



TEST REPORT

Informe de prueba

Número No. : GZIN170902787CCM-01
 Fecha Date : Nov. 30, 2017
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| Time Tiempo (min) | Thermocouples / Temperatures Termopares/temperaturas | | | | | | | | |
|-------------------------|---|------|------|------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 164 | 75.9 | 85.3 | 74.9 | 77.3 | 73.6 | 77.3 | 54.3 | 70.0 | 53.3 |
| 165 | 76.3 | 85.8 | 75.5 | 77.7 | 73.8 | 78.0 | 56.4 | 70.3 | 54.2 |
| 166 | 77.0 | 86.4 | 76.2 | 78.3 | 74.4 | 78.4 | 55.0 | 71.1 | 54.8 |
| 167 | 77.8 | 86.9 | 76.6 | 78.7 | 75.1 | 78.7 | 56.1 | 71.9 | 54.7 |
| 168 | 78.1 | 87.5 | 77.4 | 79.3 | 75.9 | 79.1 | 55.5 | 72.5 | 54.7 |
| 169 | 78.7 | 87.9 | 77.8 | 79.7 | 76.4 | 79.5 | 55.7 | 73.0 | 55.7 |
| 170 | 79.0 | 88.4 | 78.1 | 80.2 | 77.0 | 80.0 | 56.7 | 73.5 | 55.6 |
| 171 | 79.1 | 88.7 | 78.3 | 80.7 | 77.4 | 80.6 | 56.4 | 73.7 | 56.7 |
| 172 | 79.7 | 89.0 | 78.9 | 81.4 | 77.9 | 81.0 | 56.4 | 74.4 | 56.4 |
| 173 | 79.7 | 89.5 | 79.0 | 81.6 | 78.0 | 81.3 | 57.2 | 74.4 | 56.9 |
| 174 | 80.4 | 90.0 | 79.4 | 82.1 | 78.6 | 81.8 | 57.9 | 75.2 | 58.0 |
| 175 | 80.8 | 90.5 | 80.0 | 82.5 | 79.1 | 82.4 | 57.9 | 75.6 | 58.2 |
| 176 | 80.9 | 90.7 | 80.4 | 83.0 | 79.5 | 82.8 | 58.0 | 76.3 | 58.5 |
| 177 | 81.3 | 91.0 | 80.7 | 83.2 | 80.0 | 83.1 | 56.1 | 76.5 | 57.2 |
| 178 | 81.9 | 91.4 | 81.2 | 83.7 | 80.5 | 83.6 | 57.3 | 76.9 | 58.2 |
| 179 | 82.4 | 91.8 | 81.7 | 84.3 | 81.0 | 84.1 | 58.7 | 77.6 | 59.4 |
| 180 | 82.9 | 92.2 | 82.1 | 84.7 | 81.4 | 84.5 | 58.3 | 78.2 | 59.8 |

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Table 2 Observations Made during the Test Tabla 2. Observaciones realizadas durante la prueba.

| Time Tiempo (min:seg) (min:sec) | Observations Observaciones |
|---------------------------------------|---|
| 00:00 | Furnace fired. Horno encendido. |
| 21:00 | Slight smoke was released from the sample. Se liberó un ligero humo de la muestra. |
| 100:00 | Slight smoke released continued. Liberación continua de un ligero humo. |
| 180:00 | The sample wall kept the Integrity and Insulation, end test. La pared de la muestra mantuvo su integridad y aislamiento, se finalizó la prueba. |

A.6 Performance Criteria (EN 13501-2:2016, clause 7.5.2.3.1 & clause 7.5.2.3.2)

Criterio de rendimiento (EN 13501-2:2016, cláusula 7.5.2.3.1 y cláusula 7.5.2.3.2)

The performance of the specimen was assessed against the criteria for integrity and insulation in accordance with EN 13501-2:2016, Clause 7.5.2.3. El rendimiento de la muestra fue evaluado según los criterios de integridad y aislamiento de acuerdo con EN 13501-2:2016, cláusula 7.5.2.3.

Integrity: Failure is deemed to occur:

Integridad: Se considera que ha ocurrido un fallo.

a) When collapse occurs; or

Cuando ocurre el colapso; o

b) When sustained flaming for not less than 10s on the unexposed surface occurs; or

Cuando se produce una llama sostenida durante al menos 10 segundos en la superficie no expuesta; o

c) For situations where the cotton pad is suitable, when flames and/or hot gases cause flaming or

glowing of the cotton fibre pad; or Para situaciones en las que la almohadilla de algodón no sea adecuada, cuando las llamas y/o los gases calientes provoquen la ignición o incandescencia de la almohadilla de fibra de algodón; o

d) For situations where the cotton pad is not suitable, when either:

Para situaciones en las que la almohadilla de algodón no sea adecuada, cuando cualquiera de los siguientes casos ocurra:

i) the 6 mm diameter gap gauge can penetrate a through gap such that the end of the gauge

projects into the furnace and the gauge can be moved in the gap for a distance of at least 150

mm; or La galga de separación de 6 mm de diámetro puede penetrar a través de una separación de modo que el extremo de la galga se proyecte dentro del horno y la galga pueda moverse en la separación por una distancia de al menos 150 mm; o

ii) the 25 mm diameter gap gauge can penetrate a through gap such that the end of the gauge

projects into the furnace. La galga de separación de 25 mm de diámetro puede penetrar a través de una separación de modo que el extremo de la galga se proyecte dentro del horno.

Insulation: Failure is deemed to occur:

Aislamiento: Se considera que ha ocurrido un fallo:

a) When the mean unexposed surface temperature rise more than 140 °C; or

Cuando el incremento promedio de la temperatura en la superficie no expuesta es superior a 140 grados Celsius; o

b) When the temperature rise recorded at any position on the unexposed surface, either by a fixed

thermocouple or by the roving thermocouple is in excess of 180 °C; or

cuando el incremento de temperatura registrado en cualquier posición de la superficie no expuesta, ya sea por un termopar fijo o por el termopar móvil, sea superior a 180 grados Celsius; o

c) When integrity failure occurs.

Cuando se produce un fallo en la integridad.

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A.7 Statements Declaraciones.

The results only relate to the behaviour of the specimen of the element of construction under the particular conditions of the test. They are not intended to be the sole criteria for assessing the potential fire performance of the element in use nor do they reflect the actual behaviour in fires.

Los resultados se relacionan únicamente con el comportamiento de la muestra del elemento de construcción bajo las condiciones particulares de la prueba. No están destinados a ser los únicos criterios para evaluar el rendimiento potencial frente al fuego del elemento en uso, ni reflejan el comportamiento real en incendios.

Note: The above test was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Anji

Branch.

Nota: La prueba anterior fue realizada por SGS-CSTC Standard Technical Services Co., Ltd. Sucursal Anji.

Test Item 6: Sound Transmission Loss

Ítem de prueba 6: Pérdida de transmisión de sonido.

I、 Condition

Condición

- 1) Volume of source room: 88.6m³, Volume of receive room :67.9m³;
Volumen de la sala de origen: 88.6 m³, Volumen de la sala de recepción: 67.9 m³
- 2) Area of test Specimen: 10.5m²
Área de la muestra: 10.5 m².
- 3) Specifications: 100mm Thick.
Especificaciones: 100 mm de espesor.
- 4) Temperature: 22°C
Temperatura: 22 grados celsius
- 5) Relative humidity: 67%
Humedad relativa: 67 %

II、 Accordance

Conformidad

According to 'Acoustics-Measurement of sound insulation in buildings and of buildings elements- Part 3: Laboratory measurement of airborne sound insulation of building elements (ISO140-3:1995) ' and 'Acoustics-Rating of sound insulation in buildings and of building elements Part1: Airborne sound insulation (ISO 717-1:1996) '.

De acuerdo con "Acústica: Medición del aislamiento acústico en edificios y elementos de edificación - Parte 3: Medición en laboratorio del aislamiento acústico aéreo de elementos de edificación (ISO 140-3:1995)" y "Acústica: Evaluación del aislamiento acústico en edificios y elementos de edificación - Parte 1: Aislamiento acústico aéreo (ISO 717-1:1996)".

The sound reduction index R shall be calculated by the following equation:

El índice de reducción del sonido R se calculará utilizando la siguiente ecuación:

$$R = \bar{L}_{p1} - \bar{L}_{p2} + 10 \lg \frac{S}{A} \quad (dB) \quad (1)$$

\bar{L}_{p1} —average sound pressure level in the source room, dB;

Nivel promedio de presión sonora en la sala de origen, en decibeles (dB);

\bar{L}_{p2} —average sound pressure level in the receiving room, dB;

Nivel promedio de presión sonora en la sala de recepción, en decibeles (dB);

S —area of test specimen that is exposed in the receiving room, m², (2.25m²);

Área de la muestra de prueba expuesta en la sala de recepción, en metros cuadrados (2.25 m²);

A —sound absorption of the receiving room with the test specimen in place, m².

Absorción de sonido de la sala de recepción con la muestra de prueba en su lugar, en metros cuadrados (m²);

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III、 Instruments Instrumentos

B&K 2270 Investigation、 Power amplifier B&K 2716、 Omni directional speaker B&K 4292、

Microphone B&K 4189 and accessories.

B&K 2270: Analizador de sonido B&K 2270.

Amplificador de potencia B&K 2716.

Altavoz omnidireccional B&K 4292.

Micrófono B&K 4189.

Accesorios otros.

IV、 Test Results: Resultados de la prueba

| Specifications Especificaciones | EPS CEMENT SANDWICH PANEL : EPS CEMENT SANDWICH PANELS are mounted in the middle of the wall (area:10.5 m ²) between the source room and the receive room. Paneles Sandwich de Cemento: Los paneles sandwich de cemento EPS se instalan en el centro de la pared (área: 10.5 m ²) entre la habitación de origen y la habitación receptora. | |
|------------------------------------|--|--|
| Frequency Frecuencia (Hz) | The sound reduction index R , dB El índice de reducción de sonido R , dB. | |
| 100 | 37.1 | |
| 125 | 34.5 | |
| 160 | 30.9 | |
| 200 | 33.2 | |
| 250 | 35.4 | |
| 315 | 33.2 | |
| 400 | 32.5 | |
| 500 | 35.3 | |
| 630 | 35.9 | |
| 800 | 41.7 | |
| 1000 | 45.1 | |
| 1250 | 50.9 | |
| 1600 | 54.2 | |
| 2000 | 58.0 | |
| 2500 | 60.1 | |
| 3150 | 63.2 | |
| 4000 | 63.1 | |
| 5000 | 62.4 | |
| Rw (C;Ctr) | 42 (-1,-3) | |

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GZCCM 028275



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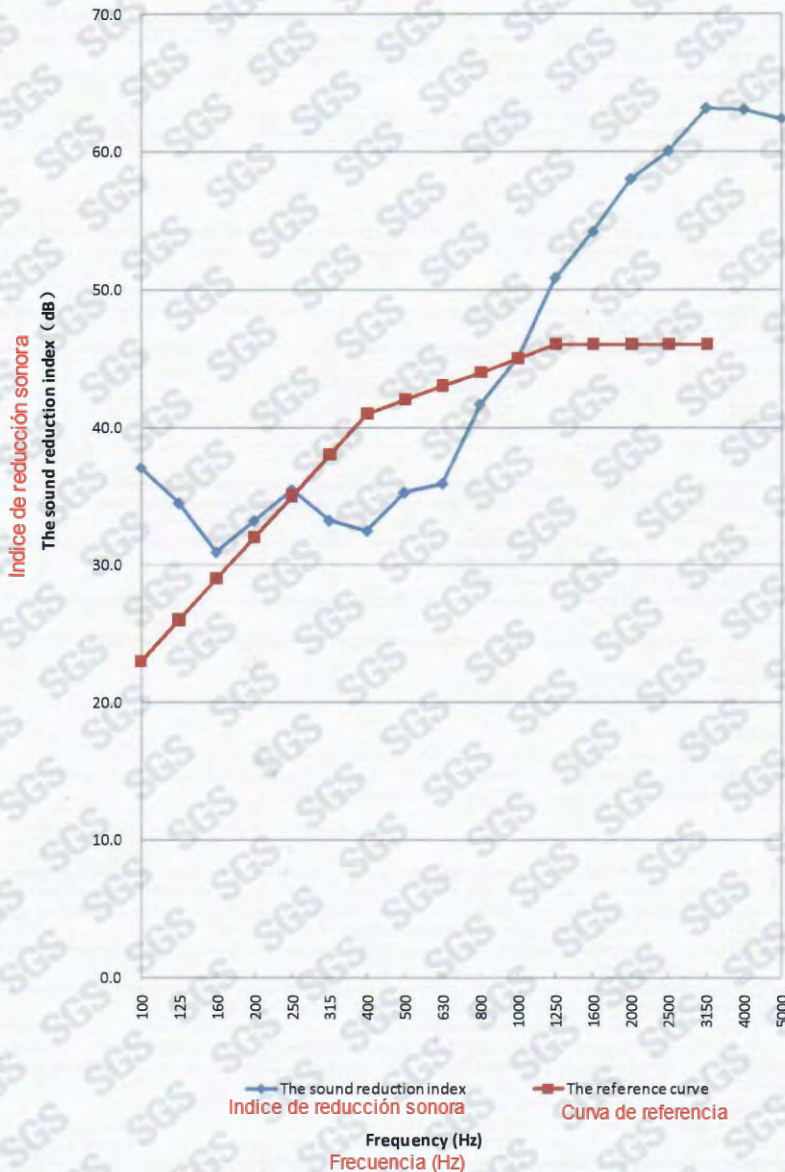
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And The sound transmission loss of the tested specimen are plotted as follows.

EPS CEMENT SANDWICH PANEL (Thickness:100mm)

Y la pérdida de transmisión de sonido del espécimen probado se representa de la siguiente manera. EPS Panel sandwich de cemento (Grosor: 100 mm)



Note: The above test was carried out by Subtropical Architecture Institute South China University of Technology.

Nota: La prueba anterior fue realizada por el Instituto de Arquitectura Subtropical de la Universidad de Tecnología del Sur de China.

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Photo: Foto:



Sample for test item 1
Muestra para la prueba 1



Sample for test item 2 and 3
Muestra para la prueba 2 y 3.



Sample for test item 4
Muestra para la prueba 4.

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GZCCM 028277



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Sample for test item 2-During test
Muestra para el elemento de prueba 2: Durante la prueba.

Sample for test item 3-During test
Muestra para el elemento de prueba 3: Durante la prueba.



Sample for test item 2-After test
Muestra para el elemento de prueba 2: Después de la prueba.

Sample for test item 3-After test
Muestra para el elemento de prueba 3: Después de la prueba.

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The unexposed face before test item 4
Cara no expuesta previo a la prueba de item 4.



The exposed face before test item 4
Cara expuesta previo a la prueba de item 4.



The unexposed face after test item 4
Cara no expuesta después de la prueba de item 4.



The exposed face after test item 4
Cara expuesta después de la prueba de item 4.

Note: This test report supersedes the test report GZIN170902787CCM, the original test reports (paper and electronic) are void.

Nota: este informe de prueba reemplaza el informe de prueba GZIN170902787CCM, los informes de prueba originales (en papel y electrónicos) son nulos.

*****End of report*****
Final de la prueba.



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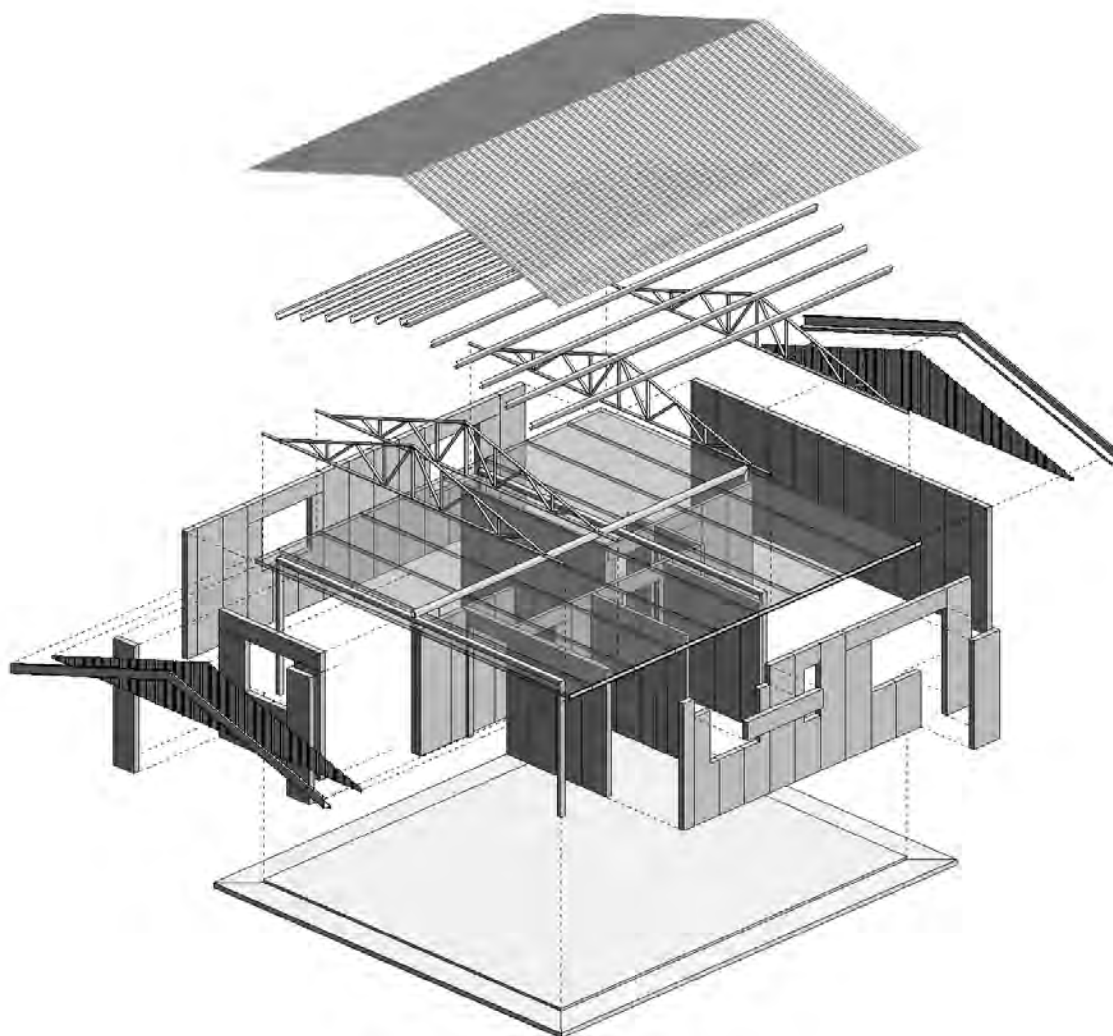
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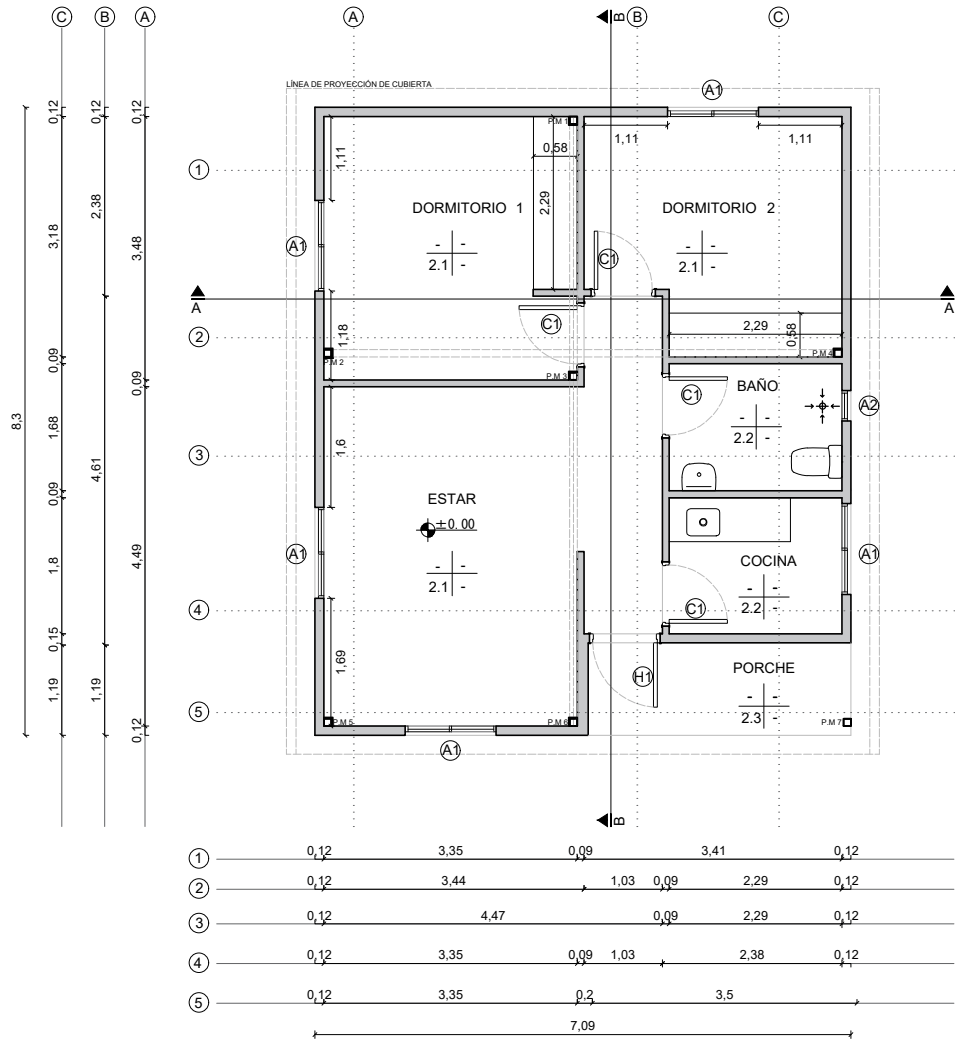
GZCCM 028279

Anexo 3: Recaudos gráficos de arquitectura.

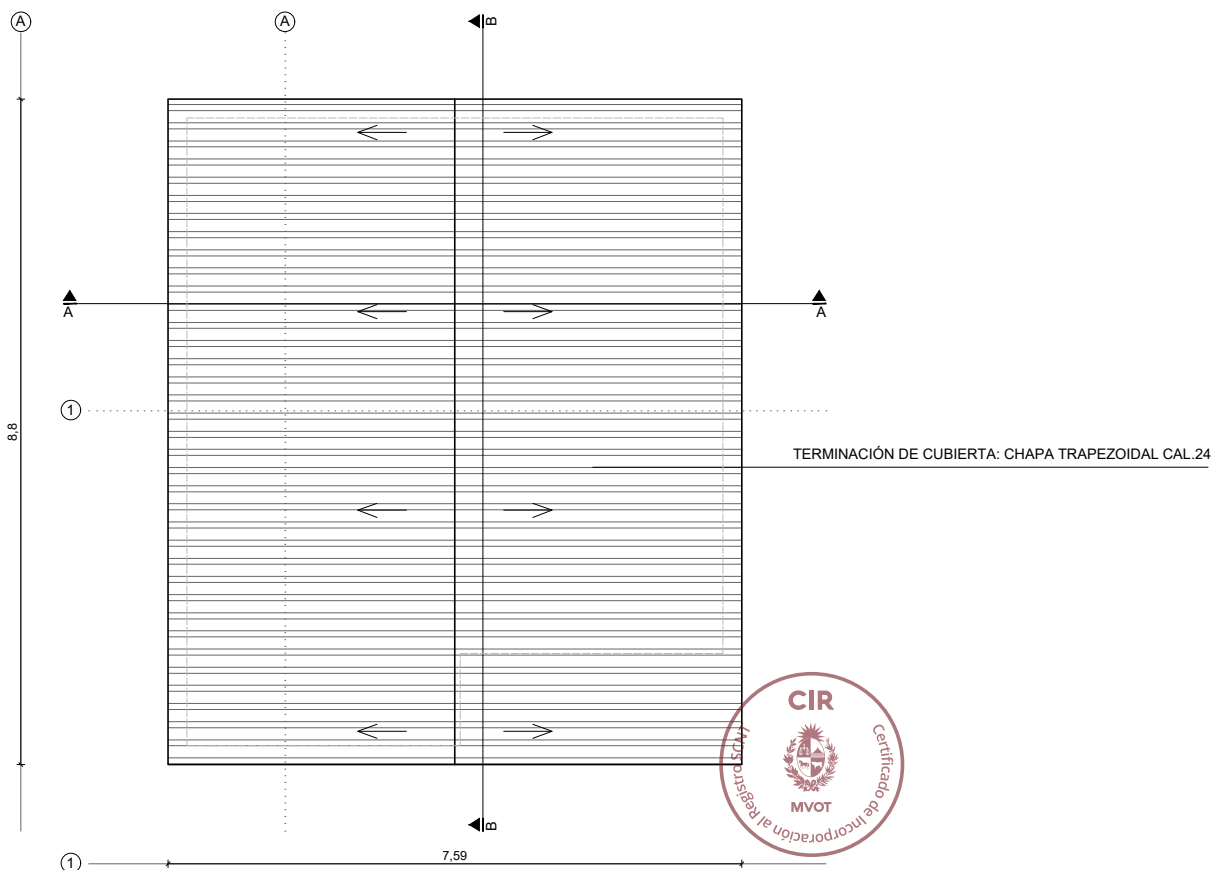
Se adjuntan planos para una tipología básica.



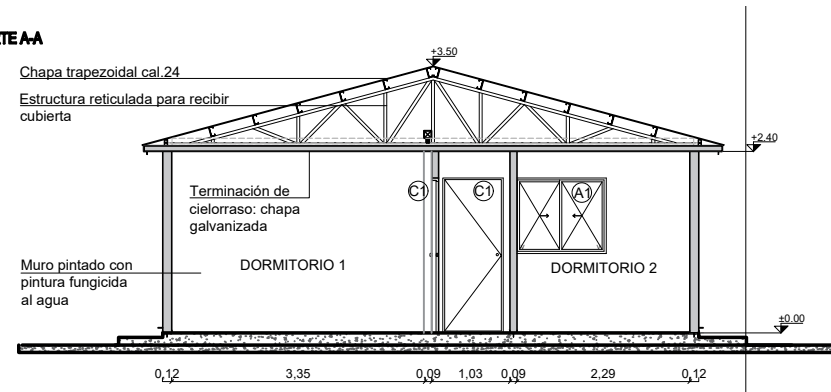
PLANTA



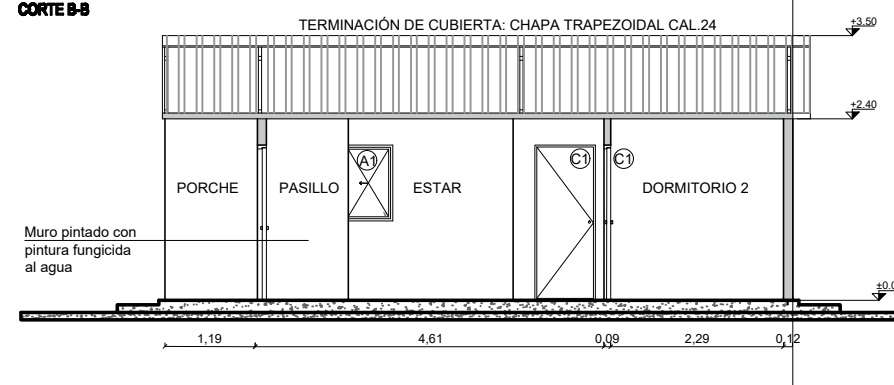
PLANTA DE TECHOS



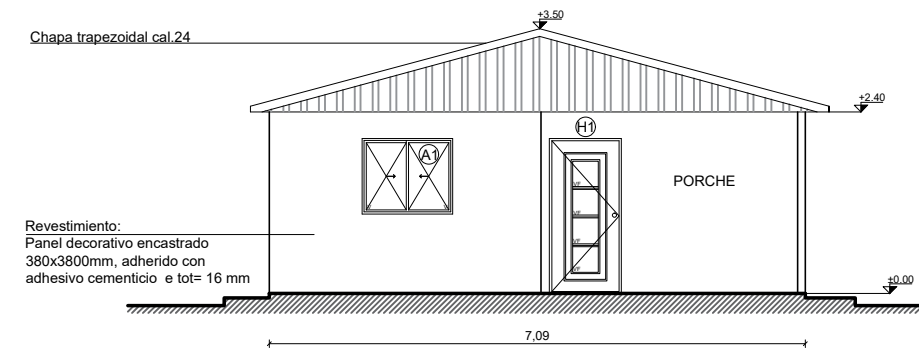
CORTE A-A



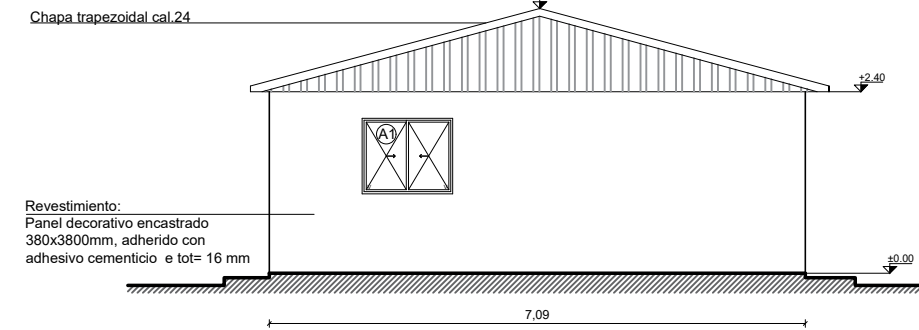
CORTE B-B



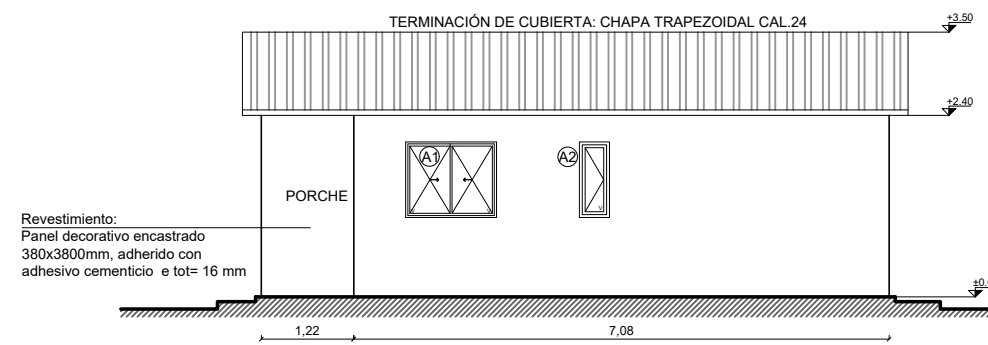
FACHADA FRONTAL



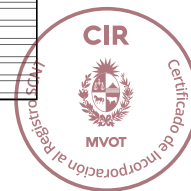
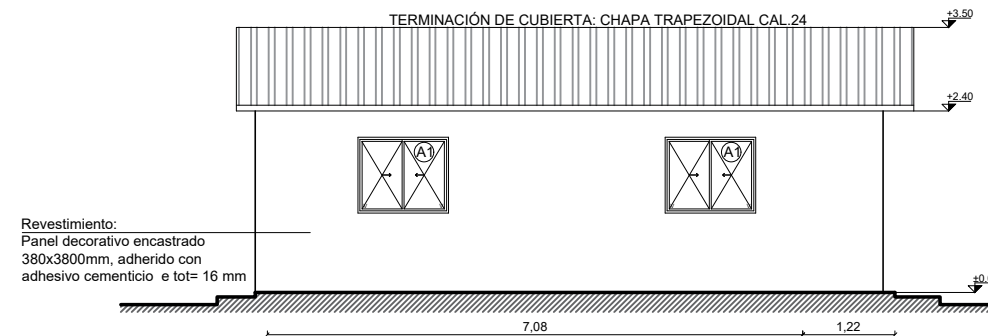
FACHADA POSTERIOR



FACHADA LATERAL DERECHA

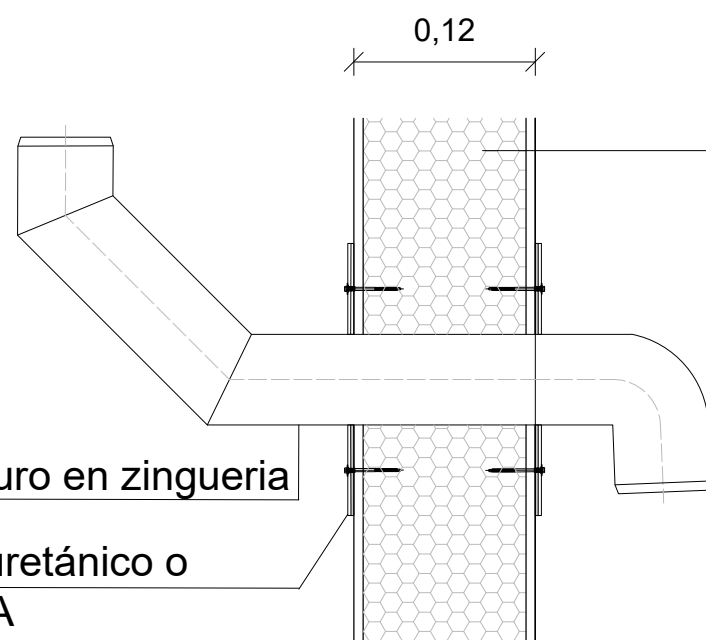


FACHADA LATERAL IZQUIERDA



| | | |
|--|----------------------|--------------------|
| | Ubicación: | |
| | Representante Moric: | Nelson Lasso |
| | Título: | |
| | Módulo: | |
| <p align="center">PLANOS DE ALBAÑILERÍA</p> | | |
| Proyecto: | Escala: | |
| Dib: | 1:100 | |
| Control: | | 107 |
| Apellido: | Apellido de Padre: | Apellido de Madre: |

ATRAVESAMIENTO P/PARED PARA CHIMENEA

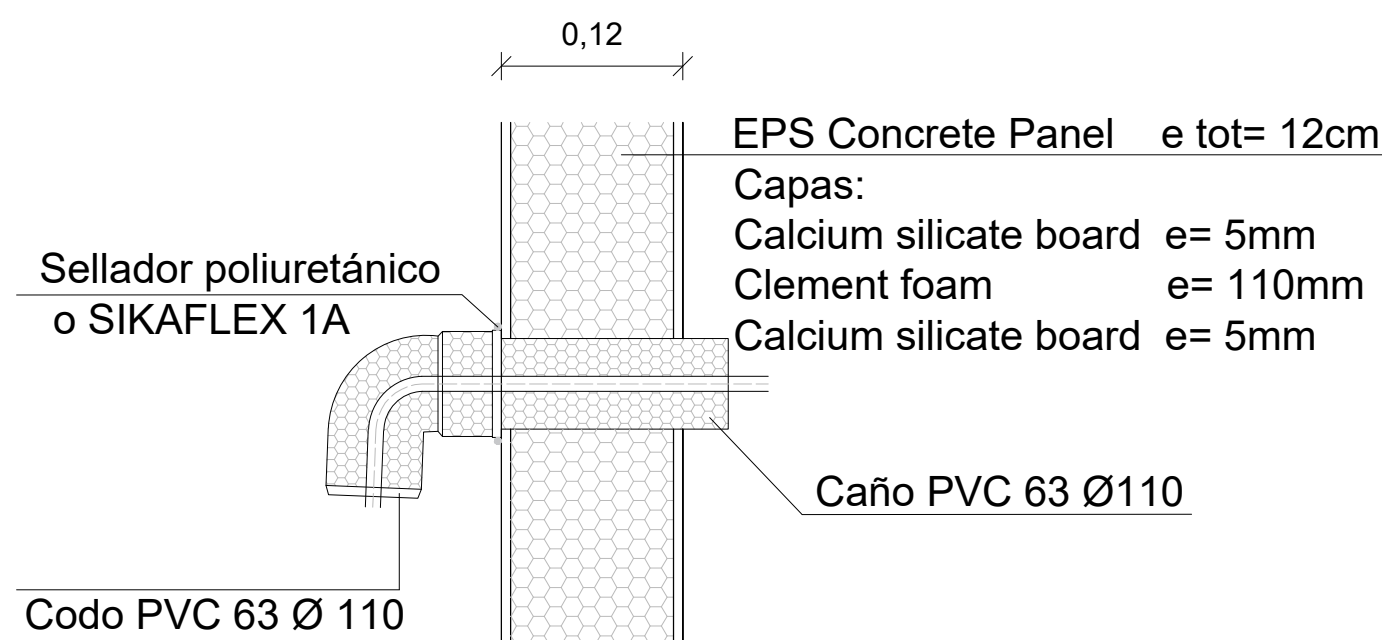


EPS Concrete Panel e tot= 12cm
 Capas:
 Calcium silicate board e= 5mm
 Clement foam e= 110mm
 Calcium silicate board e= 5mm

Pieza pasamuro en zingueria

Sellador poliuretánico o SIKAFLEX 1A

ATRAVESAMIENTO P/PARED PARA INSTALACIONES



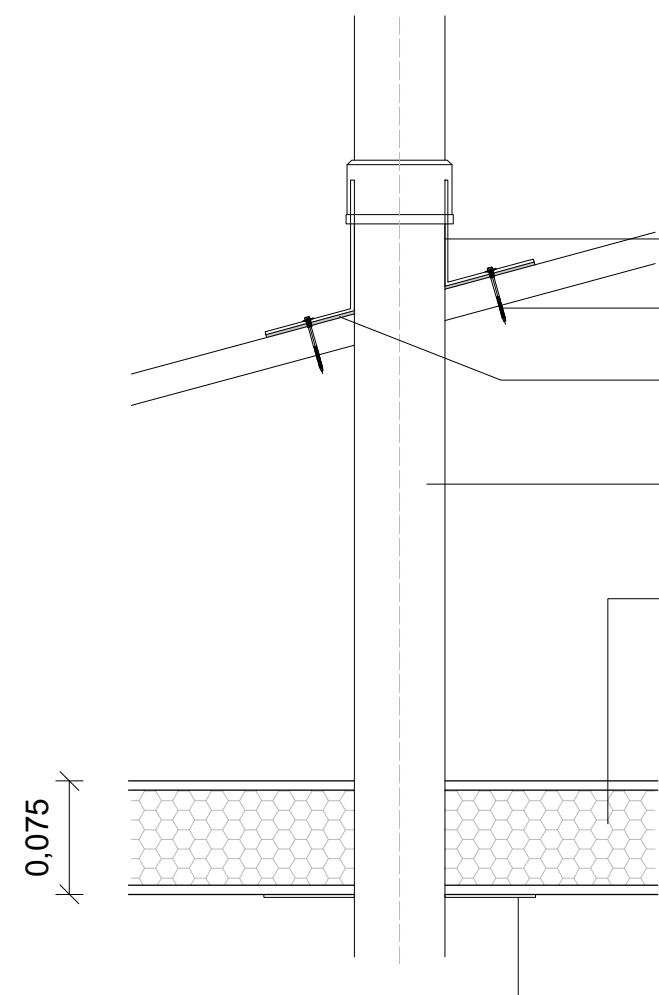
EPS Concrete Panel e tot= 12cm
 Capas:
 Calcium silicate board e= 5mm
 Clement foam e= 110mm
 Calcium silicate board e= 5mm

Sellador poliuretánico o SIKAFLEX 1A

Codo PVC 63 Ø 110

Caño PVC 63 Ø110

ATRAVESAMIENTO P/TECHO PARA CHIMENEA Y/O INSTALACIONES



Pieza zingueria o dektite EPDM

Remache

Sellador poliuretánico o SIKAFLEX 1A

Caño PVC 63 Ø110

Panel de cielorraso e tot= 7.5 cm

Capas:

-Chapa galvanizada e= 5 mm



-Lana de roca e= 65 mm

d= 80 kg/m³ - 120 kg/m³

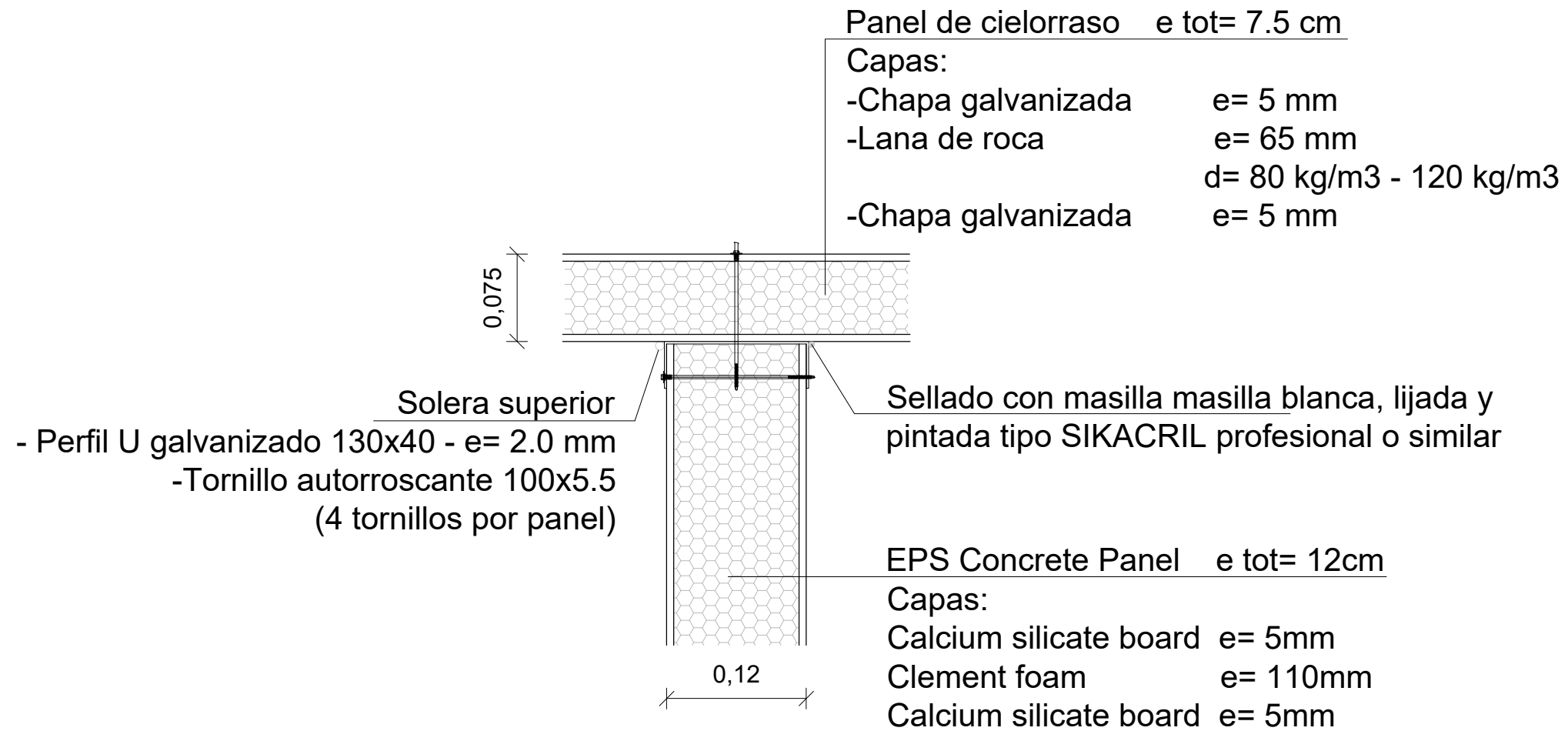
-Chapa galvanizada e= 5 mm

Pieza cubre cielo de acero inoxidable



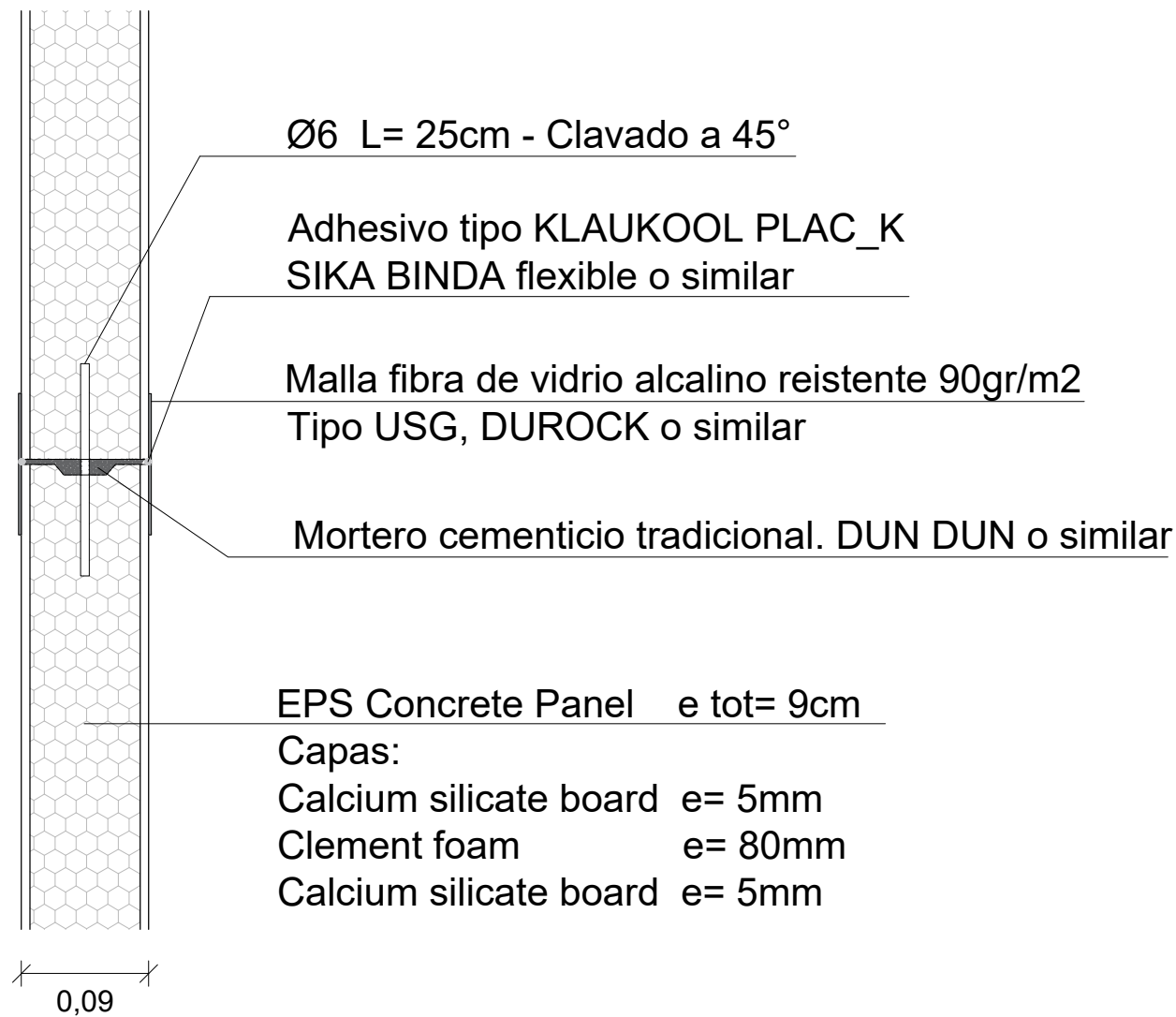
| | | | |
|--|--------|---|----------|
|  CASA CREA | | | |
| P= PRELIMINAR AR= ARQUITECTO LEY 16.344 APC= APCO PARA LICITAR | | Ubicación: Propietario: Nelson Lillo | |
|  GLBIARQ | | Tít. Títul: Mide: Especialidad: | |
| DETALLES | | | |
| Proyecto | Escala | 0001 A101 | L02 |
| Dib. | 1:5 | 108 | |
| Control | | Archivado | Revisión |
| Apelid. | | Fecha | Fecha |

INSTALACIÓN PANEL DE CIELORRASO CON MURO VERTICAL DE 12 cm

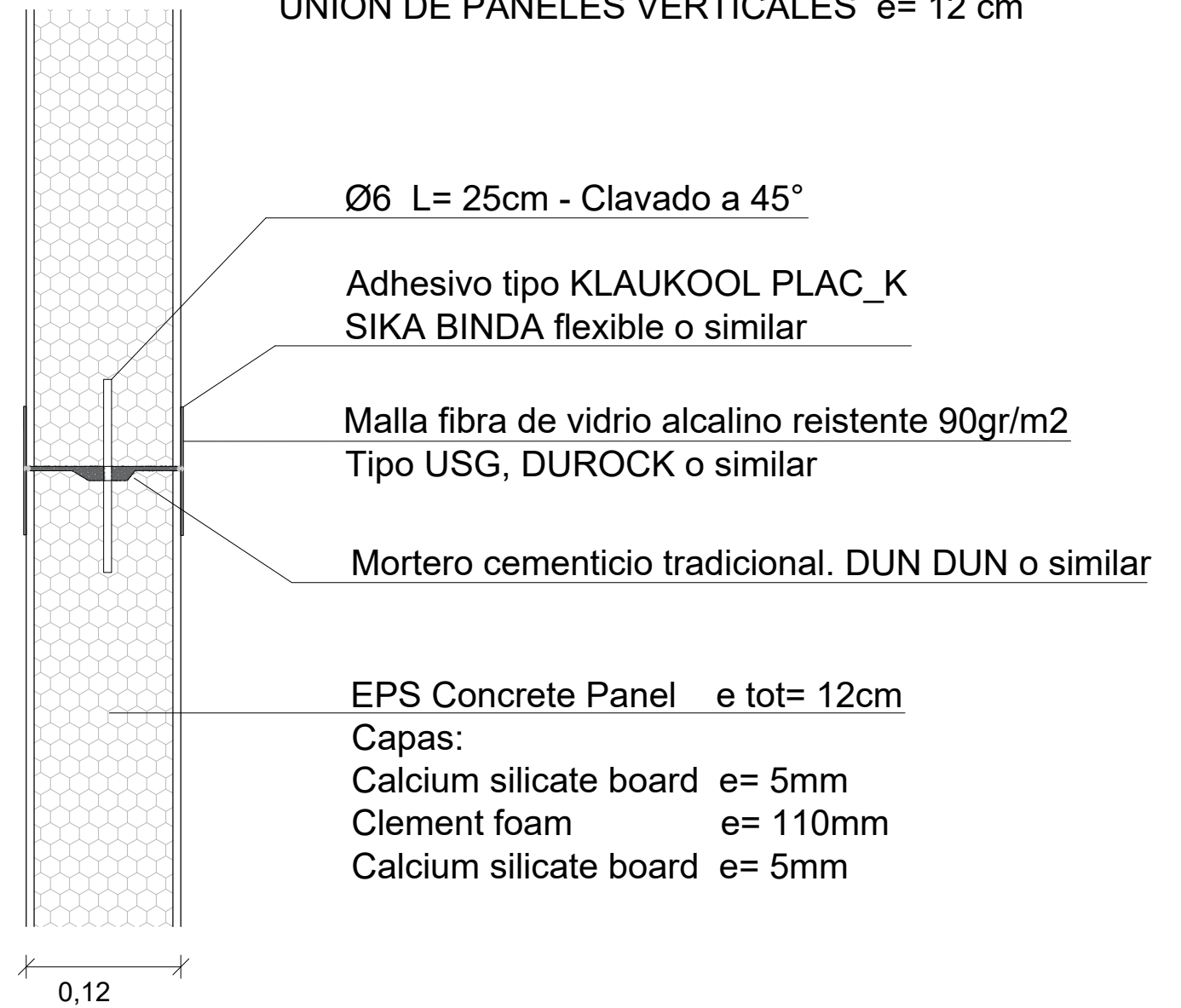


| | | | |
|---|--------|----------------------------|----------|
| CASA CREA | | Ubicación: | |
| P= PRELIMINAR APL= APDO PARA LICITAR APE= APDO PARA LICITAR | | Propietario: Nelson Lallua | |
| GLBIARQ | | Título: | |
| | | Módulo: Especialidad: | |
| DETALLES | | | |
| Proyecto | Escala | 0001 A101 | L03 |
| Día | 1:9 | 109 | |
| Control | | Archivado | Revisión |
| Fecha | | País | |

UNIÓN DE PANELES VERTICALES e= 9 cm

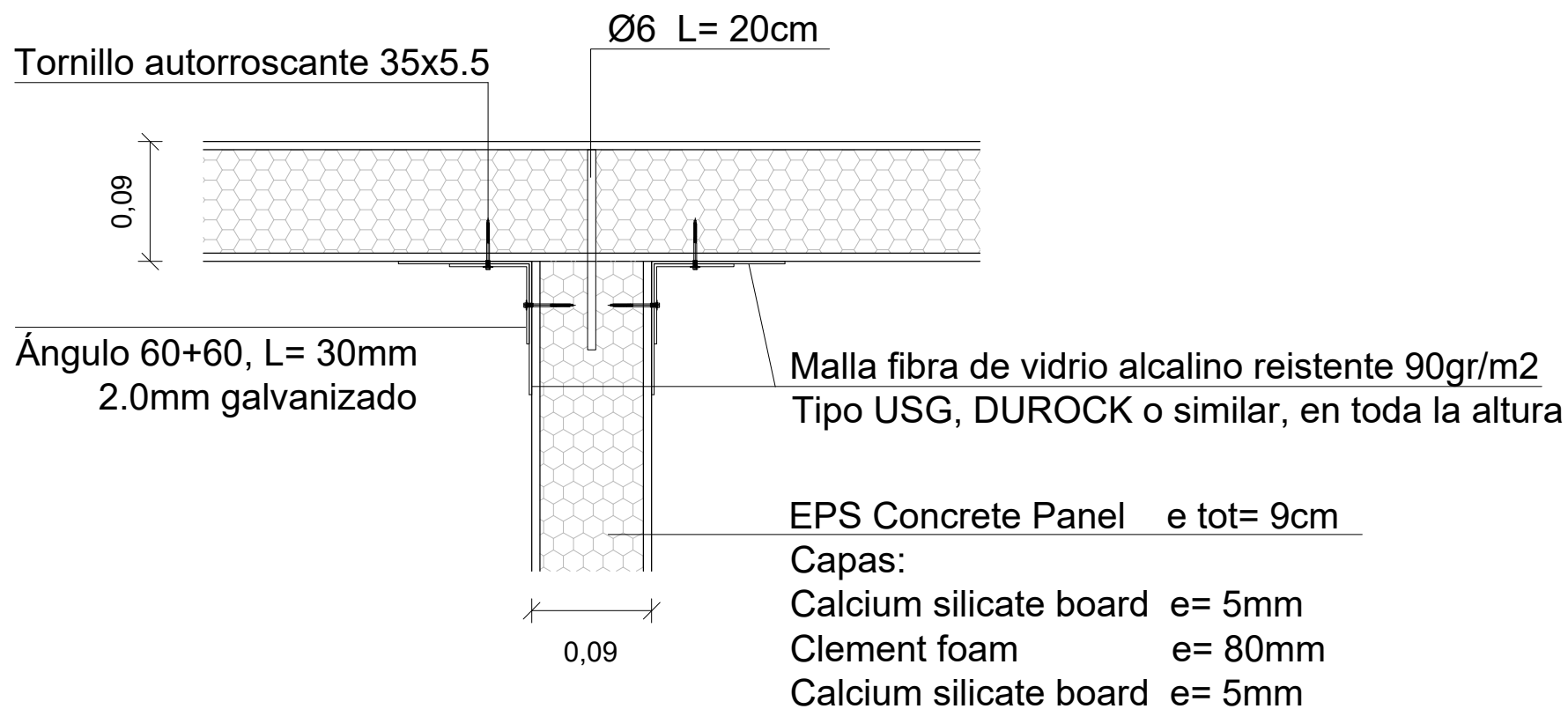


UNIÓN DE PANELES VERTICALES e= 12 cm

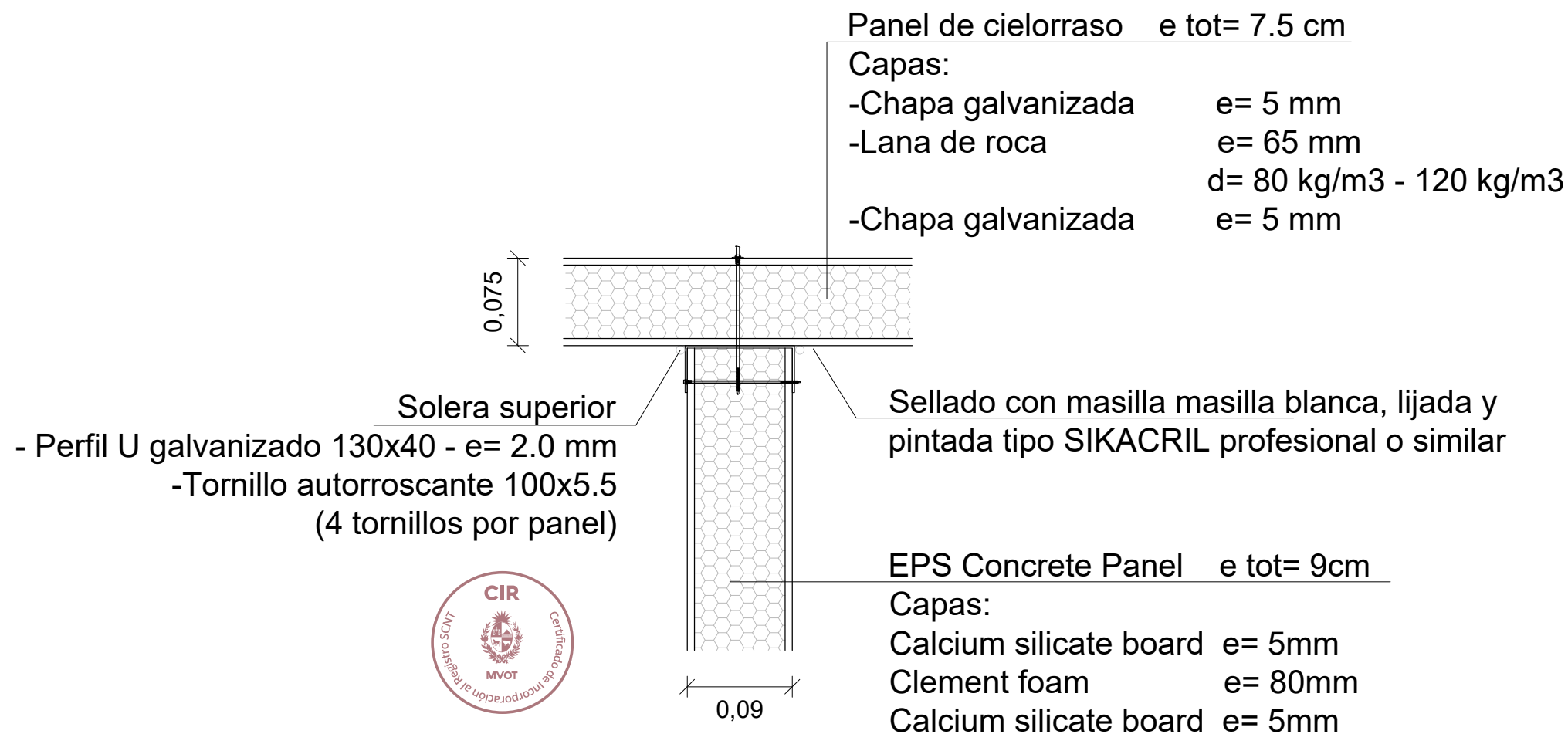


| | | | |
|---|--------|-----------------------------|------------------|
| CASA CREA | | Ubicación: | |
| P= PRELIMINAR APL = APDO PARA LICITAR APE = APDO PARA LICITAR | | Propietario: Nelson Lallana | |
| GLBIARQ | | Título: | |
| | | Módulo: Especialidad: | |
| DETALLES | | | |
| Proyecto | Escala | 0001 A101 110 | L04 |
| Día | 1:3 | | |
| Control | | Archivado Por: | Revisado Por: |
| Aprobado | | | |

CANAL U SUPERIOR e= 9 cm

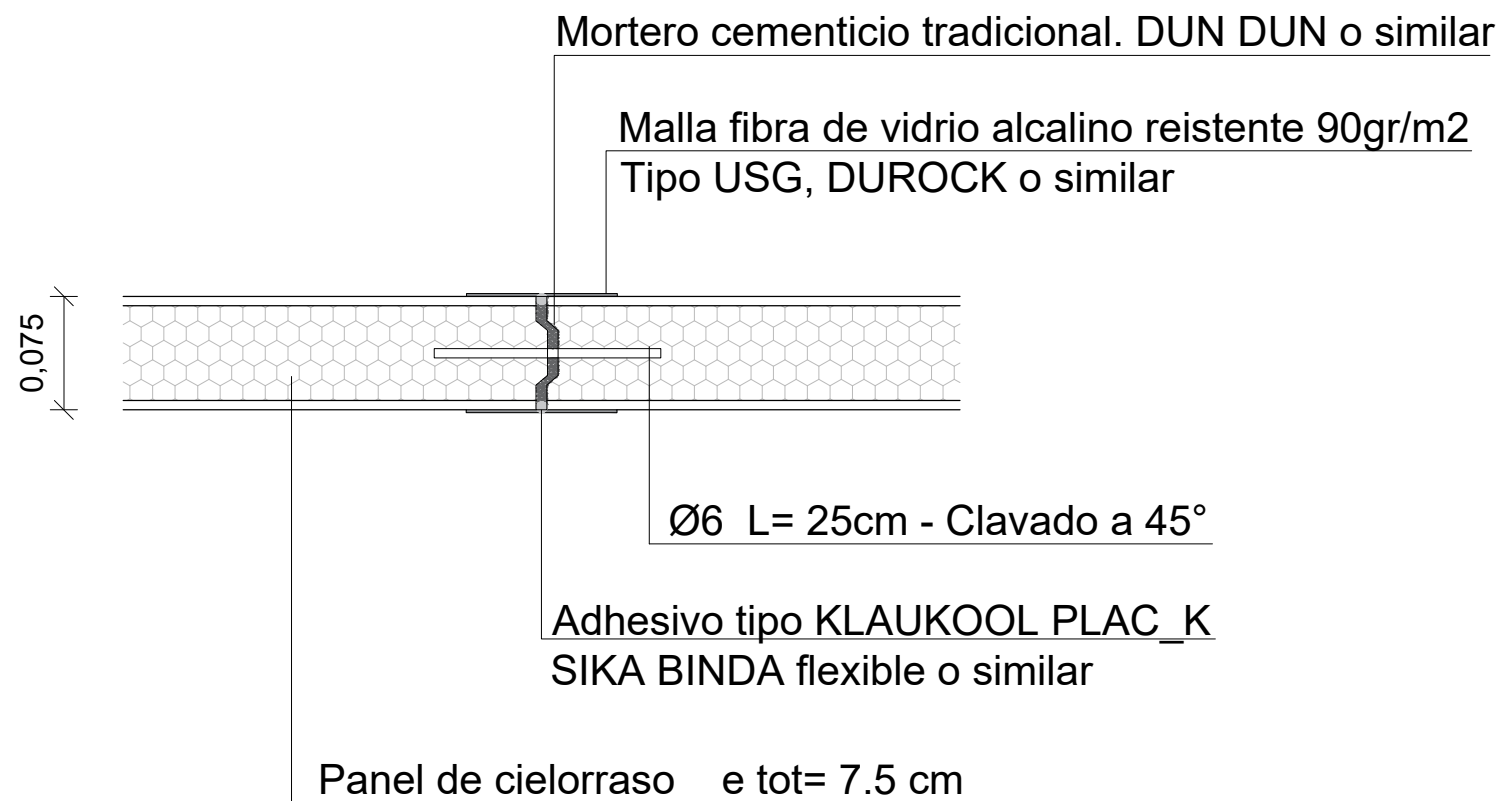


INSTALACIÓN PANEL DE CIELORRASO CON MURO VERTICAL DE 9 cm



| | | | |
|---|--------|----------------------------|------------------|
| CASA CREA | | Ubicación: | |
| P= PRELIMINAR APL= APDO PARA LICITAR APE= APDO PARA LICITAR | | Propietario: Nelson Lallua | |
| | | Título: | |
| | | Módulo: Especialidad: | |
| DETALLES | | | |
| Proyecto | Escala | 0001 A101 111 | L05 |
| Dib | 1:3 | | |
| Control | | Archivado Por: | Revisado Por: |
| Aprob | | | |

UNIÓN DE PANELES HORIZONTALES e= 7.5 cm



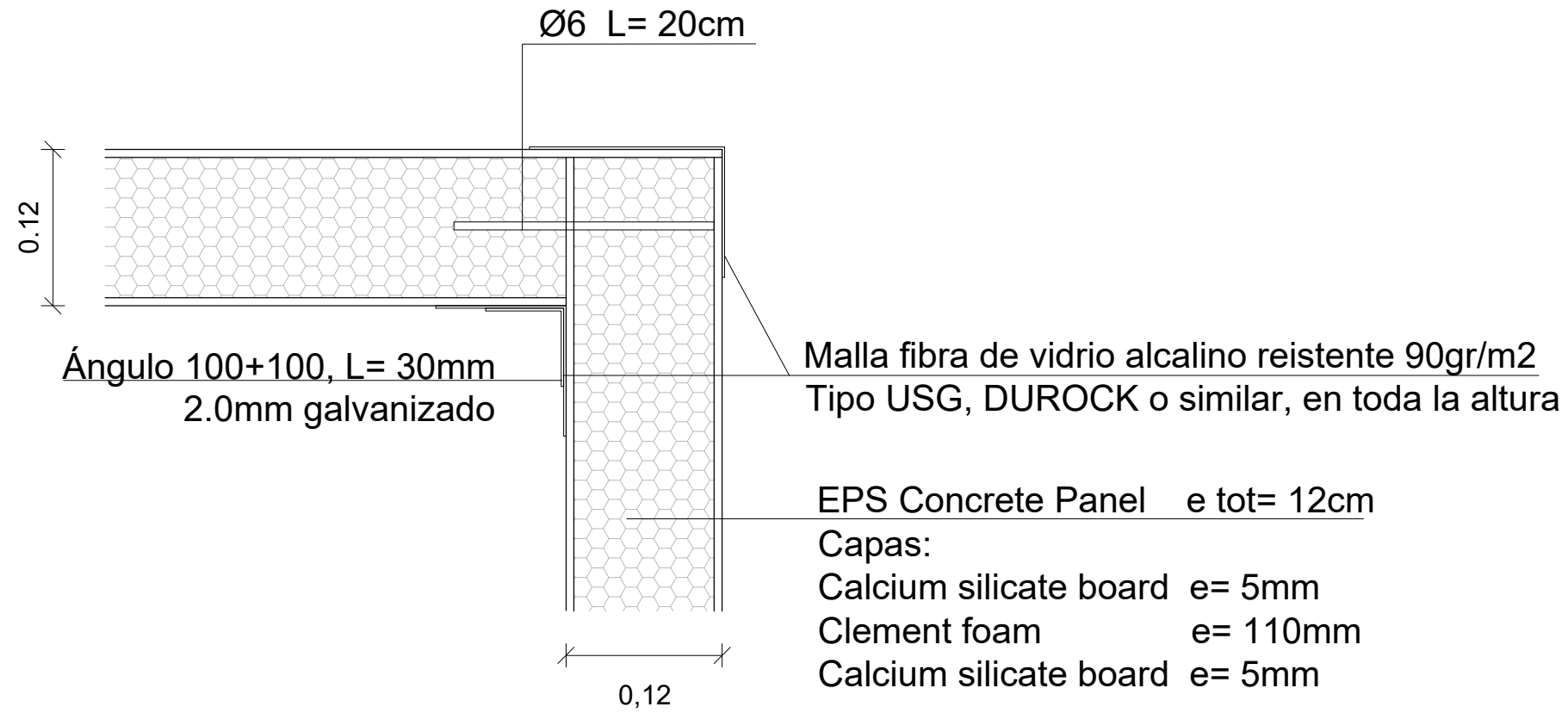
Capas:

- Chapa galvanizada e= 5 mm
- Lana de roca e= 65 mm
d= 80 kg/m3 - 120 kg/m3
- Chapa galvanizada e= 5 mm

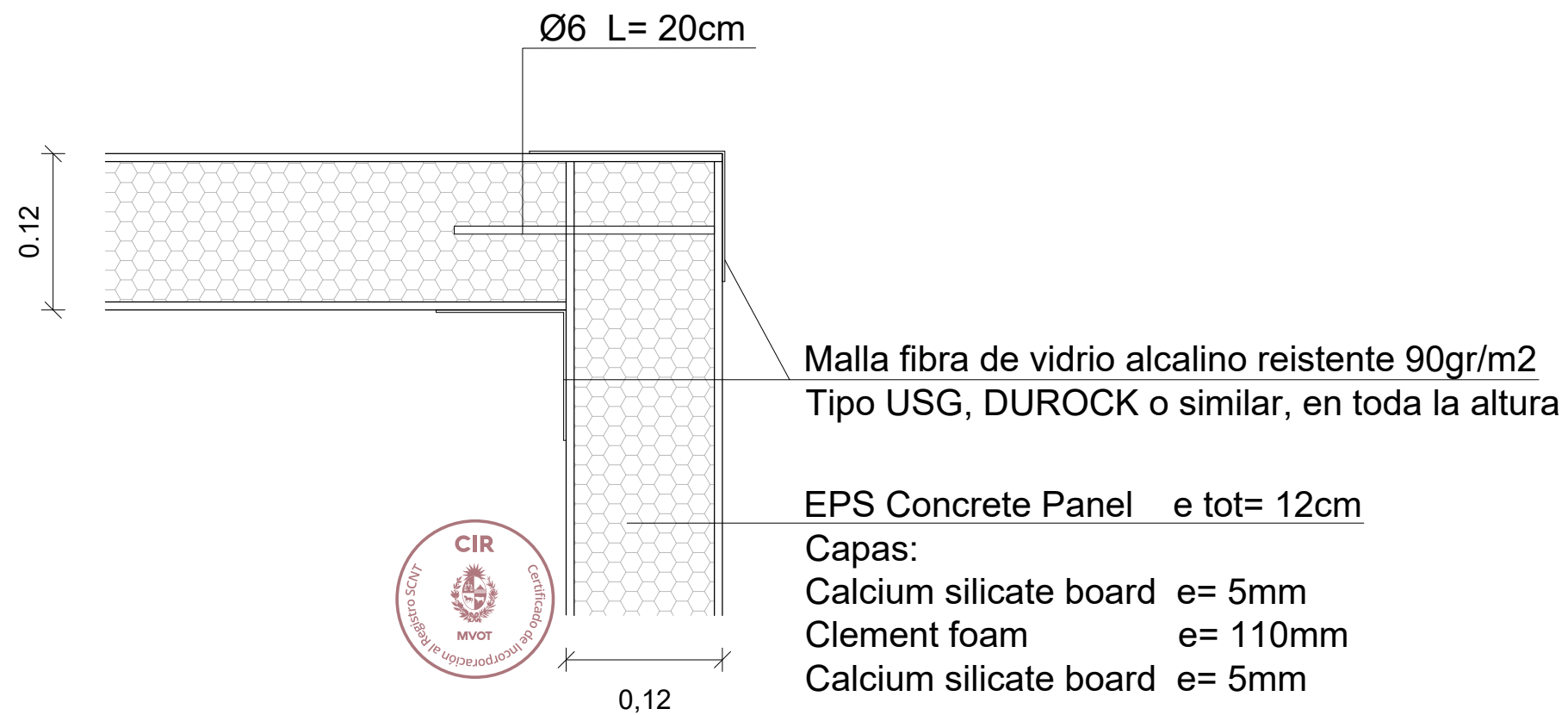


| | | | |
|---|--|-------------------|------------------|
| CASA CREA | | | |
| P= PRELIMINAR AR= ARQUITECTO LEY 7452 APC= APCO PARA LEY 7452 | | Ubicación: | |
| | | Propietario: | Nelson Lallón |
| | | Tipo Título: | |
| | | Módulo: | |
| | | Especialidad: | |
| DETALLES | | | |
| Proyecto | | Escala | |
| Dib | | 1:5 | |
| Control | | | |
| Aprob | | | |
| | | 0001 A101 112 | LOG |
| | | Archivado Por: | Revisión Por: |

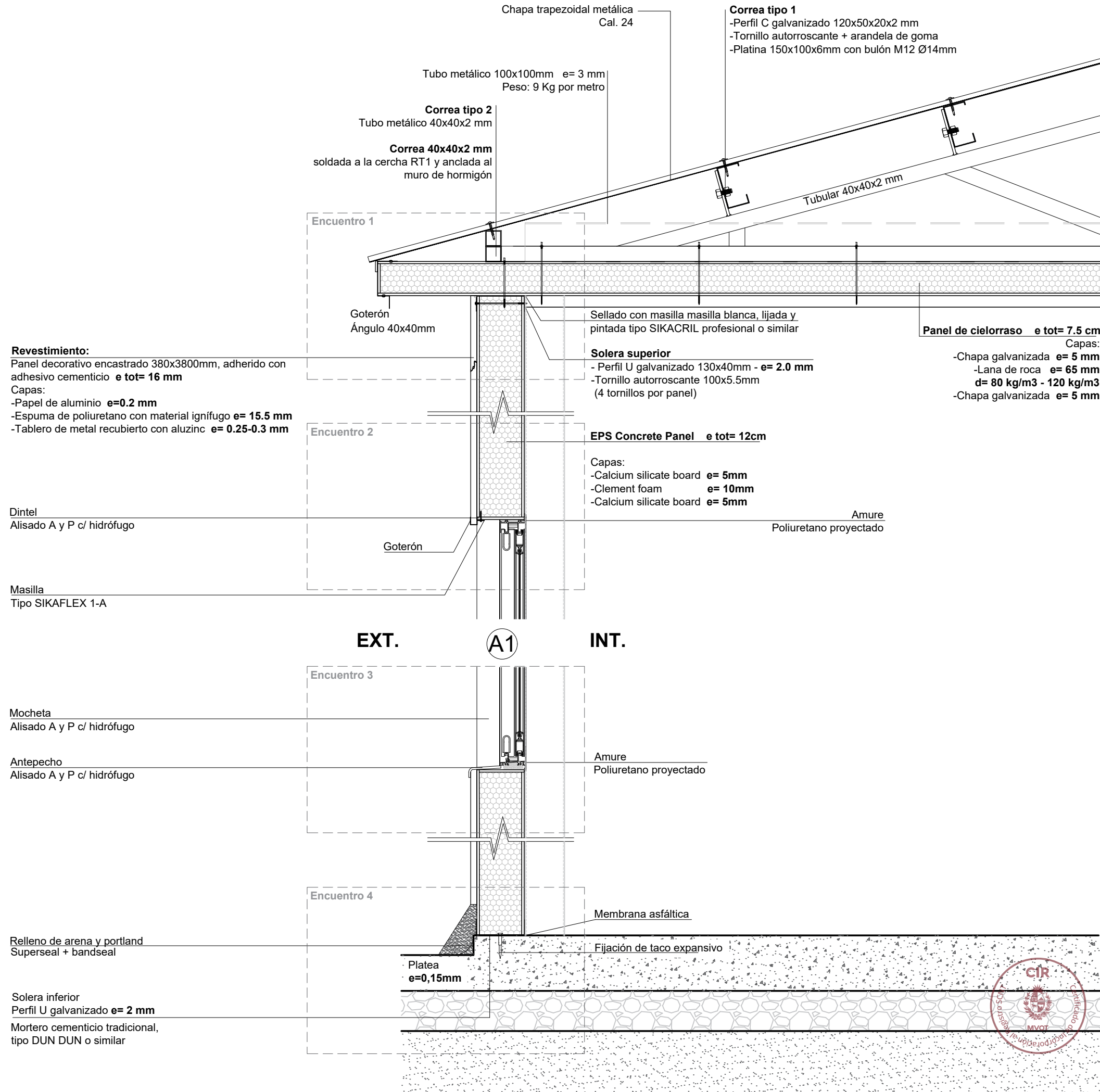
UNIÓN U SUPERIOR e= 12 cm



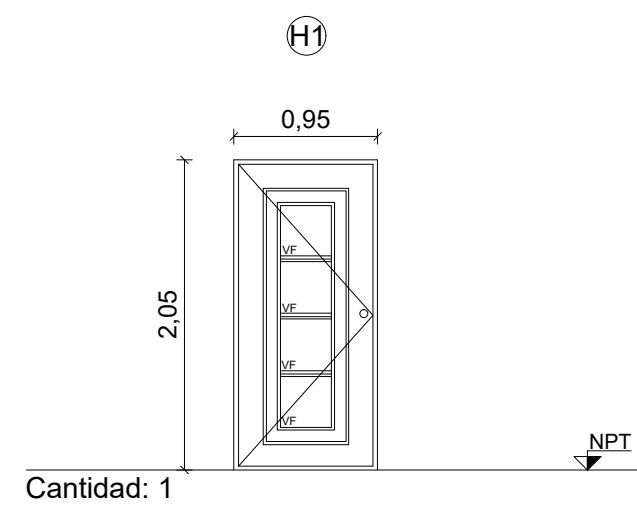
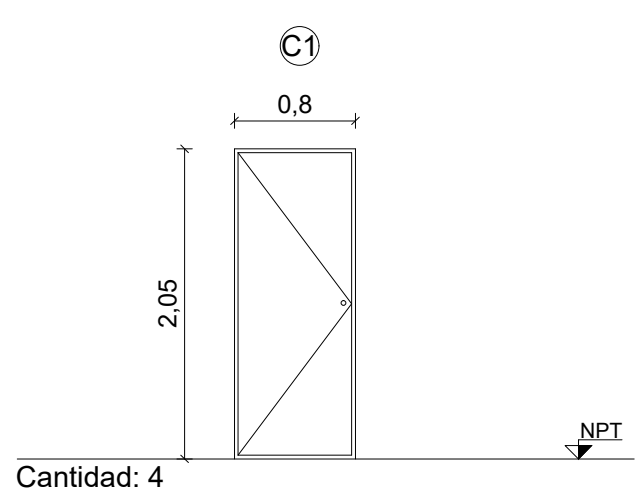
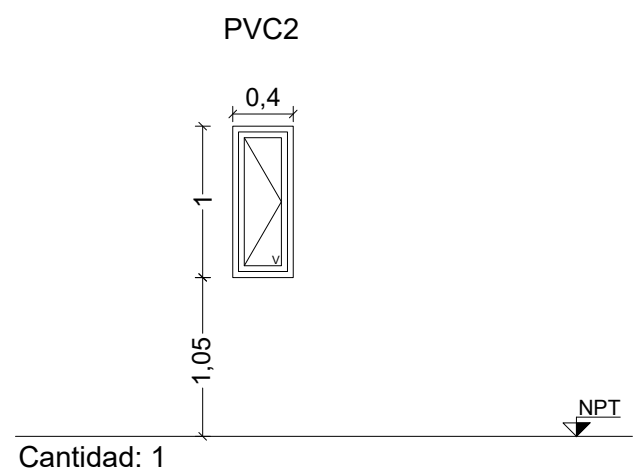
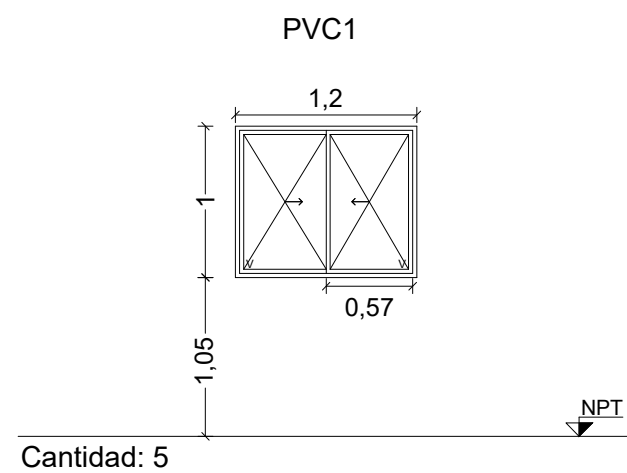
UNIÓN ESQUINA INFERIOR e= 12 cm



| | | | |
|---|--|--------------------|---------------|
| CASA CREA | | <i>[Signature]</i> | |
| P= PRELIMINAR APL= APDO PARA LICITAR APE= APDO PARA LICITAR | | Ubicación: | |
| | | Propietario: | Nelson Lallua |
| | | Tipo Título: | |
| GLBIARQ | | Módulo: | |
| | | Especialidad: | |
| DETALLES | | | |
| Proyecto | | Escala | |
| Dib | | 1:3 | |
| Control | | | |
| Aprob | | Archivado Por: | 113 |
| | | Archivado Por: | 108 |



| | | |
|-----------|--|----------------|
| | Ubicación: | |
| | Representante Técnico: Nelson Lasso | |
| Título: | | |
| | Módulo: | CORTE INTEGRAL |
| | Especialidad: | |
| Proyecto: | Escala: | 114 |
| Día: | 1:10 | |
| Control: | Archivado en: | 114 |
| Aprobado: | Fecha: | |



| | | | |
|--|----------|-----------------------------|----------|
| CASA CREA | | Ubicación: | |
| P= PRELIMINAR AP= APTO PARA ALQUILAR APE= APTO PARA ALQUILAR | | Propietario: Nelson Lallana | |
| | | Título: | |
| | | Módulo: Especialidad: | |
| PLANILLA DE ABERTURAS | | | |
| Proyecto | Escala | 0001 A101 | L10 |
| Dib | 1:5 | 115 | |
| Control | Fecha de | Archivada | Revisión |
| Aprob | Por: | Por: | Por: |

EXT.

INT.

Revestimiento:

Panel decorativo encastrado 380x3800mm, adherido con adhesivo cementicio **e tot= 16 mm**

Capas:

- Papel de aluminio **e=0.2 mm**
- Espuma de poliuretano con material ignífugo **e= 15.5 mm**
- Tablero de metal recubierto con aluzinc **e= 0.25-0.3 mm**

Goterón

EPS Concrete Panel e tot= 12cm




Capas:

- Calcium silicate board e= 5mm
- Clement foam e= 10mm
- Calcium silicate board e= 5mm

-Calcium silicate board e= 5mm
Cierre horizontal con plancha de silicato de calcio.

A1

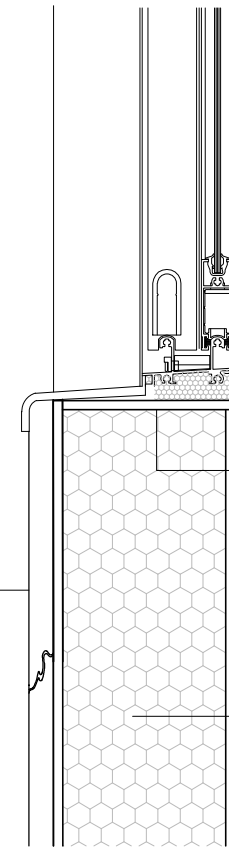


| | | | | |
|---|---------|---|----------|------------|
|  | | Ubicación: | | |
| | | Representante Moraleja: Nelson Lasso  | | |
| Título: | | | | |
|  | | Módulo: | | |
| | | Especialidad: | | |
| CORTE INTEGRAL ENCUENTRO 2 | | | | |
| Proyecto: | Escala: | 0001 A101 | 116 | L11 |
| Día: | 1:10 | | | |
| Control: | | Archivado | Revisado | Revisado |
| Aprobó: | | Por: | Por: | Por: |

EXT.

A1

INT.



Amure
Poliuretano proyectado

Calcium silicate board e= 5mm
Cierre horizontal con plancha de silicato de calcio.

EPS Concrete Panel e tot= 12cm

Capas:
-Calcium silicate board e= 5mm
-Clement foam e= 10mm
-Calcium silicate board e= 5mm



Revestimiento:

Panel decorativo encastrado 380x3800mm, adherido con adhesivo cementicio e tot= 16 mm

Capas:

- Papel de aluminio e=0.2 mm
- Espuma de poliuretano con material ignífugo e= 15.5 mm
- Tablero de metal recubierto con aluzinc e= 0.25-0.3 mm



| | | | |
|--|-----------------|---|------------------|
|  CASA CREA | | Usuario: Representante Moricor Nelson Lasso | |
| | | Título: Módulo: Especialidad: | |
|  GLBIARQ. | | CORTE INTEGRAL ENCUENTRO 3 | |
| Proyecto: Día: Control: Aprobó: | Escala: 1:10 | 117 | L12 |
| | | Aprobado Por: | Aprobado Por: |

Revestimiento:

Panel decorativo encastrado 380x3800mm, adherido con adhesivo cementicio **e tot= 16 mm**

Capas:

- Papel de aluminio **e=0.2 mm**
- Espuma de poliuretano con material ignífugo **e= 15.5 mm**
- Tablero de metal recubierto con aluzinc **e= 0.25-0.3 mm**

EPS Concrete Panel e tot= 12cm

Capas:

- Calcium silicate board **e= 5mm**
- Clement foam **e= 10mm**
- Calcium silicate board **e= 5mm**

EXT.

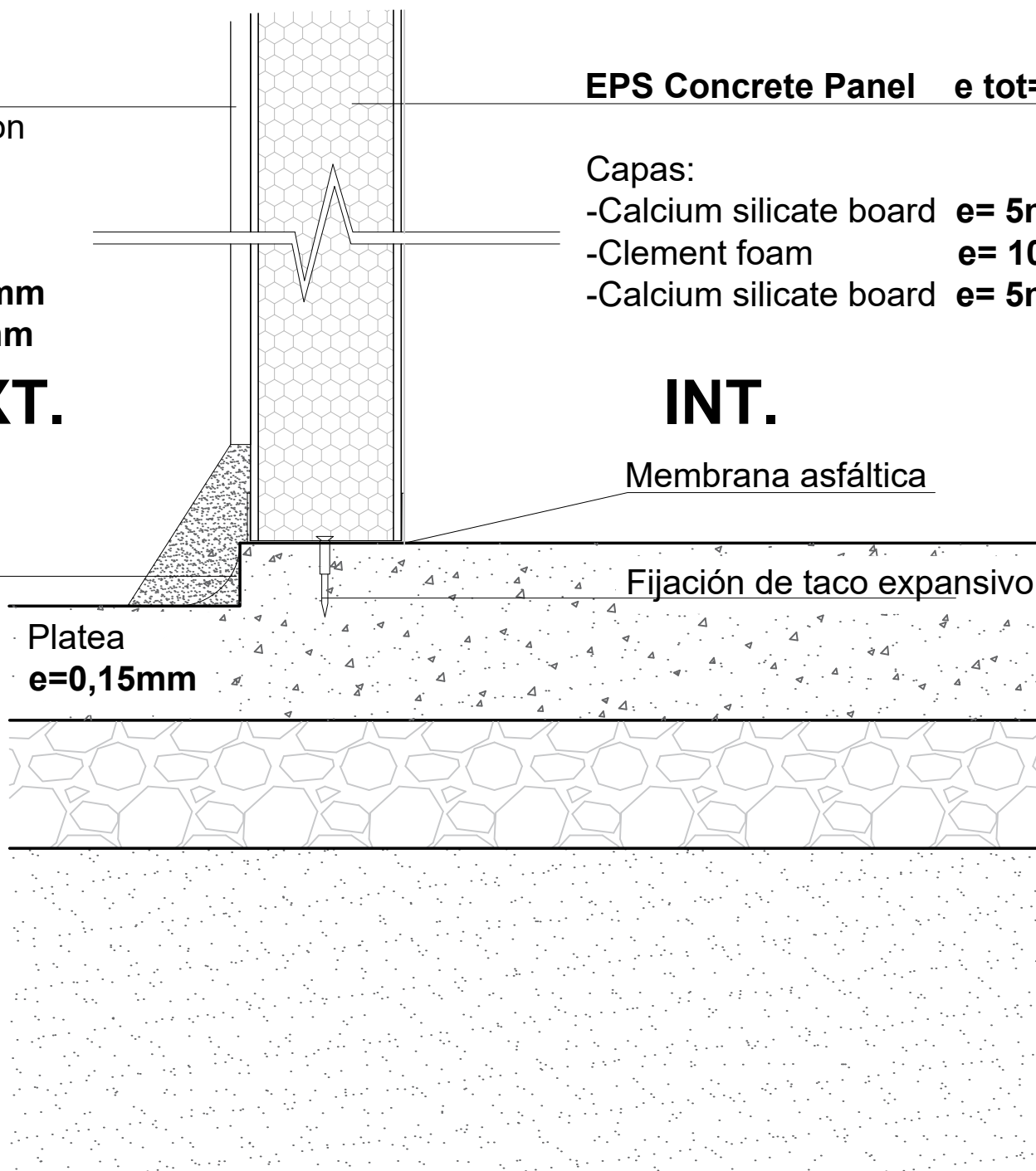
INT.




Membrana asfáltica

Fijación de taco expansivo

Relleno de arena y portland
Superseal + bandseal

Platea
e=0,15mm



| | | |
|--|---|---|
|  CASA CREA | Ubicación: |  |
| | Representante Mexico: Nelson Latorre | |
| Título: | | |
|  GLBIARQ | Módulo: | CORTE INTEGRAL ENCUENTRO 4 |
| | Especialidad: | |
| Proyecto: | Escala: | 118 |
| Día: | 1:10 | |
| Control: | | L13 |
| Apellido: | Apellido de Pater: | |