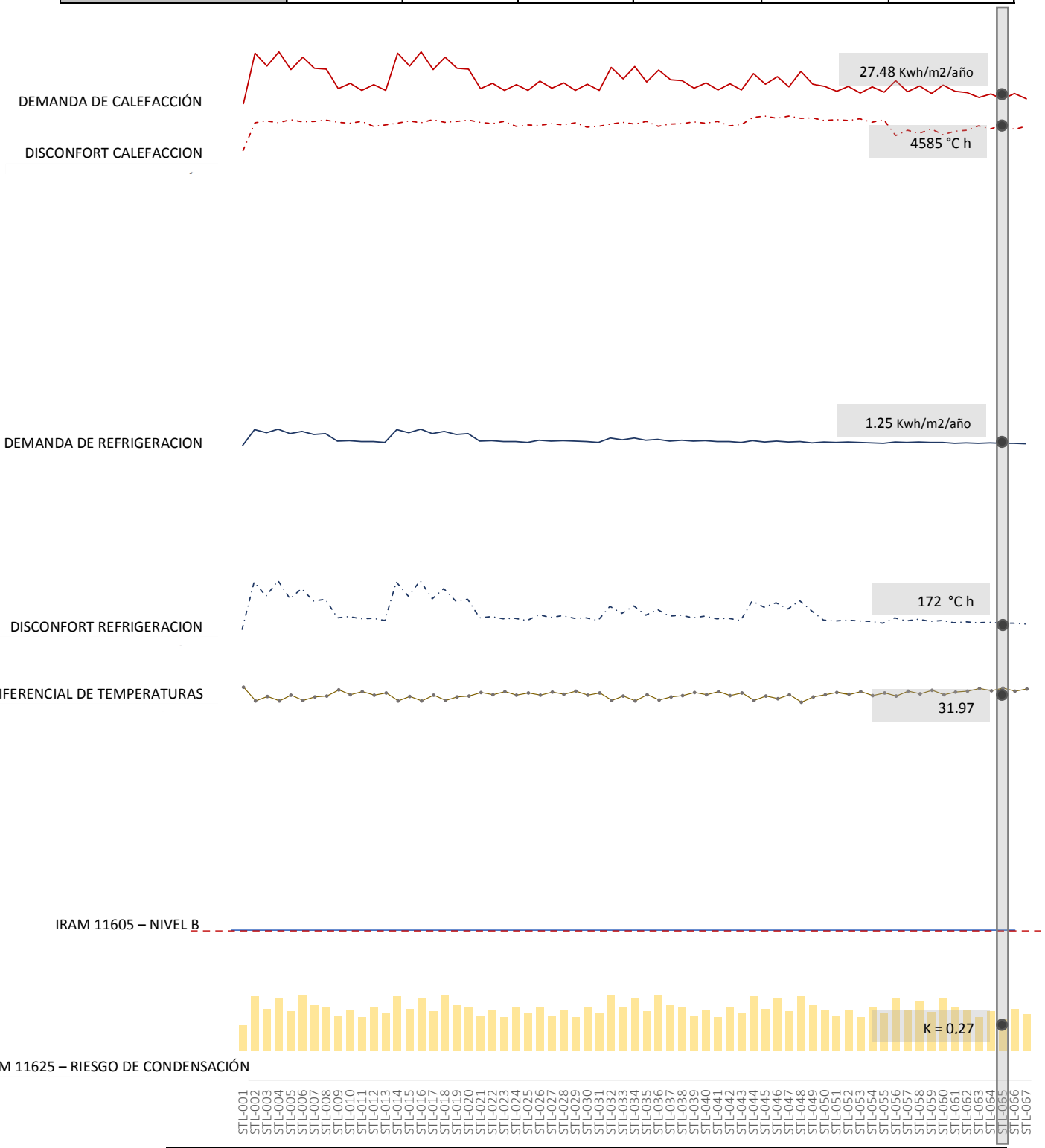



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **43,78** | kWh | 1,25 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **961,86** | kWh | 27,48 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.005,65** | kWh | **28,73** | kWh/m2/año |

| STL-065 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 006 | N° 010 | N° 005 | N° 074 | N° 140 | N° 052 |



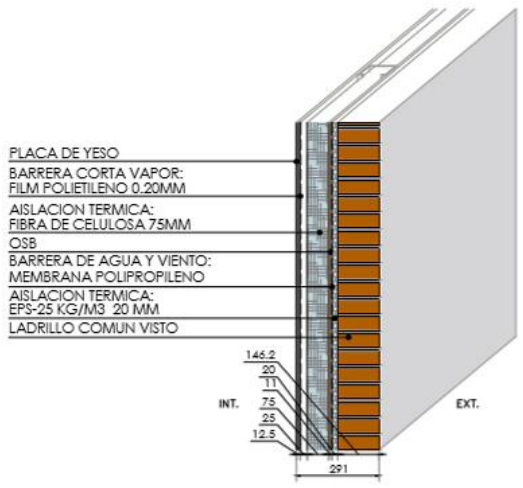

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,27 | 0% | 31,97 | 27,48 | 1,25 | 4585 | 172 |
| INC. FAMILIA | 76,46% | 0% | 102,08% | 86,25% | 49,92% | 99,80% | 61,11% |
| INC. MUNDIAL | 22,70% | 0% | 103,75% | 66,82% | 20,83% | 102,77% | 33,65% |

| STL-066 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

## INDICE DE TRANSMITANCIA TERMICA "K"

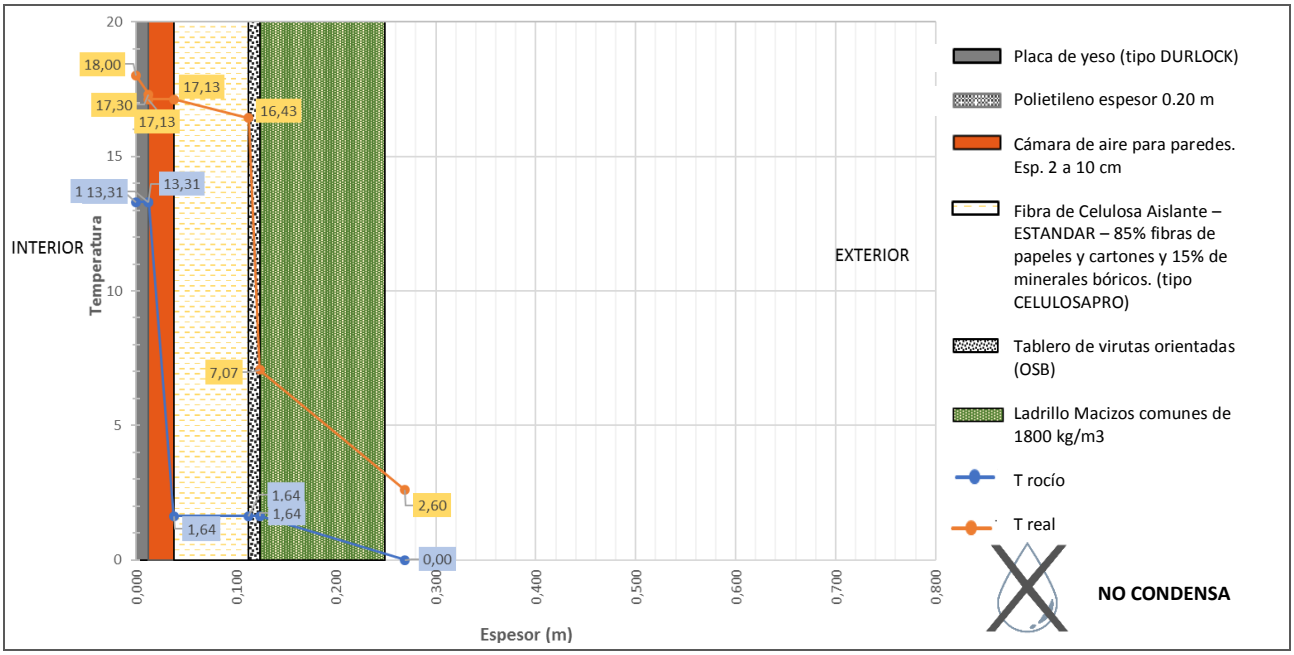
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,35 | 0,35 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



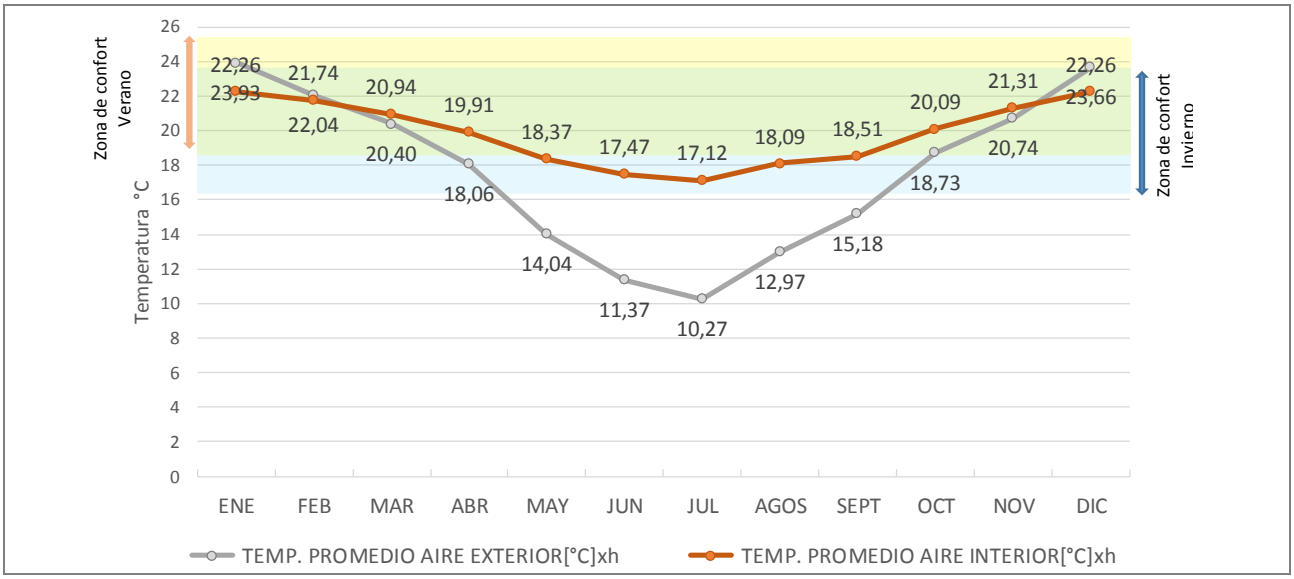

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 11,8 | 3,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **12,8** | **6,8** |
| | **Amortiguamiento:** | 0,009 | 0,080 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **11,9** | **5,7** |
| | **Amortiguamiento:** | 0,045 | 0,225 |

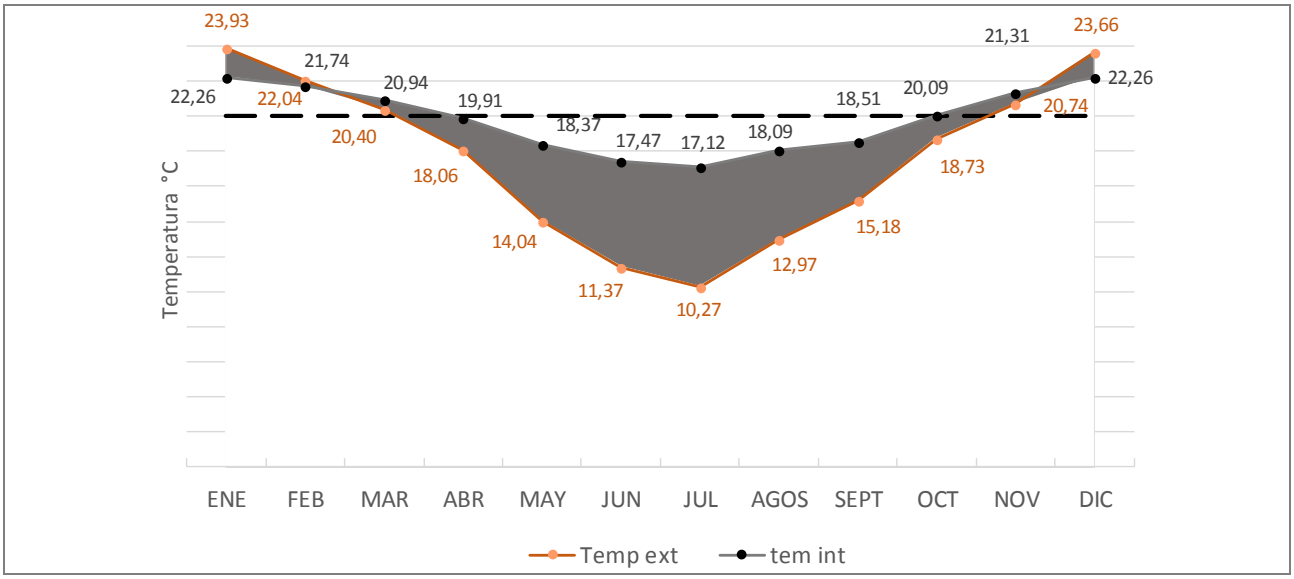
| STL-066 | MU | STEEL FRAME |
|---|---|---|

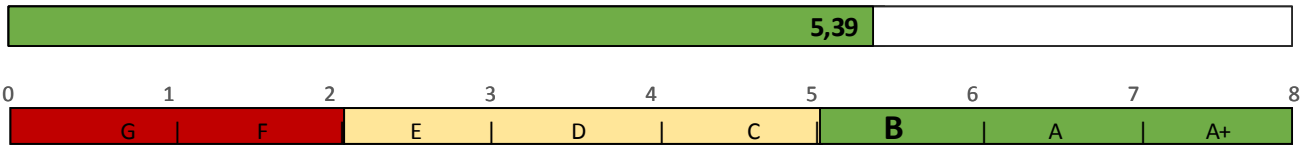
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,59** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 08:00 hs | **14,87** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



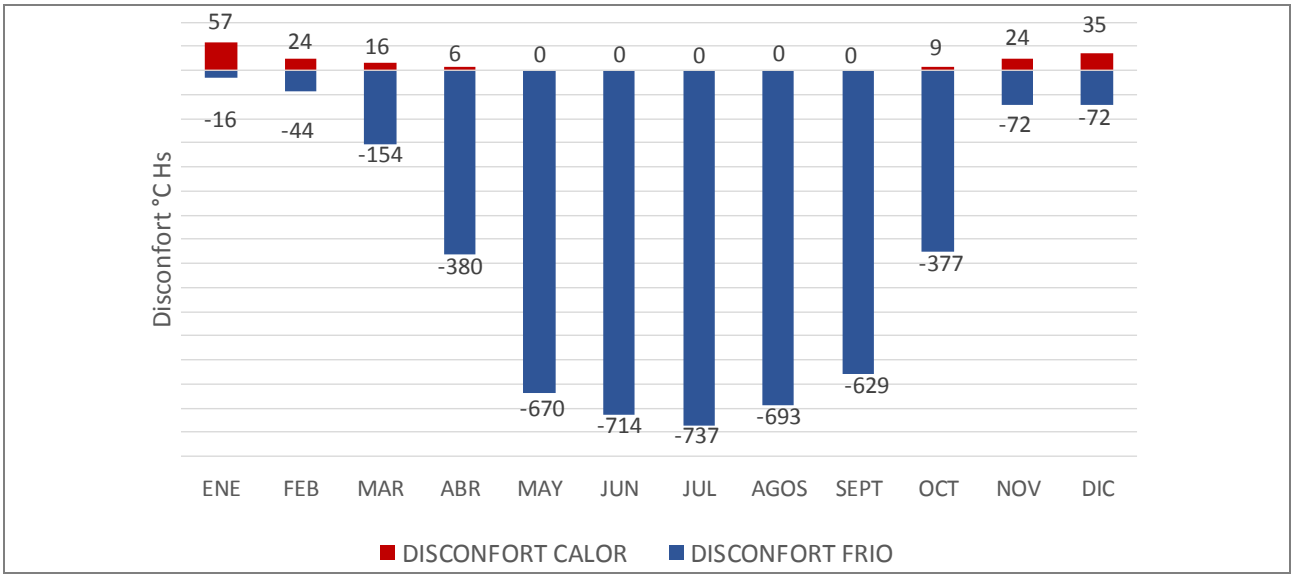




5,39 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.67

| STL-066 | MU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

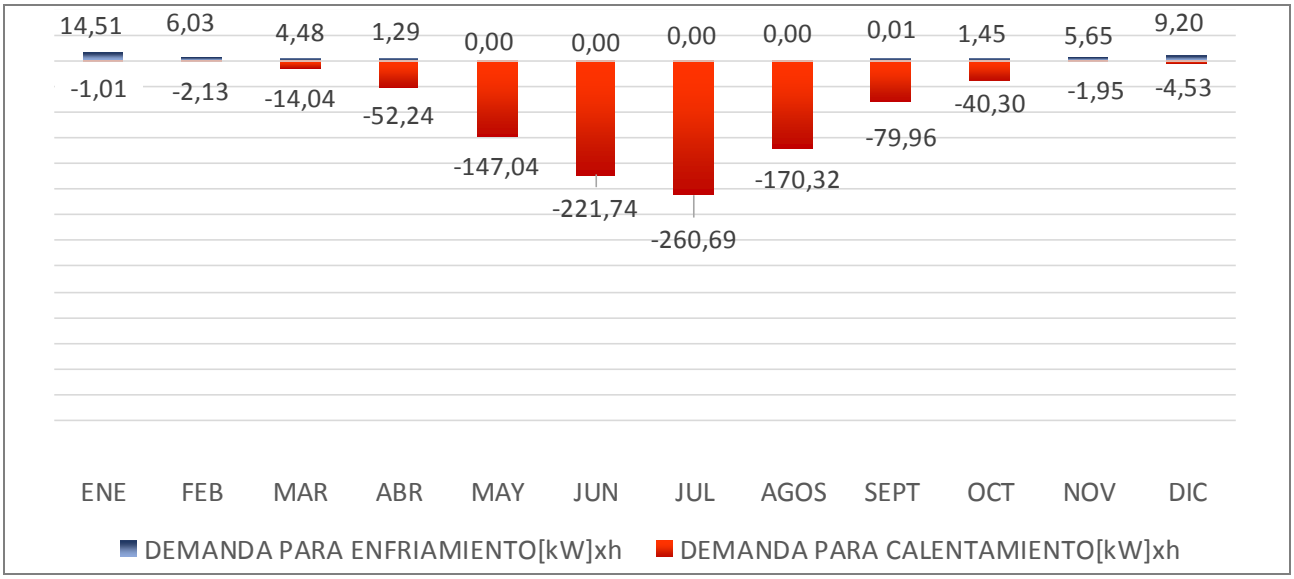
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **171** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.557** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.728** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

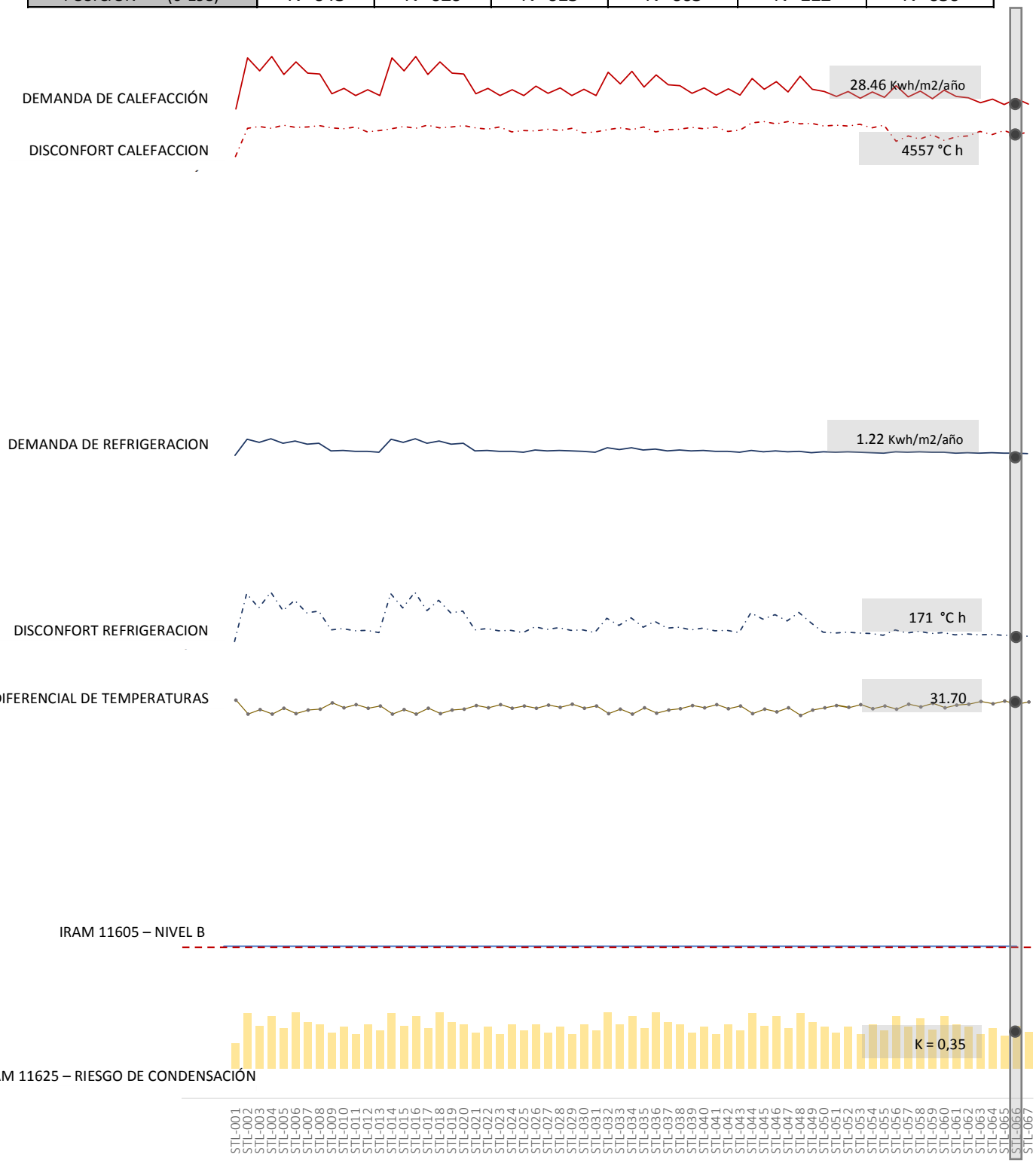



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **42,61** | kWh | 1,22 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **995,94** | kWh | 28,46 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.038,55** | kWh | **29,67** | kWh/m2/año |

| STL-066 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 048 | N° 020 | N° 013 | N° 065 | N° 112 | N° 050 |



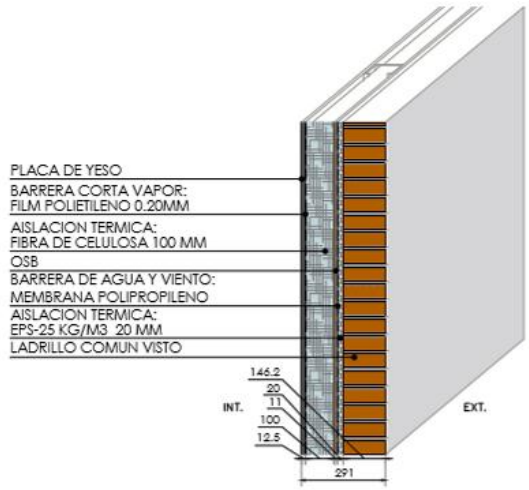

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,35 | 0% | 31,7 | 28,46 | 1,22 | 4557 | 171 |
| INC. FAMILIA | 99,11% | 0% | 101,22% | 89,32% | 48,72% | 99,19% | 60,75% |
| INC. MUNDIAL | 29,43% | 0% | 102,88% | 69,20% | 20,33% | 102,14% | 33,45% |

| STL-067 | MU | STEEL FRAME |
|---|---|---|

SISTEMA COMBINADO: INTERIOR: ENTRAMADO ESTRUCTURAL DE ACERO CON TERMINACION EN PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM/ EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR. EXTERIOR: MURO LADRILLO VISTO E.: 0,15 M VINCULADO A PERFILERIA.

## INDICE DE TRANSMITANCIA TERMICA "K"

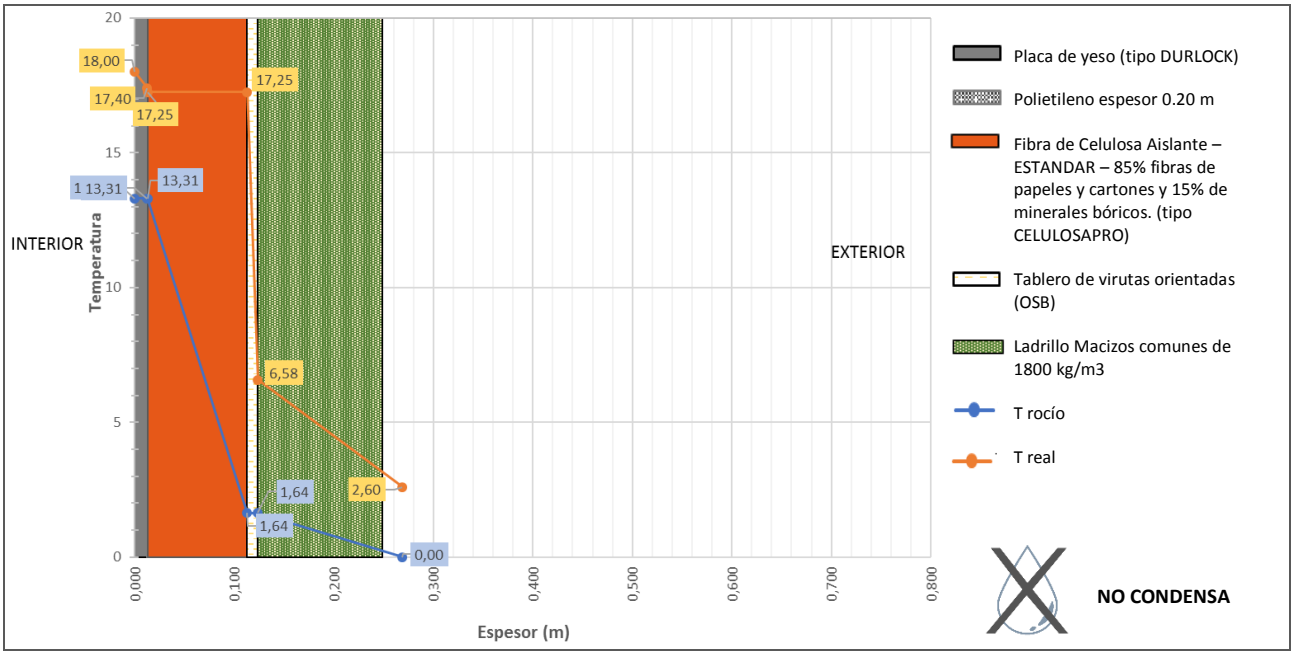
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,30 | 0,30 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



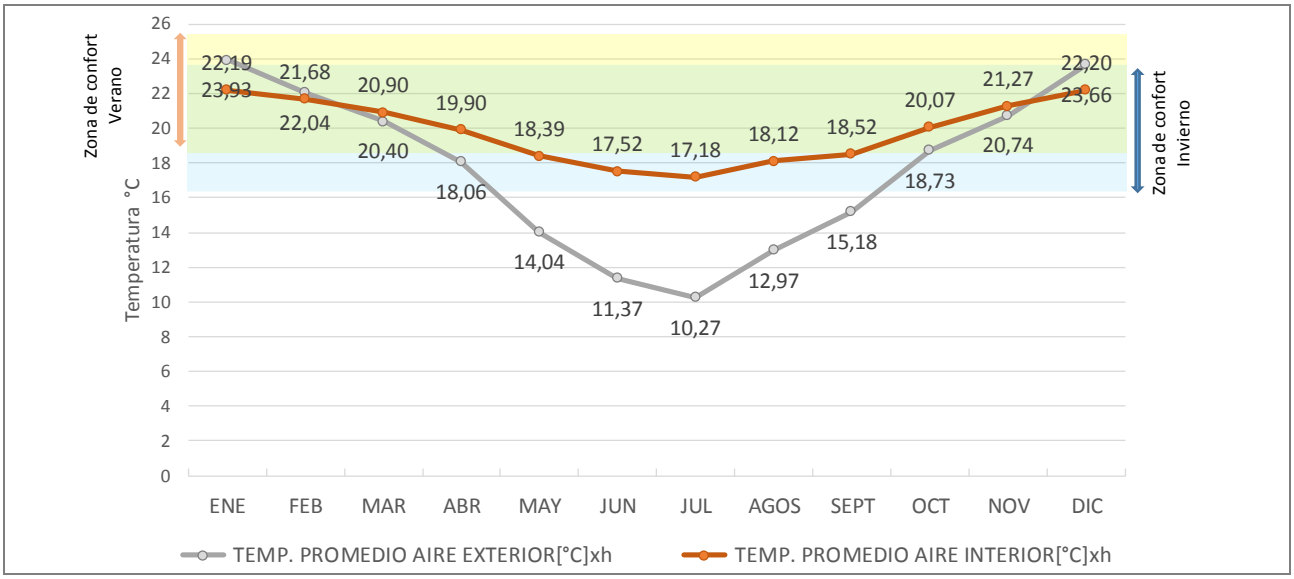

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 10,3 | 3,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **14,1** | **7,8** |
| | **Amortiguamiento:** | 0,005 | 0,055 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **13,0** | **6,4** |
| | **Amortiguamiento:** | 0,033 | 0,188 |

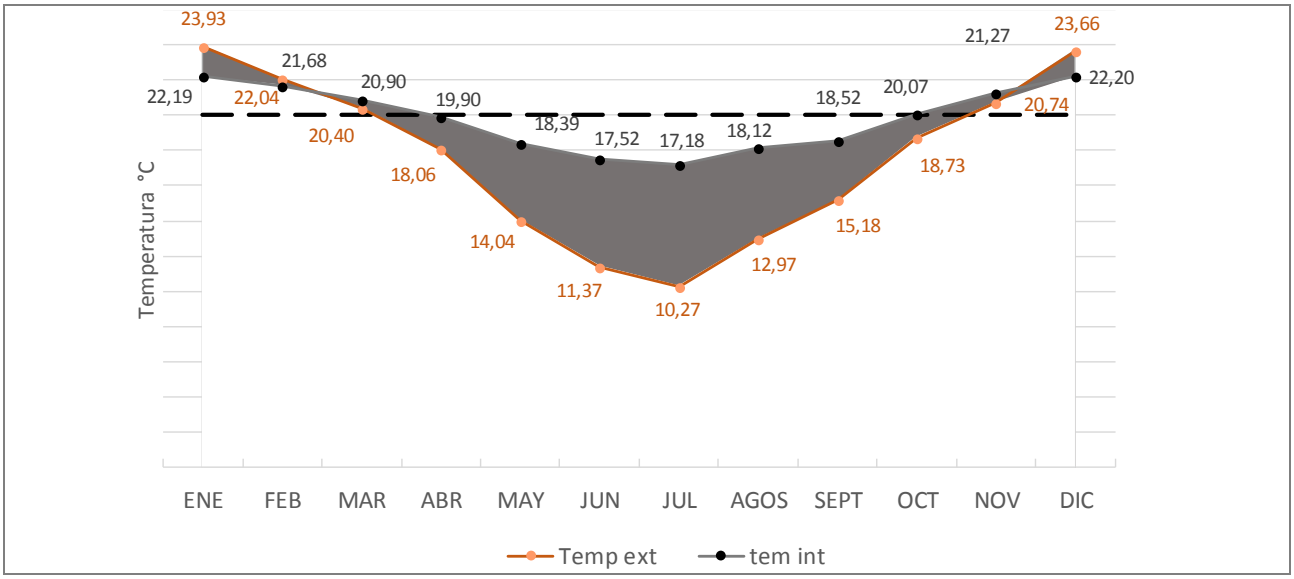
| STL-067 | MU | STEEL FRAME |
|---|---|---|

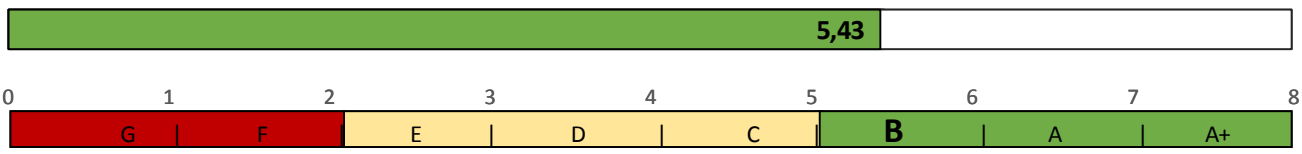
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 15/12 18:00 hs | **24,47** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 25/07 08:00 hs | **15,02** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



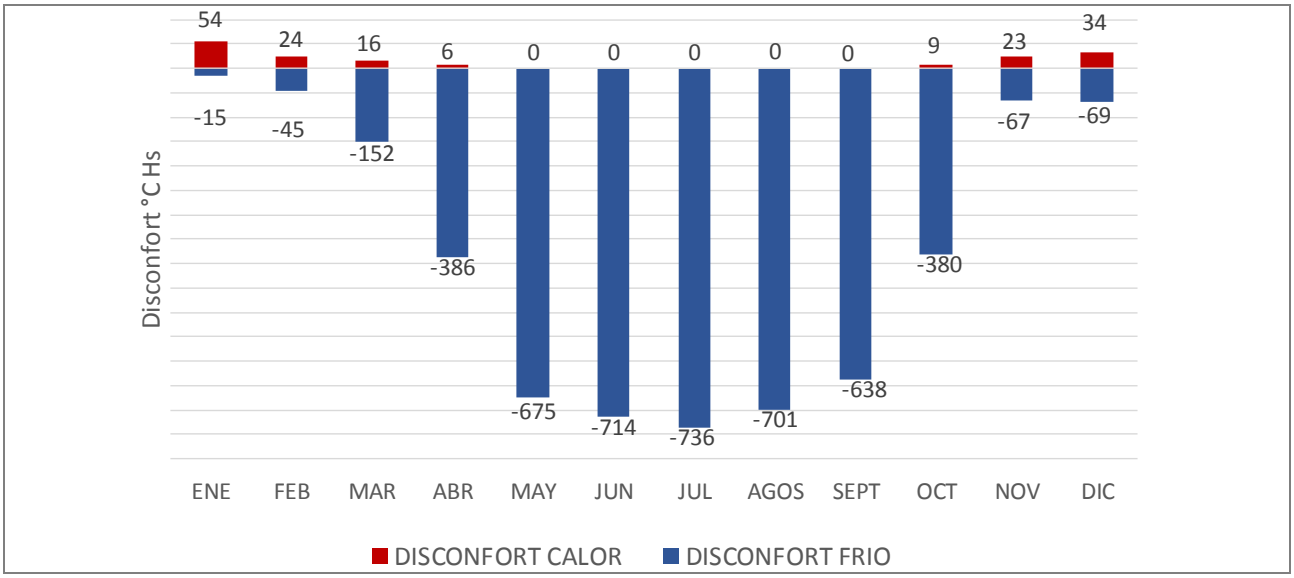




5,43 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,68

| STL-067 | MU | STEEL FRAME |
|---|---|---|

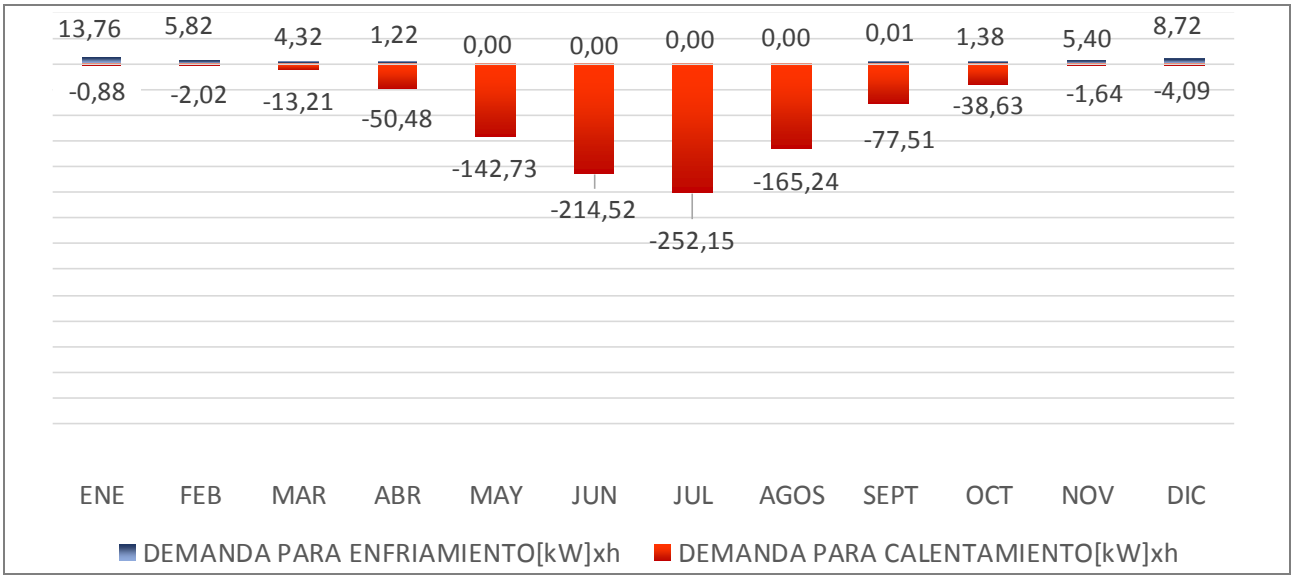
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **166** | °C Hs | 2% |
| HORAS DE DISCONFORT POR FRÍO | **4.578** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.744** | **°C Hs** | **54%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

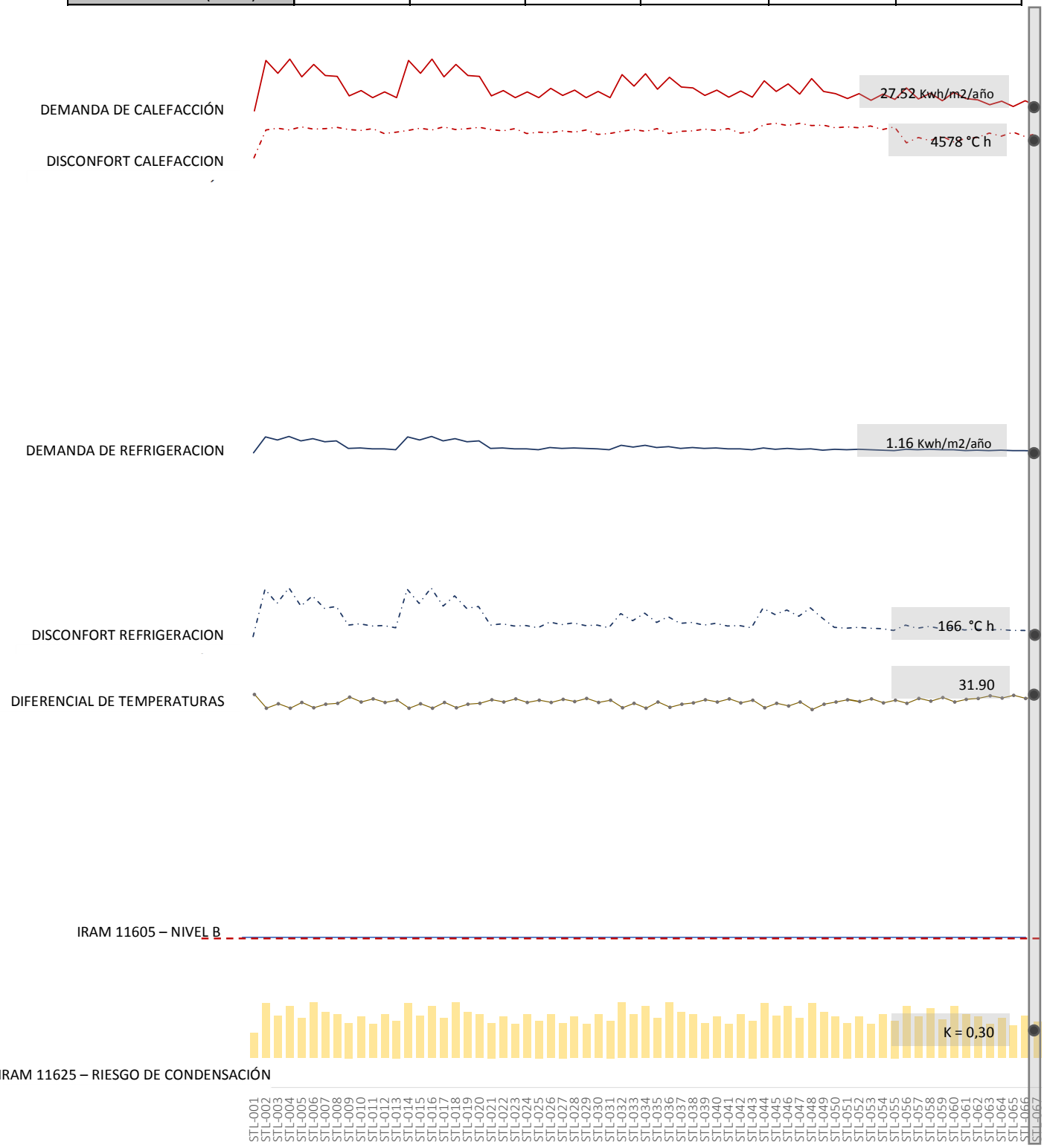



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **40,63** | kWh | 1,16 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **963,11** | kWh | 27,52 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.003,74** | kWh | **28,68** | kWh/m2/año |

| STL-067 | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-198) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 019 | N° 012 | N° 006 | N° 050 | N° 132 | N° 038 |



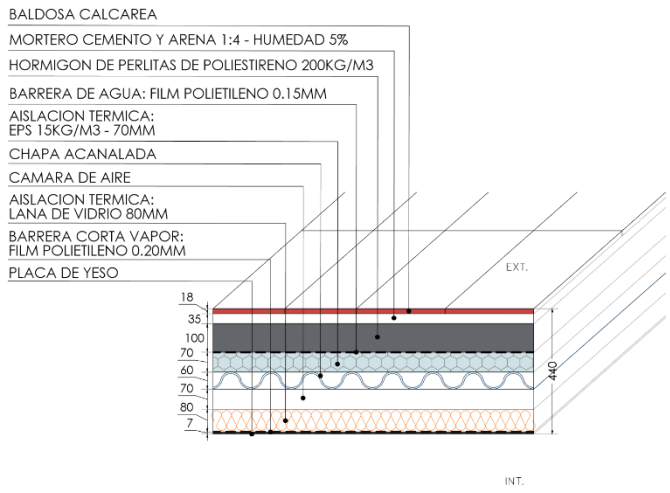

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1,19 | 28% | 30,81 | 41,13 | 6,00 | 4462 | 511 |
| FAMILIA | 0,35 | 0% | 31,32 | 31,86 | 2,50 | 4594 | 281 |
| INDIVIDUAL | 0,3 | 0% | 31,9 | 27,52 | 1,16 | 4578 | 166 |
| INC. FAMILIA | 84,95% | 0% | 101,86% | 86,37% | 46,33% | 99,65% | 58,97% |
| INC. MUNDIAL | 25,22% | 0% | 103,53% | 66,92% | 19,33% | 102,61% | 32,48% |

| STL-068 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON ENCOFRADO PERDIDO DE CHAPA METALICA SINUSOIDAL, CON TERMINACION EXTERIOR EN BALDOSA CALCAREA CON HORMIGON DE PENDIENTE Y CARPETA NIVELADORA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

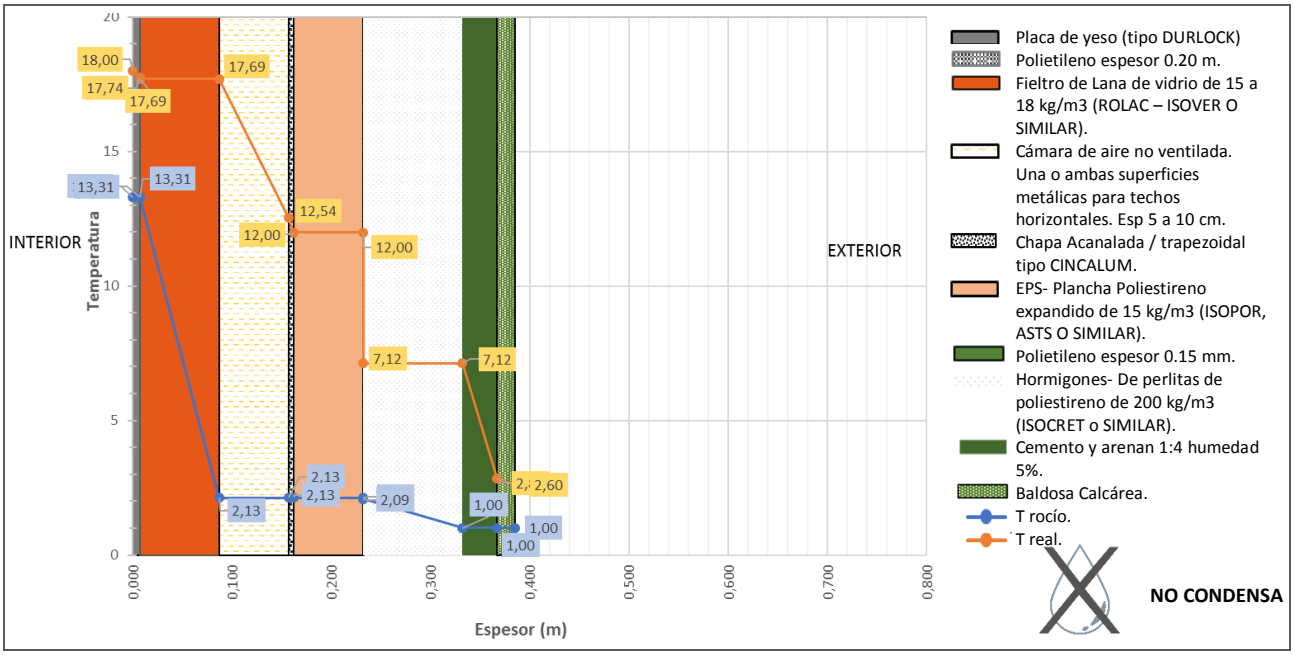
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,17 | 0,17 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



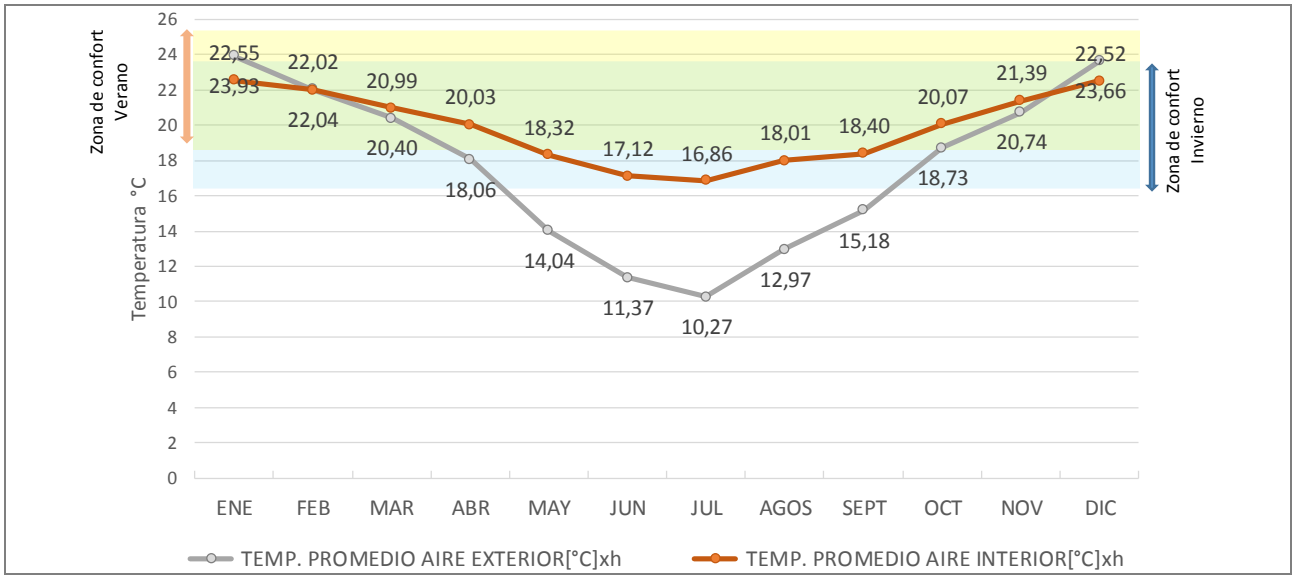

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 5,8 | 4,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **19,4** | **17,3** |
| | **Amortiguamiento:** | 0,001 | 0,002 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **17,8** | **7,5** |
| | **Amortiguamiento:** | 0,009 | 0,140 |

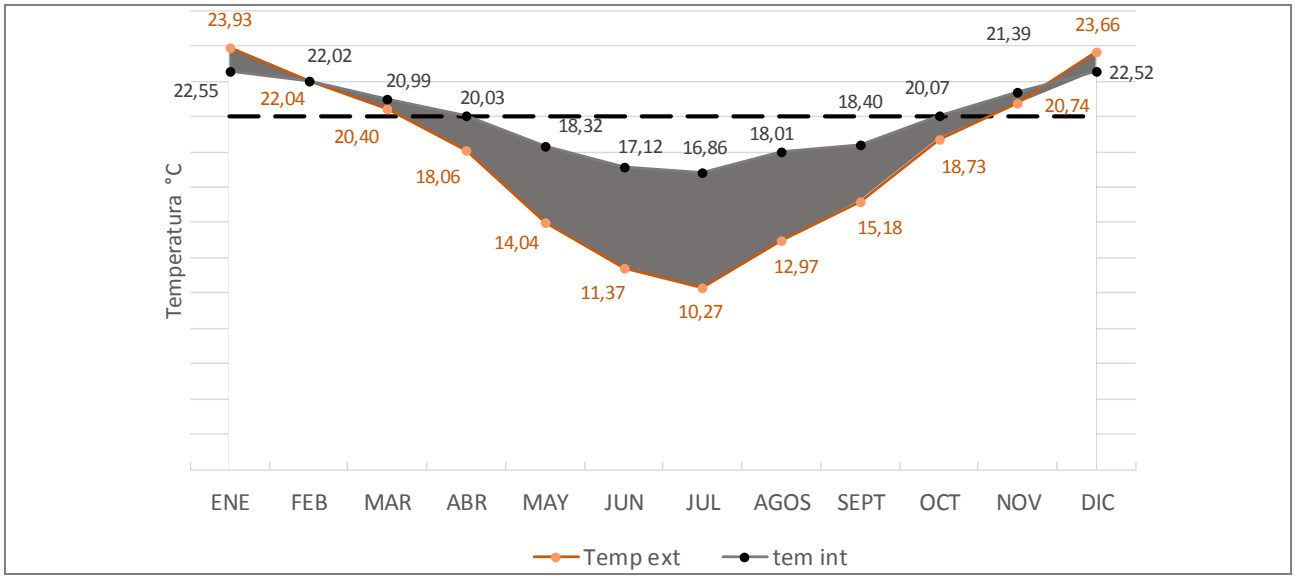
| STL-068 | CU | STEEL FRAME |
|---|---|---|

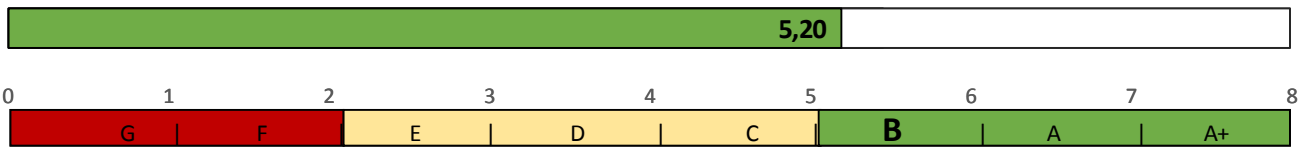
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,87** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,41** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



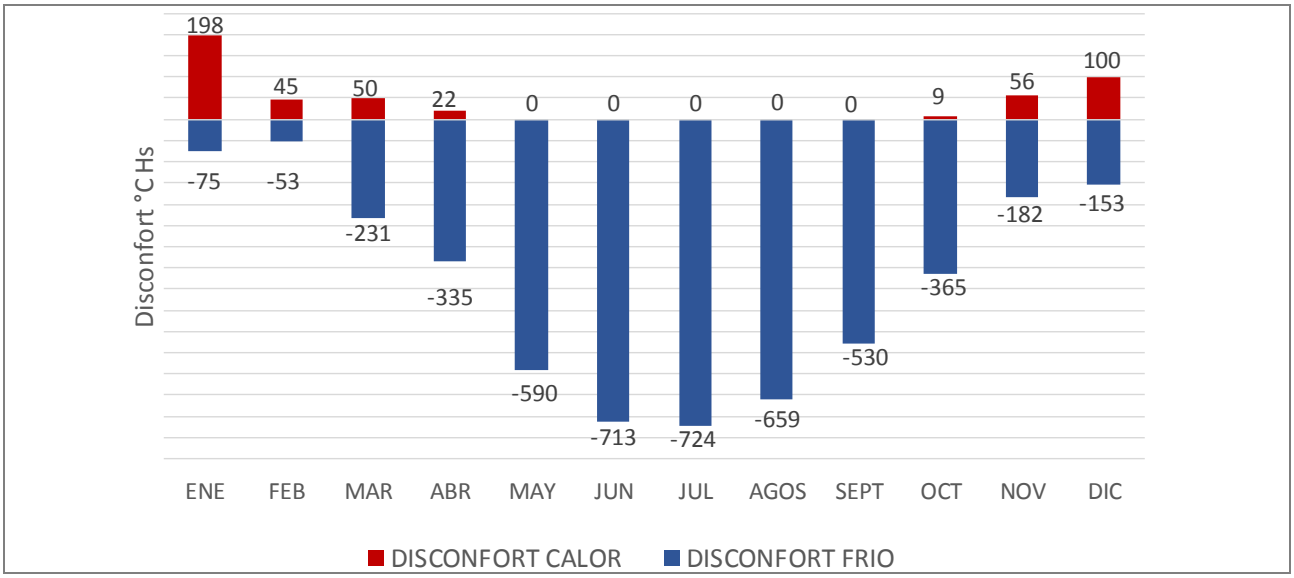




5,20 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| STL-068 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

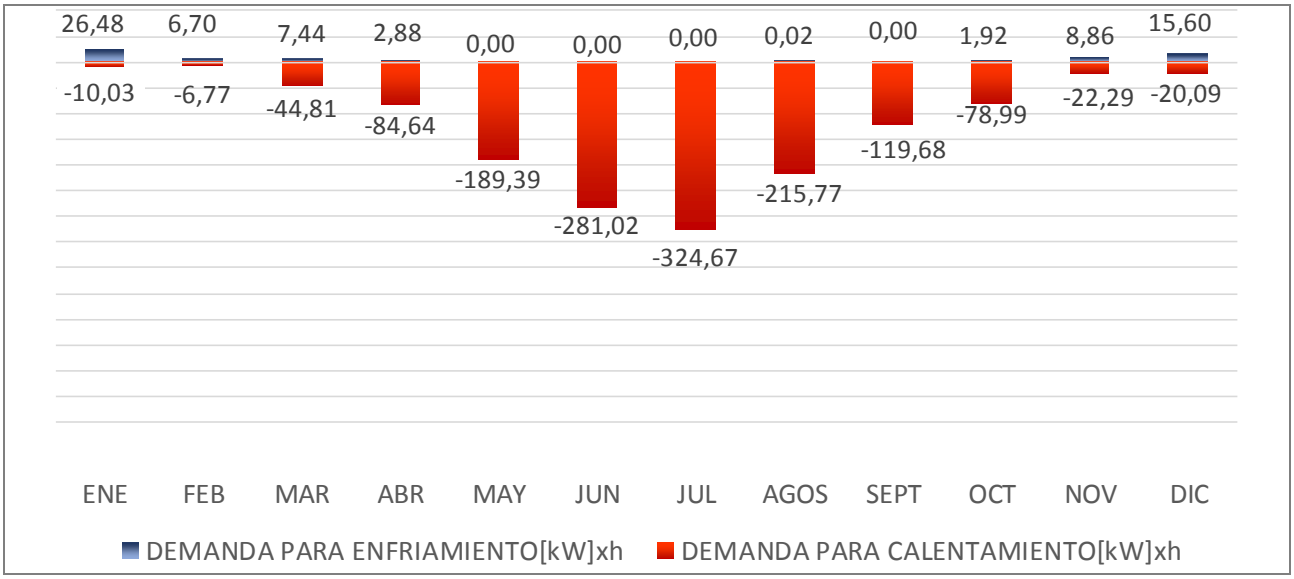
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **480** | °C Hs | 5% |
| HORAS DE DISCONFORT POR FRÍO | **4.609** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.089** | **°C Hs** | **58%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

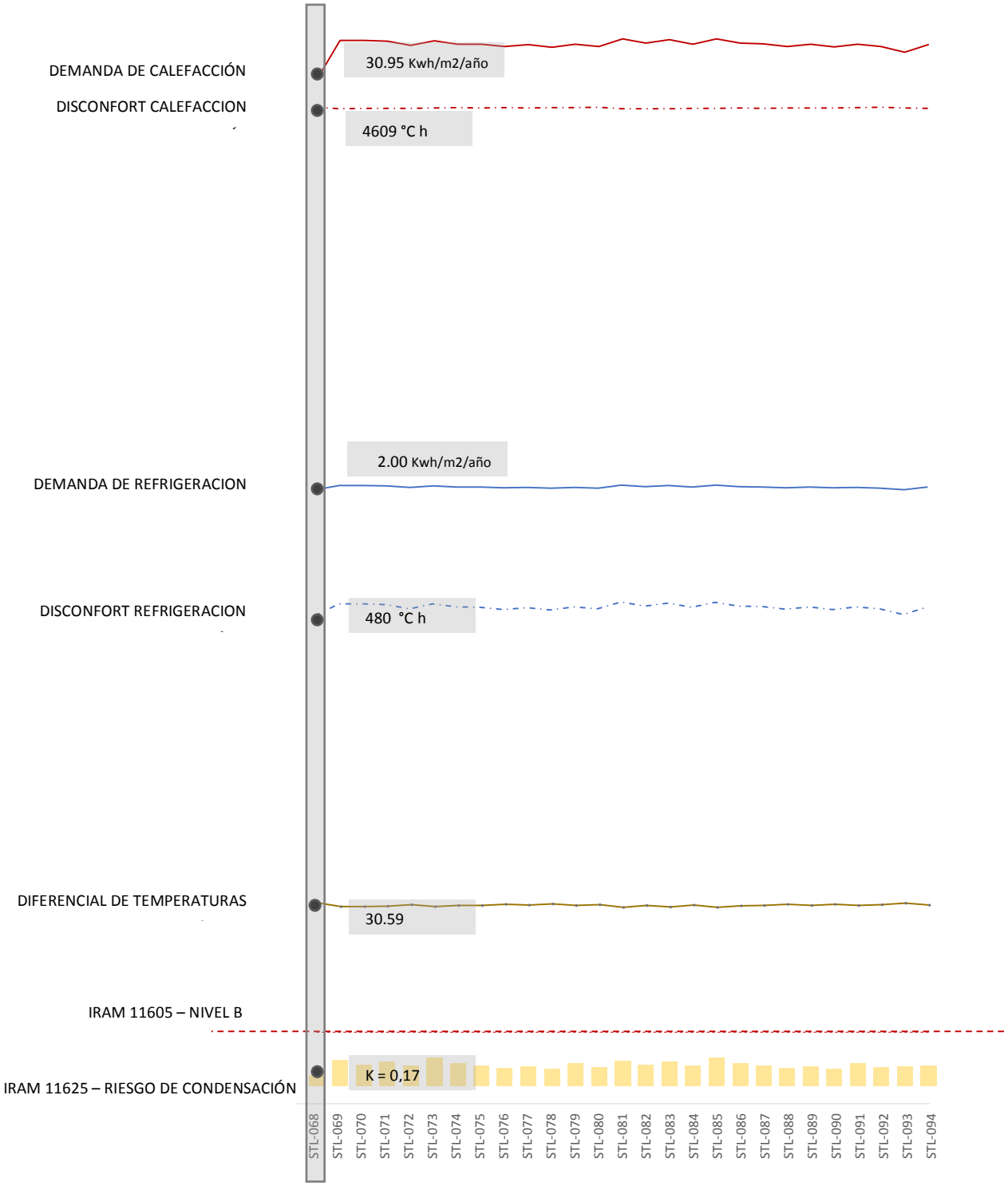



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **69,90** | kWh | 2,00 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.398,17** | kWh | 39,95 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.468,07** | kWh | **41,94** | kWh/m2/año |

| STL-068 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 001 | N° 003 | N° 002 | N° 043 | N° 111 | N° 037 |



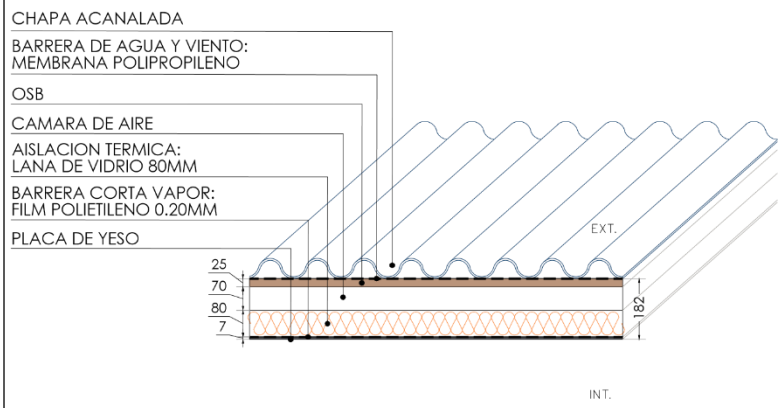

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,17 | 0% | 30,59 | 30,95 | 2 | 4609 | 480 |
| INC. FAMILIA | 52,40% | 0% | 101,33% | 72,73% | 67,84% | 100,18% | 80,71% |
| INC. MUNDIAL | 20,99% | 0% | 103,00% | 69,58% | 48,62% | 101,05% | 75,99% |

| STL-069 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 80MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

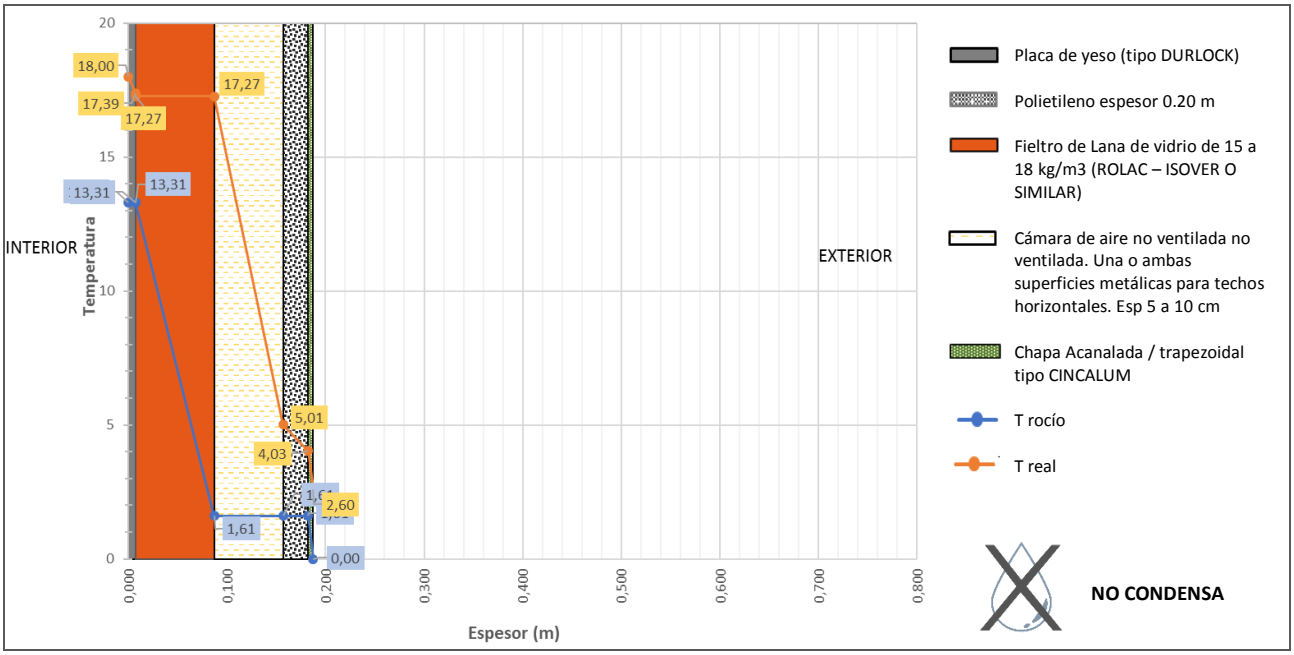
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,39 | 0,40 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



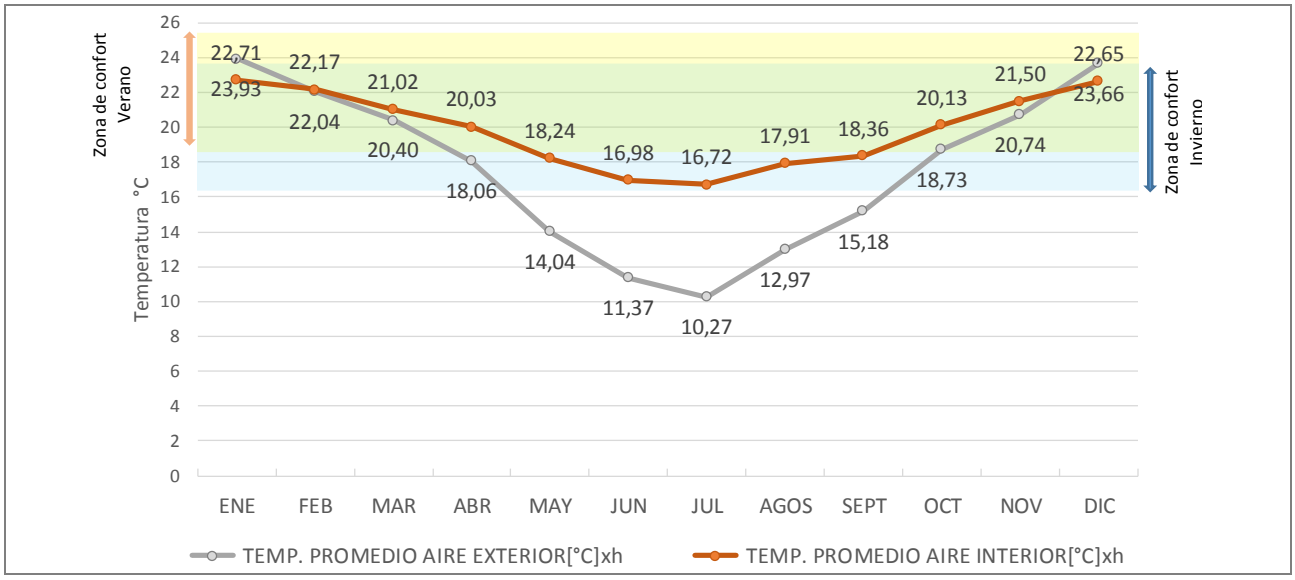

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,5 | 3,4 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,9** | **6,1** |
| | **Amortiguamiento:** | 0,077 | 0,106 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,8** | **3,0** |
| | **Amortiguamiento:** | 0,169 | 0,457 |

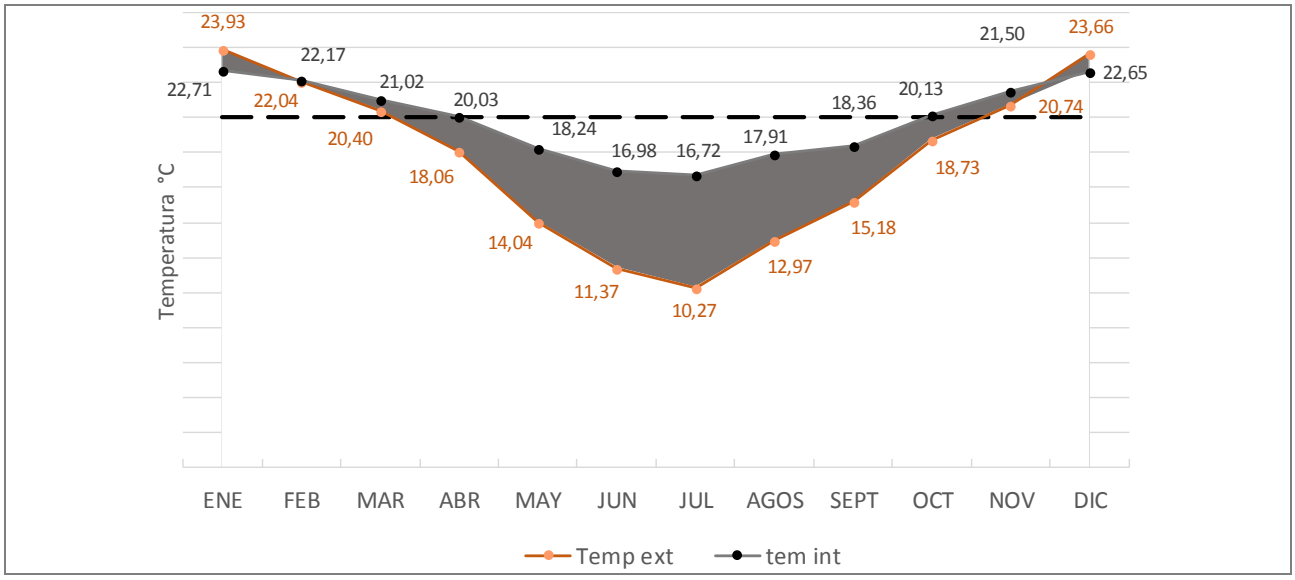
| STL-069 | CU | STEEL FRAME |
|---|---|---|

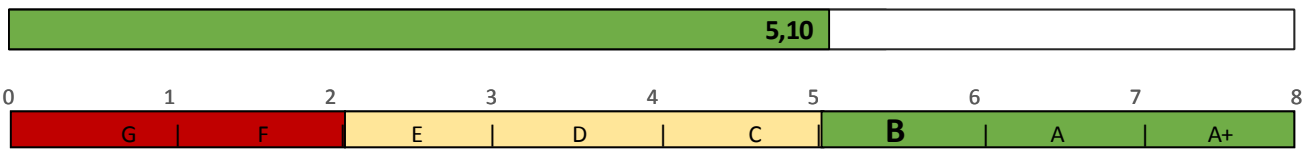
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,61** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,87** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



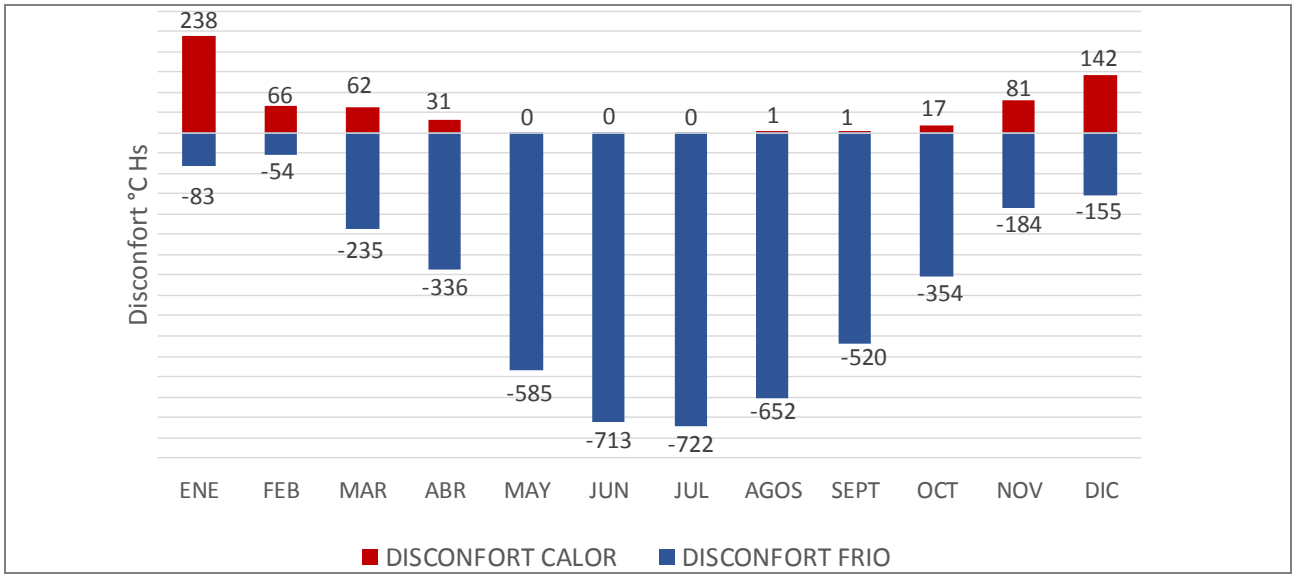




5,10 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-069 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

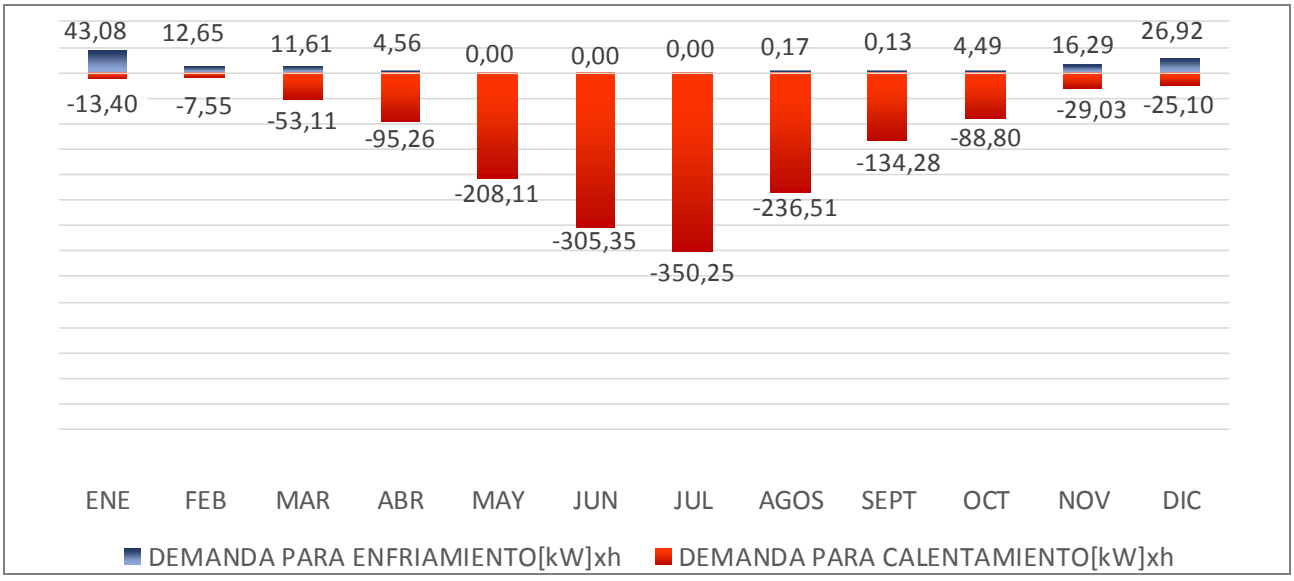
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **639** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.593** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.232** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

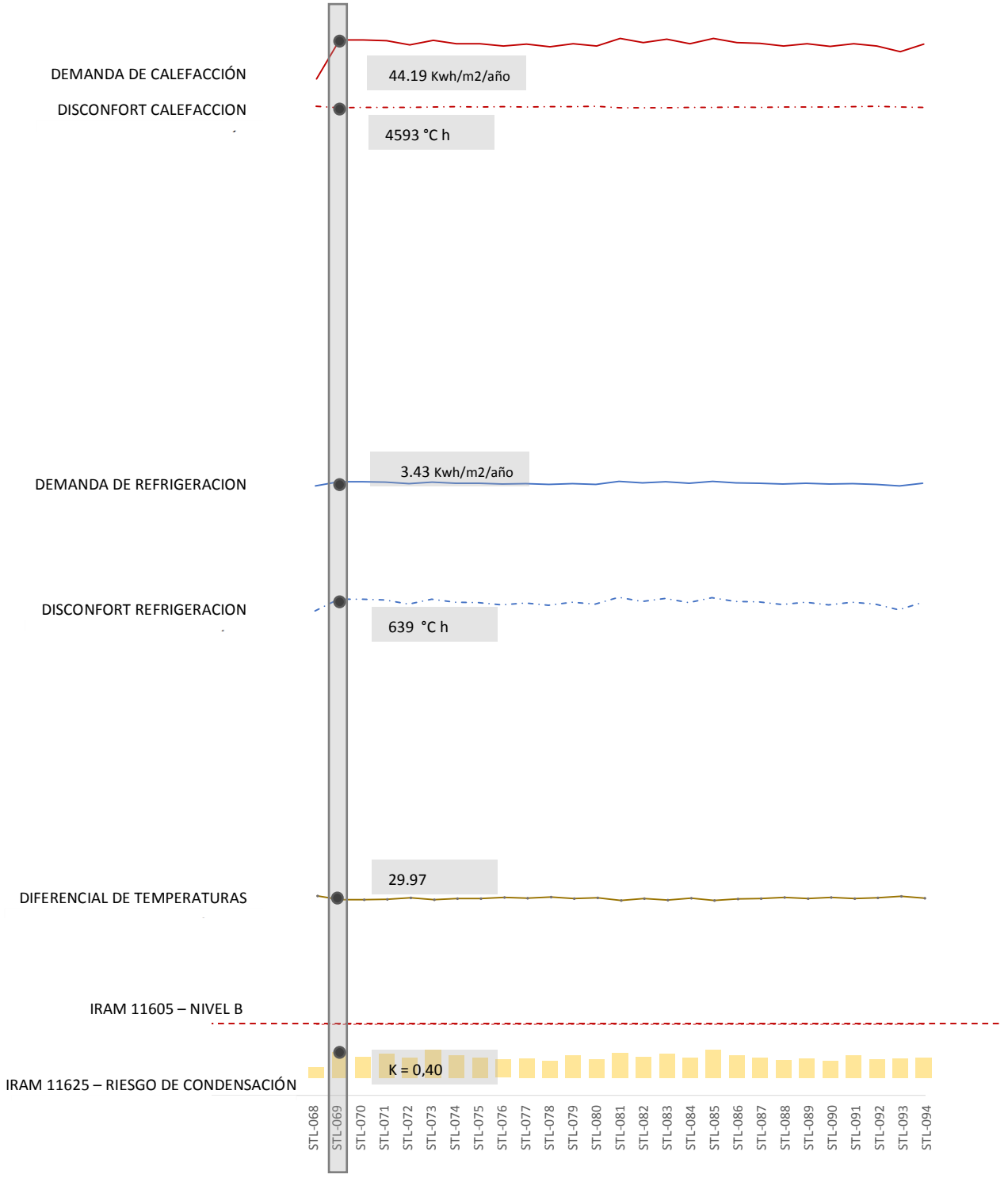



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **119,89** | kWh | 3,43 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.546,75** | kWh | 44,19 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.666,64** | kWh | **47,62** | kWh/m2/año |

| STL-069 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 044 | N° 044 | N° 082 | N° 095 | N° 085 | N° 085 |



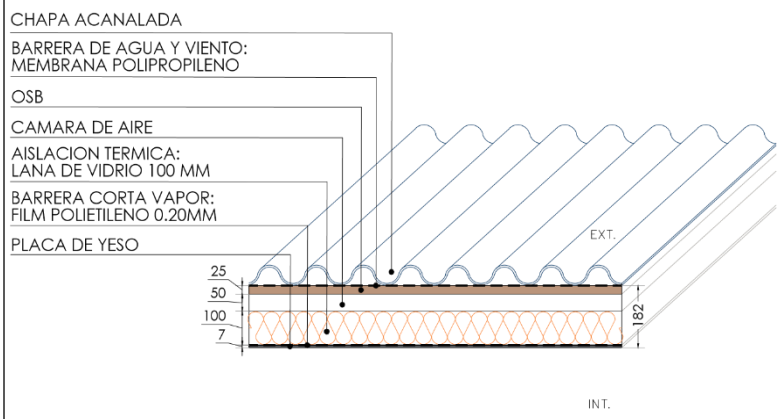

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,4 | 0% | 29,97 | 44,19 | 3,43 | 4593 | 639 |
| INC. FAMILIA | 123,29% | 0% | 99,28% | 103,85% | 116,34% | 99,83% | 107,44% |
| INC. MUNDIAL | 49,38% | 0% | 100,91% | 99,35% | 83,39% | 100,70% | 101,16% |

| STL-070 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

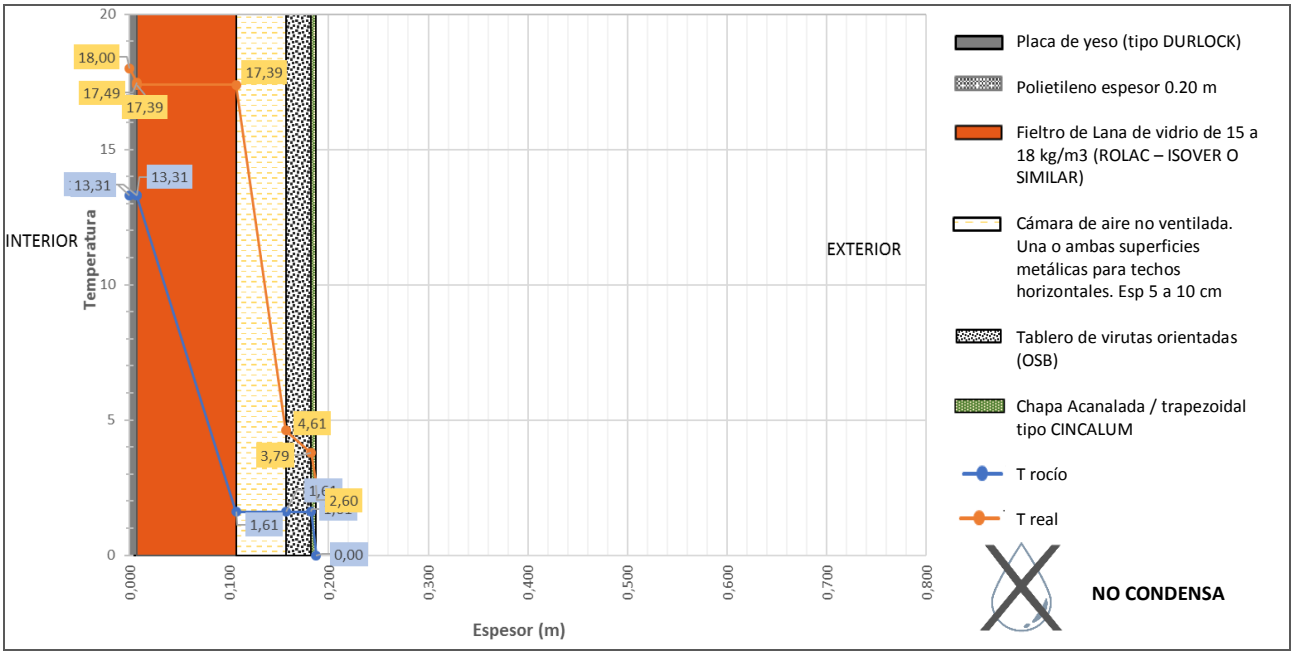
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,32 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



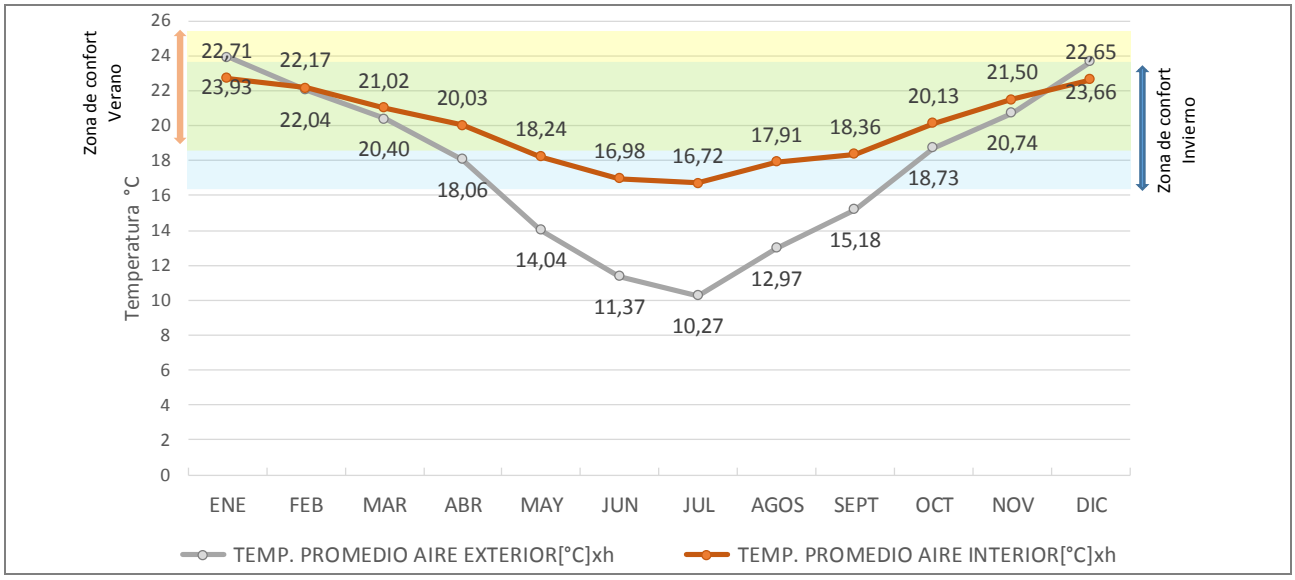

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,7 | 2,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,6** | **6,7** |
| | **Amortiguamiento:** | 0,059 | 0,084 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,4** | **3,2** |
| | **Amortiguamiento:** | 0,142 | 0,429 |

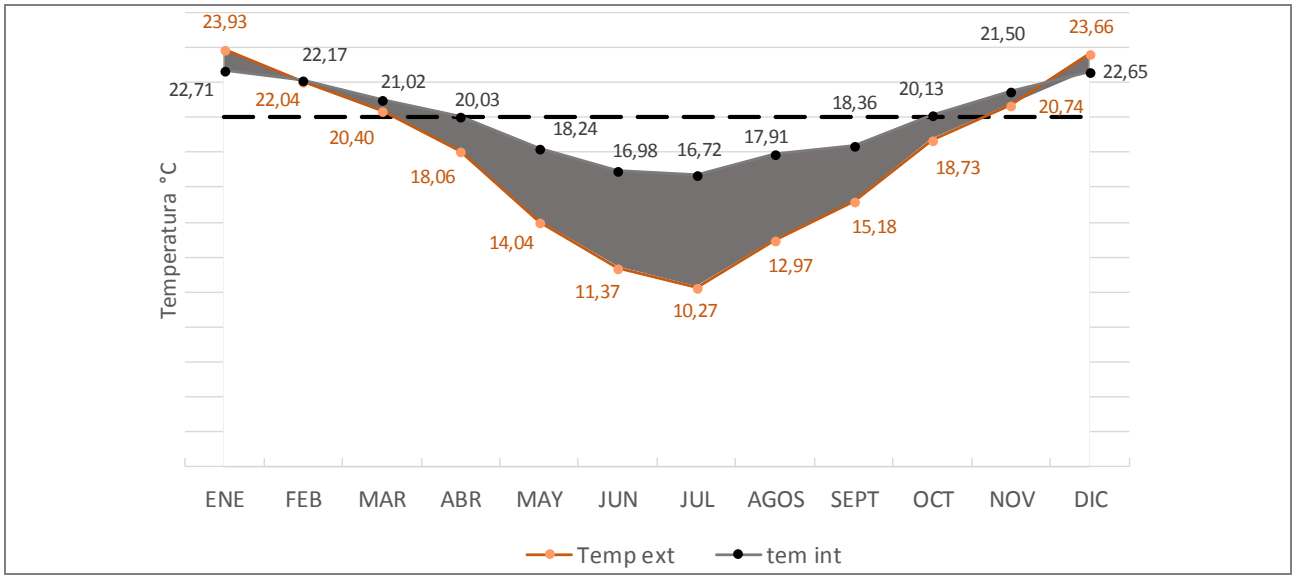
| STL-070 | CU | STEEL FRAME |
|---|---|---|

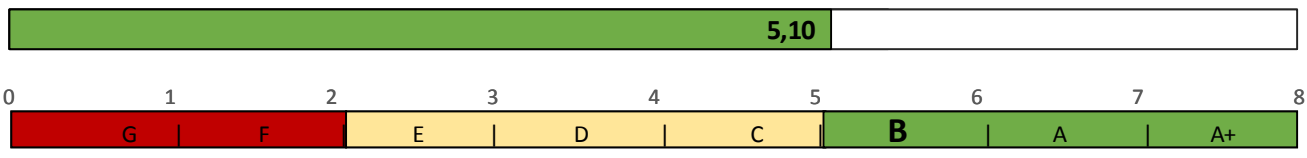
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,61** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,88** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



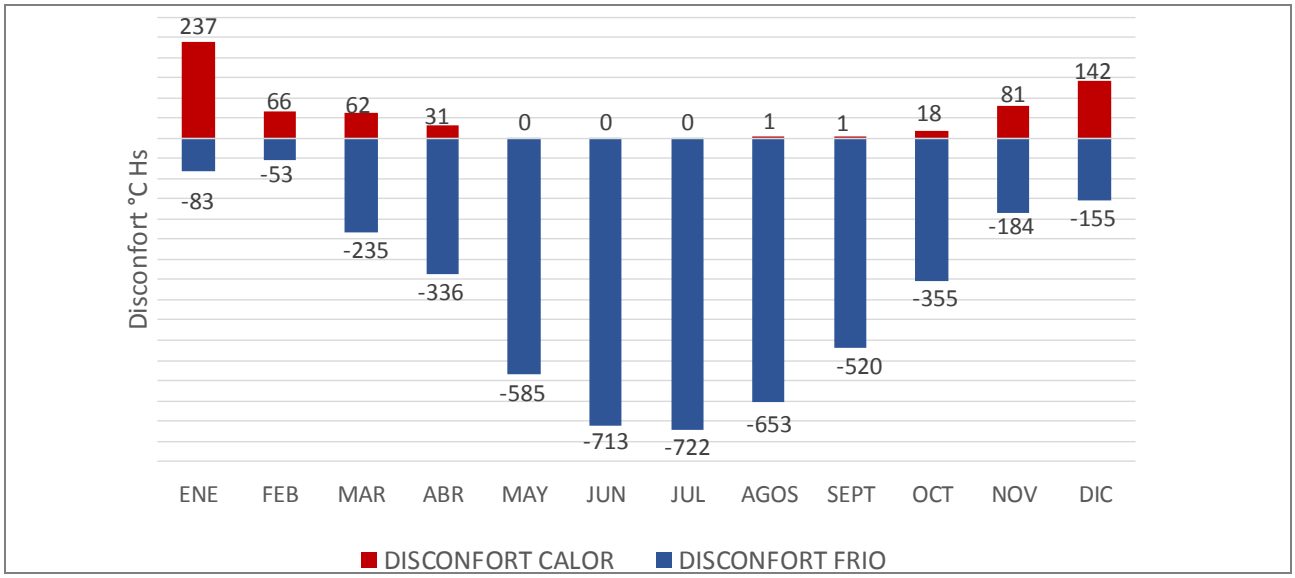




5,10 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-070 | CU | STEEL FRAME |
|---|---|---|

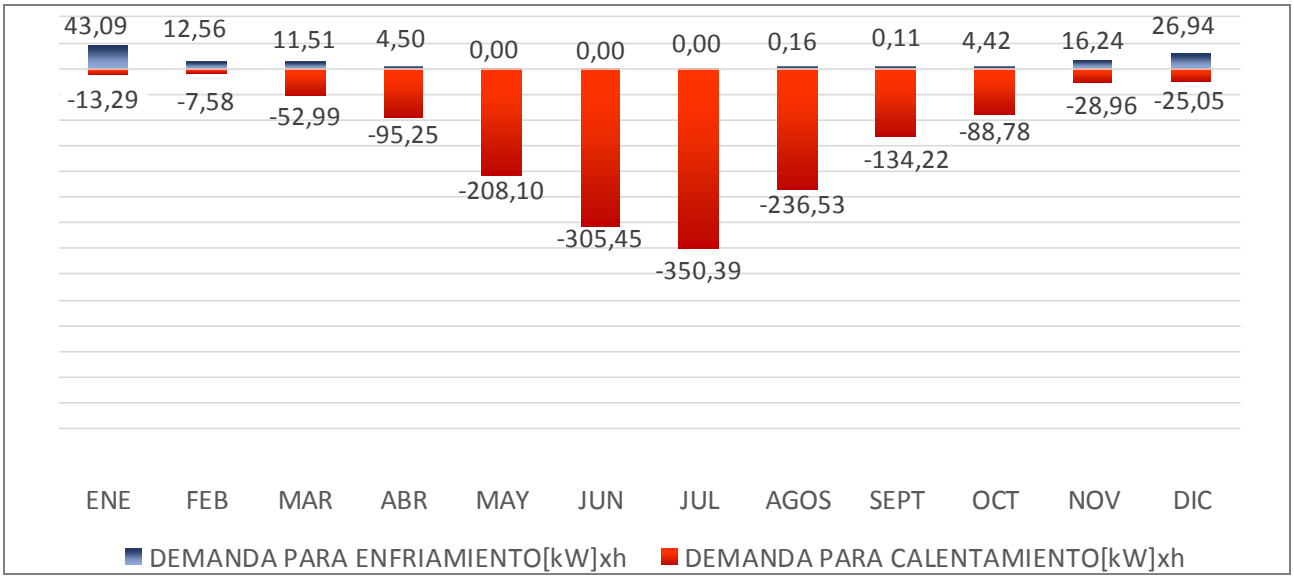
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **638** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.595** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.233** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

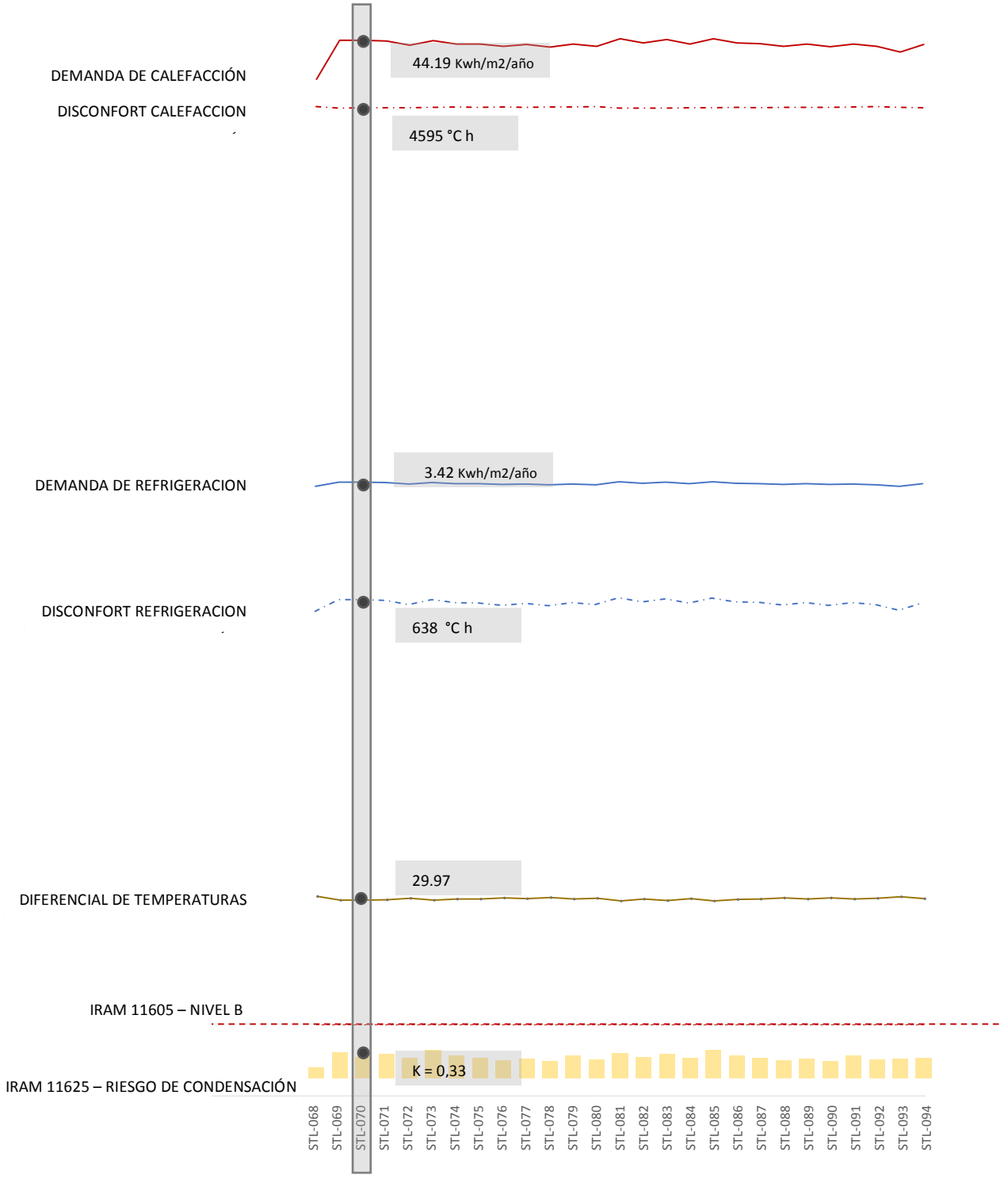



| | CANT | | | IPE |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **119,54** | kWh | 3,42 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.546,60** | kWh | 44,19 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.666,14** | kWh | **47,60** | kWh/m2/año |

| STL-070 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 027 | N° 045 | N° 083 | N° 093 | N° 088 | N° 082 |



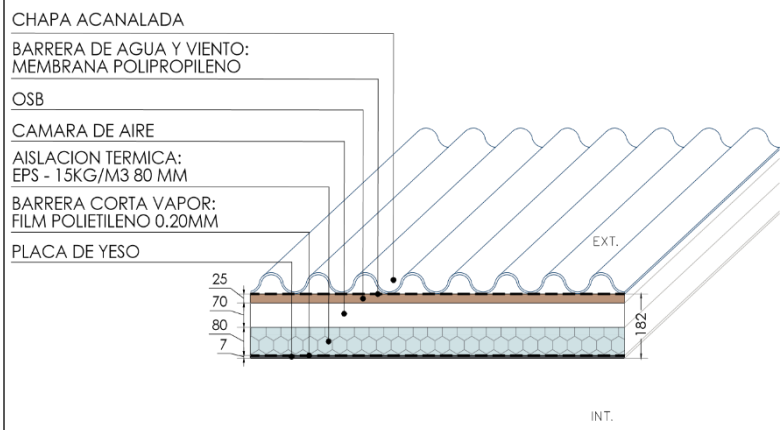

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,33 | 0% | 29,97 | 44,19 | 3,42 | 4595 | 638 |
| INC. FAMILIA | 101,71% | 0% | 99,28% | 103,85% | 116,01% | 99,87% | 107,27% |
| INC. MUNDIAL | 40,74% | 0% | 100,91% | 99,35% | 83,15% | 100,75% | 101,00% |

| STL-071 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 80MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

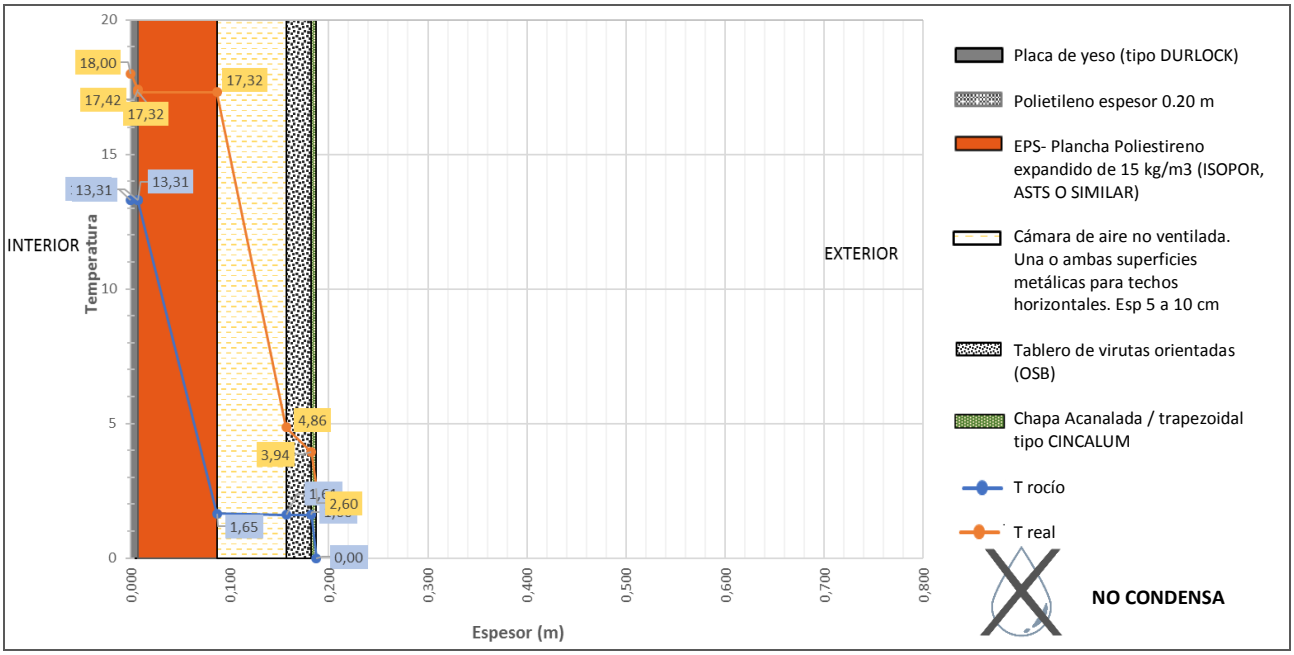
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,37 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



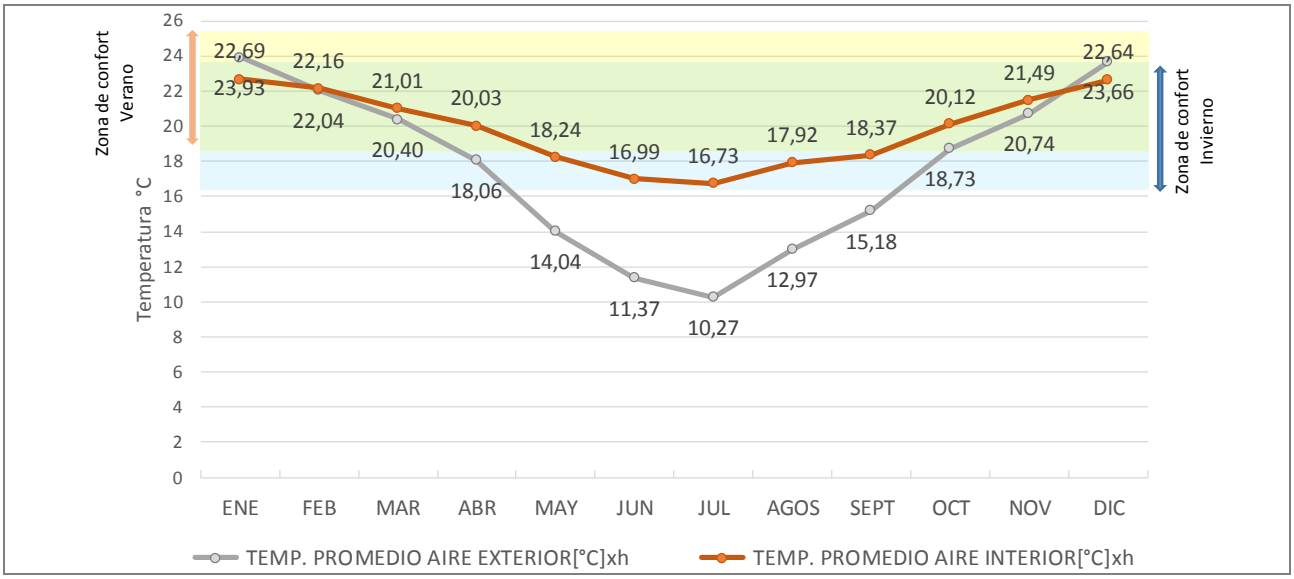

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,2 | 3,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,2** | **6,3** |
| | **Amortiguamiento:** | 0,071 | 0,098 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,0** | **3,1** |
| | **Amortiguamiento:** | 0,159 | 0,448 |

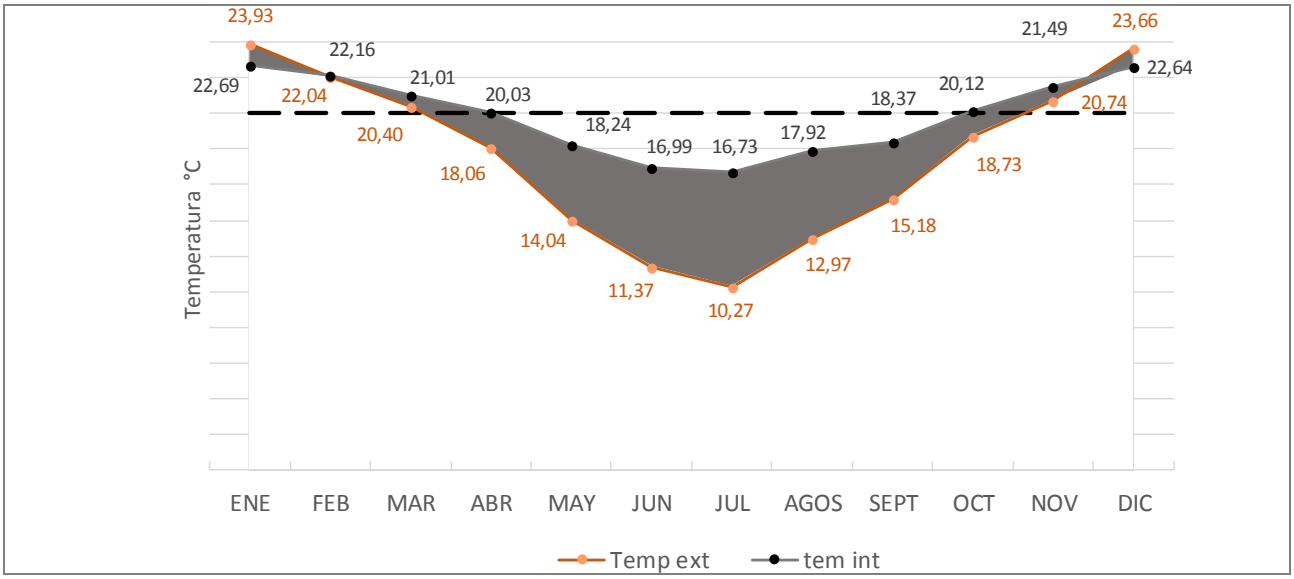
| STL-071 | CU | STEEL FRAME |
|---|---|---|

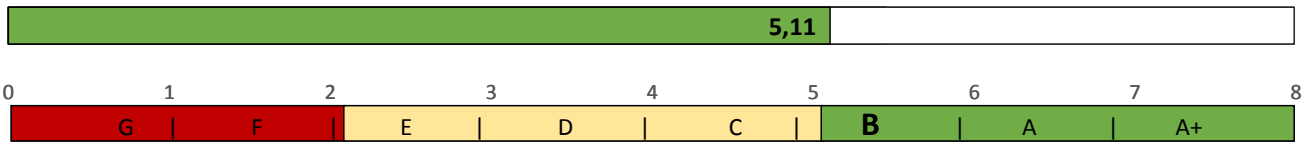
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,56** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,91** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



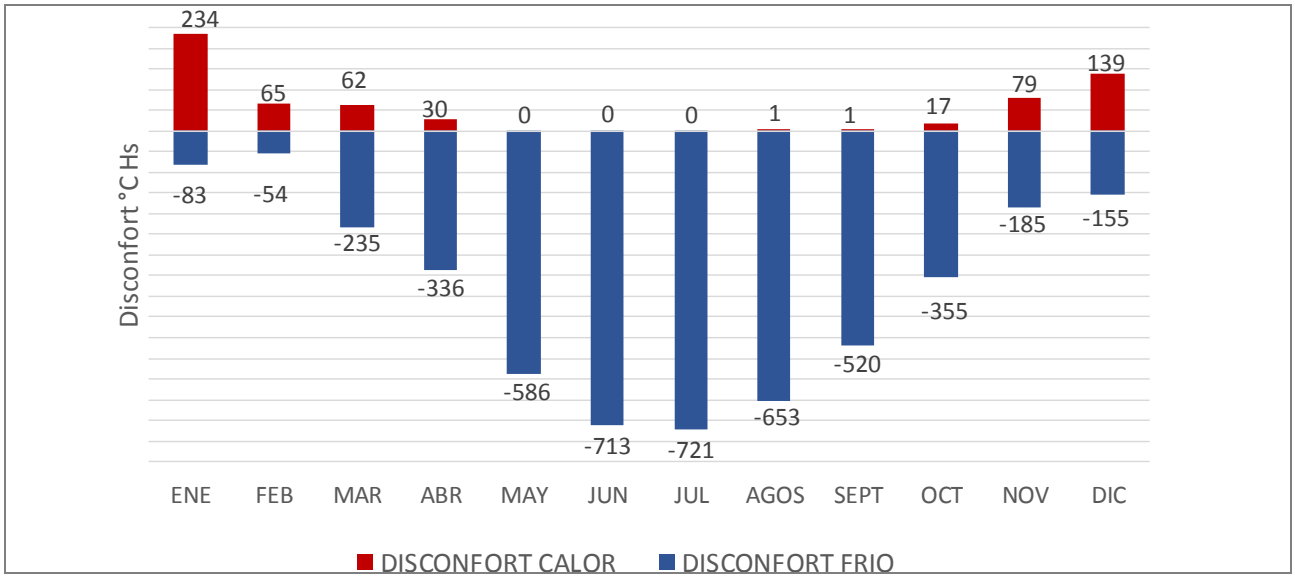




5,11 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-071 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

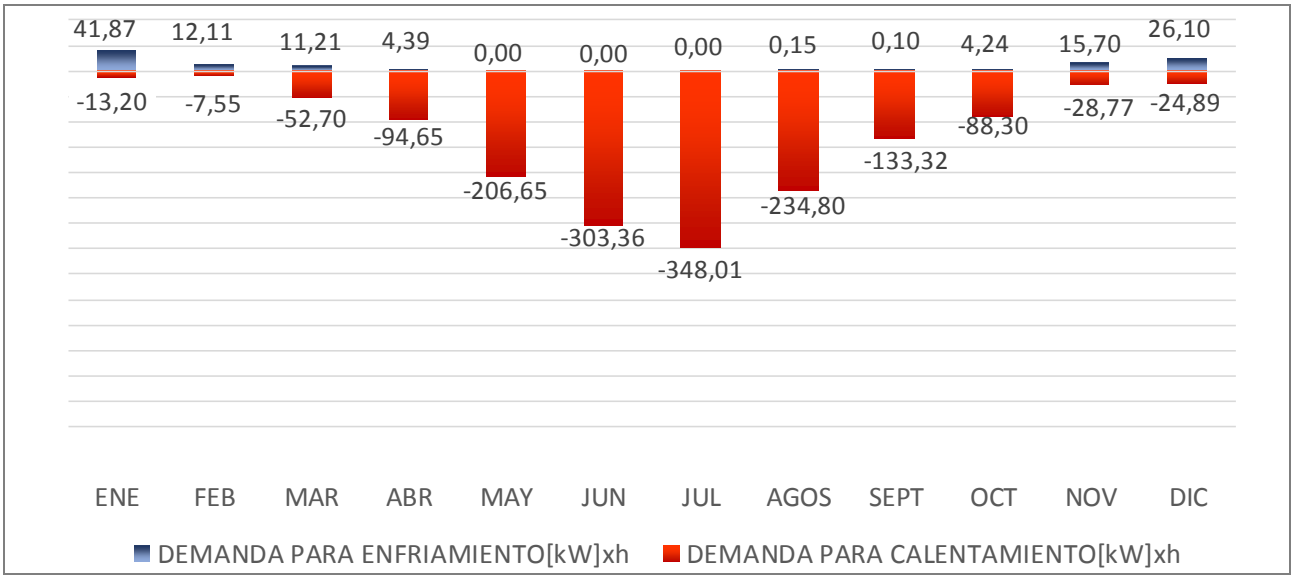
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **628** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.595** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.223** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

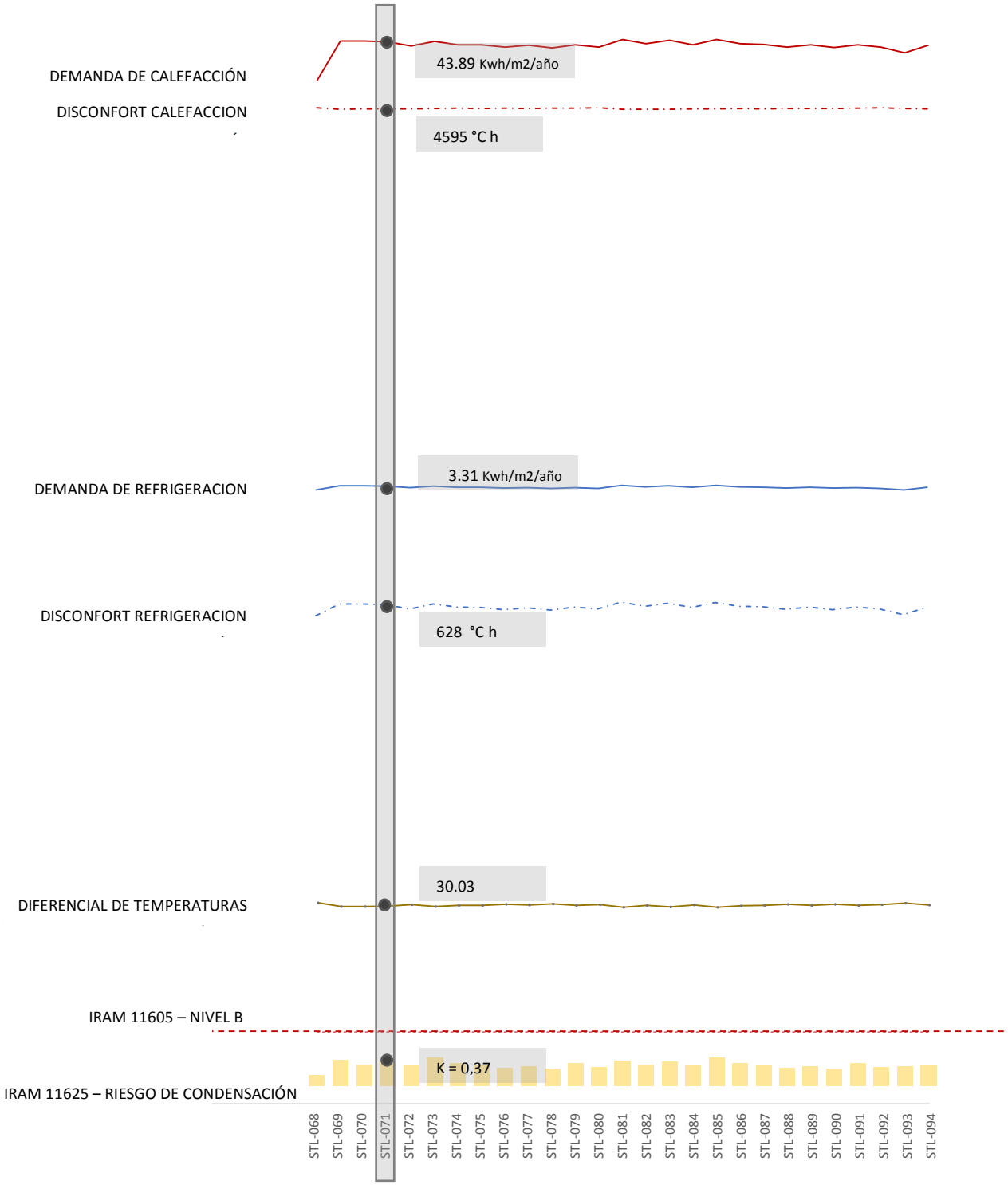



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **115,87** | kWh | 3,31 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.536,19** | kWh | 43,89 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.652,06** | kWh | **47,20** | kWh/m2/año |

| STL-071 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 037 | N° 039 | N° 078 | N° 089 | N° 089 | N° 078 |



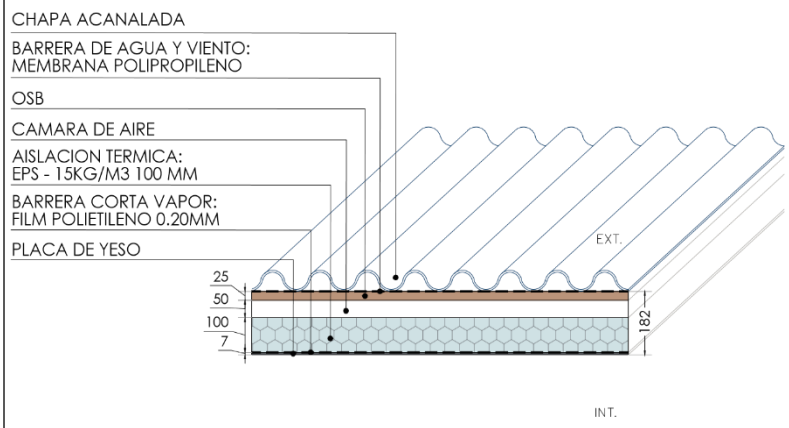

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,37 | 0% | 30,03 | 43,89 | 3,31 | 4595 | 628 |
| INC. FAMILIA | 114,04% | 0% | 99,47% | 103,14% | 112,27% | 99,87% | 105,59% |
| INC. MUNDIAL | 45,68% | 0% | 101,11% | 98,68% | 80,47% | 100,75% | 99,42% |

| STL-072 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

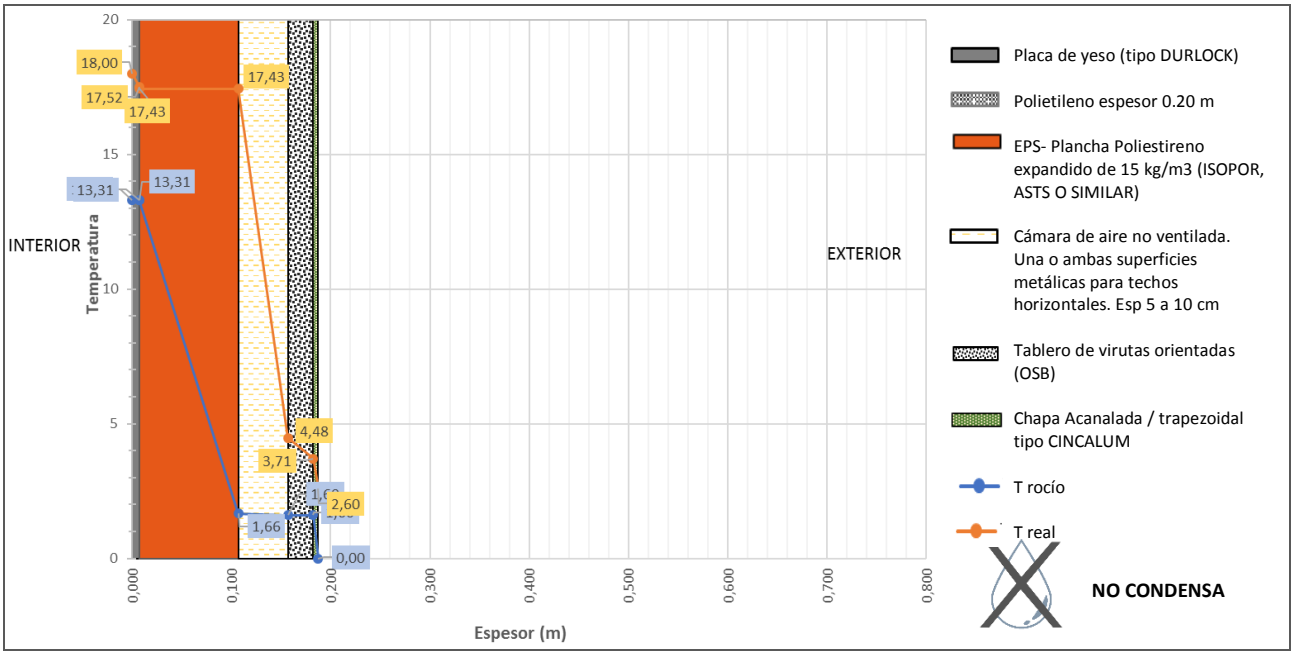
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,30 | 0,31 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



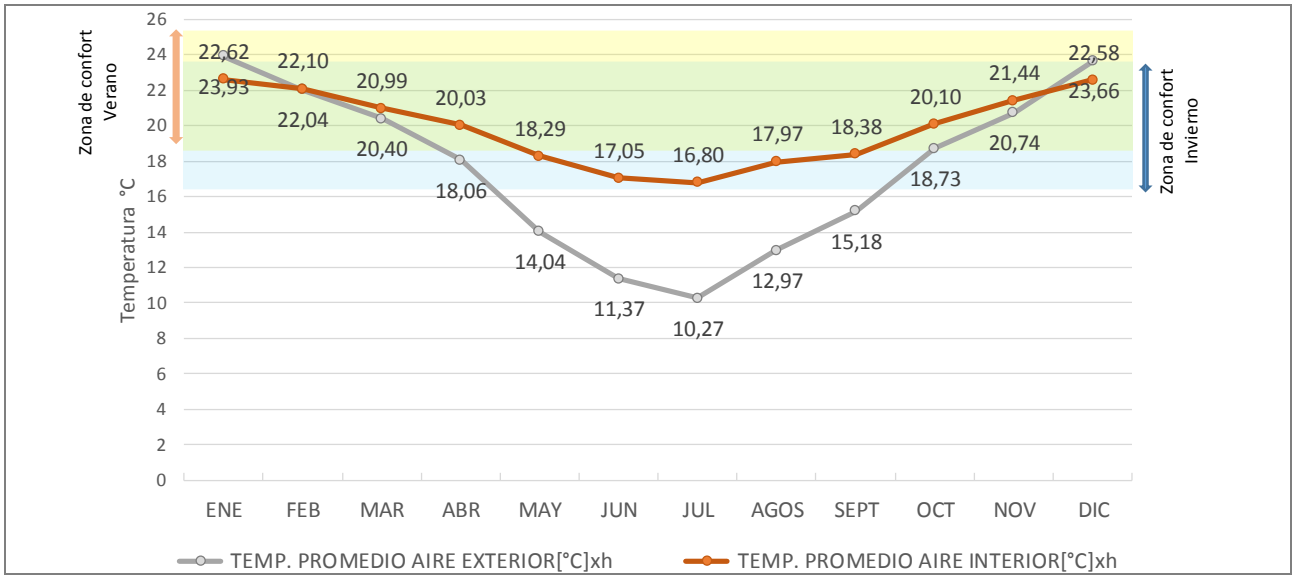

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,4 | 2,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,9** | **6,9** |
| | **Amortiguamiento:** | 0,054 | 0,077 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,7** | **3,3** |
| | **Amortiguamiento:** | 0,134 | 0,419 |

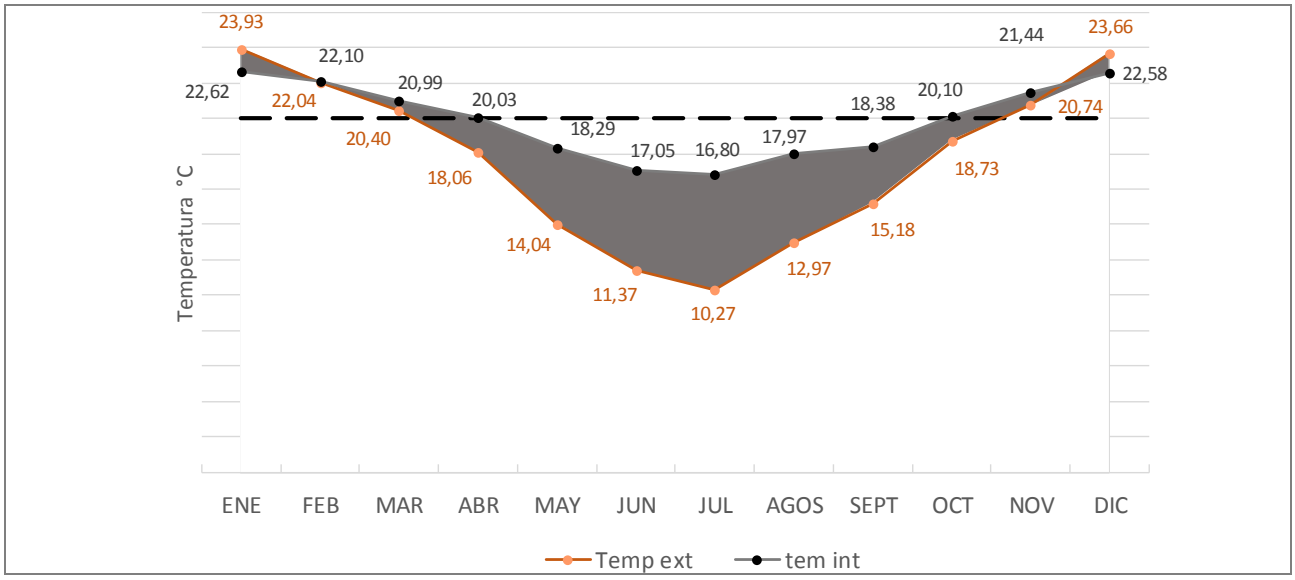
| STL-072 | CU | STEEL FRAME |
|---|---|---|

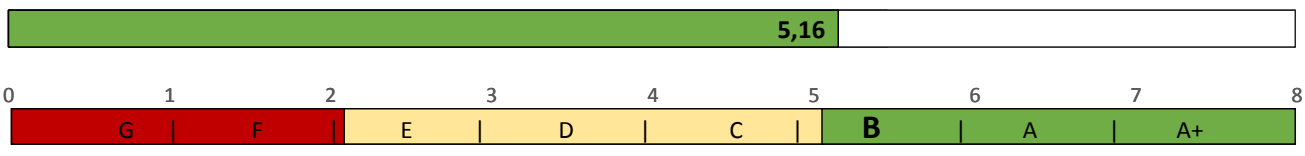
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,36** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,08** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



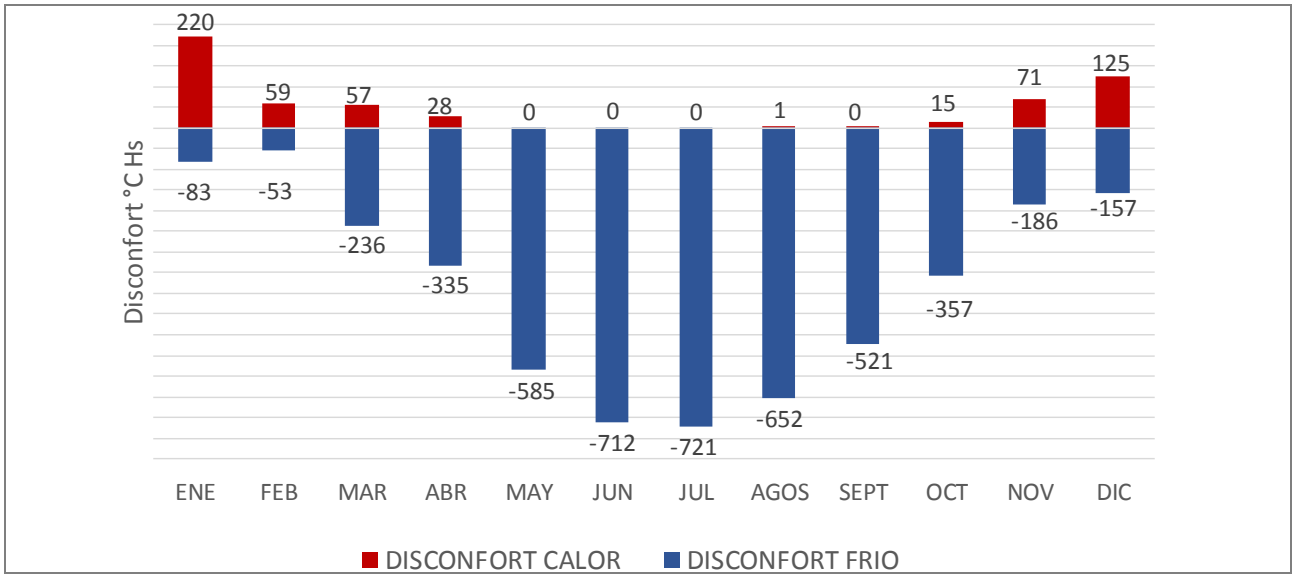




5,16 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-072 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

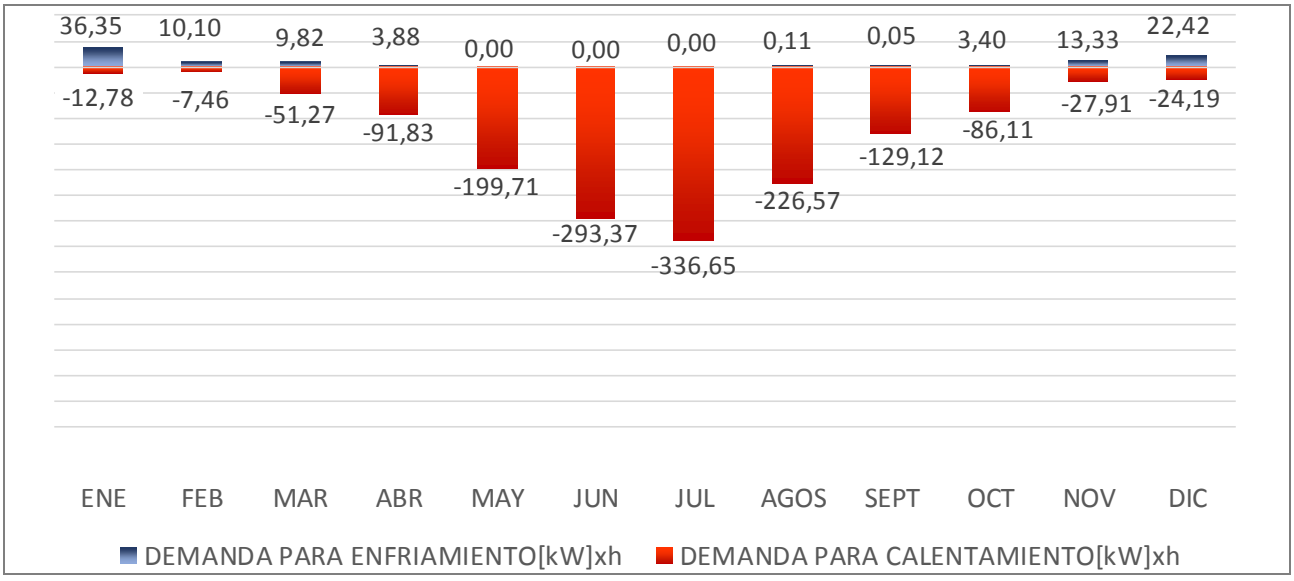
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **576** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.599** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.176** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

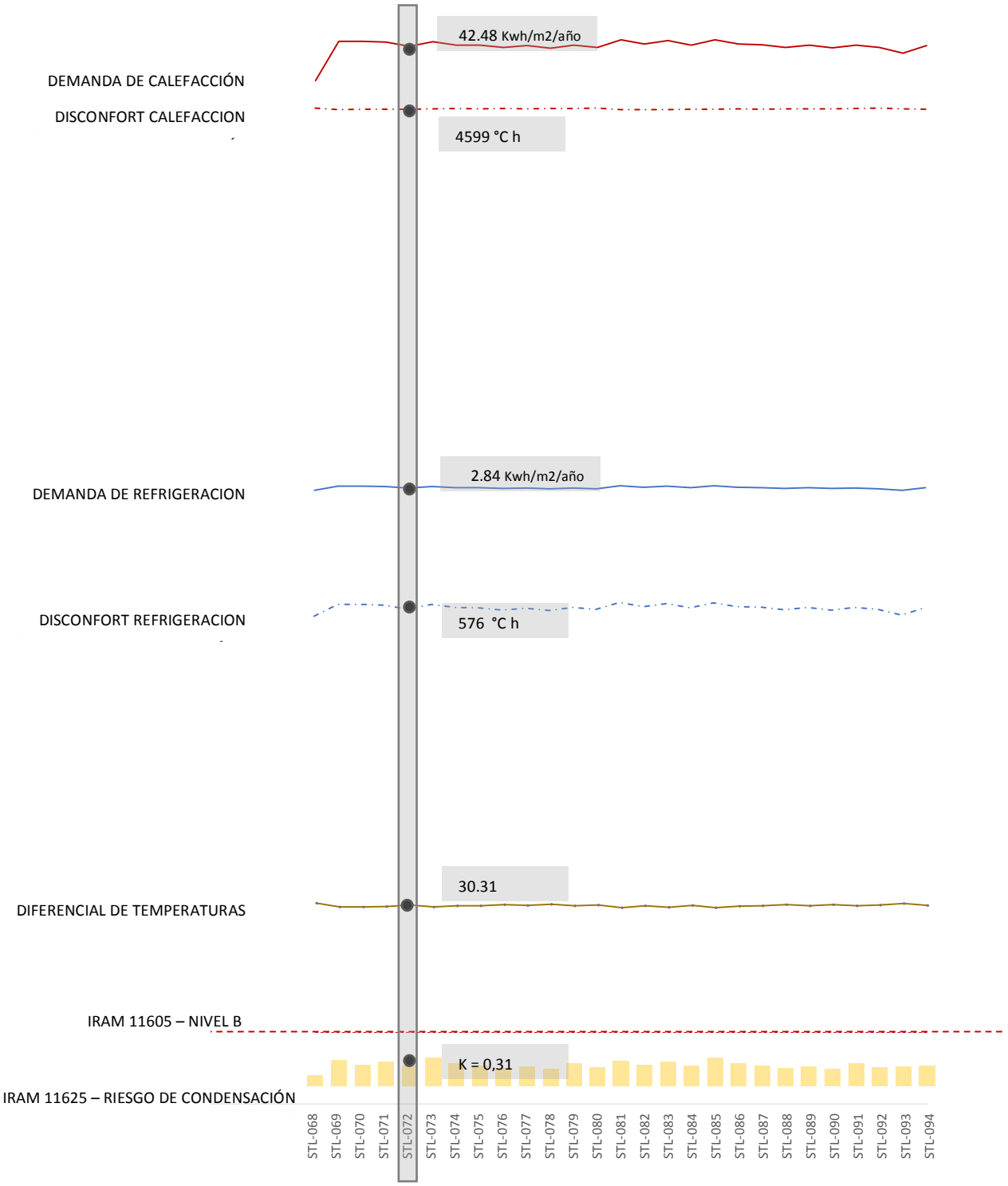



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **99,47** | kWh | 2,84 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.486,97** | kWh | 42,48 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.586,43** | kWh | **45,33** | kWh/m2/año |

| STL-072 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 018 | N° 012 | N° 055 | N° 067 | N° 094 | N° 059 |



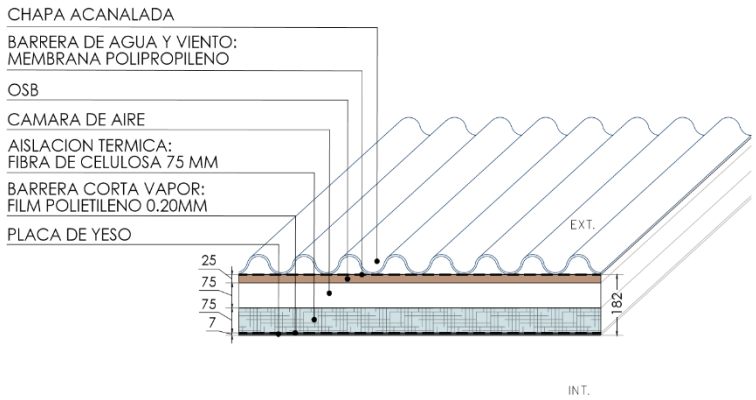

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,31 | 0% | 30,31 | 42,48 | 2,84 | 4599 | 576 |
| INC. FAMILIA | 95,55% | 0% | 100,40% | 99,83% | 96,33% | 99,96% | 96,85% |
| INC. MUNDIAL | 38,27% | 0% | 102,06% | 95,51% | 69,04% | 100,83% | 91,19% |

| STL-073 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

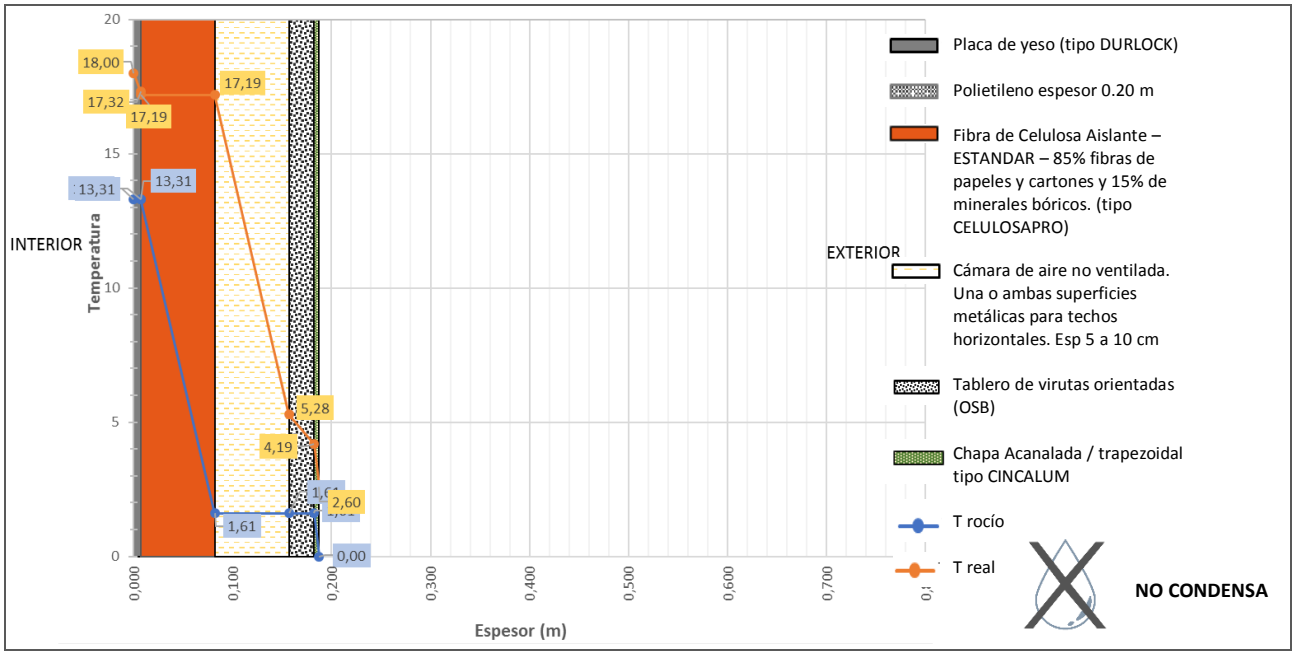
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,43 | 0,44 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



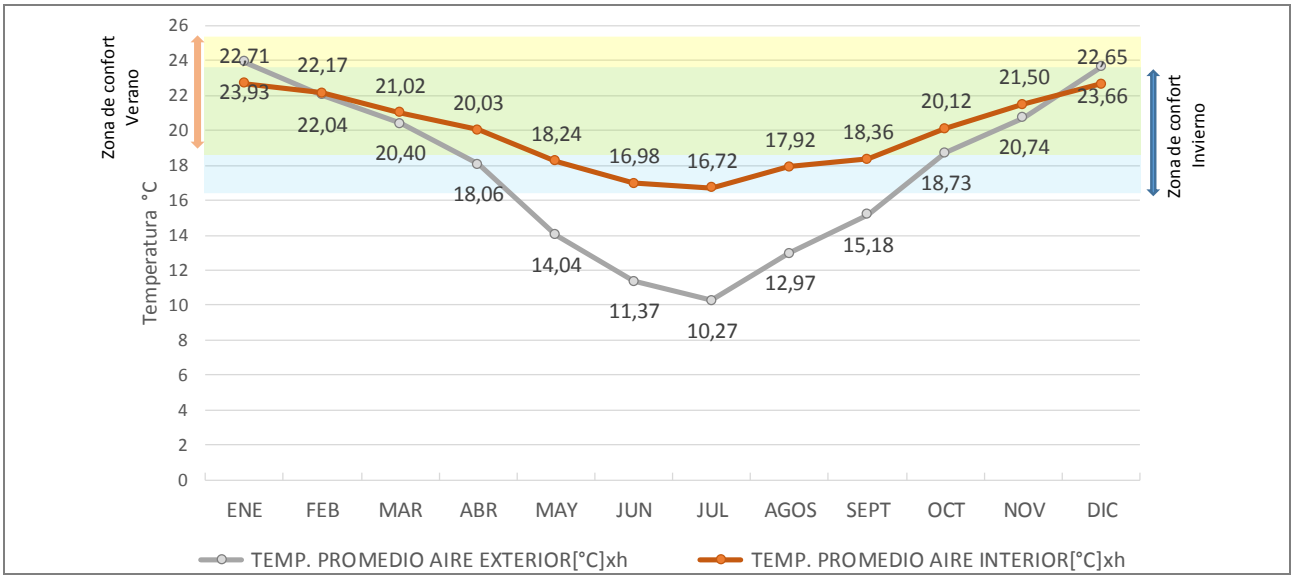

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 6,5 | 5,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,4** | **6,7** |
| | **Amortiguamiento:** | 0,063 | 0,082 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,9** | **3,9** |
| | **Amortiguamiento:** | 0,165 | 0,362 |

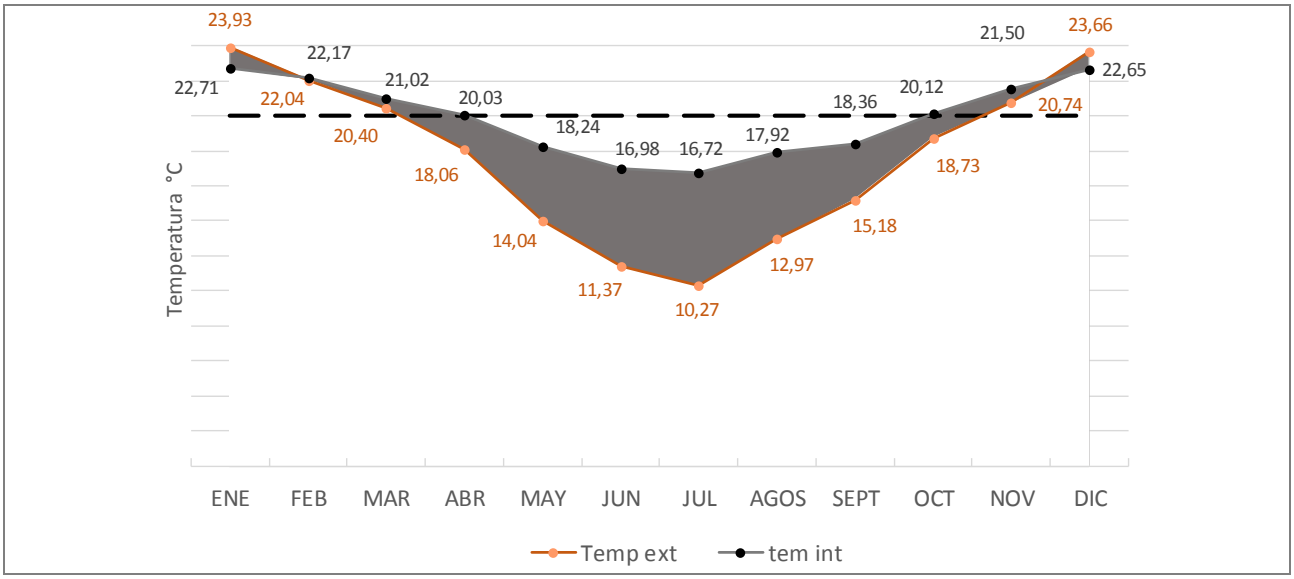
| STL-073 | CU | STEEL FRAME |
|---|---|---|

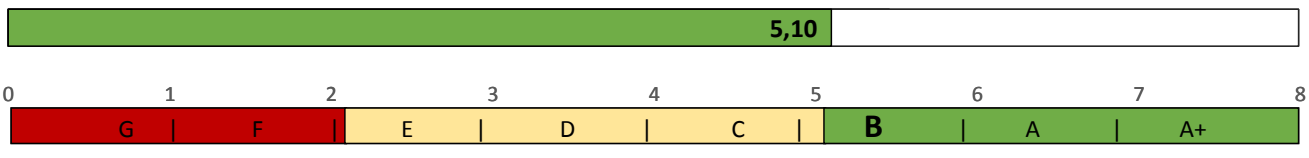
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,59** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,89** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



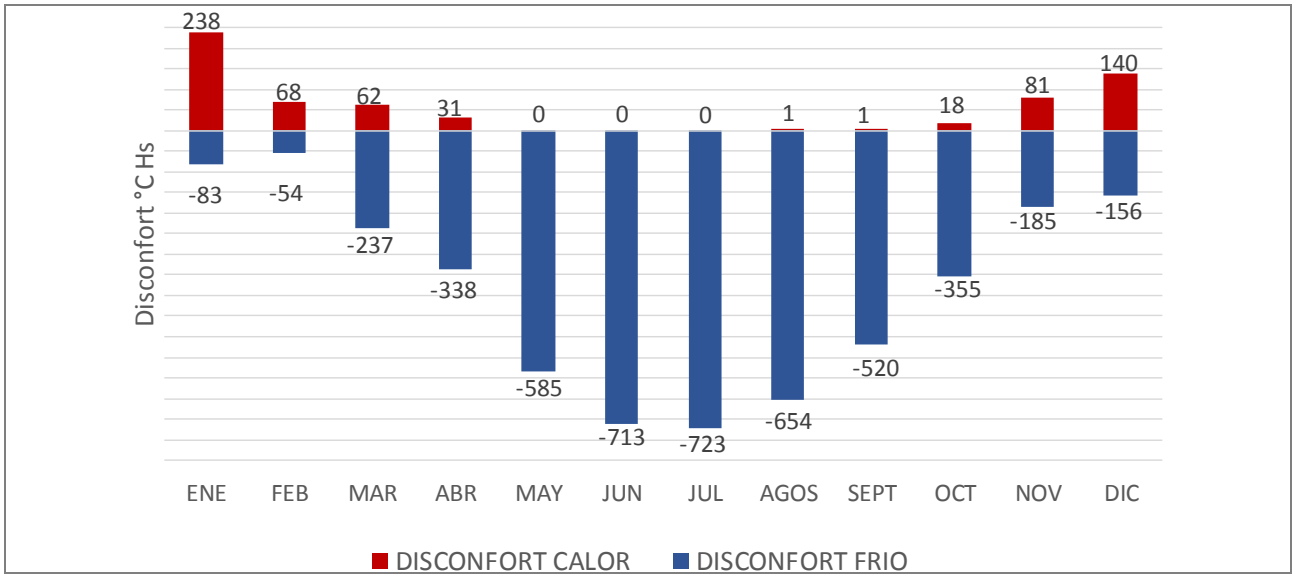




5,10 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-073 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

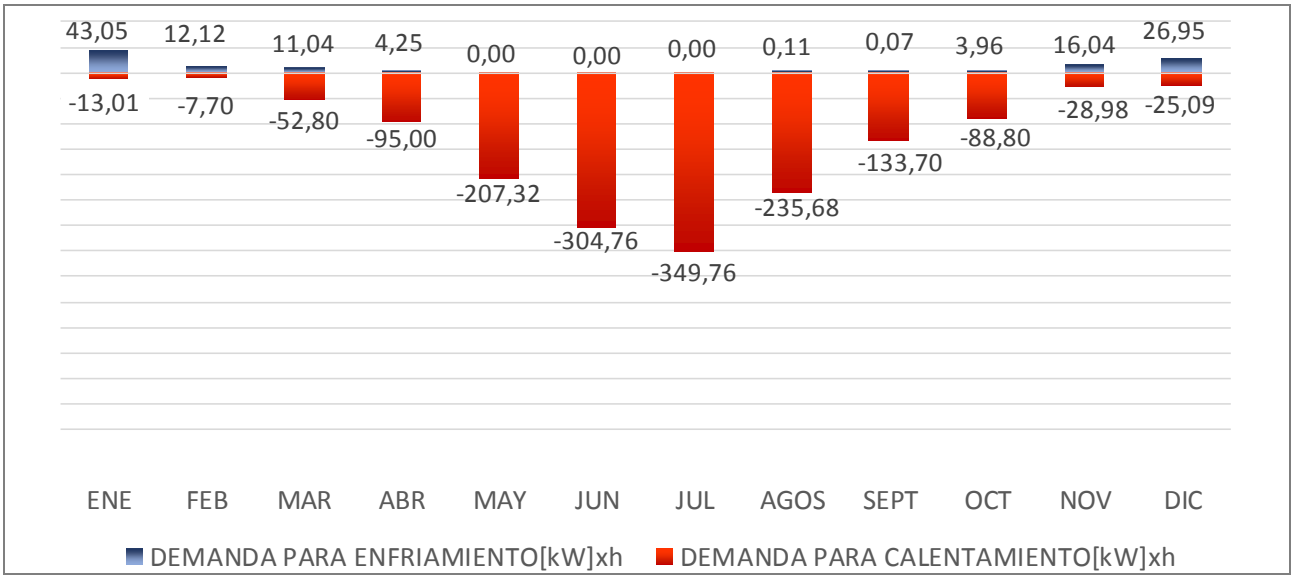
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **639** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.602** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.241** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

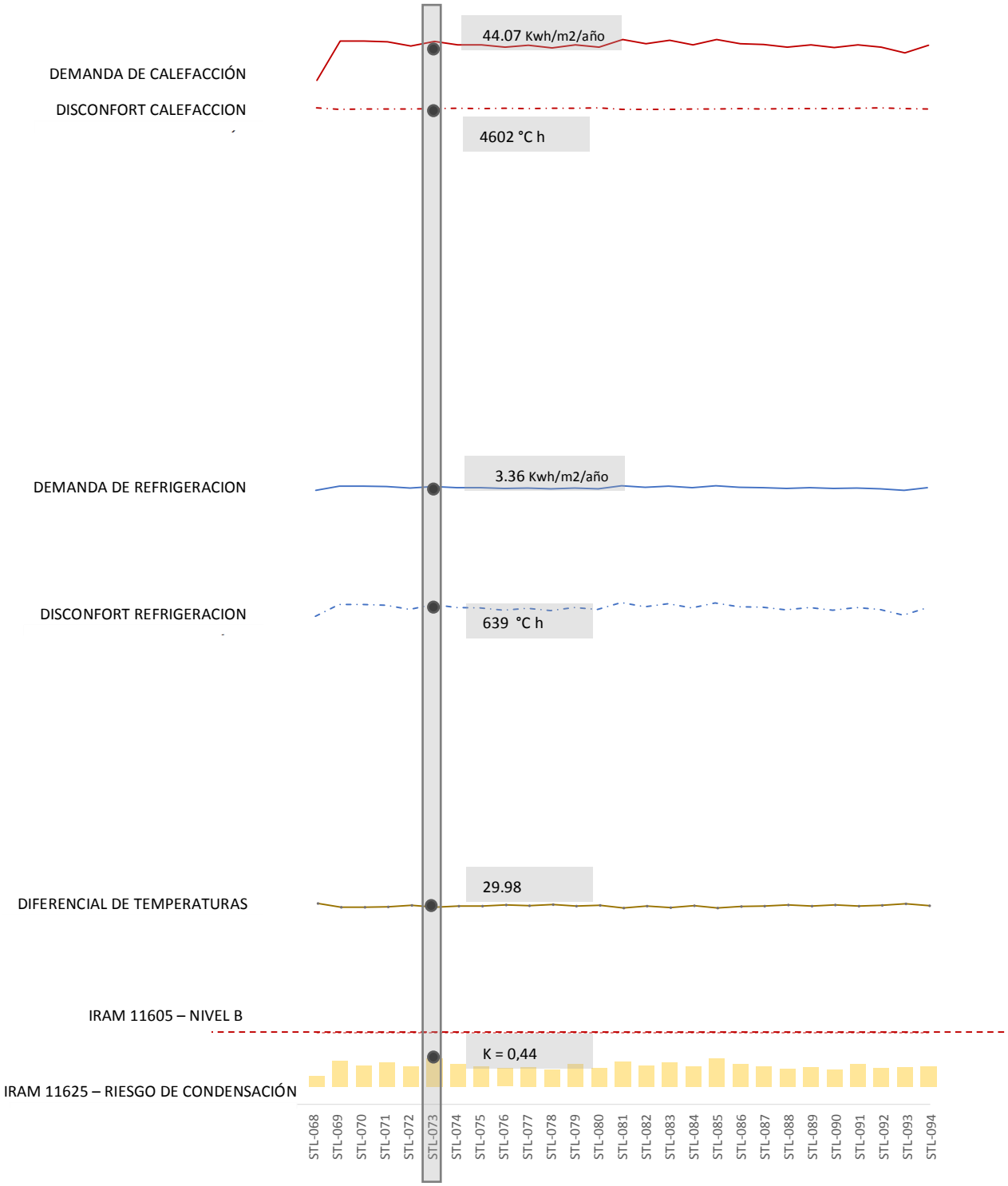



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **117,60** | kWh | 3,36 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.542,61** | kWh | 44,07 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.660,21** | kWh | **47,43** | kWh/m2/año |

| STL-073 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 050 | N° 043 | N° 080 | N° 092 | N° 101 | N° 086 |



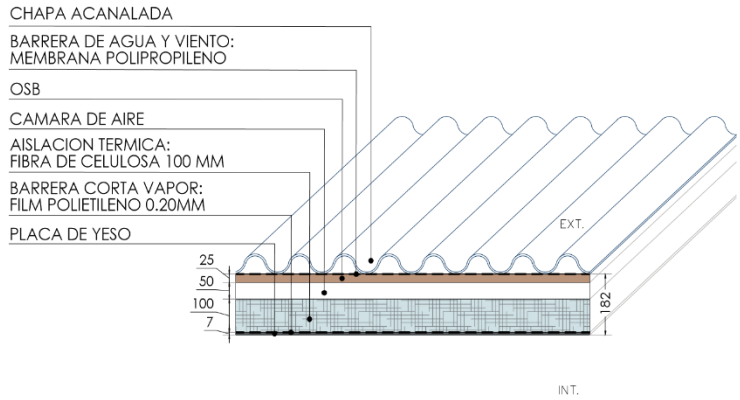

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,44 | 0% | 29,98 | 44,07 | 3,36 | 4602 | 639 |
| INC. FAMILIA | 135,62% | 0% | 99,31% | 103,57% | 113,97% | 100,03% | 107,44% |
| INC. MUNDIAL | 54,32% | 0% | 100,94% | 99,08% | 81,69% | 100,90% | 101,16% |

| STL-074 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

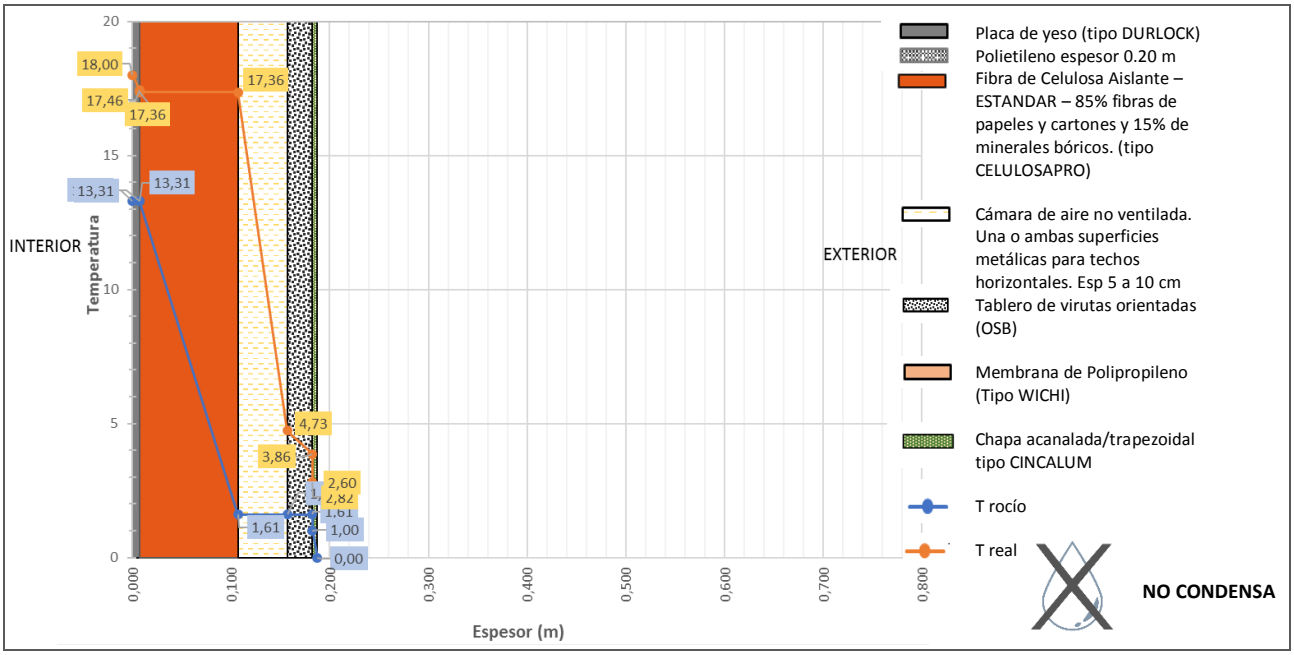
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,35 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



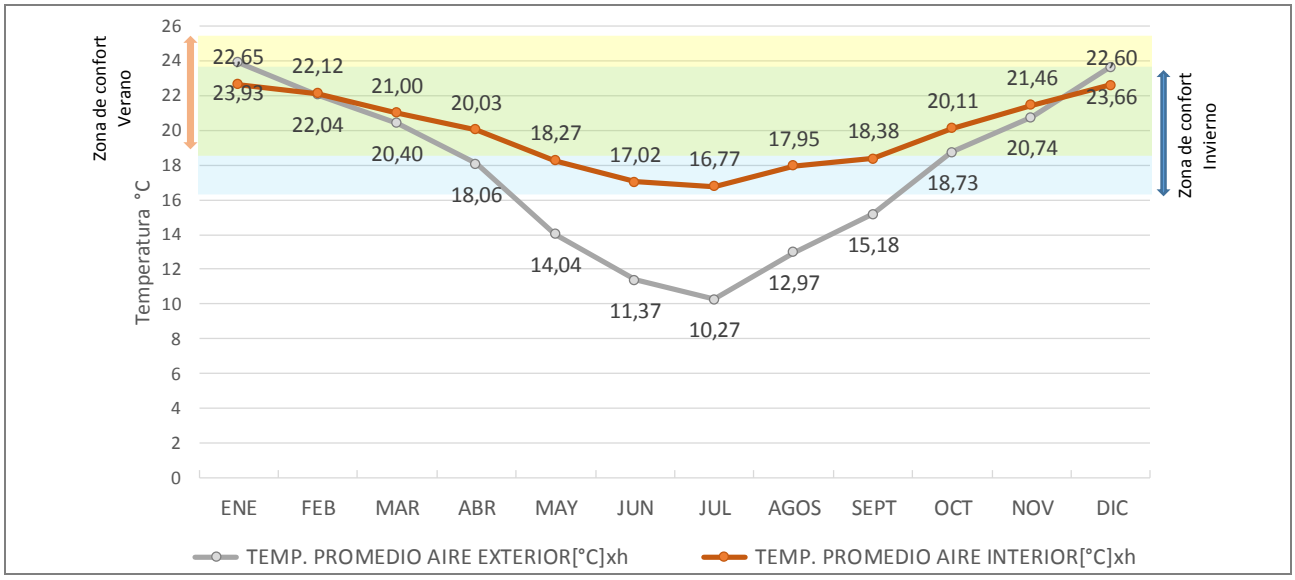

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 5,5 | 4,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,7** | **8,0** |
| | **Amortiguamiento:** | 0,040 | 0,052 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,9** | **4,6** |
| | **Amortiguamiento:** | 0,127 | 0,299 |

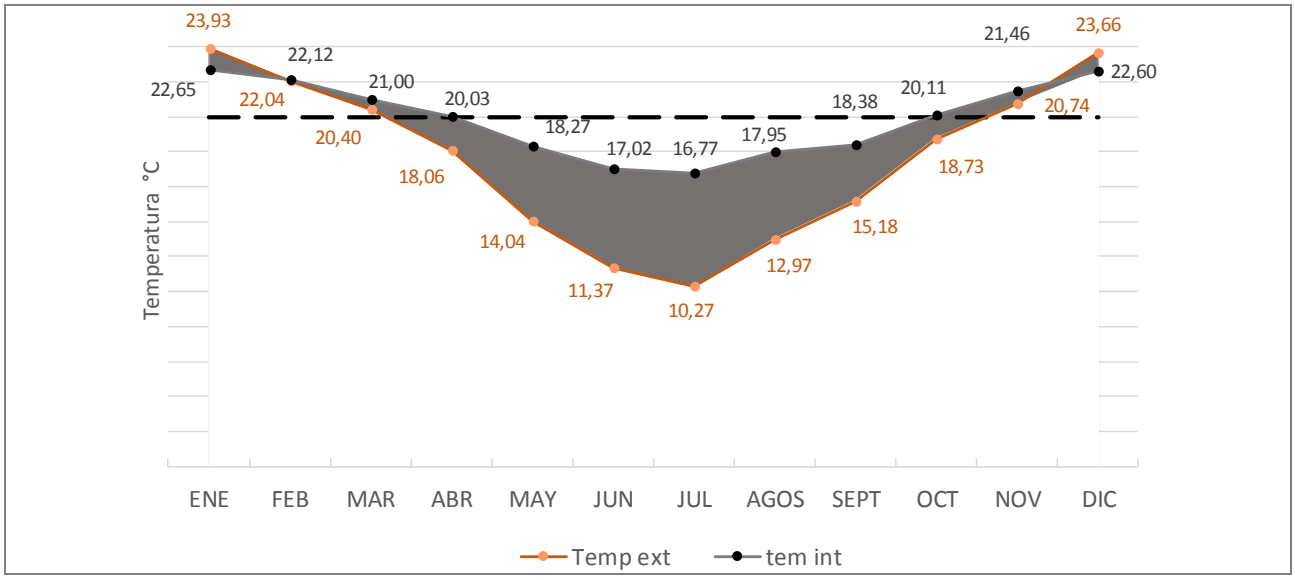
| STL-074 | CU | STEEL FRAME |
|---|---|---|

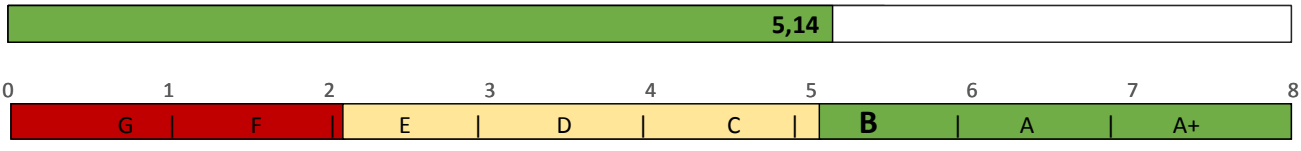
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,39** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,03** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



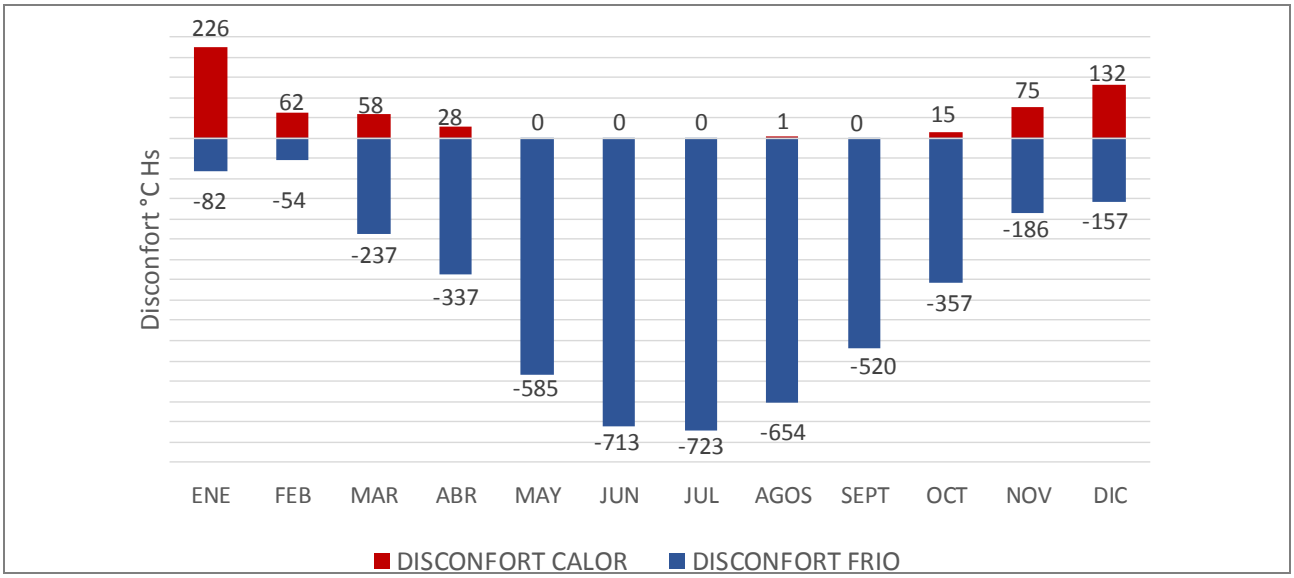




5,14 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-074 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

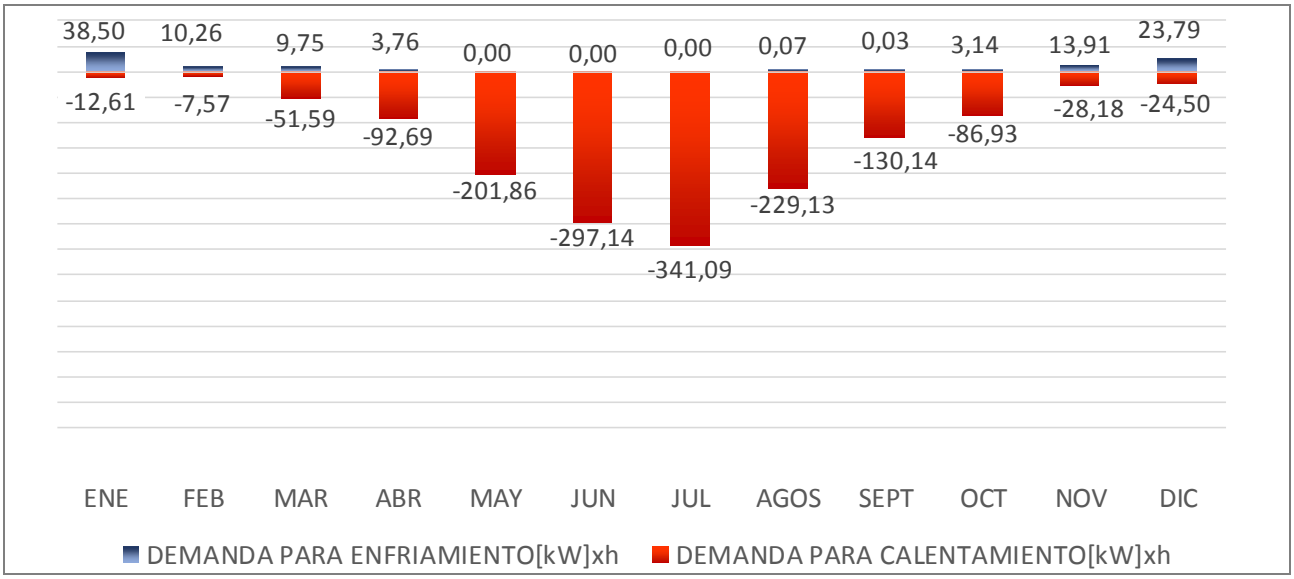
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **598** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.605** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.203** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

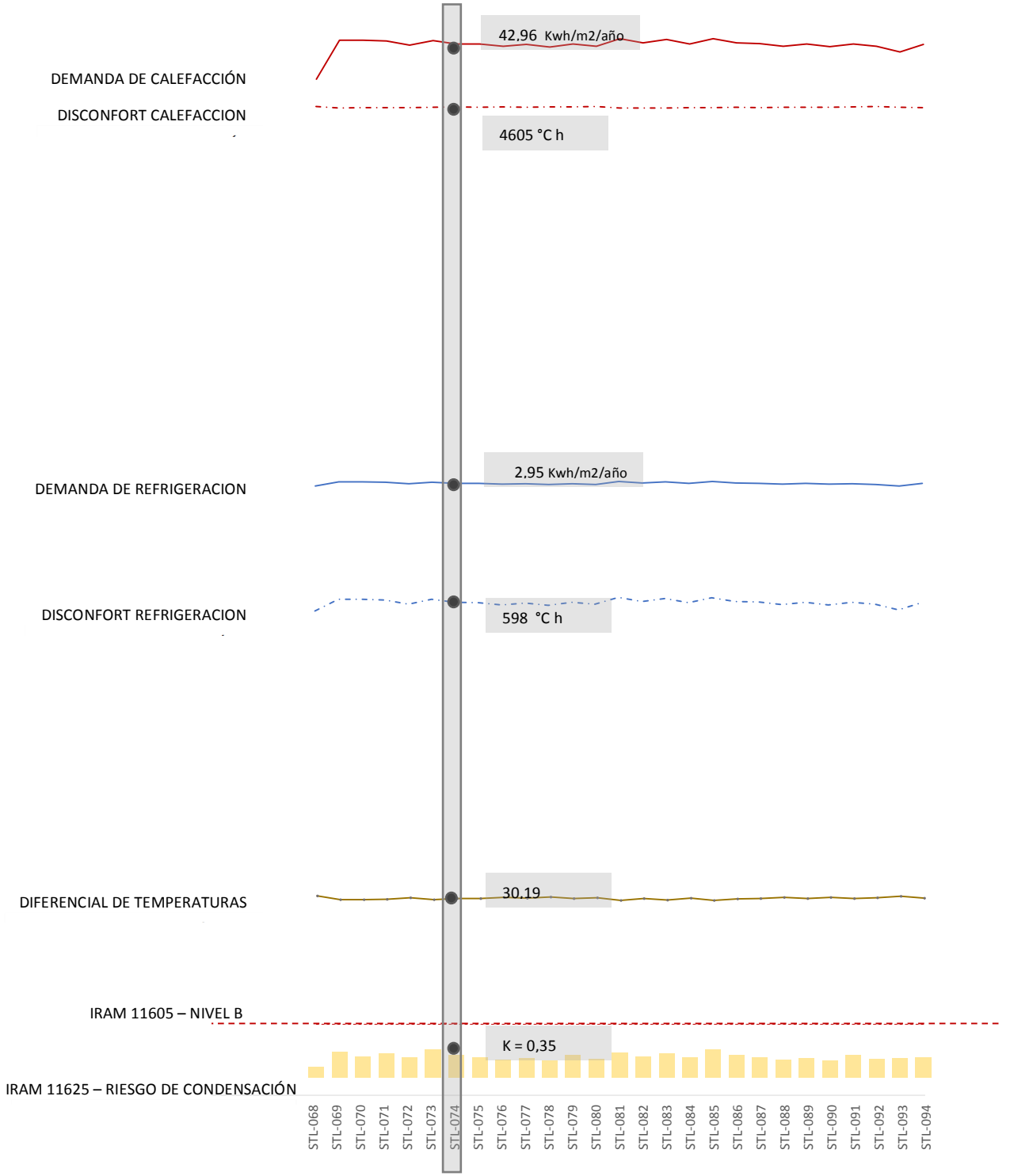



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **103,22** | kWh | 2,95 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.503,43** | kWh | 42,96 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.606,65** | kWh | **45,90** | kWh/m2/año |

| STL-074 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 031 | N° 022 | N° 065 | N° 078 | N° 106 | N° 068 |



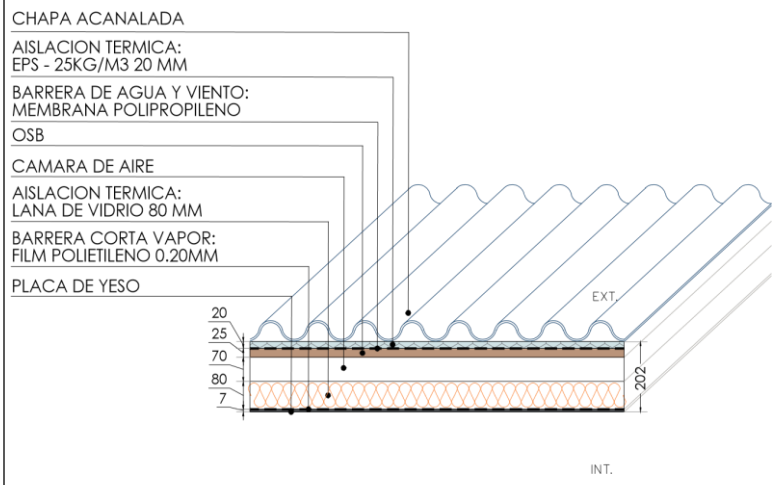

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,35 | 0% | 30,19 | 42,96 | 2,95 | 4605 | 598 |
| INC. FAMILIA | 107,88% | 0% | 100,00% | 100,96% | 100,06% | 100,09% | 100,55% |
| INC. MUNDIAL | 43,21% | 0% | 101,65% | 96,59% | 71,72% | 100,97% | 94,67% |

| STL-075 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 80MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

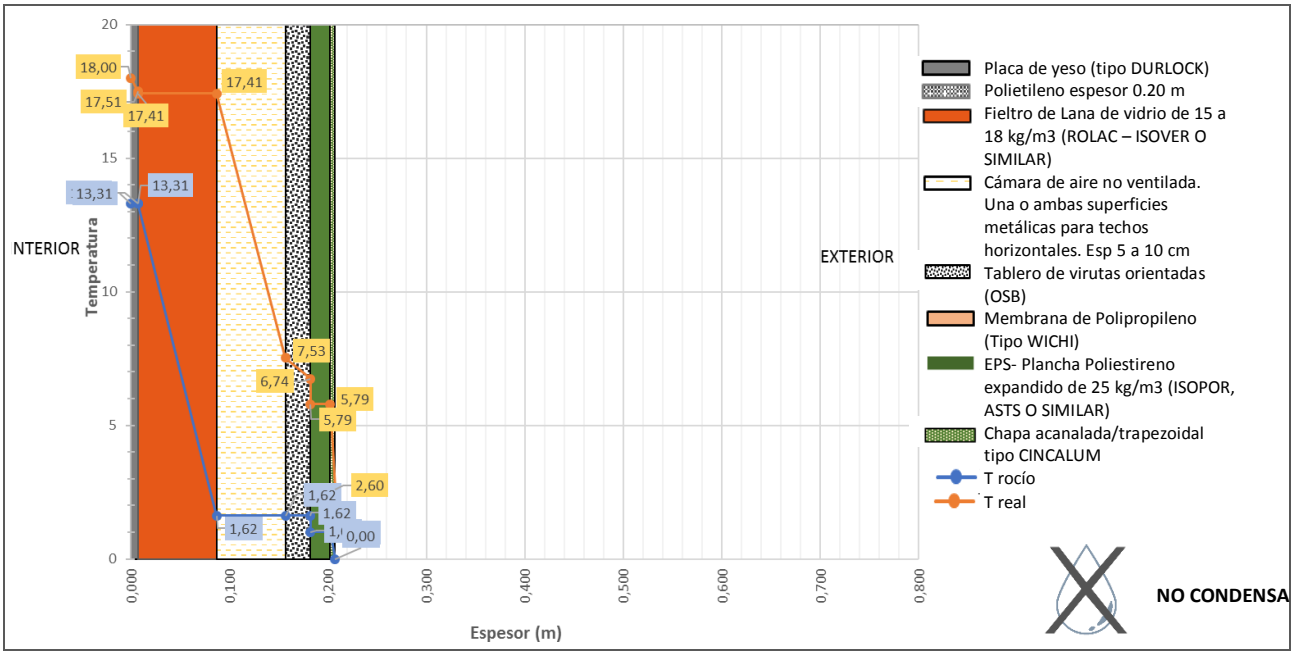
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,31 | 0,32 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



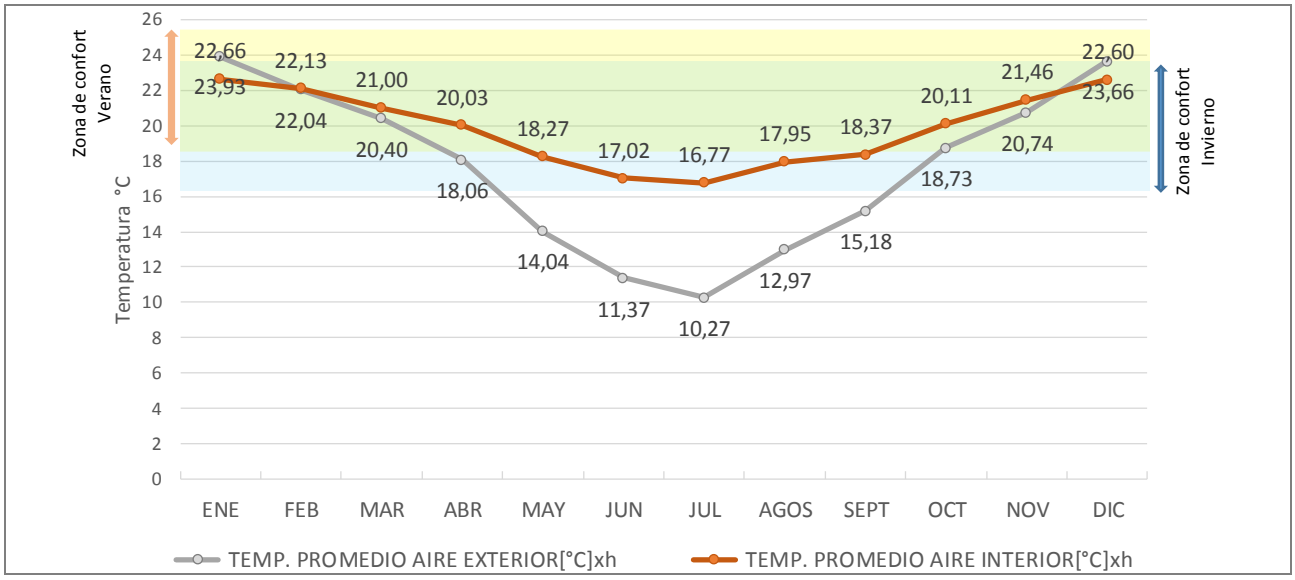

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,0 | 2,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,4** | **7,3** |
| | **Amortiguamiento:** | 0,045 | 0,066 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,7** | **4,4** |
| | **Amortiguamiento:** | 0,132 | 0,320 |

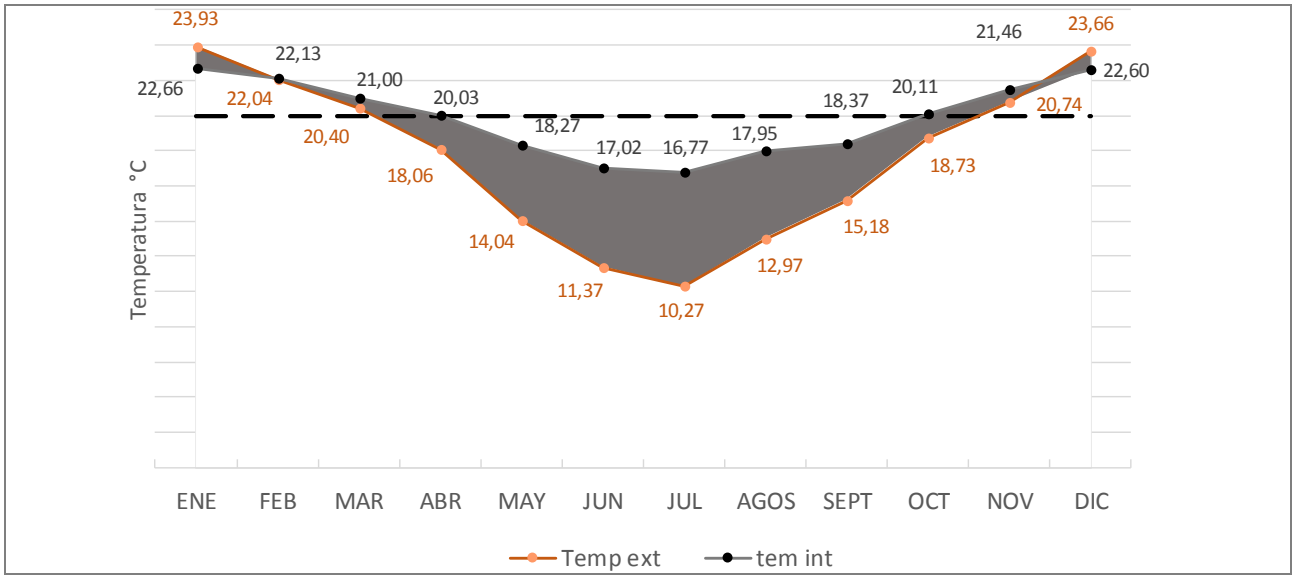
| STL-075 | CU | STEEL FRAME |
|---|---|---|

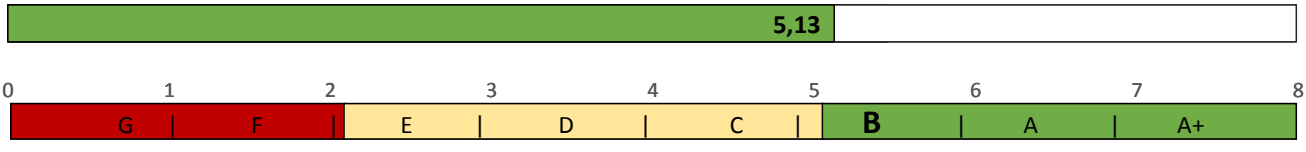
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,38** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,03** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



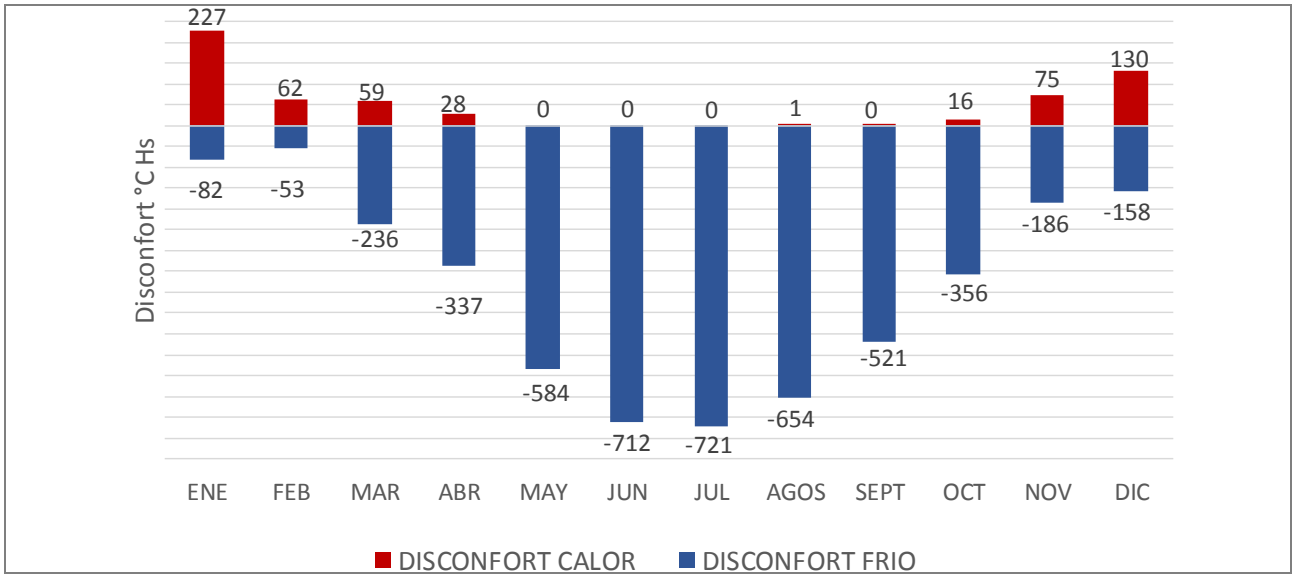




5,13 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-075 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

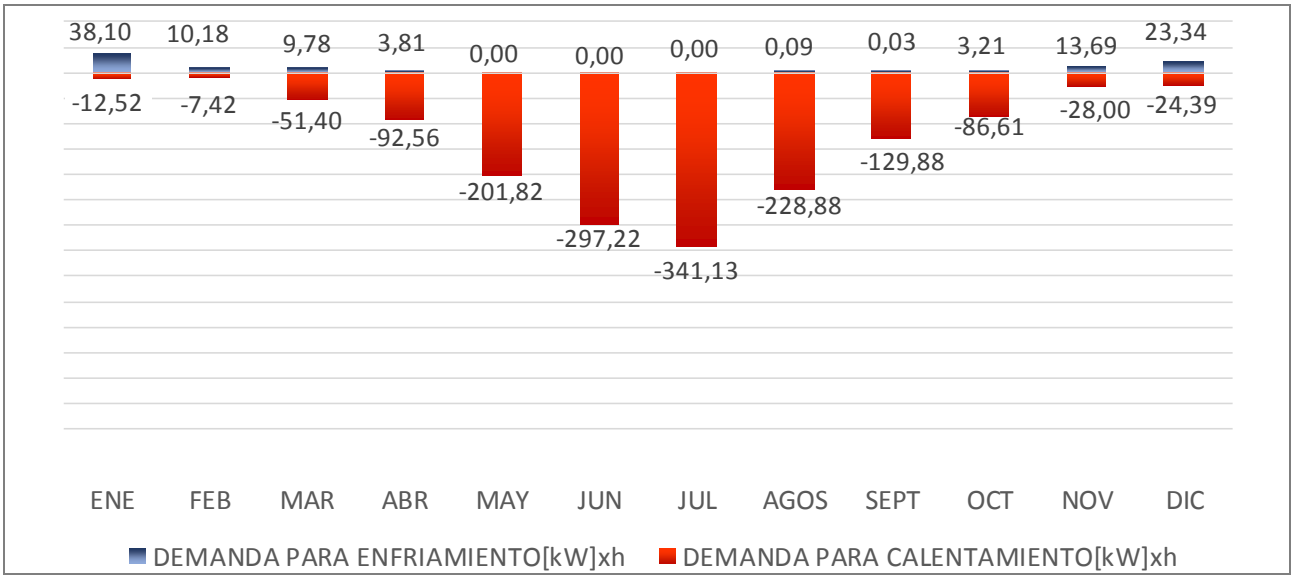
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **596** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.601** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.197** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

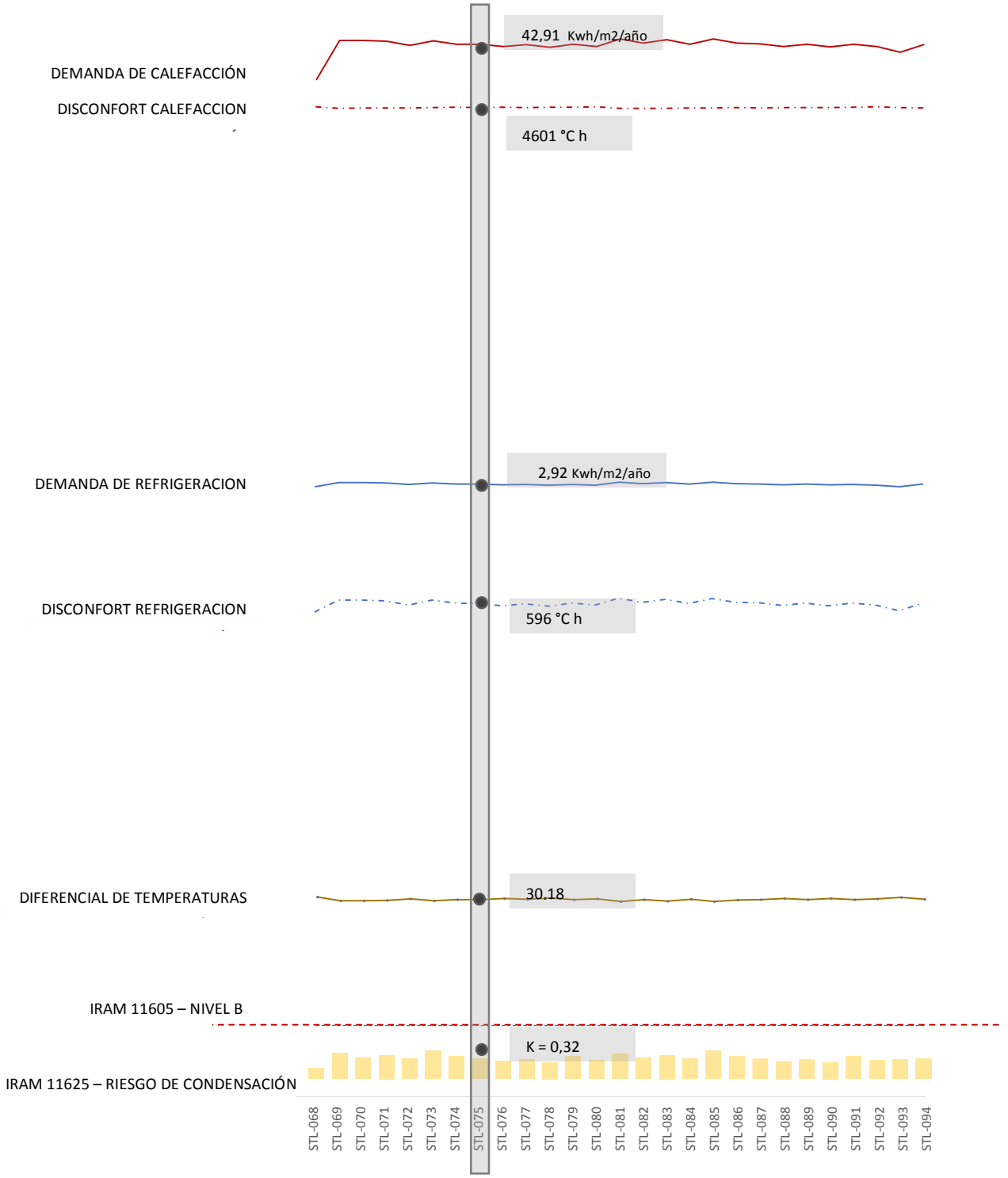



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **102,23** | kWh | 2,92 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.501,83** | kWh | 42,91 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.604,06** | kWh | **45,83** | kWh/m2/año |

| STL-075 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 021 | N° 024 | N° 062 | N° 075 | N° 098 | N° 066 |



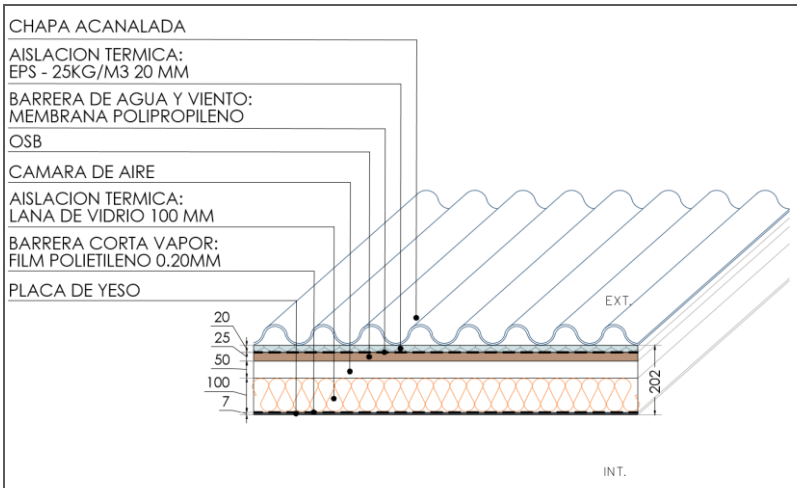

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,32 | 0% | 30,18 | 42,91 | 2,92 | 4601 | 596 |
| INC. FAMILIA | 98,63% | 0% | 99,97% | 100,84% | 99,05% | 100,00% | 100,21% |
| INC. MUNDIAL | 39,51% | 0% | 101,62% | 96,47% | 70,99% | 100,88% | 94,35% |

| STL-076 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

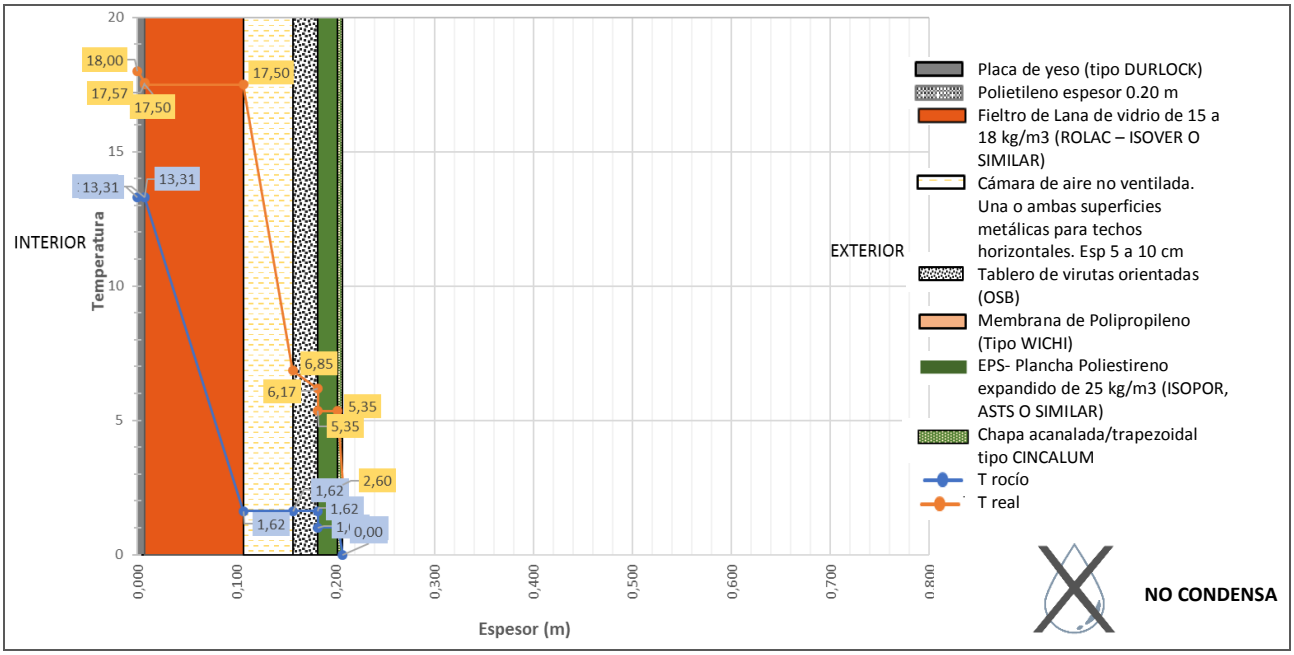
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,27 | 0,28 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



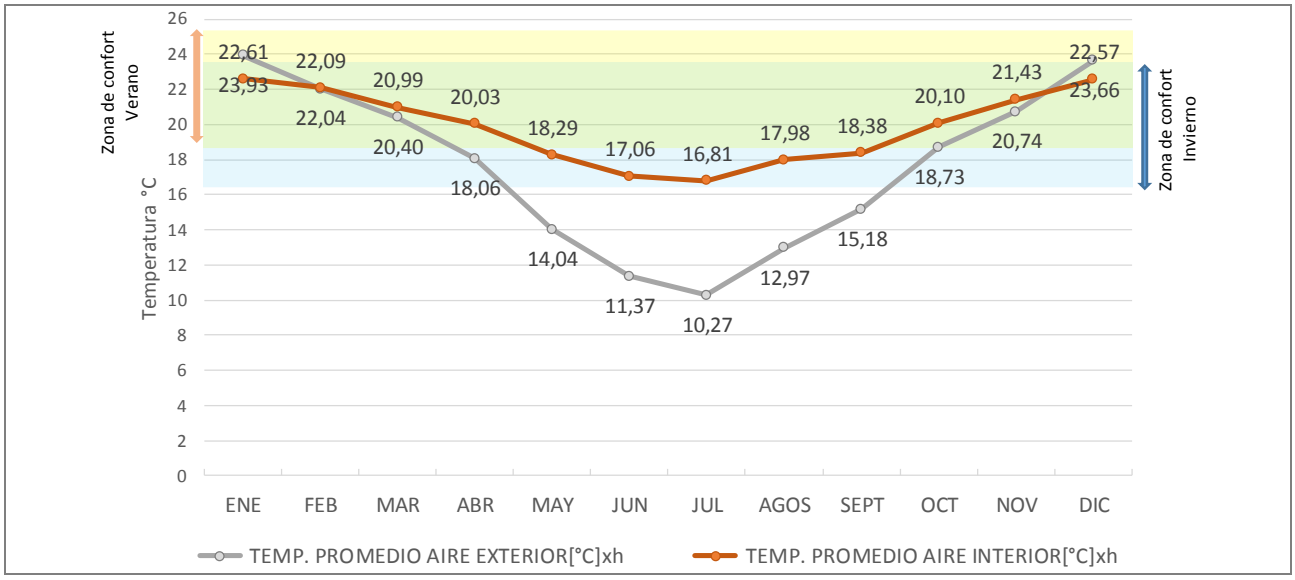

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,6 | 2,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,8** | **6,8** |
| | **Amortiguamiento:** | 0,056 | 0,081 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,1** | **4,2** |
| | **Amortiguamiento:** | 0,155 | 0,335 |

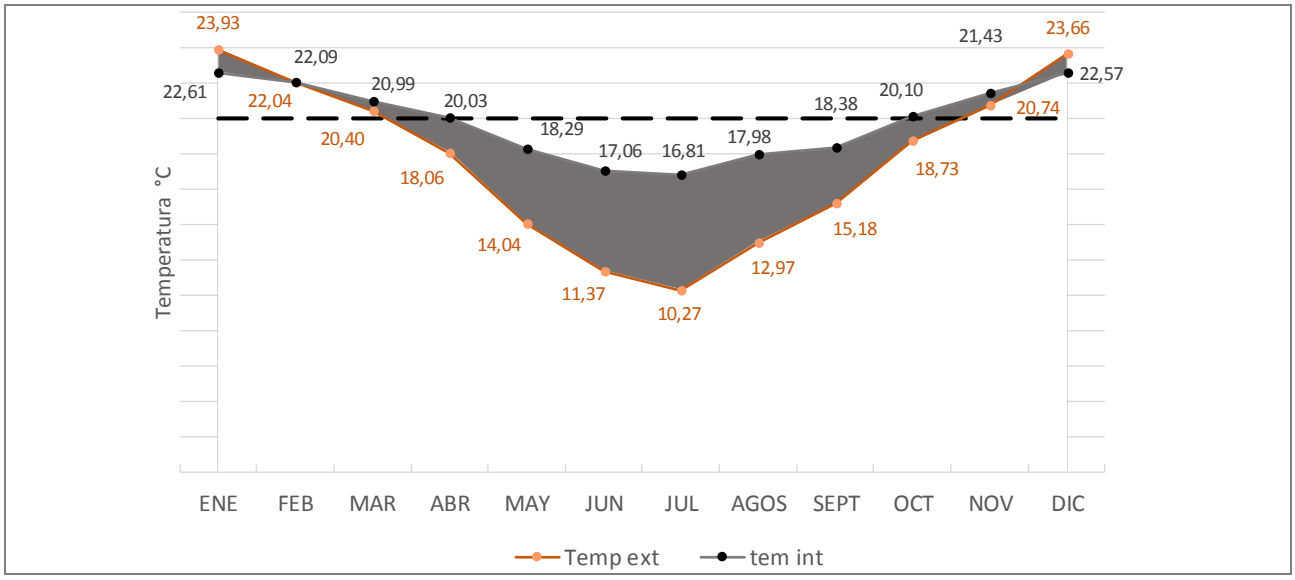
| STL-076 | CU | STEEL FRAME |
|---|---|---|

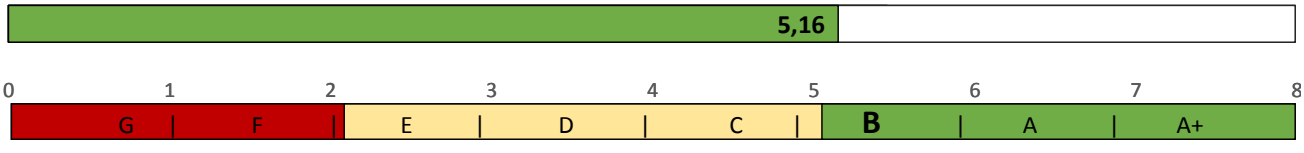
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,26** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,13** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



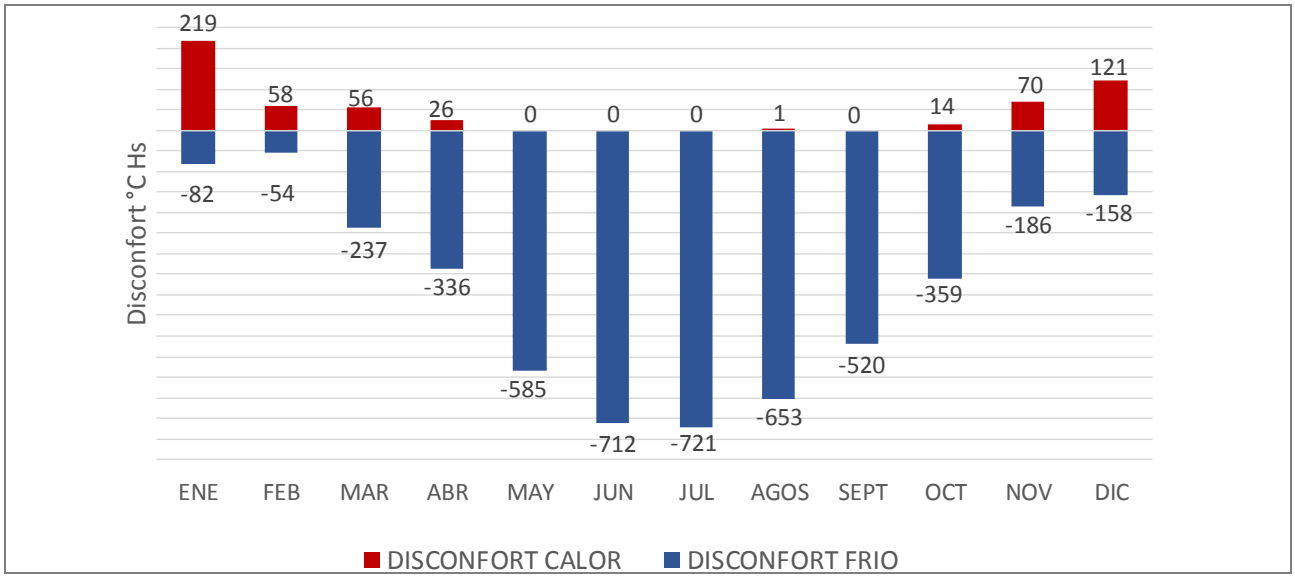




5,16 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| STL-076 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

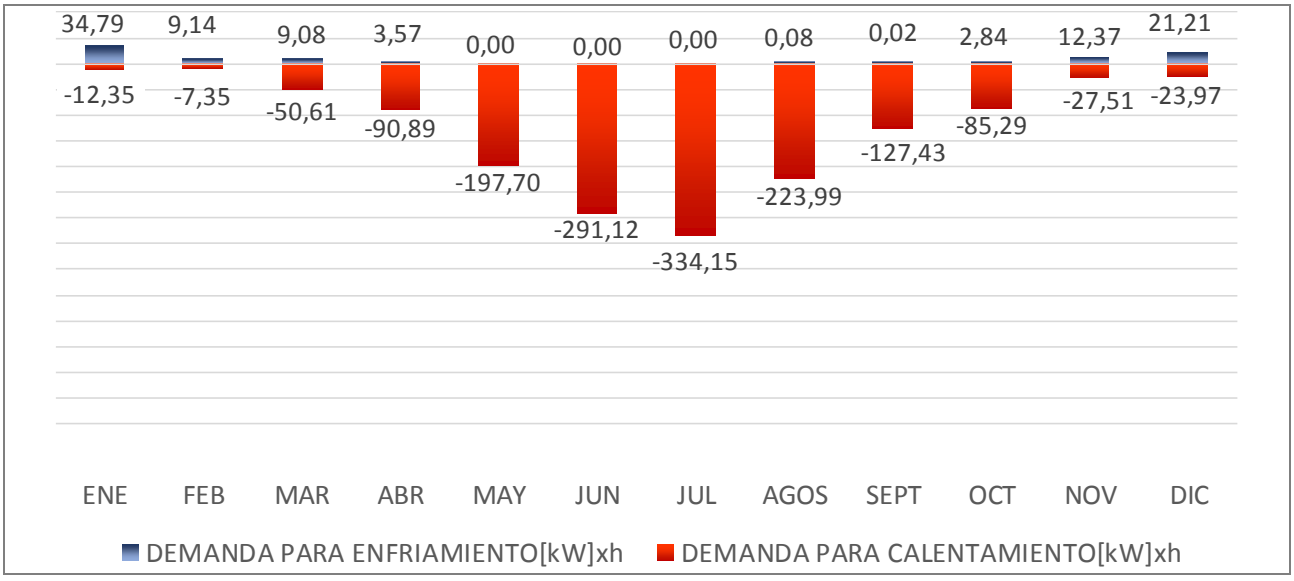
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **565** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.605** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.170** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

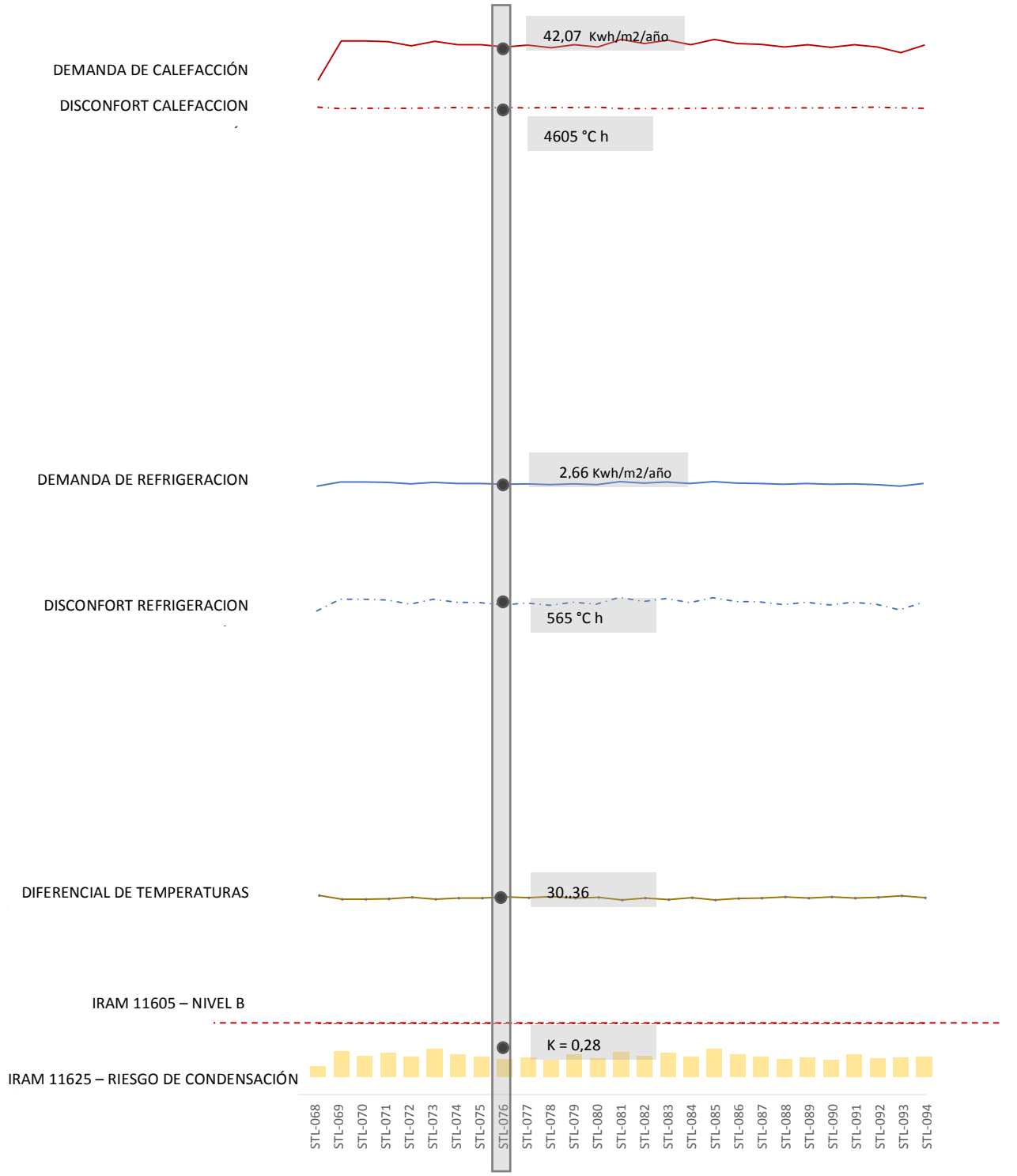



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **93,09** | kWh | 2,66 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.472,38** | kWh | 42,07 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.565,47** | kWh | **44,73** | kWh/m2/año |

| STL-076 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 009 | N° 009 | N° 051 | N° 059 | N° 107 | N° 055 |



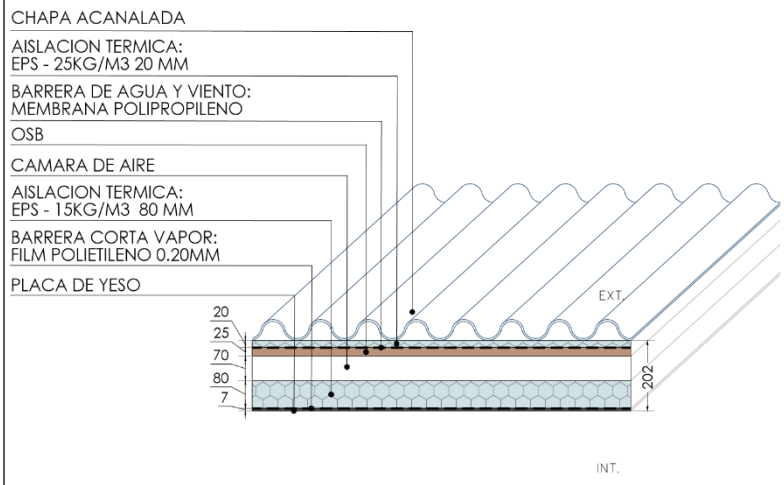

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,28 | 0% | 30,36 | 42,07 | 2,66 | 4605,00 | 565,00 |
| INC. FAMILIA | 0,8630137 | 0% | 100,57% | 98,87% | 90,23% | 100,09% | 95,00% |
| INC. MUNDIAL | 0,34567901 | 0% | 102,22% | 94,59% | 64,67% | 100,97% | 89,45% |

| STL-077 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 80MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

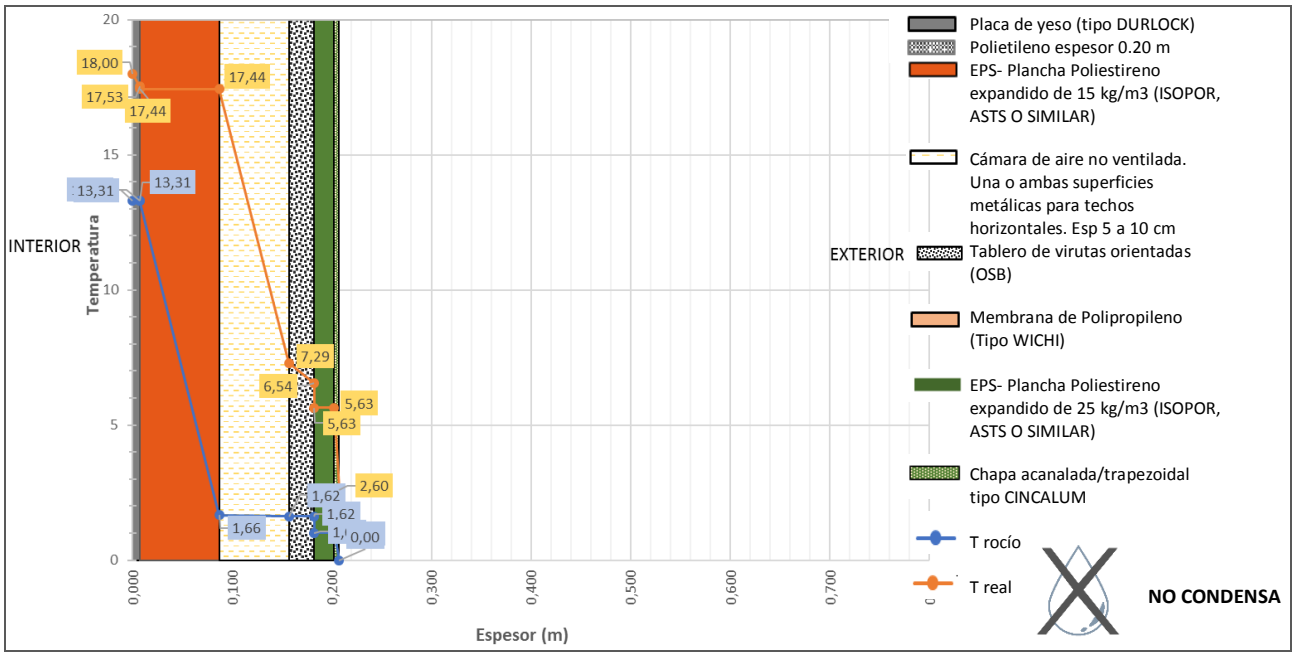
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,30 | 0,30 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



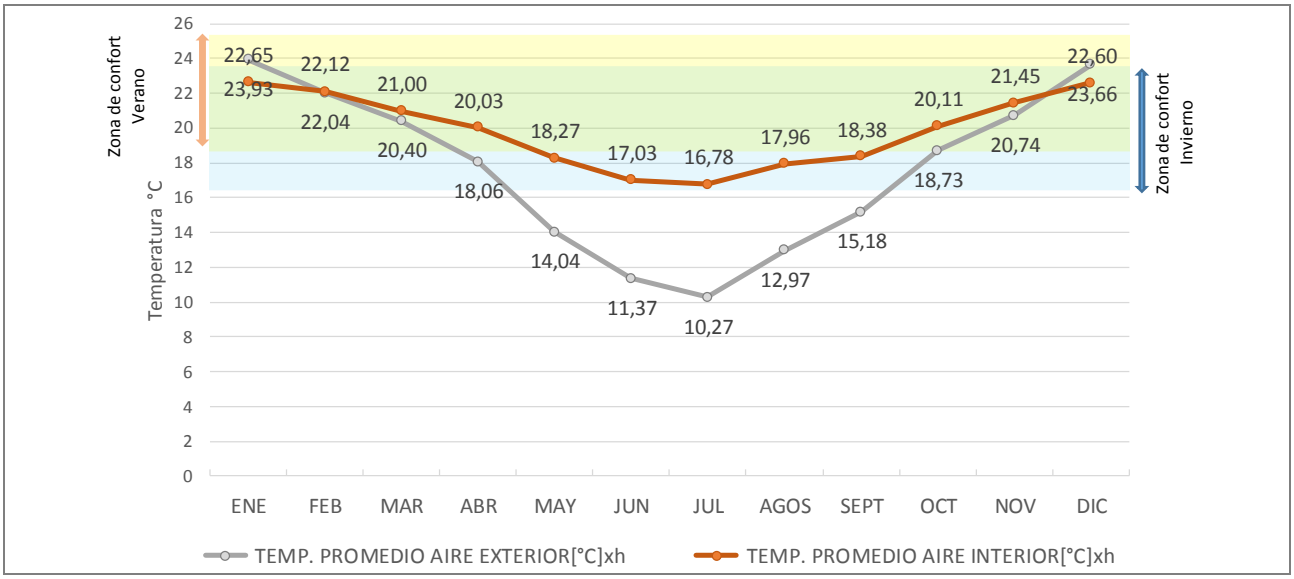

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,4 | 2,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,0** | **7,0** |
| | **Amortiguamiento:** | 0,052 | 0,075 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,3** | **4,2** |
| | **Amortiguamiento:** | 0,147 | 0,330 |

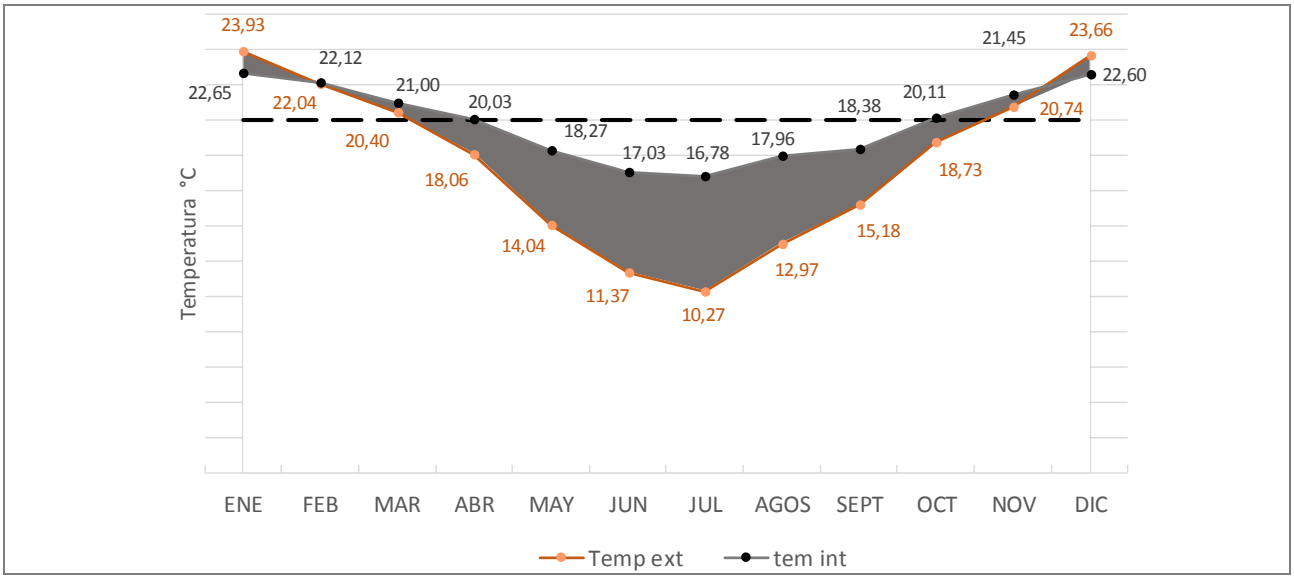
| STL-077 | CU | STEEL FRAME |
|---|---|---|

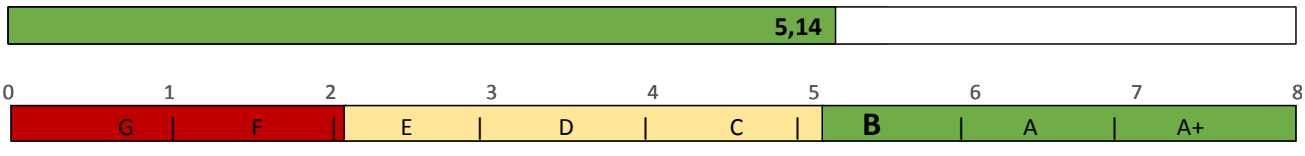
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,35** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,05** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



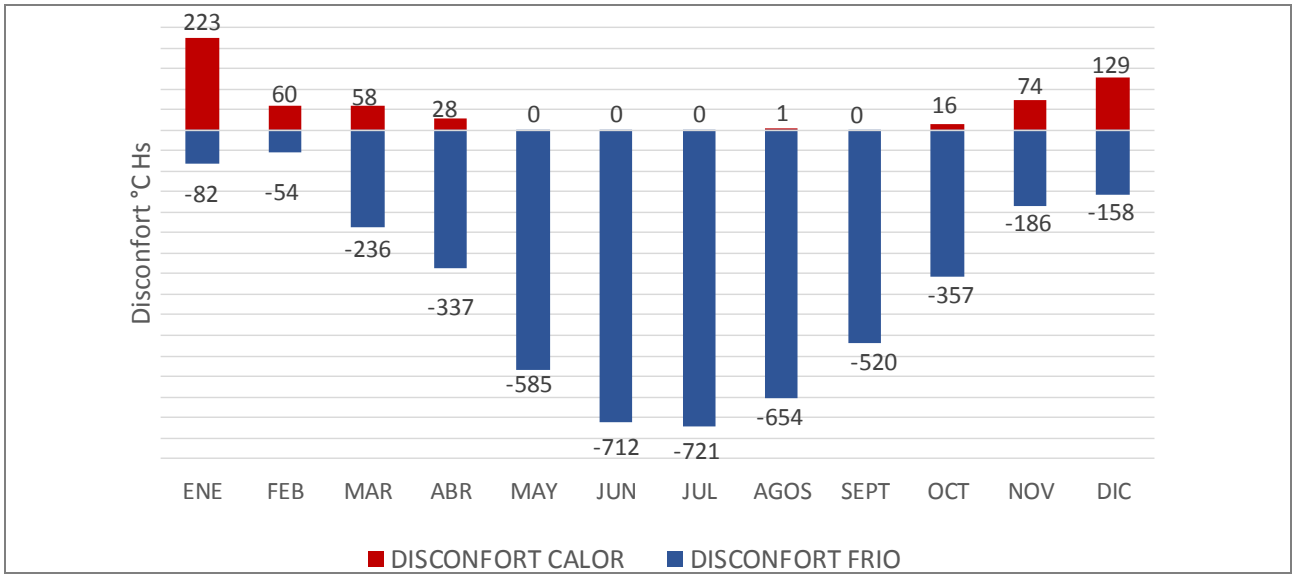




5,14 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-077 | CU | STEEL FRAME |
|---|---|---|

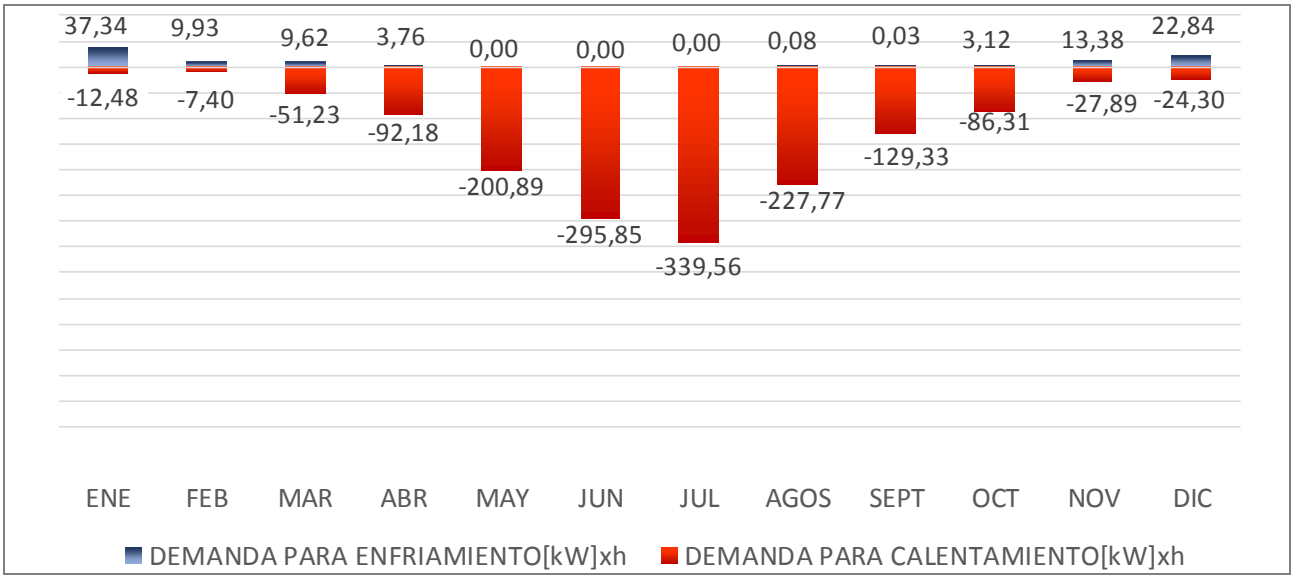
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **589** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.602** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.191** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

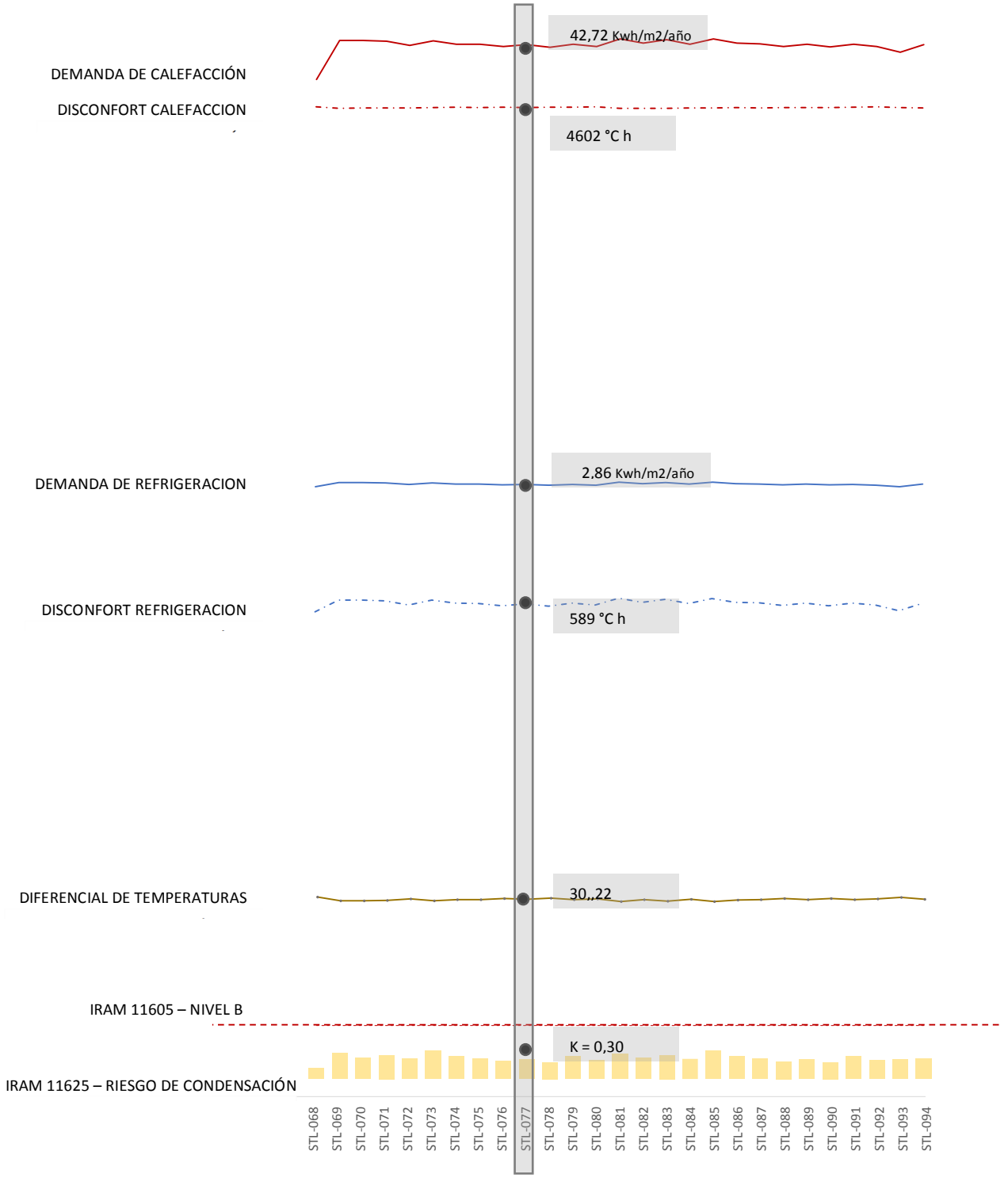



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **100,11** | kWh | 2,86 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.495,18** | kWh | 42,72 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.595,29** | kWh | **45,58** | kWh/m2/año |

| STL-077 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 013 | N° 020 | N° 058 | N° 069 | N° 102 | N° 063 |



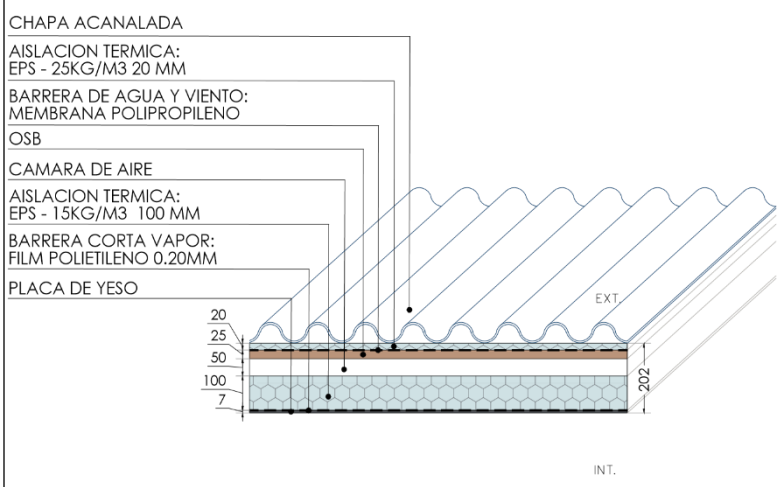

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4560,94 | 631,66 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4600,78 | 594,74 |
| INDIVIDUAL | 0,3 | 0% | 30,22 | 42,72 | 2,86 | 4602 | 589 |
| INC. FAMILIA | 92,47% | 0% | 100,10% | 100,39% | 97,01% | 100,03% | 99,03% |
| INC. MUNDIAL | 37,04% | 0% | 101,75% | 96,05% | 69,53% | 100,90% | 93,25% |

| STL-078 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

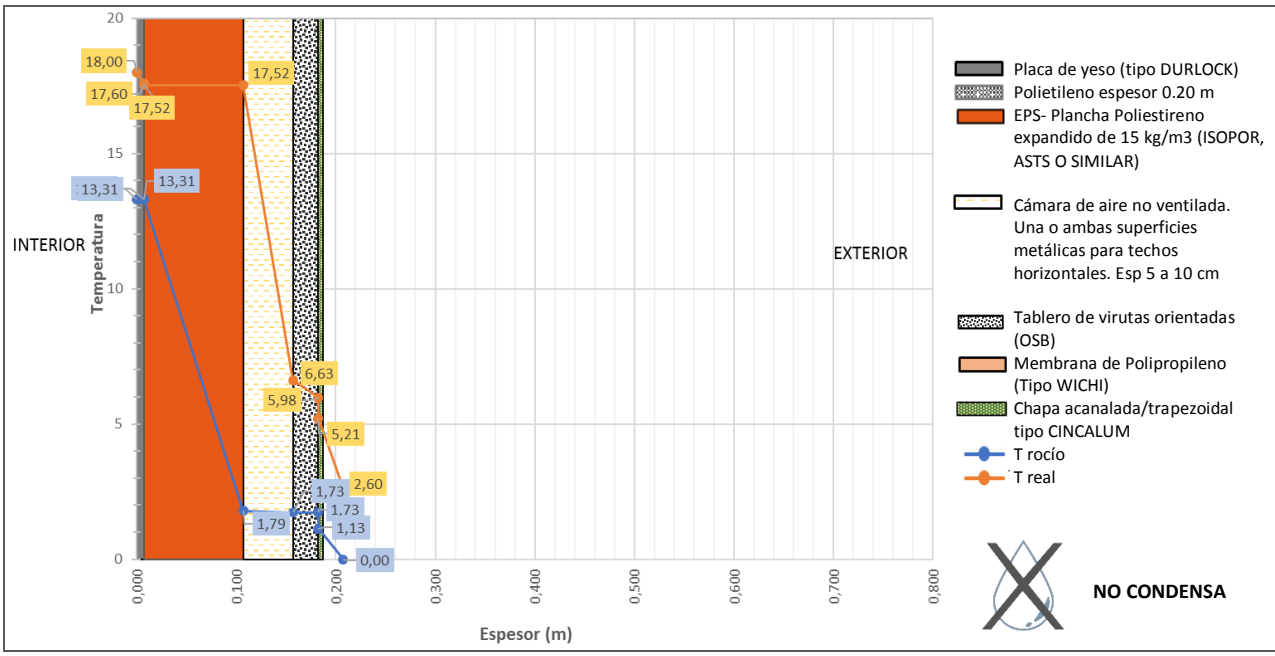
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,26 | 0,26 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



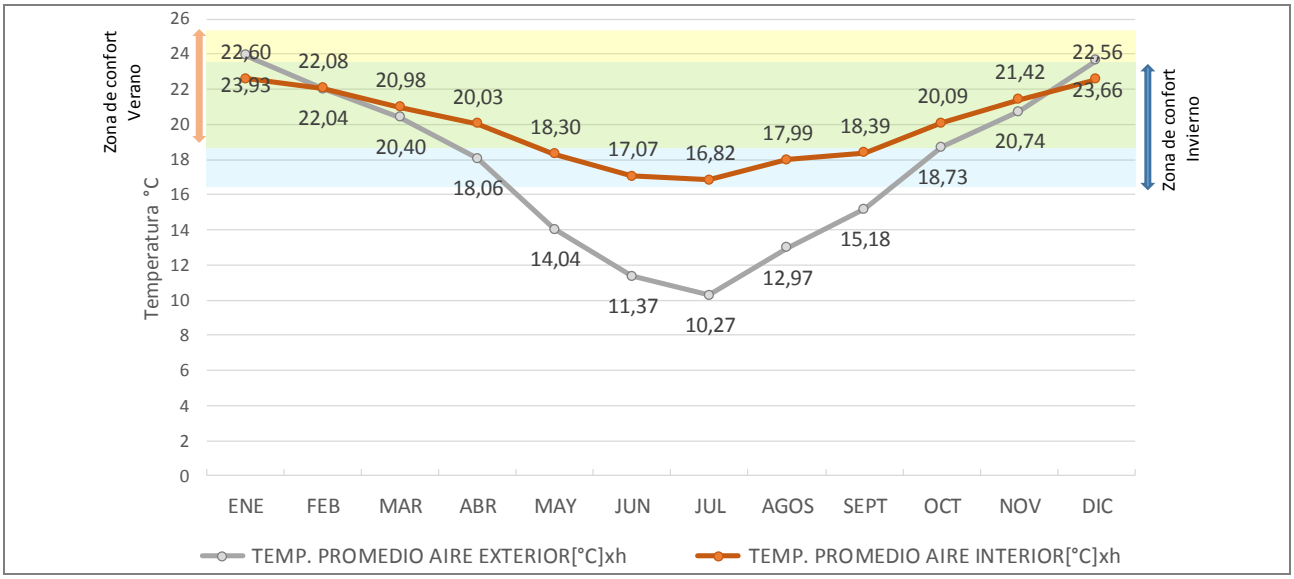

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,9 | 2,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,6** | **7,6** |
| | **Amortiguamiento:** | 0,041 | 0,061 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,0** | **4,4** |
| | **Amortiguamiento:** | 0,124 | 0,314 |

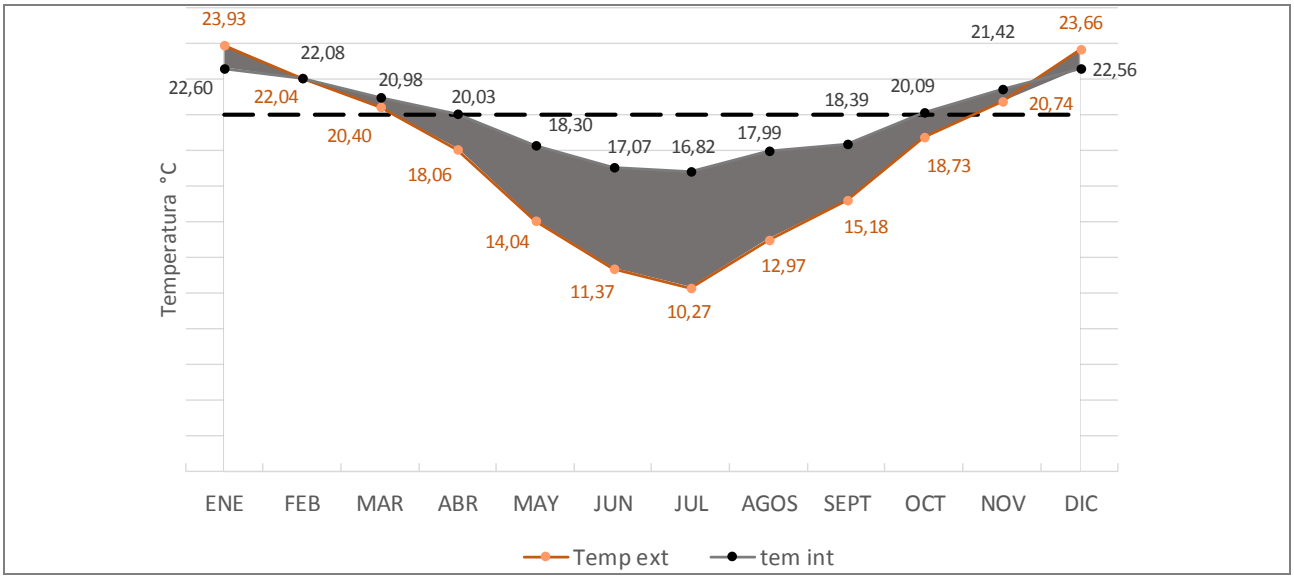
| STL-078 | CU | STEEL FRAME |
|---|---|---|

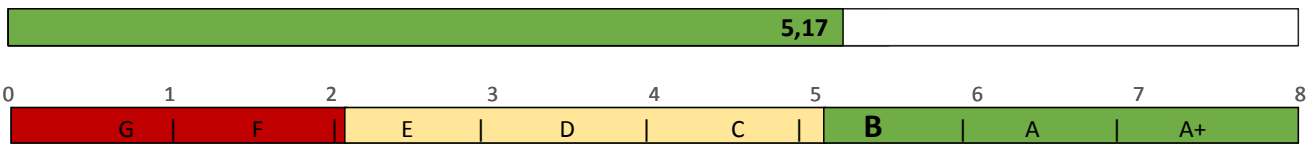
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,23** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,15** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



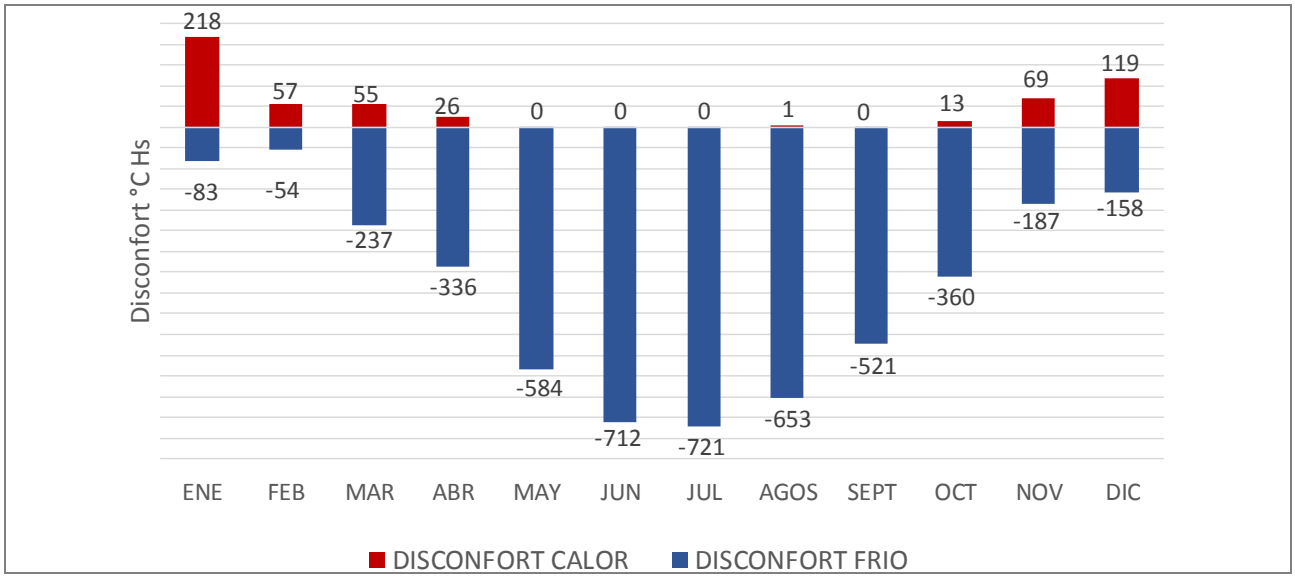




5,17 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| STL-078 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

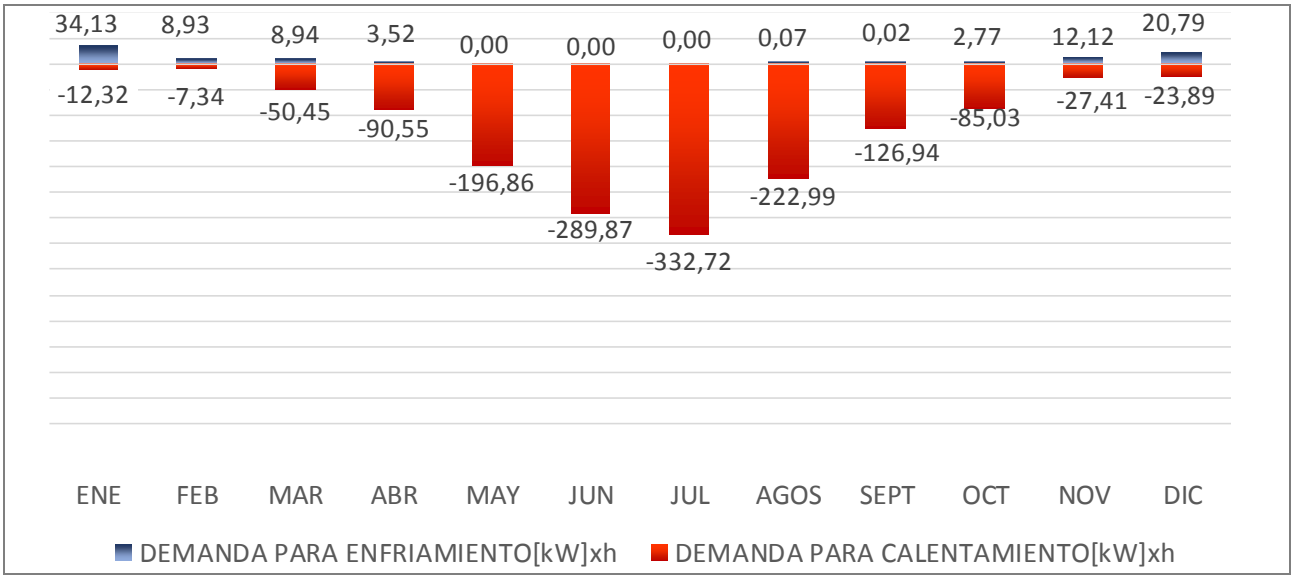
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **558** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.606** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.164** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

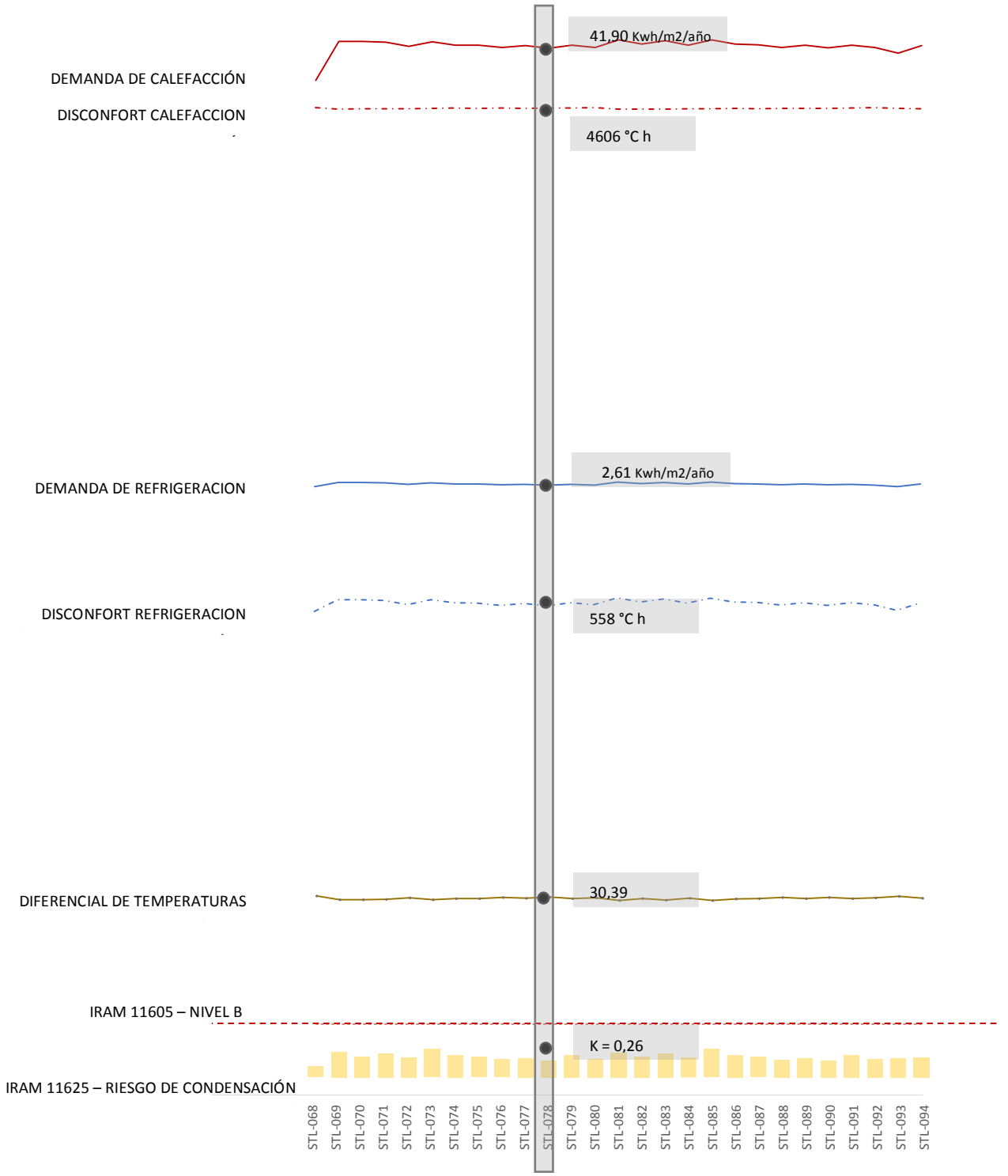



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **91,29** | kWh | 2,61 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.466,35** | kWh | 41,90 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.557,64** | kWh | **44,50** | kWh/m2/año |

| STL-078 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 004 | N° 007 | N° 049 | N° 055 | N° 109 | N° 052 |



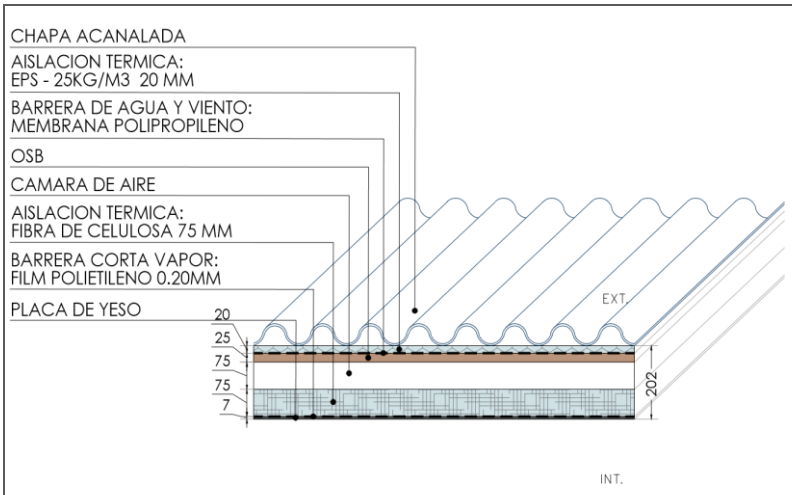

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,26 | 0% | 30,39 | 41,9 | 2,61 | 4606 | 558 |
| INC. FAMILIA | 80,14% | 0% | 100,67% | 98,47% | 88,53% | 100,11% | 93,82% |
| INC. MUNDIAL | 32,10% | 0% | 102,33% | 94,20% | 63,45% | 100,99% | 88,34% |

| STL-079 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

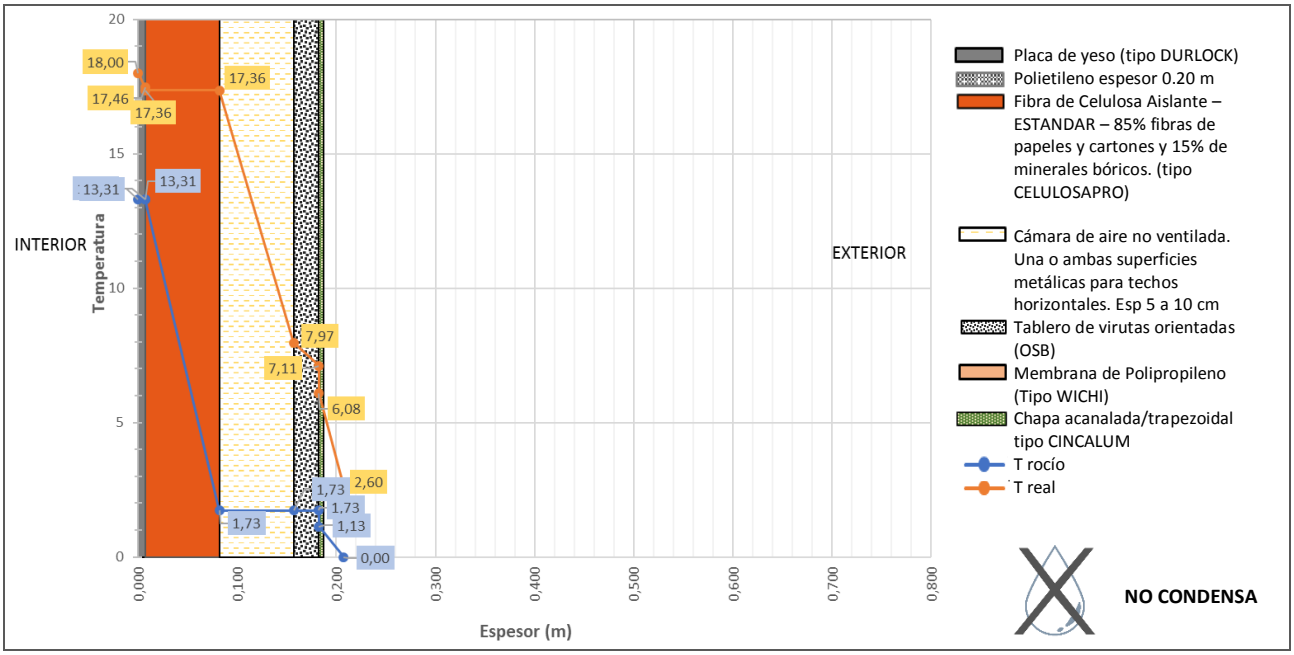
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,35 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



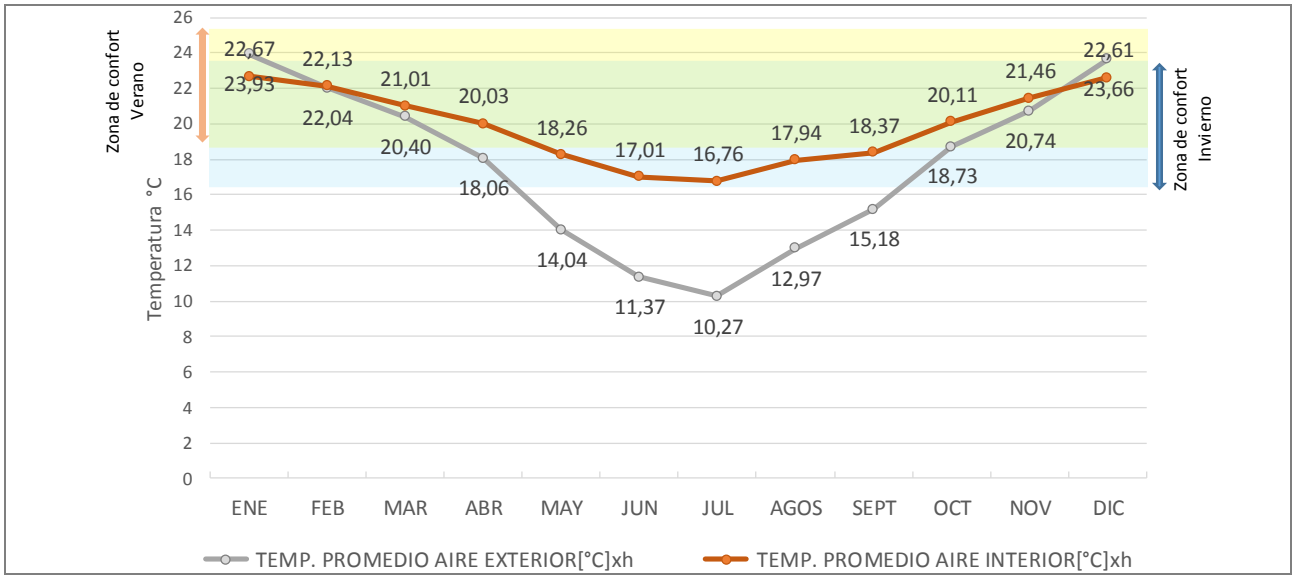

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 5,0 | 4,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,5** | **7,7** |
| | **Amortiguamiento:** | 0,044 | 0,059 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,2** | **5,2** |
| | **Amortiguamiento:** | 0,152 | 0,257 |

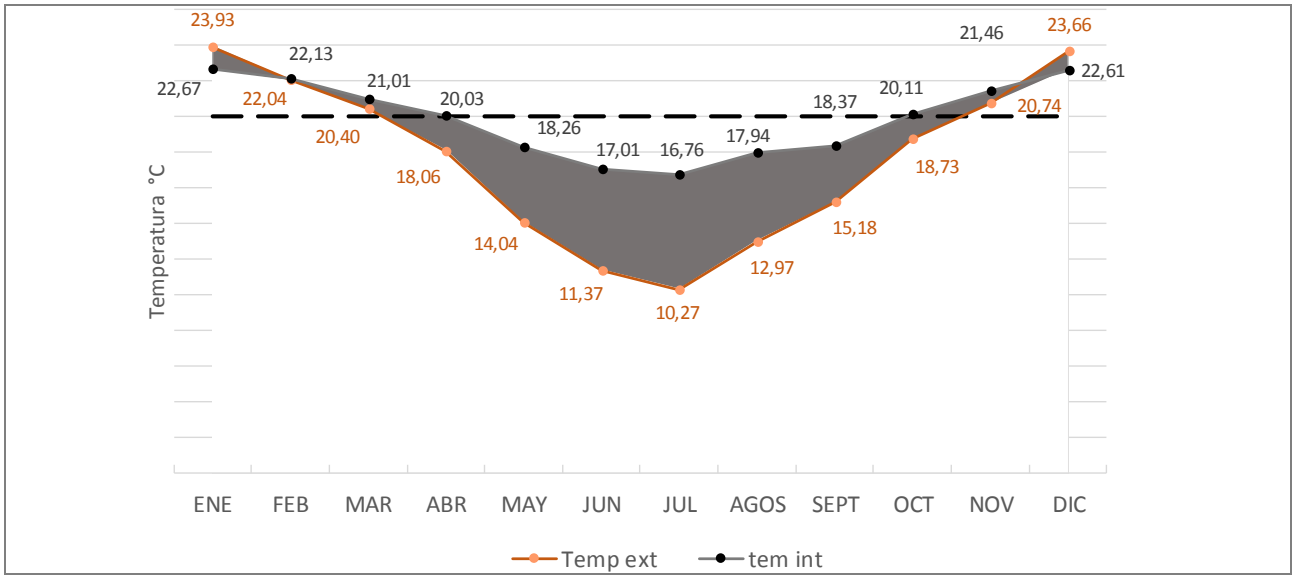
| STL-079 | CU | STEEL FRAME |
|---|---|---|

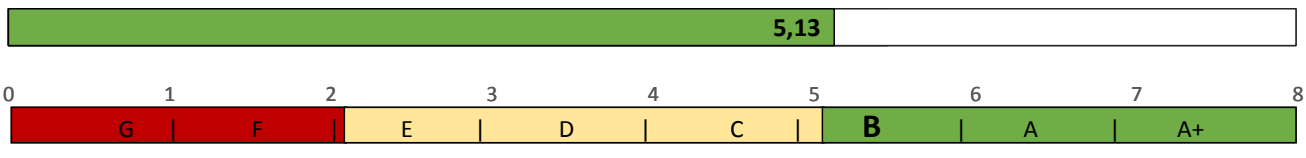
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,35** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,03** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



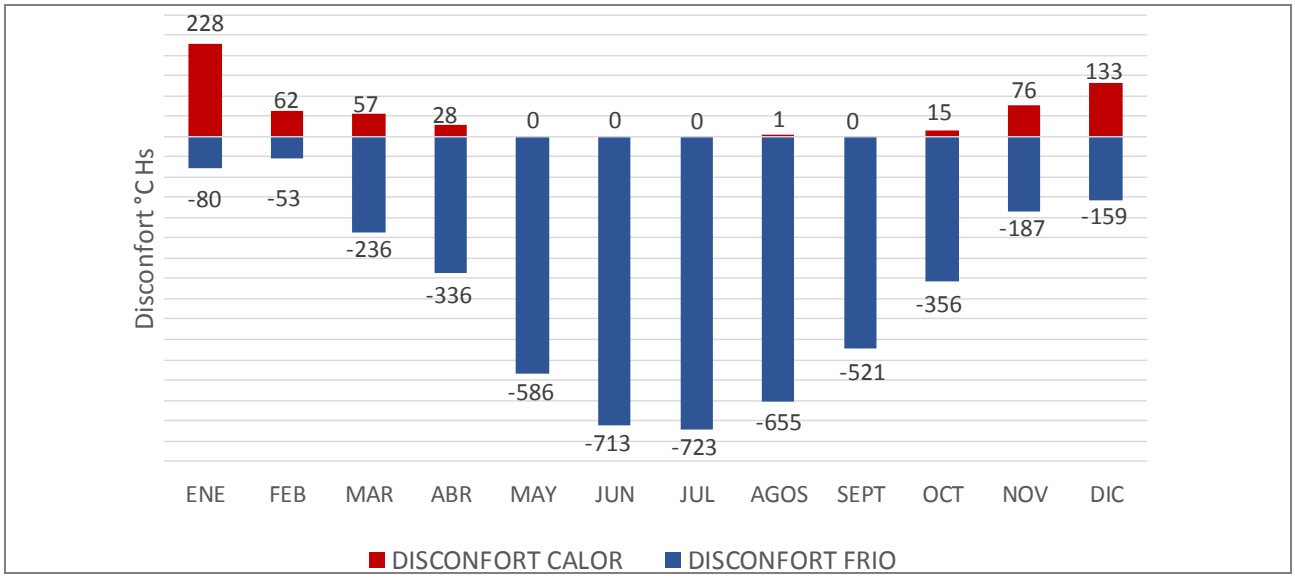




5,13 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-079 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

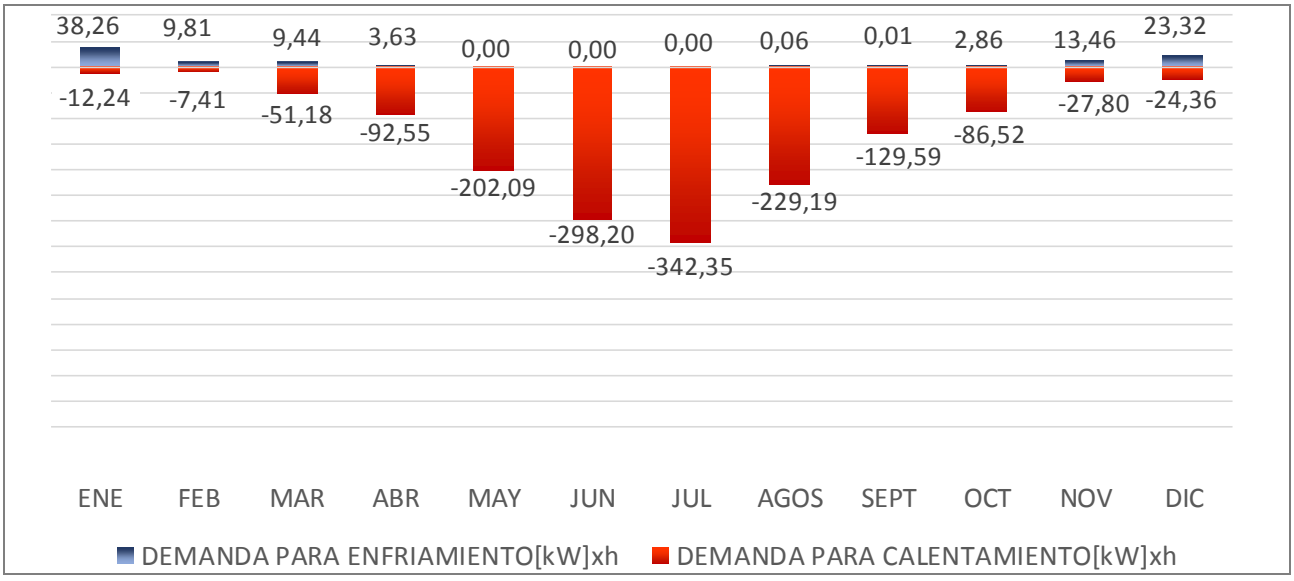
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **599** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.606** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.205** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

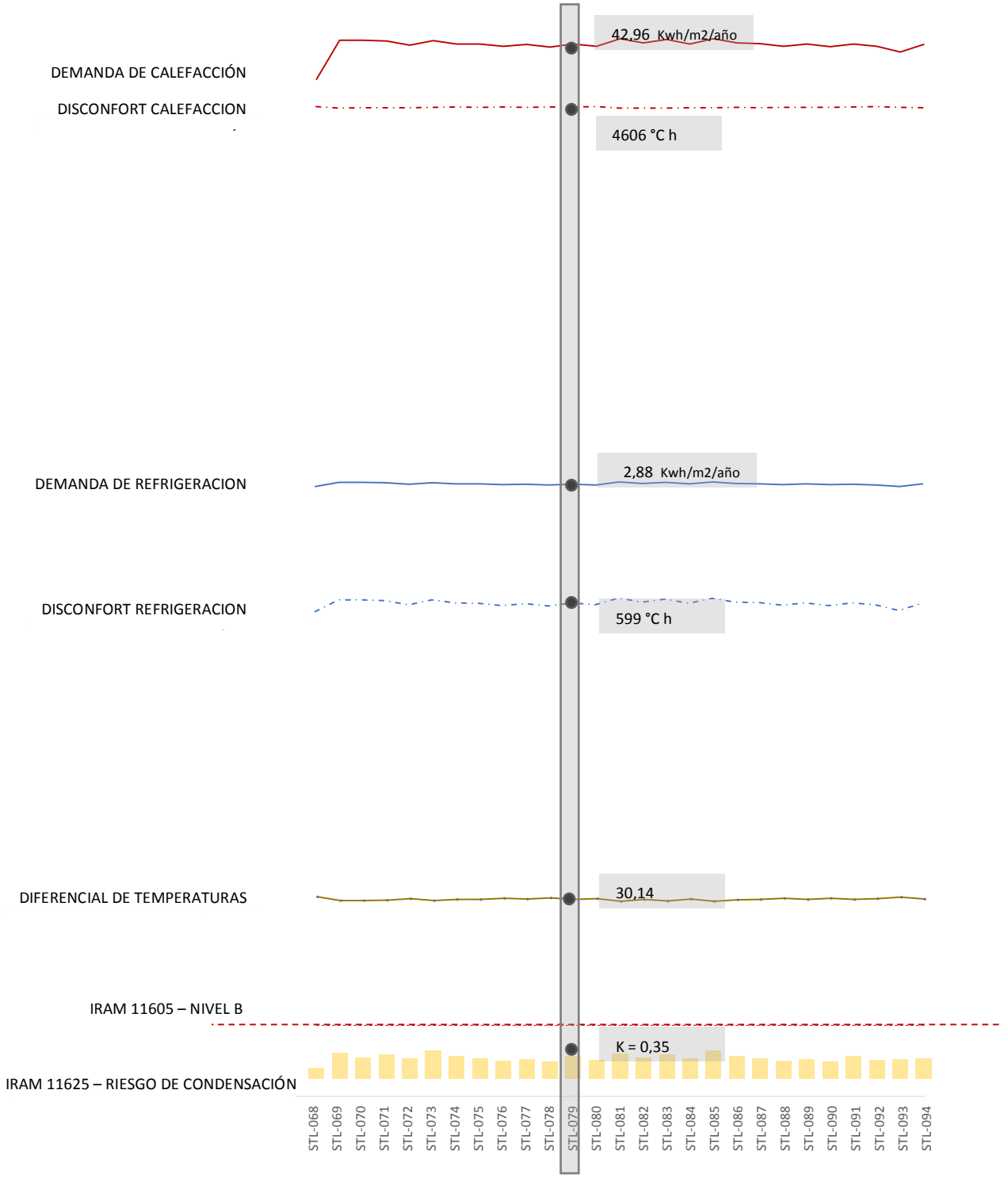



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **100,84** | kWh | 2,88 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.503,48** | kWh | 42,96 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.604,32** | kWh | | kWh/m2/año |

| STL-079 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 032 | N° 032 | N° 066 | N° 070 | N° 110 | N° 069 |



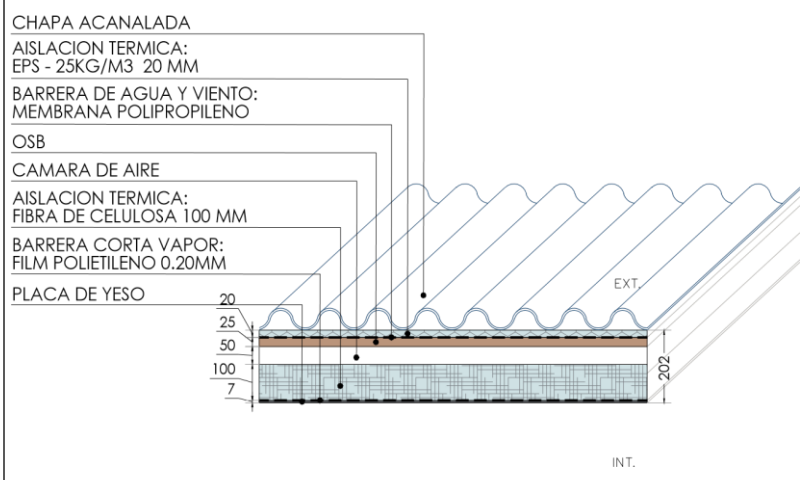

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,35 | 0% | 30,14 | 42,96 | 2,88 | 4606 | 599 |
| INC. FAMILIA | 107,88% | 0% | 99,84% | 100,96% | 97,69% | 100,11% | 100,72% |
| INC. MUNDIAL | 43,21% | 0% | 101,48% | 96,59% | 70,02% | 100,99% | 94,83% |

| STL-080 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN CHAPA DE ZINC, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

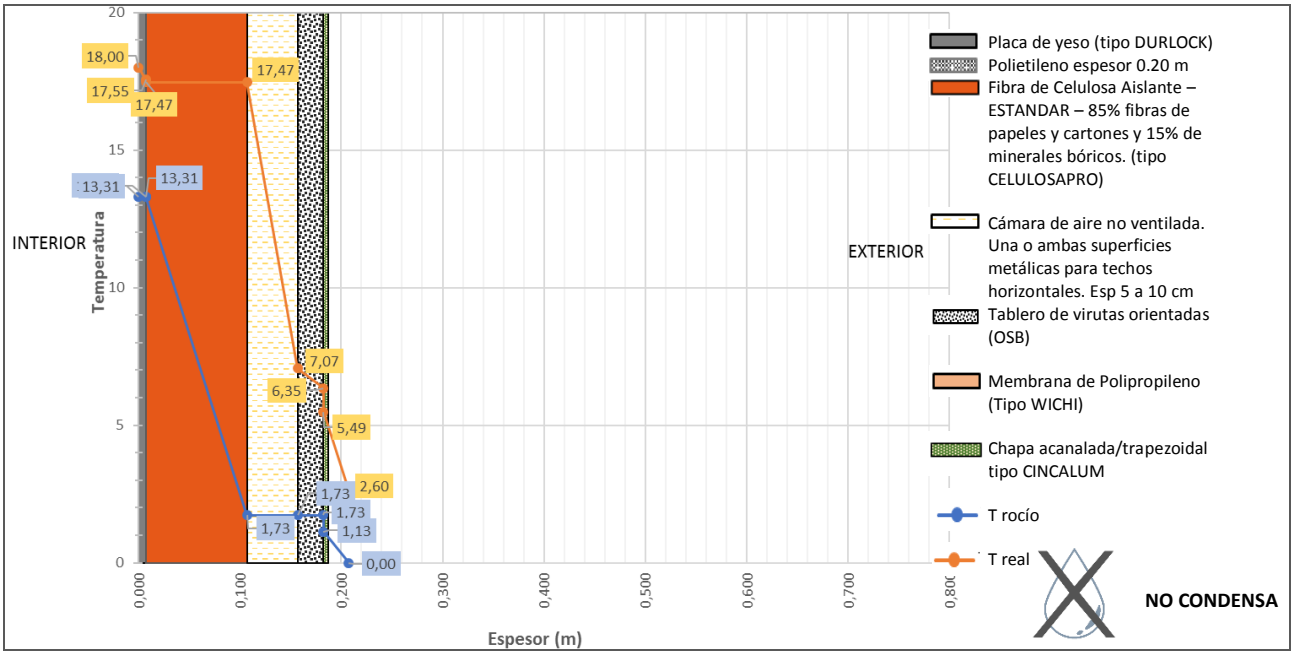
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,28 | 0,29 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



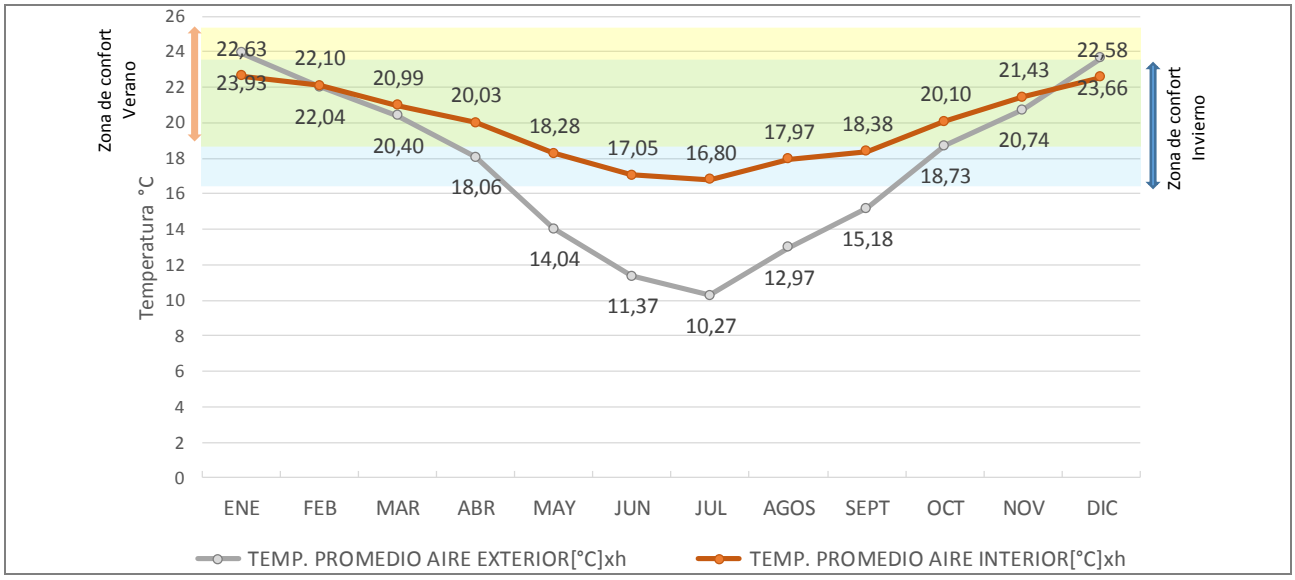

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,5 | 3,7 |
| (s/ Método MacKey y Wright) | Retardo Térmico: horas | 9,7 | 8,8 |
| | Amortiguamiento: | 0,028 | 0,038 |
| s/ Método Raychaudhury y Chaudhury | Retardo Térmico: horas | 8,2 | 5,8 |
| | Amortiguamiento: | 0,118 | 0,216 |

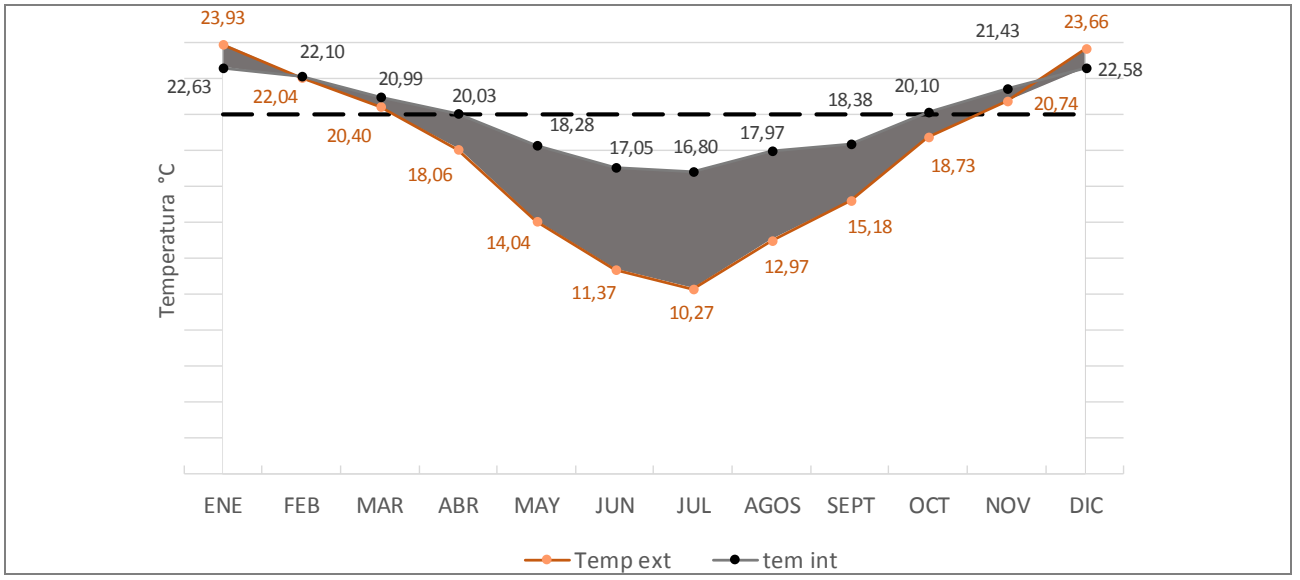
| STL-080 | CU | STEEL FRAME |
|---|---|---|

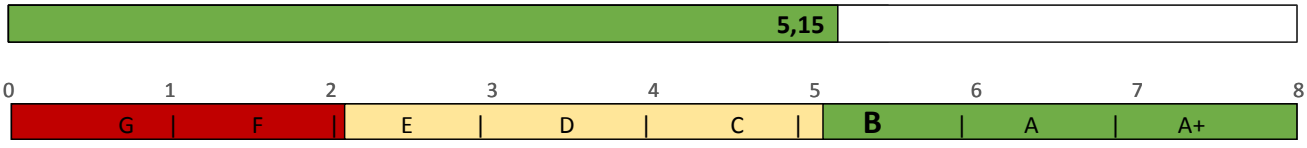
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,21** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,13** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



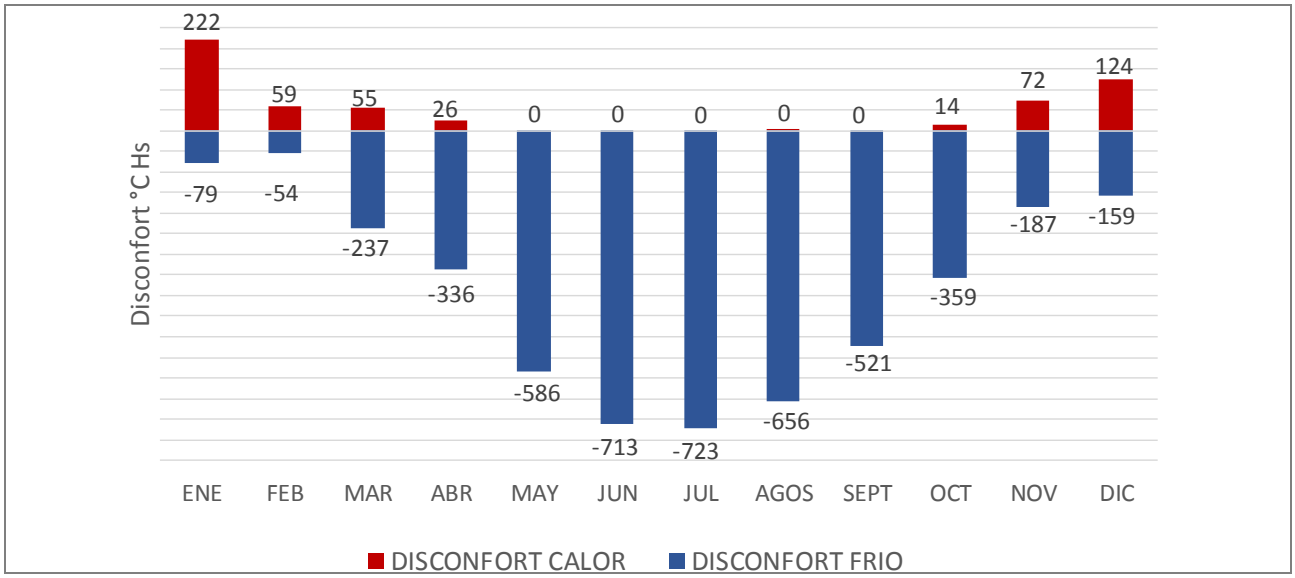




5,15 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-080 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

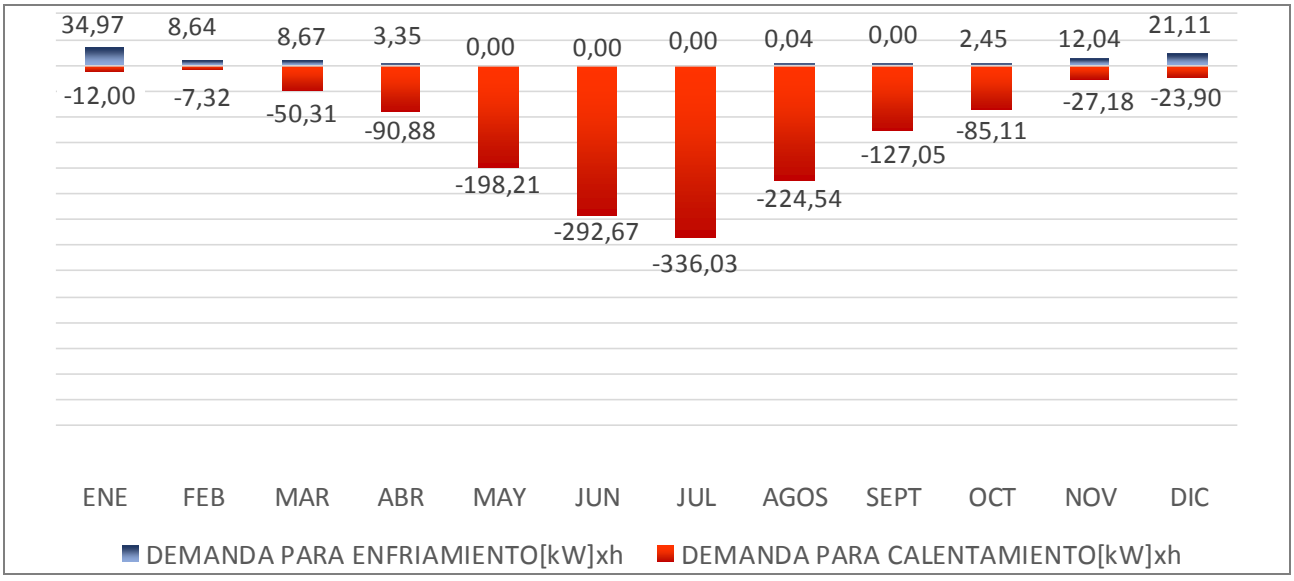
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **572** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.610** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.182** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

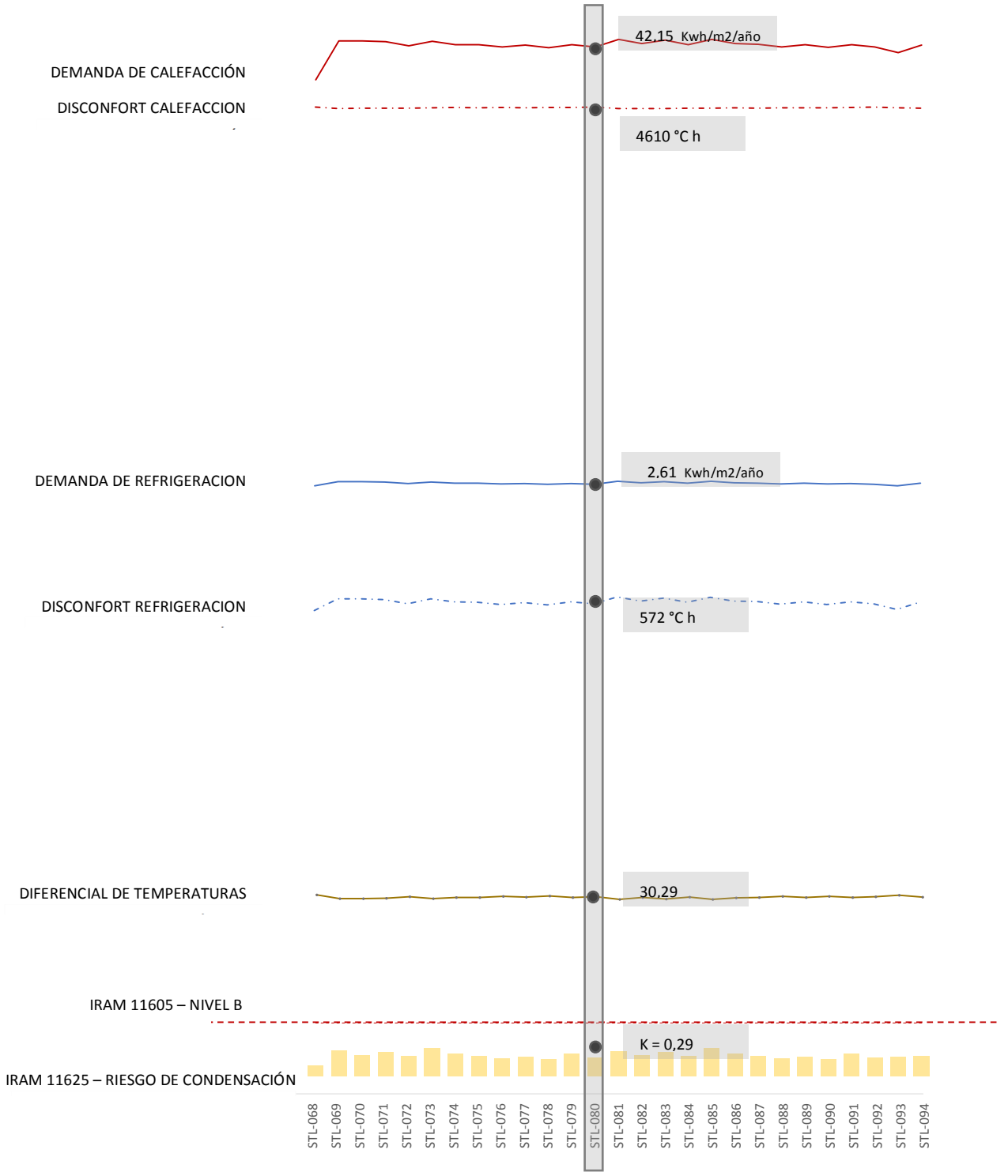



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **91,28** | kWh | 2,61 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.475,20** | kWh | 42,15 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.566,47** | kWh | **44,76** | kWh/m2/año |

| STL-080 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K N° 011 | DIF. TEMP N° 015 | DEM. CALEF. N° 053 | DEM. REFRIG. N° 056 | Hs. DISC. CAL. N° 112 | Hs. DISC. REF. N° 057 |
|---|---|---|---|---|---|---|



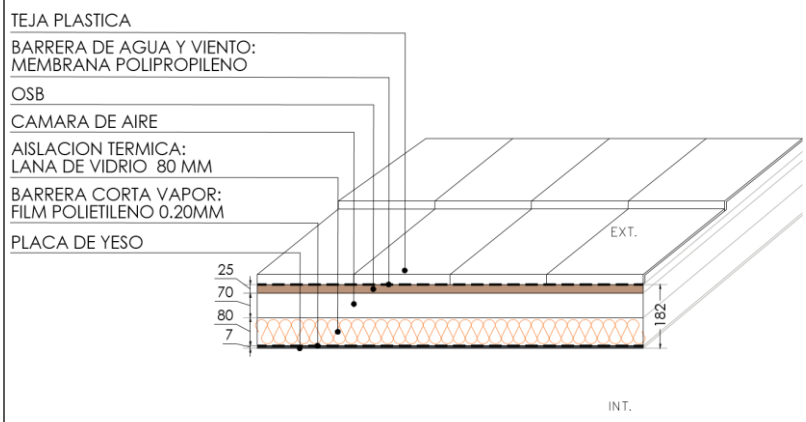

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,29 | | 30,29 | 42,15 | 2,61 | 4610 | 572 |
| INC. FAMILIA | 89,38% | 0% | 100,34% | 99,05% | 88,53% | 100,20% | 96,18% |
| INC. MUNDIAL | 35,80% | 0% | 101,99% | 94,77% | 63,45% | 101,08% | 90,55% |

| STL-081 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 80MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

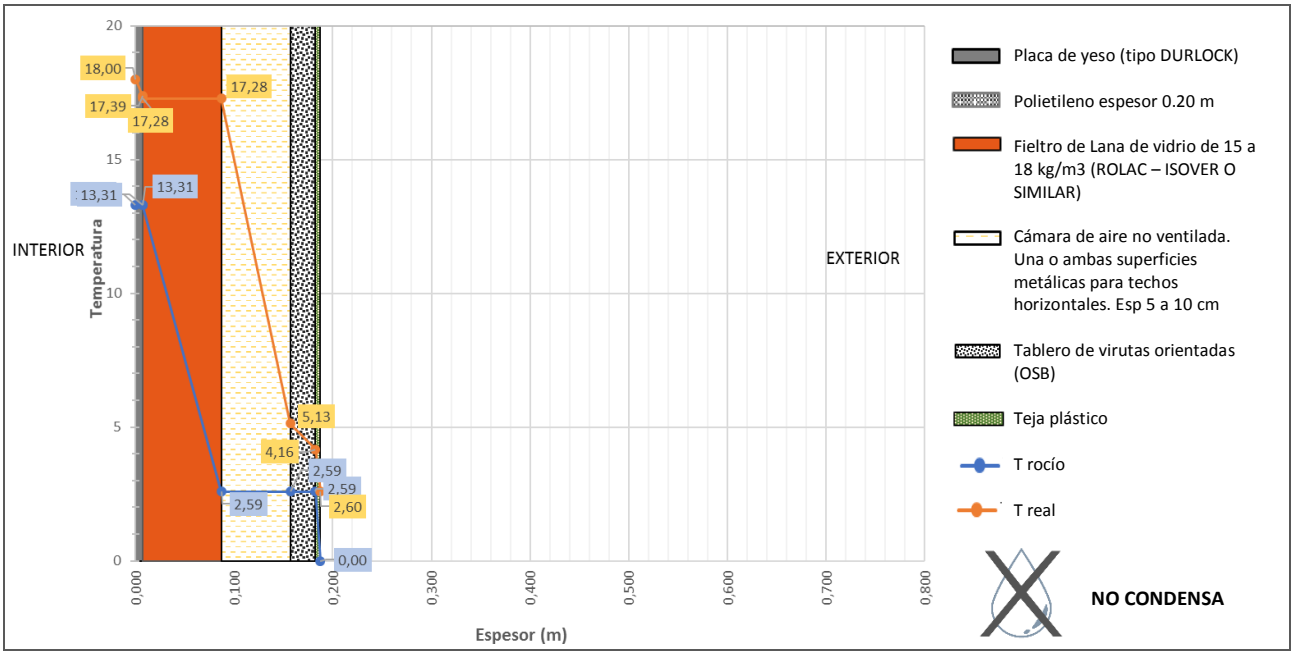
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,38 | 0,39 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



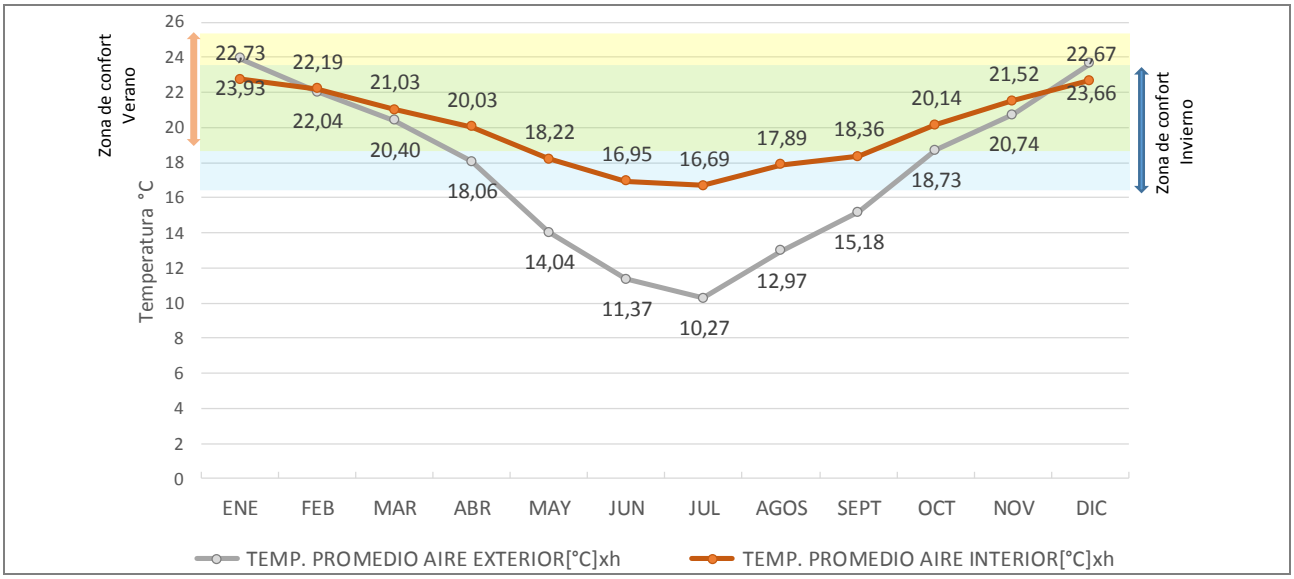

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | ADMISIVIDAD EQUIVALENTE | verano 3,3 | Invierno 3,4 |
|---|---|---|---|
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,0** | **6,1** |
| | **Amortiguamiento:** | 0,107 | 0,105 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **5,9** | **3,0** |
| | **Amortiguamiento:** | 0,215 | 0,453 |

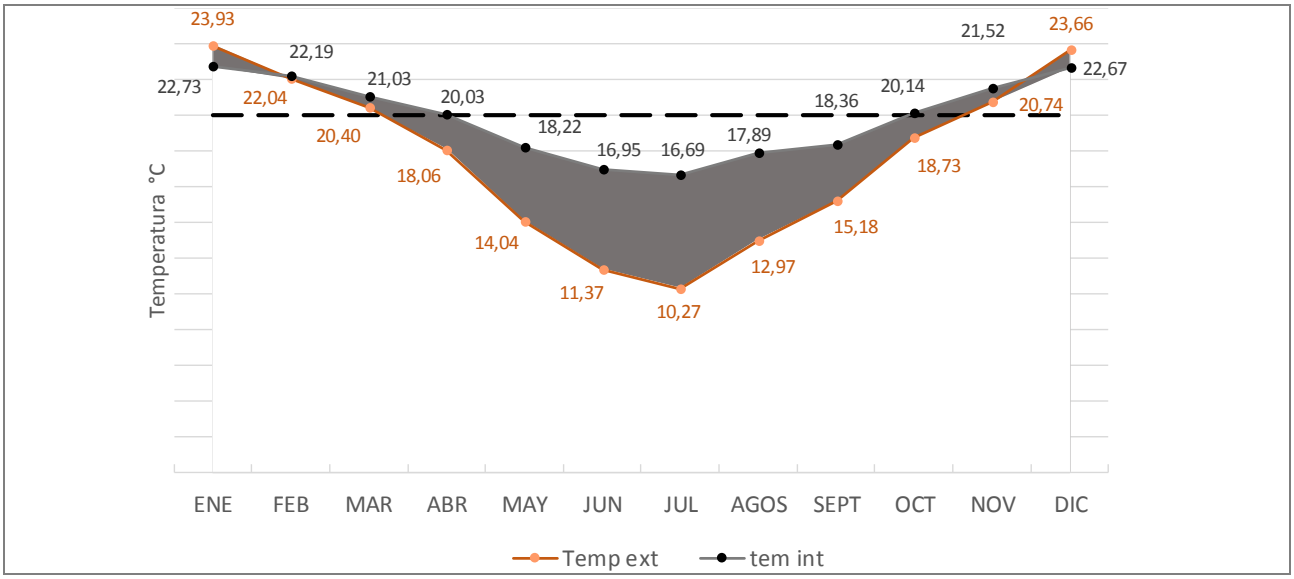
| STL-081 | CU | STEEL FRAME |
|---|---|---|

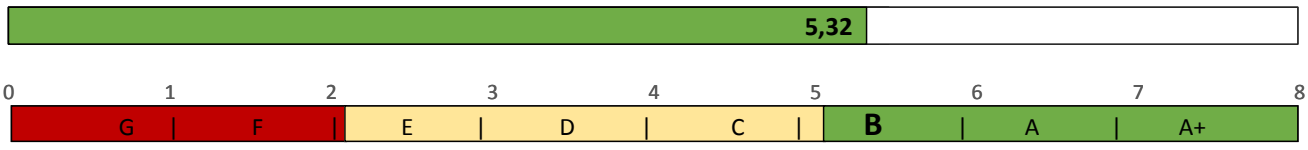
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,70** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,81** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



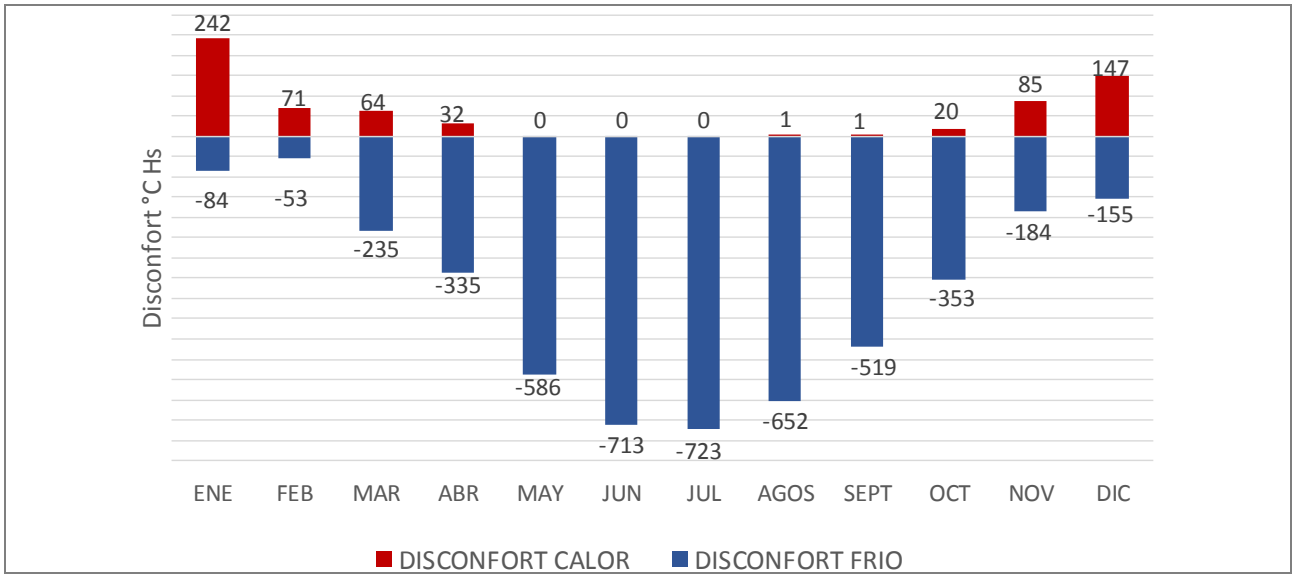




5,08 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-081 | CU | STEEL FRAME |
|---|---|---|

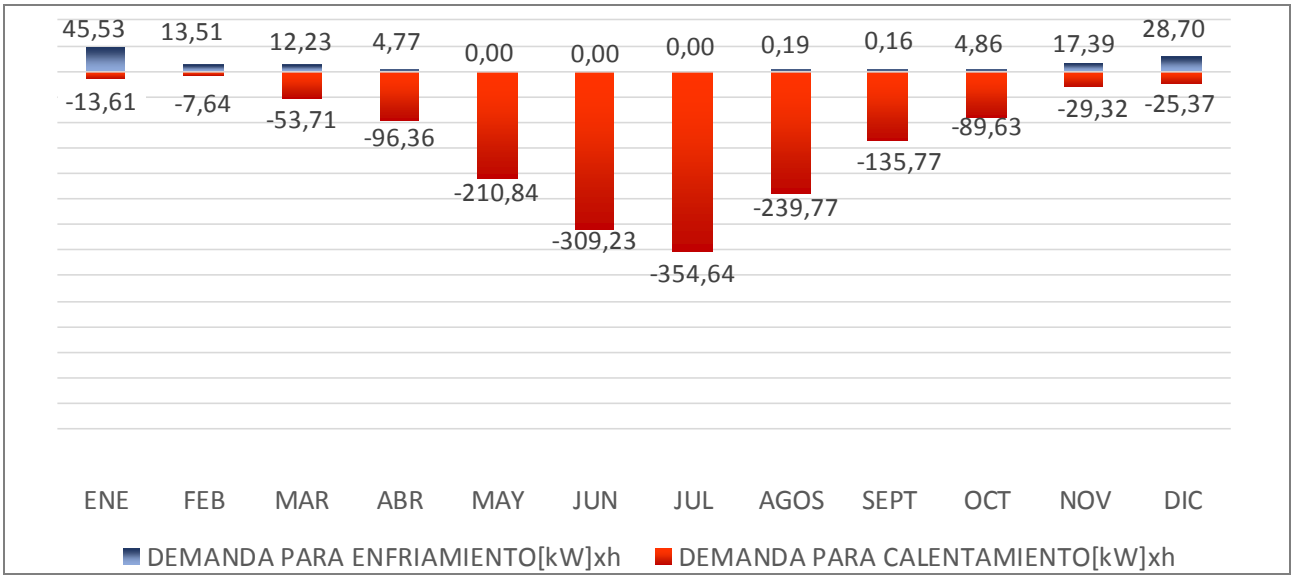
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **664** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.593** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.257** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

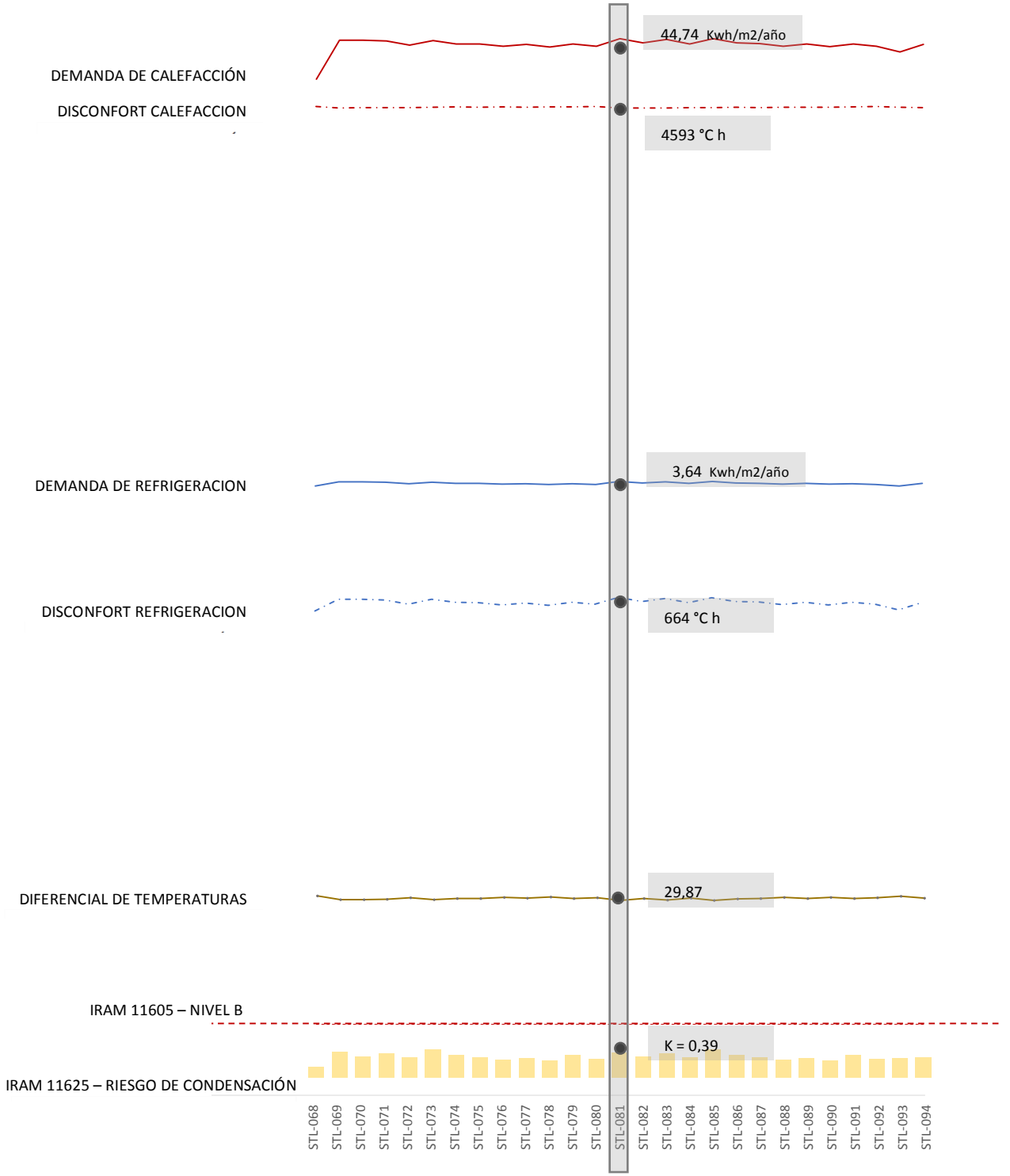



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **127,34** | kWh | 3,64 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.565,90** | kWh | 44,74 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.693,24** | kWh | **48,38** | kWh/m2/año |

| STL-081 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 042 | N° 056 | N° 091 | N° 100 | N° 086 | N° 093 |



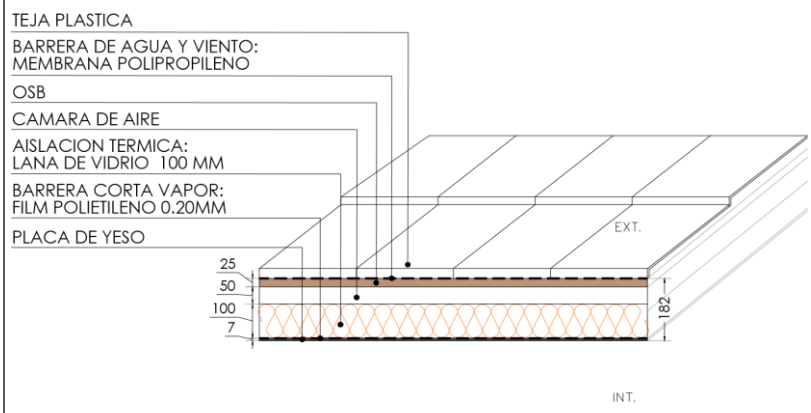

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,39 | 0% | 29,87 | 44,74 | 3,64 | 4593 | 664 |
| INC. FAMILIA | 120,21% | 0% | 98,94% | 105,14% | 123,47% | 99,83% | 111,65% |
| INC. MUNDIAL | 48,15% | 0% | 100,57% | 100,59% | 88,49% | 100,70% | 105,12% |

| STL-082 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: LANA DE VIDRIO 100MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

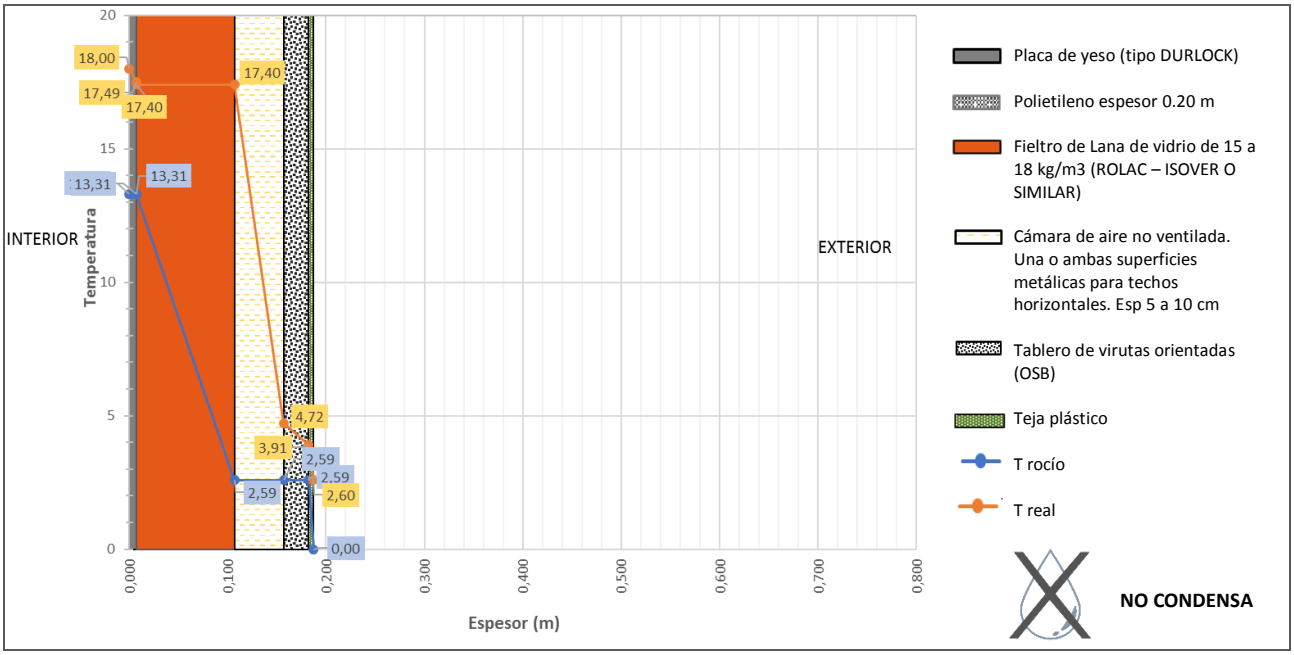
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,32 | 0,33 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



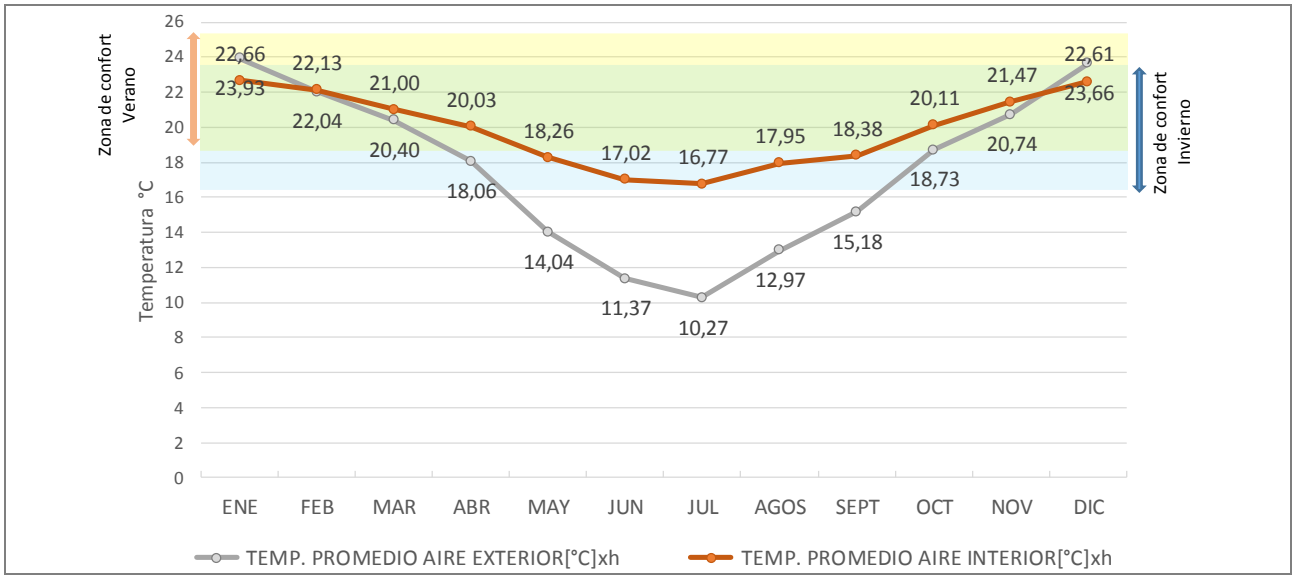

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,7 | 2,8 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,6** | **6,7** |
| | **Amortiguamiento:** | 0,086 | 0,084 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,4** | **3,3** |
| | **Amortiguamiento:** | 0,185 | 0,426 |

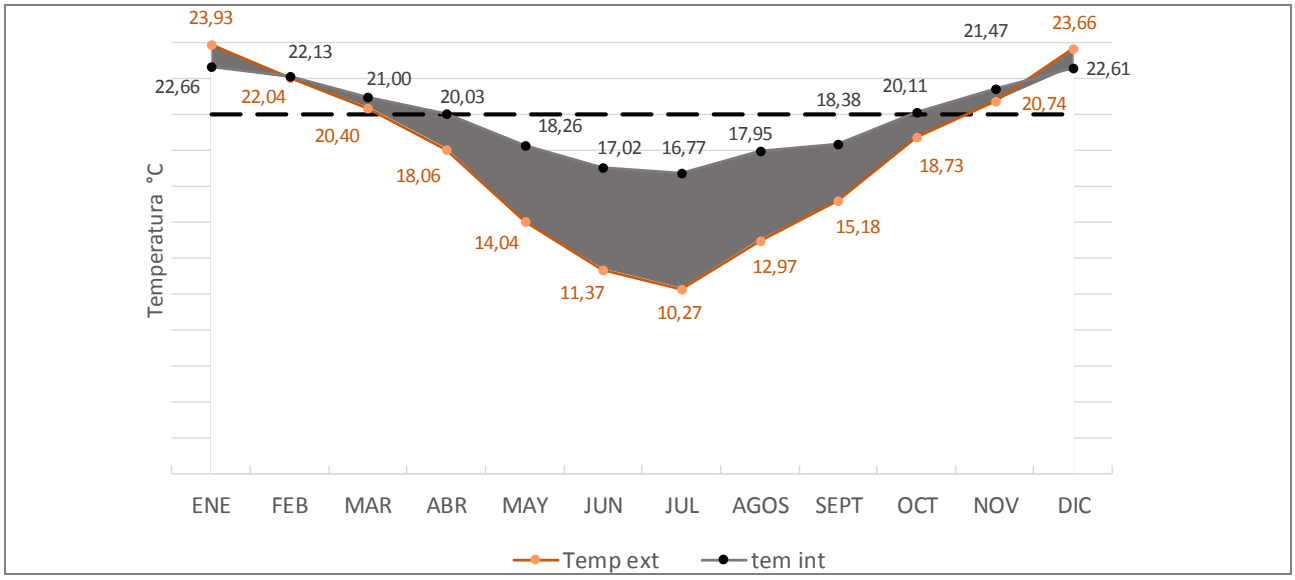
| STL-082 | CU | STEEL FRAME |
|---|---|---|

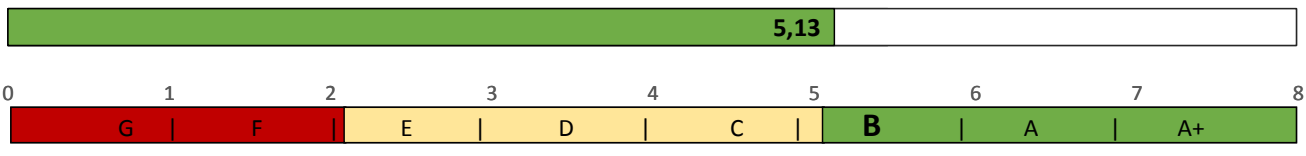
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,47** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,99** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



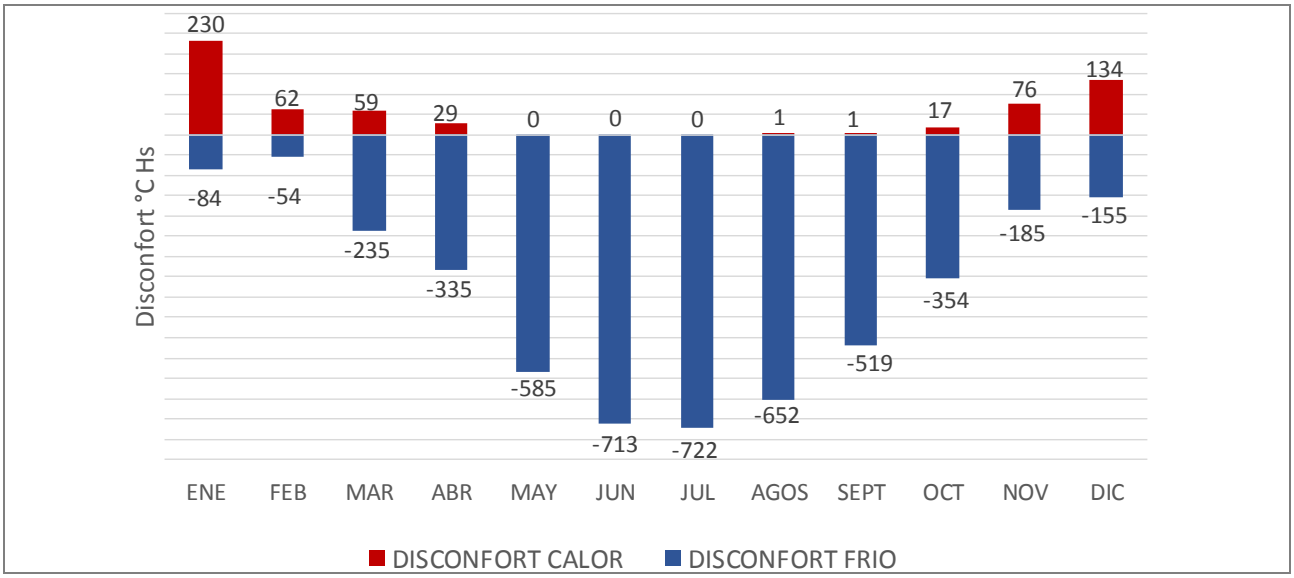




5,13 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-082 | CU | STEEL FRAME |
|---|---|---|

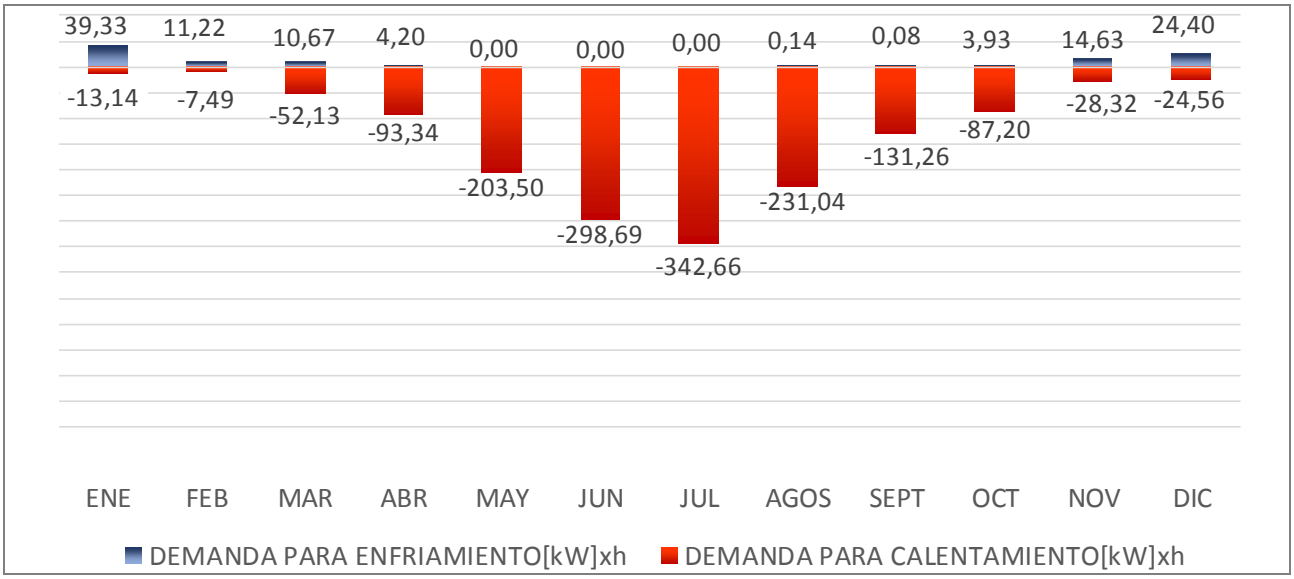
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **608** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.592** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.199** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

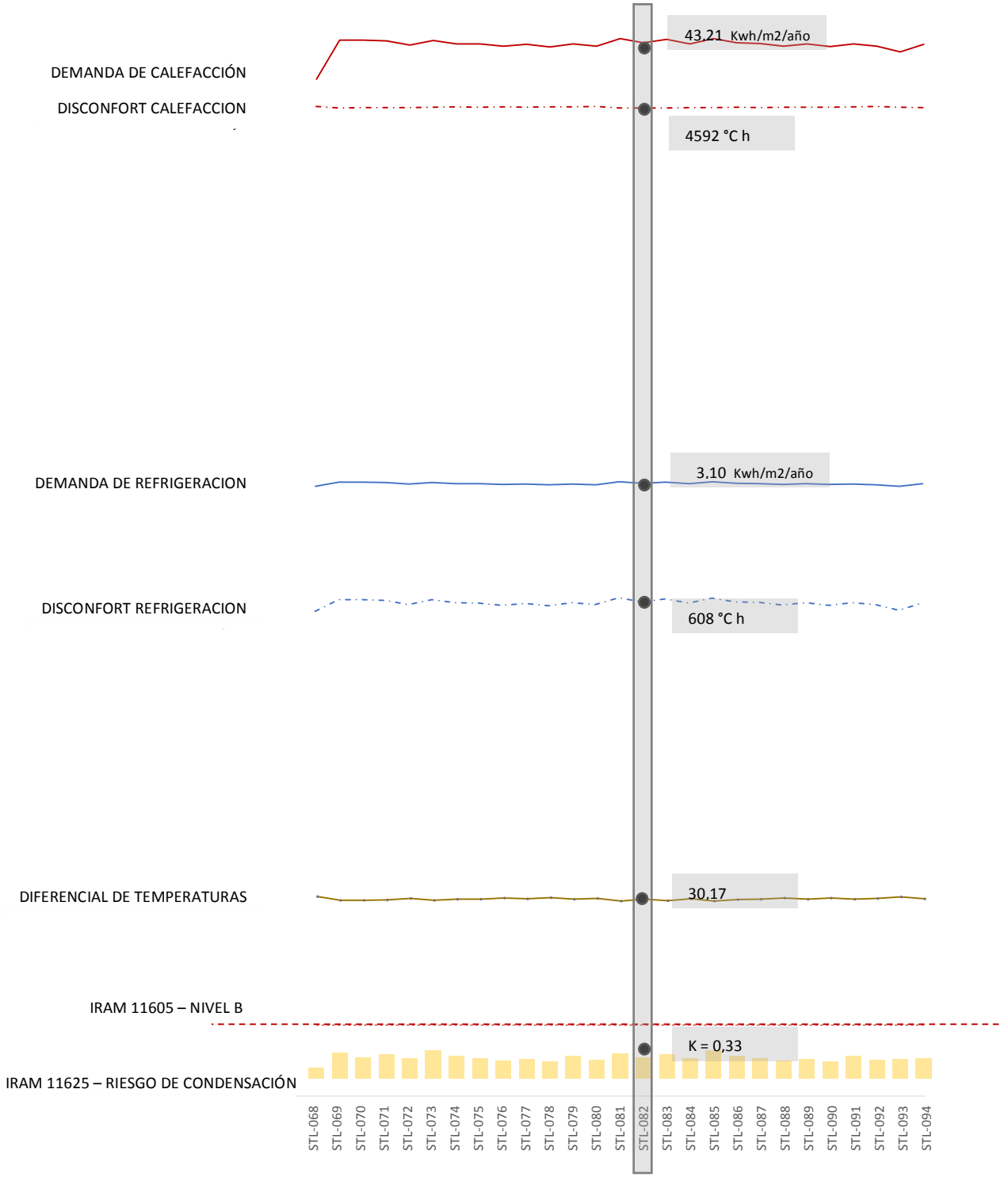



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **108,60** | kWh | 3,10 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.513,33** | kWh | 43,24 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.621,94** | kWh | **46,34** | kWh/m2/año |

| STL-082 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 028 | N° 027 | N° 071 | N° 083 | N° 084 | N° 073 |



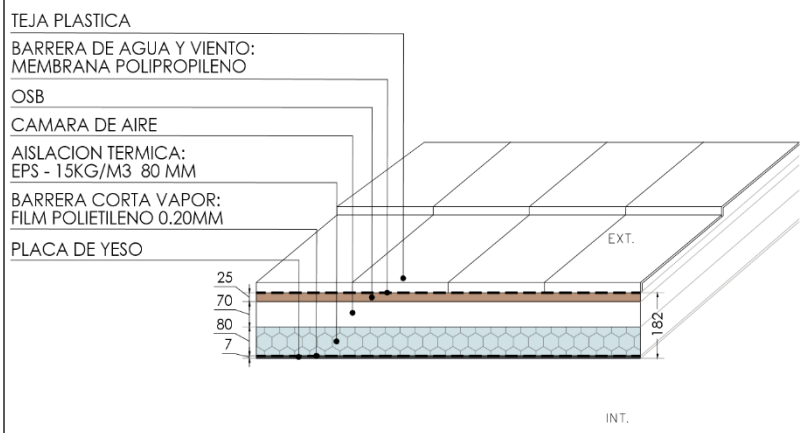

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,33 | 0% | 30,17 | 43,24 | 3,1 | 4592 | 608 |
| INC. FAMILIA | 101,71% | 0% | 99,94% | 101,62% | 105,15% | 99,81% | 102,23% |
| INC. MUNDIAL | 40,74% | 0% | 101,58% | 97,22% | 75,37% | 100,68% | 96,25% |

| STL-083 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 80MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

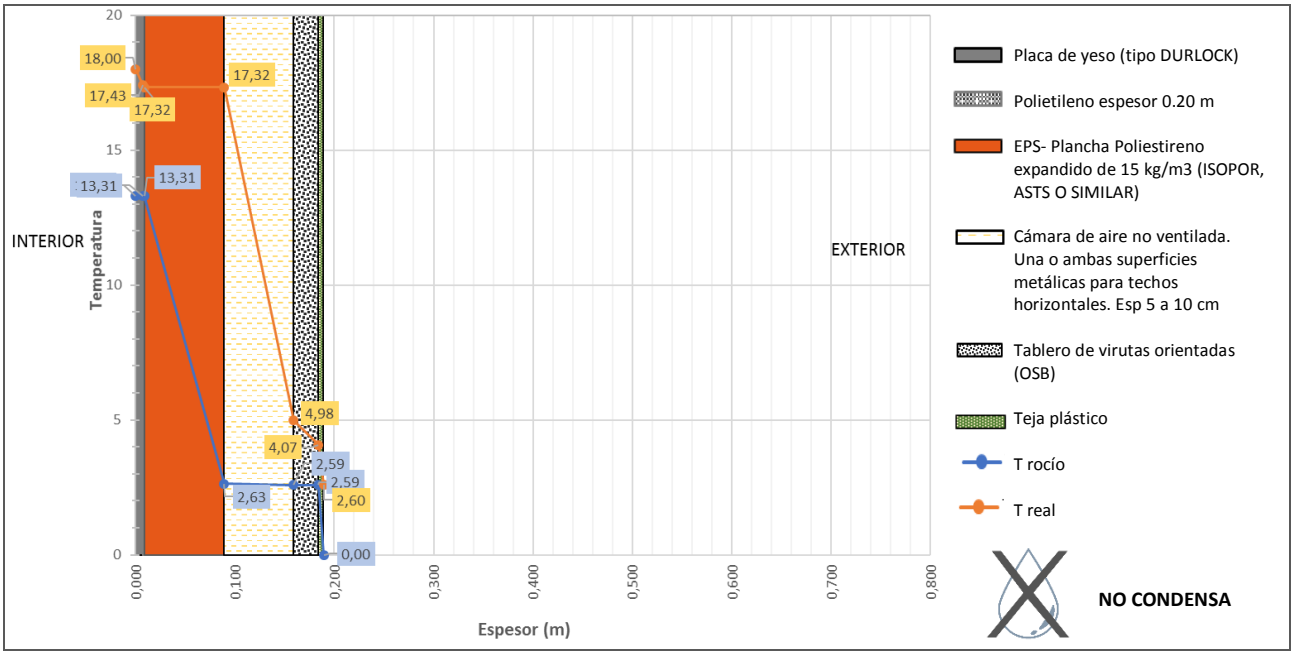
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,36 | 0,37 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



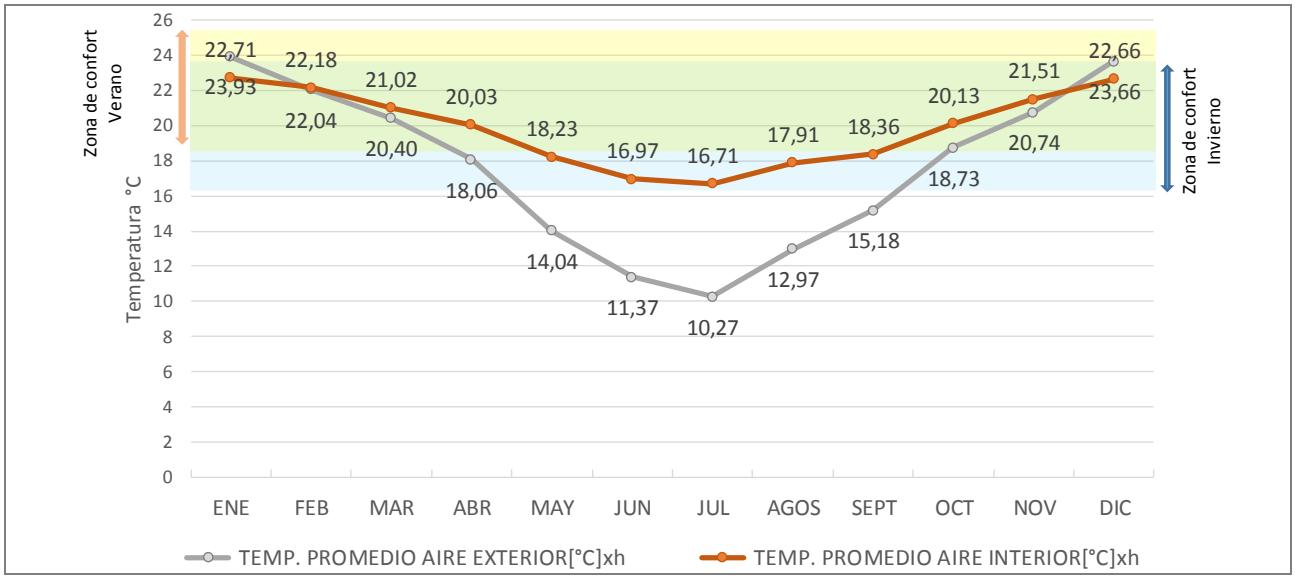

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,1 | 3,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,2** | **6,3** |
| | **Amortiguamiento:** | 0,100 | 0,097 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,1** | **3,1** |
| | **Amortiguamiento:** | 0,204 | 0,444 |

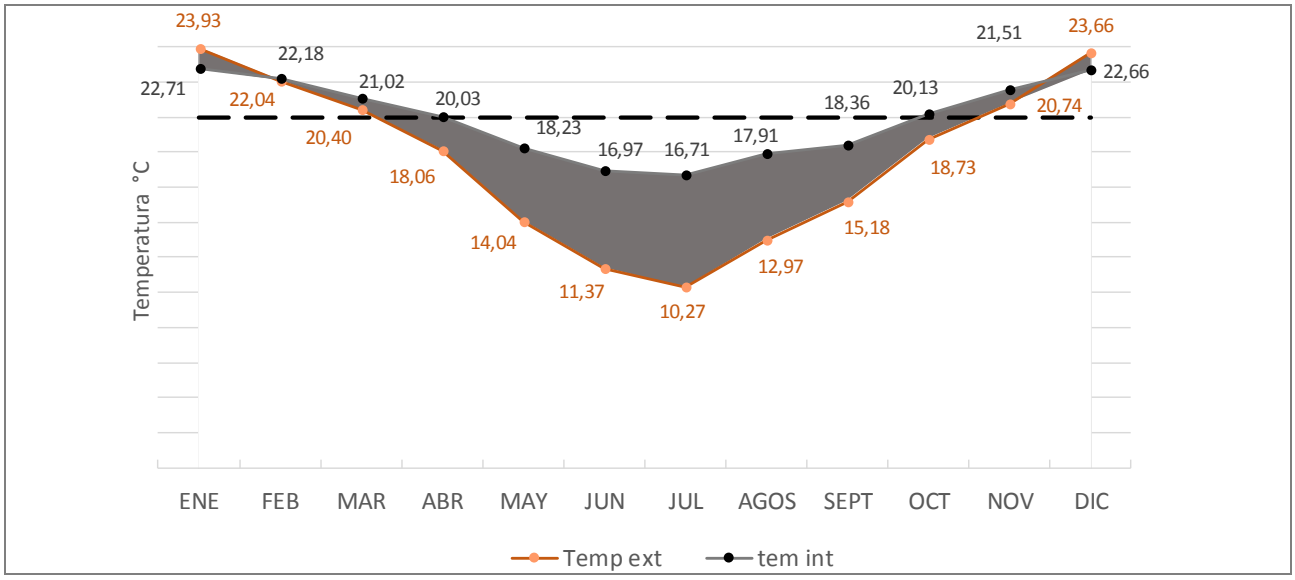
| STL-083 | CU | STEEL FRAME |
|---|---|---|

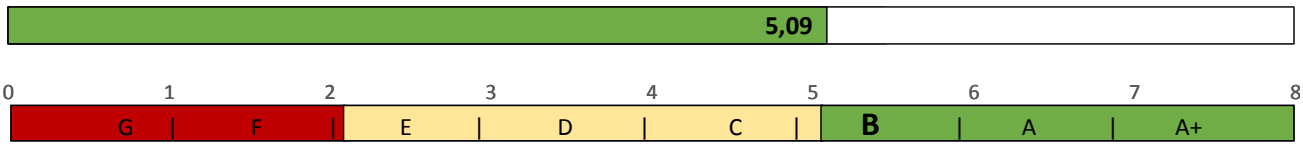
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,64** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,85** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



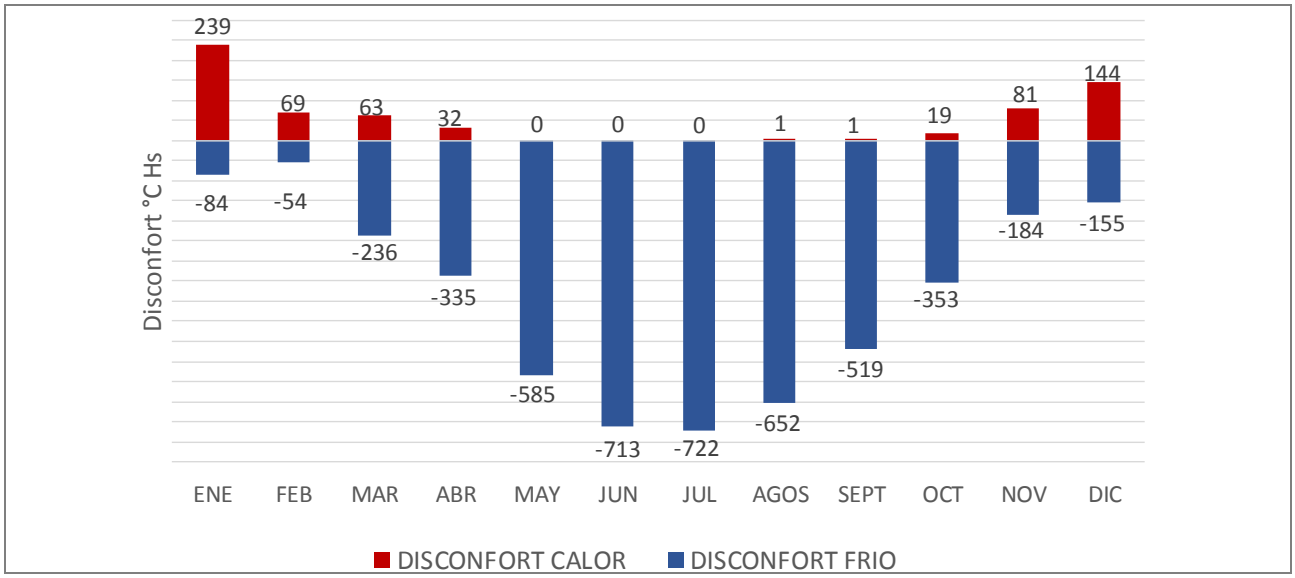




5,09 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-083 | CU | STEEL FRAME |
|---|---|---|

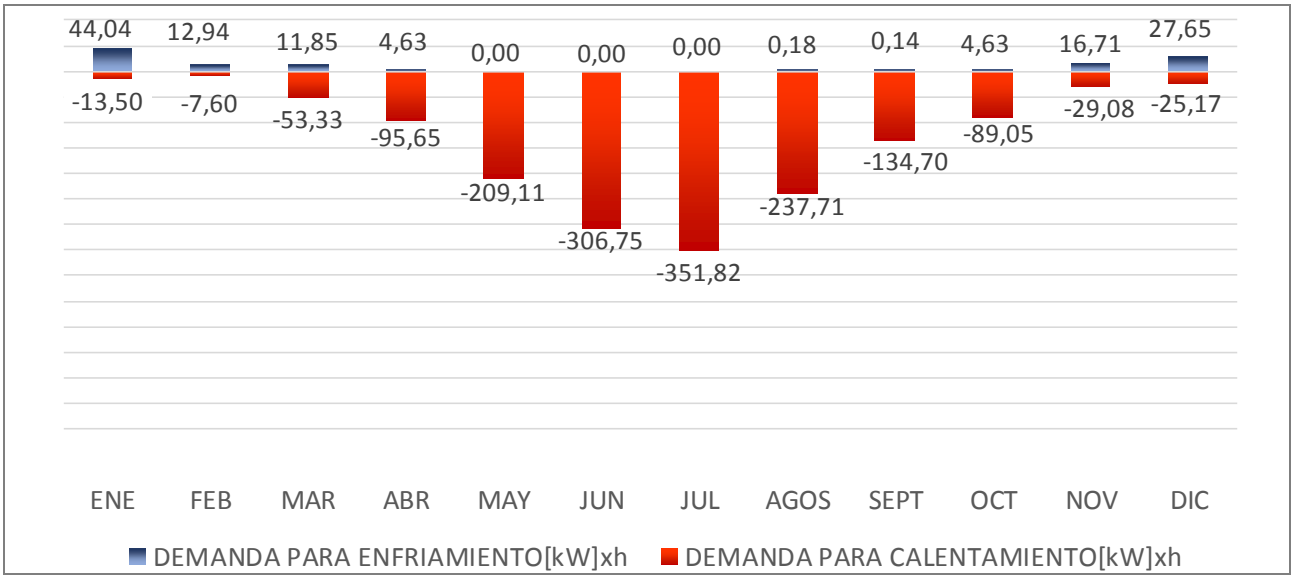
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **648** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.593** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.241** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

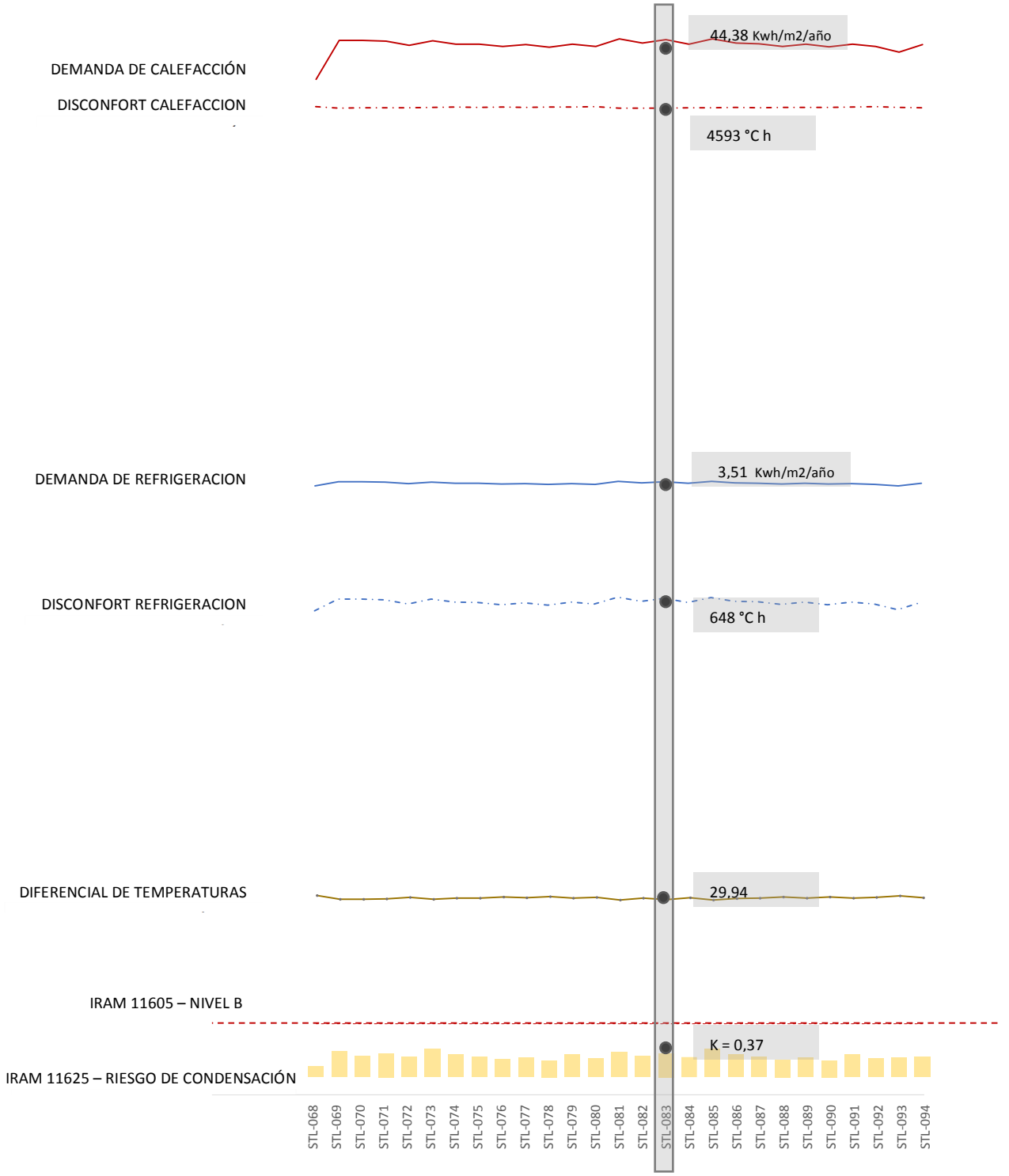



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **122,76** | kWh | 3,51 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.553,46** | kWh | 44,38 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.676,22** | kWh | **47,89** | kWh/m2/año |

| STL-083 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 038 | N° 047 | N° 086 | N° 096 | N° 087 | N° 088 |



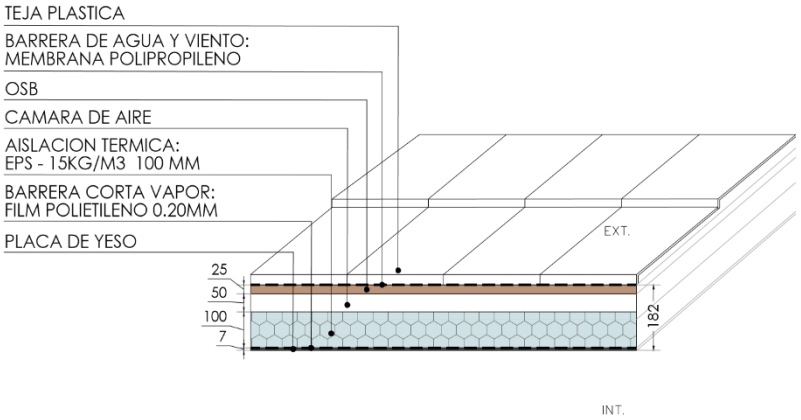

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,37 | 0% | 29,94 | 44,38 | 3,51 | 4593 | 648 |
| INC. FAMILIA | 114,04% | 0% | 99,18% | 104,29% | 119,06% | 99,83% | 108,96% |
| INC. MUNDIAL | 45,68% | 0% | 100,81% | 99,78% | 85,33% | 100,70% | 102,59% |

| STL-084 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: EPS 100MM-DENSIDAD 15KGM3, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

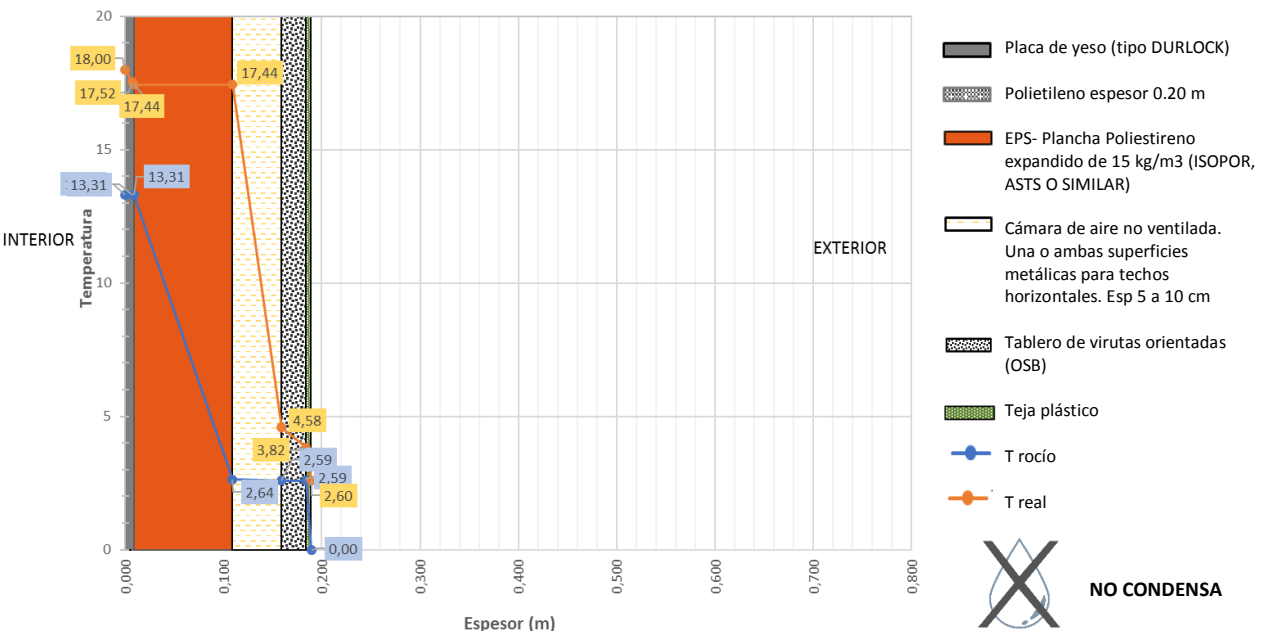
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,30 | 0,31 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



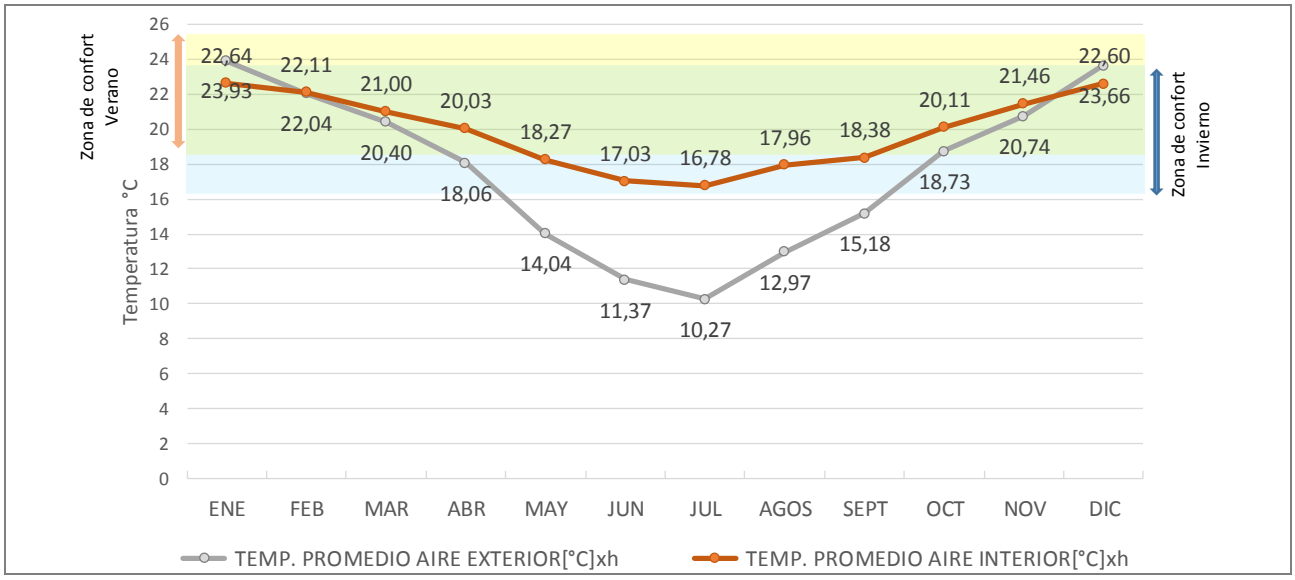

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,6 | 2,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,9** | **6,9** |
| | **Amortiguamiento:** | 0,079 | 0,077 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,7** | **3,4** |
| | **Amortiguamiento:** | 0,175 | 0,416 |

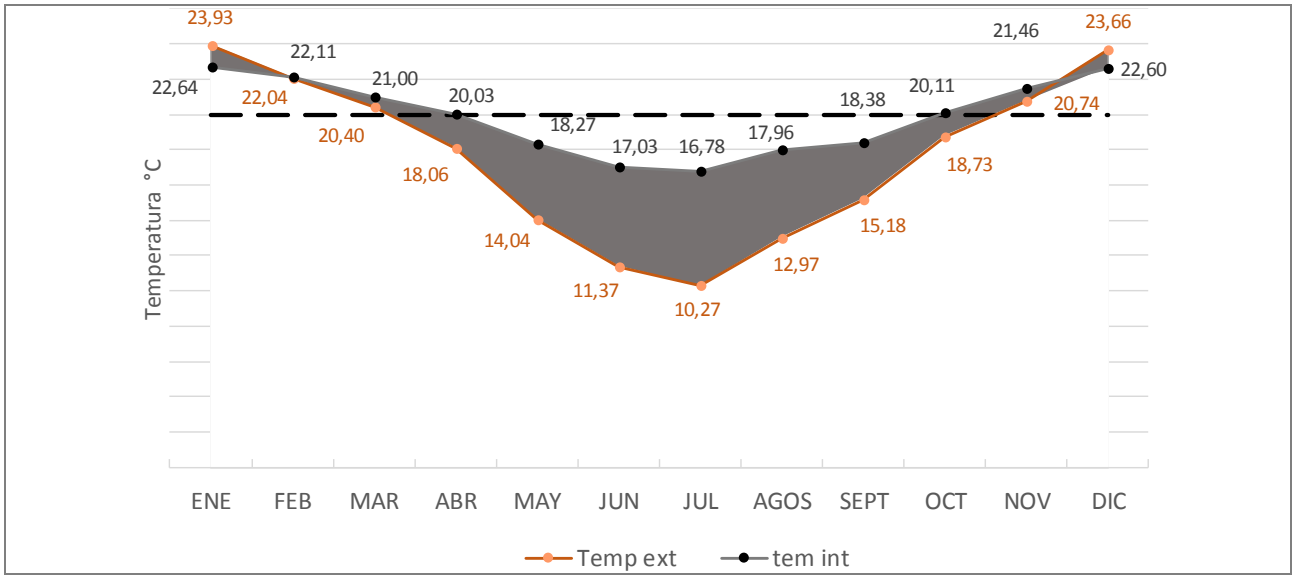
| STL-084 | CU | STEEL FRAME |
|---|---|---|

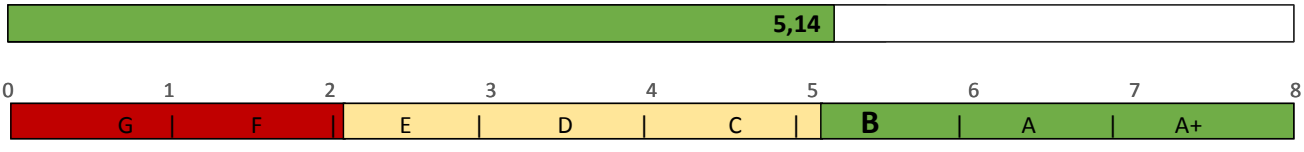
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,43** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,02** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



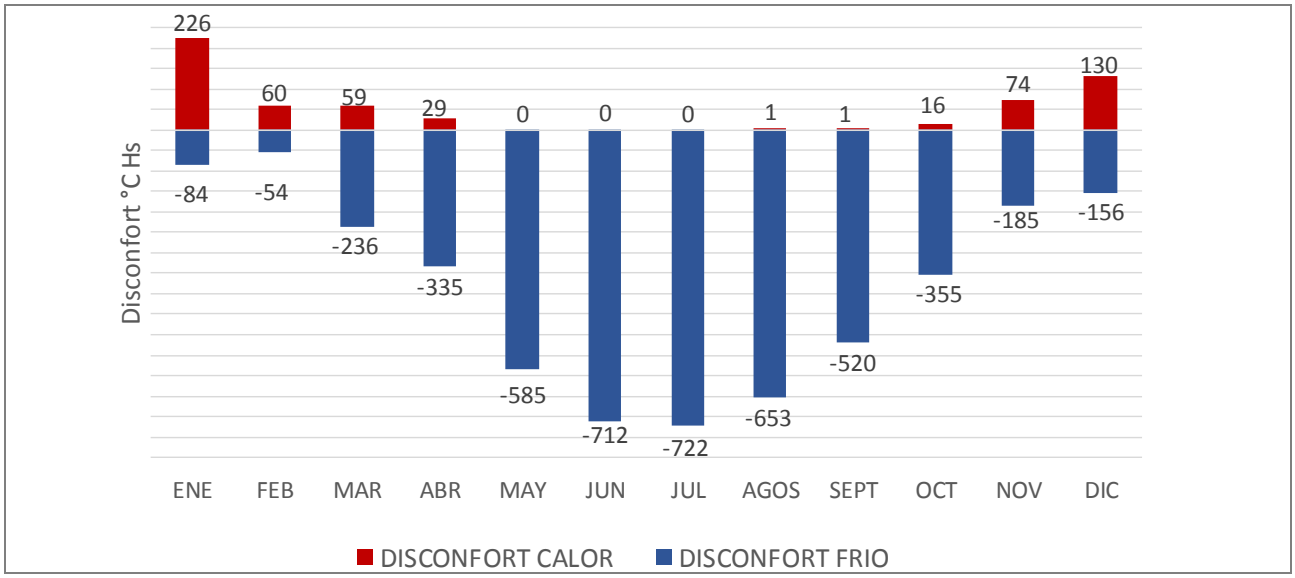




5,14 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-084 | CU | STEEL FRAME |
|---|---|---|

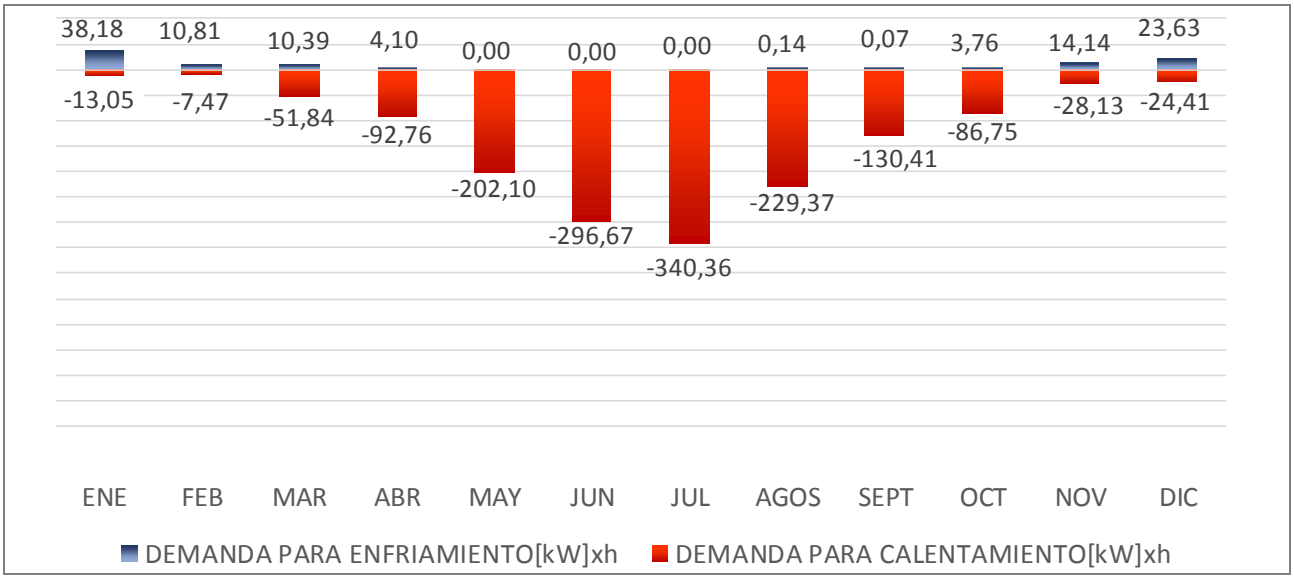
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **595** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.596** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.191** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

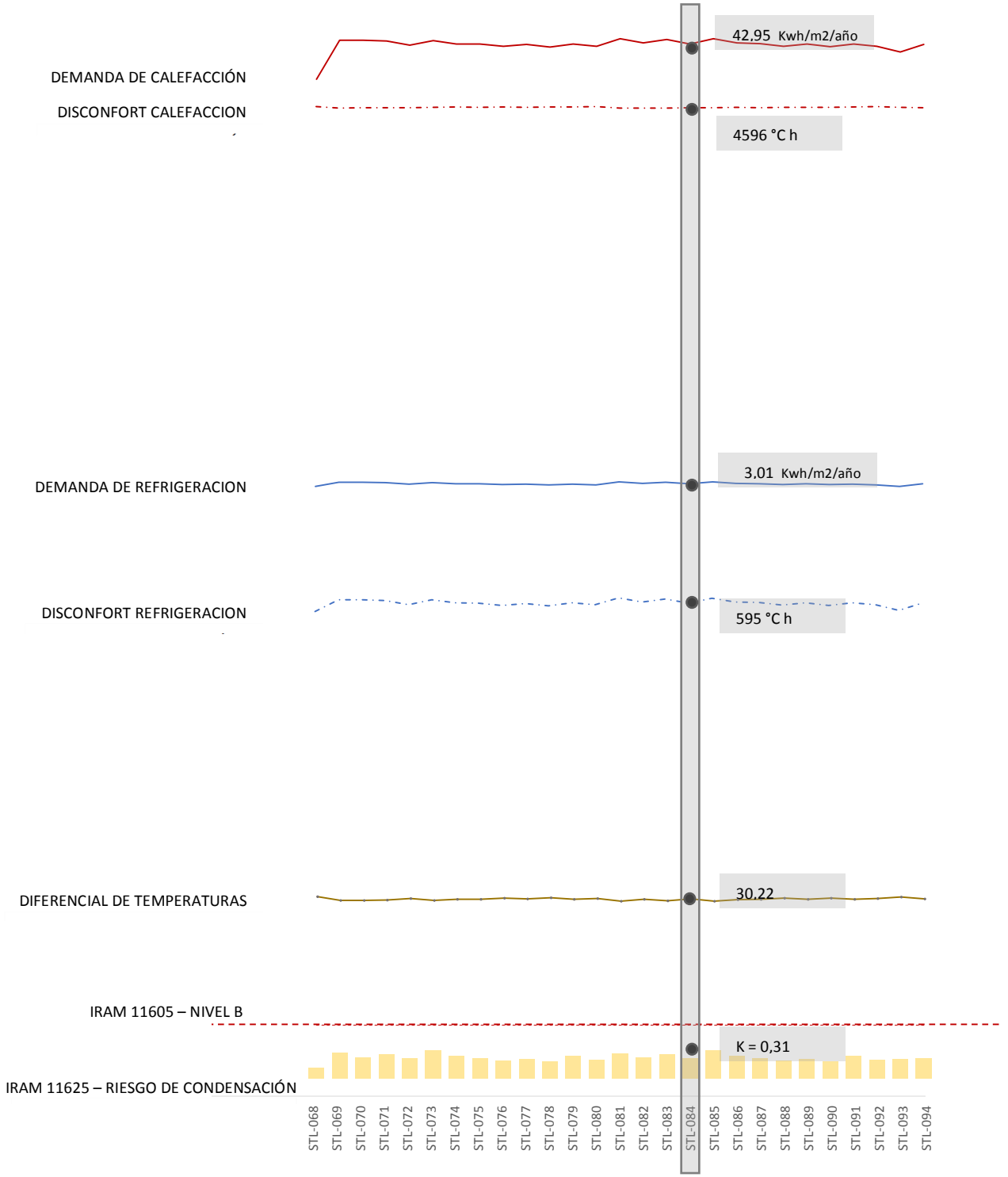



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **105,22** | kWh | 3,01 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.503,32** | kWh | 42,95 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.608,54** | kWh | **45,96** | kWh/m2/año |

| STL-084 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 019 | N° 021 | N° 064 | N° 081 | N° 090 | N° 065 |



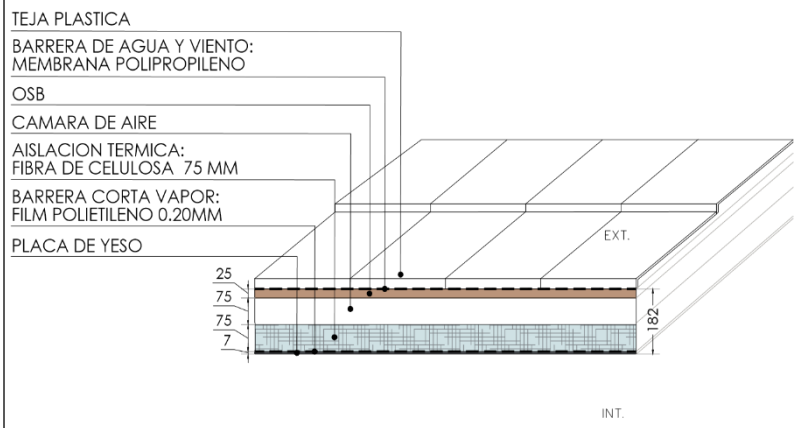

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,31 | 0% | 30,22 | 42,95 | 3,01 | 4596 | 595 |
| INC. FAMILIA | 95,55% | 0% | 100,10% | 100,93% | 102,10% | 99,90% | 100,04% |
| INC. MUNDIAL | 38,27% | 0% | 101,75% | 96,56% | 73,18% | 100,77% | 94,20% |

| STL-085 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 75MM, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

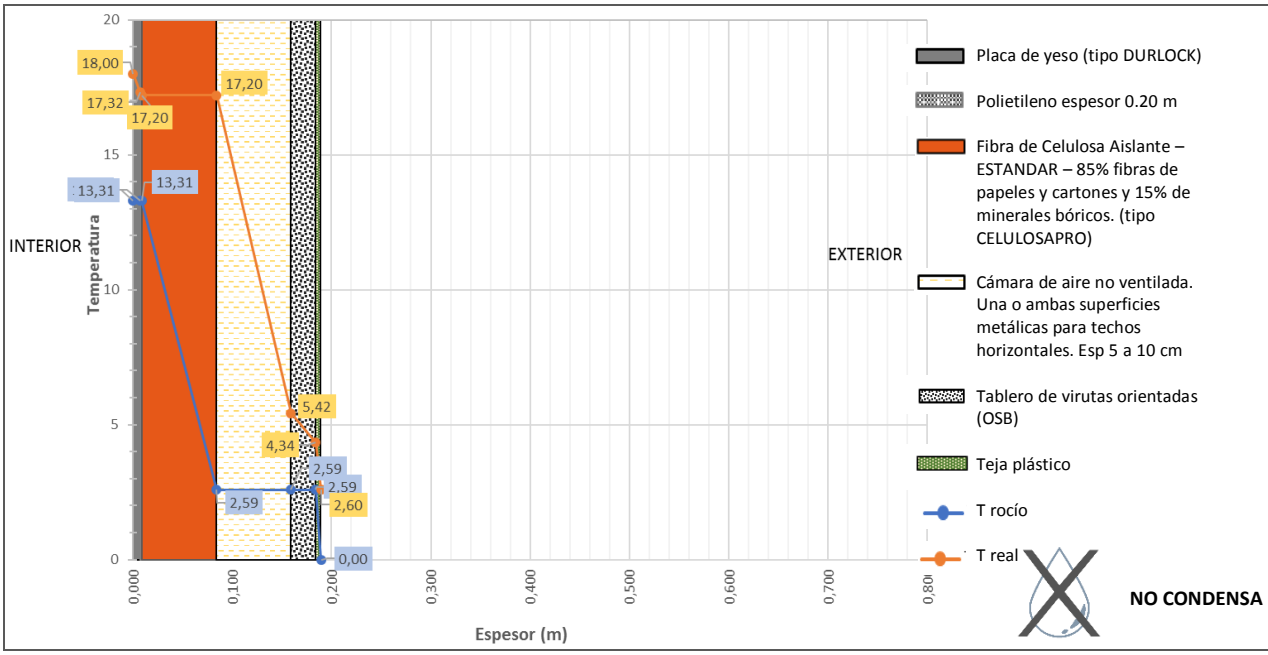
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,43 | 0,44 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



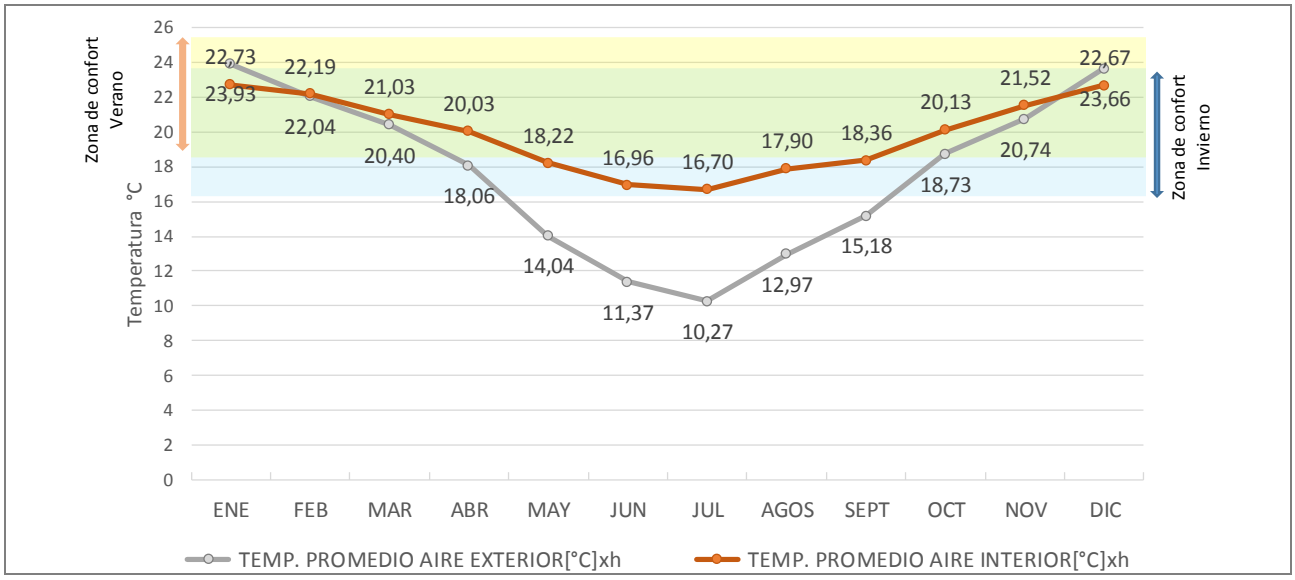

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 5,2 | 5,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,7** | **6,8** |
| | **Amortiguamiento:** | 0,083 | 0,081 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,1** | **3,9** |
| | **Amortiguamiento:** | 0,204 | 0,358 |

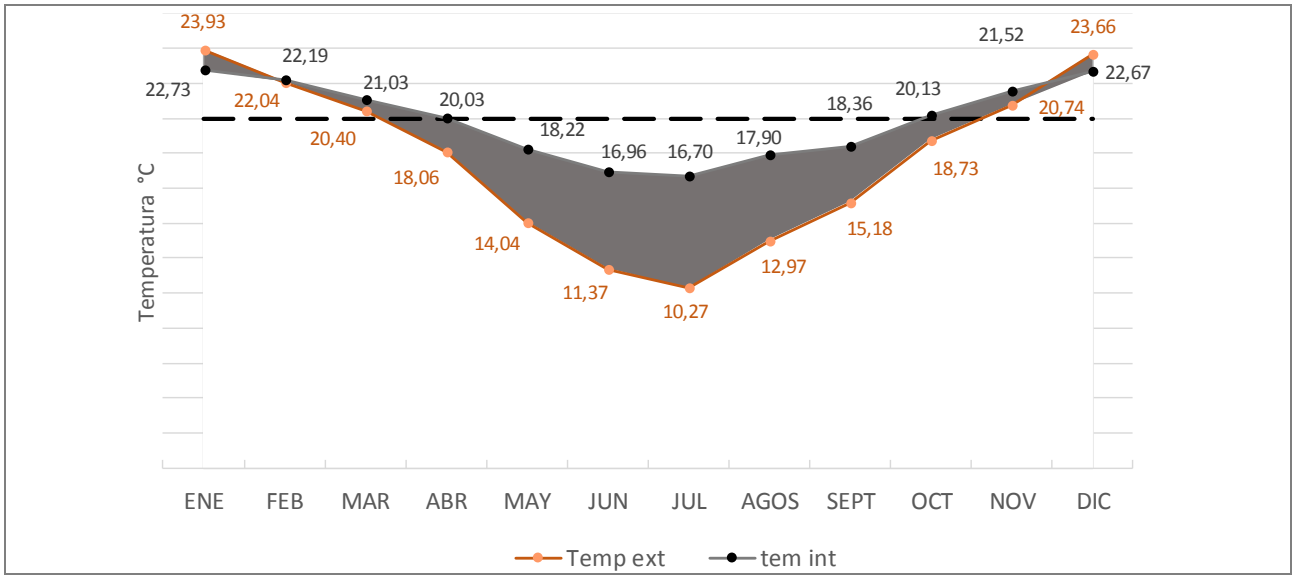
| STL-085 | CU | STEEL FRAME |
|---|---|---|

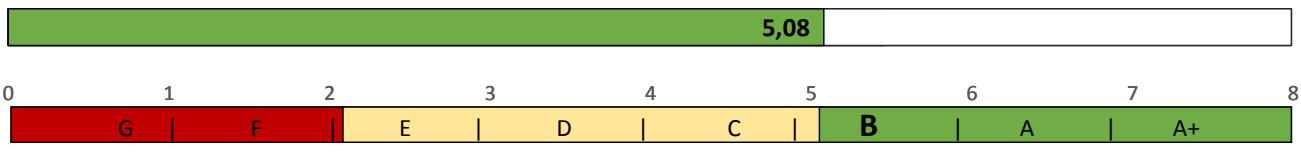
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,70** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,83** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



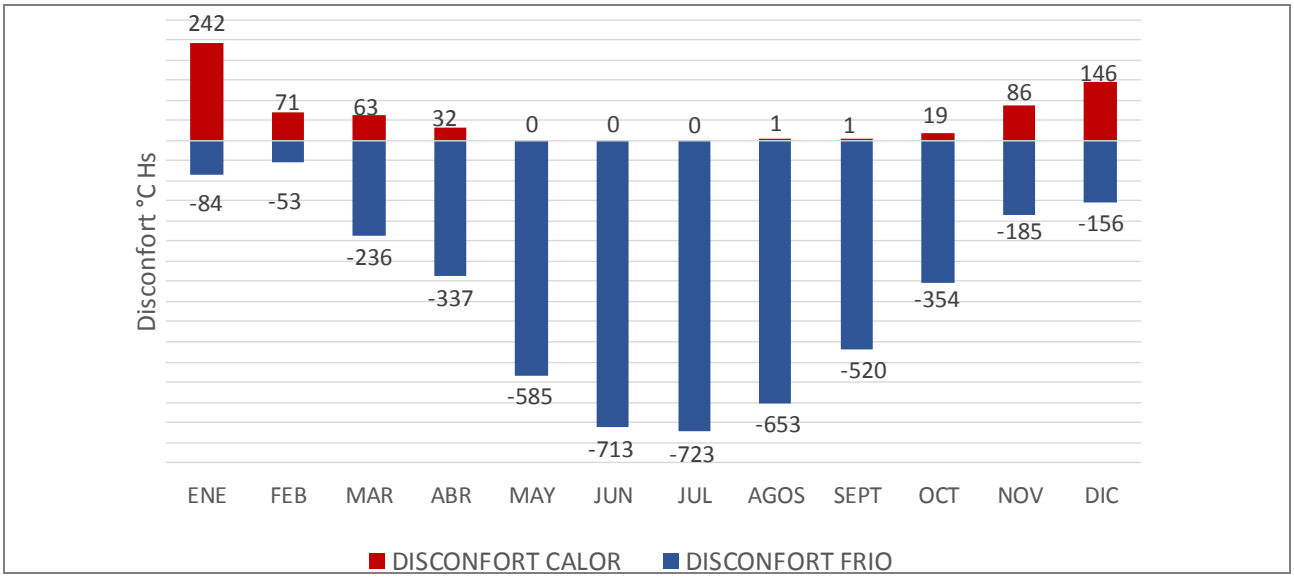




5,08 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-085 | CU | STEEL FRAME |
|---|---|---|

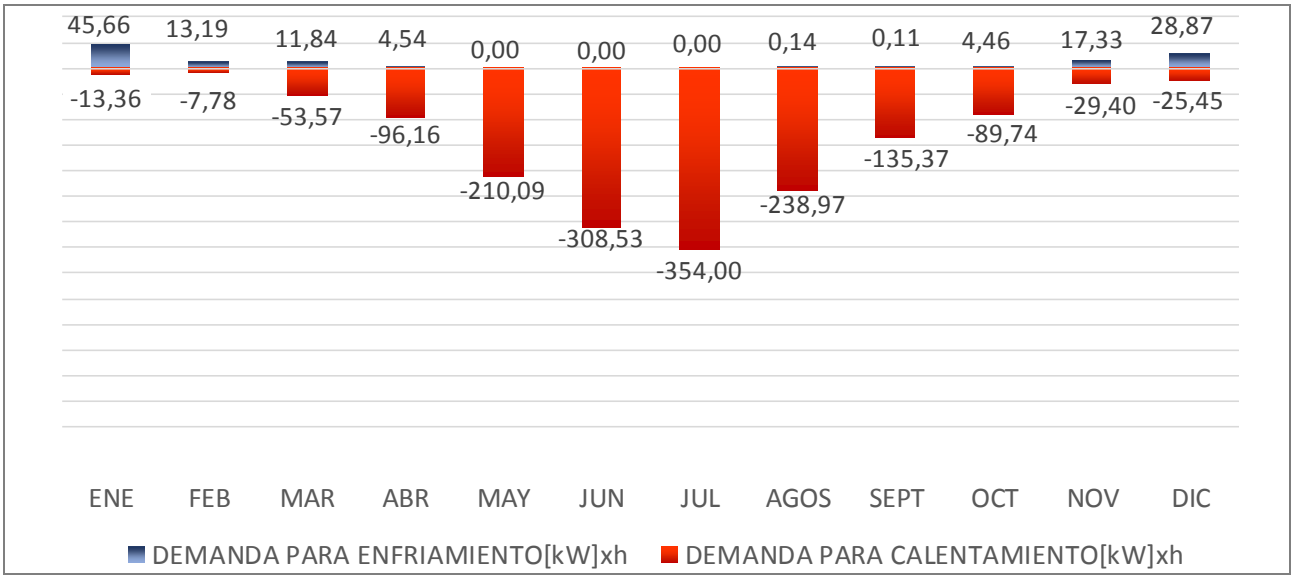
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **661** | °C Hs | 8% |
| HORAS DE DISCONFORT POR FRÍO | **4.599** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.260** | **°C Hs** | **61%** |

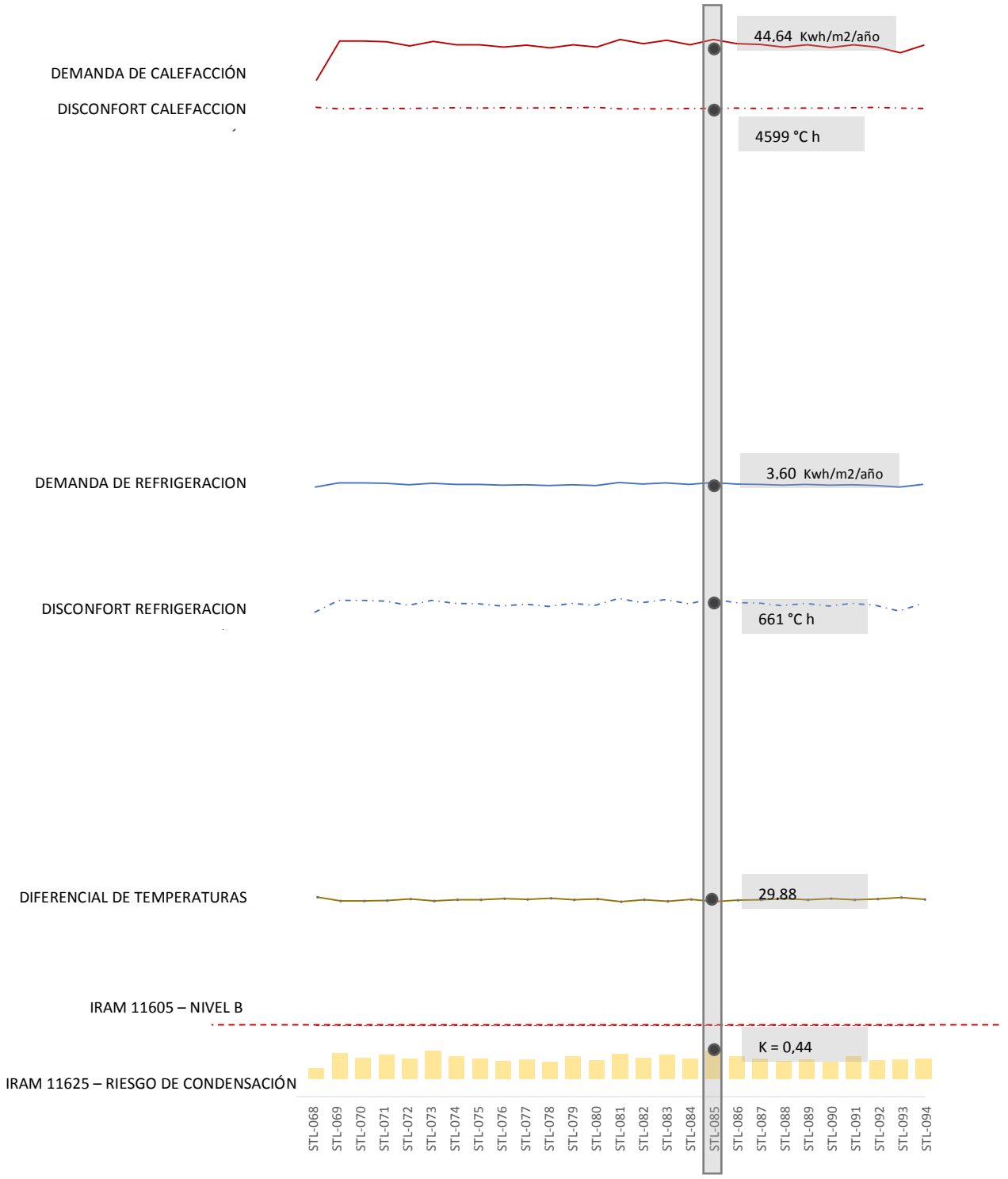
## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **126,14** | kWh | 3,60 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.562,41** | kWh | 44,64 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.688,56** | kWh | **48,24** | kWh/m2/año |

| STL-085 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS



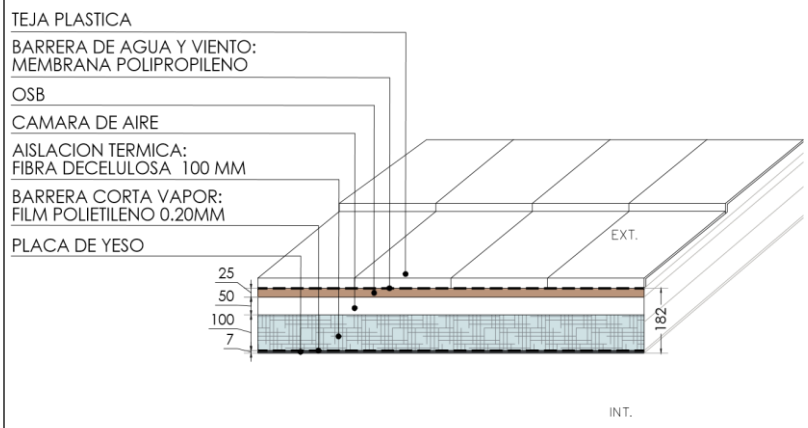

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,44 | 0% | 29,88 | 44,64 | 3,6 | 4599 | 661 |
| INC. FAMILIA | 135,62% | 0% | 98,98% | 104,91% | 122,11% | 99,96% | 111,14% |
| INC. MUNDIAL | 54,32% | 0% | 100,61% | 100,36% | 87,52% | 100,83% | 104,64% |

| STL-086 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE: CELULOSA PROYECTADA 100MM, HIDROFUGA Y BARRERA CORTAVAPOR

## INDICE DE TRANSMITANCIA TERMICA "K"

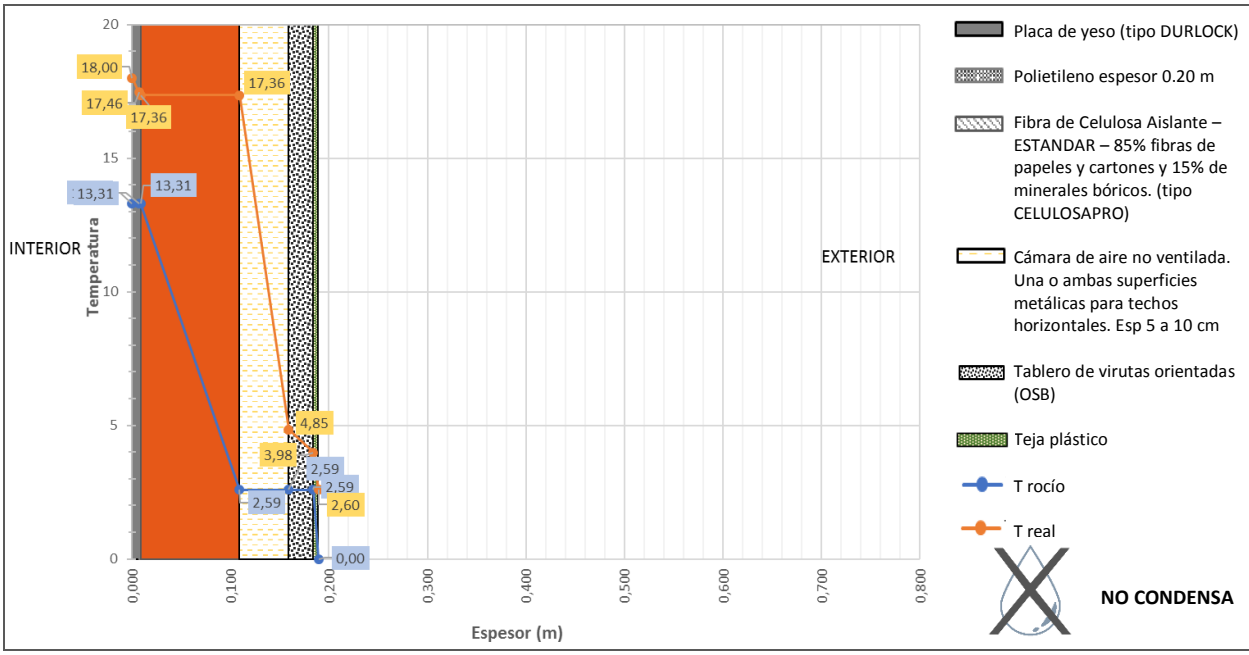
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,35 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



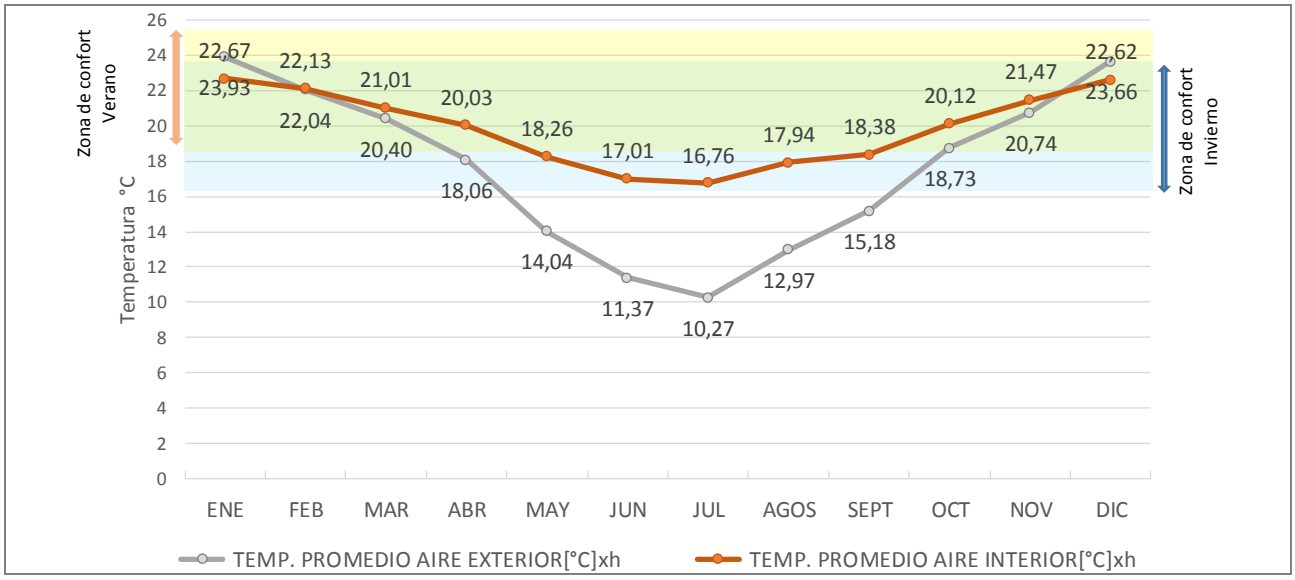

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,5 | 4,5 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,9** | **8,0** |
| | **Amortiguamiento:** | 0,053 | 0,052 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,0** | **4,6** |
| | **Amortiguamiento:** | 0,160 | 0,296 |

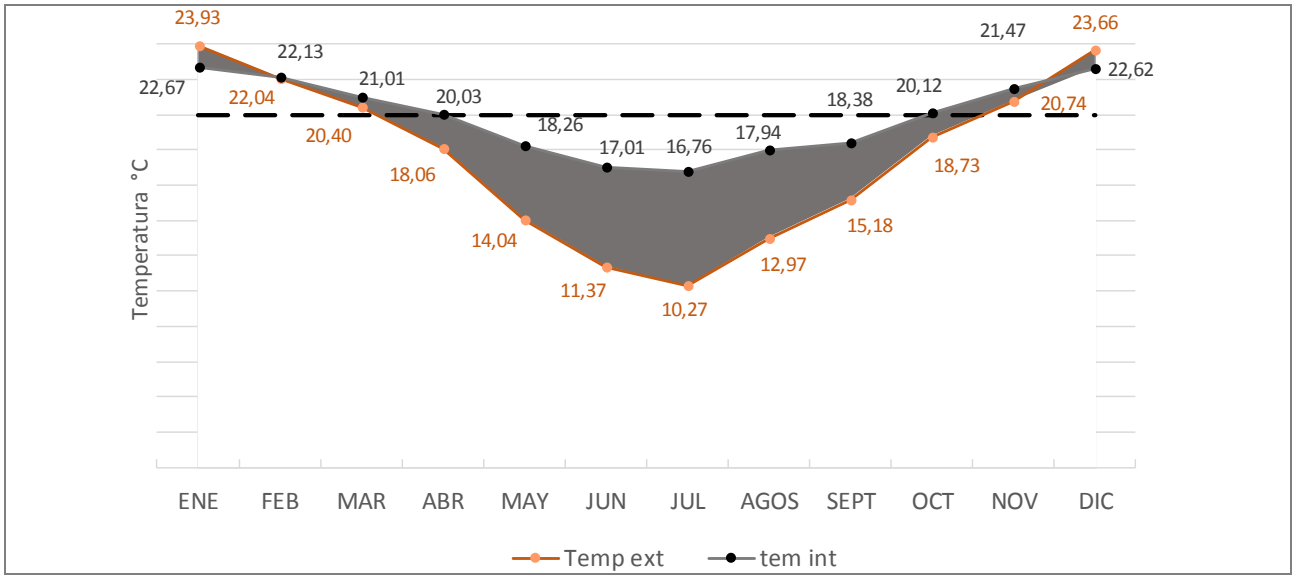
| STL-086 | CU | STEEL FRAME |
|---|---|---|

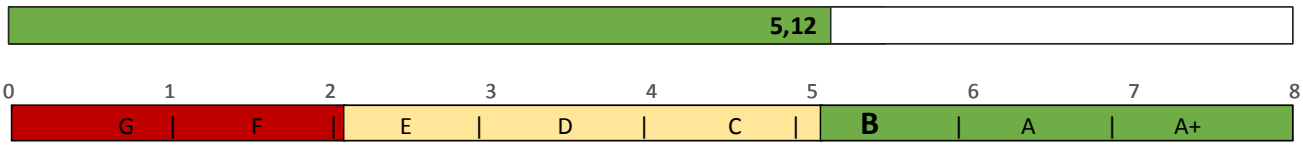
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,48** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **12,98** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



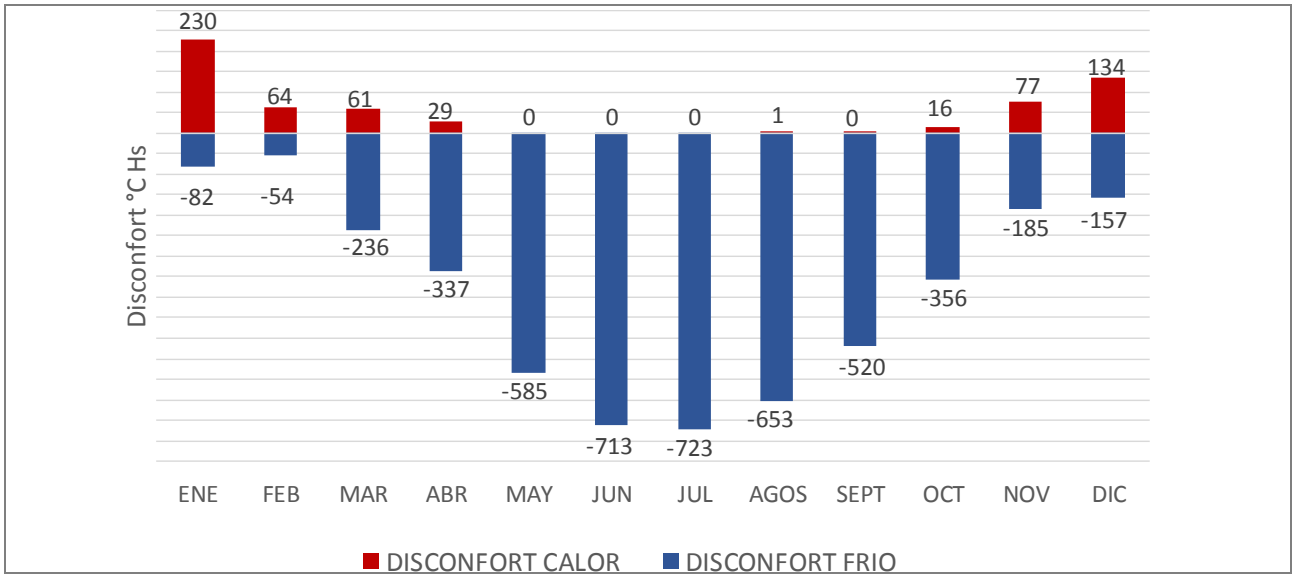




5,12 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-086 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

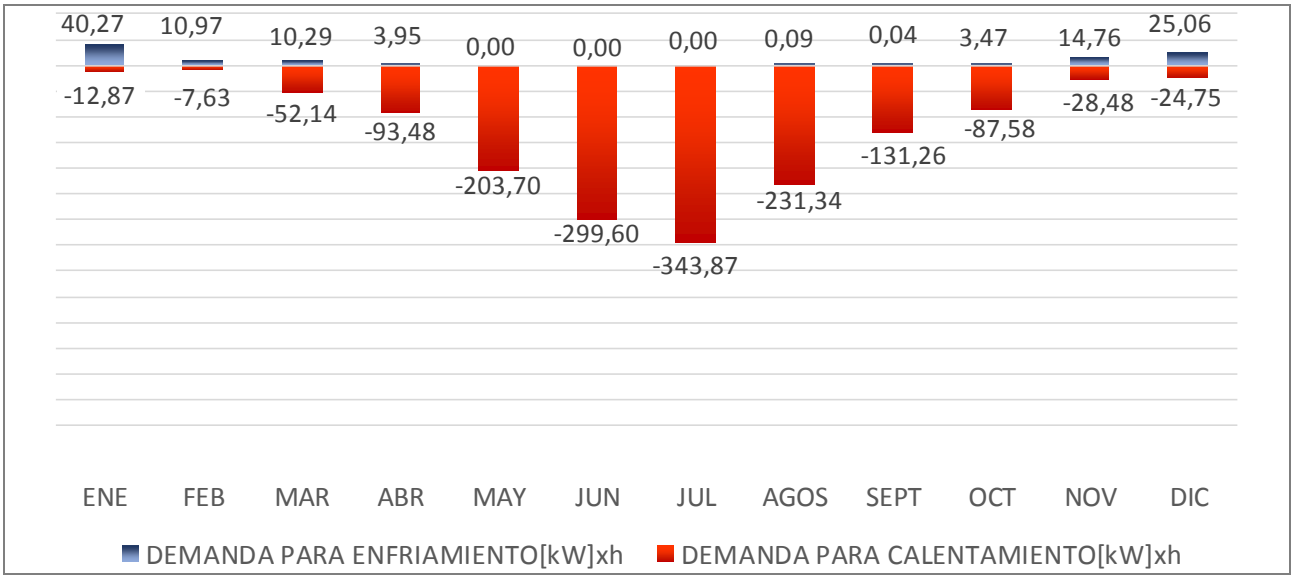
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **611** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.601** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.212** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

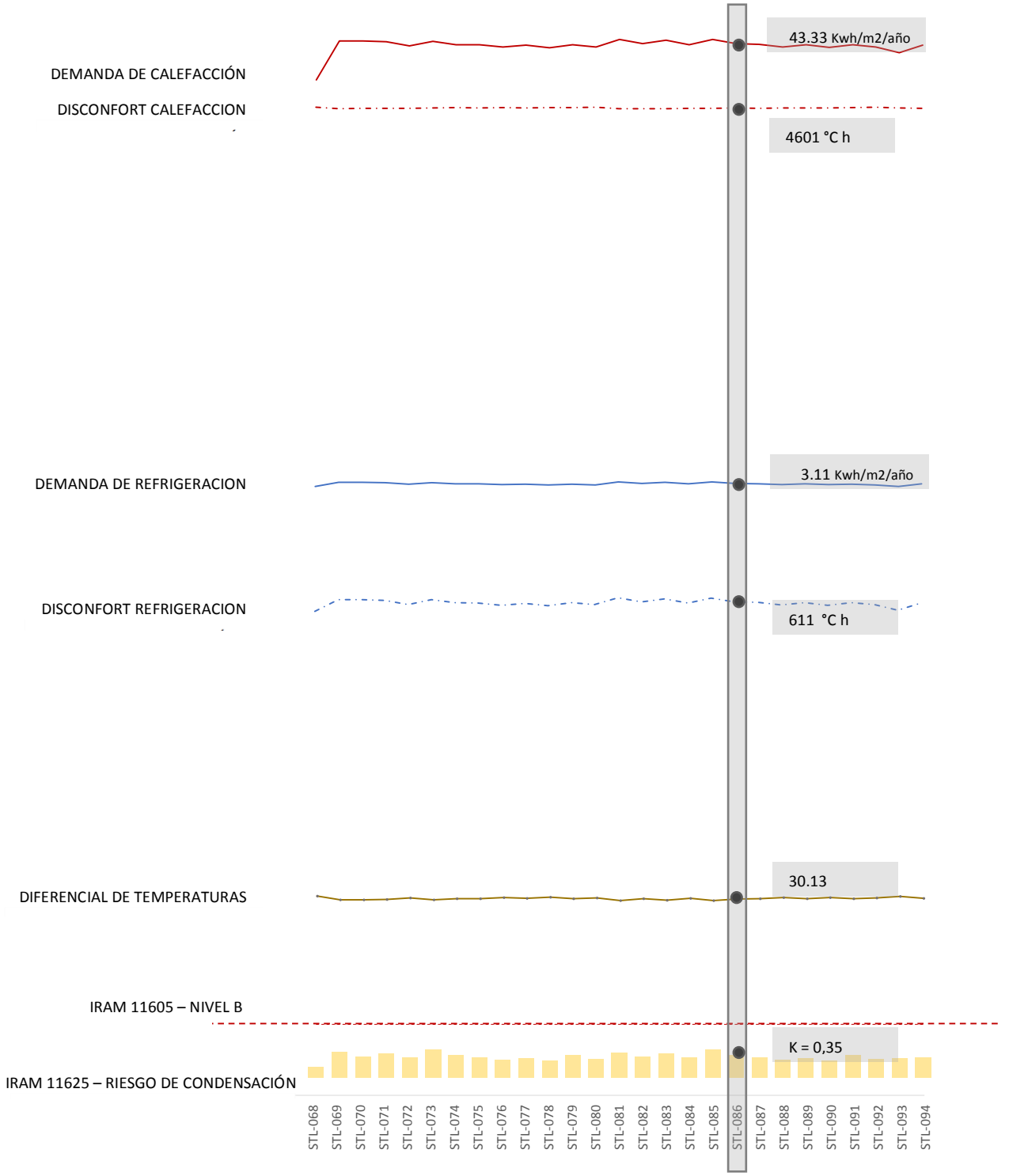



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **108,91** | kWh | 3,11 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.516,71** | kWh | 43,33 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.625,62** | kWh | **46,45** | kWh/m2/año |

| STL-086 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 033 | N° 034 | N° 073 | N° 084 | N° 099 | N° 075 |



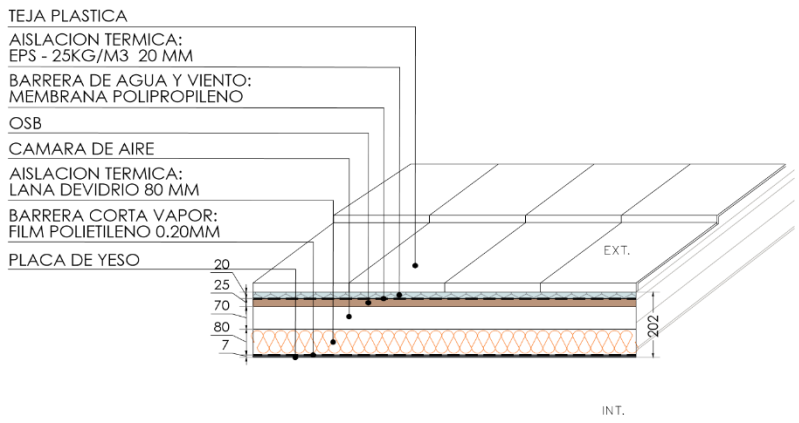

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,35 | 0% | 30,13 | 43,33 | 3,11 | 4601 | 611 |
| INC. FAMILIA | 107,88% | 0% | 99,81% | 101,83% | 105,49% | 100,00% | 102,73% |
| INC. MUNDIAL | 43,21% | 0% | 101,45% | 97,42% | 75,61% | 100,88% | 96,73% |

| STL-087 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 80MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

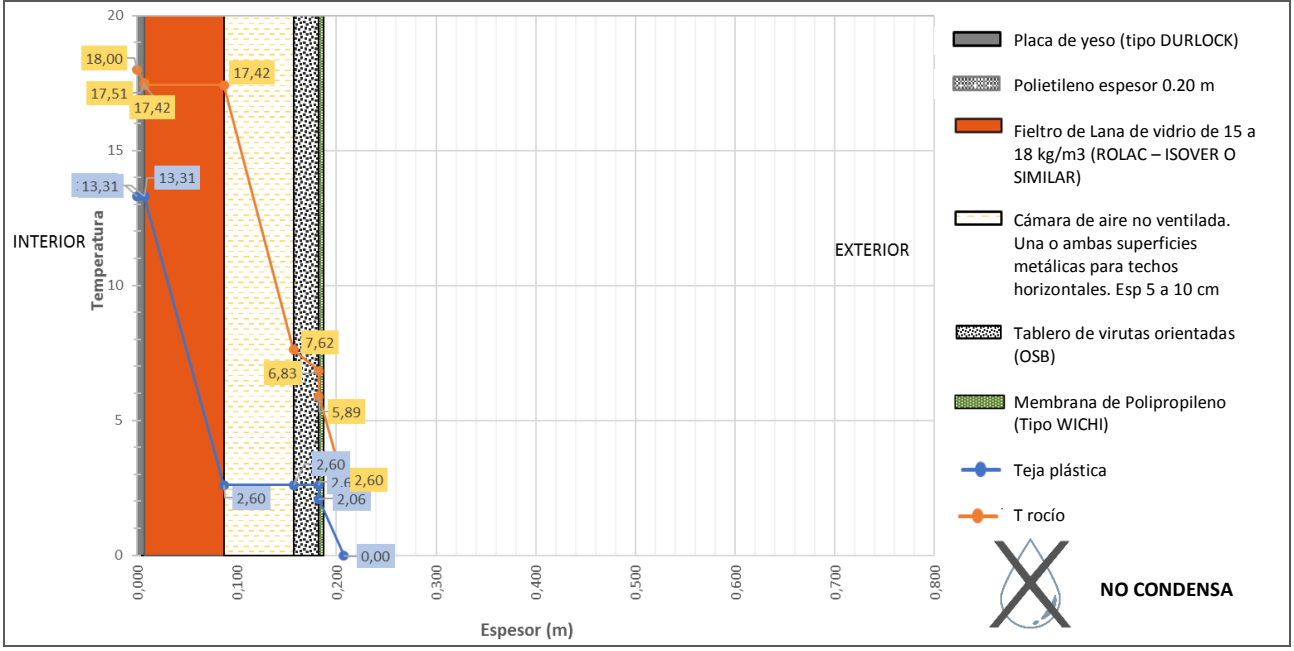
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,31 | 0,32 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



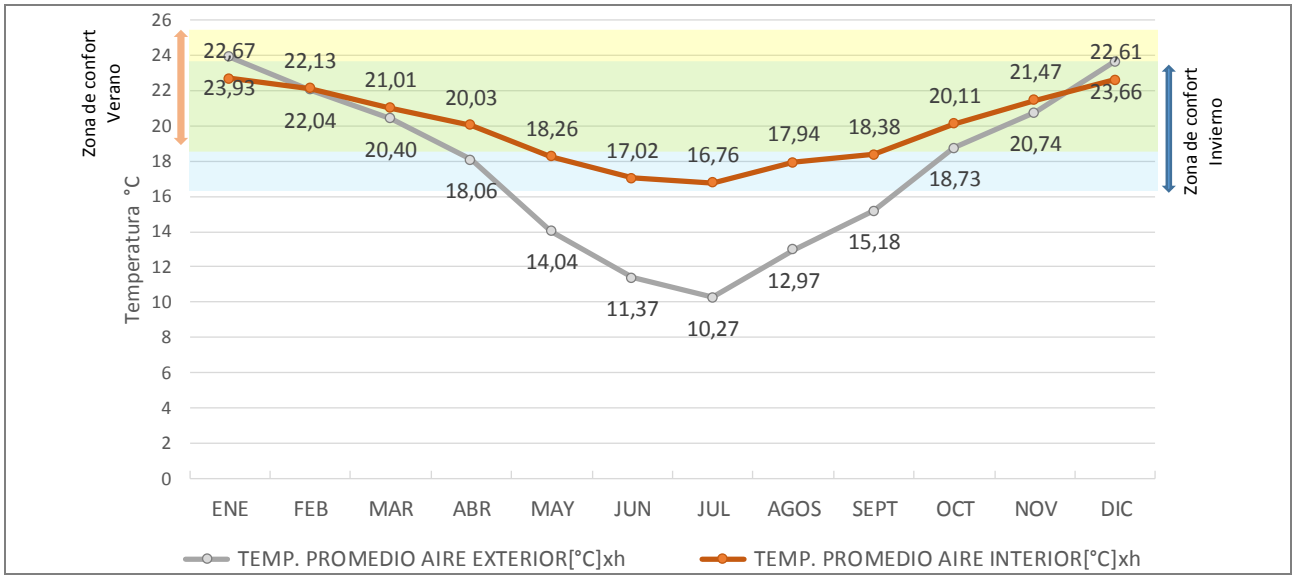

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,6 | 2,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,7** | **6,8** |
| | **Amortiguamiento:** | 0,082 | 0,080 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,0** | **4,2** |
| | **Amortiguamiento:** | 0,207 | 0,332 |

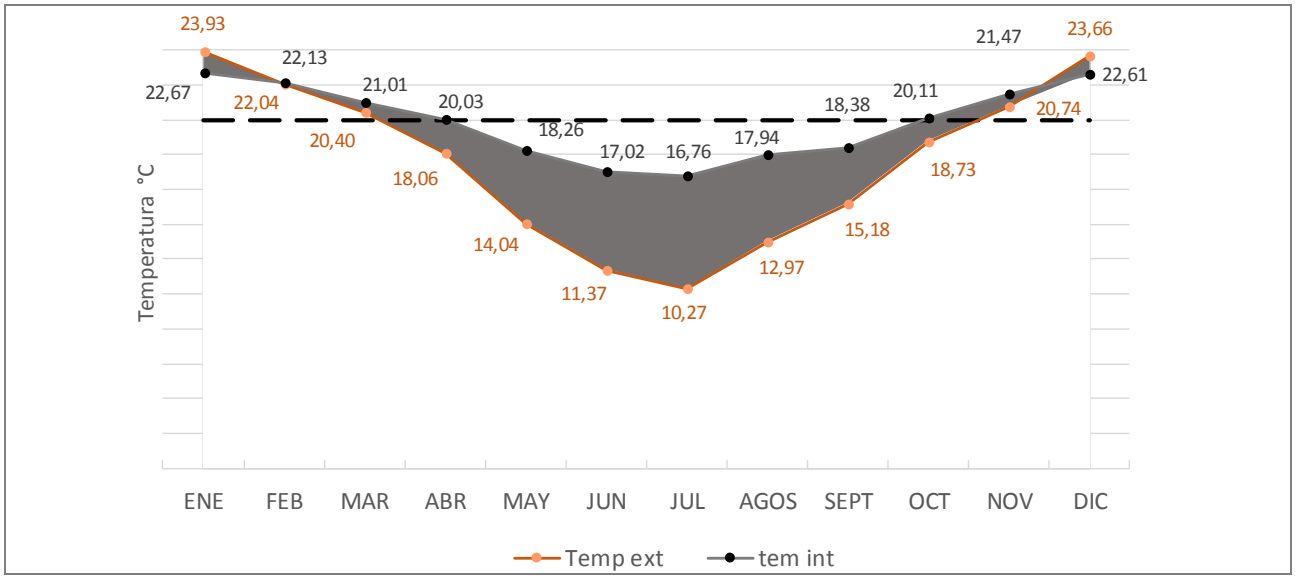
| STL-087 | CU | STEEL FRAME |
|---|---|---|

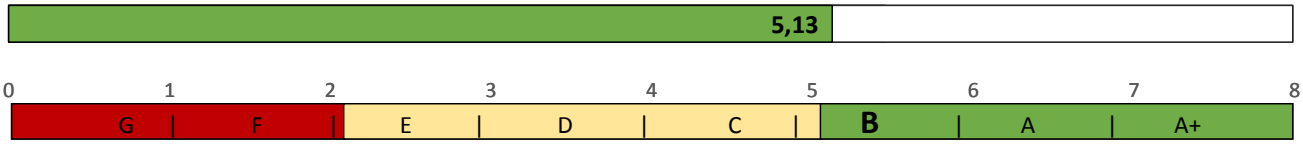
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,41** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,01** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



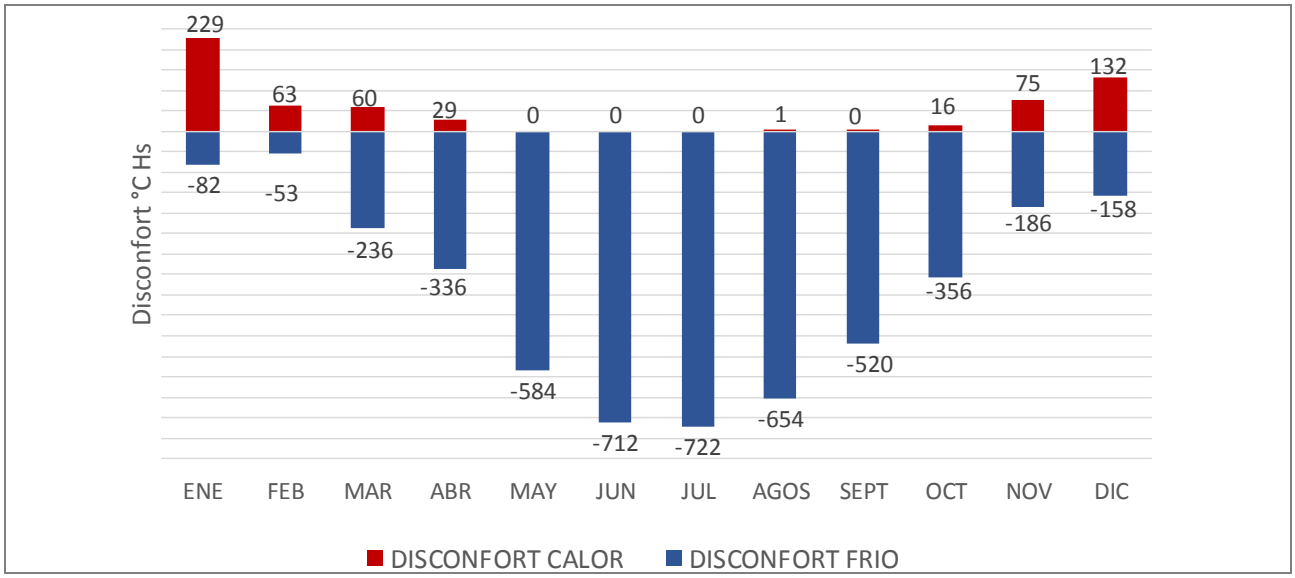




5,13 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-087 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

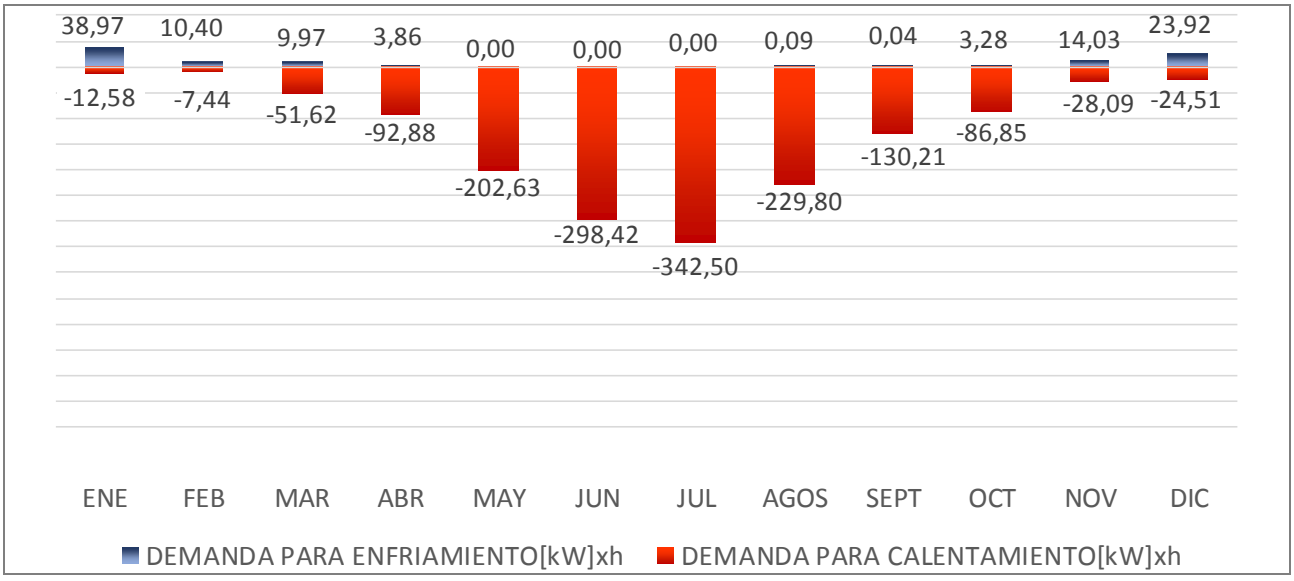
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **604** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.599** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.203** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

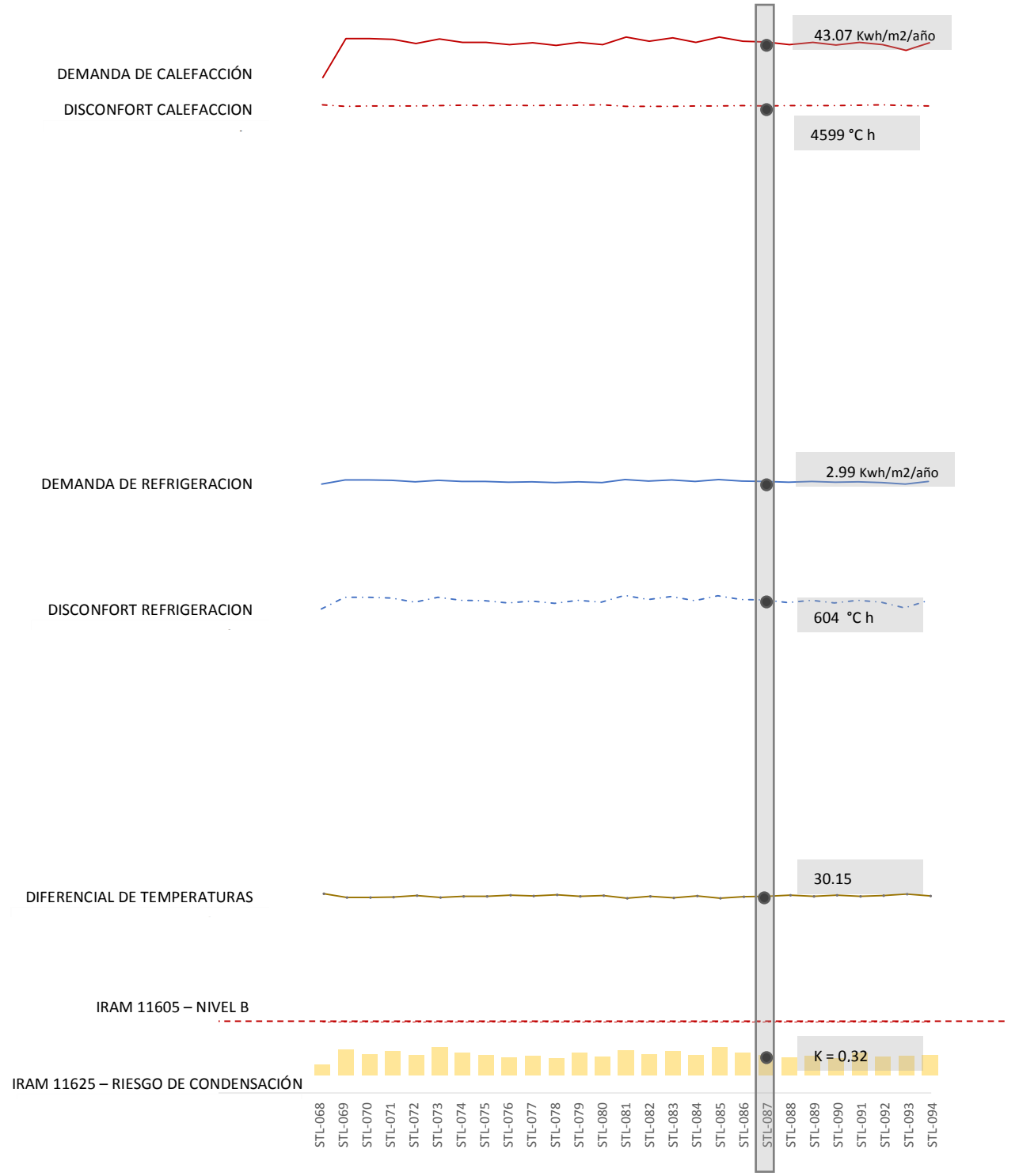



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **104,56** | kWh | 2,99 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.507,51** | kWh | 43,07 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.612,07** | kWh | **46,06** | kWh/m2/año |

| STL-087 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 022 | N° 030 | N° 070 | N° 080 | N° 096 | N° 072 |



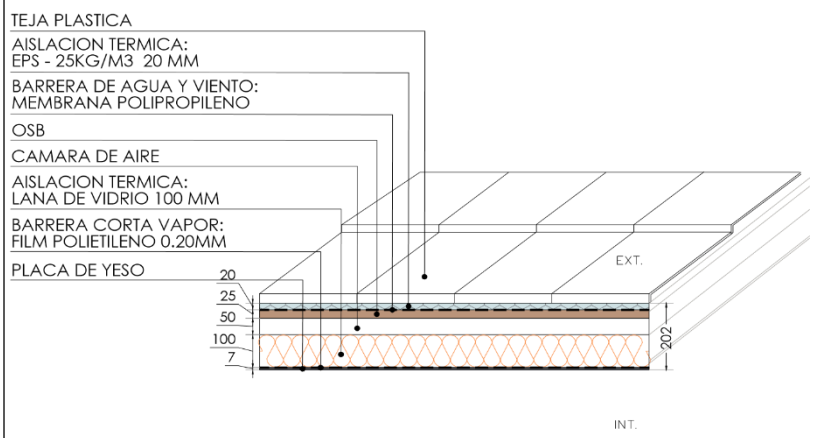

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,32 | 0% | 30,15 | 43,07 | 2,99 | 4599 | 604 |
| INC. FAMILIA | 98,63% | 0% | 99,87% | 101,22% | 101,42% | 99,96% | 101,56% |
| INC. MUNDIAL | 39,51% | 0% | 101,52% | 96,83% | 72,69% | 100,83% | 95,62% |

| STL-088 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: LANA DE VIDRIO 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

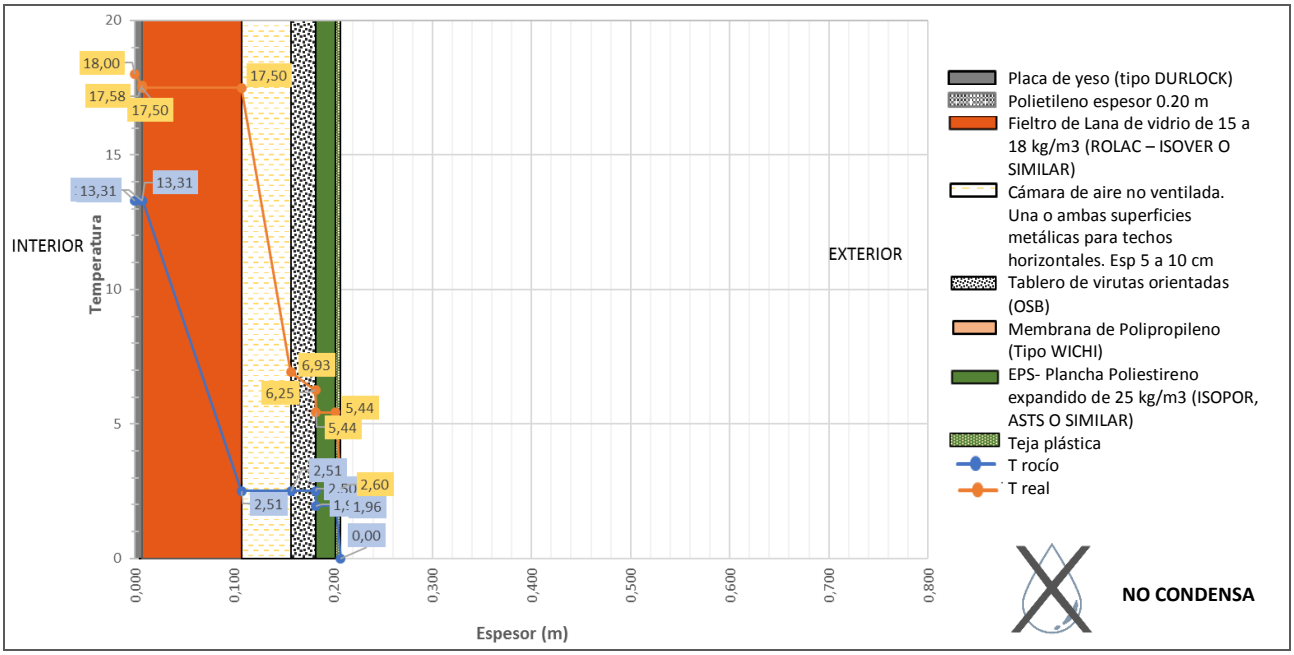
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,27 | 0,27 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



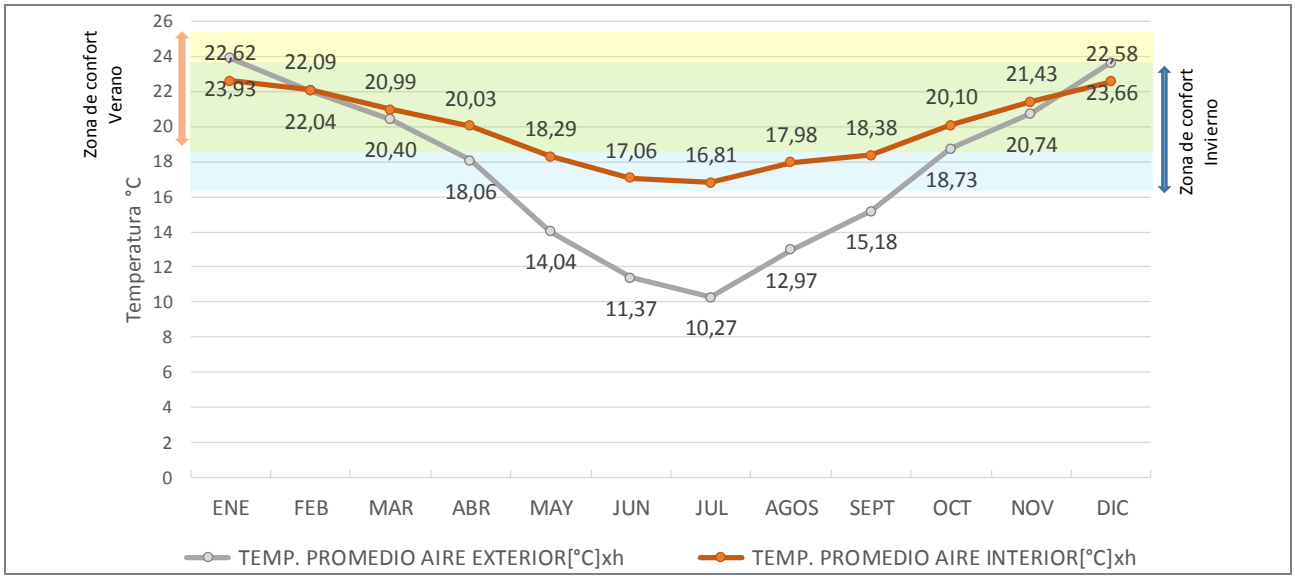

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,3 | 2,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,3** | **7,4** |
| | **Amortiguamiento:** | 0,067 | 0,065 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,6** | **4,4** |
| | **Amortiguamiento:** | 0,179 | 0,318 |

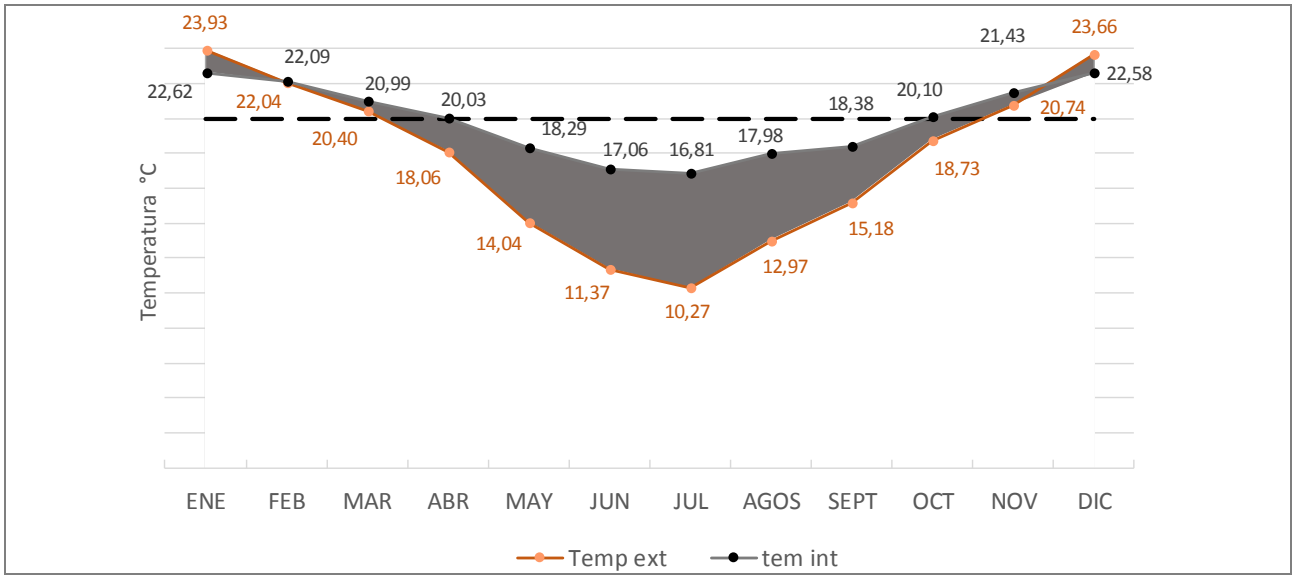
| STL-088 | CU | STEEL FRAME |
|---|---|---|

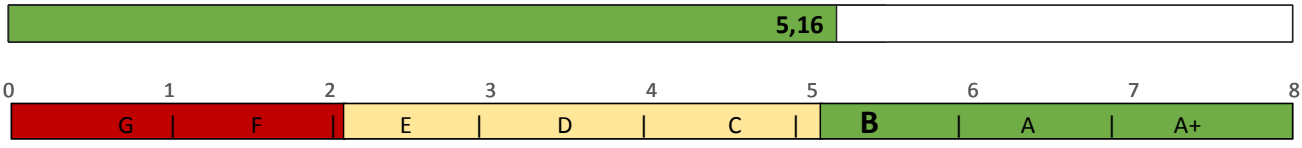
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,28** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,12** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



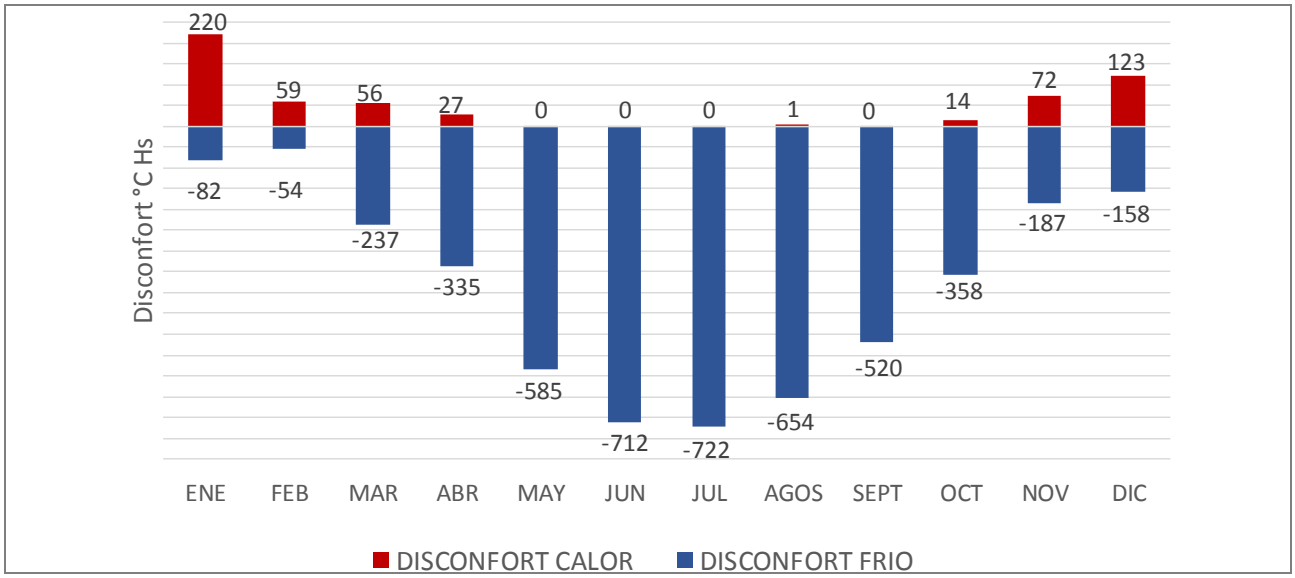




5,16 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| STL-088 | CU | STEEL FRAME |
|---|---|---|

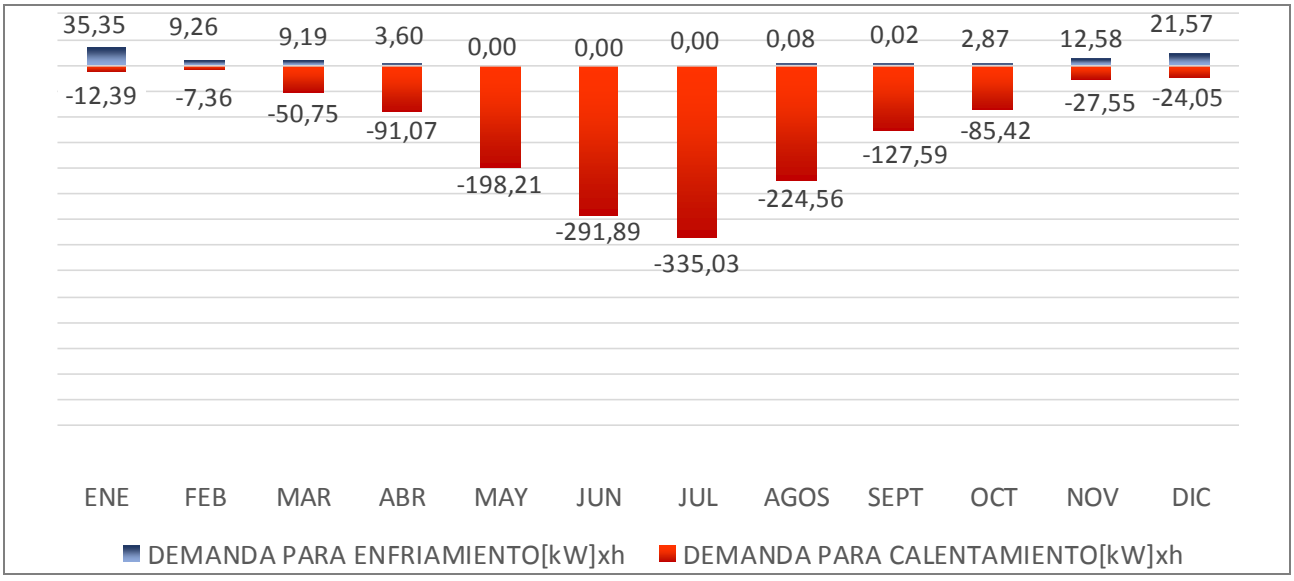
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **571** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.603** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **4.174** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

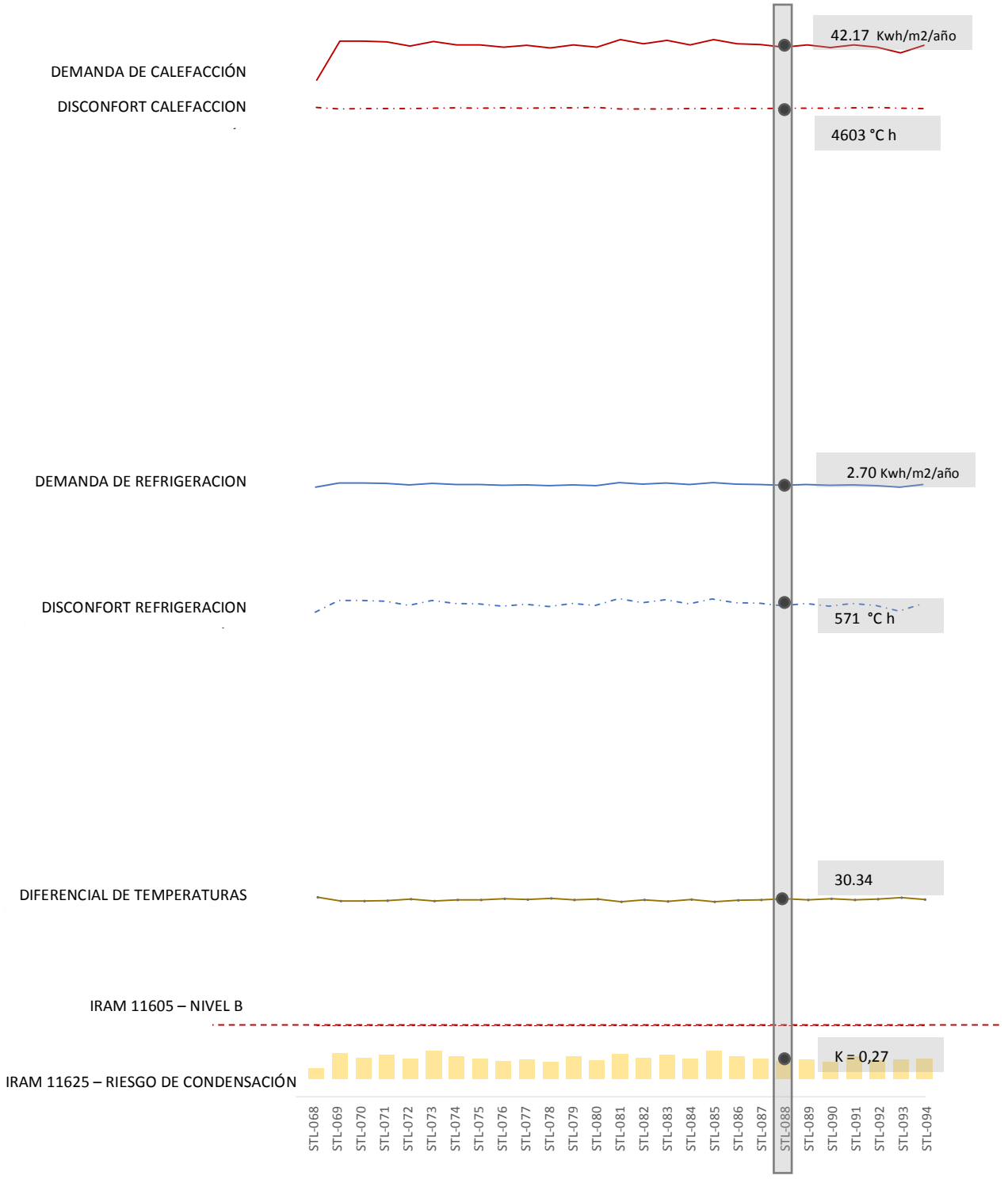



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **94,51** | kWh | 2,70 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.475,89** | kWh | 42,17 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.570,39** | kWh | **44,87** | kWh/m2/año |

| STL-088 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 006 | N° 011 | N° 054 | N° 061 | N° 103 | N° 056 |



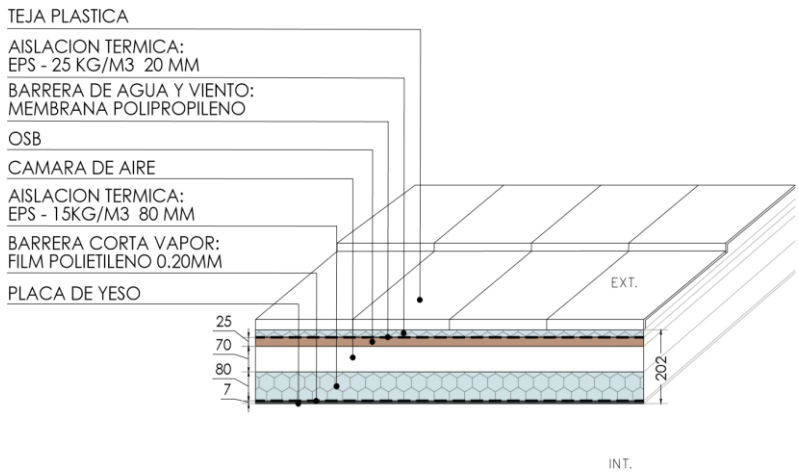

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,27 | 0% | 30,34 | 42,17 | 2,7 | 4603 | 571 |
| INC. FAMILIA | 83,22% | 0% | 100,50% | 99,10% | 91,58% | 100,05% | 96,01% |
| INC. MUNDIAL | 33,33% | 0% | 102,16% | 94,81% | 65,64% | 100,92% | 90,40% |

| STL-089 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 80MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

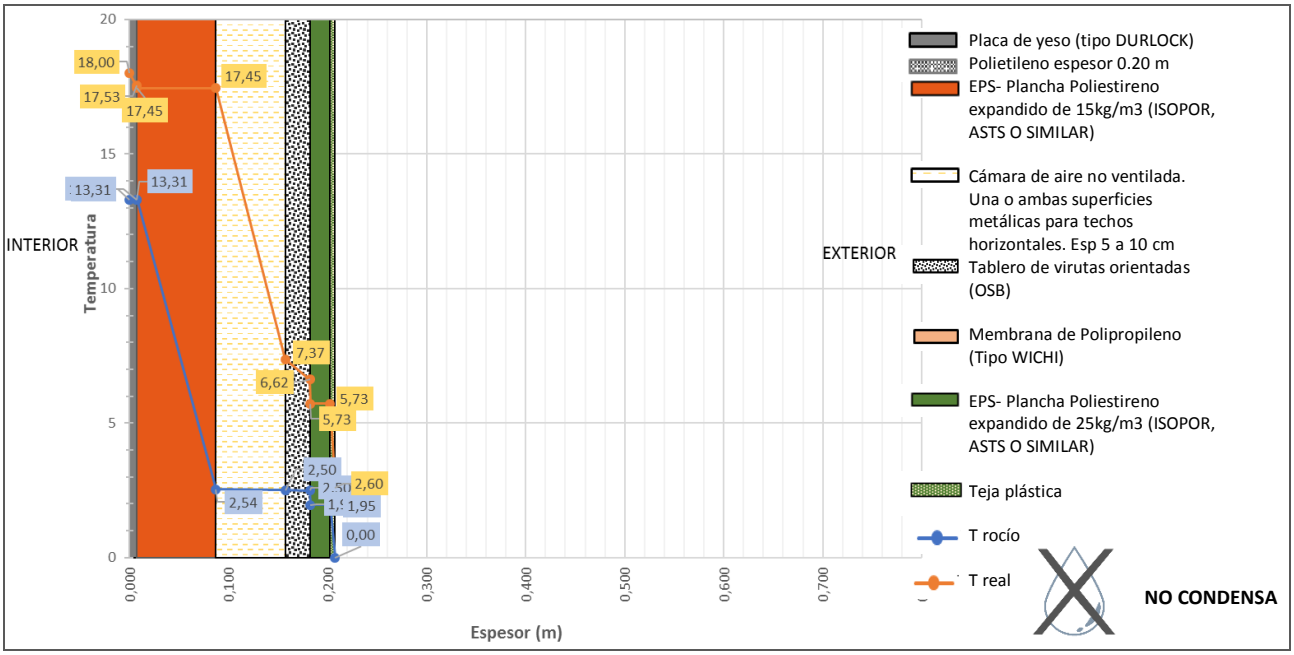
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,30 | 0,30 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



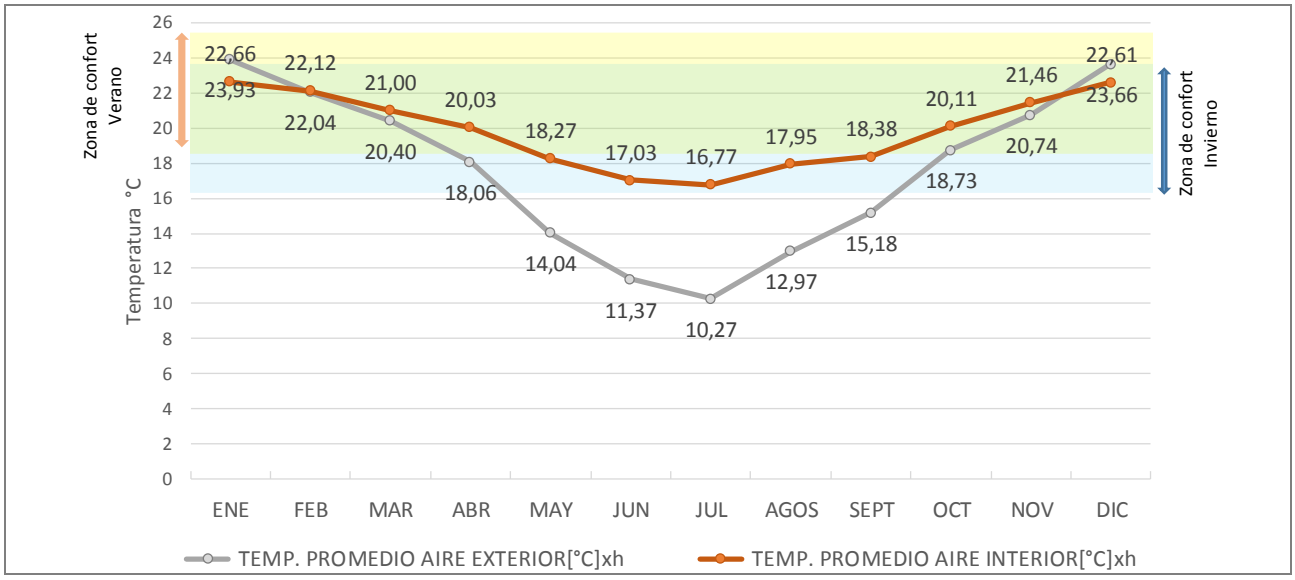

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,5 | 2,6 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **6,9** | **7,0** |
| | **Amortiguamiento:** | 0,077 | 0,075 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,2** | **4,3** |
| | **Amortiguamiento:** | 0,197 | 0,327 |

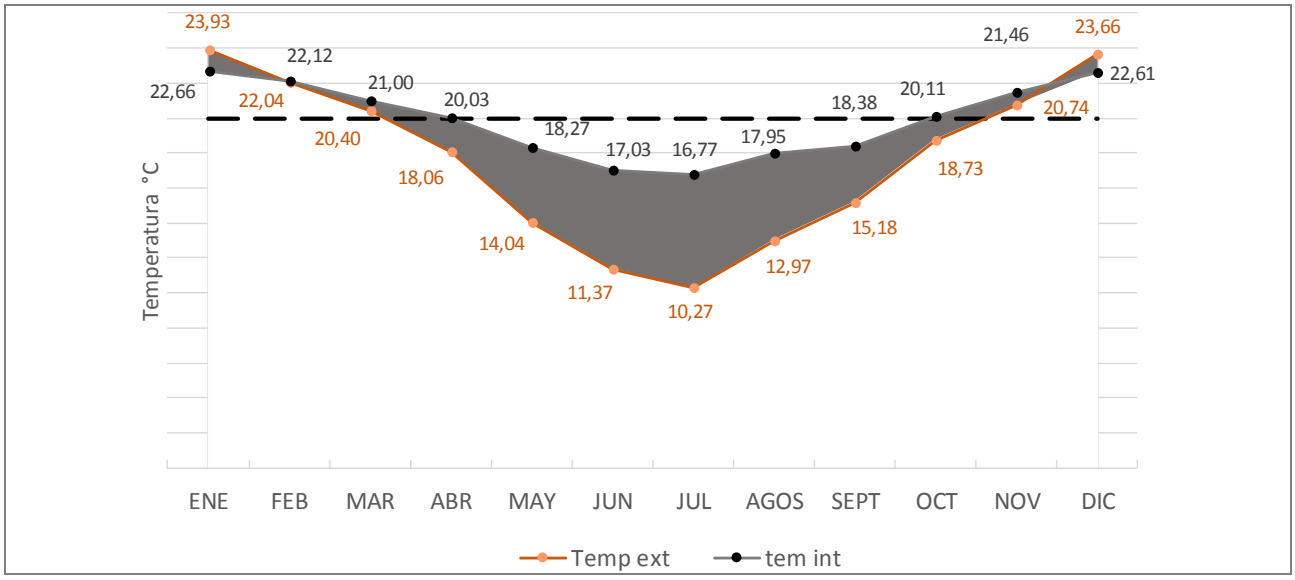
| STL-089 | CU | STEEL FRAME |
|---|---|---|

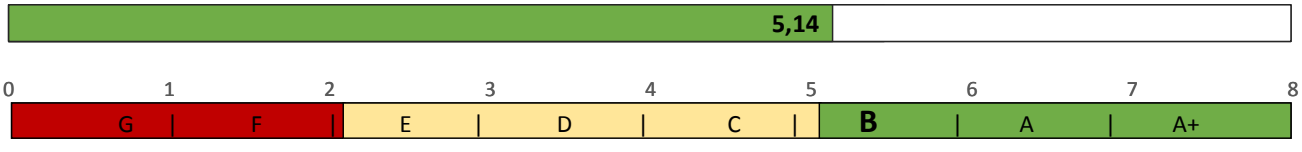
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,38** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,03** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



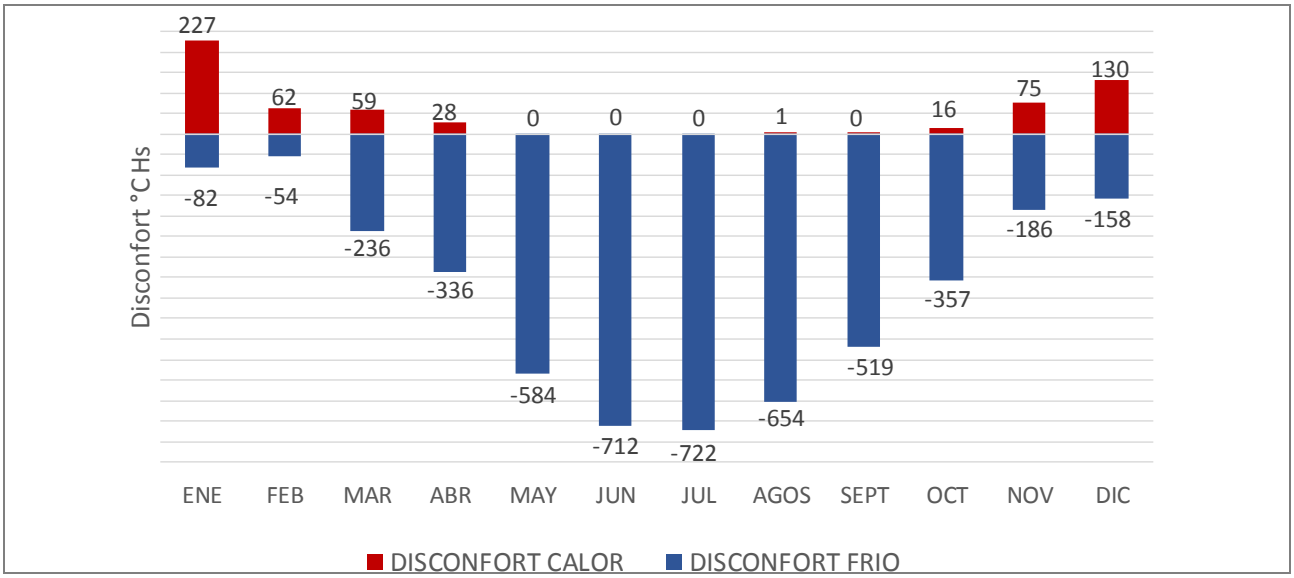




5,14 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-089 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

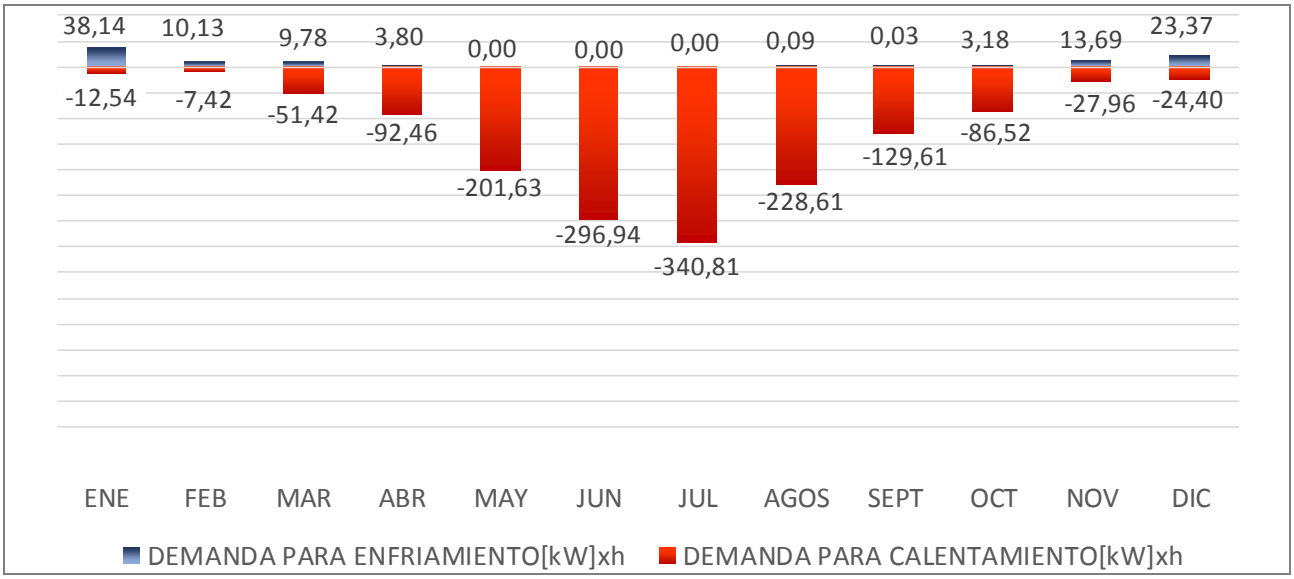
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **597** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.600** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.197** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

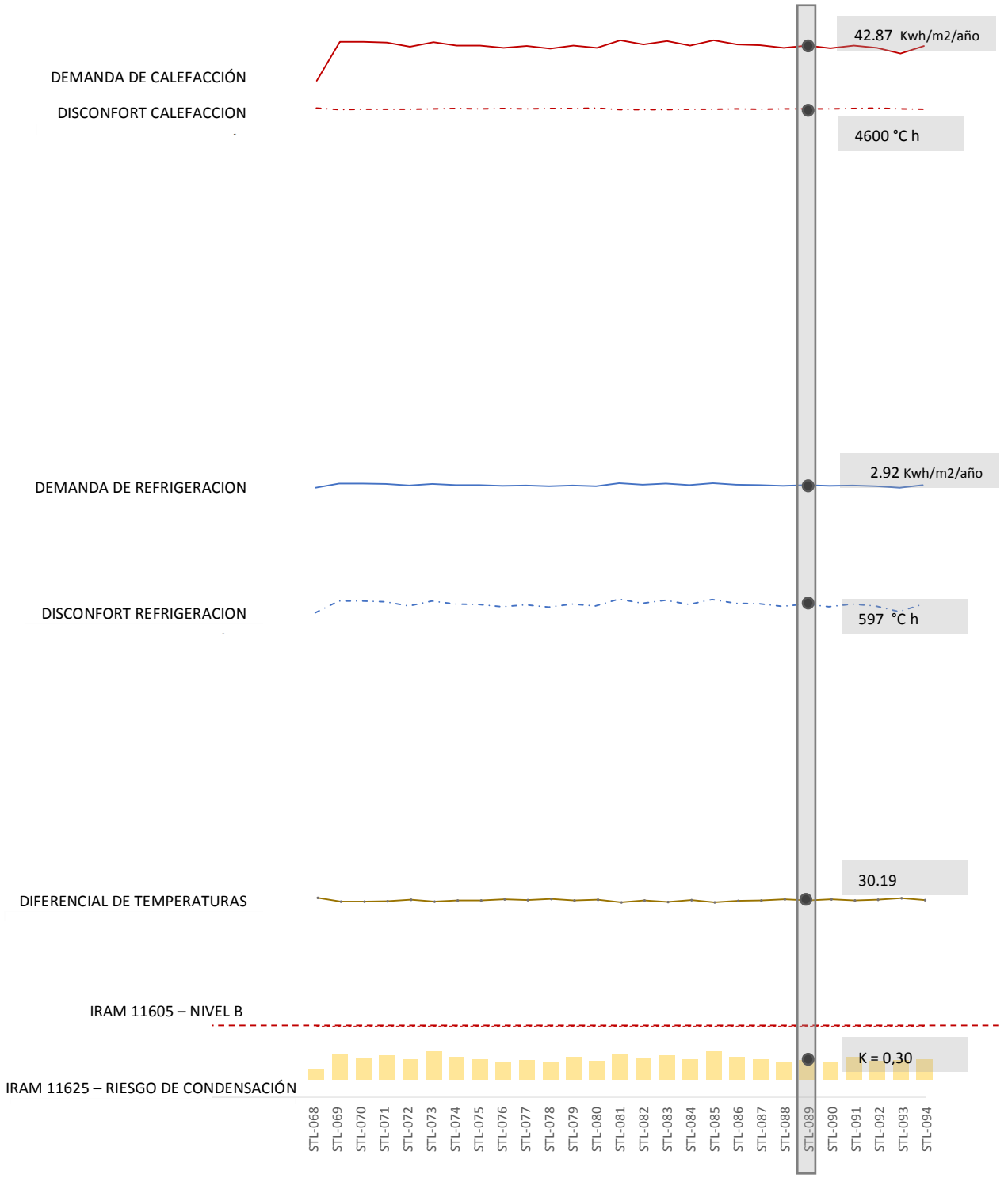



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **102,21** | kWh | 2,92 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.500,32** | kWh | 42,87 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **45,79** | kWh | | kWh/m2/año |

| STL-089 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 014 | N° 023 | N° 061 | N° 076 | N° 097 | N° 067 |



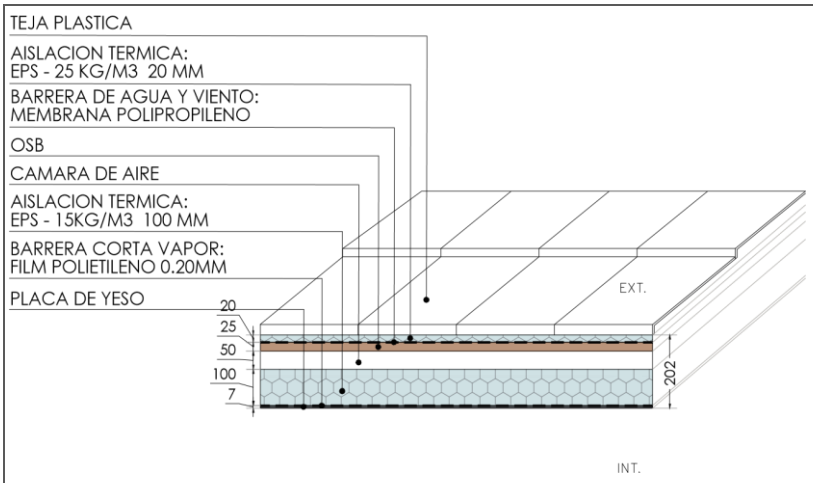

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,3 | 0% | 30,19 | 42,87 | 2,92 | 4600 | 597 |
| INC. FAMILIA | 92,47% | 0% | 100,00% | 100,75% | 99,05% | 99,98% | 100,38% |
| INC. MUNDIAL | 37,04% | 0% | 101,65% | 96,38% | 70,99% | 100,86% | 94,51% |

| STL-090 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: EPS 100MM-DENSIDAD 15KGM3 / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR.

## INDICE DE TRANSMITANCIA TERMICA "K"

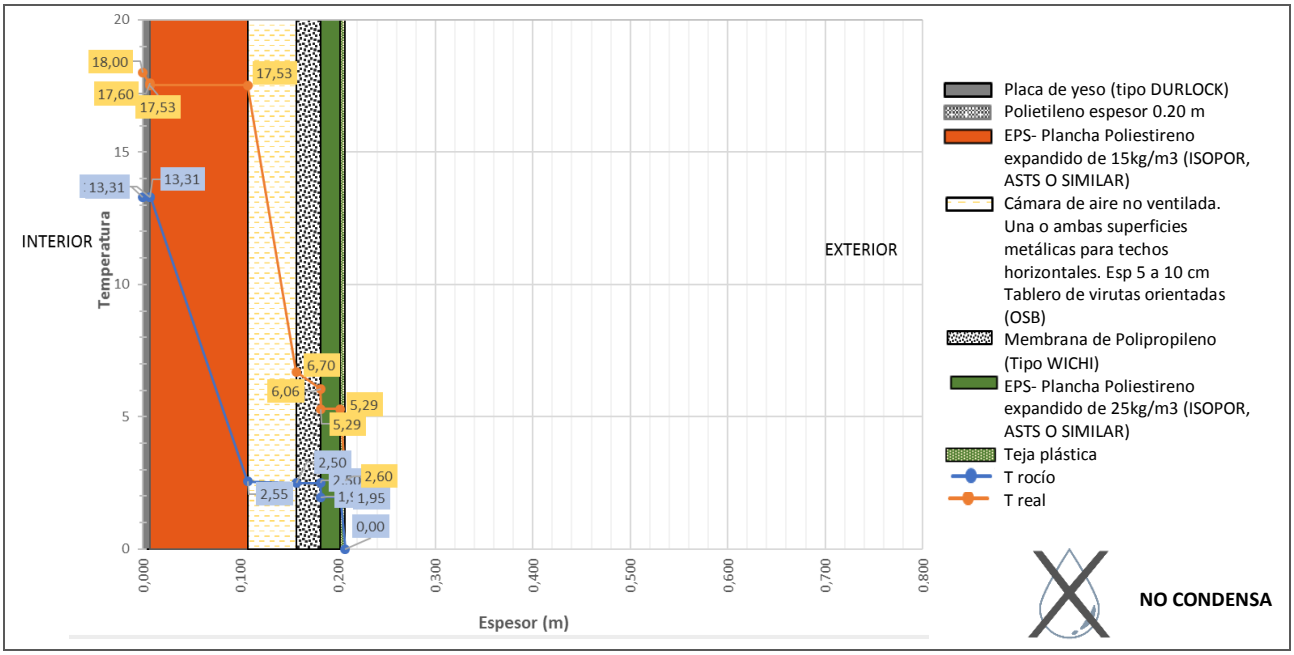
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,26 | 0,26 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




**NO CONDENSA**

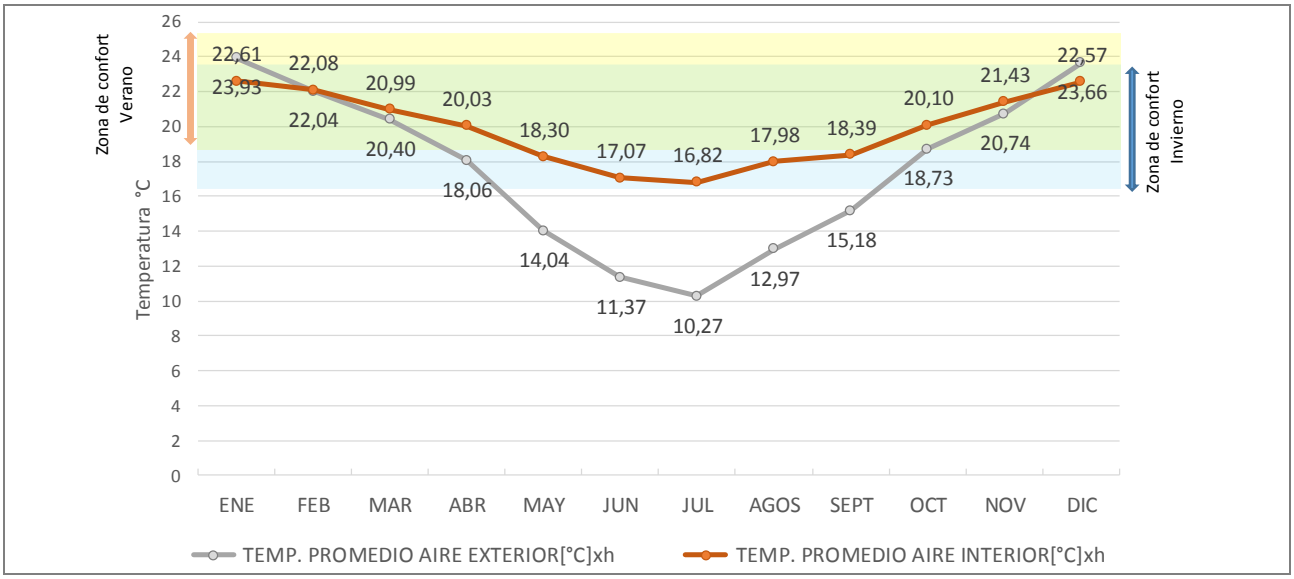
## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 2,1 | 2,2 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,5** | **7,6** |
| | **Amortiguamiento:** | 0,062 | 0,060 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,8** | **4,4** |
| | **Amortiguamiento:** | 0,170 | 0,312 |

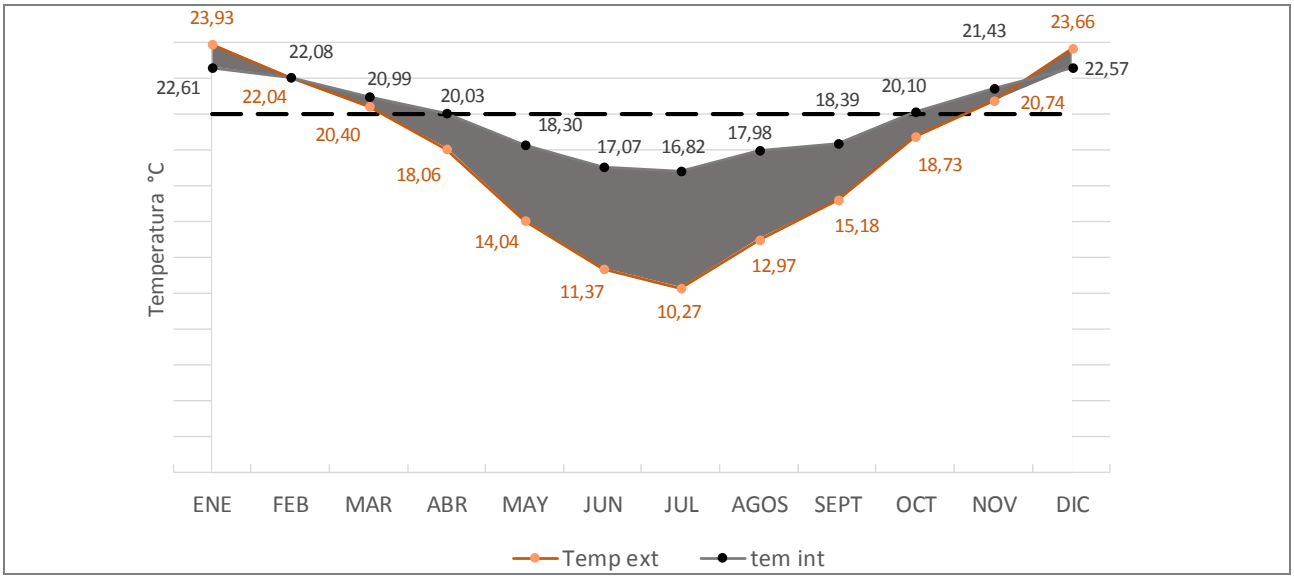
| STL-090 | CU | STEEL FRAME |
|---|---|---|

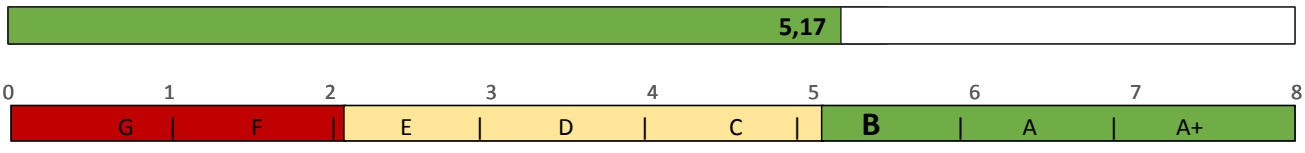
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,25** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,14** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



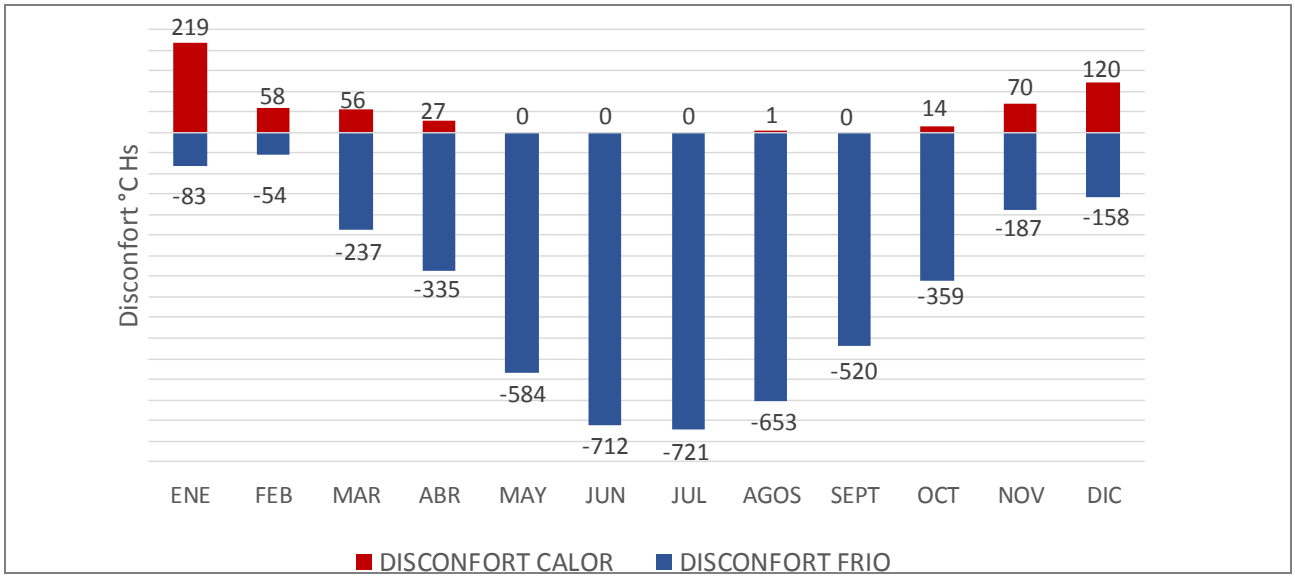




5,17 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| STL-090 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

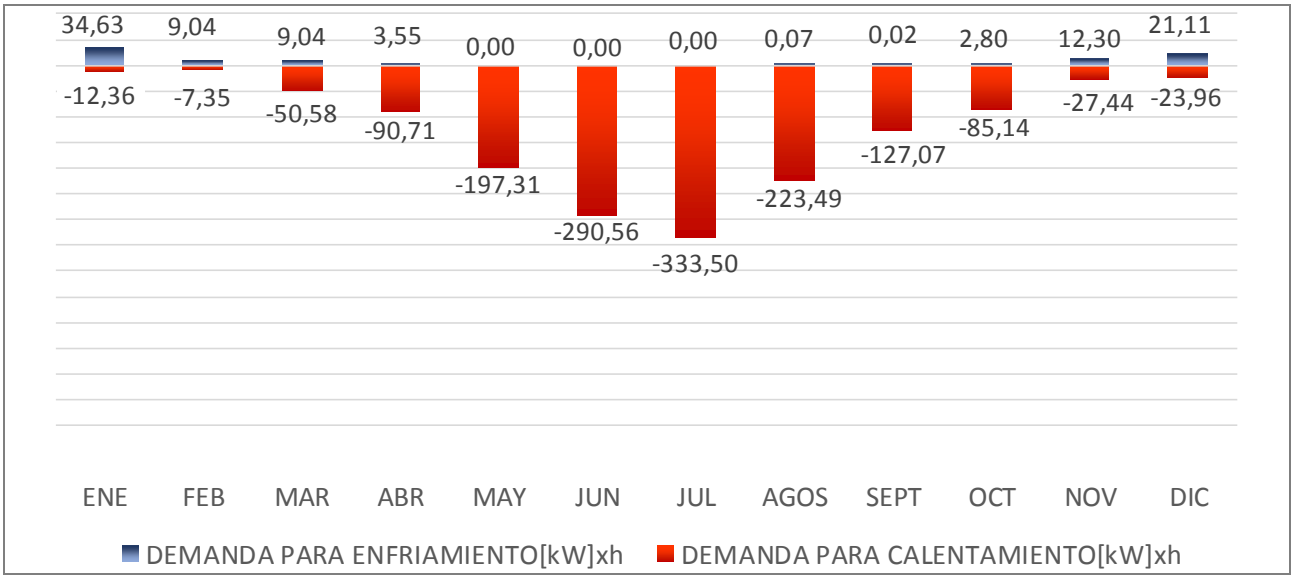
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **564** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.604** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.168** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

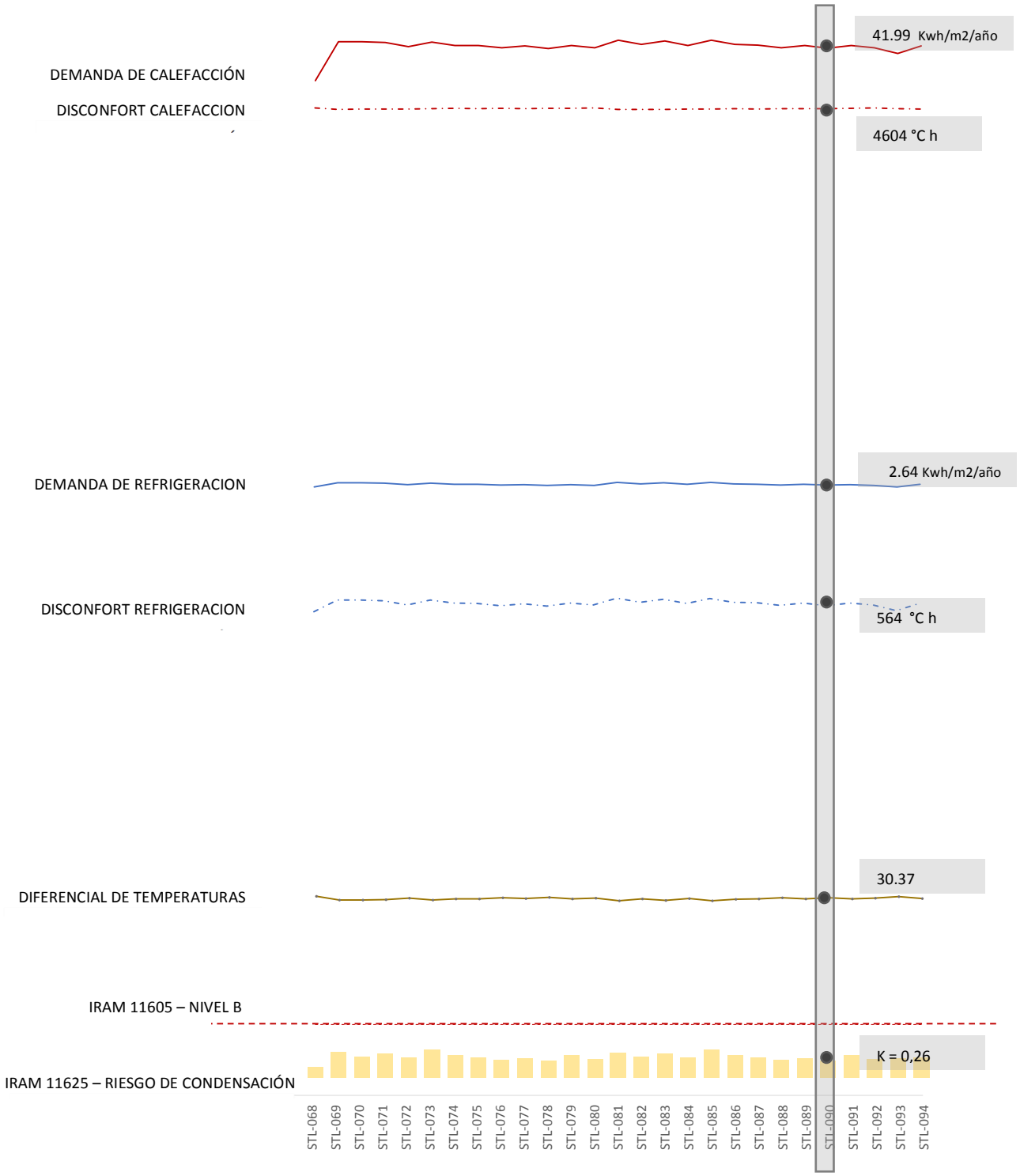



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **92,56** | kWh | 2,64 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.469,48** | kWh | 41,99 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.562,04** | kWh | **44.63** | kWh/m2/año |

| STL-090 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 005 | N° 008 | N° 050 | N° 058 | N° 105 | N° 054 |



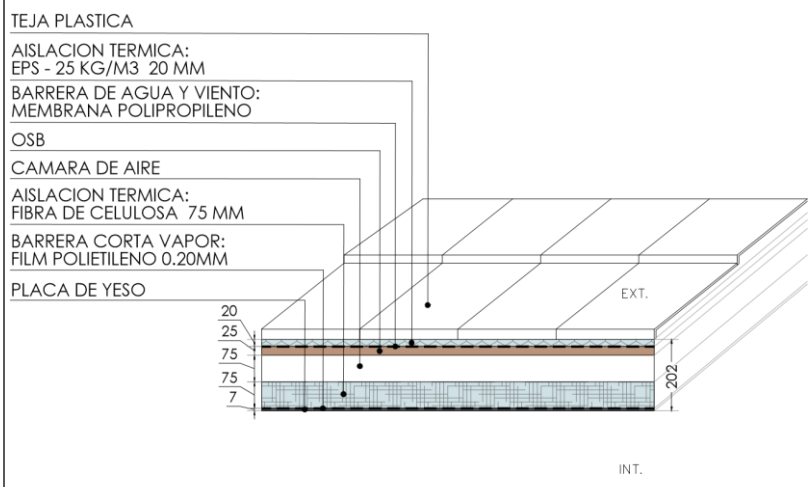

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,26 | 0% | 30,37 | 41,99 | 2,64 | 4604 | 564 |
| INC. FAMILIA | 80,14% | 0% | 100,60% | 98,68% | 89,55% | 100,07% | 94,83% |
| INC. MUNDIAL | 32,10% | 0% | 102,26% | 94,41% | 64,18% | 100,94% | 89,29% |

| STL-091 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJA PLASTICA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 75MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR

## INDICE DE TRANSMITANCIA TERMICA "K"

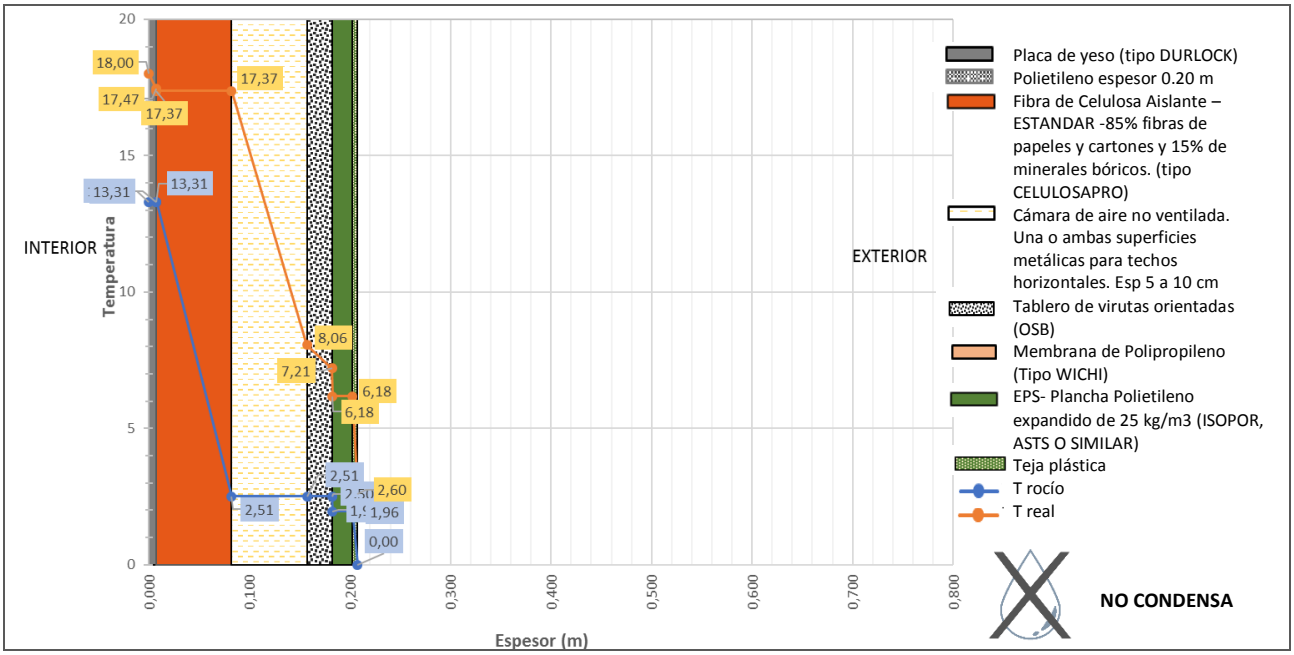
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,34 | 0,35 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



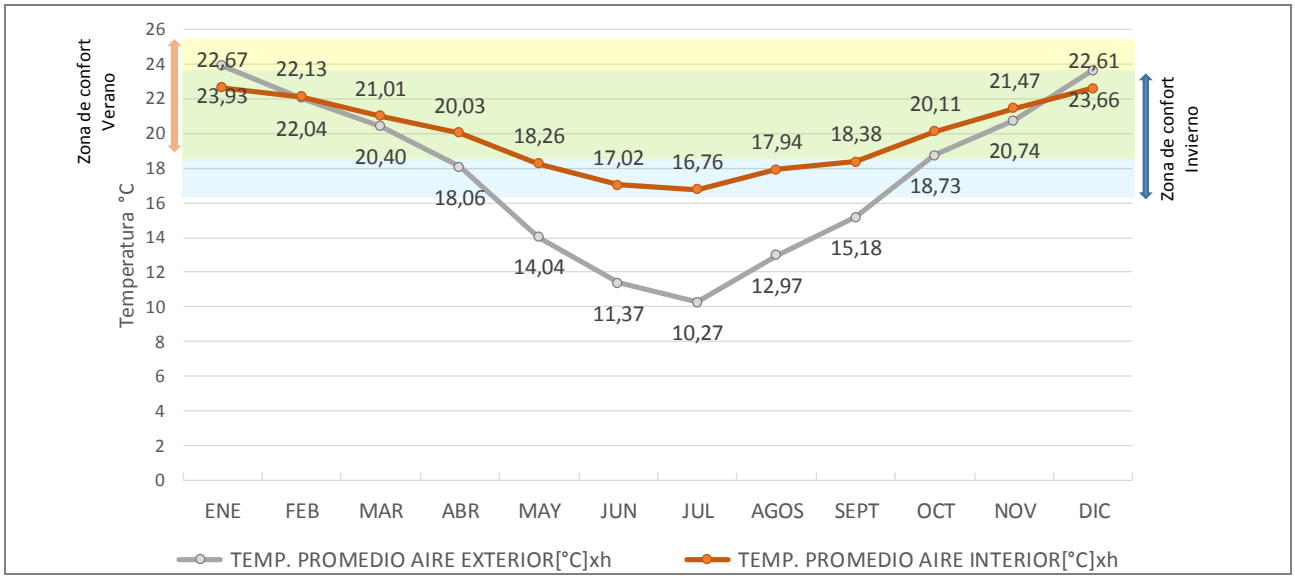

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,0 | 4,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **7,6** | **7,7** |
| | **Amortiguamiento:** | 0,059 | 0,058 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **6,2** | **5,2** |
| | **Amortiguamiento:** | 0,197 | 0,255 |

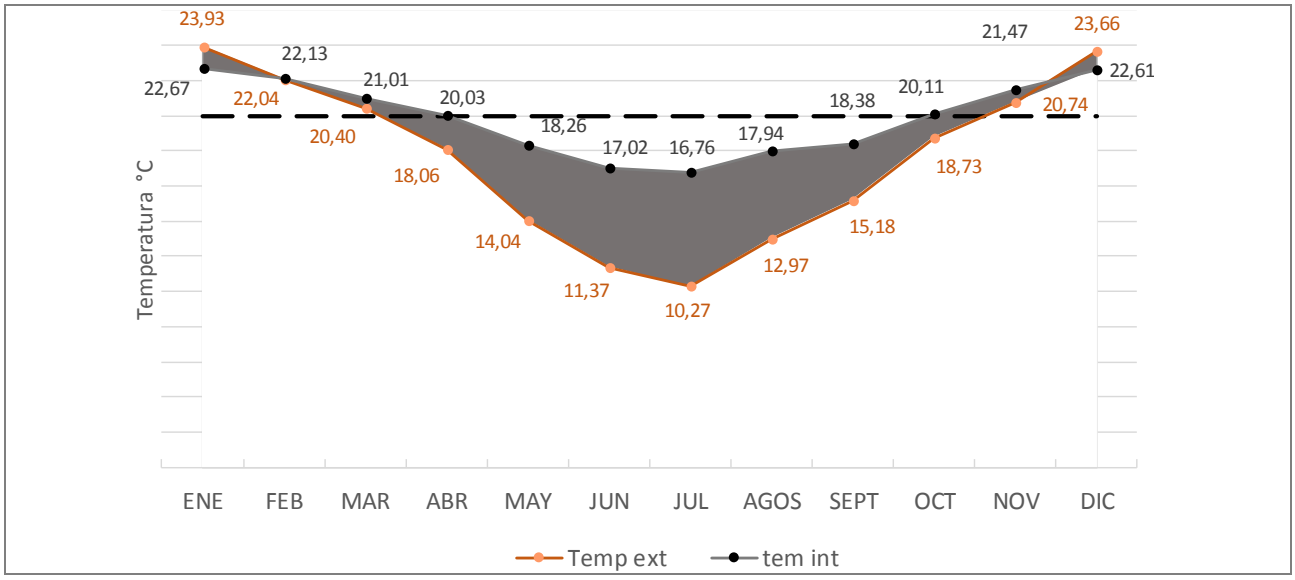
| STL-091 | CU | STEEL FRAME |
|---|---|---|

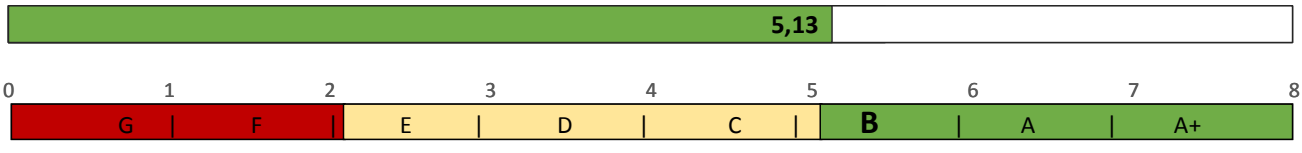
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,34** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,04** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



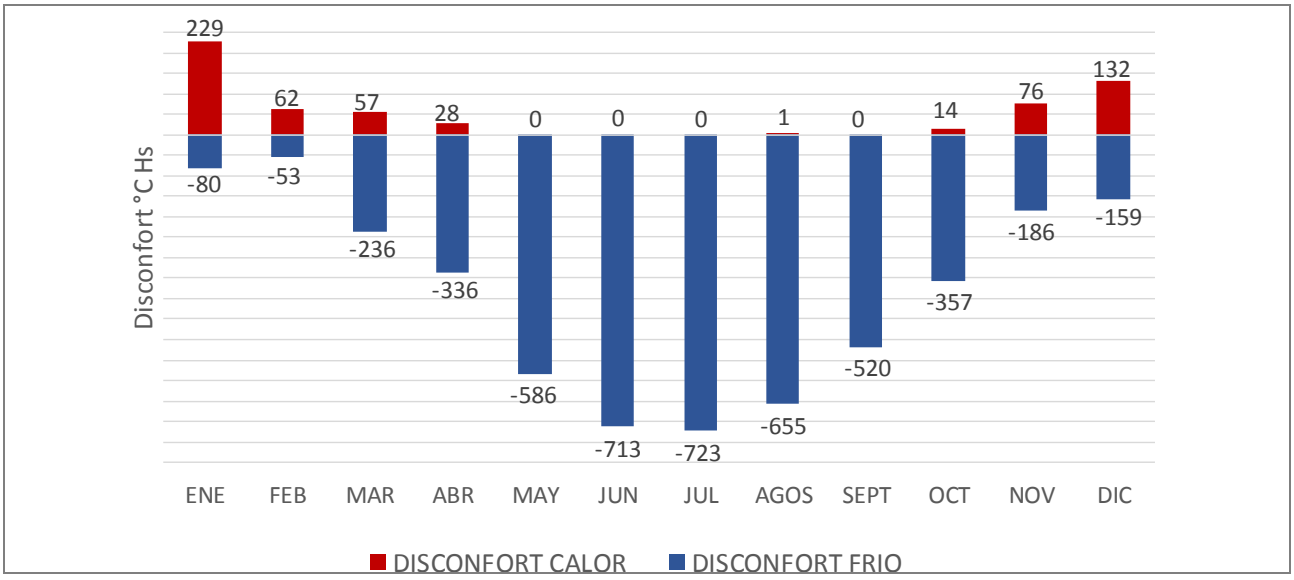




5,13 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-091 | CU | STEEL FRAME |
|---|---|---|

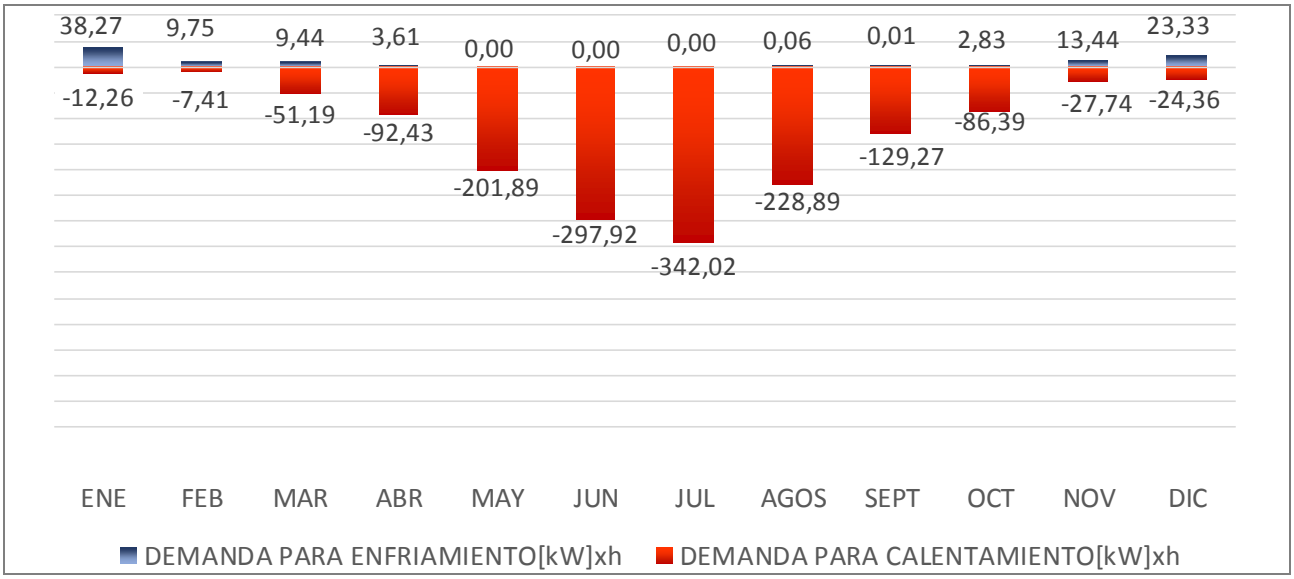
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **599** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.605** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.205** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

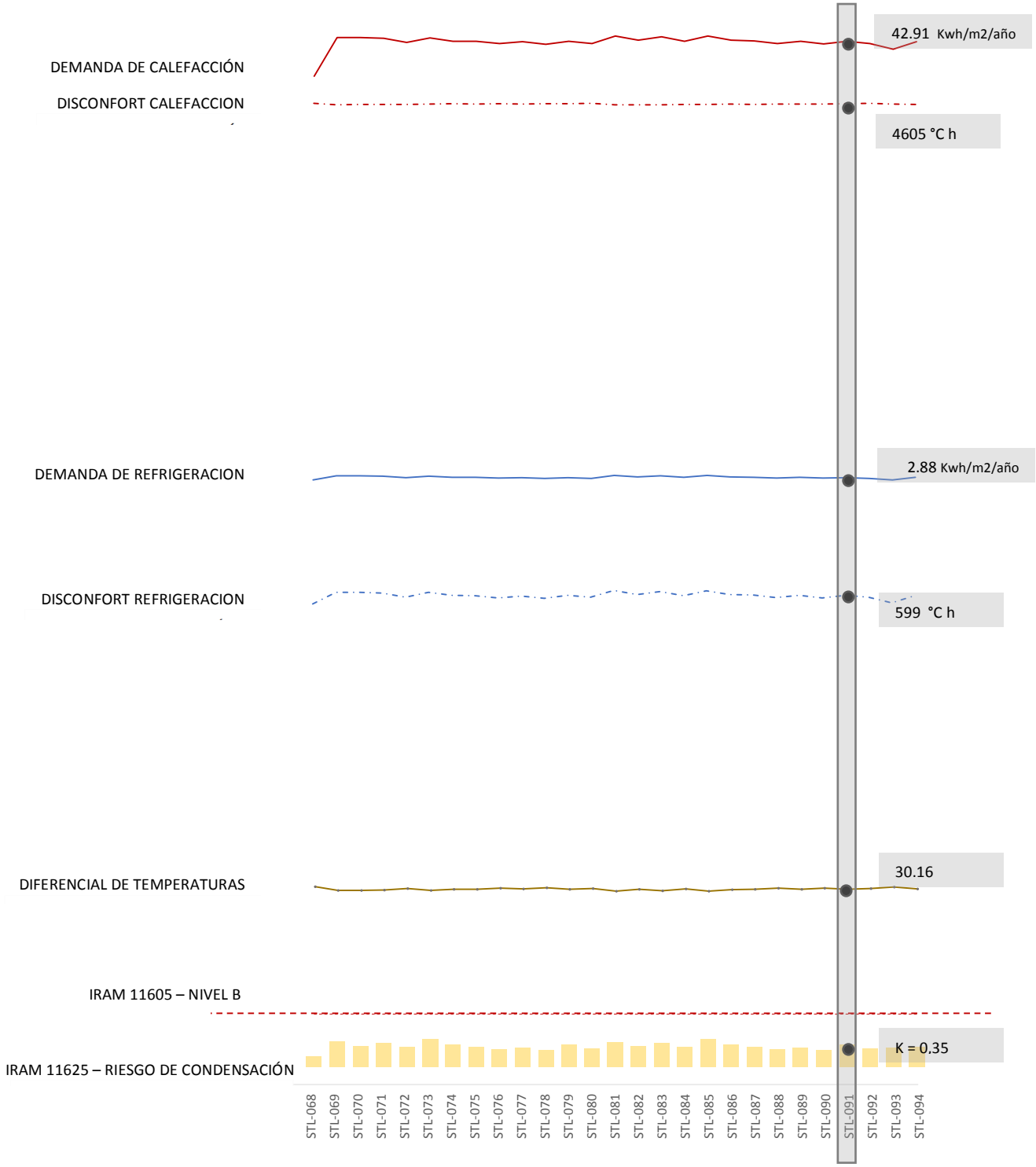



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **100,73** | kWh | 2,88 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.501,78** | kWh | 42,91 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.602,51** | kWh | **45,79** | kWh/m2/año |

| STL-091 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 034 | N° 028 | N° 063 | N° 071 | N° 108 | N° 070 |



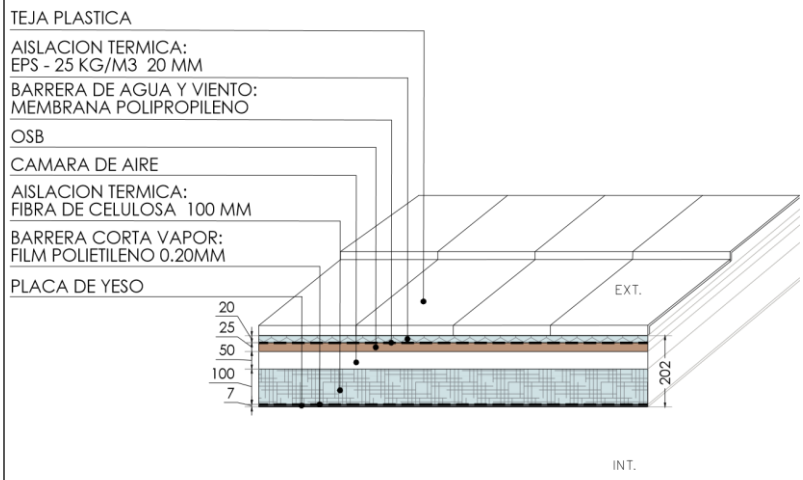

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,35 | 0% | 30,16 | 42,91 | 2,88 | 4605 | 599 |
| INC. FAMILIA | 107,88% | 0% | 99,91% | 100,84% | 97,69% | 100,09% | 100,72% |
| INC. MUNDIAL | 43,21% | 0% | 101,55% | 96,47% | 70,02% | 100,97% | 94,83% |

| STL-092 | CU | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION EXTERIOR EN TEJAS, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA DOBLE: CELULOSA PROYECTADA 100MM / EPS 20MM-DENSIDAD 25KG, HIDROFUGA Y BARRERA CORTAVAPOR

## INDICE DE TRANSMITANCIA TERMICA "K"

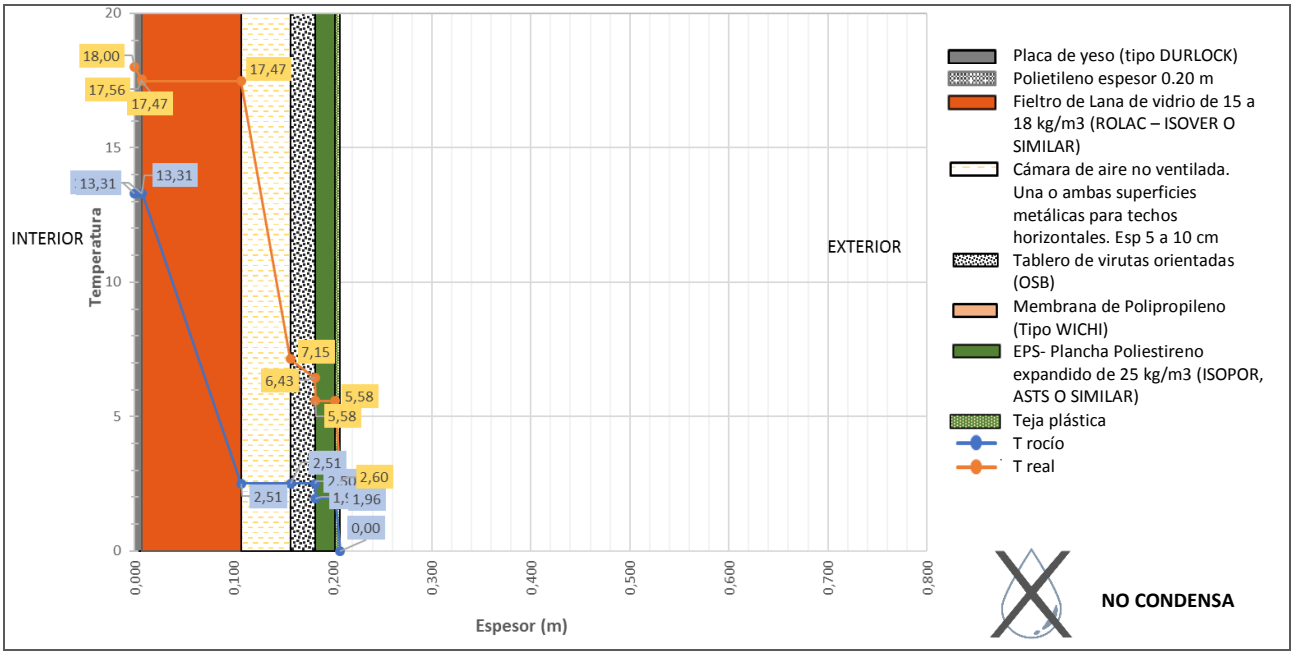
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,28 | 0,29 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-




**NO CONDENSA**

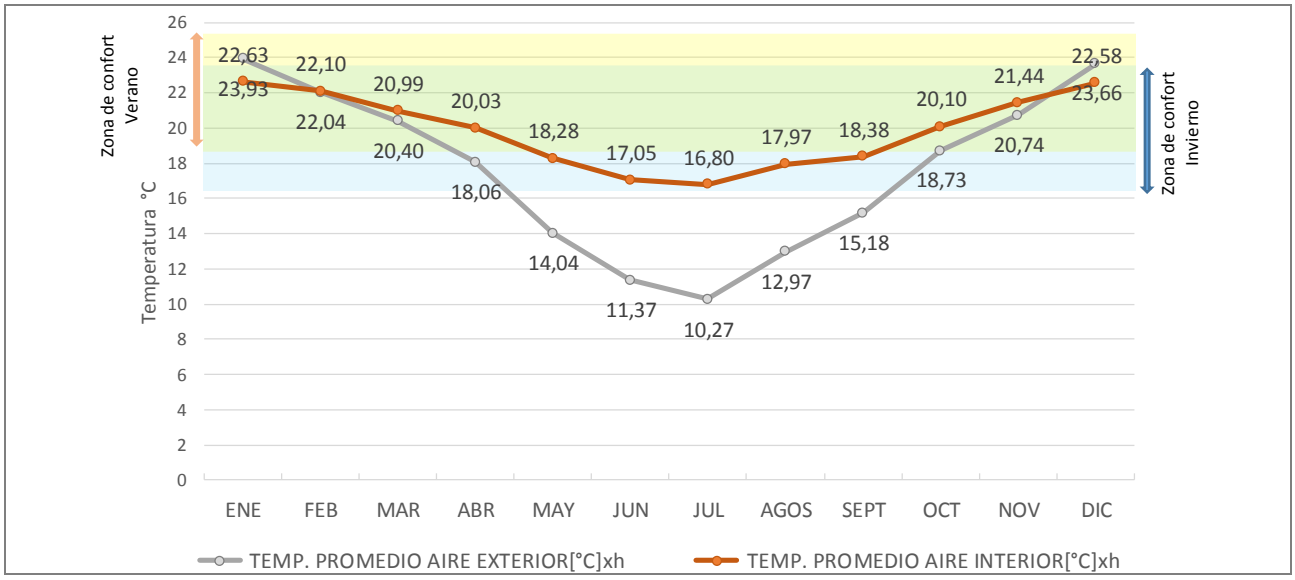
## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 3,6 | 3,7 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,8** | **8,8** |
| | **Amortiguamiento:** | 0,039 | 0,038 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **7,1** | **5,9** |
| | **Amortiguamiento:** | 0,156 | 0,215 |

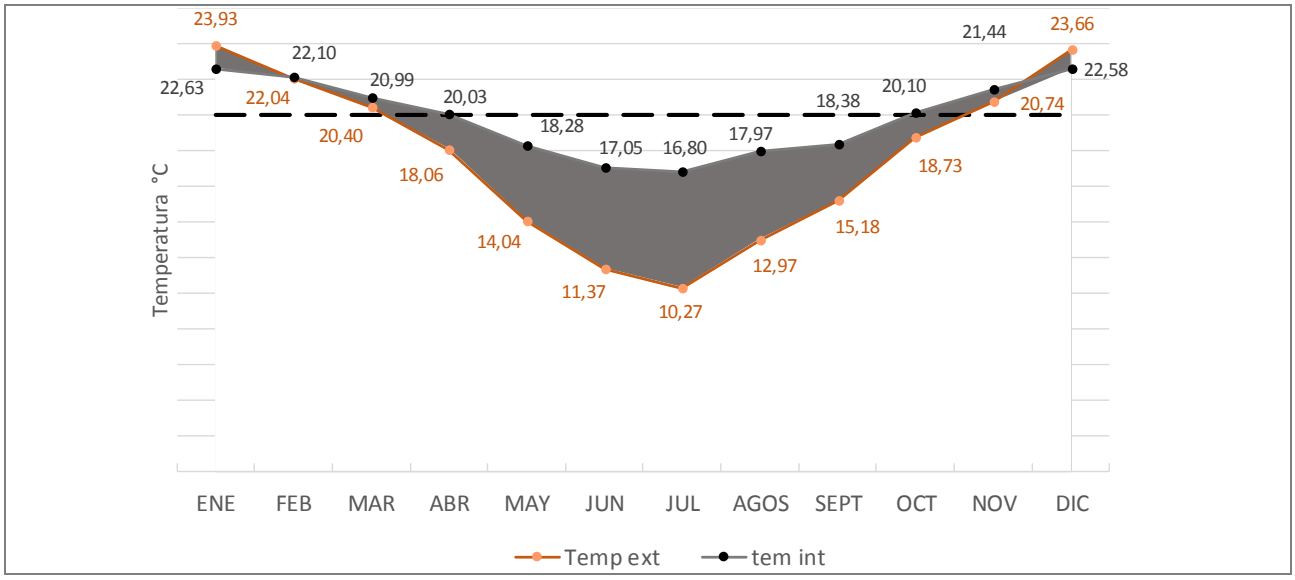
| STL-092 | CU | STEEL FRAME |
|---|---|---|

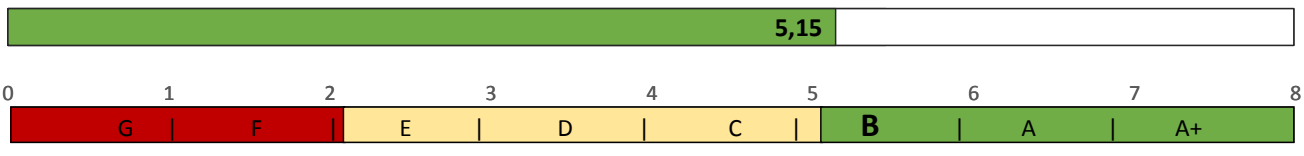
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,21** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,14** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



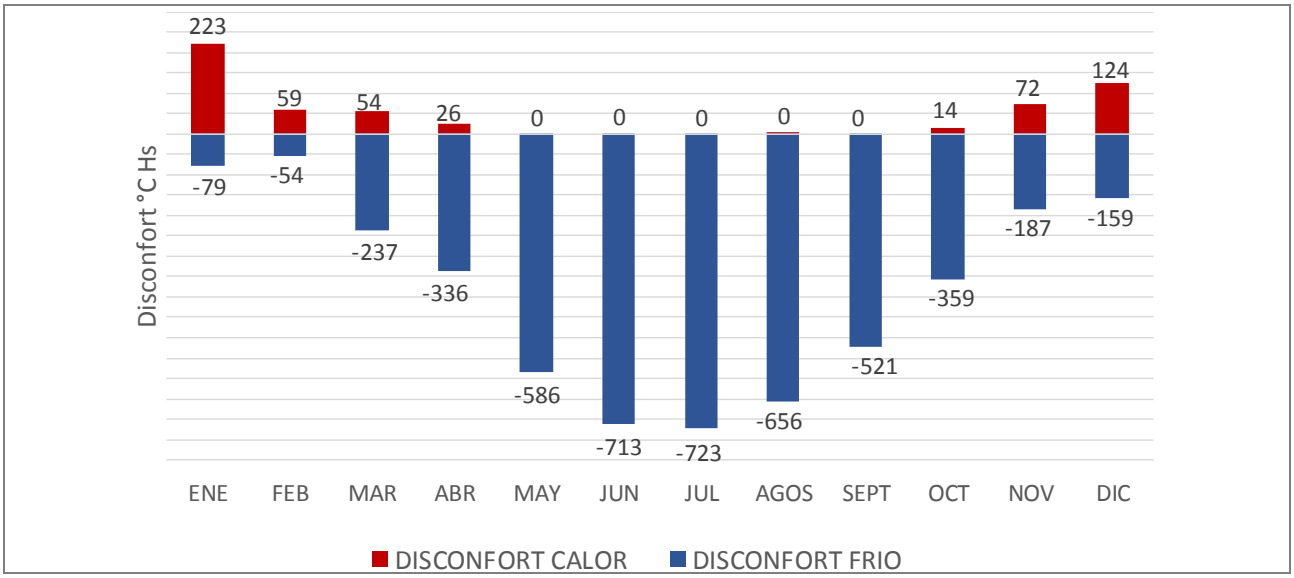




5,15 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,64

| STL-092 | CU | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

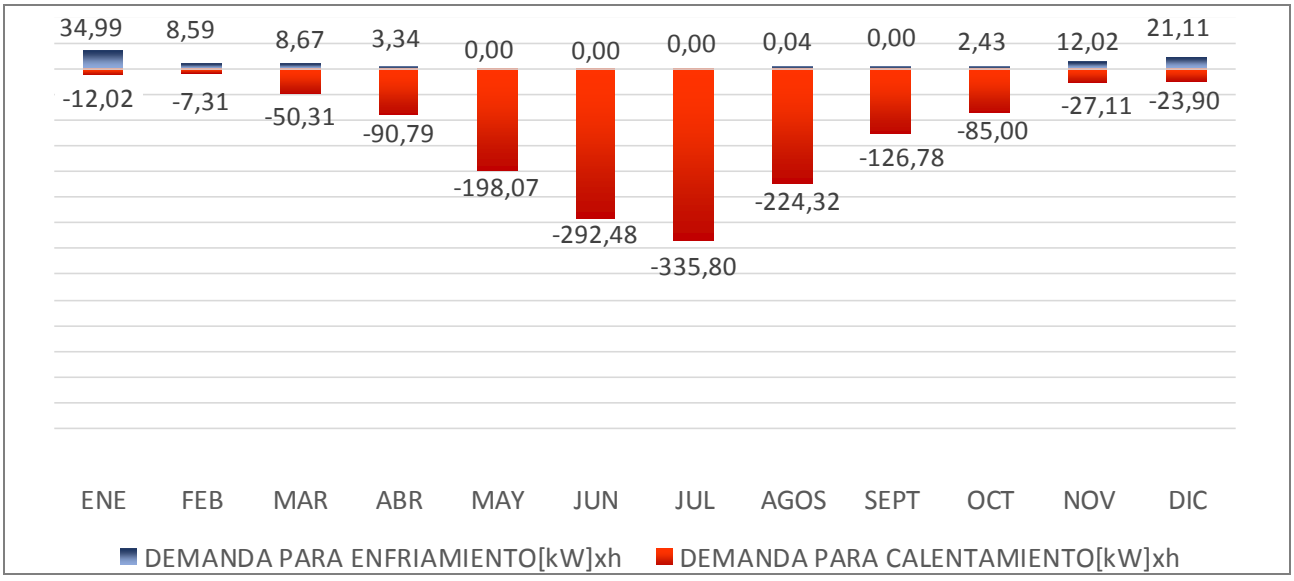
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **572** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.610** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.182** | **°C Hs** | **60%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

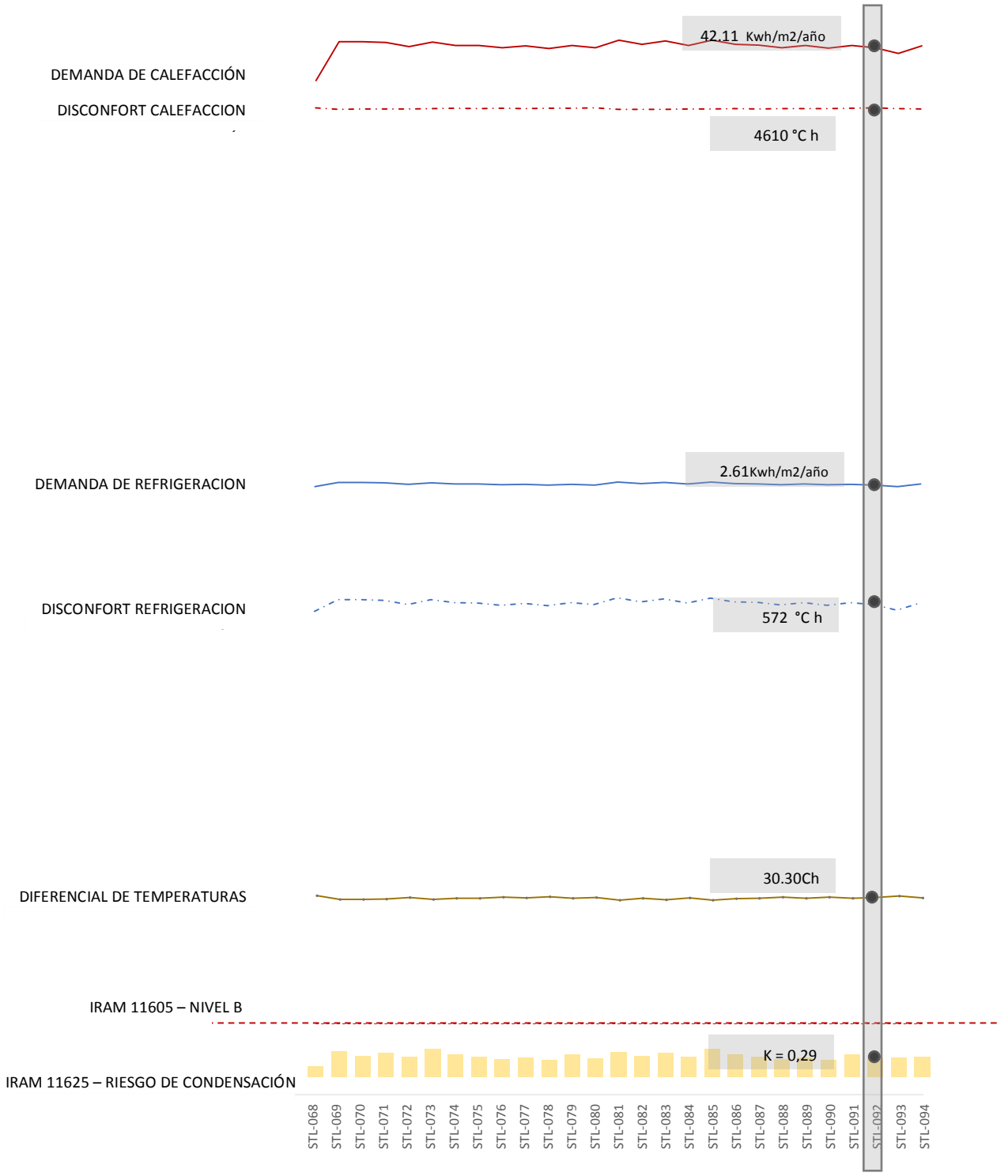



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **91,20** | kWh | 2,61 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.473,89** | kWh | 42,11 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.565,09** | kWh | **44,72** | kWh/m2/año |

| STL-092 | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 012 | N° 013 | N° 052 | N° 057 | N° 113 | N° 058 |



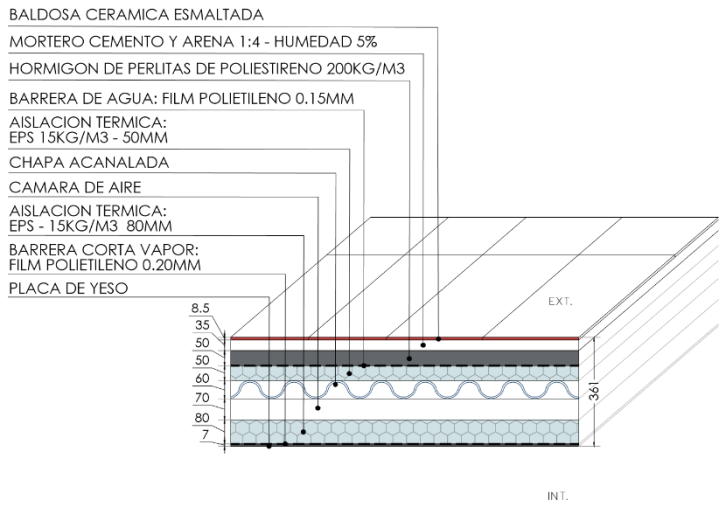

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,29 | 0% | 30,30 | 42,11 | 2,61 | 4610 | 572 |
| INC. FAMILIA | 89,38% | 0% | 100,37% | 98,96% | 88,53% | 100,20% | 96,18% |
| INC. MUNDIAL | 35,80% | 0% | 102,02% | 94,68% | 63,45% | 101,08% | 90,55% |

| STL-093 | EP | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO CON ENCOFRADO PERDIDO DE CHAPA METALICA SINUSOIDAL, CON TERMINACION SUPERIOR CON SOLADOS CON CONTRAPISO DE HORMIGON LIVIANO Y CARPETA NIVELADORA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE.

## INDICE DE TRANSMITANCIA TERMICA "K"

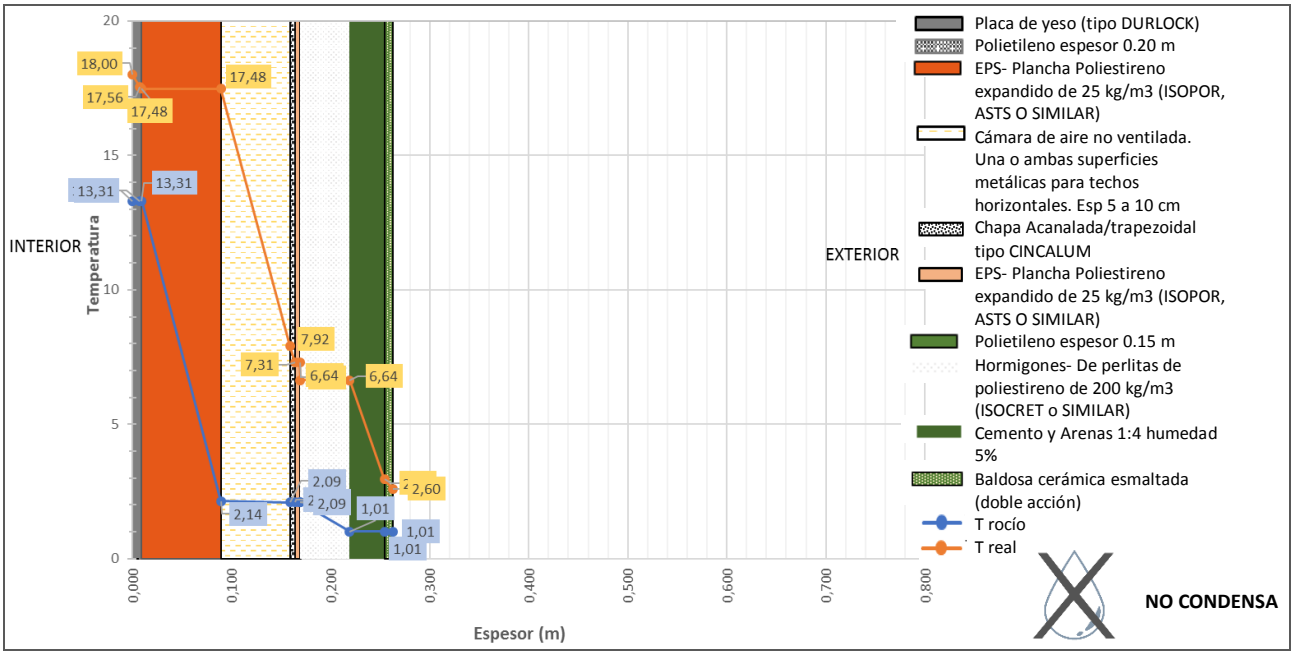
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,28 | 0,29 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



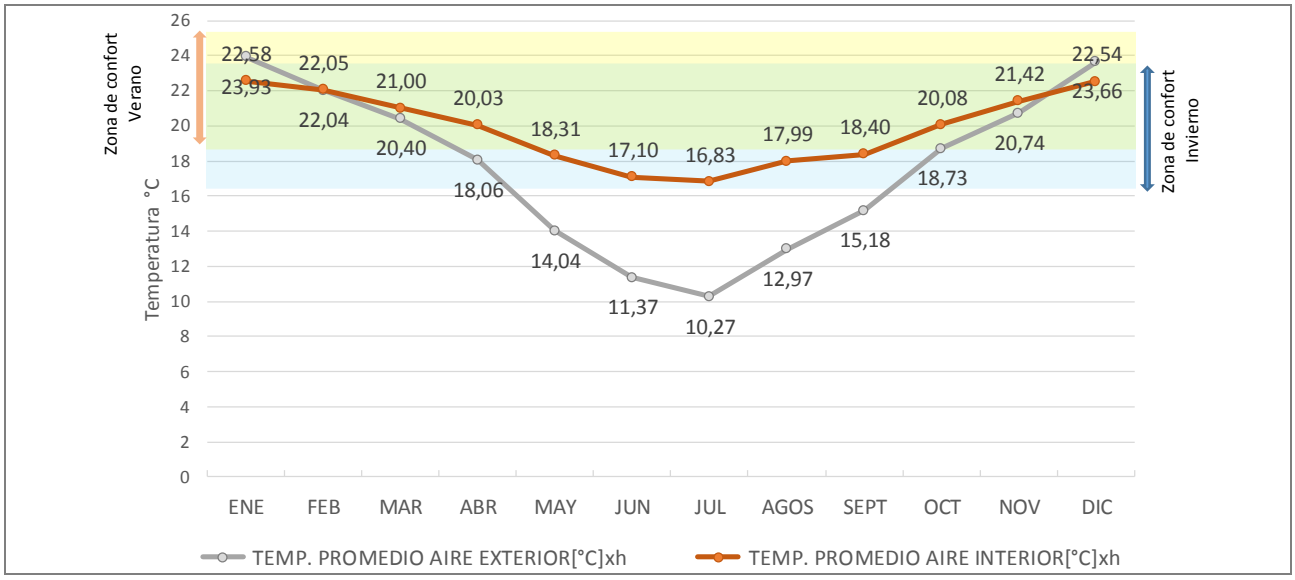

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 7,9 | 7,1 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **13,0** | **12,4** |
| | **Amortiguamiento:** | 0,008 | 0,010 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **12,3** | **4,7** |
| | **Amortiguamiento:** | 0,040 | 0,290 |

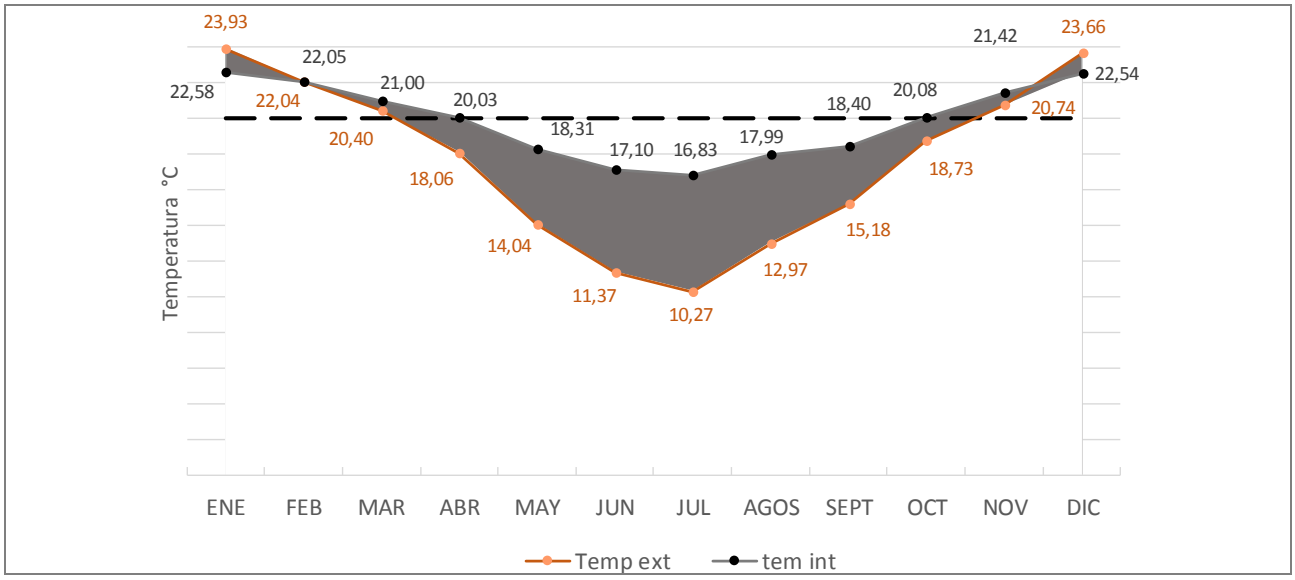
| STL-093 | EP | STEEL FRAME |
|---|---|---|

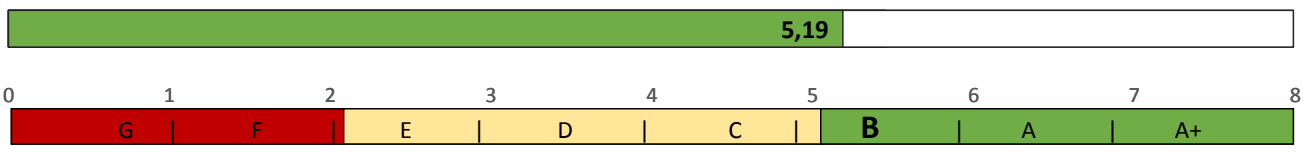
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **25,92** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,37** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



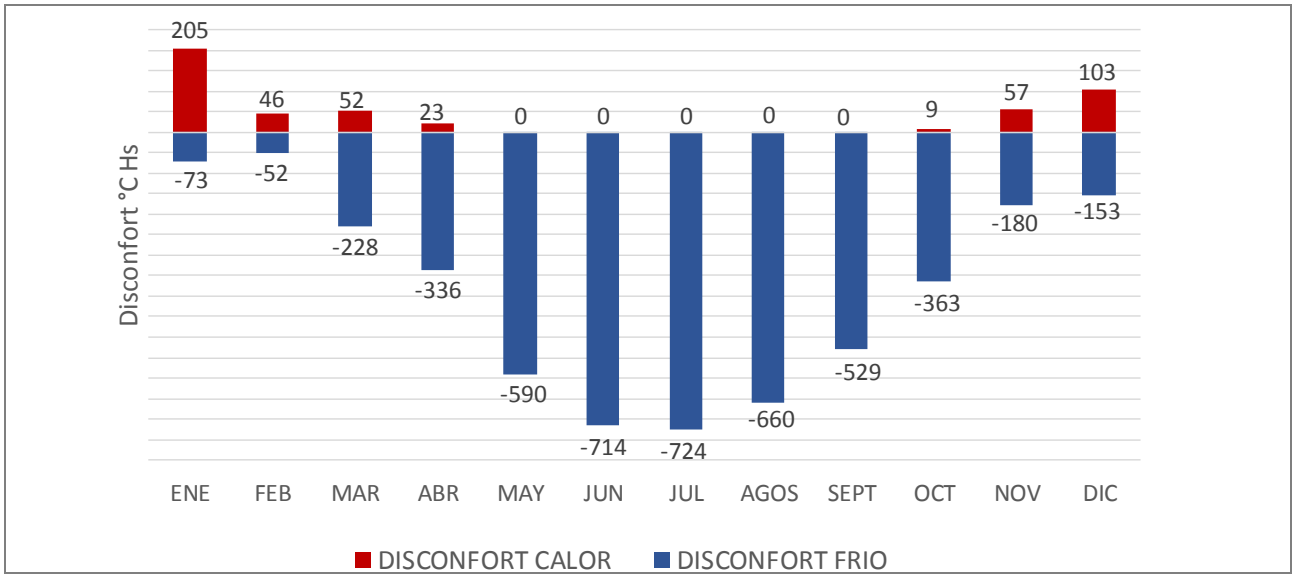




5,19 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0,65

| STL-093 | EP | STEEL FRAME |
|---|---|---|

## DISCONFORT HIGROTERMICO - °C h

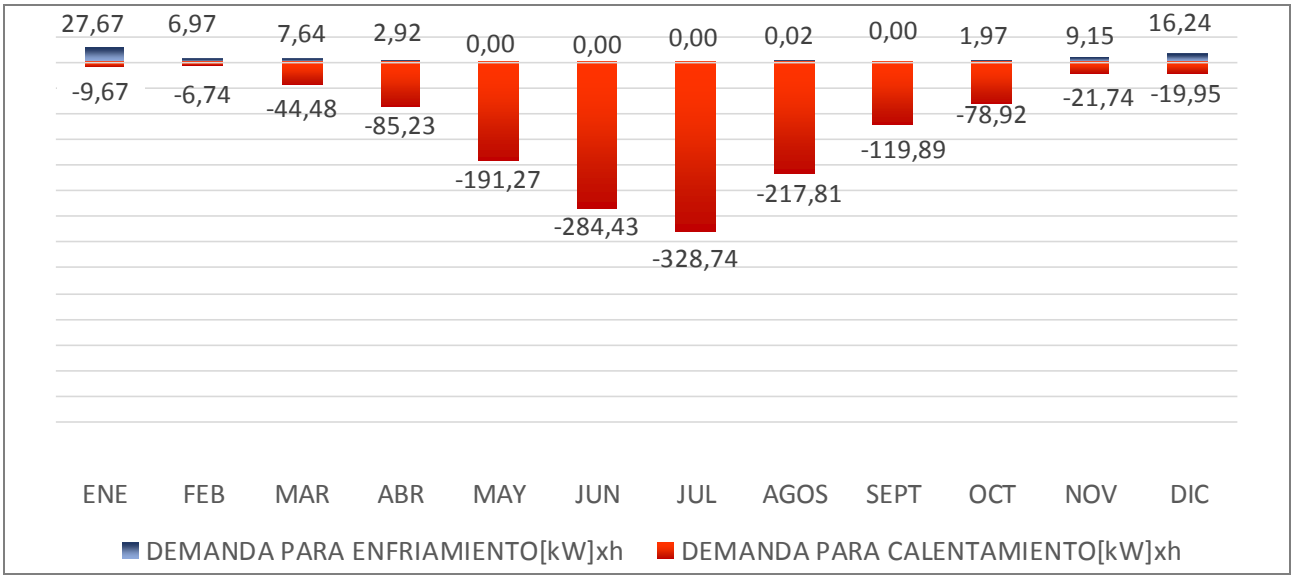
REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **495** | °C Hs | 6% |
| HORAS DE DISCONFORT POR FRÍO | **4.601** | °C Hs | 53% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.097** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh

REGIMEN DINAMICO E-PLUS /8760 HS

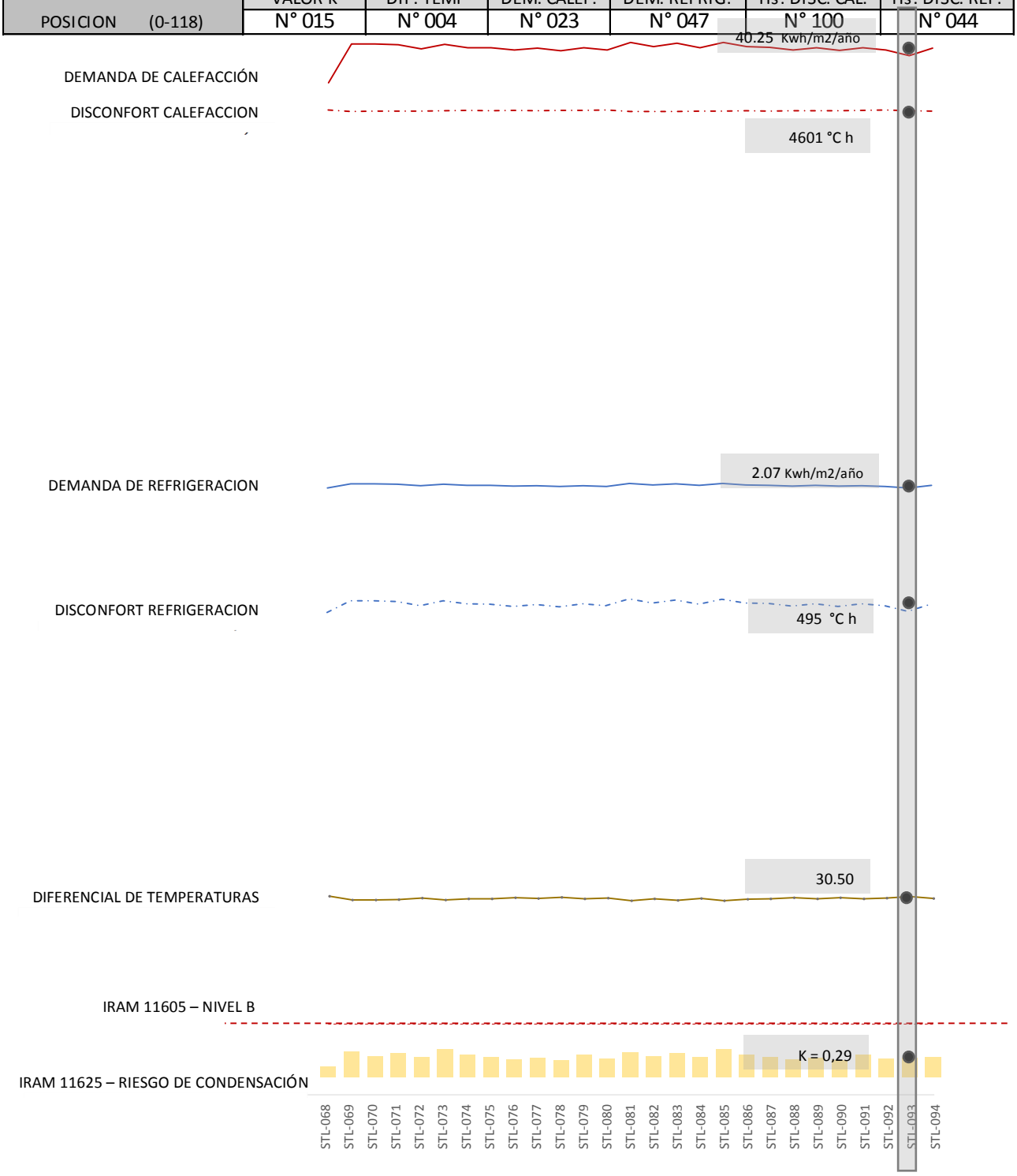



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **72,57** | kWh | 2,07 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.408,87** | kWh | 40,25 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.481,45** | kWh | **42,33** | kWh/m2/año |

| STL-093 | EP | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 015 | N° 004 | N° 023 | N° 047 | N° 100 | N° 044 |



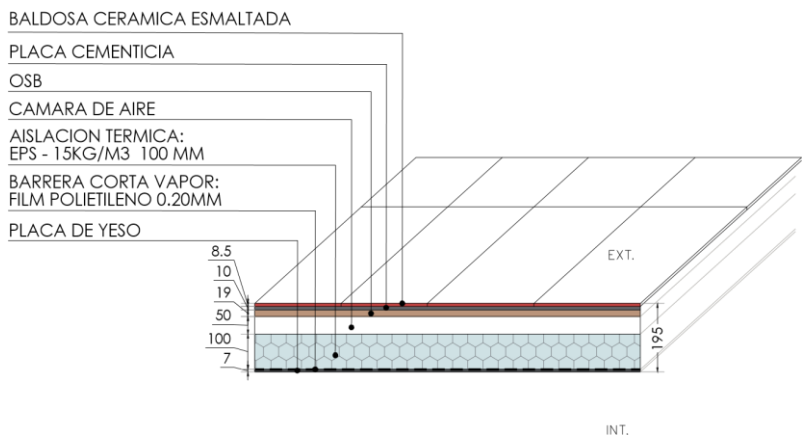

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,29 | 0% | 30,50 | 40,25 | 2,07 | 4601 | 495 |
| INC. FAMILIA | 89,38% | 0% | 101,03% | 94,59% | 70,21% | 100,00% | 83,23% |
| INC. MUNDIAL | 35,80% | 0% | 102,70% | 90,49% | 50,33% | 100,88% | 78,36% |

| STL-094 | EP | STEEL FRAME |
|---|---|---|

ENTRAMADO ESTRUCTURAL DE ACERO, CON TERMINACION SUPERIOR CON SOLADOS CON CARPETA NIVELADORA, E INTERIOR DE PLACA DE YESO, CON AISLACION TERMICA SIMPLE Y MULTILAMINADO FENOLICO.

## INDICE DE TRANSMITANCIA TERMICA "K"

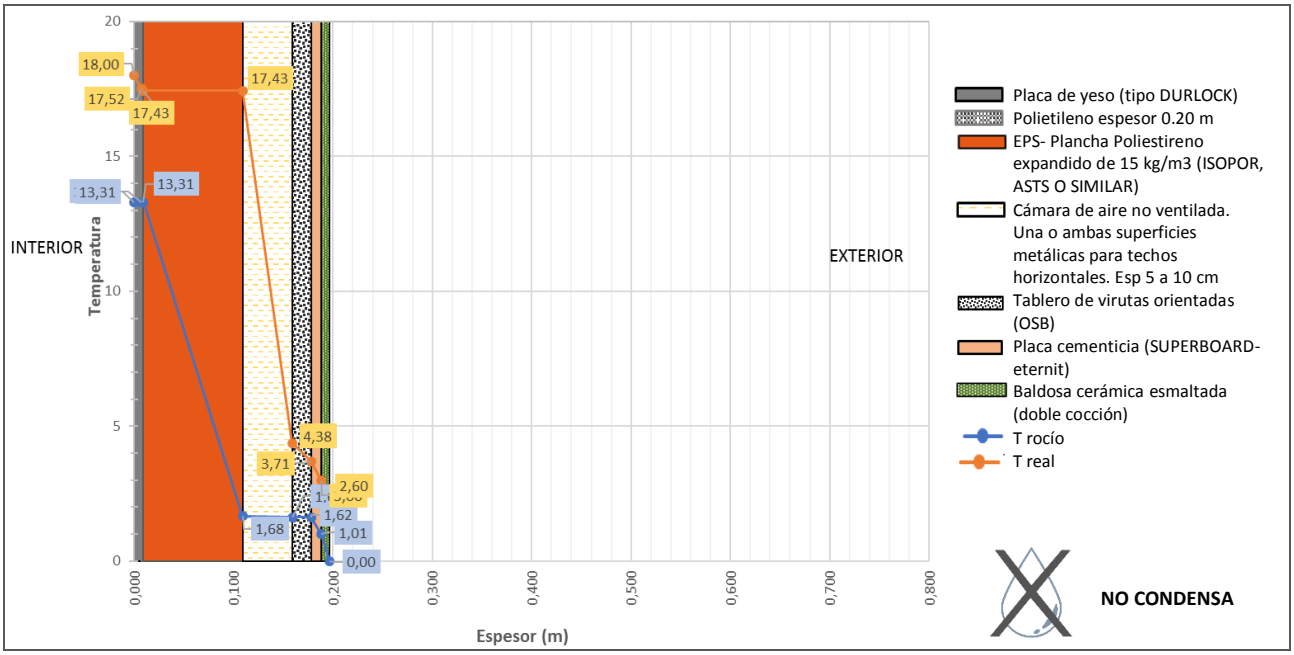
REGIMEN ESTATICO ESTACIONAL -*IRAM 11.605*-




| 0,31 | 0,31 |
|---|---|
| verifica verano | verifica invierno |

## RIESGO DE CONDENSACION

REGIMEN ESTATICO ESTACIONAL -*IRAM 11.625*-



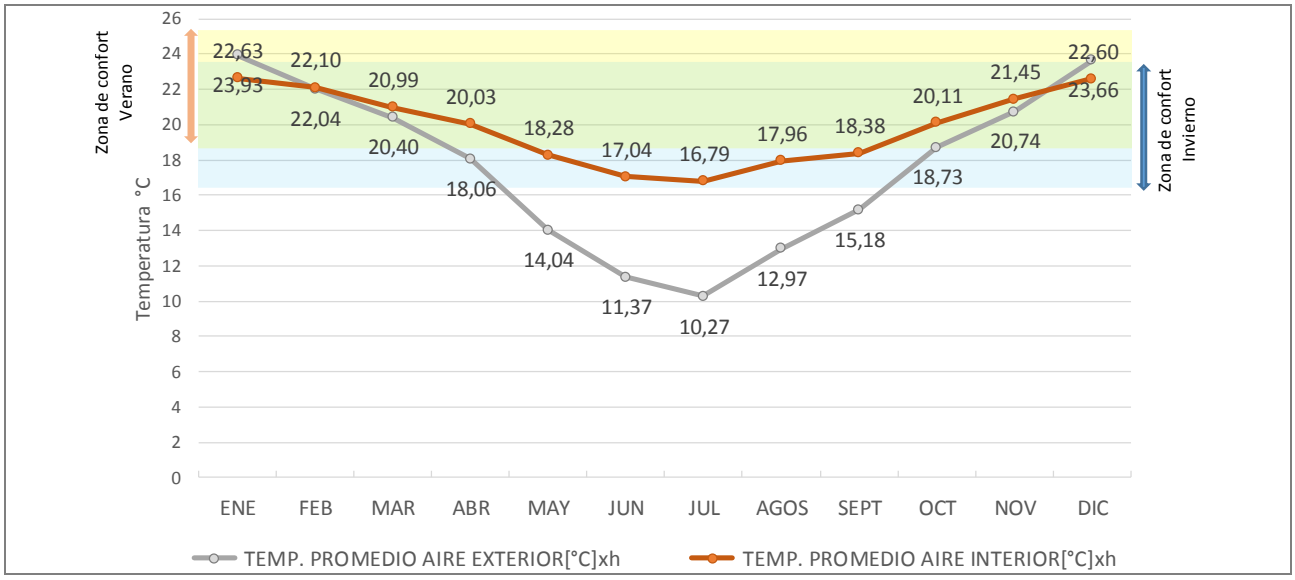

## CALCULO DE RETARDO TERMICO Y AMORTIGUAMIENTO

REGIMEN ESTATICO

| | | verano | Invierno |
|---|---|---|---|
| | ADMISIVIDAD EQUIVALENTE | 4,1 | 3,3 |
| (s/ Método MacKey y Wright) | **Retardo Térmico: horas** | **8,5** | **7,6** |
| | **Amortiguamiento:** | 0,043 | 0,059 |
| s/ Método Raychaudhury y Chaudhury | **Retardo Térmico: horas** | **8,3** | **3,3** |
| | **Amortiguamiento:** | 0,113 | 0,417 |

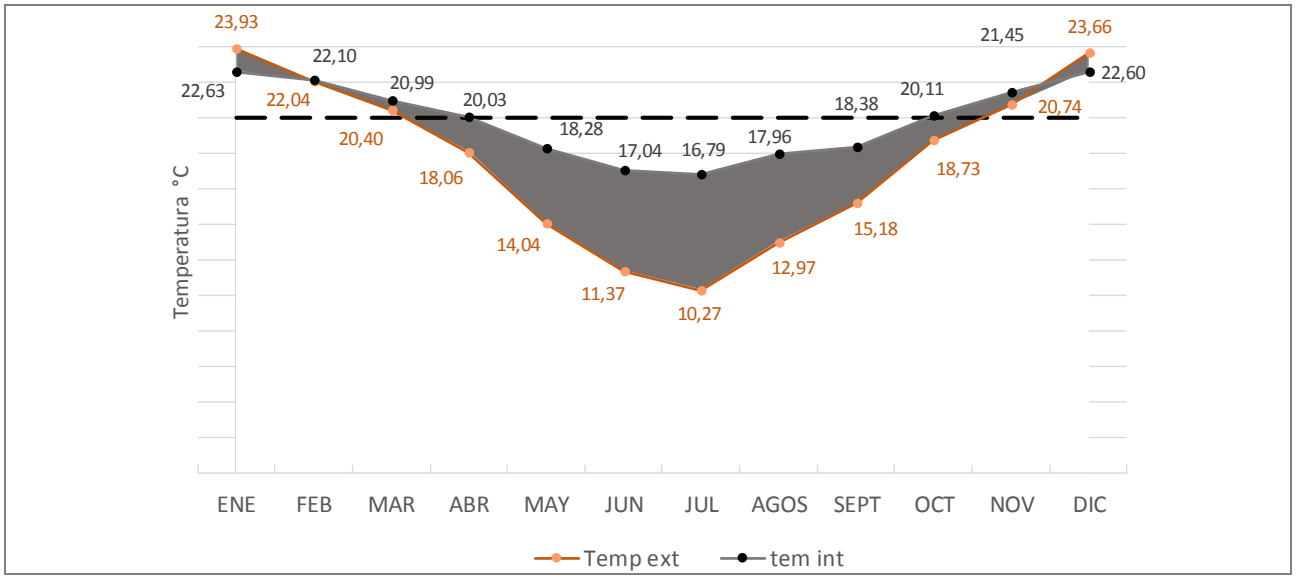
| STL-094 | EP | STEEL FRAME |
|---|---|---|

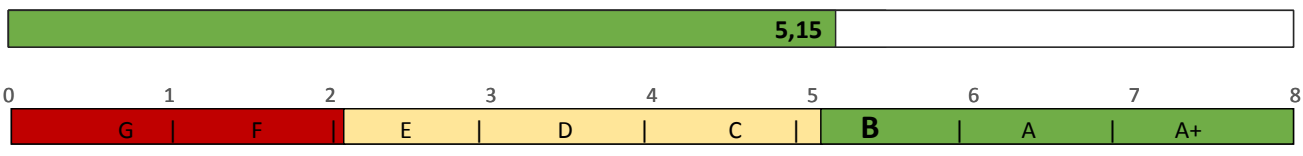
## TEMPERATURA DE AIRE PROMEDIO MENSUAL - °C REGIMEN DINAMICO E-PLUS /8760 HS




| | | | |
|---|---|---|---|
| TEMPERATURA **MÁX** INTERIOR SEGÚN CALCULO | 05/01 18:00 hs | **26,42** | °C |
| TEMPERATURA **MÍN** INTERIOR SEGÚN CALCULO | 24/07 09:00 hs | **13,04** | °C |

## PERCENTIL COMPARTIVO T° CONFORT IDEAL REGIMEN DINAMICO E-PLUS /8760 HS



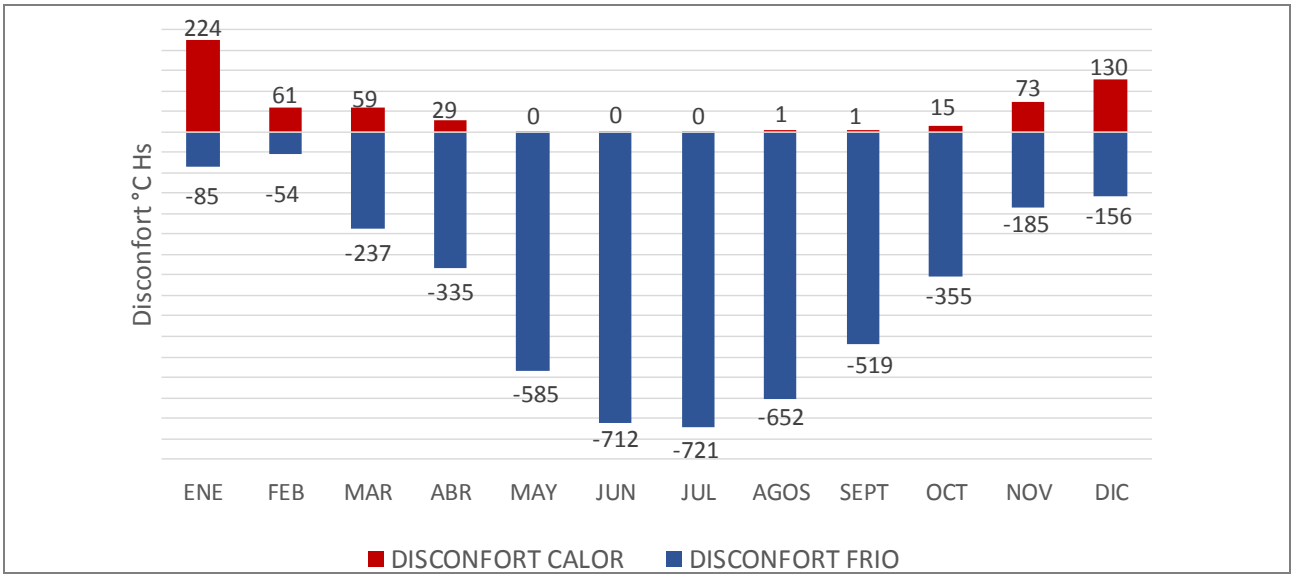




5.15 PUNTOS DE 8 POSIBLES- PERCENTIL (0-1): 0.64

| STL-094 | EP | STEEL FRAME |
|---|---|---|

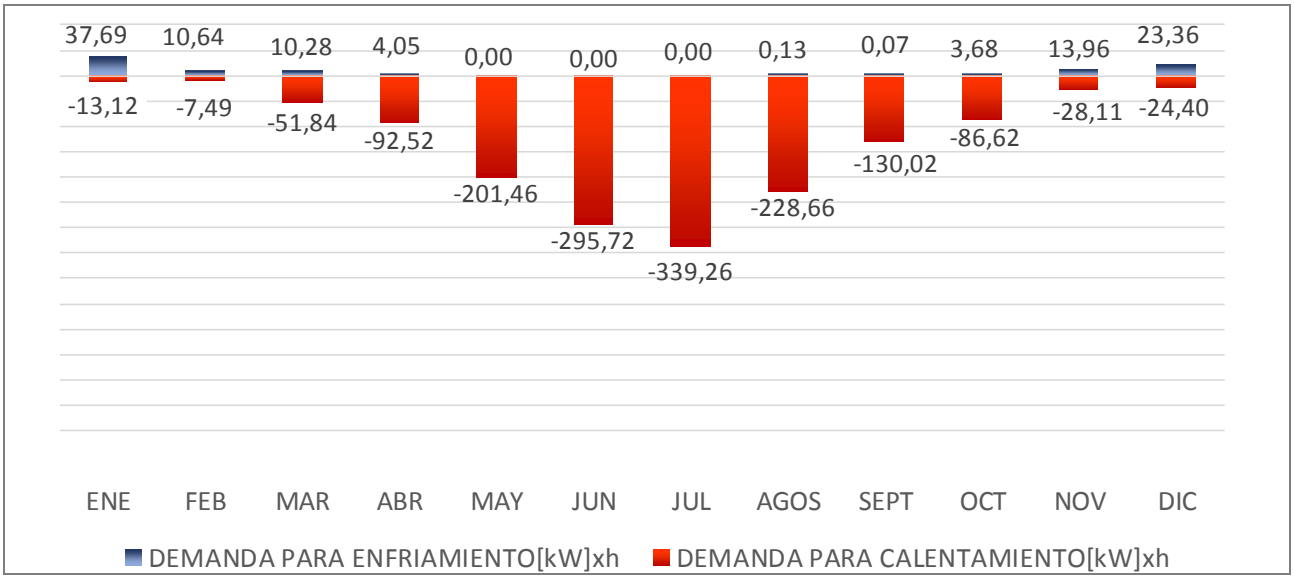
## DISCONFORT HIGROTERMICO - °C h

REGIMEN DINAMICO E-PLUS /8760 HS




| | CANT | | PORC |
|---|---|---|---|
| HORAS DE DISCONFORT POR CALOR | **592** | °C Hs | 7% |
| HORAS DE DISCONFORT POR FRÍO | **4.597** | °C Hs | 52% |
| **HORAS DE DISCONFORT TOTAL (SOBRE BASE 8760 HS)** | **5.189** | **°C Hs** | **59%** |

## DEMANDA ENERGETICA PARA CLIMATIZACION-kWh REGIMEN DINAMICO E-PLUS /8760 HS

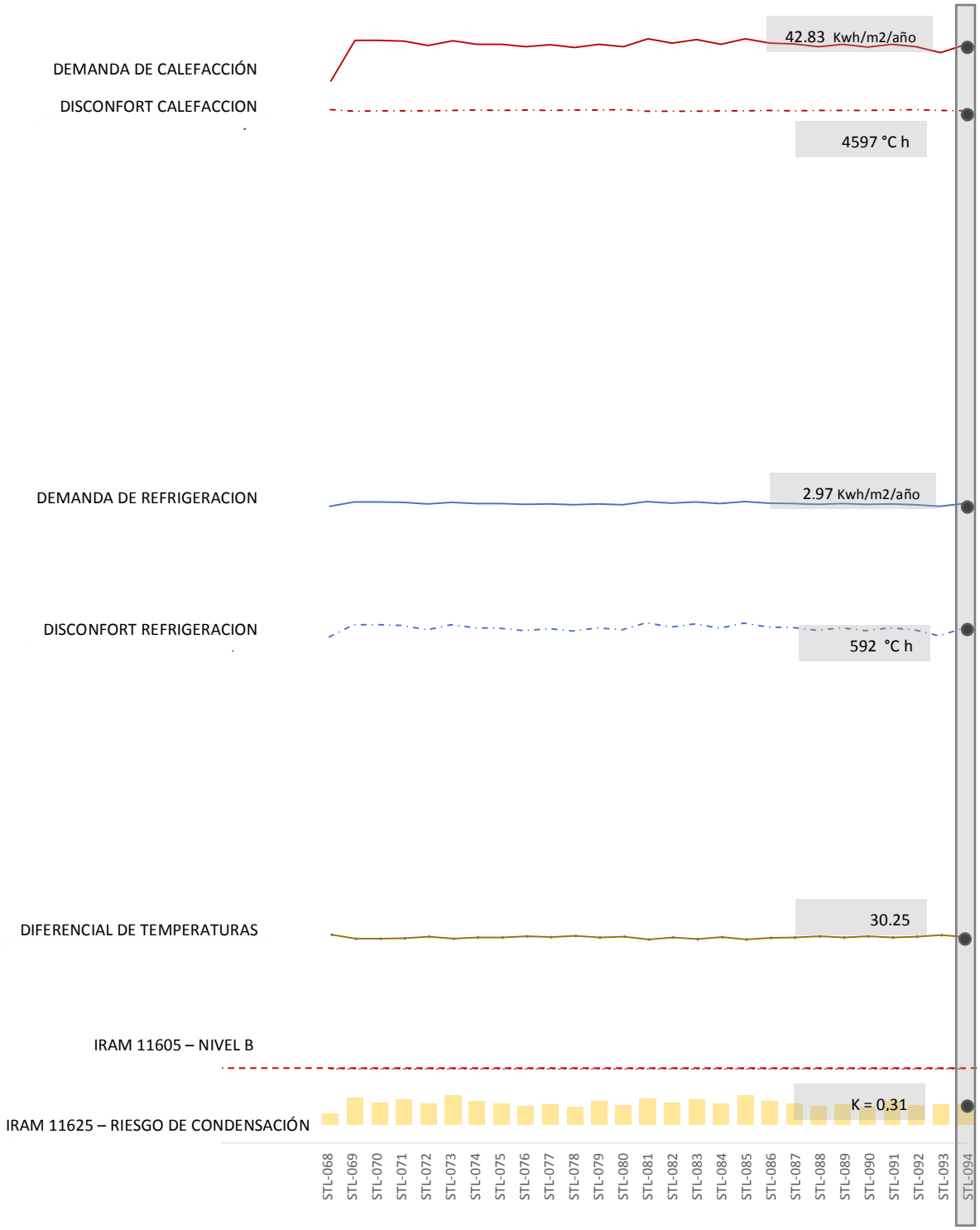



| | CANT | | IPE | |
|---|---|---|---|---|
| DEMANDA ENERGETICA TOTAL PARA REFRIGERACIÓN | **103,84** | kWh | 2,97 | kWh/m2/año |
| DEMANDA ENERGETICA TOTAL PARA CALEFACCIÓN | **1.499,22** | kWh | 42,83 | kWh/m2/año |
| **DEMANDA ENERGETICA TOTAL (ANUAL)** | **1.603,06** | kWh | **45,80** | kWh/m2/año |

| STL-094 | EP | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

| POSICION (0-118) | VALOR K | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|
| | N° 020 | N° 017 | N° 060 | N° 079 | N° 093 | N° 064 |




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0,81 | 48% | 29,70 | 44,48 | 4,11 | 4561 | 632 |
| FAMILIA | 0,32 | 0% | 30,19 | 42,55 | 2,95 | 4601 | 595 |
| INDIVIDUAL | 0,31 | 0% | 30,25 | 42,83 | 2,97 | 4597 | 592 |
| INC. FAMILIA | 95,55% | 0% | 100,20% | 100,65% | 100,74% | 99,92% | 99,54% |
| INC. MUNDIAL | 38,27% | 0% | 101,85% | 96,29% | 72,21% | 100,79% | 93,72% |

# IV
# DIAGNOSTICO COMPARATIVO

Uno de los objetivos del presente Atlas, es disponer de datos comparativos de performance, dentro de rangos concretos, ya sea dentro de las propias familias tecnológicas o en las distintas familias entre sí, también se propone un ranking comparativo dentro del universo de las unidades tecnológicas asentadas hasta la fecha (314 unidades en 19 familias), a su vez subdivididos en 2 categorías topológicas (muros y cubiertas). (FIG 1), y finalmente categorizadas de acuerdo a otra variable en consideración que es, su vía tecnológica principal, vía seca o húmeda.

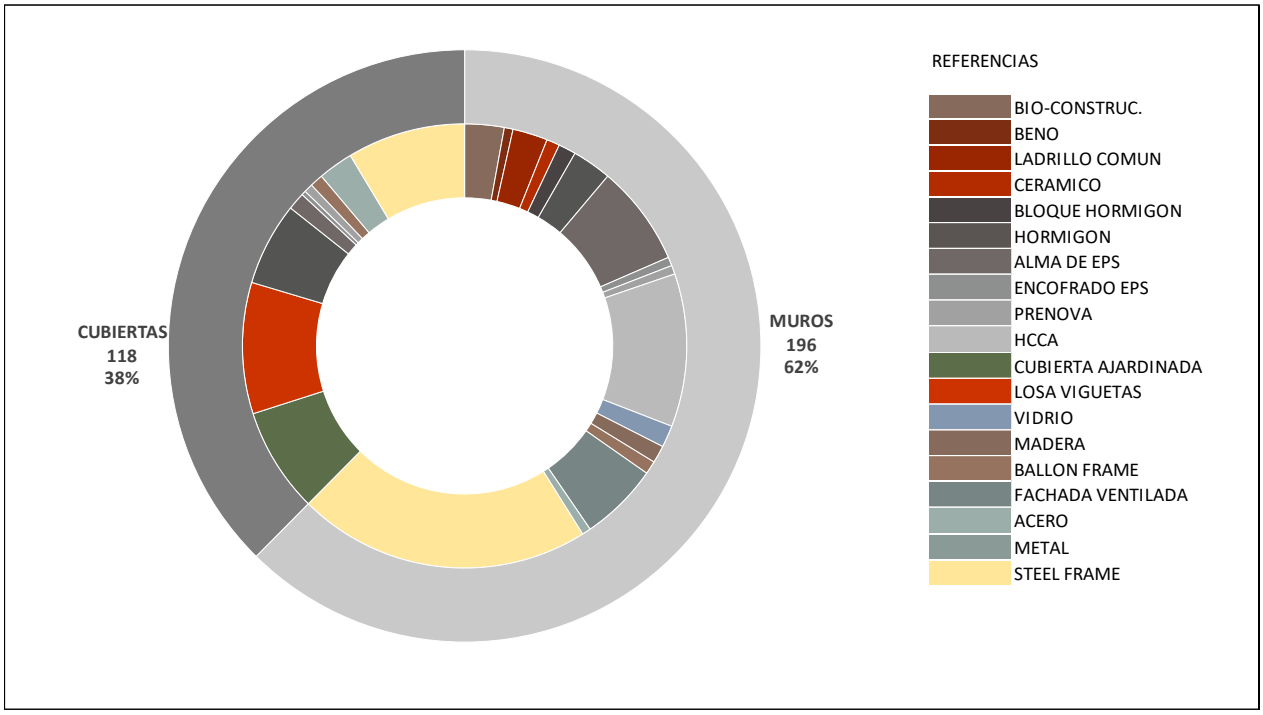



FIGURA 1 – FAMILIAS TECNOLÓGICAS SEGÚN DISPOSICIÓN TOPOLÓGICA-ESPACIAL

El número de componentes de cada familia varía, siendo la categoría STEEL FRAME, la más numerosa, (94 ejemplos en total), representando el 30 % del total.

Se incorpora por primera vez en alguna base de datos de performance energética, la familia tecnológica de la BIOCONSTRUCCIÓN.

La familia Tecnológica de las CUBIERTAS AJARDINADAS, representa el 7,5 % del total, y si bien algunos ejemplos han sido medidos en relación con su comportamiento energético, se presenta aquí el catálogo más extenso de posibilidades que se hayan medido hasta la fecha de la edición del presente Atlas.

Las unidades tecnológicas más tradicionales (vía húmeda), representan un 56 % del total frente a las industrializadas (vía seca) 44 %. (FIG. 2)

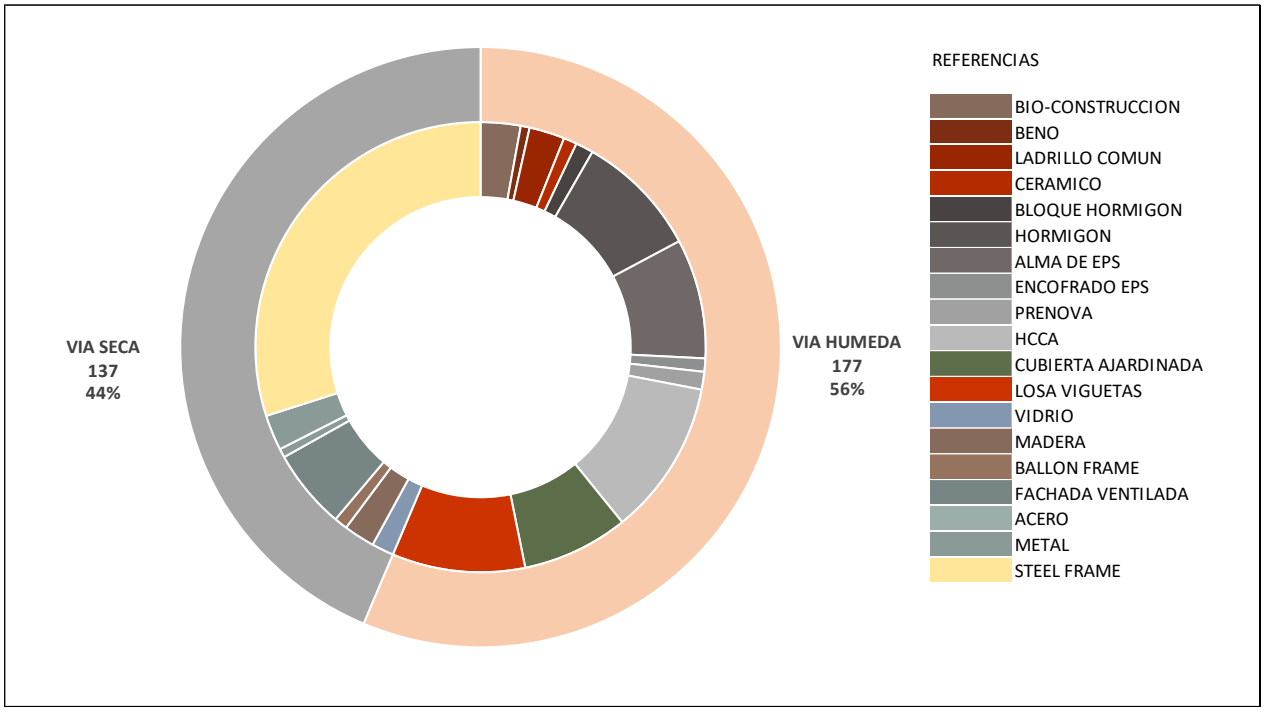
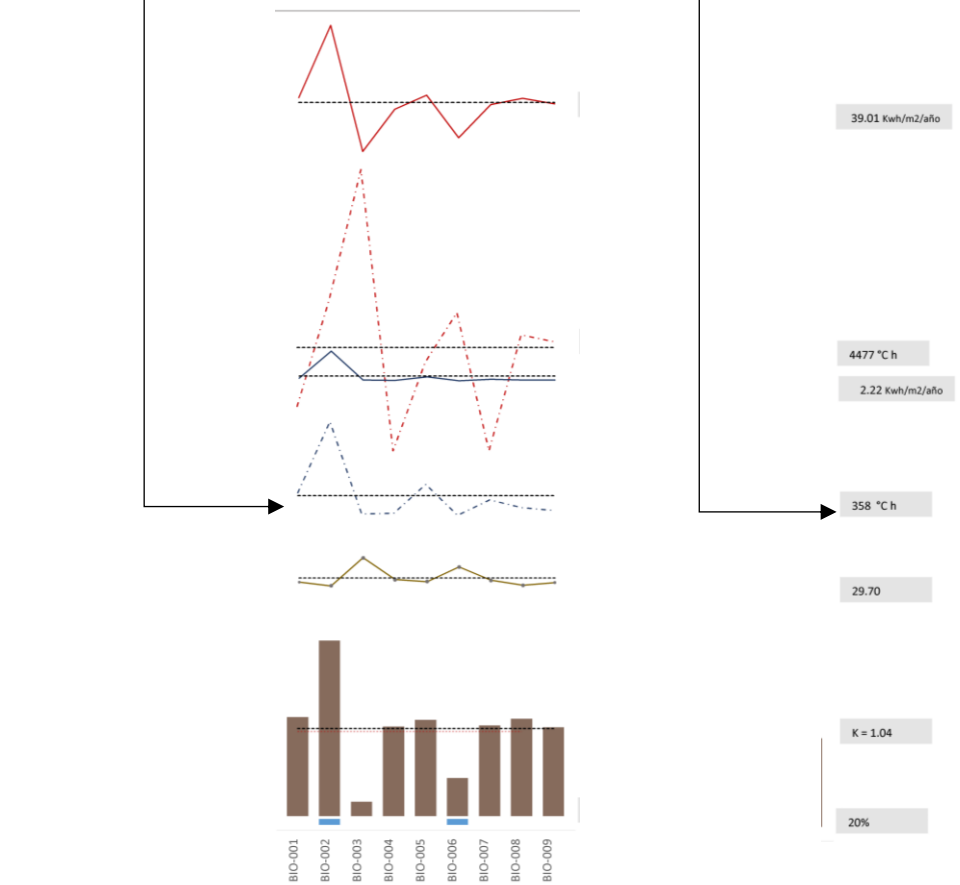



FIGURA 2 – FAMILIAS TECNOLÓGICAS SEGÚN VIA CONSTRUCTIVA.

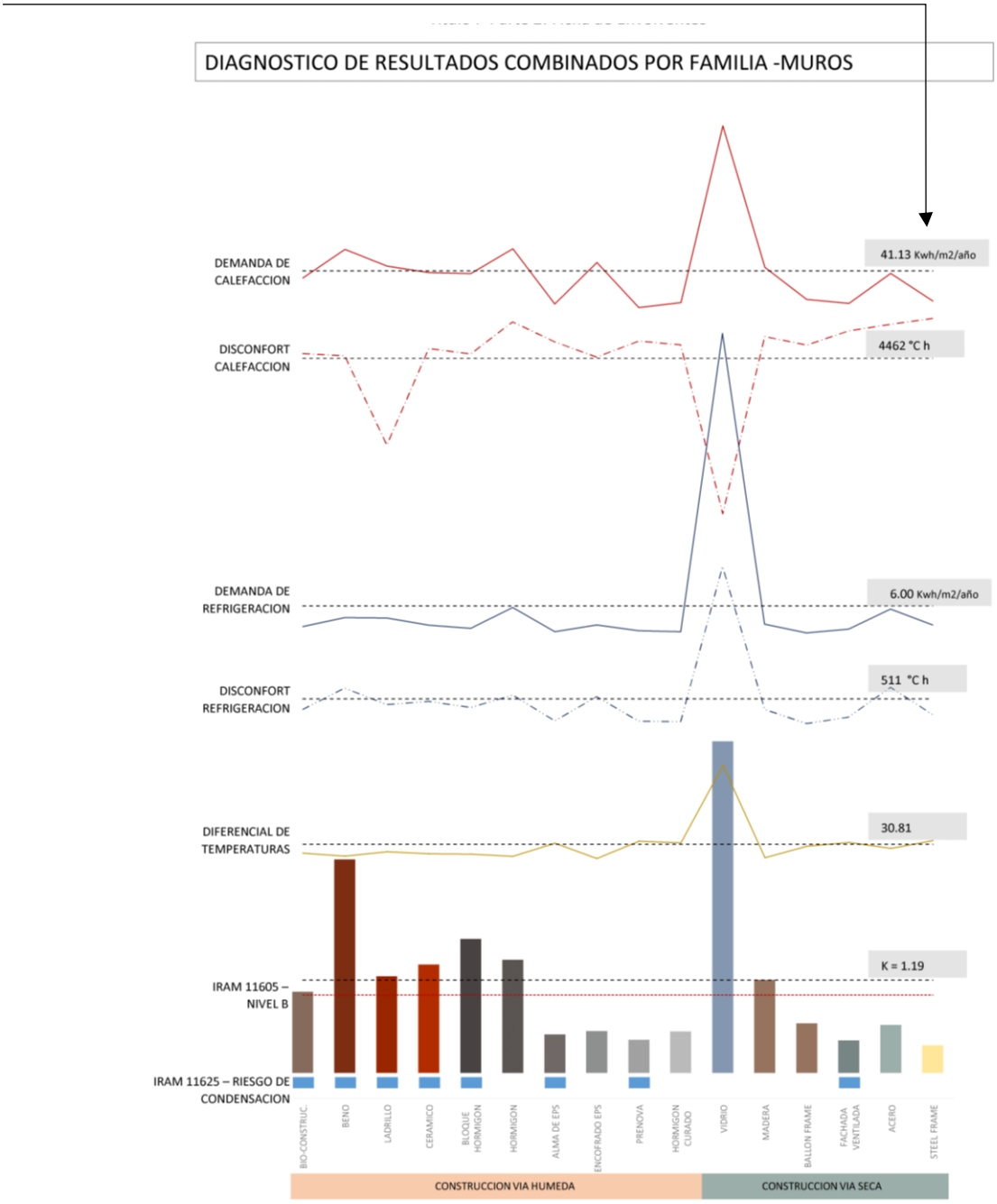
Se presenta primero, los diagnósticos combinados internos de cada una de las 19 familias, para las 7 variables de diagnóstico en cuestión, y un promedio familiar comparativo por variable.



También se presenta una tabla de incidencia familiar respecto del promedio establecido para el universo de variables conocido.

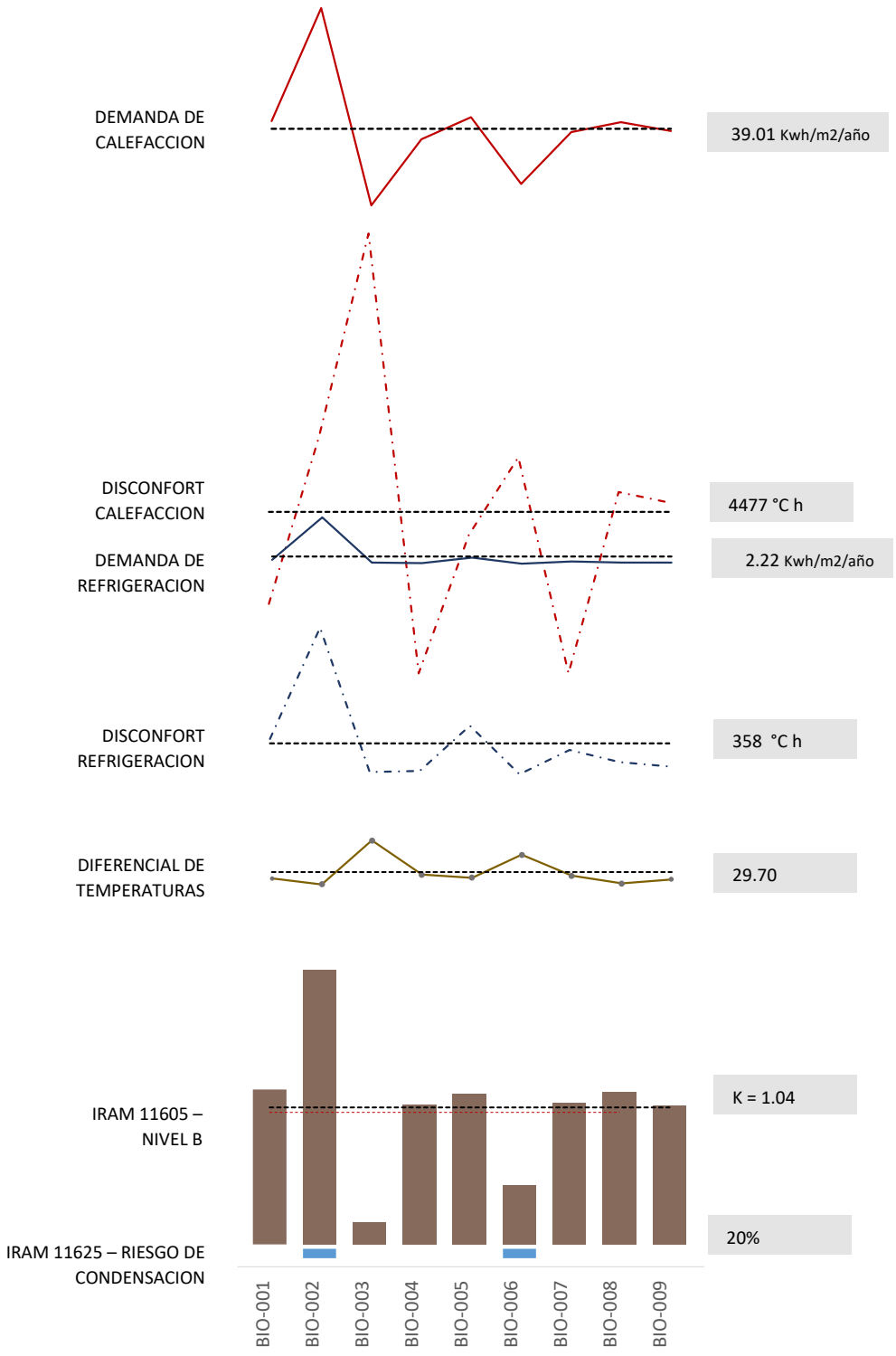
| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 2.74 | 50% | 29.33 | 47.81 | 3.83 | 4470 | 672.5 |
| INCIDENCIA | 230% | 179% | 95% | 116% | 64% | 100% | 132% |

Finalmente, en este primer apartado de diagnóstico comparativo, para cada Familia Tecnológica según su forma tipológica (cubierta o muro) se presenta un Diagrama Combinado comparativo de las familias componentes de cada categoría para las 7 variables de cálculo, con su correspondiente promedio general de referencia.



| BIO | MU | BIO CONSTRUCCIÓN |
|---|---|---|

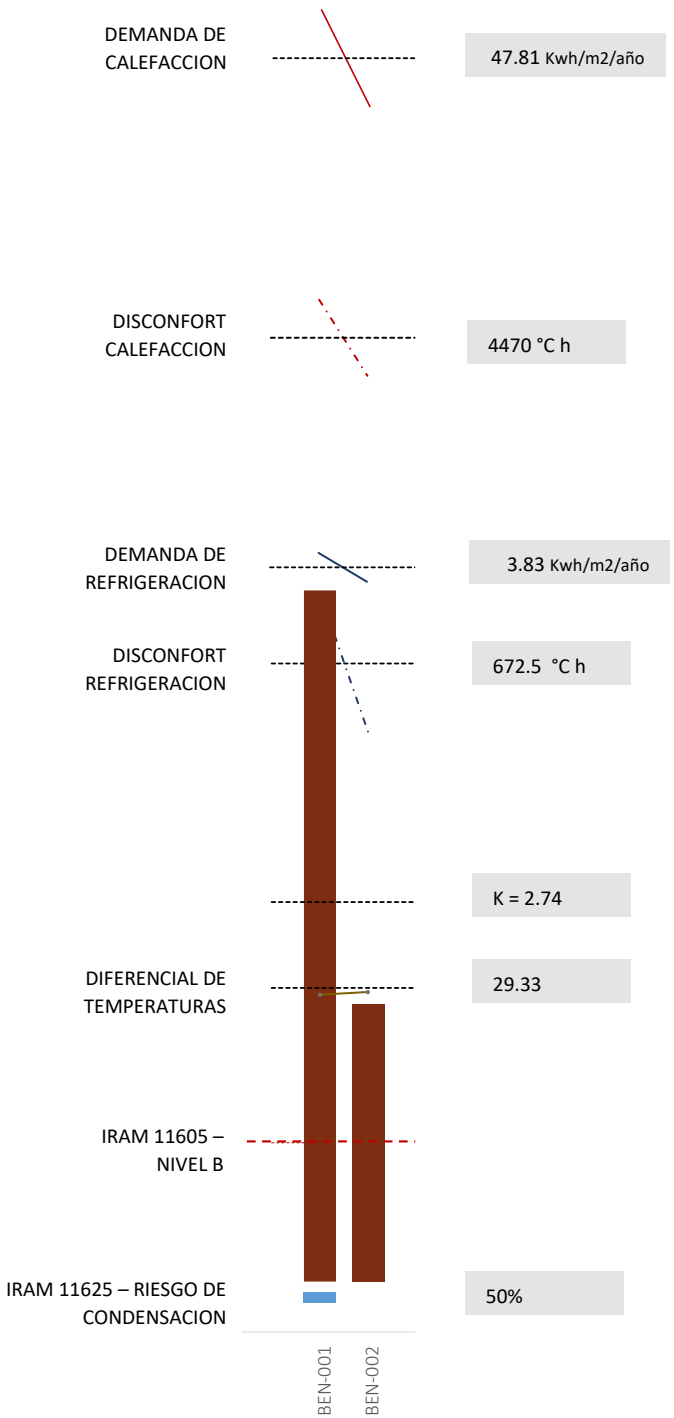
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 1.04 | 20% | 29.70 | 39.01 | 2.22 | 4477 | 358 |
| INCIDENCIA | 87% | 71% | 96% | 95% | 37% | 100% | 70% |

| BEN | MU | BENO |
|---|---|---|

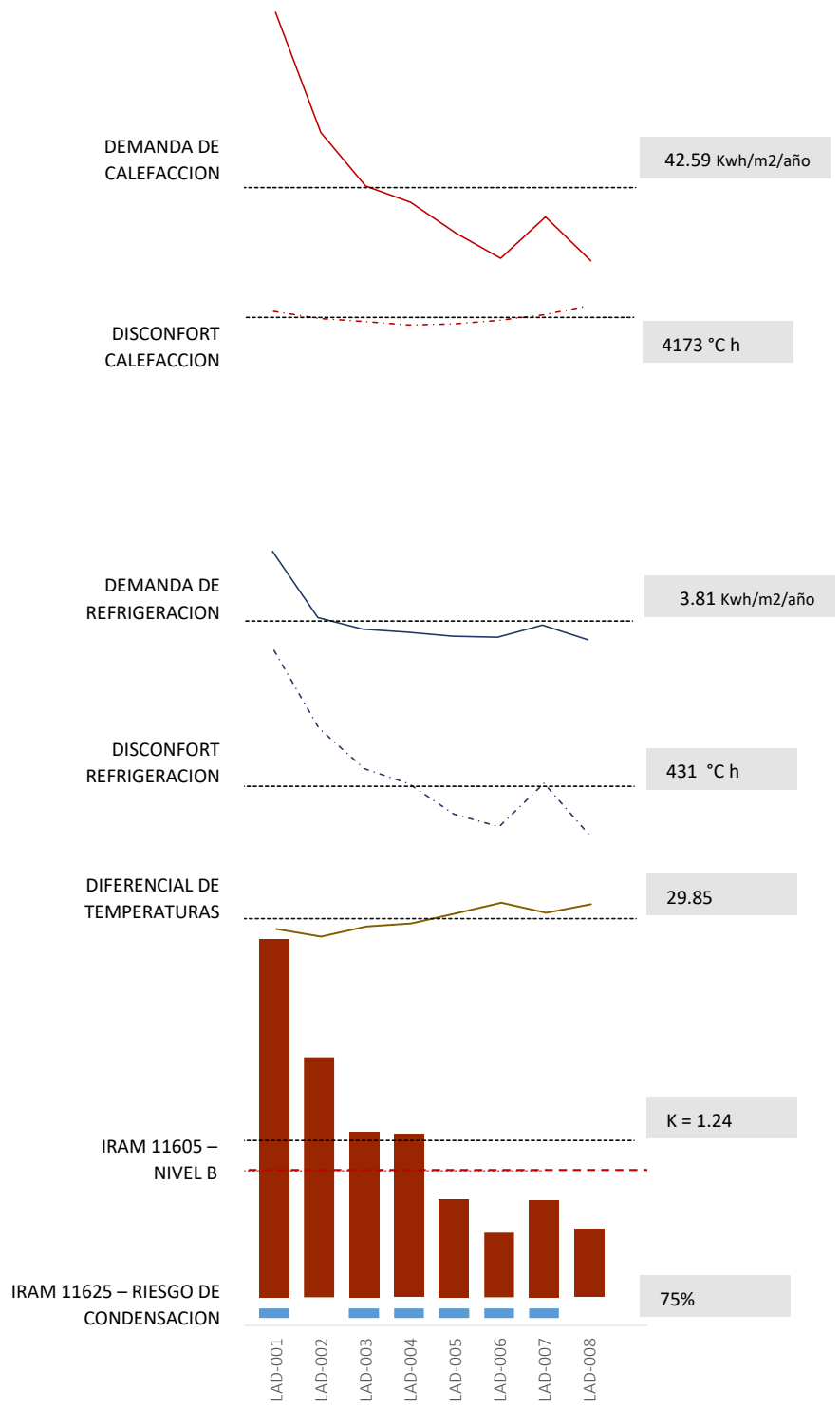
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 2.74 | 50% | 29.33 | 47.81 | 3.83 | 4470 | 672.5 |
| INCIDENCIA | 230% | 179% | 95% | 116% | 64% | 100% | 132% |

| LAD | MU | LADRILLO COMUN |
|---|---|---|

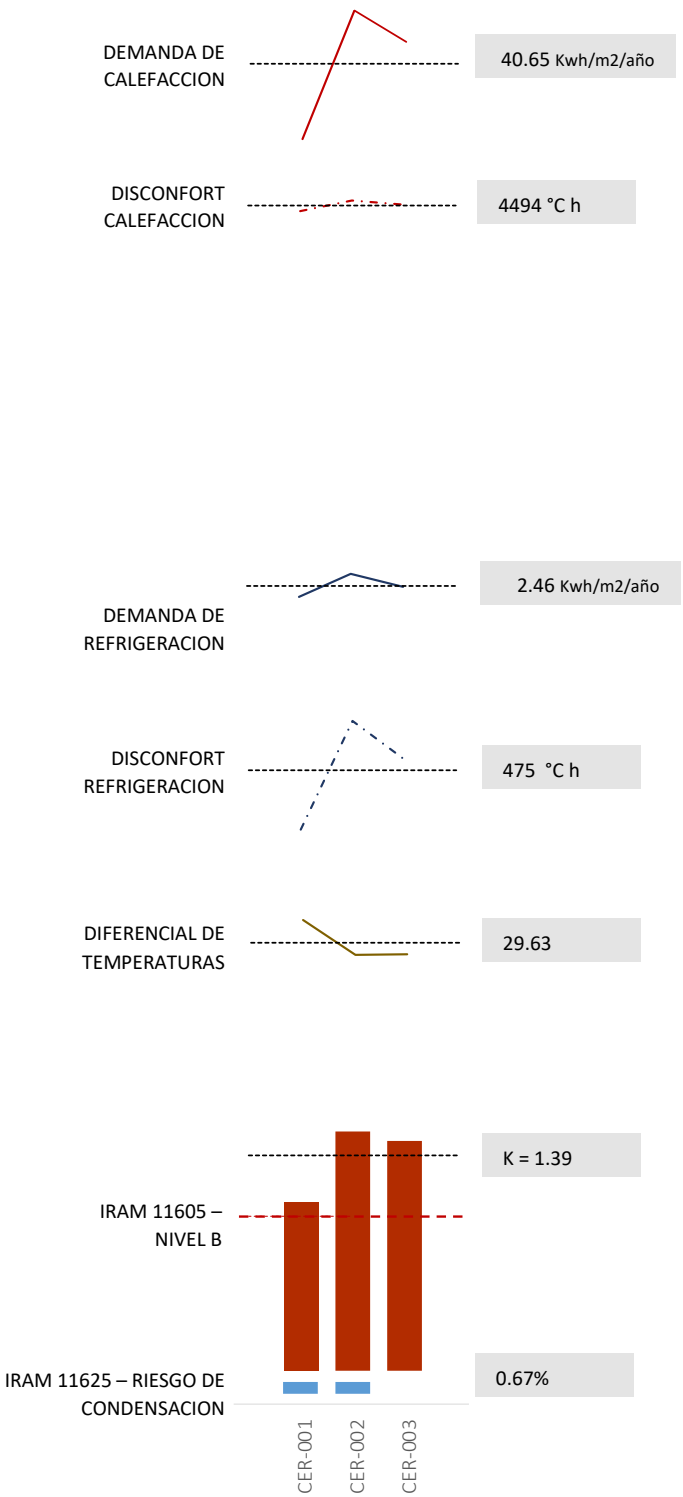
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 1.24 | 0.75 | 29.85 | 42.59 | 3.81 | 4494 | 516 |
| INCIDENCIA | 104.26% | 267.79% | 96.87% | 103.56% | 63.48% | 100.73% | 100.95% |

| CER | MU | LADRILLO CERAMICO |
|---|---|---|

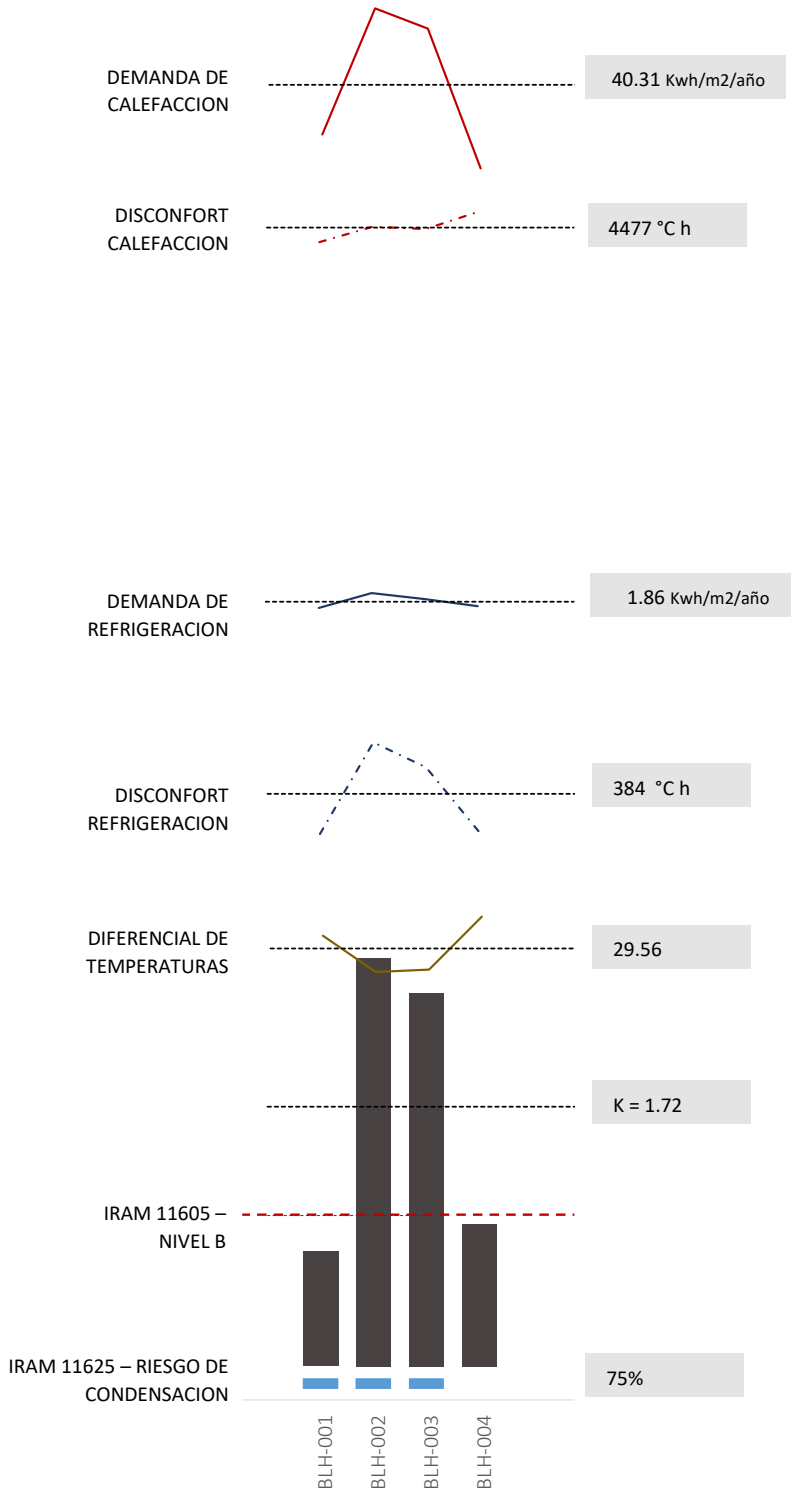
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 1.39 | 67% | 29.63 | 40.65 | 2.46 | 4494 | 475 |
| INCIDENCIA | 117% | 239% | 96% | 99% | 41% | 101% | 93% |

| BLH | MU | BLOQUE DE HORMIGON |
|---|---|---|

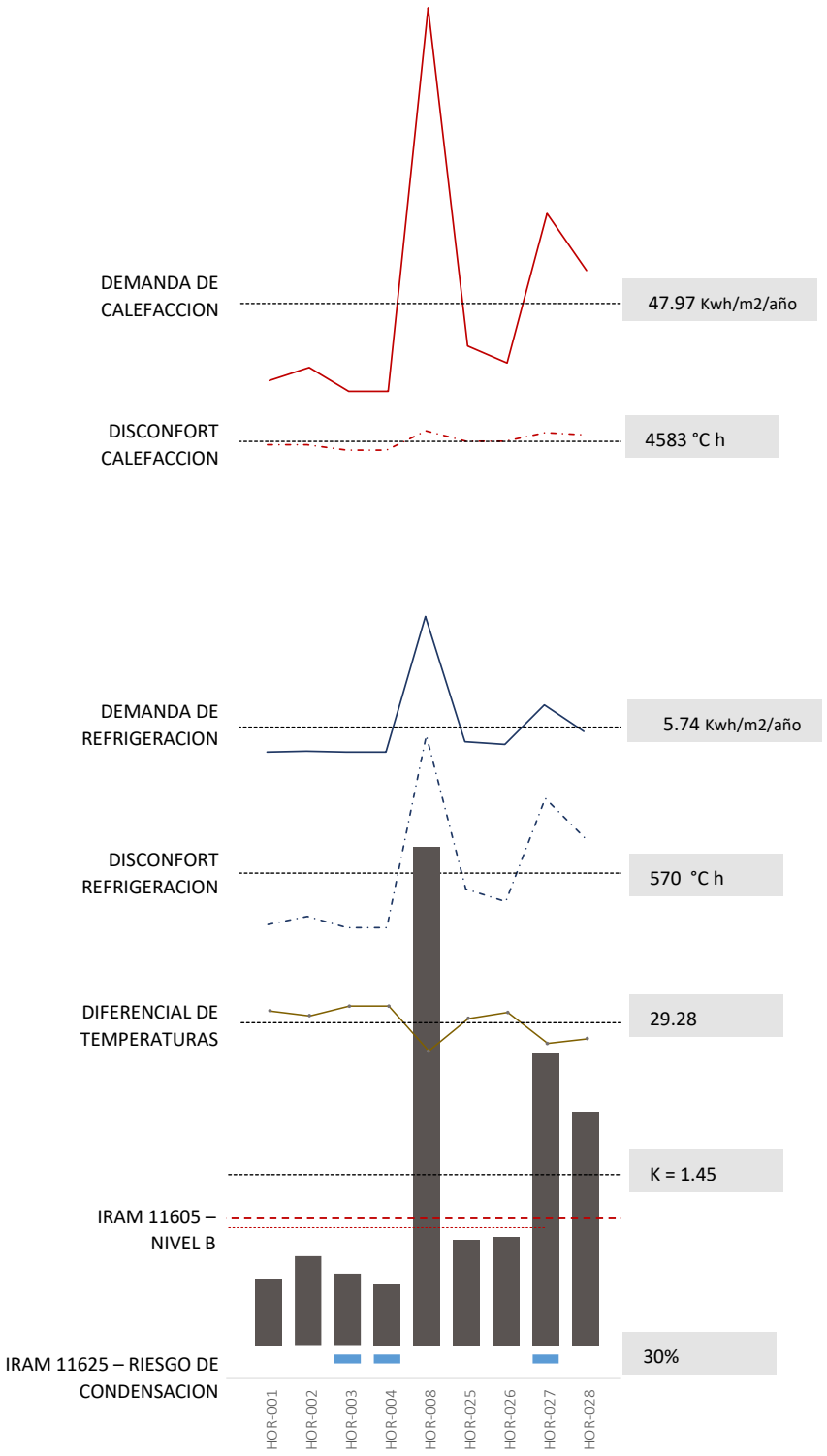
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 1.72 | 75% | 29.56 | 40.31 | 1.86 | 4477 | 384 |
| INCIDENCIA | 144% | 268% | 96% | 98% | 31% | 100% | 75% |

| HOR | MU | HORMIGON |
|---|---|---|

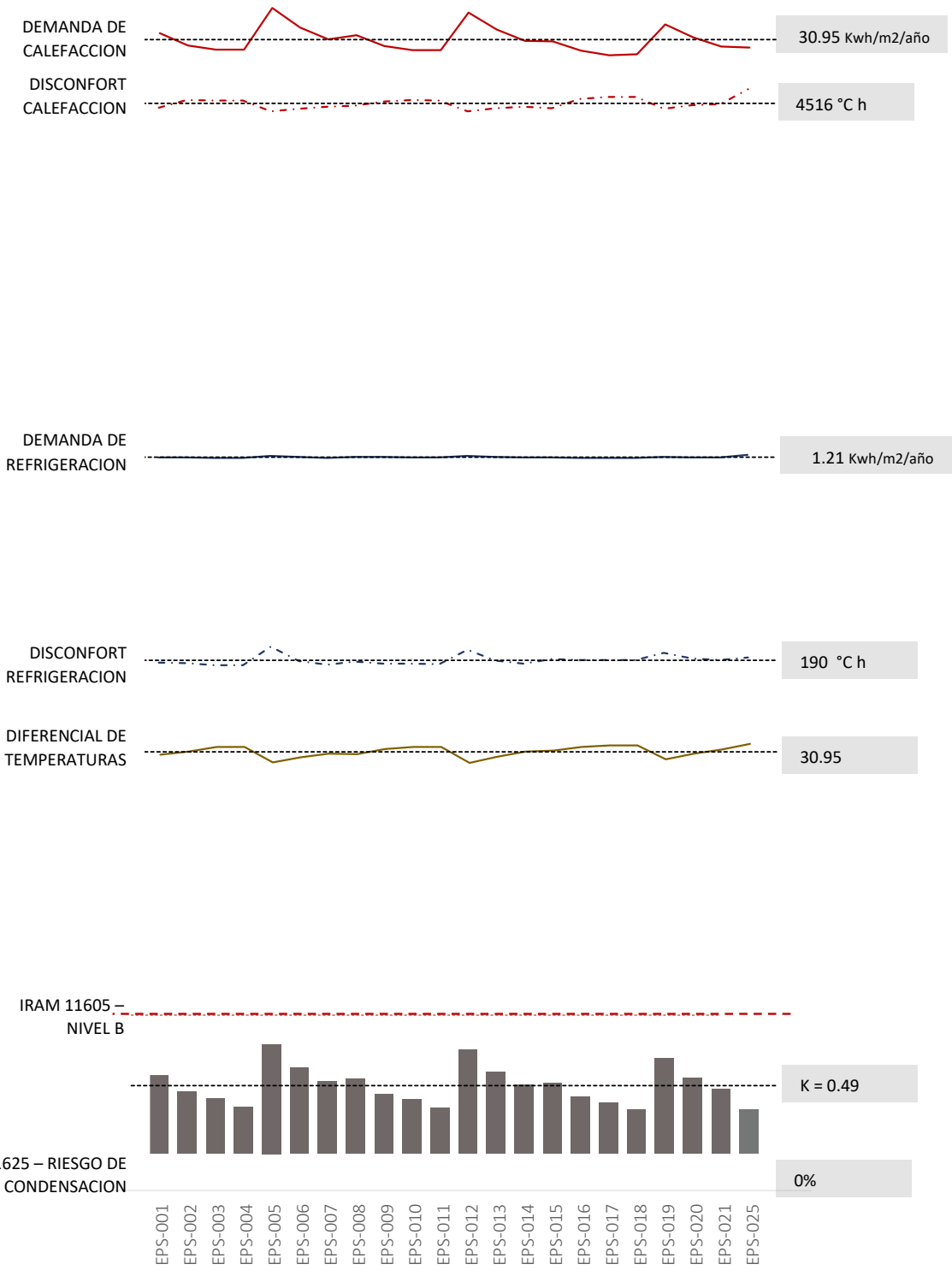
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 1.45 | 30% | 29.28 | 47.97 | 5.74 | 4583 | 570 |
| INCIDENCIA | 122% | 107% | 95% | 117% | 96% | 103% | 111% |

| EPS | MU | ALMA DE EPS |
|---|---|---|

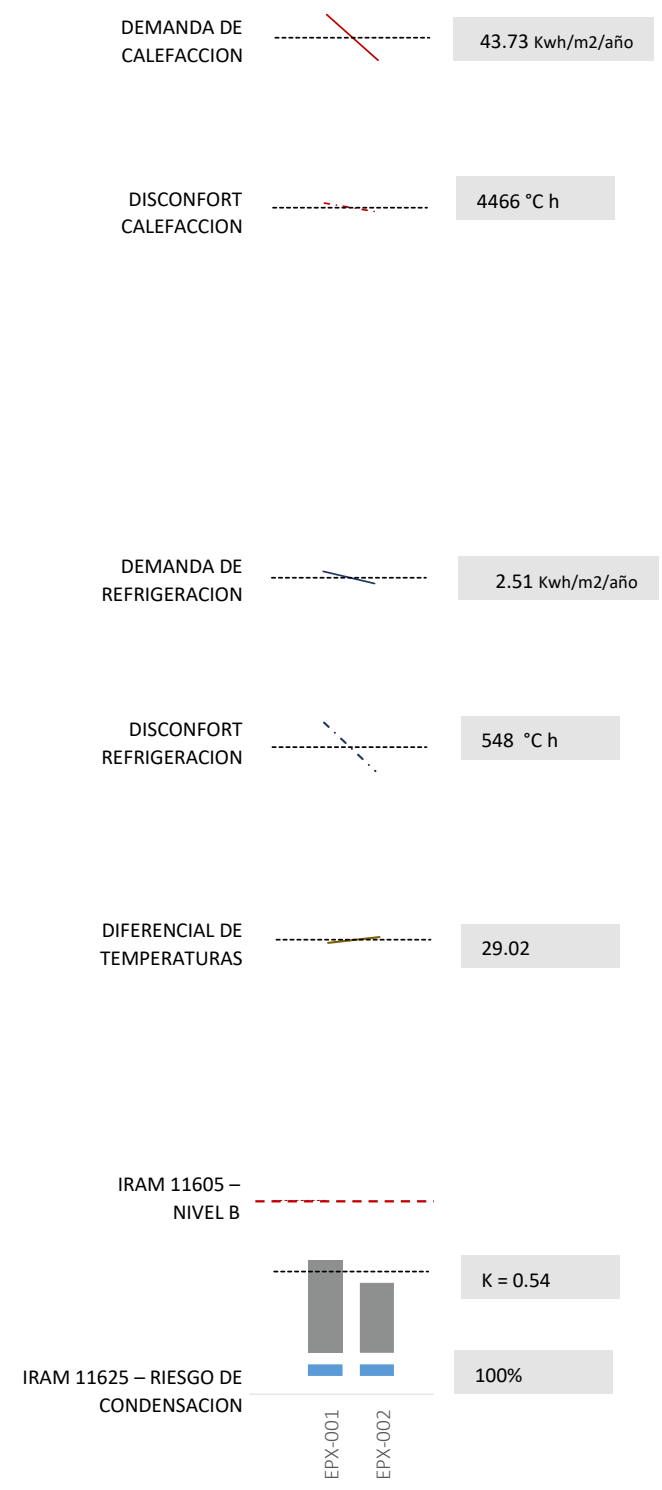
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 0.49 | 0% | 30.95 | 30.95 | 1.21 | 4516 | 190 |
| INCIDENCIA | 42% | 0% | 100% | 75% | 20% | 101% | 37% |

| EPX | MU | ENCOFRADO EPS |
|---|---|---|

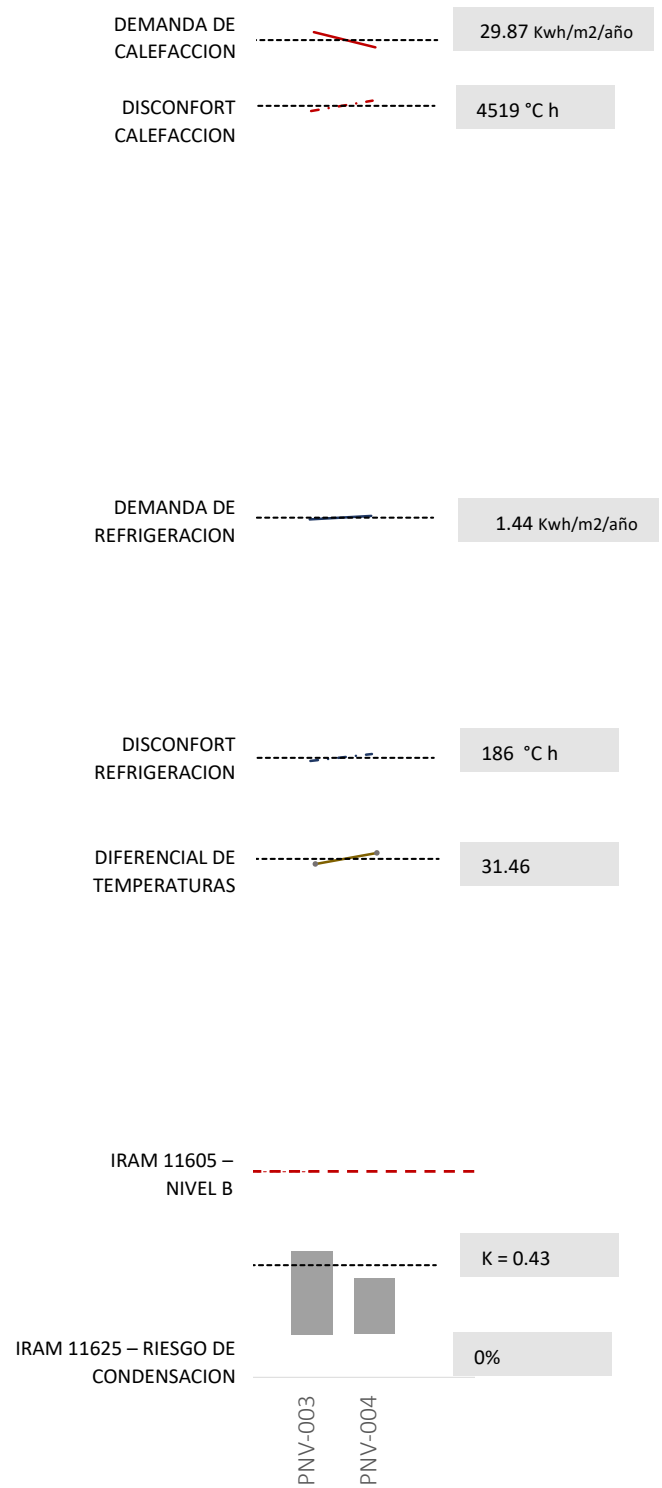
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 0.54 | 0% | 29.02 | 43.73 | 2.51 | 4466 | 548 |
| INCIDENCIA | 45% | 0% | 94% | 106% | 42% | 100% | 107% |

| PNV | MU | PRENOVA |
|---|---|---|

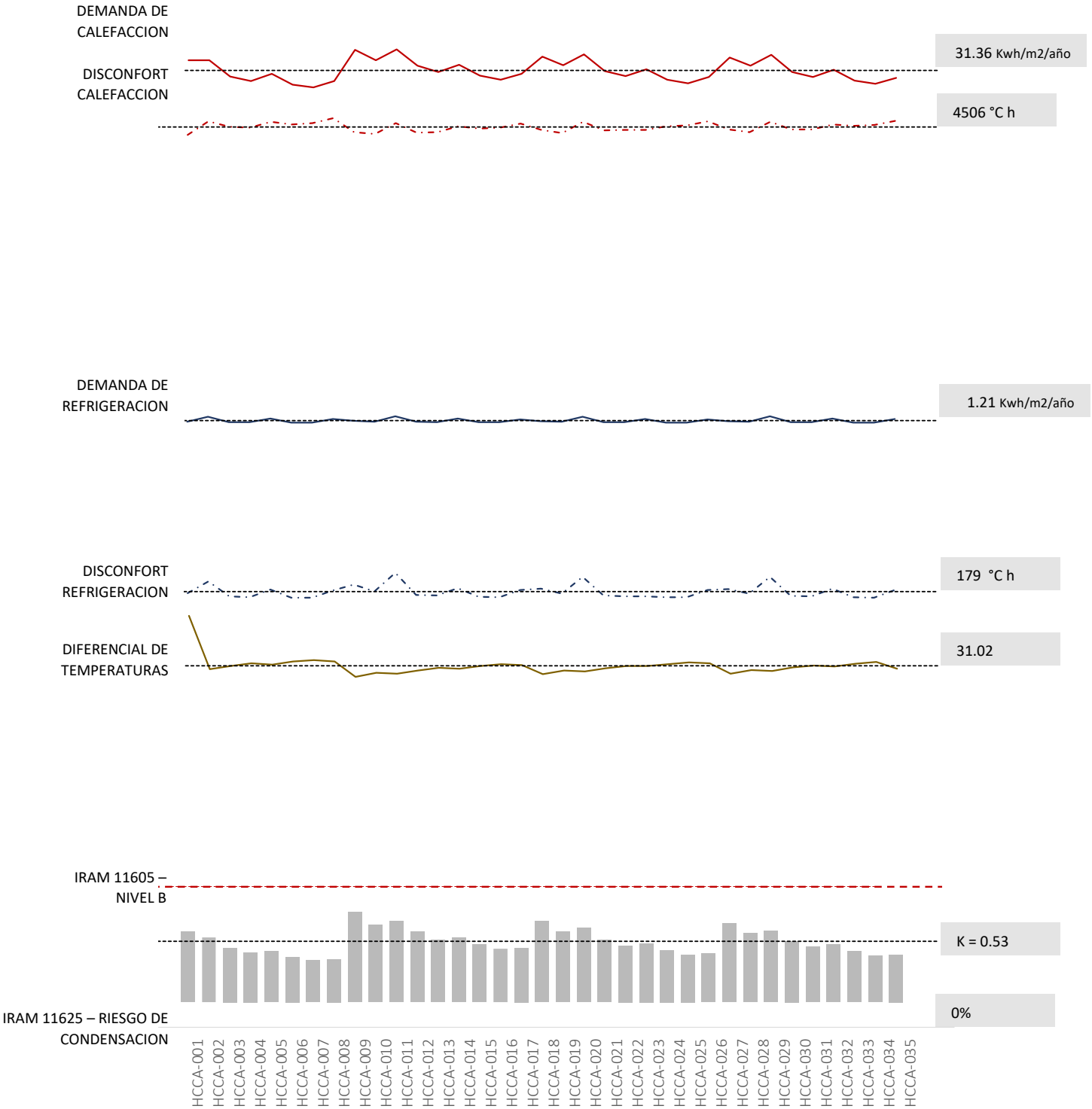
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 0.43 | 100% | 31.26 | 29.87 | 1.44 | 4519 | 186 |
| INCIDENCIA | 36% | 357% | 101% | 73% | 24% | 101% | 36% |

| HCCA | MU | HORMIGON CELULAR |
|---|---|---|

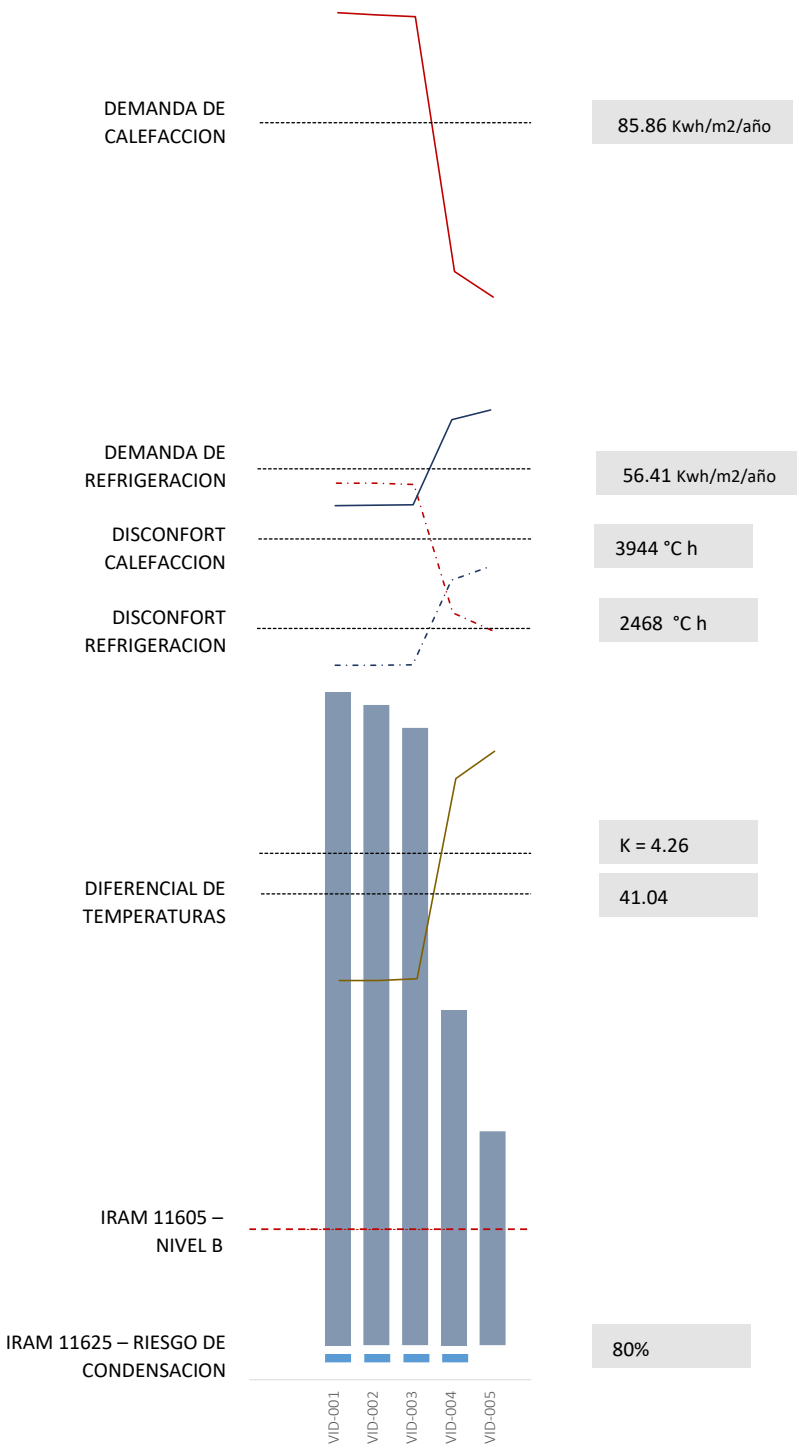
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 0.53 | 0% | 31.02 | 31.36 | 1.21 | 4506 | 179 |
| INCIDENCIA | 44% | 0% | 101% | 76% | 20% | 101% | 35% |

| VID | MU | VIDRIO |
|---|---|---|

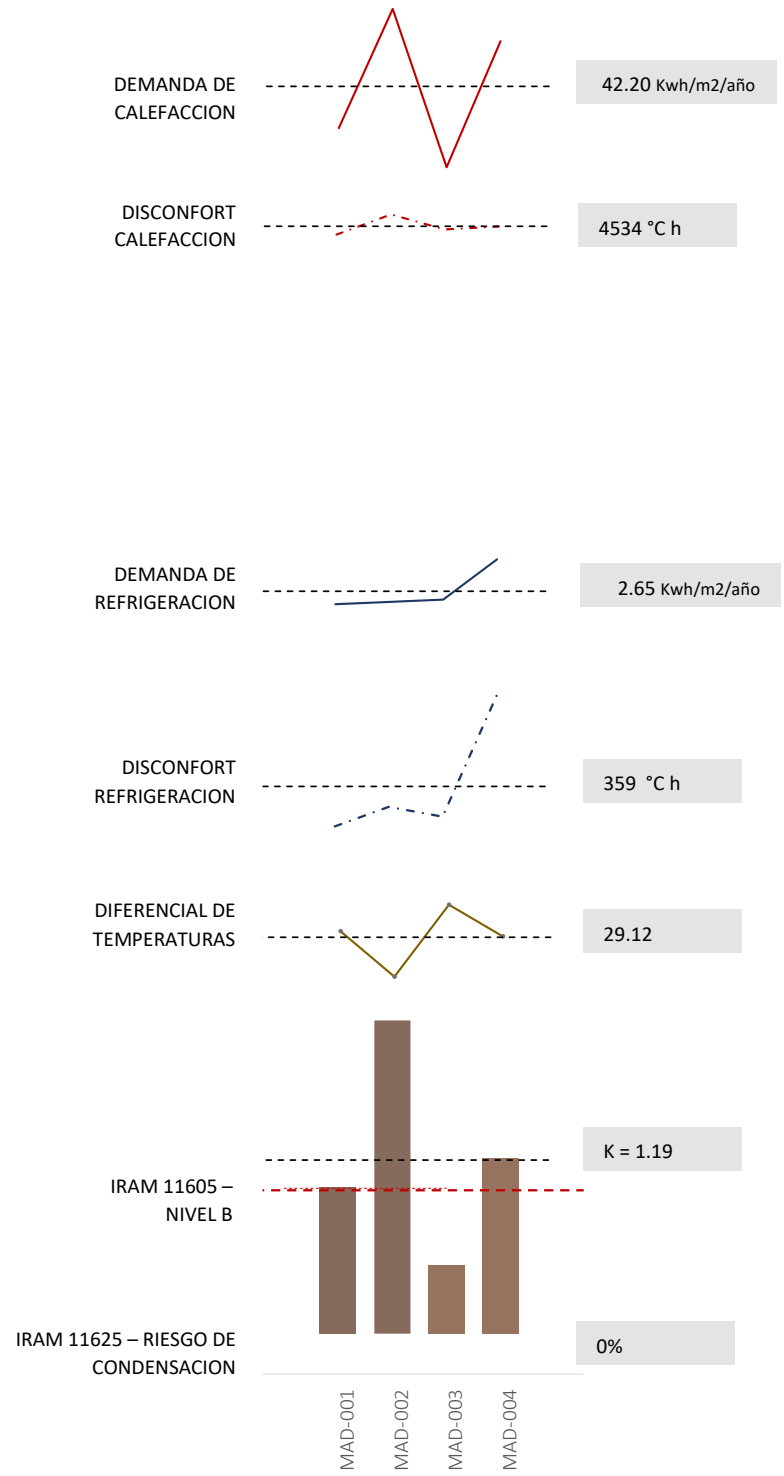
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 4.26 | 80% | 41.04 | 85.86 | 56.41 | 3944 | 2468 |
| INCIDENCIA | 358% | 286% | 133% | 209% | 940% | 88% | 483% |

| MAD | MU | MADERA |
|---|---|---|

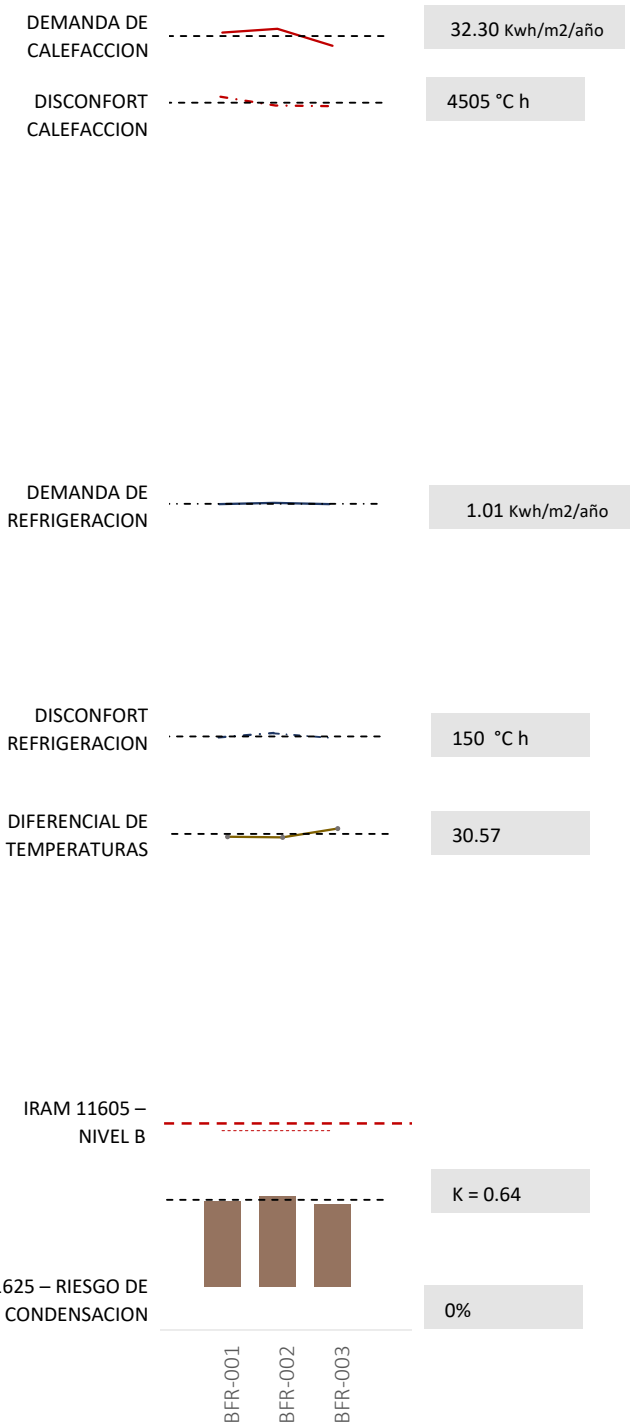
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 1.19 | 0.00 | 29.12 | 42.20 | 2.65 | 4534 | 359 |
| INCIDENCIA | 100% | 0% | 95% | 103% | 44% | 102% | 70% |

| BFR | MU | BALOON FRAME |
|---|---|---|

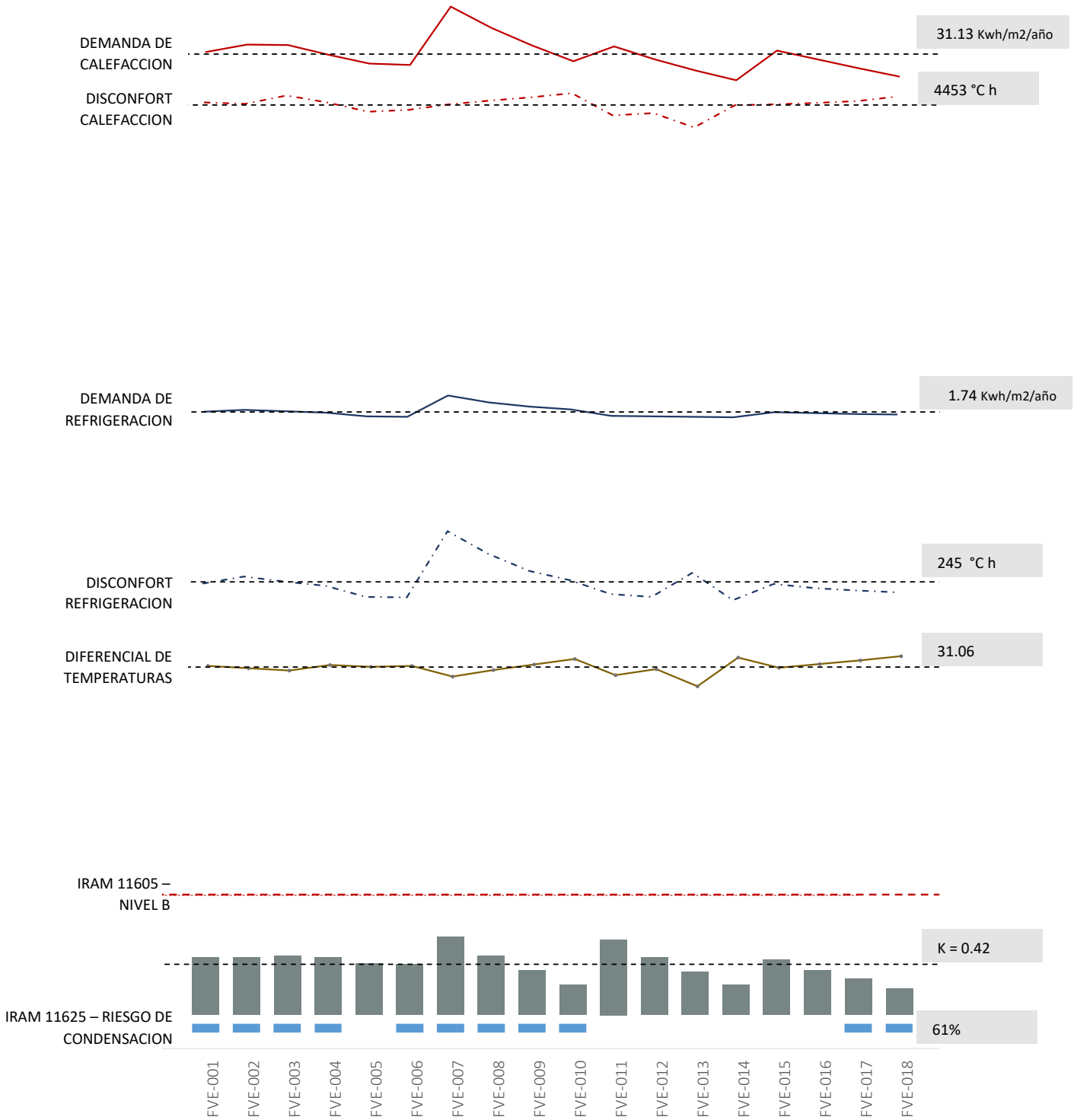
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 0.64 | 0.00 | 30.57 | 32.30 | 1.01 | 4505 | 150 |
| INCIDENCIA | 54% | 0% | 99% | 79% | 17% | 101% | 29% |

| FVE | MU | FACHADA VENTILADA |
|---|---|---|

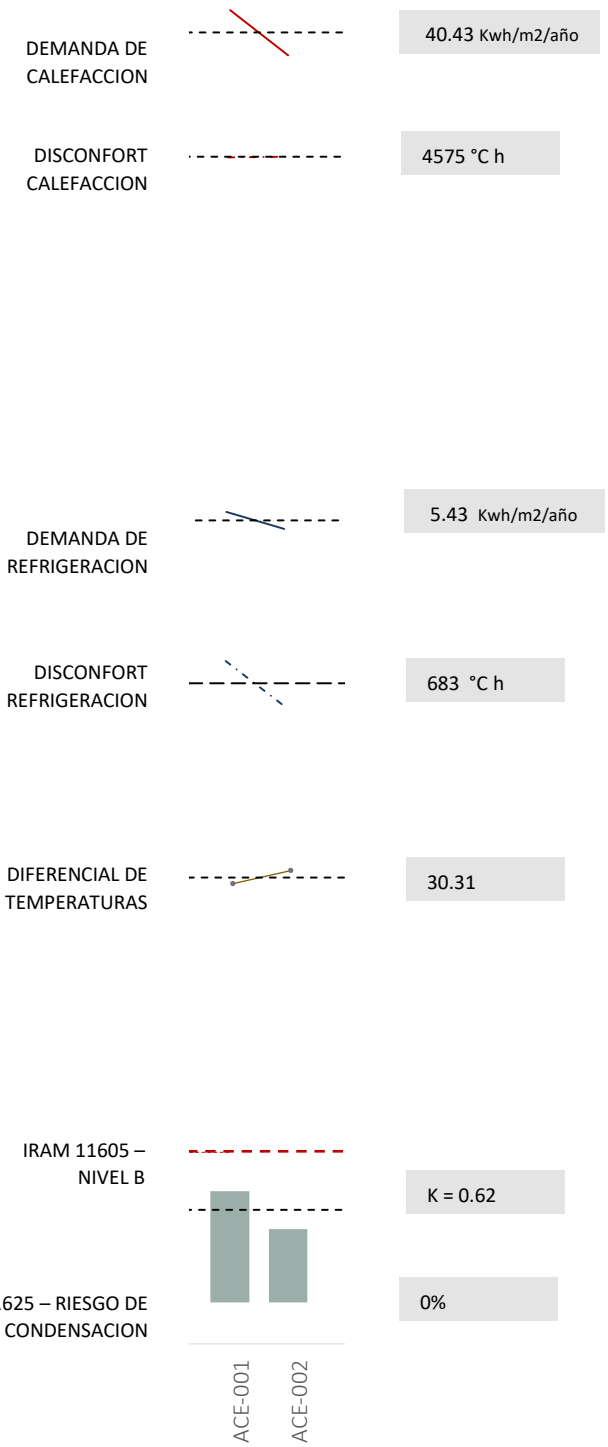
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 0.42 | 61% | 31.06 | 31.13 | 1.74 | 4553 | 245 |
| INCIDENCIA | 35% | 218% | 101% | 76% | 29% | 102% | 48% |

| ACE | MU | ACERO |
|---|---|---|

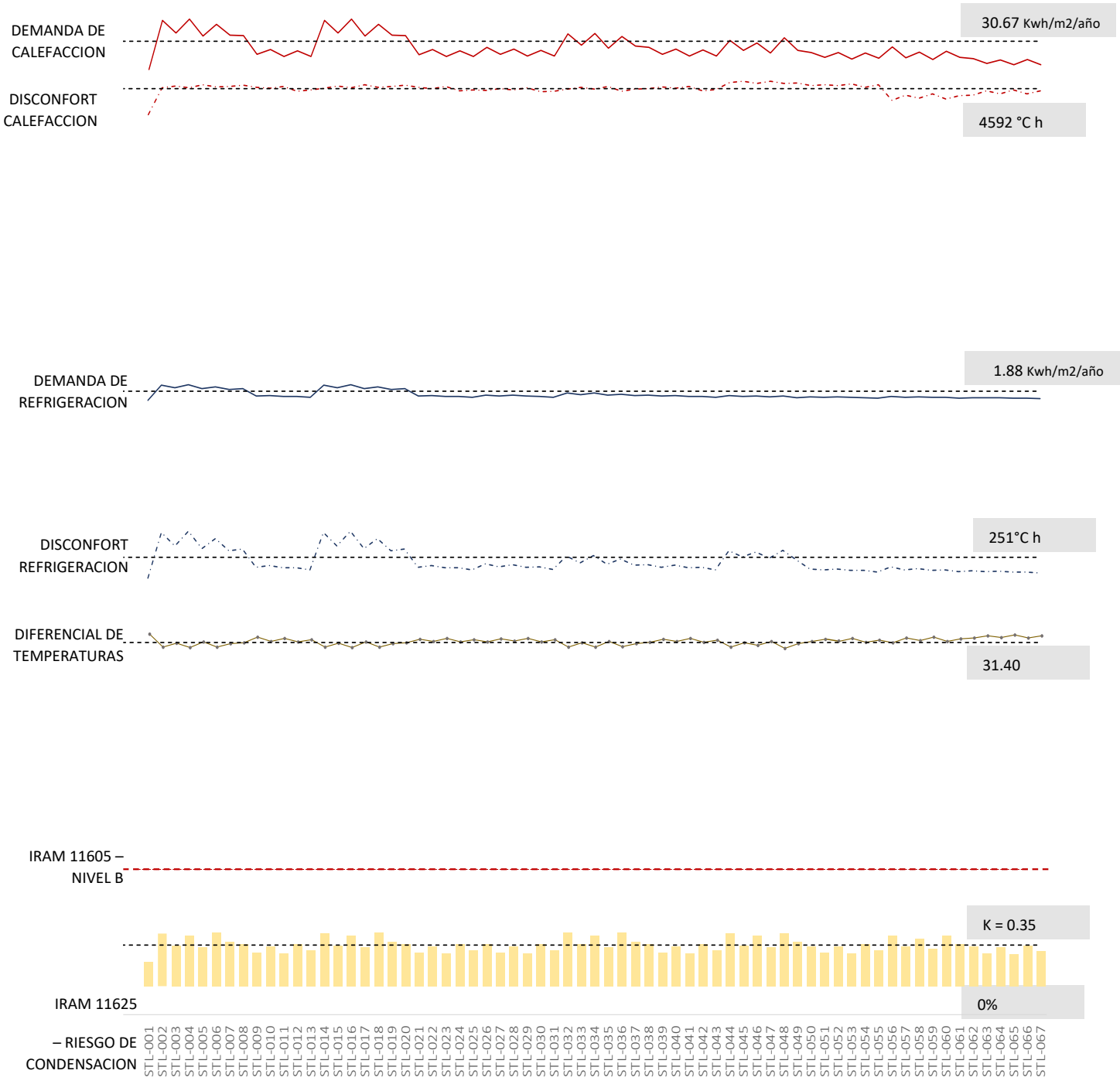
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 0.62 | 0.00 | 30.31 | 40.43 | 5.43 | 4575 | 683 |
| INCIDENCIA | 52% | 0% | 98% | 98% | 90% | 103% | 134% |

| STL | MU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

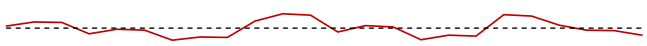



| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 1.19 | 28% | 30.81 | 41.13 | 6.00 | 4462 | 511 |
| FAMILIA | 0.35 | 0% | 31.40 | 30.67 | 1.88 | 4592 | 251 |
| INCIDENCIA | 29.69% | 0.00% | 101.90% | 74.58% | 31.32% | 102.92% | 49.10% |

| CAJ | CU | CUBIERTA AJARDINADA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

DEMANDA DE CALEFACCION



41.11 Kwh/m2/año

DISCONFORT CALEFACCION



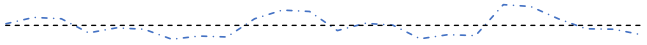
4537 °C h

DEMANDA DE REFRIGERACION



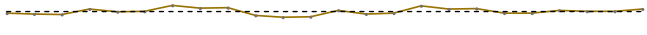
1.95 Kwh/m2/año

DISCONFORT REFRIGERACION



474 °C h

DIFERENCIAL DE TEMPERATURAS



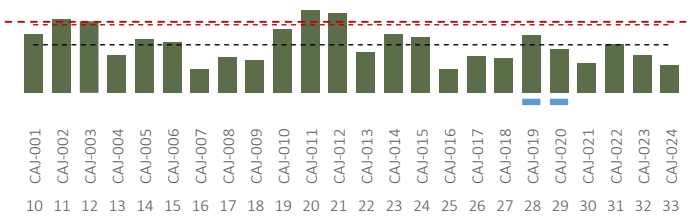
29.67

IRAM 11605 – NIVEL B

K = 0.59

IRAM 11625 – RIESGO DE CONDENSACION

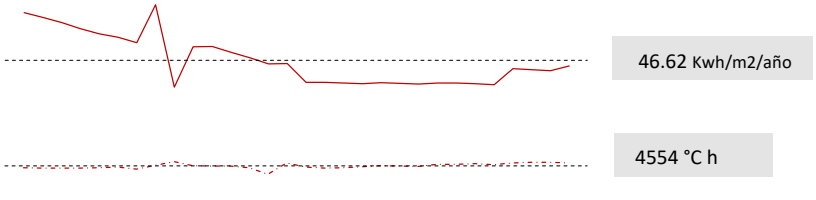
8%

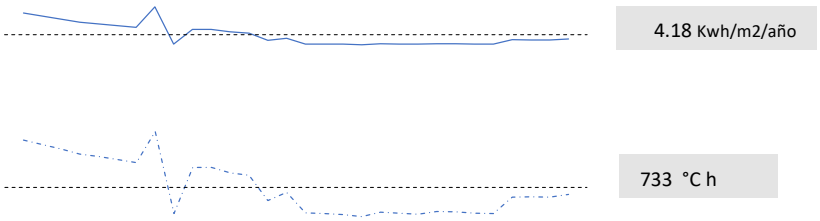


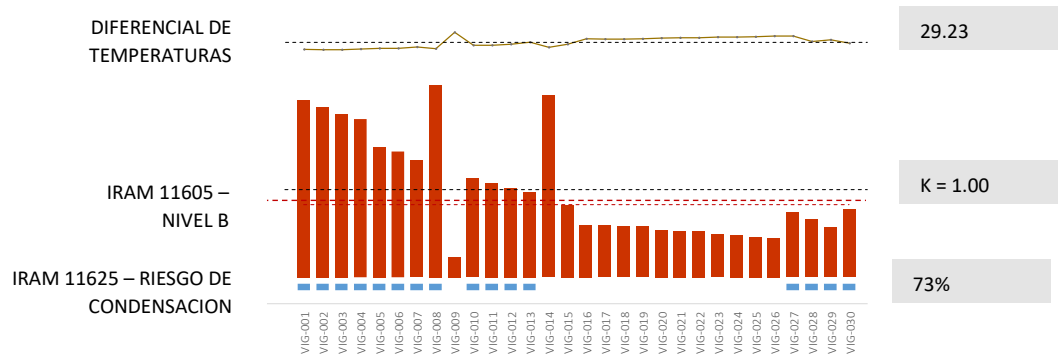

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0.81 | 48% | 29.70 | 44.48 | 4.11 | 4561 | 632 |
| FAMILIA | 0.59 | 8% | 29.67 | 41.11 | 1.95 | 4537 | 474 |
| INCIDENCIA | 73% | 17% | 100% | 92% | 47% | 99% | 75% |

| VIG | CU | LOSA DE VIGUETAS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS



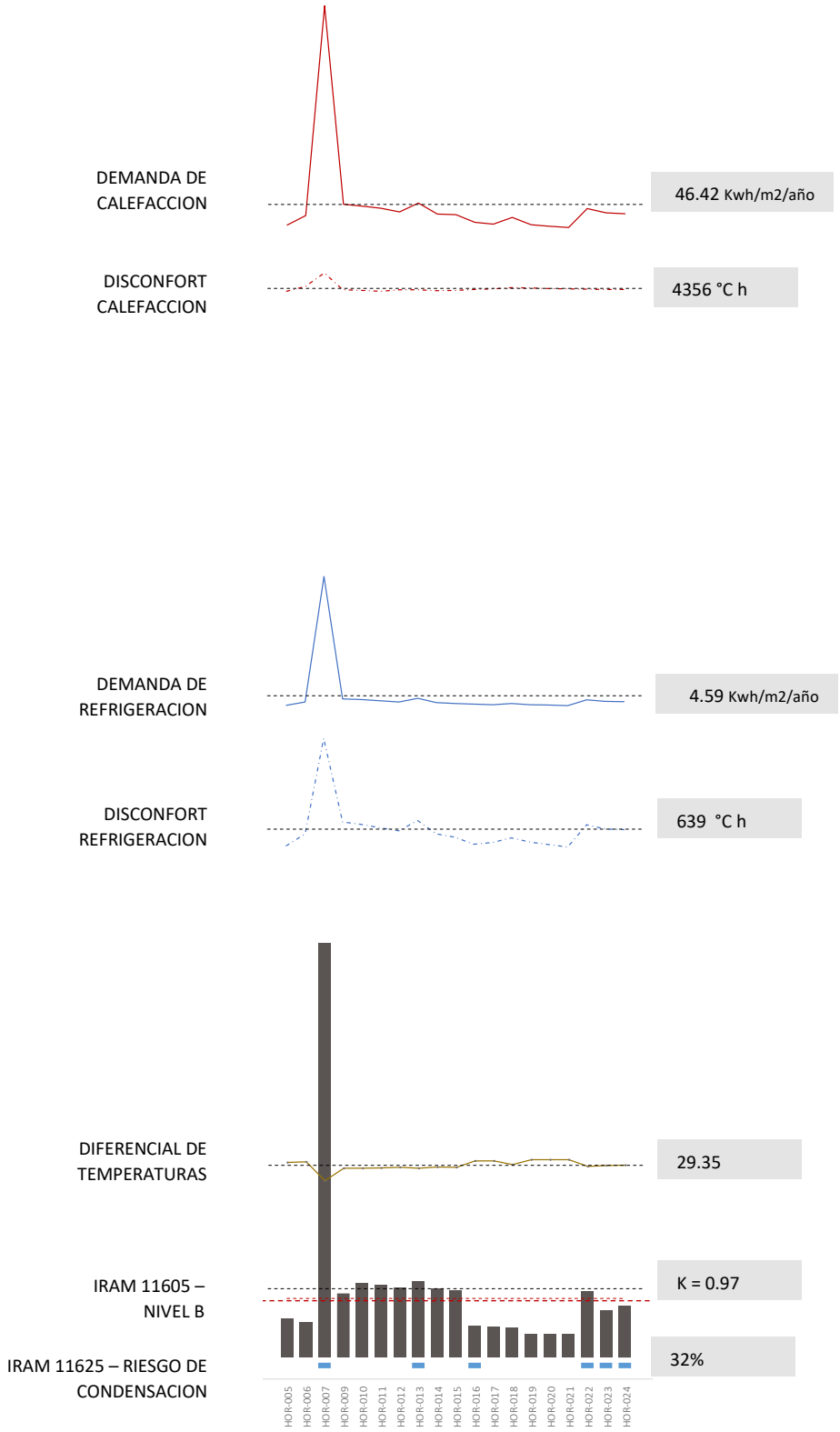




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0.81 | 48% | 29.70 | 44.48 | 4.11 | 4561 | 632 |
| FAMILIA | 1 | 73% | 29.23 | 46.62 | 4.18 | 4554 | 733 |
| INCIDENCIA | 123% | 152% | 98% | 105% | 102% | 100% | 116% |

| HOR | CU | HORMIGON |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0.81 | 48% | 29.70 | 44.48 | 4.11 | 4561 | 632 |
| FAMILIA | 0.97 | 32% | 29.35 | 46.42 | 4.59 | 4356 | 639 |
| INCIDENCIA | 120% | 67% | 99% | 104% | 112% | 96% | 101% |

| EPS | CU | ALMA DE EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

DEMANDA DE CALEFACCION — 44.54 Kwh/m2/año

DISCONFORT CALEFACCION — 4598 °C h

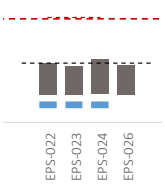
DEMANDA DE REFRIGERACION — 4.52 Kwh/m2/año

DISCONFORT REFRIGERACION — 629 °C h

DIFERENCIAL DE TEMPERATURAS — 30.03

IRAM 11605 – NIVEL B — K = 0.34

IRAM 11625 – RIESGO DE CONDENSACION — 75%




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0.81 | 48% | 29.70 | 44.48 | 4.11 | 4561 | 632 |
| FAMILIA | 0.34 | 75% | 30.03 | 44.54 | 4.52 | 4598 | 629 |
| INCIDENCIA | 42% | 156% | 101% | 100% | 110% | 101% | 100% |

| EPX | CU | ENCOFRADO EPS |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

DEMANDA DE CALEFACCION ---------- 40.17 Kwh/m2/año

DISCONFORT CALEFACCION ---------- 4604 °C h

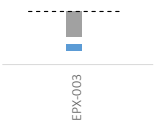
DEMANDA DE REFRIGERACION ---------- 1.82 Kwh/m2/año

DISCONFORT REFRIGERACION ---------- 458 °C h

DIFERENCIAL DE TEMPERATURAS _____ 30.24

IRAM 11605 – NIVEL B ---------- K = 0.28

IRAM 11625 – RIESGO DE CONDENSACION ---------- 100%




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0.81 | 48% | 29.70 | 44.48 | 4.11 | 4561 | 632 |
| FAMILIA | 0.28 | 100% | 30.24 | 40.17 | 1.82 | 4604 | 458 |
| INCIDENCIA | 35% | 208% | 102% | 90% | 44% | 101% | 72% |

| PNV | CU | PRENOVA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

DEMANDA DE CALEFACCION — 40.08 Kwh/m2/año

DISCONFORT CALEFACCION — 4577 °C h

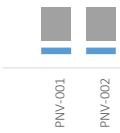
DEMANDA DE REFRIGERACION — 1.83 Kwh/m2/año

DISCONFORT REFRIGERACION — 464 °C h

DIFERENCIAL DE TEMPERATURAS — 30.12

IRAM 11605 – NIVEL B — K = 0.38

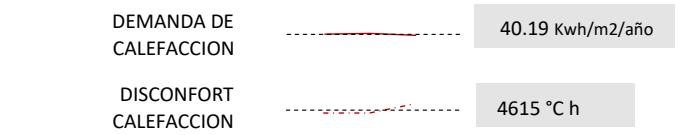
IRAM 11625 – RIESGO DE CONDENSACION — 100%

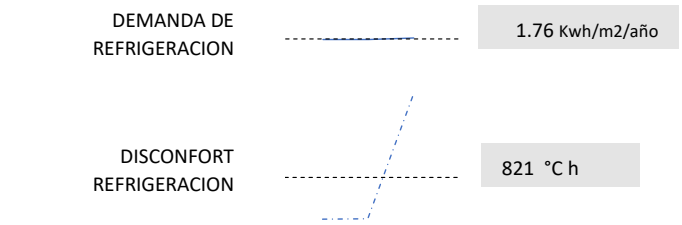


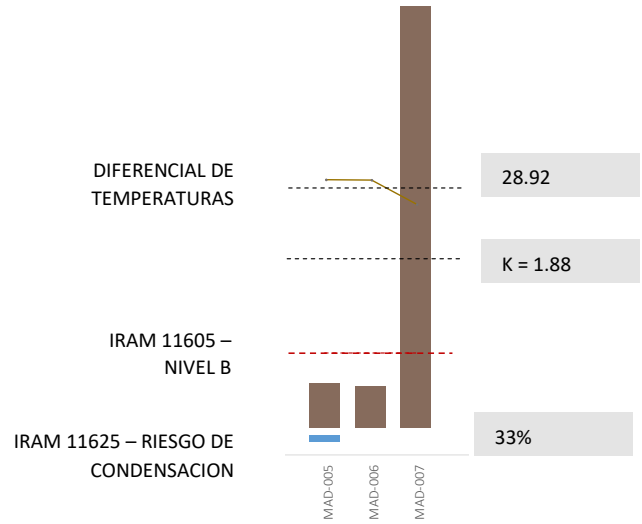

| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0.81 | 48% | 29.70 | 44.48 | 4.11 | 4561 | 632 |
| FAMILIA | 0.38 | 100% | 30.12 | 40.08 | 1.83 | 4577 | 464 |
| INCIDENCIA | 47% | 208% | 101% | 90% | 45% | 100% | 73% |

| MAD | CU | MADERA |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS



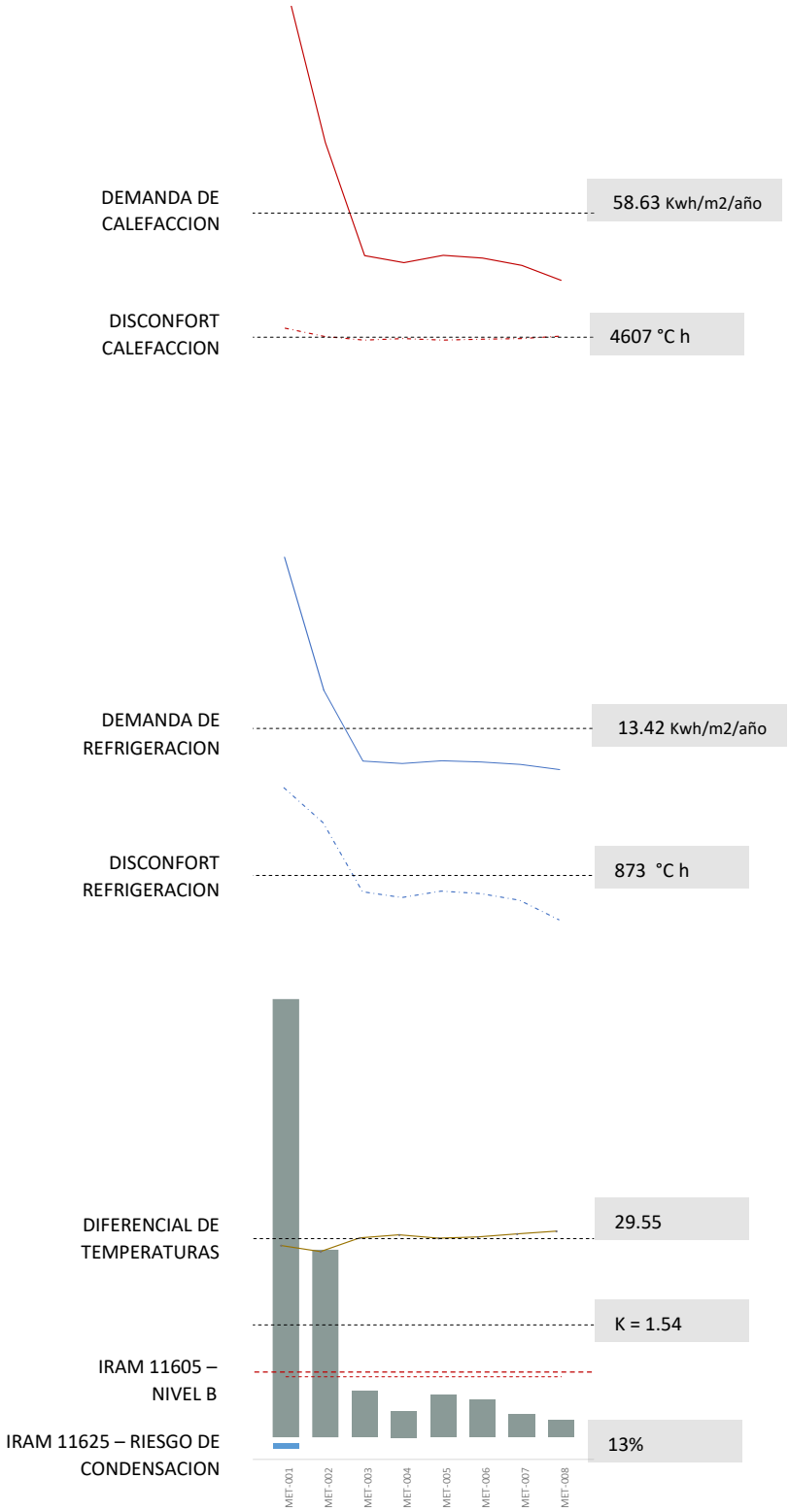




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0.81 | 48% | 29.70 | 44.48 | 4.11 | 4561 | 632 |
| FAMILIA | 1.88 | 33% | 28.92 | 40.19 | 1.76 | 4615 | 821 |
| INCIDENCIA | 232% | 69% | 97% | 90% | 43% | 101% | 130% |

| MET | CU | METAL |
|---|---|---|

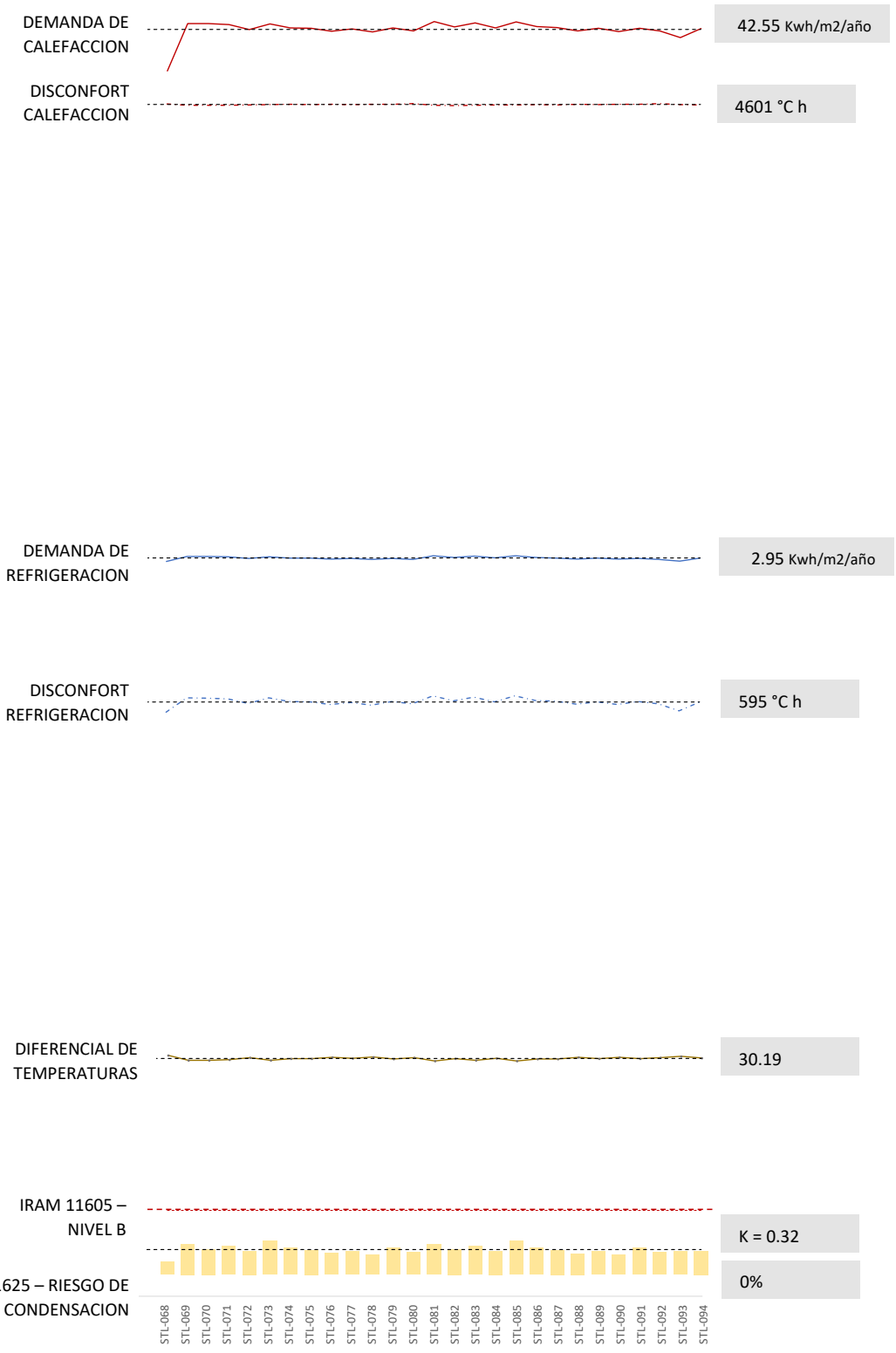
## DIAGNOSTICO DE RESULTADOS COMBINADOS




| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0.81 | 48% | 29.70 | 44.48 | 4.11 | 4561 | 632 |
| FAMILIA | 1.54 | 13% | 29.55 | 58.63 | 13.42 | 4607 | 873 |
| INCIDENCIA | 190% | 27% | 99% | 132% | 327% | 101% | 138% |

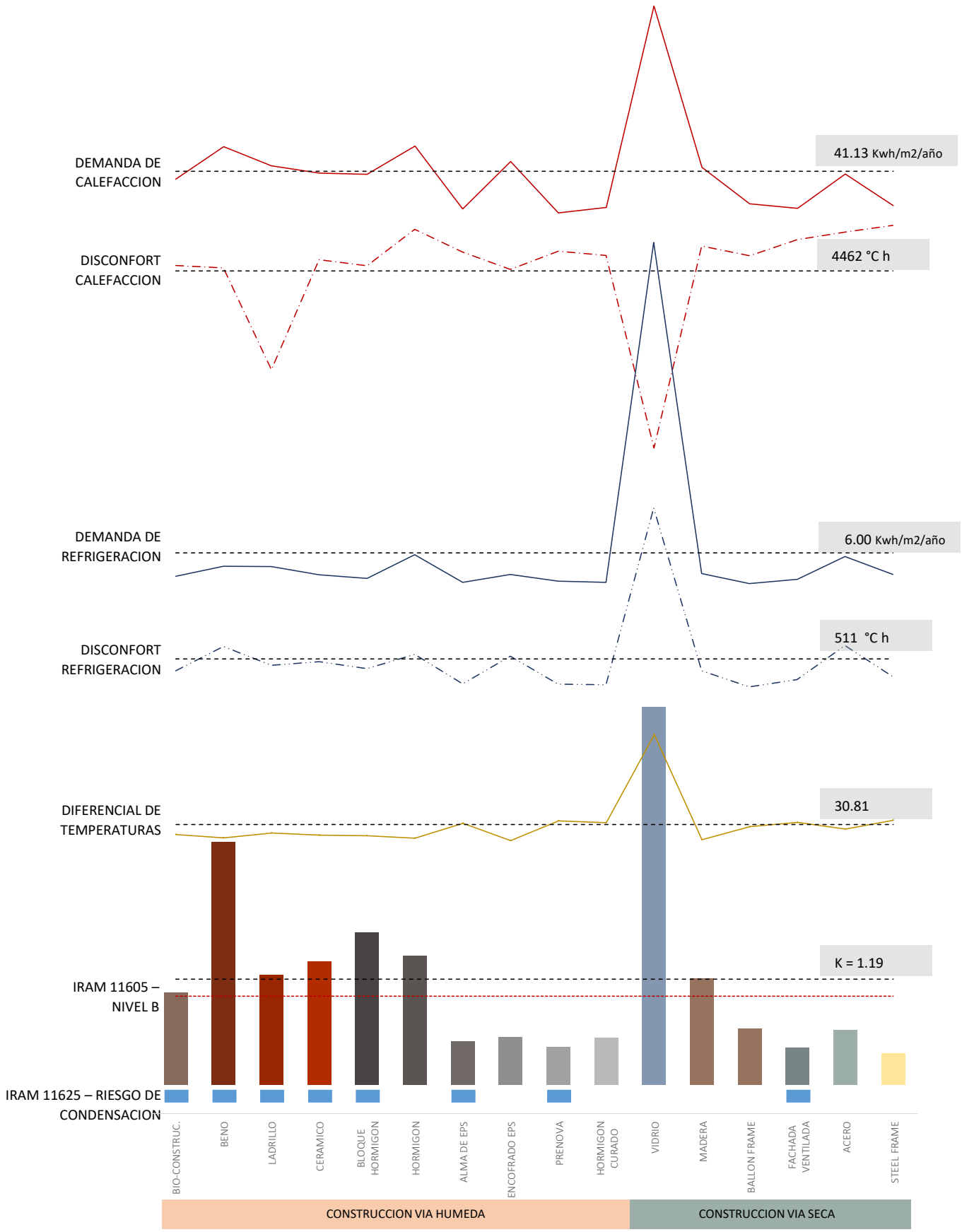
| STL | CU | STEEL FRAME |
|---|---|---|

## DIAGNOSTICO DE RESULTADOS COMBINADOS

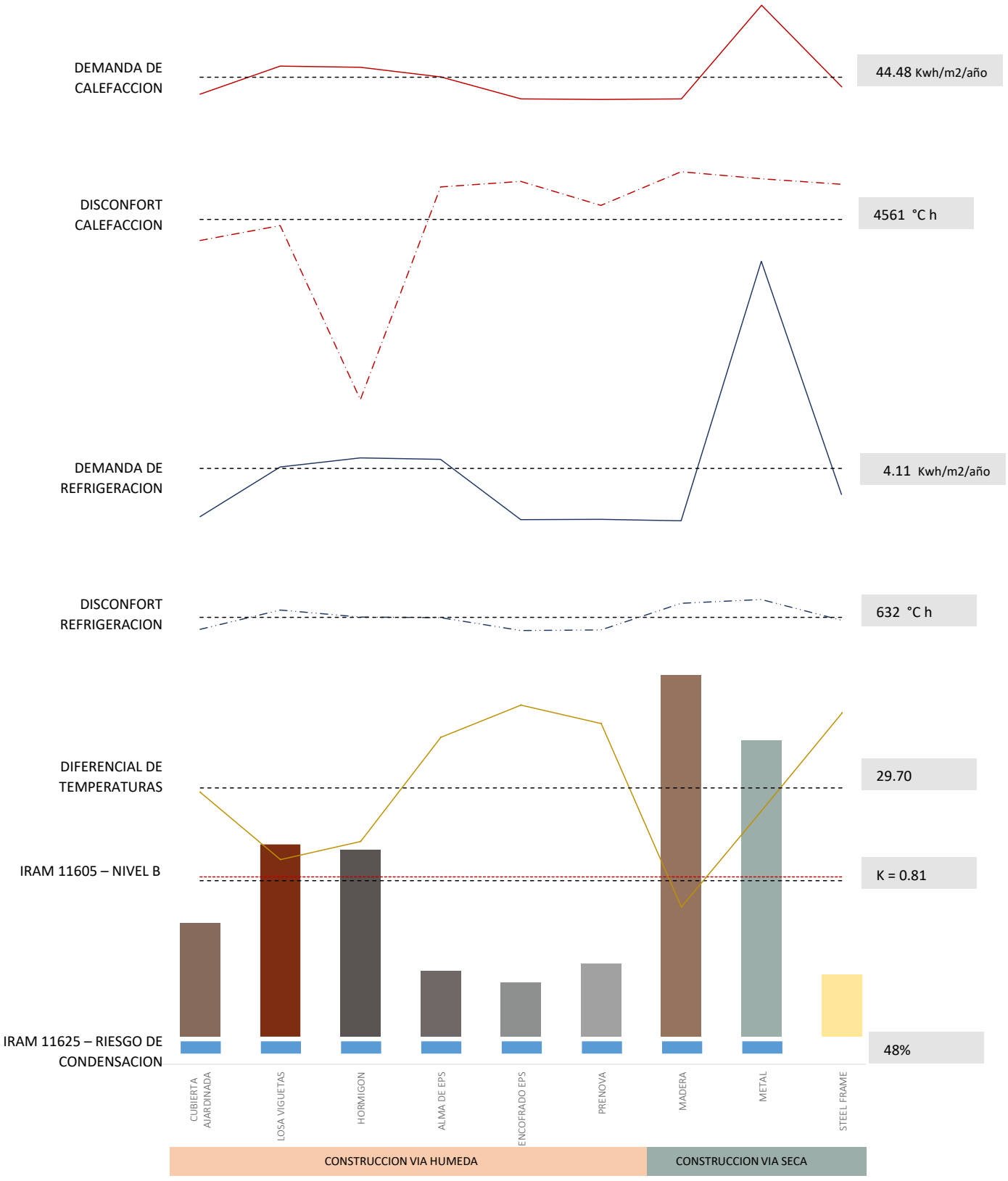



| | VALOR K | % CONDENS. | DIF. TEMP | DEM. CALEF. | DEM. REFRIG. | Hs. DISC. CAL. | Hs. DISC. REF. |
|---|---|---|---|---|---|---|---|
| TOTAL | 0.81 | 48% | 29.70 | 44.48 | 4.11 | 4561 | 632 |
| FAMILIA | 0.32 | 0% | 30.19 | 42.55 | 2.95 | 4601 | 595 |
| INCIDENCIA | 40% | 0% | 102% | 96% | 72% | 101% | 94% |

# DIAGNOSTICO DE RESULTADOS COMBINADOS POR FAMILIA -MUROS

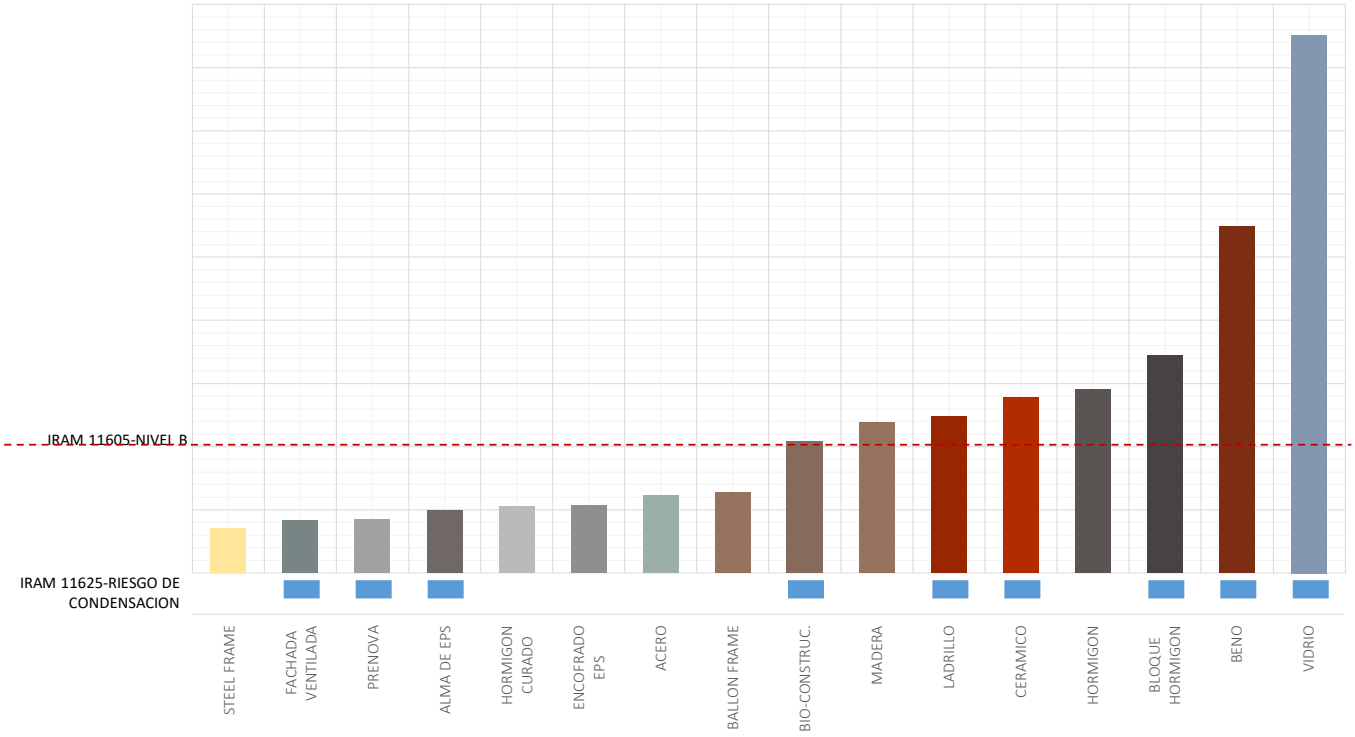


# DIAGNOSTICO DE RESULTADOS COMBINADOS POR FAMILIA -CUBIERTAS



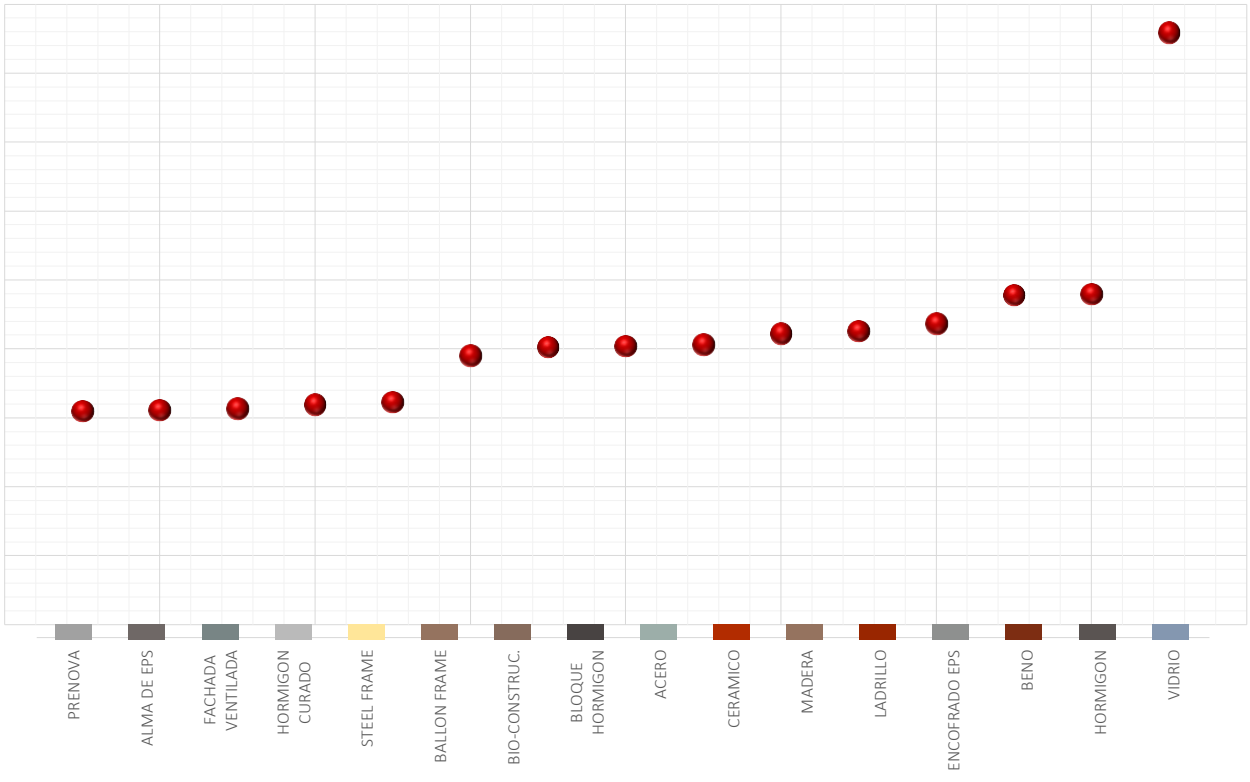
## RANKING FAMILIAS SEGÚN SU VALOR DE TRANSMITANCIA TERMICA PROMEDIO

| POSICION | FAMILIA | Valor K [ W/m2K] | RIESGO DE CONDENSACION |
|---|---|---|---|
| 1° | STEEL FRAME | 0.35 | 0% |
| 2° | FACHADA VENTILADA | 0.42 | 61% |
| 3° | PRENOVA | 0.43 | 100% |
| 4° | ALMA DE EPS | 0.49 | 0% |
| 5° | HCCA | 0.53 | 0% |
| 6° | ENCOFRADO EPS | 0.54 | 0% |
| 7° | ACERO | 0.62 | 0% |
| 8° | BALLON FRAME | 0.64 | 0% |
| 9° | BIO-CONSTRUC. | 1.04 | 20% |
| 10° | MADERA | 1.19 | 0% |
| 11° | LADRILLO | 1.24 | 75% |
| 12° | CERAMICO | 1.39 | 67% |
| 13° | HORMIGON | 1.45 | 0% |
| 14° | BLOQUE HORMIGON | 1.72 | 75% |
| 15° | BENO | 2.74 | 50% |
| 16° | VIDRIO | 4.26 | 75% |



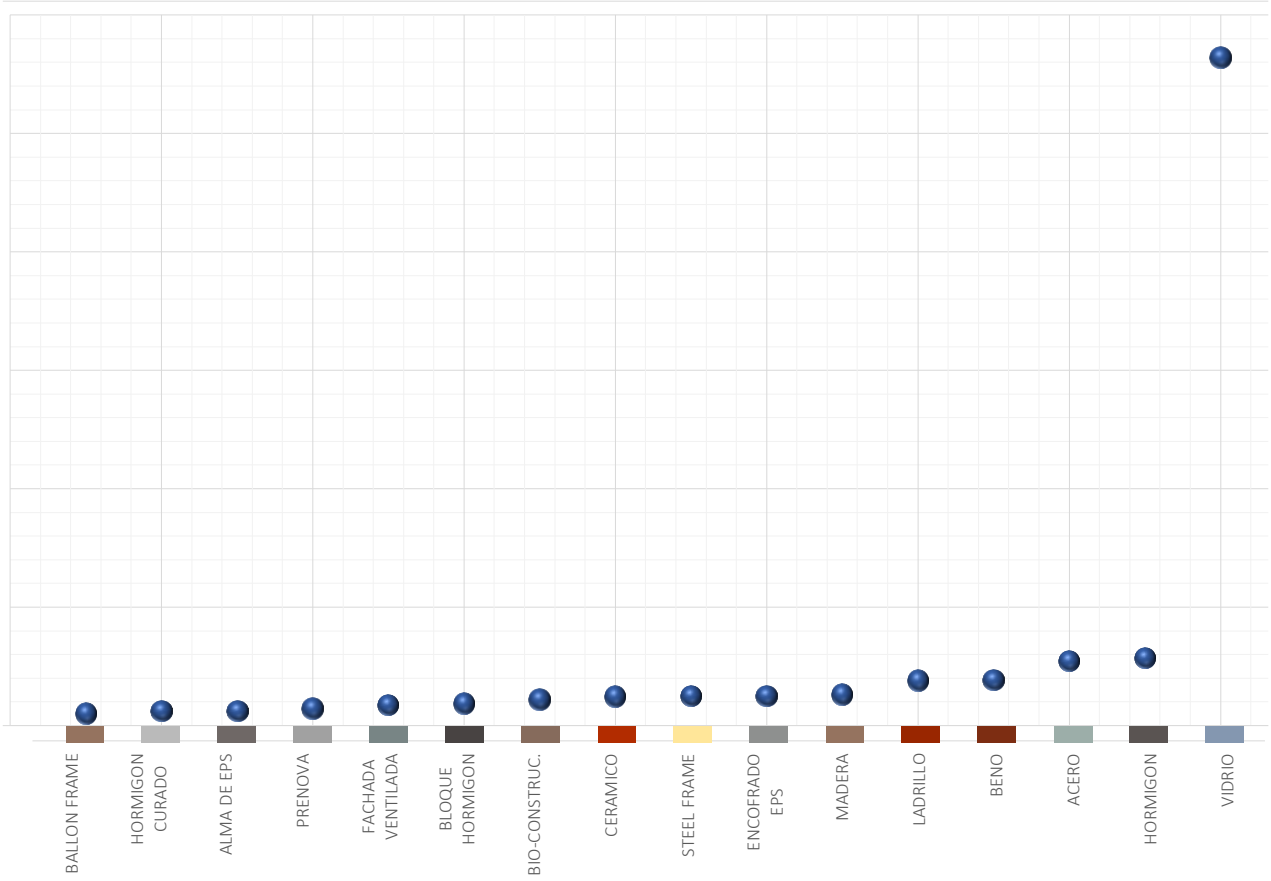
## RANKING FAMILIAS SEGÚN LA DEMANDA EN CICLO DE CALEFACCION PROMEDIO

| POSICION | FAMILIA | DEMANDA CALEFACCION | [kwh/m2/año] |
|---|---|---|---|
| 1° | PRENOVA | 29.87 | [kwh/m2/año] |
| 2° | ALMA DE EPS | 30.95 | [kwh/m2/año] |
| 3° | FACHADA VENTILADA | 31.13 | [kwh/m2/año] |
| 4° | HCCA | 31.36 | [kwh/m2/año] |
| 5° | STEEL FRAME | 31.86 | [kwh/m2/año] |
| 6° | BALLON FRAME | 32.30 | [kwh/m2/año] |
| 7° | BIO-CONSTRUC. | 39.01 | [kwh/m2/año] |
| 8° | BLOQUE HORMIGON | 40.31 | [kwh/m2/año] |
| 9° | ACERO | 40.43 | [kwh/m2/año] |
| 10° | CERAMICO | 40.65 | [kwh/m2/año] |
| 11° | MADERA | 42.20 | [kwh/m2/año] |
| 12° | LADRILLO | 42.59 | [kwh/m2/año] |
| 13° | ENCOFRADO EPS | 43.73 | [kwh/m2/año] |
| 14° | BENO | 47.81 | [kwh/m2/año] |
| 15° | HORMIGON | 47.97 | [kwh/m2/año] |
| 16° | VIDRIO | 85.86 | [kwh/m2/año] |



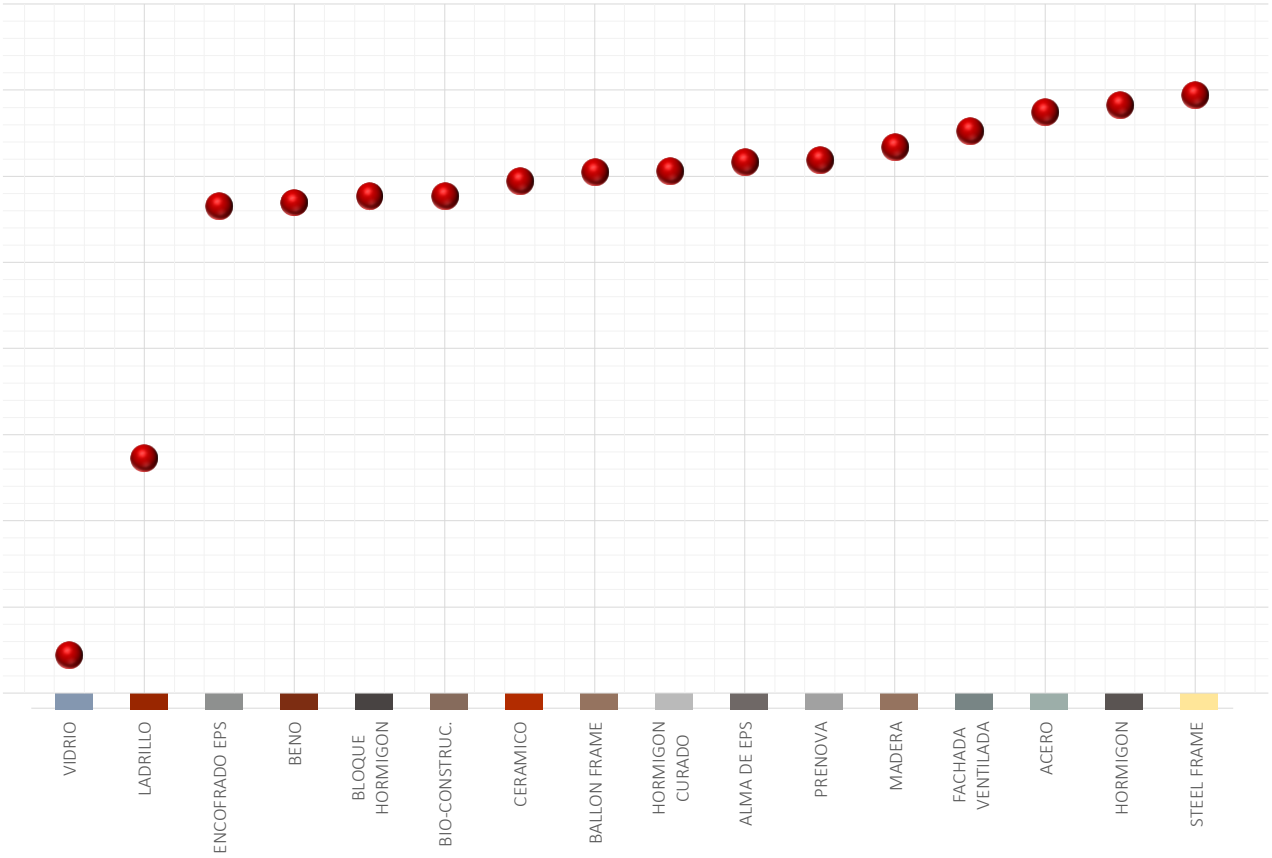
RANKING FAMILIAS SEGÚN LA DEMANDA EN CICLO DE REFRIGERACION PROMEDIO

| POSICION | FAMILIA | DEMANDA REFRIGERACION | [kwh/m2/año] |
|---|---|---|---|
| 1° | BALLON FRAME | 1.01 | [kwh/m2/año] |
| 2° | HCCA | 1.21 | [kwh/m2/año] |
| 3° | ALMA DE EPS | 1.21 | [kwh/m2/año] |
| 4° | PRENOVA | 1.44 | [kwh/m2/año] |
| 5° | FACHADA VENTILADA | 1.74 | [kwh/m2/año] |
| 6° | BLOQUE HORMIGON | 1.86 | [kwh/m2/año] |
| 7° | BIO-CONSTRUC. | 2.22 | [kwh/m2/año] |
| 8° | CERAMICO | 2.46 | [kwh/m2/año] |
| 9° | STEEL FRAME | 2.50 | [kwh/m2/año] |
| 10° | ENCOFRADO EPS | 2.51 | [kwh/m2/año] |
| 11° | MADERA | 2.65 | [kwh/m2/año] |
| 12° | LADRILLO | 3.81 | [kwh/m2/año] |
| 13° | BENO | 3.83 | [kwh/m2/año] |
| 14° | ACERO | 5.43 | [kwh/m2/año] |
| 15° | HORMIGON | 5.74 | [kwh/m2/año] |
| 16° | VIDRIO | 56.41 | [kwh/m2/año] |



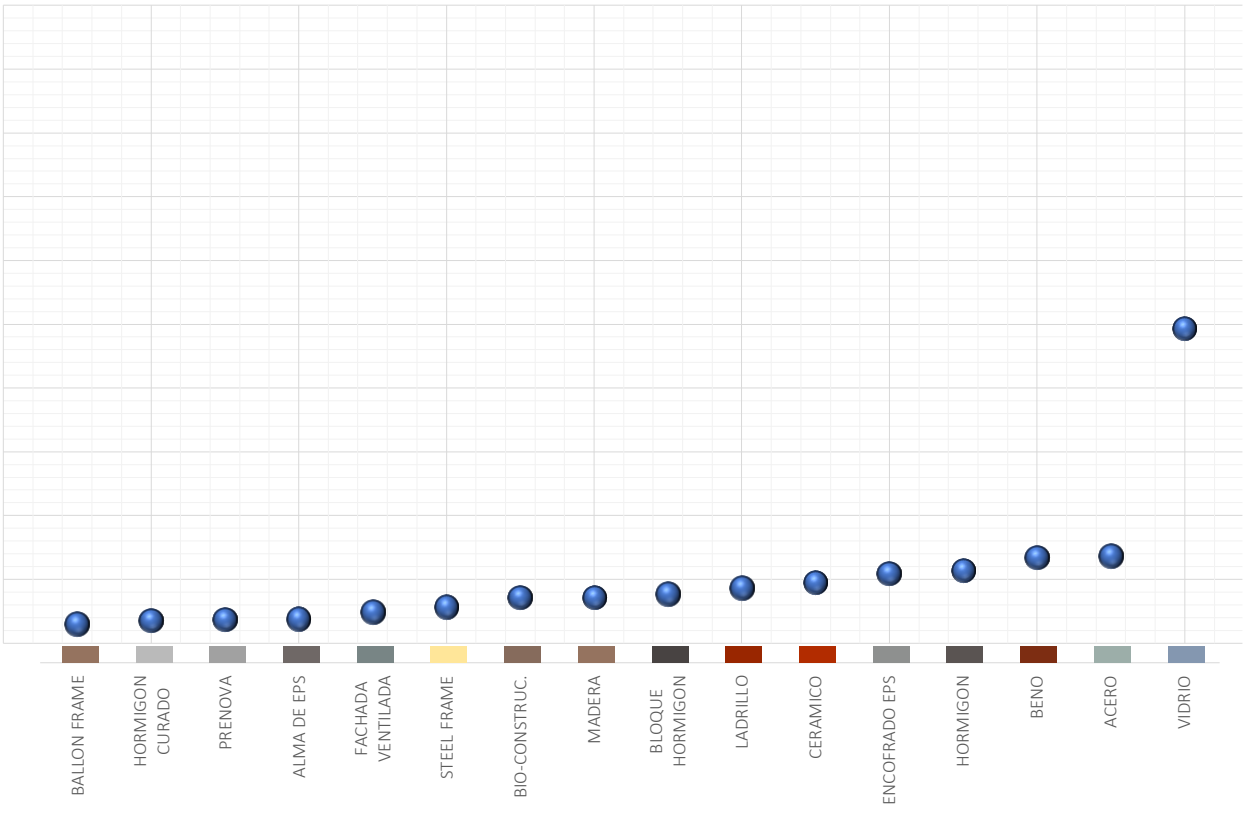
RANKING FAMILIAS SEGÚN HORAS DE DISCONFORT EN CICLO DE CALEFACCION PROMEDIO

| POSICION | FAMILIA | DISCONFORT CALEFACCION | HS |
|---|---|---|---|
| 1° | VIDRIO | 3944.20 | HS |
| 2° | LADRILLO | 4173.00 | HS |
| 3° | ENCOFRADO EPS | 4465.50 | HS |
| 4° | BENO | 4470.00 | HS |
| 5° | BLOQUE HORMIGON | 4476.75 | HS |
| 6° | BIO-CONSTRUC. | 4477.00 | HS |
| 7° | CERAMICO | 4494.33 | HS |
| 8° | BALLON FRAME | 4505.33 | HS |
| 9° | HCCA | 4506.12 | HS |
| 10° | ALMA DE EPS | 4516.36 | HS |
| 11° | PRENOVA | 4519.00 | HS |
| 12° | MADERA | 4533.75 | HS |
| 13° | FACHADA VENTILADA | 4552.61 | HS |
| 14° | ACERO | 4574.50 | HS |
| 15° | HORMIGON | 4582.56 | HS |
| 16° | STEEL FRAME | 4594.19 | HS |



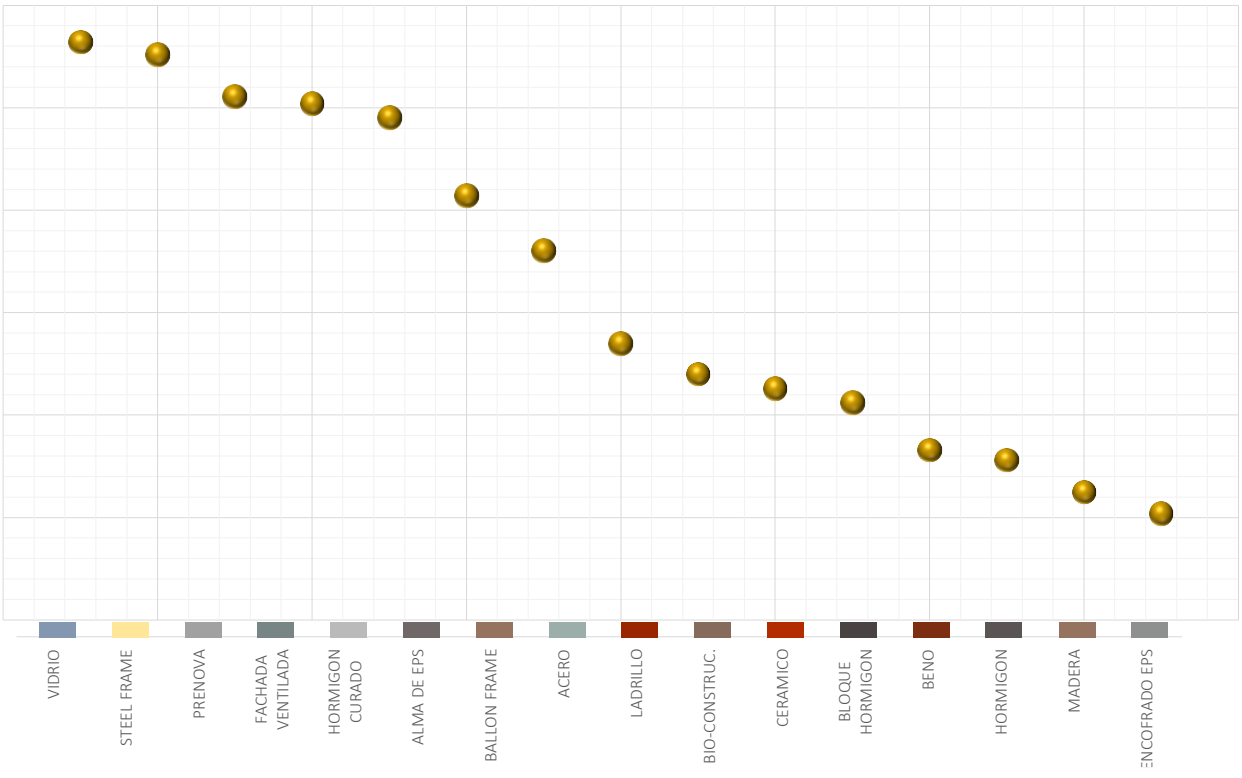
RANKING FAMILIAS SEGÚNHORAS DE DISCONFORT EN CICLO DE REFRIGERACION PROMEDIO

| POSICION | FAMILIA | DISCONFORT REFRIGERACION | Hs |
|---|---|---|---|
| 1° | BALLON FRAME | 150 | Hs |
| 2° | HCCA | 179 | Hs |
| 3° | PRENOVA | 186 | Hs |
| 4° | ALMA DE EPS | 190 | Hs |
| 5° | FACHADA VENTILADA | 245 | Hs |
| 6° | STEEL FRAME | 281 | Hs |
| 7° | BIO-CONSTRUC. | 358 | Hs |
| 8° | MADERA | 359 | Hs |
| 9° | BLOQUE HORMIGON | 384 | Hs |
| 10° | LADRILLO | 431 | Hs |
| 11° | CERAMICO | 475 | Hs |
| 12° | ENCOFRADO EPS | 548 | Hs |
| 13° | HORMIGON | 570 | Hs |
| 14° | BENO | 673 | Hs |
| 15° | ACERO | 683 | Hs |
| 16° | VIDRIO | 2468 | Hs |



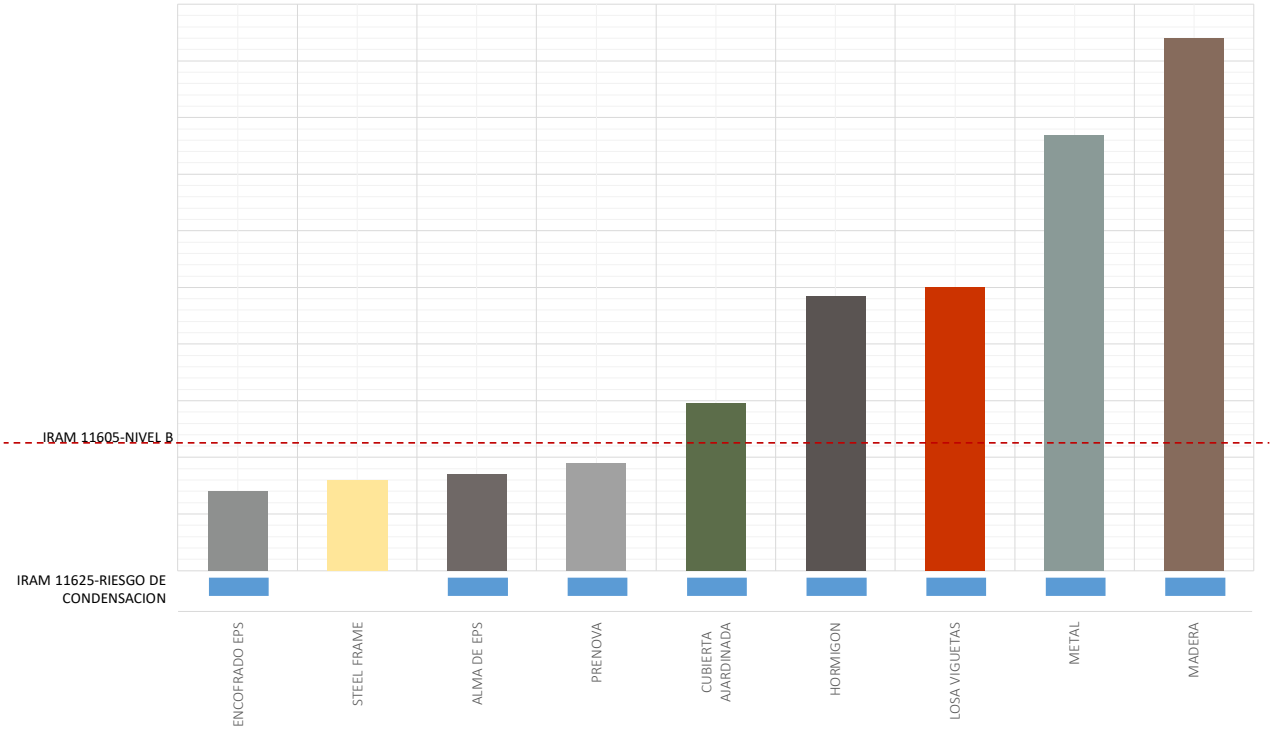
RANKING FAMILIAS SEGÚN LA DIFERENCIA DE TEMPERATURAS PROMEDIO

| POSICION | FAMILIA | diferencia temperatura |
|---|---|---|
| 1° | VIDRIO | 41.04 |
| 2° | STEEL FRAME | 31.32 |
| 3° | PRENOVA | 31.26 |
| 4° | FACHADA VENTILADA | 31.06 |
| 5° | HCCA | 31.02 |
| 6° | ALMA DE EPS | 30.95 |
| 7° | BALLON FRAME | 30.57 |
| 8° | ACERO | 30.31 |
| 9° | LADRILLO | 29.85 |
| 10° | BIO-CONSTRUC. | 29.70 |
| 11° | CERAMICO | 29.63 |
| 12° | BLOQUE HORMIGON | 29.56 |
| 13° | BENO | 29.33 |
| 14° | HORMIGON | 29.28 |
| 15° | MADERA | 29.12 |
| 16° | ENCOFRADO EPS | 29.02 |



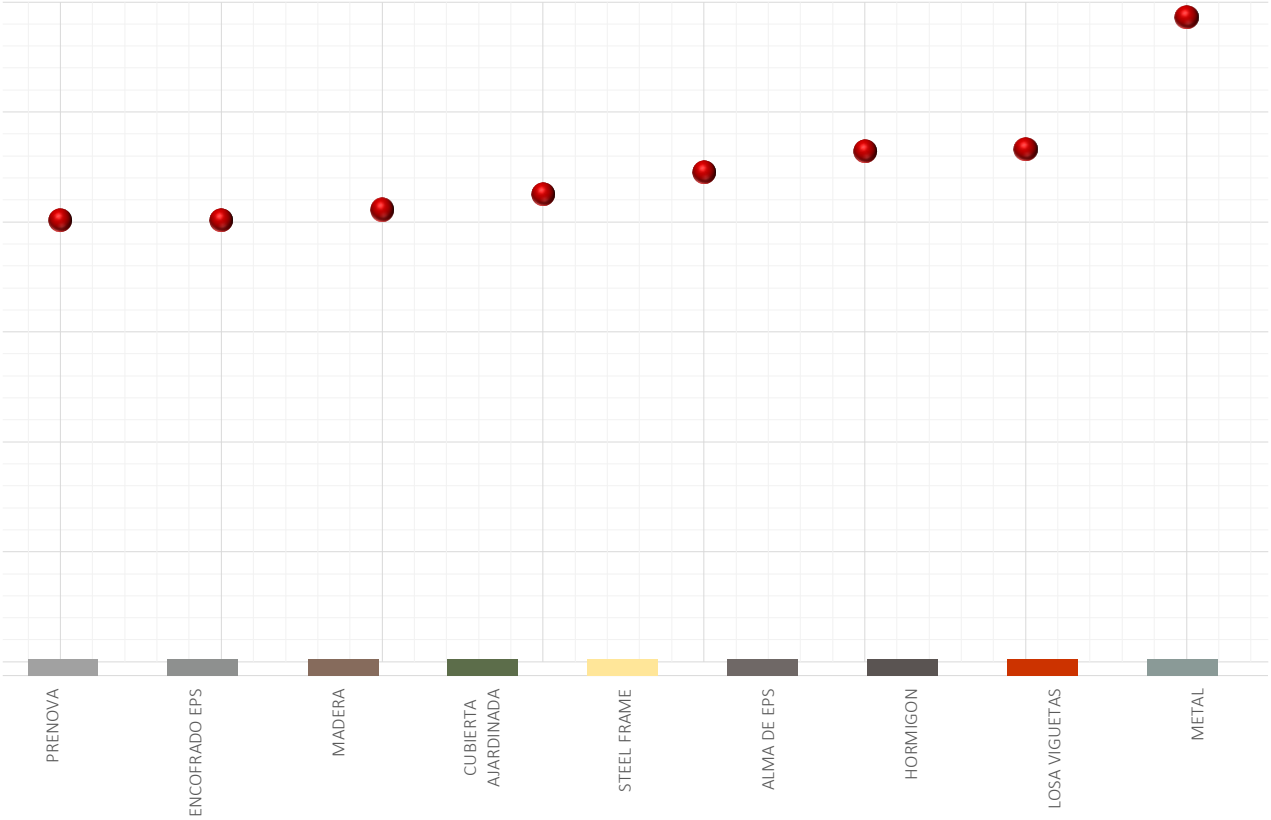
## RANKING FAMILIAS SEGÚN SU VALOR DE TRANSMITANCIA TERMICA PROMEDIO

| POSICION | FAMILIA | Valor K [ W/m2K] | RIESGO DE CONDENSACION |
|---|---|---|---|
| 1° | ENCOFRADO EPS | 0.28 | 100% |
| 2° | STEEL FRAME | 0.32 | 0% |
| 3° | ALMA DE EPS | 0.34 | 75% |
| 4° | PRENOVA | 0.38 | 100% |
| 5° | CUBIERTA AJARDINADA | 0.59 | 8% |
| 6° | HORMIGON | 0.97 | 32% |
| 7° | LOSA VIGUETAS | 1.00 | 73% |
| 8° | METAL | 1.54 | 13% |
| 9° | MADERA | 1.88 | 33% |



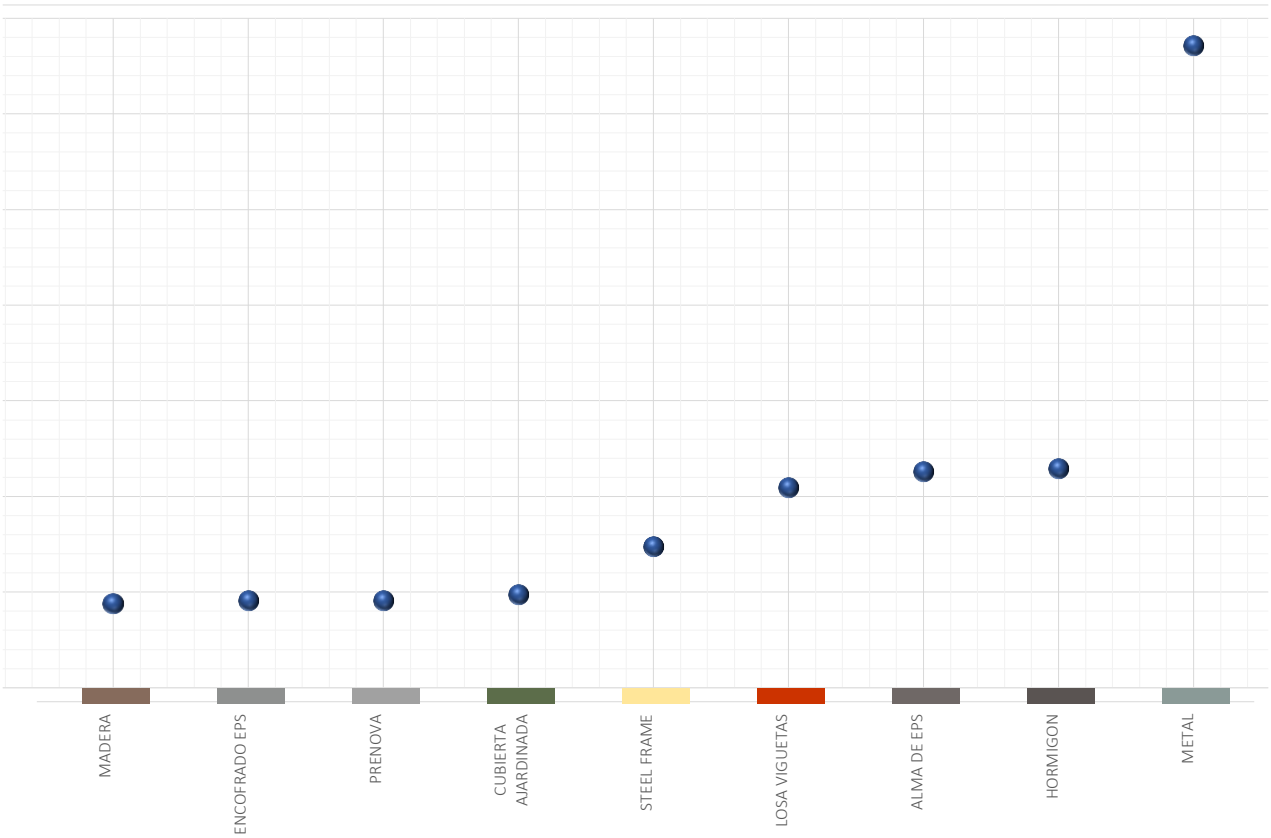
## RANKING FAMILIAS SEGÚN LA DEMANDA EN CICLO DE CALEFACCION PROMEDIO

| POSICION | FAMILIA | DEMANDA CALEFACCION | [kwh/m2/año] |
|---|---|---|---|
| 1° | PRENOVA | 40.08 | [kwh/m2/año] |
| 2° | ENCOFRADO EPS | 40.17 | [kwh/m2/año] |
| 3° | MADERA | 40.19 | [kwh/m2/año] |
| 4° | CUBIERTA AJARDINADA | 41.11 | [kwh/m2/año] |
| 5° | STEEL FRAME | 42.55 | [kwh/m2/año] |
| 6° | ALMA DE EPS | 44.54 | [kwh/m2/año] |
| 7° | HORMIGON | 46.42 | [kwh/m2/año] |
| 8° | LOSA VIGUETAS | 46.62 | [kwh/m2/año] |
| 9° | METAL | 58.63 | [kwh/m2/año] |



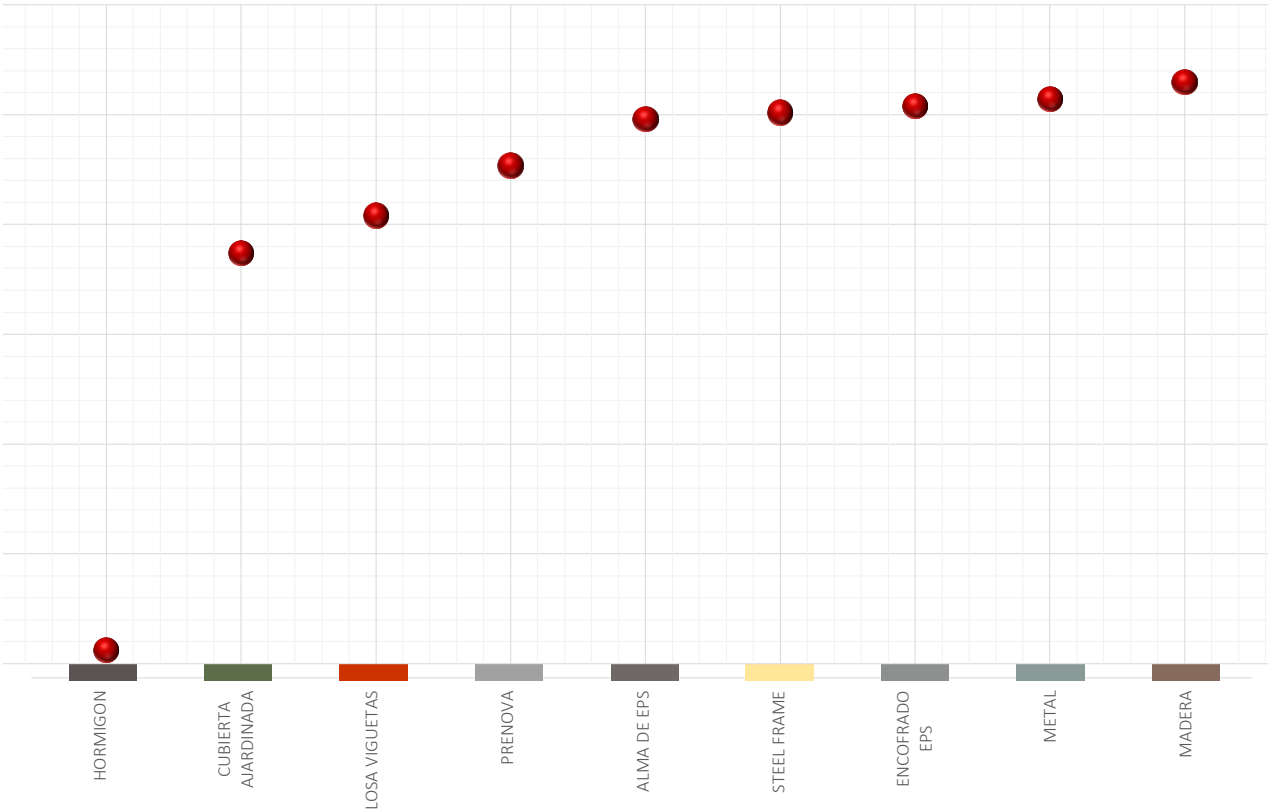
RANKING FAMILIAS SEGÚN LA DEMANDA EN CICLO DE REFRIGERACION PROMEDIO

| POSICION | FAMILIA | DEMANDA REFRIGERACION | [kwh/m2/año] |
|---|---|---|---|
| 1° | MADERA | 1.76 | [kwh/m2/año] |
| 2° | ENCOFRADO EPS | 1.82 | [kwh/m2/año] |
| 3° | PRENOVA | 1.83 | [kwh/m2/año] |
| 4° | CUBIERTA AJARDINADA | 1.95 | [kwh/m2/año] |
| 5° | STEEL FRAME | 2.95 | [kwh/m2/año] |
| 6° | LOSA VIGUETAS | 4.18 | [kwh/m2/año] |
| 7° | ALMA DE EPS | 4.52 | [kwh/m2/año] |
| 8° | HORMIGON | 4.59 | [kwh/m2/año] |
| 9° | METAL | 13.42 | [kwh/m2/año] |



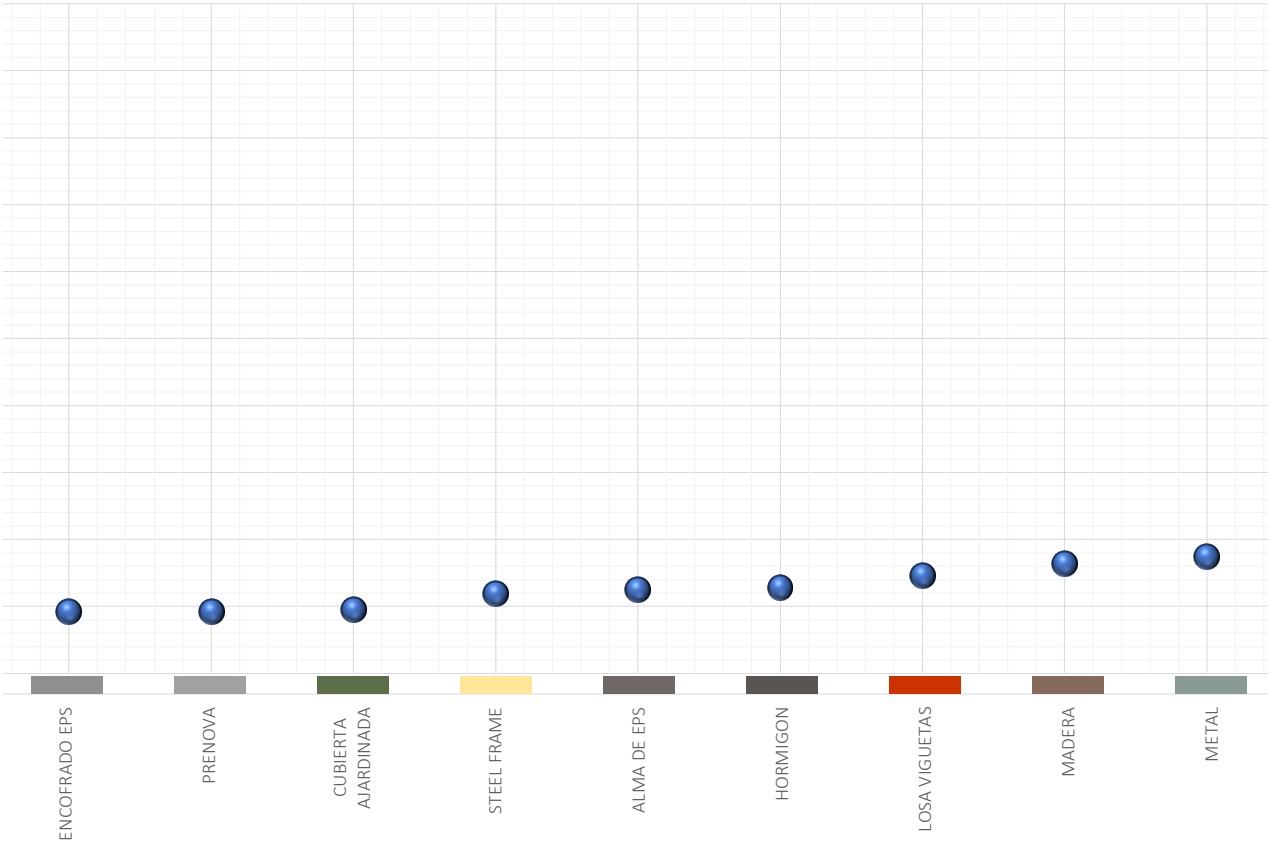
RANKING FAMILIAS SEGÚN HORAS DE DISCONFORT EN CICLO DE CALEFACCION PROMEDIO

| POSICION | FAMILIA | DISCONFORT CALEFACCION | HS |
|---|---|---|---|
| 1° | HORMIGON | 4356 | HS |
| 2° | CUBIERTA AJARDINADA | 4537 | HS |
| 3° | LOSA VIGUETAS | 4554 | HS |
| 4° | PRENOVA | 4577 | HS |
| 5° | ALMA DE EPS | 4598 | HS |
| 6° | STEEL FRAME | 4601 | HS |
| 7° | ENCOFRADO EPS | 4604 | HS |
| 8° | METAL | 4607 | HS |
| 9° | MADERA | 4615 | HS |



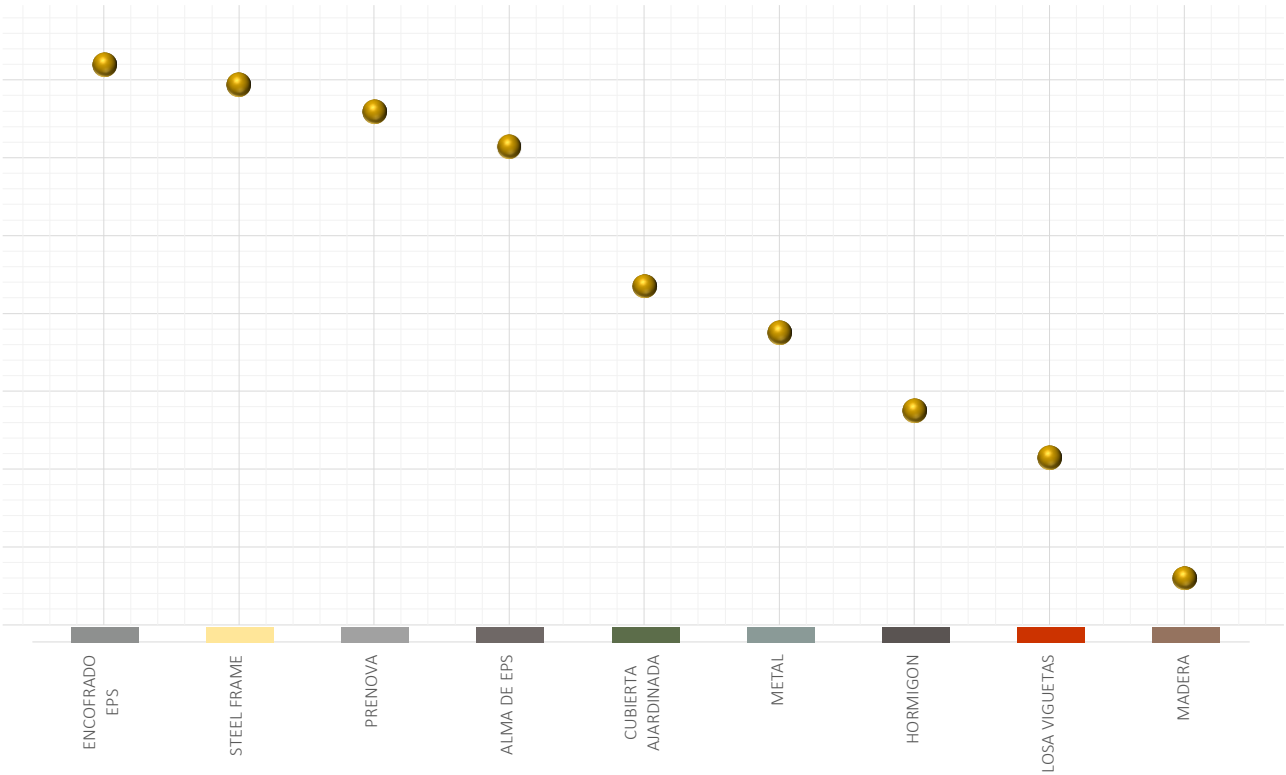
RANKING FAMILIAS SEGÚNHORAS DE DISCONFORT EN CICLO DE REFRIGERACION PROMEDIO

| POSICION | FAMILIA | DISCONFORT REFRIGERACION | Hs |
|---|---|---|---|
| 1° | ENCOFRADO EPS | 458 | Hs |
| 2° | PRENOVA | 464 | Hs |
| 3° | CUBIERTA AJARDINADA | 474 | Hs |
| 4° | STEEL FRAME | 595 | Hs |
| 5° | ALMA DE EPS | 629 | Hs |
| 6° | HORMIGON | 639 | Hs |
| 7° | LOSA VIGUETAS | 733 | Hs |
| 8° | MADERA | 821 | Hs |
| 9° | METAL | 873 | Hs |



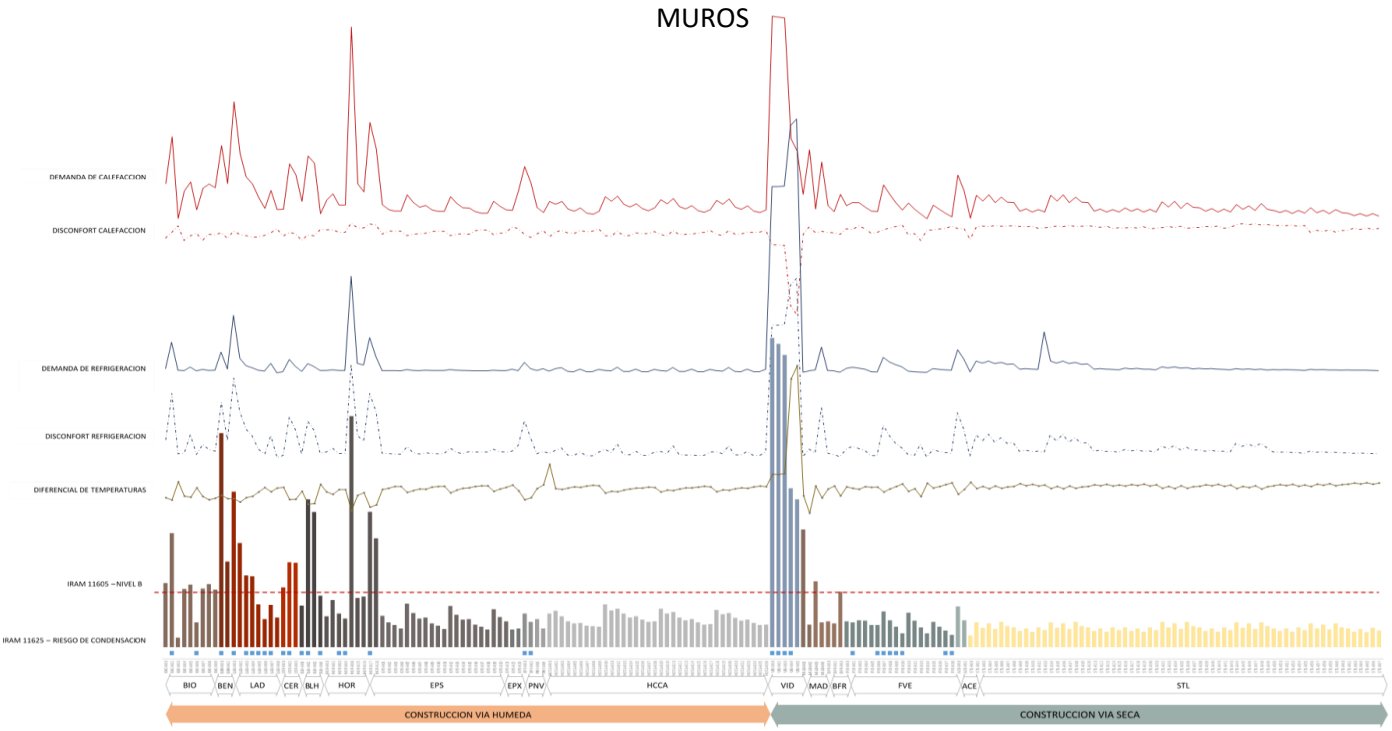
RANKING FAMILIAS SEGÚN LA DIFERENCIA DE TEMPERATURAS PROMEDIO

| POSICION | FAMILIA | diferencia temperatura |
|---|---|---|
| 1° | ENCOFRADO EPS | 30.24 |
| 2° | STEEL FRAME | 30.19 |
| 3° | PRENOVA | 30.12 |
| 4° | ALMA DE EPS | 30.03 |
| 5° | CUBIERTA AJARDINADA | 29.67 |
| 6° | METAL | 29.55 |
| 7° | HORMIGON | 29.35 |
| 8° | LOSA VIGUETAS | 29.23 |
| 9° | MADERA | 28.92 |

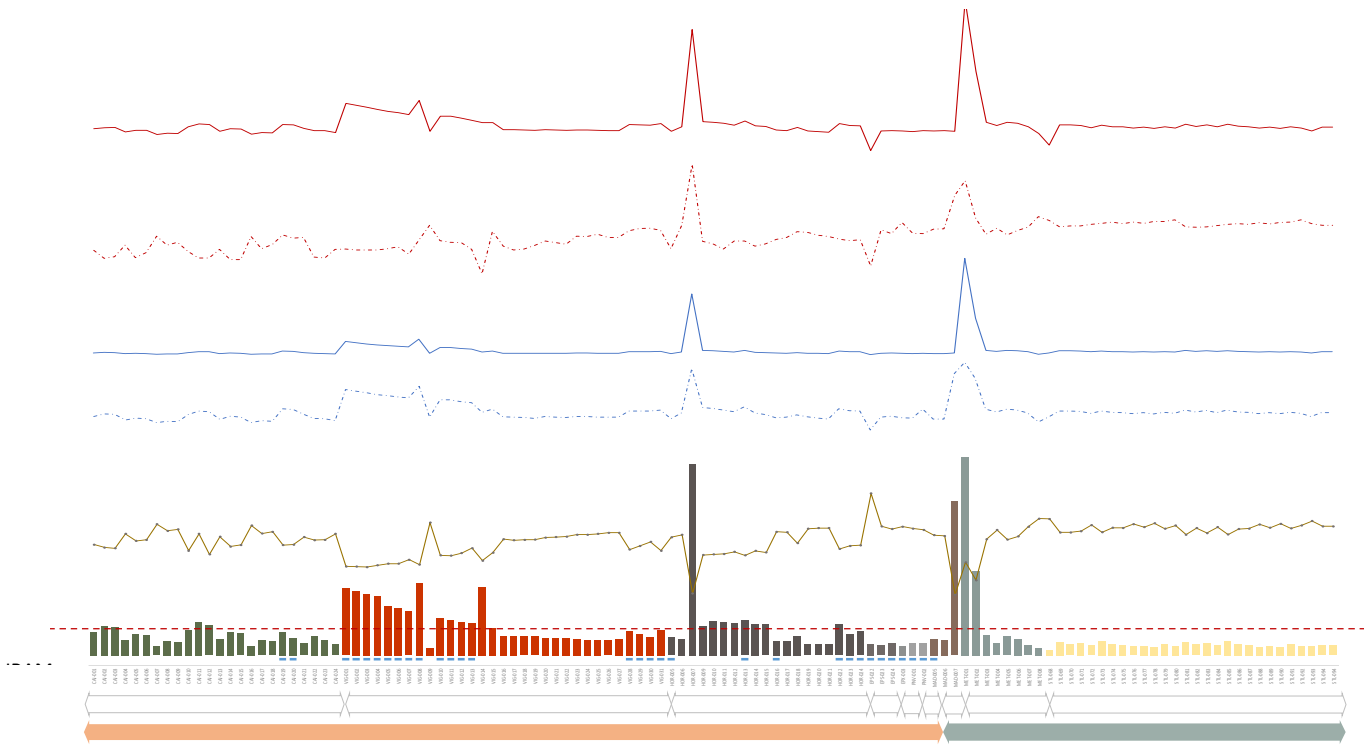


Finalmente se presenta la totalidad de las unidades tecnológicas comparadas en todas las variables de diagnóstico combinado para cada Categoría topológica, en orden de poder comparar las mismas utilizando distintos niveles de referencia en el paquete estático de variables.

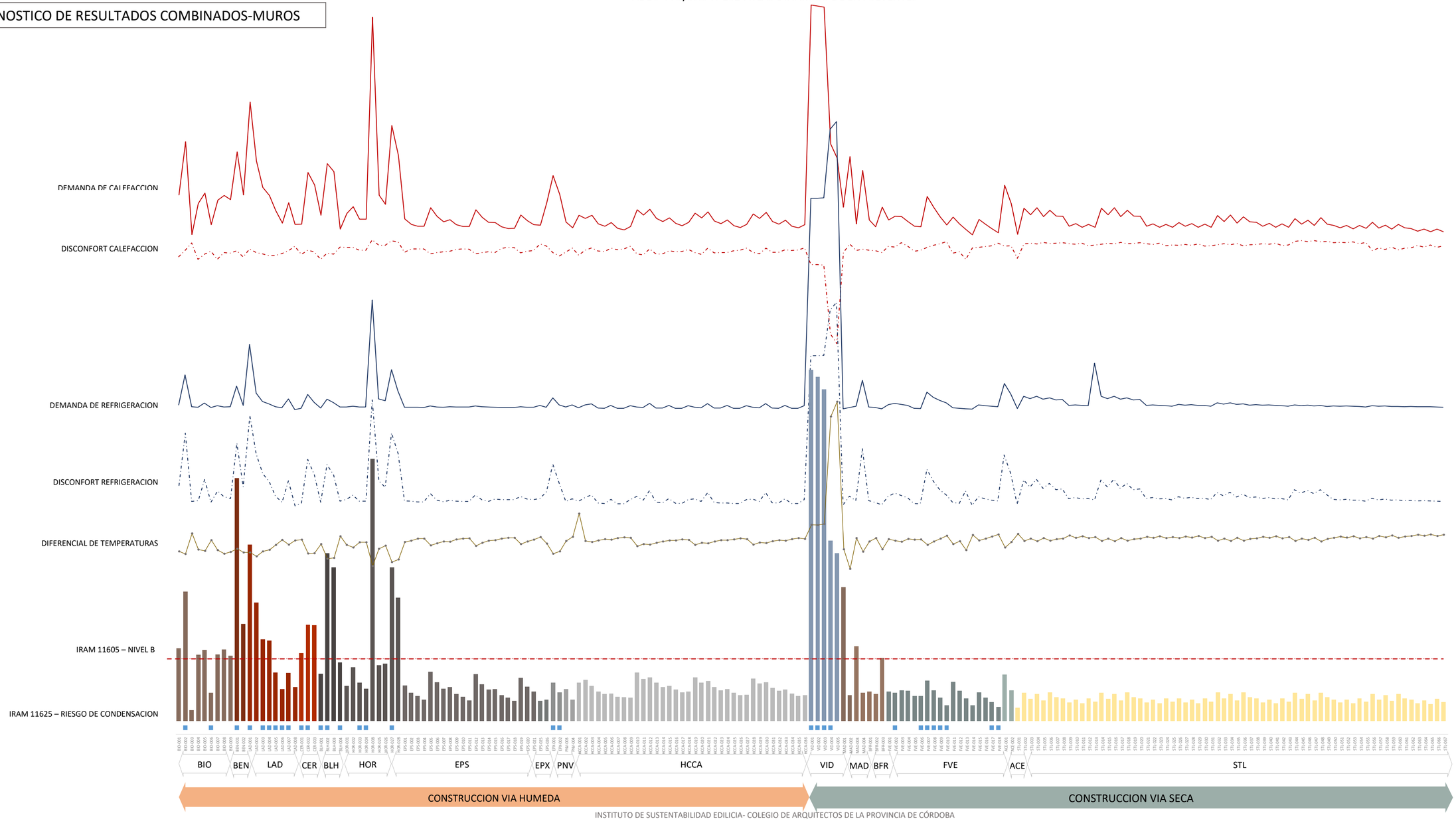
MUROS



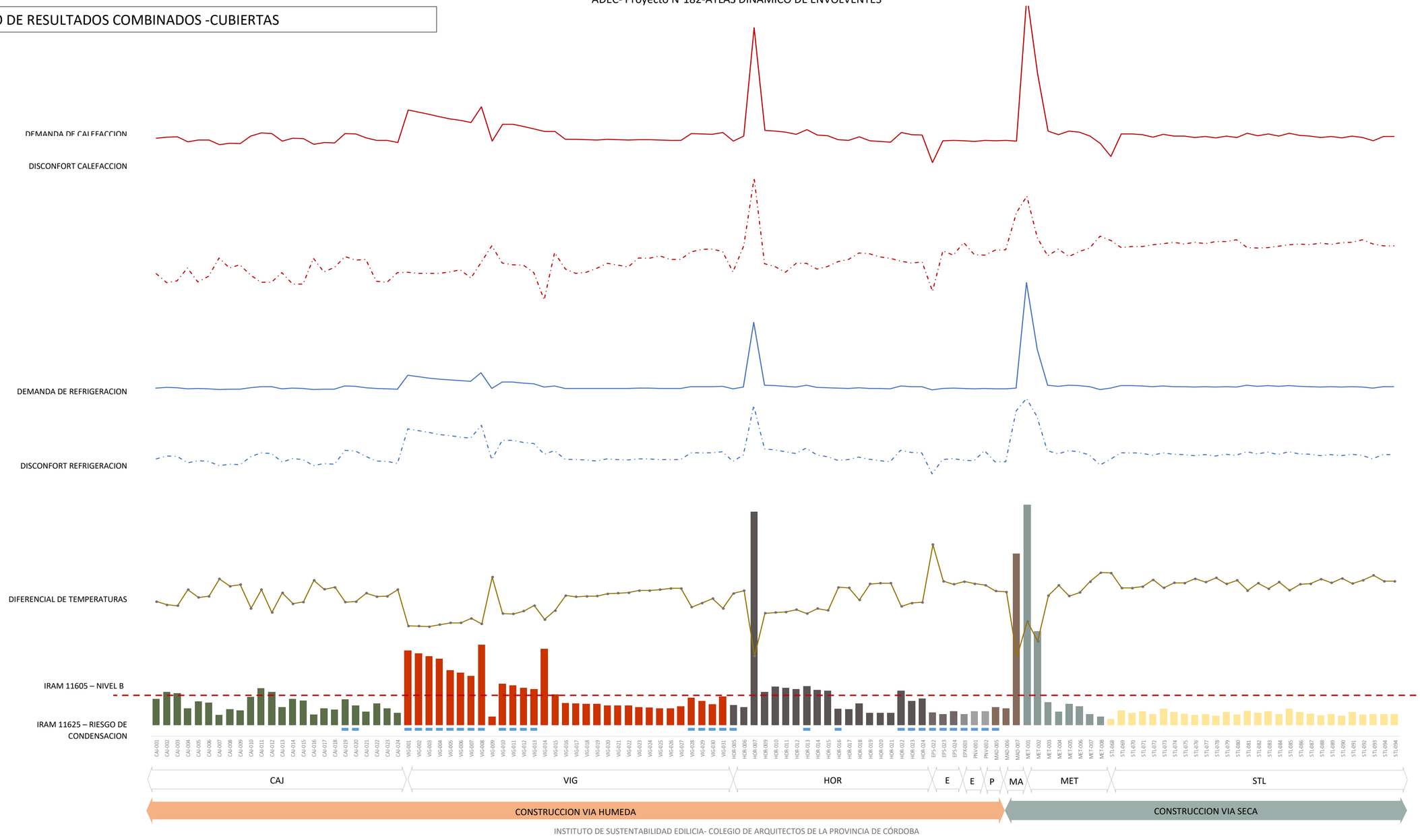

CUBIERTAS



# DIAGNOSTICO DE RESULTADOS COMBINADOS-MUROS



# DIAGNOSTICO DE RESULTADOS COMBINADOS -CUBIERTAS



# V
# REFERENCIA Y ANEXOS

## SOFTWARE UTILIZADO

- Autodesk Ecotect Analysis (2011) – Simulación energética
- EnergyPlus™ – Simulación energética
- Excel – Planillas de propiedades higrotérmicas (elaboración propia)

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- **Instituto de Arquitectura Sustentable, Colegio de Arquitectos de la Provincia de Córdoba. Equipo de Etiquetación Edilicia** Edgardo F. Suarez, et al**.**" *Sistema de Medición de Performances en Edificios - Etiquetación de Sustentabilidad Edilicia*" (2017) disponible en: https://www.academia.edu/36085197/SISTEMA_DE_MEDICI%C3%93N_DE_PERFOMANCES_EN_EDIFICIOS_ETIQUETACI%C3%93N_DE_SUSTENTABILIDAD_EDILICIA_?email_work_card=view-paper

- **GONZALO G.E.,** *"Manual de Arquitectura Bioclimática y Sustentable",(*2015.) (5ª edición) ISBN 950-43-9028-5 ) disponible en: https://www.academia.edu/39750062/ManualArquitecturaBioclimaticaSustentable_2015_CAP?email_work_card=view-paper

- **GONZALO R.E. y E.Ascárate. (1984).** *"Apuntes del curso: Acondicionamiento térmico de edificios en verano mediante energías naturales, Baruch Givoni, Mendoza".*

- **GONZALO G.E., Ledesma S.L.,** Nota V. (2000). *"Habitabilidad en edificios. Propuesta de Normas para Tucumán".*

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- **Norma IRAM 11605**, 1996. (con modificación 2002, 2004 y 2009), Acondicionamiento térmico de edificios. Condiciones de habitabilidad en edificios. Valores máximos de transmitancia térmica en cerramientos opacos
- **Norma IRAM 11625**, 2000, (con modificación 2002, 2006), Aislamiento térmico de edificios. Verificación de sus condiciones higrotérmicas. Verificación del riesgo de condensación de vapor de agua superficial e intersticial en los paños centrales de muros exteriores, pisos y techos de edificios en general.
- **Norma IRAM 11630**, 2000, ( con modificación 2002, 2006), Aislamiento térmico de edificios. Verificación de sus condiciones higrotérmicas. Verificación del riesgo de condensación de vapor de agua superficial e intersticial en puntos singulares de muros exteriores, pisos y techos de edificios en general.
- **Norma IRAM 11900,** 2017, Instituto Argentino de Normalización y Certificación, Prestaciones energéticas en viviendas. Método de cálculo.
- **Norma. ASTM** E-1980, 2011, AMERICAN SOCIETY FOR TESTING AND MATERIALS, Standard practice for calculating solar reflectance index of horizontal and low-sloped opaque Surfaces.
- **Norma IRAM 11601**, 2002, (revisión 2009) Instituto Argentino de Normalización y Certificación, Aislamiento térmico de edificios. Métodos de cálculo. Propiedades térmicas de los componentes y elementos de construcción en régimen estacionario
- **Norma ISO 17021**, La Norma ISO/IEC 17021-2 ha sido preparada por el Comité Técnico ISO/TC 207, Gestión ambiental, Subcomité SC 2, Auditoría ambiental e investigaciones ambientales relacionadas, y el Comité de ISO para la evaluación de la conformidad (CASCO). El proyecto fue sometido a votación de los organismos nacionales de ISO y de IEC (Comisión Electrotécnica Internacional) y fue aprobado por las dos organizaciones. La primera edición de la Norma ISO/IEC 17021-2 anula y sustituye a la Especificación Técnica ISO/IEC TS 17021-2:2012, que ha sido revisada técnicamente.

# RANKING DE ENVOLVENTES SEGÚN SU TRANSMITANCIA TERMICA

RANKING DE ENVOLVENTES SEGÚN SU TRANSMITANCIA TERMICA

| NUMERO ORDEN | NOMBRE | Valor K [W/m2K] INVIERNO | RIESGO CONDENS. |
|---|---|---|---|
| 1 | ACE-001 | 0.74 | |
| 2 | ACE-002 | 0.49 | |
| 3 | BEN-001 | 3.91 | ● |
| 4 | BEN-002 | 1.56 | |
| 5 | BFR-001 | 0.45 | |
| 6 | BFR-002 | 0.47 | |
| 7 | BFR-003 | 0.43 | |
| 8 | BIO-001 | 1.17 | |
| 9 | BIO-002 | 2.08 | ● |
| 10 | BIO-003 | 0.17 | |
| 11 | BIO-004 | 1.06 | |
| 12 | BIO-005 | 1.14 | |
| 13 | BIO-006 | 0.45 | ● |
| 14 | BIO-007 | 1.07 | |
| 15 | BIO-008 | 1.15 | |
| 16 | BIO-009 | 1.05 | |
| 17 | BLH-001 | 0.76 | ● |
| 18 | BLH-002 | 2.7 | ● |
| 19 | BLH-003 | 2.47 | ● |
| 20 | BLH-004 | 0.94 | |
| 21 | CER-001 | 1.09 | ● |
| 22 | CER-002 | 1.55 | ● |
| 23 | CER-003 | 1.54 | |
| 24 | EPS-001 | 0.57 | |
| 25 | EPS-002 | 0.45 | |
| 26 | EPS-003 | 0.4 | |
| 27 | EPS-004 | 0.34 | |
| 28 | EPS-005 | 0.79 | |
| 29 | EPS-006 | 0.62 | |
| 30 | EPS-007 | 0.52 | |
| 31 | EPS-008 | 0.54 | |
| 32 | EPS-009 | 0.43 | |
| 33 | EPS-010 | 0.39 | |

RANKING DE ENVOLVENTES SEGÚN SU TRANSMITANCIA TERMICA

| NUMERO ORDEN | NOMBRE | Valor K [W/m2K] INVIERNO | RIESGO CONDENS. |
|---|---|---|---|
| 34 | EPS-011 | 0.33 | |
| 35 | EPS-012 | 0.75 | |
| 36 | EPS-013 | 0.59 | |
| 37 | EPS-014 | 0.5 | |
| 38 | EPS-015 | 0.51 | |
| 39 | EPS-016 | 0.41 | |
| 40 | EPS-017 | 0.37 | |
| 41 | EPS-018 | 0.32 | |
| 42 | EPS-019 | 0.69 | |
| 43 | EPS-020 | 0.55 | |
| 44 | EPS-021 | 0.47 | |
| 45 | EPS-025 | 0.32 | |
| 46 | EPS-026 | 0.34 | |
| 47 | EPX-001 | 0.61 | ● |
| 48 | EPX-002 | 0.46 | ● |
| 49 | FVE-001 | 0.47 | ● |
| 50 | FVE-002 | 0.45 | ● |
| 51 | FVE-003 | 0.49 | ● |
| 52 | FVE-004 | 0.48 | ● |
| 53 | FVE-005 | 0.4 | |
| 54 | FVE-006 | 0.4 | ● |
| 55 | FVE-007 | 0.65 | ● |
| 56 | FVE-008 | 0.49 | ● |
| 57 | FVE-009 | 0.37 | ● |
| 58 | FVE-010 | 0.25 | ● |
| 59 | FVE-011 | 0.63 | |
| 60 | FVE-012 | 0.48 | |
| 61 | FVE-013 | 0.36 | |
| 62 | FVE-014 | 0.25 | |
| 63 | FVE-015 | 0.46 | |
| 64 | FVE-016 | 0.37 | |
| 65 | FVE-017 | 0.3 | ● |
| 66 | FVE-018 | 0.22 | ● |

RANKING DE ENVOLVENTES SEGÚN SU TRANSMITANCIA TERMICA

| NUMERO ORDEN | NOMBRE | | Valor K [W/m2K] INVIERNO | RIESGO CONDENS. |
|---|---|---|---|---|
| 67 | | HCCA-001 | 0.61 | |
| 68 | | HCCA-002 | 0.56 | |
| 69 | | HCCA-003 | 0.47 | |
| 70 | | HCCA-004 | 0.43 | |
| 71 | | HCCA-005 | 0.44 | |
| 72 | | HCCA-006 | 0.39 | |
| 73 | | HCCA-007 | 0.38 | |
| 74 | | HCCA-008 | 0.37 | |
| 75 | | HCCA-009 | 0.78 | |
| 76 | | HCCA-010 | 0.67 | |
| 77 | | HCCA-011 | 0.7 | |
| 78 | | HCCA-012 | 0.61 | |
| 79 | | HCCA-013 | 0.54 | |
| 80 | | HCCA-014 | 0.56 | |
| 81 | | HCCA-015 | 0.5 | |
| 82 | | HCCA-016 | 0.46 | |
| 83 | | HCCA-017 | 0.47 | |
| 84 | | HCCA-018 | 0.7 | |
| 85 | | HCCA-019 | 0.61 | |
| 86 | | HCCA-020 | 0.64 | |
| 87 | | HCCA-021 | 0.54 | |
| 88 | | HCCA-022 | 0.49 | |
| 89 | | HCCA-023 | 0.51 | |
| 90 | | HCCA-024 | 0.45 | |
| 91 | | HCCA-025 | 0.41 | |
| 92 | | HCCA-026 | 0.42 | |
| 93 | | HCCA-027 | 0.68 | |
| 94 | | HCCA-028 | 0.6 | |
| 95 | | HCCA-029 | 0.62 | |
| 96 | | HCCA-030 | 0.53 | |
| 97 | | HCCA-031 | 0.48 | |
| 98 | | HCCA-032 | 0.5 | |
| 99 | | HCCA-033 | 0.44 | |

RANKING DE ENVOLVENTES SEGÚN SU TRANSMITANCIA TERMICA

| NUMERO ORDEN | NOMBRE | Valor K [W/m2K] INVIERNO | RIESGO CONDENS. |
|---|---|---|---|
| 100 | HCCA-034 | 0.4 | |
| 101 | HCCA-035 | 0.41 | |
| 102 | HOR-001 | 0.56 | |
| 103 | HOR-002 | 0.86 | |
| 104 | HOR-003 | 0.61 | ● |
| 105 | HOR-004 | 0.52 | ● |
| 106 | HOR-008 | 4.22 | |
| 107 | HOR-025 | 0.90 | |
| 108 | HOR-026 | 0.92 | ● |
| 109 | HOR-027 | 2.47 | |
| 110 | HOR-028 | 1.99 | |
| 111 | LAD-001 | 2.84 | ● |
| 112 | LAD-002 | 1.9 | |
| 113 | LAD-003 | 1.31 | ● |
| 114 | LAD-004 | 1.29 | ● |
| 115 | LAD-005 | 0.78 | ● |
| 116 | LAD-006 | 0.51 | ● |
| 117 | LAD-007 | 0.77 | ● |
| 118 | LAD-008 | 0.54 | |
| 119 | MAD-001 | 1.01 | |
| 120 | MAD-002 | 2.15 | |
| 121 | MAD-003 | 0.47 | |
| 122 | MAD-004 | 1.2 | |
| 123 | PNV-003 | 0.51 | ● |
| 124 | PNV-004 | 0.34 | ● |
| 125 | STL-001 | 0.21 | |
| 126 | STL-002 | 0.45 | |
| 127 | STL-003 | 0.35 | |
| 128 | STL-004 | 0.43 | |
| 129 | STL-005 | 0.33 | |
| 130 | STL-006 | 0.46 | |
| 131 | STL-007 | 0.38 | |
| 132 | STL-008 | 0.36 | |
| 133 | STL-009 | 0.29 | |

RANKING DE ENVOLVENTES SEGÚN SU TRANSMITANCIA TERMICA

| NUMERO ORDEN | NOMBRE | | Valor K [W/m2K] INVIERNO | RIESGO CONDENS. |
|---|---|---|---|---|
| 134 | | STL-010 | 0.34 | |
| 135 | | STL-011 | 0.28 | |
| 136 | | STL-012 | 0.36 | |
| 137 | | STL-013 | 0.31 | |
| 138 | | STL-014 | 0.45 | |
| 139 | | STL-015 | 0.35 | |
| 140 | | STL-016 | 0.43 | |
| 141 | | STL-017 | 0.33 | |
| 142 | | STL-018 | 0.46 | |
| 143 | | STL-019 | 0.38 | |
| 144 | | STL-020 | 0.36 | |
| 145 | | STL-021 | 0.29 | |
| 146 | | STL-022 | 0.34 | |
| 147 | | STL-023 | 0.28 | |
| 148 | | STL-024 | 0.36 | |
| 149 | | STL-025 | 0.31 | |
| 150 | | STL-026 | 0.36 | |
| 151 | | STL-027 | 0.29 | |
| 152 | | STL-028 | 0.34 | |
| 153 | | STL-029 | 0.28 | |
| 154 | | STL-030 | 0.36 | |
| 155 | | STL-031 | 0.31 | |
| 156 | | STL-032 | 0.46 | |
| 157 | | STL-033 | 0.36 | |
| 158 | | STL-034 | 0.43 | |
| 159 | | STL-035 | 0.33 | |
| 160 | | STL-036 | 0.46 | |
| 161 | | STL-037 | 0.38 | |
| 162 | | STL-038 | 0.36 | |
| 163 | | STL-039 | 0.29 | |
| 164 | | STL-040 | 0.34 | |
| 165 | | STL-041 | 0.28 | |

RANKING DE ENVOLVENTES SEGÚN SU TRANSMITANCIA TERMICA

| NUMERO ORDEN | NOMBRE | | Valor K [W/m2K] INVIERNO | RIESGO CONDENS. |
|---|---|---|---|---|
| 166 | | STL-042 | 0.36 | |
| 167 | | STL-043 | 0.31 | |
| 168 | | STL-044 | 0.45 | |
| 169 | | STL-045 | 0.35 | |
| 170 | | STL-046 | 0.43 | |
| 171 | | STL-047 | 0.33 | |
| 172 | | STL-048 | 0.45 | |
| 173 | | STL-049 | 0.38 | |
| 174 | | STL-050 | 0.34 | |
| 175 | | STL-051 | 0.29 | |
| 176 | | STL-052 | 0.34 | |
| 177 | | STL-053 | 0.28 | |
| 178 | | STL-054 | 0.36 | |
| 179 | | STL-055 | 0.31 | |
| 180 | | STL-056 | 0.43 | |
| 181 | | STL-057 | 0.34 | |
| 182 | | STL-058 | 0.41 | |
| 183 | | STL-059 | 0.32 | |
| 184 | | STL-060 | 0.43 | |
| 185 | | STL-061 | 0.36 | |
| 186 | | STL-062 | 0.34 | |
| 187 | | STL-063 | 0.28 | |
| 188 | | STL-064 | 0.33 | |
| 189 | | STL-065 | 0.27 | |
| 190 | | STL-066 | 0.35 | |
| 191 | | STL-067 | 0.3 | |
| 192 | | VID-001 | 5.65 | |
| 193 | | VID-002 | 5.54 | |
| 194 | | VID-003 | 5.34 | |
| 195 | | VID-004 | 2.9 | |
| 196 | | VID-005 | 1.85 | |

# RANKING DE ENVOLVENTES SEGÚN SU DIFERENCIAL DE TEMPERATURA

## RANKING DE ENVOLVENTES SEGÚN SU DIFERENCIAL DE TEMPERATURA

| NUMERO ORDEN | NOMBRE | DIFERENCIAL TEMPERATURA |
|---|---|---|
| 1 | VID-005 | 53.47 |
| 2 | VID-004 | 51.06 |
| 3 | HCCA-001 | 35.36 |
| 4 | VID-003 | 33.64 |
| 5 | VID-001 | 33.52 |
| 6 | VID-002 | 33.5 |
| 7 | BIO-003 | 32.12 |
| 8 | STL-001 | 32.04 |
| 9 | FVE-018 | 31.97 |
| 10 | STL-065 | 31.97 |
| 11 | STL-063 | 31.91 |
| 12 | STL-067 | 31.9 |
| 13 | FVE-014 | 31.86 |
| 14 | STL-009 | 31.8 |
| 15 | STL-059 | 31.78 |
| 16 | FVE-010 | 31.76 |
| 17 | STL-064 | 31.76 |
| 18 | STL-062 | 31.71 |
| 19 | STL-057 | 31.7 |
| 20 | STL-066 | 31.7 |
| 21 | STL-029 | 31.69 |
| 22 | BLH-004 | 31.68 |
| 23 | STL-053 | 31.68 |
| 24 | STL-011 | 31.67 |
| 25 | STL-023 | 31.67 |
| 26 | STL-041 | 31.66 |
| 27 | FVE-017 | 31.62 |
| 28 | STL-027 | 31.62 |
| 29 | STL-061 | 31.62 |
| 30 | STL-051 | 31.61 |
| 31 | PNV-004 | 31.6 |
| 32 | STL-021 | 31.6 |
| 33 | STL-039 | 31.59 |

RANKING DE ENVOLVENTES SEGÚN SU DIFERENCIAL DE TEMPERATURA

| NUMERO ORDEN | NOMBRE | | DIFERENCIAL TEMPERATURA |
|---|---|---|---|
| 34 | | STL-031 | 31.57 |
| 35 | | STL-013 | 31.55 |
| 36 | | STL-025 | 31.55 |
| 37 | | STL-043 | 31.54 |
| 38 | | STL-055 | 31.54 |
| 39 | | EPS-025 | 31.53 |
| 40 | | HCCA-007 | 31.51 |
| 41 | | STL-058 | 31.48 |
| 42 | | STL-028 | 31.44 |
| 43 | | EPS-018 | 31.42 |
| 44 | | STL-010 | 31.42 |
| 45 | | STL-022 | 31.42 |
| 46 | | STL-050 | 31.42 |
| 47 | | STL-052 | 31.42 |
| 48 | | STL-035 | 31.41 |
| 49 | | HCCA-008 | 31.4 |
| 50 | | STL-040 | 31.4 |
| 51 | | STL-047 | 31.4 |
| 52 | | STL-060 | 31.4 |
| 53 | | EPS-017 | 31.39 |
| 54 | | STL-030 | 31.38 |
| 55 | | HCCA-006 | 31.37 |
| 56 | | STL-005 | 31.37 |
| 57 | | STL-017 | 31.37 |
| 58 | | STL-026 | 31.37 |
| 59 | | MAD-003 | 31.36 |
| 60 | | BFR-003 | 31.36 |
| 61 | | STL-012 | 31.36 |
| 62 | | STL-024 | 31.36 |
| 63 | | HCCA-034 | 31.35 |
| 64 | | STL-042 | 31.34 |
| 65 | | STL-054 | 31.34 |
| 66 | | STL-038 | 31.33 |

RANKING DE ENVOLVENTES SEGÚN SU DIFERENCIAL DE TEMPERATURA

| NUMERO ORDEN | NOMBRE | DIFERENCIAL TEMPERATURA |
|---|---|---|
| 67 | HCCA-025 | 31.32 |
| 68 | EPS-011 | 31.31 |
| 69 | EPS-010 | 31.3 |
| 70 | FVE-016 | 31.3 |
| 71 | STL-033 | 31.3 |
| 72 | STL-045 | 31.3 |
| 73 | EPS-004 | 31.29 |
| 74 | FVE-009 | 31.29 |
| 75 | STL-008 | 31.29 |
| 76 | STL-020 | 31.29 |
| 77 | STL-056 | 31.29 |
| 78 | EPS-003 | 31.28 |
| 79 | EPS-016 | 31.28 |
| 80 | STL-003 | 31.27 |
| 81 | STL-015 | 31.27 |
| 82 | HCCA-035 | 31.25 |
| 83 | FVE-004 | 31.23 |
| 84 | STL-037 | 31.23 |
| 85 | STL-049 | 31.23 |
| 86 | HCCA-004 | 31.22 |
| 87 | HCCA-026 | 31.22 |
| 88 | STL-007 | 31.21 |
| 89 | STL-019 | 31.21 |
| 90 | HCCA-033 | 31.19 |
| 91 | FVE-001 | 31.18 |
| 92 | FVE-006 | 31.17 |
| 93 | HCCA-016 | 31.16 |
| 94 | HCCA-024 | 31.16 |
| 95 | EPS-009 | 31.15 |
| 96 | CER-001 | 31.12 |
| 97 | EPS-021 | 31.12 |
| 98 | HCCA-005 | 31.12 |
| 99 | FVE-005 | 31.1 |

## RANKING DE ENVOLVENTES SEGÚN SU DIFERENCIAL DE TEMPERATURA

| NUMERO ORDEN | NOMBRE | DIFERENCIAL TEMPERATURA |
|---|---|---|
| 100 | LAD-006 | 31.09 |
| 101 | STL-046 | 31.09 |
| 102 | HCCA-017 | 31.06 |
| 103 | HCCA-031 | 31.05 |
| 104 | EPS-015 | 31.04 |
| 105 | BIO-006 | 31.02 |
| 106 | HCCA-022 | 31.01 |
| 107 | HCCA-023 | 31.01 |
| 108 | LAD-008 | 30.99 |
| 109 | HCCA-003 | 30.99 |
| 110 | FVE-015 | 30.99 |
| 111 | HCCA-015 | 30.98 |
| 112 | EPS-002 | 30.96 |
| 113 | FVE-002 | 30.96 |
| 114 | EPS-014 | 30.95 |
| 115 | HCCA-032 | 30.95 |
| 116 | STL-036 | 30.95 |
| 117 | STL-018 | 30.94 |
| 118 | STL-006 | 30.93 |
| 119 | STL-032 | 30.93 |
| 120 | PNV-003 | 30.92 |
| 121 | STL-044 | 30.92 |
| 122 | STL-002 | 30.91 |
| 123 | STL-014 | 30.91 |
| 124 | STL-034 | 30.91 |
| 125 | HCCA-030 | 30.88 |
| 126 | FVE-012 | 30.88 |
| 127 | BFR-001 | 30.86 |
| 128 | HCCA-013 | 30.84 |
| 129 | EPS-007 | 30.81 |
| 130 | EPS-020 | 30.8 |
| 131 | HCCA-021 | 30.8 |
| 132 | BFR-002 | 30.8 |
| 133 | FVE-008 | 30.8 |

RANKING DE ENVOLVENTES SEGÚN SU DIFERENCIAL DE TEMPERATURA

| NUMERO ORDEN | NOMBRE | DIFERENCIAL TEMPERATURA |
|---|---|---|
| 134 | STL-048 | 30.8 |
| 135 | FVE-003 | 30.79 |
| 136 | EPS-008 | 30.78 |
| 137 | HCCA-014 | 30.75 |
| 138 | ACE-002 | 30.75 |
| 139 | HCCA-002 | 30.73 |
| 140 | EPS-001 | 30.72 |
| 141 | HOR-003 | 30.68 |
| 142 | HOR-004 | 30.68 |
| 143 | HCCA-028 | 30.63 |
| 144 | EPS-013 | 30.6 |
| 145 | HCCA-012 | 30.6 |
| 146 | HCCA-019 | 30.59 |
| 147 | HCCA-029 | 30.55 |
| 148 | EPS-006 | 30.54 |
| 149 | HCCA-020 | 30.52 |
| 150 | EPS-026 | 30.48 |
| 151 | EPS-019 | 30.41 |
| 152 | BLH-001 | 30.4 |
| 153 | HCCA-010 | 30.4 |
| 154 | FVE-011 | 30.38 |
| 155 | HCCA-011 | 30.33 |
| 156 | HCCA-027 | 30.33 |
| 157 | LAD-007 | 30.3 |
| 158 | HCCA-018 | 30.29 |
| 159 | HOR-001 | 30.28 |
| 160 | FVE-007 | 30.27 |
| 161 | LAD-005 | 30.25 |
| 162 | EPS-005 | 30.19 |
| 163 | HOR-027 | 30.15 |
| 164 | EPS-012 | 30.12 |
| 165 | HCCA-009 | 30.07 |

RANKING DE ENVOLVENTES SEGÚN SU DIFERENCIAL DE TEMPERATURA

| NUMERO ORDEN | NOMBRE | DIFERENCIAL TEMPERATURA |
|---|---|---|
| 166 | ACE-001 | 29.86 |
| 167 | HOR-002 | 29.85 |
| 168 | BEN-001 | 29.63 |
| 169 | HOR-026 | 29.63 |
| 170 | MAD-001 | 29.56 |
| 171 | BIO-004 | 29.52 |
| 172 | LAD-004 | 29.47 |
| 173 | FVE-013 | 29.44 |
| 174 | BIO-007 | 29.43 |
| 175 | BIO-005 | 29.28 |
| 176 | BIO-001 | 29.22 |
| 177 | EPX-002 | 29.22 |
| 178 | LAD-003 | 29.21 |
| 179 | MAD-004 | 29.17 |
| 180 | BIO-009 | 29.13 |
| 181 | BEN-002 | 29.03 |
| 182 | LAD-001 | 29.03 |
| 183 | CER-003 | 28.91 |
| 184 | CER-002 | 28.87 |
| 185 | BIO-008 | 28.84 |
| 186 | EPX-001 | 28.82 |
| 187 | BIO-002 | 28.78 |
| 188 | LAD-002 | 28.43 |
| 189 | STL-016 | 28.17 |
| 190 | BLH-003 | 28.16 |
| 191 | STL-004 | 28.16 |
| 192 | BLH-002 | 28.01 |
| 193 | HOR-029 | 27.9 |
| 194 | HOR-028 | 27.5 |
| 195 | HOR-008 | 26.85 |
| 196 | MAD-002 | 26.4 |

# RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CALEFACCION

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE CALEFACCION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | DEMANDA CALEFACCION [kwh/m2/año] |
|---|---|---|
| 1 | FVE-014 | 26.4 |
| 2 | BIO-003 | 26.52 |
| 3 | STL-001 | 26.64 |
| 4 | FVE-018 | 27.13 |
| 5 | STL-065 | 27.48 |
| 6 | STL-067 | 27.52 |
| 7 | STL-063 | 27.73 |
| 8 | HCCA-007 | 28.18 |
| 9 | FVE-013 | 28.2 |
| 10 | STL-064 | 28.39 |
| 11 | BLH-004 | 28.44 |
| 12 | STL-059 | 28.44 |
| 13 | STL-066 | 28.46 |
| 14 | STL-053 | 28.54 |
| 15 | EPS-017 | 28.56 |
| 16 | FVE-017 | 28.62 |
| 17 | STL-062 | 28.64 |
| 18 | EPS-018 | 28.67 |
| 19 | HCCA-006 | 28.68 |
| 20 | STL-055 | 28.71 |
| 21 | STL-057 | 28.81 |
| 22 | HCCA-034 | 28.83 |
| 23 | PNV-004 | 28.84 |
| 24 | STL-051 | 28.86 |
| 25 | STL-061 | 28.89 |
| 26 | HCCA-025 | 28.95 |
| 27 | STL-023 | 29.02 |
| 28 | STL-011 | 29.03 |
| 29 | STL-013 | 29.03 |
| 30 | STL-025 | 29.03 |
| 31 | STL-029 | 29.06 |
| 32 | STL-031 | 29.06 |
| 33 | STL-041 | 29.07 |

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE CALEFACCION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | | DEMANDA CALEFACCION [kwh/m2/año] |
|---|---|---|---|
| 34 | | STL-043 | 29.09 |
| 35 | | FVE-006 | 29.21 |
| 36 | | BFR-003 | 29.25 |
| 37 | | EPS-016 | 29.27 |
| 38 | | EPS-011 | 29.3 |
| 39 | | HCCA-008 | 29.35 |
| 40 | | EPS-010 | 29.36 |
| 41 | | STL-021 | 29.37 |
| 42 | | EPS-004 | 29.38 |
| 43 | | HCCA-004 | 29.38 |
| 44 | | STL-009 | 29.38 |
| 45 | | EPS-003 | 29.43 |
| 46 | | STL-027 | 29.43 |
| 47 | | STL-039 | 29.43 |
| 48 | | HCCA-033 | 29.44 |
| 49 | | FVE-005 | 29.44 |
| 50 | | HCCA-024 | 29.58 |
| 51 | | HCCA-016 | 29.63 |
| 52 | | STL-047 | 29.67 |
| 53 | | STL-054 | 29.67 |
| 54 | | STL-050 | 29.72 |
| 55 | | STL-052 | 29.72 |
| 56 | | EPS-025 | 29.75 |
| 57 | | STL-058 | 29.81 |
| 58 | | FVE-010 | 29.9 |
| 59 | | EPS-021 | 29.93 |
| 60 | | EPS-009 | 29.96 |
| 61 | | BIO-006 | 29.98 |
| 62 | | HCCA-035 | 29.98 |
| 63 | | STL-060 | 30.01 |
| 64 | | LAD-008 | 30.08 |
| 65 | | EPS-002 | 30.08 |
| 66 | | STL-024 | 30.08 |

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE CALEFACCION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | DEMANDA CALEFACCION [kwh/m2/año] |
|---|---|---|
| 67 | HCCA-026 | 30.09 |
| 68 | STL-012 | 30.09 |
| 69 | CER-001 | 30.12 |
| 70 | HCCA-031 | 30.15 |
| 71 | STL-030 | 30.15 |
| 72 | STL-045 | 30.15 |
| 73 | STL-049 | 30.15 |
| 74 | FVE-016 | 30.18 |
| 75 | STL-042 | 30.19 |
| 76 | HCCA-003 | 30.22 |
| 77 | MAD-003 | 30.24 |
| 78 | FVE-012 | 30.24 |
| 79 | STL-022 | 30.27 |
| 80 | HCCA-022 | 30.28 |
| 81 | STL-010 | 30.28 |
| 82 | STL-028 | 30.35 |
| 83 | STL-040 | 30.37 |
| 84 | HCCA-015 | 30.39 |
| 85 | LAD-006 | 30.51 |
| 86 | STL-035 | 30.54 |
| 87 | EPS-015 | 30.68 |
| 88 | HCCA-005 | 30.68 |
| 89 | STL-026 | 30.72 |
| 90 | HCCA-017 | 30.74 |
| 91 | STL-038 | 30.74 |
| 92 | EPS-014 | 30.75 |
| 93 | STL-056 | 30.79 |
| 94 | PNV-003 | 30.89 |
| 95 | STL-037 | 30.95 |
| 96 | EPS-007 | 30.98 |
| 97 | FVE-004 | 31.01 |
| 98 | HCCA-030 | 31.04 |
| 99 | HCCA-013 | 31.07 |

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE CALEFACCION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | | DEMANDA CALEFACCION [kwh/m2/año] |
|---|---|---|---|
| 100 | | STL-033 | 31.08 |
| 101 | | BFR-001 | 31.1 |
| 102 | | HCCA-021 | 31.21 |
| 103 | | EPS-020 | 31.36 |
| 104 | | HCCA-032 | 31.47 |
| 105 | | STL-046 | 31.47 |
| 106 | | HCCA-023 | 31.55 |
| 107 | | FVE-001 | 31.55 |
| 108 | | BFR-002 | 31.61 |
| 109 | | EPS-008 | 31.65 |
| 110 | | FVE-015 | 31.8 |
| 111 | | HOR-003 | 31.9 |
| 112 | | HOR-004 | 31.9 |
| 113 | | EPS-001 | 31.94 |
| 114 | | STL-044 | 32.02 |
| 115 | | HCCA-012 | 32.18 |
| 116 | | HCCA-028 | 32.18 |
| 117 | | HCCA-019 | 32.34 |
| 118 | | HCCA-014 | 32.36 |
| 119 | | STL-048 | 32.43 |
| 120 | | EPS-013 | 32.51 |
| 121 | | FVE-011 | 32.58 |
| 122 | | STL-036 | 32.68 |
| 123 | | FVE-009 | 32.69 |
| 124 | | STL-005 | 32.76 |
| 125 | | STL-017 | 32.76 |
| 126 | | FVE-003 | 32.81 |
| 127 | | STL-008 | 32.83 |
| 128 | | STL-020 | 32.83 |
| 129 | | EPS-006 | 32.89 |
| 130 | | FVE-002 | 32.89 |
| 131 | | STL-019 | 32.95 |
| 132 | | STL-007 | 32.96 |
| 133 | | STL-032 | 33.17 |

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE CALEFACCION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | | DEMANDA CALEFACCION [kwh/m2/año] |
|---|---|---|---|
| 134 | | HCCA-001 | 33.22 |
| 135 | | HCCA-002 | 33.23 |
| 136 | | BLH-001 | 33.25 |
| 137 | | HCCA-010 | 33.27 |
| 138 | | STL-034 | 33.31 |
| 139 | | EPS-019 | 33.35 |
| 140 | | STL-003 | 33.37 |
| 141 | | STL-015 | 33.37 |
| 142 | | HCCA-027 | 33.71 |
| 143 | | HOR-001 | 33.9 |
| 144 | | HCCA-018 | 33.91 |
| 145 | | HCCA-029 | 34.25 |
| 146 | | HCCA-020 | 34.36 |
| 147 | | LAD-005 | 34.85 |
| 148 | | STL-018 | 34.97 |
| 149 | | STL-006 | 34.98 |
| 150 | | HCCA-009 | 35.14 |
| 151 | | EPS-012 | 35.15 |
| 152 | | HCCA-011 | 35.28 |
| 153 | | STL-014 | 35.68 |
| 154 | | STL-002 | 35.69 |
| 155 | | EPS-005 | 35.86 |
| 156 | | FVE-008 | 35.92 |
| 157 | | MAD-001 | 36.03 |
| 158 | | HOR-002 | 36.22 |
| 159 | | HOR-027 | 37.07 |
| 160 | | ACE-002 | 37.18 |
| 161 | | BIO-004 | 37.32 |
| 162 | | EPS-026 | 37.54 |
| 163 | | LAD-007 | 37.6 |
| 164 | | BIO-007 | 38.5 |
| 165 | | BIO-009 | 38.68 |

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE CALEFACCION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | DEMANDA CALEFACCION [kwh/m2/año] |
|---|---|---|
| 166 | FVE-007 | 39.75 |
| 167 | BIO-008 | 40.12 |
| 168 | LAD-004 | 40.14 |
| 169 | HOR-026 | 40.22 |
| 170 | BIO-001 | 40.26 |
| 171 | BEN-002 | 40.32 |
| 172 | EPX-002 | 40.47 |
| 173 | BIO-005 | 40.92 |
| 174 | LAD-003 | 42.93 |
| 175 | ACE-001 | 43.68 |
| 176 | CER-003 | 43.71 |
| 177 | EPX-001 | 46.99 |
| 178 | CER-002 | 48.11 |
| 179 | BLH-003 | 48.33 |
| 180 | MAD-004 | 48.84 |
| 181 | BLH-002 | 51.21 |
| 182 | LAD-002 | 52.05 |
| 183 | VID-005 | 53.23 |
| 184 | MAD-002 | 53.68 |
| 185 | HOR-029 | 54.01 |
| 186 | BEN-001 | 55.3 |
| 187 | VID-004 | 58 |
| 188 | BIO-002 | 58.82 |
| 189 | HOR-028 | 64.43 |
| 190 | LAD-001 | 72.59 |
| 191 | STL-016 | 75.82 |
| 192 | STL-004 | 76.14 |
| 193 | HOR-008 | 102.07 |
| 194 | VID-003 | 105.66 |
| 195 | VID-002 | 106.02 |
| 196 | VID-001 | 106.37 |

# RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN REFRIGERACION

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE REFRIGERACION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | DEMANDA REFRIGERACION [kwh/m2/año] |
|---|---|---|
| 1 | LAD-008 | 0.63 |
| 2 | FVE-014 | 0.71 |
| 3 | MAD-001 | 0.76 |
| 4 | FVE-013 | 0.79 |
| 5 | STL-001 | 0.82 |
| 6 | FVE-006 | 0.86 |
| 7 | HCCA-006 | 0.88 |
| 8 | HCCA-007 | 0.88 |
| 9 | FVE-012 | 0.88 |
| 10 | HCCA-024 | 0.9 |
| 11 | HCCA-025 | 0.9 |
| 12 | HCCA-033 | 0.9 |
| 13 | HCCA-034 | 0.9 |
| 14 | HCCA-004 | 0.91 |
| 15 | CER-001 | 0.92 |
| 16 | HCCA-016 | 0.92 |
| 17 | FVE-005 | 0.92 |
| 18 | HCCA-015 | 0.93 |
| 19 | HCCA-031 | 0.93 |
| 20 | HCCA-003 | 0.94 |
| 21 | HCCA-022 | 0.94 |
| 22 | HCCA-021 | 0.95 |
| 23 | HCCA-030 | 0.95 |
| 24 | HCCA-013 | 0.96 |
| 25 | BLH-001 | 0.97 |
| 26 | HCCA-012 | 0.99 |
| 27 | HCCA-028 | 1.01 |
| 28 | FVE-011 | 1.01 |
| 29 | LAD-006 | 1.02 |
| 30 | HCCA-019 | 1.02 |
| 31 | HCCA-001 | 1.04 |
| 32 | HCCA-010 | 1.06 |
| 33 | MAD-002 | 1.06 |

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE REFRIGERACION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | DEMANDA REFRIGERACION [kwh/m2/año] |
|---|---|---|
| 34 | BFR-003 | 1.06 |
| 35 | BFR-001 | 1.07 |
| 36 | BIO-006 | 1.1 |
| 37 | EPS-018 | 1.1 |
| 38 | EPS-004 | 1.11 |
| 39 | EPS-016 | 1.11 |
| 40 | EPS-017 | 1.11 |
| 41 | EPS-003 | 1.12 |
| 42 | EPS-007 | 1.12 |
| 43 | EPS-026 | 1.12 |
| 44 | HCCA-018 | 1.12 |
| 45 | HCCA-027 | 1.12 |
| 46 | EPS-002 | 1.13 |
| 47 | EPS-021 | 1.13 |
| 48 | BIO-004 | 1.15 |
| 49 | EPS-015 | 1.15 |
| 50 | STL-067 | 1.16 |
| 51 | EPS-001 | 1.17 |
| 52 | EPS-020 | 1.17 |
| 53 | BLH-004 | 1.18 |
| 54 | EPS-014 | 1.18 |
| 55 | EPS-011 | 1.19 |
| 56 | PNV-003 | 1.19 |
| 57 | EPS-010 | 1.2 |
| 58 | HCCA-009 | 1.2 |
| 59 | HOR-001 | 1.21 |
| 60 | HOR-003 | 1.21 |
| 61 | HOR-004 | 1.21 |
| 62 | EPS-006 | 1.21 |
| 63 | EPS-009 | 1.21 |
| 64 | BFR-002 | 1.22 |
| 65 | STL-066 | 1.22 |
| 66 | BIO-008 | 1.23 |

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE REFRIGERACION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | | DEMANDA REFRIGERACION [kwh/m2/año] |
|---|---|---|---|
| 67 | | STL-055 | 1.23 |
| 68 | | BIO-003 | 1.24 |
| 69 | | EPS-008 | 1.24 |
| 70 | | BIO-009 | 1.25 |
| 71 | | EPS-019 | 1.25 |
| 72 | | FVE-018 | 1.25 |
| 73 | | STL-061 | 1.25 |
| 74 | | STL-065 | 1.25 |
| 75 | | LAD-005 | 1.26 |
| 76 | | STL-063 | 1.26 |
| 77 | | EPS-013 | 1.27 |
| 78 | | STL-064 | 1.3 |
| 79 | | STL-062 | 1.31 |
| 80 | | STL-049 | 1.33 |
| 81 | | STL-054 | 1.33 |
| 82 | | STL-059 | 1.35 |
| 83 | | STL-060 | 1.35 |
| 84 | | FVE-017 | 1.37 |
| 85 | | STL-057 | 1.37 |
| 86 | | STL-013 | 1.38 |
| 87 | | STL-025 | 1.38 |
| 88 | | STL-043 | 1.38 |
| 89 | | STL-053 | 1.38 |
| 90 | | MAD-003 | 1.39 |
| 91 | | STL-051 | 1.4 |
| 92 | | STL-031 | 1.41 |
| 93 | | HOR-002 | 1.42 |
| 94 | | EPS-005 | 1.43 |
| 95 | | EPS-012 | 1.44 |
| 96 | | STL-058 | 1.44 |
| 97 | | STL-047 | 1.46 |
| 98 | | STL-050 | 1.47 |
| 99 | | STL-052 | 1.47 |

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE REFRIGERACION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | DEMANDA REFRIGERACION [kwh/m2/año] |
|---|---|---|
| 100 | BIO-007 | 1.49 |
| 101 | HCCA-017 | 1.49 |
| 102 | HCCA-026 | 1.49 |
| 103 | HCCA-008 | 1.5 |
| 104 | HCCA-035 | 1.5 |
| 105 | STL-045 | 1.5 |
| 106 | STL-056 | 1.5 |
| 107 | FVE-016 | 1.51 |
| 108 | STL-012 | 1.52 |
| 109 | STL-024 | 1.52 |
| 110 | STL-042 | 1.53 |
| 111 | STL-030 | 1.56 |
| 112 | HCCA-023 | 1.57 |
| 113 | STL-011 | 1.57 |
| 114 | STL-023 | 1.57 |
| 115 | STL-041 | 1.57 |
| 116 | BEN-002 | 1.58 |
| 117 | HCCA-005 | 1.58 |
| 118 | STL-048 | 1.58 |
| 119 | EPS-025 | 1.59 |
| 120 | HCCA-014 | 1.59 |
| 121 | HCCA-032 | 1.59 |
| 122 | FVE-004 | 1.59 |
| 123 | STL-009 | 1.6 |
| 124 | STL-021 | 1.6 |
| 125 | STL-029 | 1.6 |
| 126 | STL-039 | 1.61 |
| 127 | STL-046 | 1.62 |
| 128 | STL-027 | 1.64 |
| 129 | STL-037 | 1.66 |
| 130 | EPX-002 | 1.67 |
| 131 | STL-044 | 1.67 |
| 132 | BIO-001 | 1.68 |
| 133 | PNV-004 | 1.68 |

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE REFRIGERACION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | DEMANDA REFRIGERACION [kwh/m2/año] |
|---|---|---|
| 134 | FVE-015 | 1.69 |
| 135 | STL-010 | 1.7 |
| 136 | STL-022 | 1.7 |
| 137 | STL-040 | 1.71 |
| 138 | FVE-001 | 1.74 |
| 139 | STL-028 | 1.74 |
| 140 | STL-038 | 1.76 |
| 141 | STL-026 | 1.79 |
| 142 | STL-035 | 1.8 |
| 143 | FVE-003 | 1.83 |
| 144 | STL-033 | 1.87 |
| 145 | LAD-004 | 1.92 |
| 146 | HCCA-002 | 1.93 |
| 147 | STL-036 | 1.95 |
| 148 | HCCA-020 | 1.99 |
| 149 | HCCA-029 | 2.02 |
| 150 | HCCA-011 | 2.04 |
| 151 | FVE-002 | 2.08 |
| 152 | BIO-005 | 2.12 |
| 153 | STL-032 | 2.18 |
| 154 | FVE-010 | 2.2 |
| 155 | STL-034 | 2.2 |
| 156 | BLH-003 | 2.26 |
| 157 | CER-003 | 2.32 |
| 158 | LAD-003 | 2.45 |
| 159 | HOR-027 | 2.64 |
| 160 | FVE-009 | 2.7 |
| 161 | STL-007 | 2.82 |
| 162 | STL-019 | 2.82 |
| 163 | STL-008 | 2.95 |
| 164 | STL-020 | 2.95 |
| 165 | STL-005 | 3 |

RANKING DE ENVOLVENTES SEGÚN SU DEMANDA EN CICLO DE REFRIGERACION (kwh/m2año )

| NUMERO ORDEN | NOMBRE | DEMANDA REFRIGERACION [kwh/m2/año] |
|---|---|---|
| 166 | STL-017 | 3 |
| 167 | BLH-002 | 3.04 |
| 168 | LAD-007 | 3.09 |
| 169 | HOR-026 | 3.1 |
| 170 | STL-003 | 3.12 |
| 171 | STL-015 | 3.12 |
| 172 | STL-006 | 3.33 |
| 173 | STL-018 | 3.33 |
| 174 | EPX-001 | 3.35 |
| 175 | FVE-008 | 3.46 |
| 176 | STL-002 | 3.66 |
| 177 | STL-014 | 3.66 |
| 178 | CER-002 | 4.13 |
| 179 | ACE-002 | 4.21 |
| 180 | LAD-002 | 4.4 |
| 181 | FVE-007 | 4.67 |
| 182 | HOR-029 | 4.98 |
| 183 | BEN-001 | 6.07 |
| 184 | ACE-001 | 6.65 |
| 185 | MAD-004 | 7.39 |
| 186 | BIO-002 | 8.68 |
| 187 | HOR-028 | 9.85 |
| 188 | LAD-001 | 15.74 |
| 189 | STL-016 | 24.65 |
| 190 | STL-004 | 24.83 |
| 191 | HOR-008 | 26.02 |
| 192 | VID-001 | 49.59 |
| 193 | VID-002 | 49.63 |
| 194 | VID-003 | 49.75 |
| 195 | VID-004 | 65.65 |
| 196 | VID-005 | 67.42 |

# RANKING DE ENVOLVENTES SEGÚN SU DISCONFORT EN CICLO DE CALEFACCION

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE CALEFACCION

| NUMERO ORDEN | NOMBRE | HS DISCONFORT CALEFACCION [hs] |
|---|---|---|
| 1 | LAD-001 | 1971 |
| 2 | VID-005 | 3303 |
| 3 | VID-004 | 3427 |
| 4 | VID-003 | 4325 |
| 5 | VID-001 | 4333 |
| 6 | VID-002 | 4333 |
| 7 | BIO-004 | 4398 |
| 8 | BIO-007 | 4398 |
| 9 | BLH-001 | 4398 |
| 10 | FVE-013 | 4398 |
| 11 | STL-001 | 4414 |
| 12 | BEN-002 | 4430 |
| 13 | BIO-001 | 4432 |
| 14 | EPX-002 | 4442 |
| 15 | LAD-004 | 4448 |
| 16 | LAD-005 | 4452 |
| 17 | HCCA-001 | 4453 |
| 18 | HCCA-010 | 4458 |
| 19 | HCCA-019 | 4464 |
| 20 | CER-001 | 4465 |
| 21 | BIO-005 | 4466 |
| 22 | BLH-003 | 4468 |
| 23 | HCCA-012 | 4469 |
| 24 | LAD-003 | 4470 |
| 25 | HCCA-009 | 4470 |
| 26 | HCCA-028 | 4470 |
| 27 | EPS-005 | 4472 |
| 28 | EPS-012 | 4472 |
| 29 | HCCA-013 | 4472 |
| 30 | LAD-006 | 4475 |
| 31 | BLH-002 | 4481 |
| 32 | BIO-009 | 4482 |
| 33 | FVE-011 | 4482 |

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE CALEFACCION

| NUMERO ORDEN | NOMBRE | HS DISCONFORT CALEFACCION [hs] |
|---|---|---|
| 34 | HCCA-021 | 4483 |
| 35 | EPS-019 | 4485 |
| 36 | BIO-008 | 4487 |
| 37 | EPS-006 | 4487 |
| 38 | HCCA-022 | 4487 |
| 39 | HCCA-023 | 4487 |
| 40 | MAD-001 | 4487 |
| 41 | EPS-015 | 4488 |
| 42 | HCCA-018 | 4488 |
| 43 | LAD-002 | 4489 |
| 44 | EPS-013 | 4489 |
| 45 | EPX-001 | 4489 |
| 46 | HCCA-027 | 4490 |
| 47 | HCCA-030 | 4490 |
| 48 | HCCA-031 | 4490 |
| 49 | EPS-001 | 4492 |
| 50 | PNV-003 | 4493 |
| 51 | EPS-014 | 4497 |
| 52 | HCCA-015 | 4498 |
| 53 | FVE-012 | 4498 |
| 54 | CER-003 | 4499 |
| 55 | EPS-007 | 4499 |
| 56 | HCCA-004 | 4502 |
| 57 | HCCA-016 | 4503 |
| 58 | BIO-006 | 4504 |
| 59 | EPS-008 | 4504 |
| 60 | FVE-005 | 4505 |
| 61 | EPS-020 | 4506 |
| 62 | HCCA-003 | 4508 |
| 63 | BEN-001 | 4510 |
| 64 | HCCA-024 | 4511 |
| 65 | LAD-007 | 4512 |
| 66 | HCCA-014 | 4512 |

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE CALEFACCION

| NUMERO ORDEN | NOMBRE | HS DISCONFORT CALEFACCION [hs] |
|---|---|---|
| 67 | BFR-003 | 4512 |
| 68 | STL-056 | 4513 |
| 69 | BIO-002 | 4514 |
| 70 | EPS-021 | 4514 |
| 71 | HCCA-033 | 4515 |
| 72 | MAD-003 | 4516 |
| 73 | BFR-002 | 4517 |
| 74 | CER-002 | 4519 |
| 75 | HCCA-025 | 4519 |
| 76 | FVE-006 | 4519 |
| 77 | HOR-003 | 4520 |
| 78 | HOR-004 | 4520 |
| 79 | STL-060 | 4521 |
| 80 | HCCA-034 | 4522 |
| 81 | HCCA-006 | 4525 |
| 82 | HCCA-032 | 4526 |
| 83 | EPS-009 | 4527 |
| 84 | STL-058 | 4529 |
| 85 | HCCA-017 | 4530 |
| 86 | EPS-011 | 4533 |
| 87 | MAD-004 | 4533 |
| 88 | HCCA-007 | 4534 |
| 89 | EPS-003 | 4535 |
| 90 | EPS-004 | 4535 |
| 91 | HCCA-011 | 4536 |
| 92 | EPS-002 | 4537 |
| 93 | EPS-010 | 4537 |
| 94 | EPS-016 | 4543 |
| 95 | HCCA-005 | 4544 |
| 96 | HCCA-020 | 4544 |
| 97 | HCCA-029 | 4544 |
| 98 | PNV-004 | 4545 |
| 99 | STL-061 | 4545 |

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE CALEFACCION

| NUMERO ORDEN | NOMBRE | HS DISCONFORT CALEFACCION [hs] |
|---|---|---|
| 100 | HCCA-026 | 4546 |
| 101 | HCCA-002 | 4548 |
| 102 | HCCA-035 | 4550 |
| 103 | FVE-014 | 4550 |
| 104 | STL-057 | 4550 |
| 105 | STL-062 | 4550 |
| 106 | EPS-018 | 4554 |
| 107 | EPS-017 | 4555 |
| 108 | HOR-001 | 4557 |
| 109 | HOR-002 | 4557 |
| 110 | FVE-007 | 4557 |
| 111 | FVE-015 | 4557 |
| 112 | STL-066 | 4557 |
| 113 | STL-064 | 4558 |
| 114 | FVE-002 | 4559 |
| 115 | STL-059 | 4559 |
| 116 | BLH-004 | 4560 |
| 117 | BFR-001 | 4563 |
| 118 | FVE-016 | 4567 |
| 119 | FVE-001 | 4568 |
| 120 | LAD-008 | 4569 |
| 121 | FVE-004 | 4569 |
| 122 | HCCA-008 | 4570 |
| 123 | EPS-026 | 4572 |
| 124 | STL-030 | 4572 |
| 125 | ACE-001 | 4574 |
| 126 | ACE-002 | 4575 |
| 127 | STL-031 | 4576 |
| 128 | FVE-017 | 4577 |
| 129 | STL-012 | 4577 |
| 130 | STL-036 | 4577 |
| 131 | STL-024 | 4578 |
| 132 | STL-067 | 4578 |
| 133 | STL-063 | 4579 |

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE CALEFACCION

| NUMERO ORDEN | NOMBRE | | HS DISCONFORT CALEFACCION [hs] |
|---|---|---|---|
| 134 | | STL-042 | 4580 |
| 135 | | HOR-026 | 4582 |
| 136 | | FVE-008 | 4582 |
| 137 | | STL-026 | 4582 |
| 138 | | HOR-027 | 4583 |
| 139 | | STL-028 | 4584 |
| 140 | | STL-065 | 4585 |
| 141 | | STL-013 | 4586 |
| 142 | | STL-025 | 4586 |
| 143 | | STL-043 | 4588 |
| 144 | | STL-034 | 4590 |
| 145 | | STL-037 | 4590 |
| 146 | | STL-032 | 4591 |
| 147 | | STL-038 | 4593 |
| 148 | | STL-027 | 4594 |
| 149 | | STL-022 | 4595 |
| 150 | | STL-010 | 4596 |
| 151 | | STL-040 | 4596 |
| 152 | | STL-014 | 4598 |
| 153 | | EPS-025 | 4599 |
| 154 | | MAD-002 | 4599 |
| 155 | | STL-002 | 4599 |
| 156 | | STL-029 | 4600 |
| 157 | | FVE-009 | 4602 |
| 158 | | STL-021 | 4603 |
| 159 | | STL-033 | 4603 |
| 160 | | STL-009 | 4604 |
| 161 | | STL-018 | 4604 |
| 162 | | STL-054 | 4604 |
| 163 | | STL-039 | 4605 |
| 164 | | STL-006 | 4606 |
| 165 | | STL-019 | 4608 |

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE CALEFACCION

| NUMERO ORDEN | NOMBRE | HS DISCONFORT CALEFACCION [hs] |
|---|---|---|
| 166 | STL-035 | 4608 |
| 167 | STL-011 | 4609 |
| 168 | STL-023 | 4609 |
| 169 | STL-041 | 4609 |
| 170 | FVE-018 | 4610 |
| 171 | STL-007 | 4610 |
| 172 | STL-003 | 4612 |
| 173 | STL-015 | 4612 |
| 174 | BIO-003 | 4614 |
| 175 | FVE-003 | 4616 |
| 176 | STL-050 | 4616 |
| 177 | STL-052 | 4616 |
| 178 | STL-008 | 4618 |
| 179 | STL-020 | 4618 |
| 180 | STL-005 | 4621 |
| 181 | STL-017 | 4621 |
| 182 | STL-051 | 4621 |
| 183 | STL-055 | 4622 |
| 184 | STL-053 | 4626 |
| 185 | HOR-029 | 4627 |
| 186 | STL-048 | 4629 |
| 187 | STL-046 | 4630 |
| 188 | FVE-010 | 4631 |
| 189 | STL-049 | 4633 |
| 190 | STL-044 | 4635 |
| 191 | HOR-028 | 4642 |
| 192 | STL-045 | 4645 |
| 193 | STL-047 | 4645 |
| 194 | HOR-008 | 4655 |
| 195 | STL-016 | 4671 |
| 196 | STL-004 | 4672 |

# RANKING DE ENVOLVENTES SEGÚN SU DISCONFORT EN CICLO DE REFRIGERACION

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE REFRIGERACION

| NUMERO ORDEN | NOMBRE | HS DISCONFORT REFRIGERACION [hs] |
|---|---|---|
| 1 | LAD-008 | 104 |
| 2 | FVE-014 | 113 |
| 3 | MAD-001 | 119 |
| 4 | STL-001 | 126 |
| 5 | FVE-006 | 133 |
| 6 | HCCA-007 | 134 |
| 7 | HCCA-006 | 135 |
| 8 | HCCA-034 | 136 |
| 9 | HCCA-024 | 137 |
| 10 | HCCA-025 | 137 |
| 11 | HCCA-033 | 137 |
| 12 | FVE-005 | 137 |
| 13 | FVE-012 | 137 |
| 14 | HCCA-004 | 139 |
| 15 | HCCA-016 | 139 |
| 16 | CER-001 | 142 |
| 17 | HCCA-015 | 142 |
| 18 | HCCA-031 | 144 |
| 19 | HCCA-003 | 145 |
| 20 | HCCA-022 | 145 |
| 21 | HCCA-023 | 145 |
| 22 | HCCA-030 | 149 |
| 23 | HCCA-013 | 150 |
| 24 | HCCA-021 | 151 |
| 25 | BFR-003 | 153 |
| 26 | BIO-006 | 154 |
| 27 | LAD-006 | 155 |
| 28 | BLH-001 | 155 |
| 29 | BFR-001 | 155 |
| 30 | HCCA-012 | 156 |
| 31 | FVE-011 | 157 |
| 32 | EPS-004 | 158 |
| 33 | EPS-003 | 159 |

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE REFRIGERACION

| NUMERO ORDEN | NOMBRE | HS DISCONFORT REFRIGERACION [hs] |
|---|---|---|
| 34 | EPS-007 | 162 |
| 35 | HCCA-028 | 165 |
| 36 | EPS-011 | 166 |
| 37 | HCCA-019 | 166 |
| 38 | STL-067 | 166 |
| 39 | BIO-003 | 168 |
| 40 | EPS-010 | 168 |
| 41 | EPS-014 | 168 |
| 42 | PNV-003 | 168 |
| 43 | BLH-004 | 169 |
| 44 | EPS-009 | 170 |
| 45 | HCCA-001 | 170 |
| 46 | HOR-003 | 171 |
| 47 | HOR-004 | 171 |
| 48 | EPS-002 | 171 |
| 49 | STL-055 | 171 |
| 50 | STL-066 | 171 |
| 51 | FVE-018 | 172 |
| 52 | STL-065 | 172 |
| 53 | EPS-001 | 174 |
| 54 | STL-063 | 174 |
| 55 | STL-061 | 176 |
| 56 | BIO-004 | 177 |
| 57 | MAD-003 | 178 |
| 58 | BFR-002 | 179 |
| 59 | STL-064 | 179 |
| 60 | EPS-008 | 181 |
| 61 | STL-062 | 181 |
| 62 | HCCA-010 | 183 |
| 63 | FVE-017 | 184 |
| 64 | STL-054 | 184 |
| 65 | STL-059 | 184 |
| 66 | EPS-006 | 186 |

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE REFRIGERACION

| NUMERO ORDEN | NOMBRE | HS DISCONFORT REFRIGERACION [hs] |
|---|---|---|
| 67 | STL-053 | 186 |
| 68 | EPS-013 | 188 |
| 69 | STL-051 | 188 |
| 70 | STL-057 | 188 |
| 71 | STL-013 | 189 |
| 72 | STL-025 | 189 |
| 73 | STL-043 | 189 |
| 74 | STL-060 | 189 |
| 75 | EPS-017 | 190 |
| 76 | HCCA-008 | 190 |
| 77 | EPS-018 | 191 |
| 78 | STL-031 | 191 |
| 79 | EPS-021 | 192 |
| 80 | HCCA-017 | 192 |
| 81 | HCCA-026 | 192 |
| 82 | EPS-016 | 193 |
| 83 | HCCA-035 | 193 |
| 84 | STL-050 | 194 |
| 85 | STL-052 | 194 |
| 86 | HOR-001 | 196 |
| 87 | HCCA-005 | 197 |
| 88 | HCCA-027 | 198 |
| 89 | EPS-015 | 199 |
| 90 | STL-058 | 199 |
| 91 | EPS-020 | 200 |
| 92 | HCCA-032 | 202 |
| 93 | FVE-016 | 202 |
| 94 | HCCA-018 | 203 |
| 95 | STL-011 | 203 |
| 96 | STL-023 | 203 |
| 97 | PNV-004 | 204 |
| 98 | STL-041 | 204 |
| 99 | BIO-009 | 205 |

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE REFRIGERACION

| NUMERO ORDEN | NOMBRE | | HS DISCONFORT REFRIGERACION [hs] |
|---|---|---|---|
| 100 | | STL-012 | 205 |
| 101 | | STL-024 | 205 |
| 102 | | EPS-025 | 206 |
| 103 | | HCCA-014 | 207 |
| 104 | | STL-029 | 207 |
| 105 | | STL-042 | 207 |
| 106 | | STL-009 | 208 |
| 107 | | STL-021 | 208 |
| 108 | | STL-039 | 208 |
| 109 | | STL-056 | 209 |
| 110 | | STL-030 | 210 |
| 111 | | STL-027 | 211 |
| 112 | | FVE-004 | 218 |
| 113 | | STL-010 | 220 |
| 114 | | STL-022 | 220 |
| 115 | | STL-037 | 222 |
| 116 | | STL-040 | 222 |
| 117 | | STL-028 | 225 |
| 118 | | STL-038 | 227 |
| 119 | | STL-035 | 229 |
| 120 | | BIO-008 | 232 |
| 121 | | FVE-015 | 232 |
| 122 | | STL-026 | 232 |
| 123 | | HCCA-009 | 234 |
| 124 | | FVE-001 | 234 |
| 125 | | EPS-019 | 235 |
| 126 | | MAD-002 | 238 |
| 127 | | LAD-005 | 239 |
| 128 | | STL-033 | 241 |
| 129 | | FVE-003 | 249 |
| 130 | | HOR-002 | 253 |
| 131 | | EPS-012 | 256 |
| 132 | | HCCA-002 | 257 |
| 133 | | FVE-010 | 257 |

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE REFRIGERACION

| NUMERO ORDEN | NOMBRE | | HS DISCONFORT REFRIGERACION [hs] |
|---|---|---|---|
| 134 | | STL-049 | 261 |
| 135 | | STL-036 | 268 |
| 136 | | STL-047 | 274 |
| 137 | | EPS-005 | 275 |
| 138 | | FVE-002 | 284 |
| 139 | | STL-045 | 284 |
| 140 | | HCCA-020 | 290 |
| 141 | | STL-032 | 290 |
| 142 | | HCCA-029 | 291 |
| 143 | | STL-034 | 294 |
| 144 | | EPS-026 | 301 |
| 145 | | BIO-007 | 313 |
| 146 | | FVE-013 | 313 |
| 147 | | STL-046 | 318 |
| 148 | | HCCA-011 | 319 |
| 149 | | FVE-009 | 325 |
| 150 | | STL-019 | 329 |
| 151 | | STL-007 | 330 |
| 152 | | STL-044 | 330 |
| 153 | | STL-048 | 331 |
| 154 | | STL-008 | 342 |
| 155 | | STL-020 | 342 |
| 156 | | STL-005 | 346 |
| 157 | | STL-017 | 346 |
| 158 | | HOR-027 | 362 |
| 159 | | STL-003 | 365 |
| 160 | | STL-015 | 365 |
| 161 | | BEN-002 | 369 |
| 162 | | BIO-001 | 386 |
| 163 | | EPX-002 | 410 |
| 164 | | STL-006 | 418 |
| 165 | | STL-018 | 418 |

RANKING DE ENVOLVENTES SEGUN SUS Hs DISCONFORT EN CICLO DE REFRIGERACION

| NUMERO ORDEN | NOMBRE | HS DISCONFORT REFRIGERACION [hs] |
|---|---|---|
| 166 | LAD-004 | 446 |
| 167 | FVE-008 | 449 |
| 168 | LAD-007 | 451 |
| 169 | HOR-026 | 453 |
| 170 | STL-002 | 464 |
| 171 | STL-014 | 465 |
| 172 | BIO-005 | 472 |
| 173 | BLH-003 | 534 |
| 174 | CER-003 | 536 |
| 175 | LAD-003 | 549 |
| 176 | ACE-002 | 554 |
| 177 | FVE-007 | 612 |
| 178 | LAD-001 | 674 |
| 179 | BLH-002 | 677 |
| 180 | EPX-001 | 685 |
| 181 | CER-002 | 748 |
| 182 | ACE-001 | 812 |
| 183 | LAD-002 | 827 |
| 184 | HOR-029 | 828 |
| 185 | MAD-004 | 899 |
| 186 | BEN-001 | 976 |
| 187 | BIO-002 | 1114 |
| 188 | HOR-028 | 1117 |
| 189 | STL-016 | 1485 |
| 190 | STL-004 | 1488 |
| 191 | HOR-008 | 1576 |
| 192 | VID-002 | 2192 |
| 193 | VID-001 | 2193 |
| 194 | VID-003 | 2196 |
| 195 | VID-004 | 2827 |
| 196 | VID-005 | 2931 |