



**Alumil**

**Alumil**  **SMARTIA**  
S67 URBAN

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## When outstanding performance of aluminium meets Art Déco aesthetics

SMARTIA S67 URBAN is a new hinged system that enriches ALUMIL's range with an option that successfully blends the present with the past and the classic with the modern.

Its unique aesthetics can easily meet the modern architecture trend of industrial design accompanied with all the top performances of a hinged insulated system.

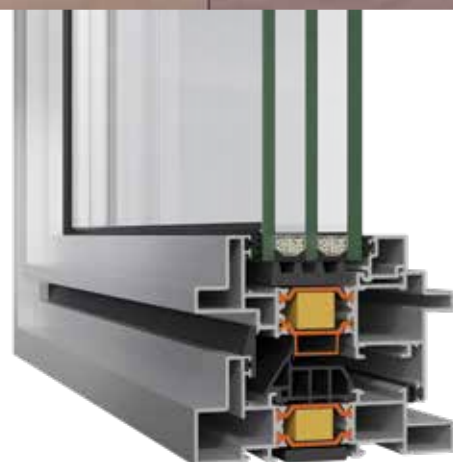
Its aesthetics and technical features render S67 URBAN an ideal option for projects that industrial design is specified, whether they concern new buildings or upgrade of old steel framed windows.

### SMARTIA S67 URBAN

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## Synopsis of characteristics



**SMARTIA S67 URBAN** is a new hinged insulated system that ideally combines industrial look and top performances in terms of air and water tightness and thermal insulation.

- / Steel Look aesthetics.
- / Basic system depth 105 mm.
- / Available in two versions: Standard and High.
- / High thermal insulation ( $U_i \geq 1,9$ ).
- / 3 levels of watertightness with the use of EPDM gaskets.
- / Capable of triple glazing (up to 44 mm).
- / Both Concealed and Standard hinges .
- / Grid windows can be fabricated with a combination of T-profiles and muntins, fully imitating steel look image.

### Technical characteristics

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| Visible aluminium face width | 85mm                                                  |
| Frame height                 | 40mm                                                  |
| Frame width                  | 105mm                                                 |
| Sash height                  | 65mm                                                  |
| Sash width                   | 105mm                                                 |
| Sash weight                  | up to 180kg                                           |
| Glazing                      | up to 44 mm                                           |
| Insulation                   | polyamides 30mm width,<br>NRG Bar, PE insulation foam |



# Unique aesthetics



## Real Steel Look appearance

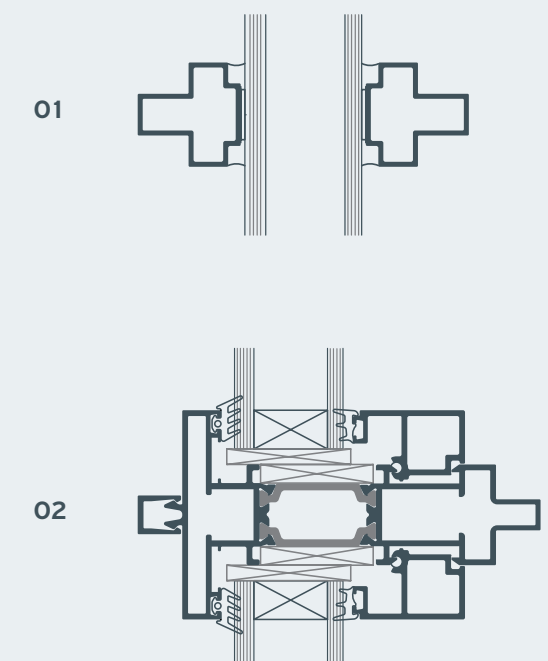
The intense protrusions of the surfaces give SMARTIA S67 URBAN an authentic steel look, fully aligned with the trends of modern architecture

Furthermore, these protrusions are applied not only in external but also in **internal** surface (not common to similar competitor's systems), enhancing the application of industrial look in the interior design.



## Grid Like Pattern

A Georgian Style appearance can be achieved, using both T-profiles (54 mm) and muntins (27 mm) in all possible combinations. Muntins can be installed with the use of silicon and adhesive tape.

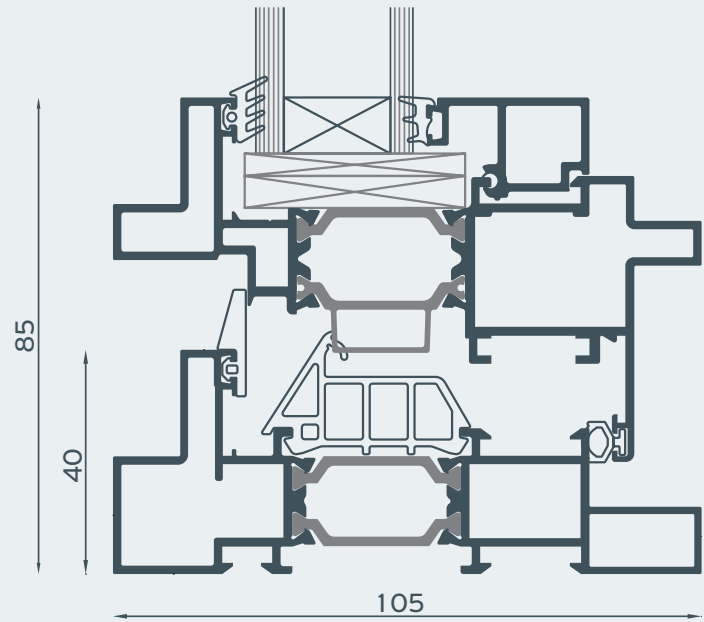
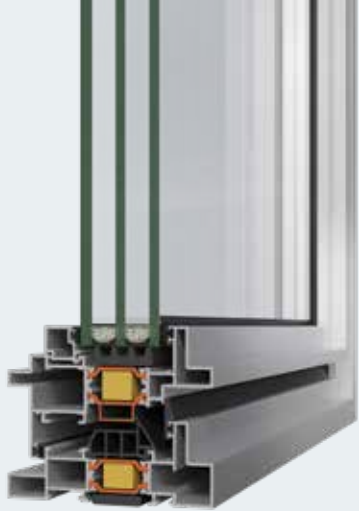






### Minimalism

By using a low frame of 40 mm height, we achieve a visible aluminium width of 85 mm, highlighting minimalism, the essence of Industrial look.



### Locking system

SMARTIA S67 URBAN uses European Groove mechanism and can be combined either with concealed hinges, providing a smooth surface to the outer performance, or standard hinges for a more competitive option.



# Insulation and sealing technology



### S67 Urban Versions

By choosing among available accessories, SMARTIA S67 URBAN provides two different levels of thermal insulation: Standard and Hi.

#### STANDARD



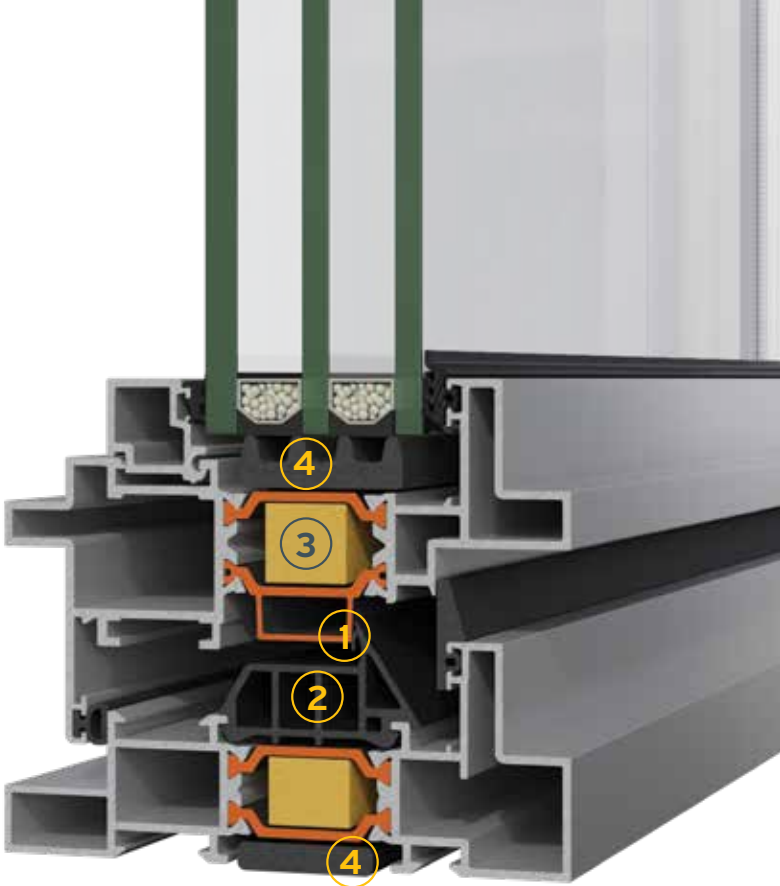
- / Multi chamber EPDM Central Gasket
- / One chamber EPDM wedge gasket

#### HI



- / Multi chamber EPDM Central Gasket
- / One chamber EPDM wedge gasket
- / PE Insulation Foam
- / Energy Bar

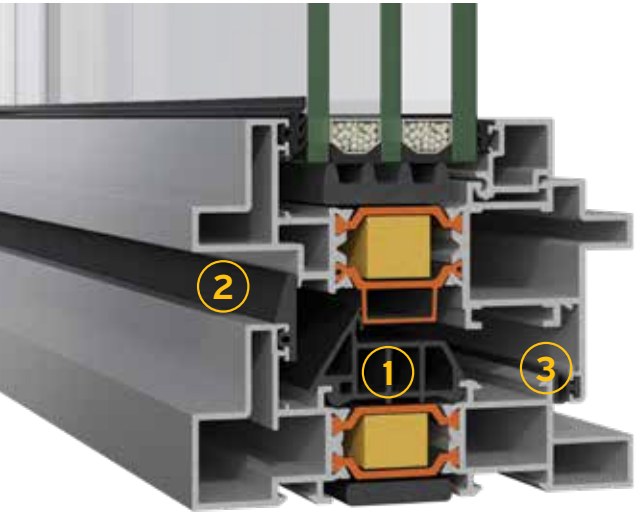
| No | Material                                                                                                                    | Version       |
|----|-----------------------------------------------------------------------------------------------------------------------------|---------------|
| 1  | 30mm width fiberglass reinforced polyamides                                                                                 | Standard & Hi |
| 2  | Multi chamber EPDM central gasket that contributes to system's high performances                                            | Standard & Hi |
| 3  | NRG Bar, a premium performance rigid insulation profile, that improves $U_f$ values up to 20%.                              | Hi            |
| 4  | Insulation foam profile, installed perimetrically under the glazing pane and frame, improving even more thermal efficiency. | Hi            |



### 3 level of sealing

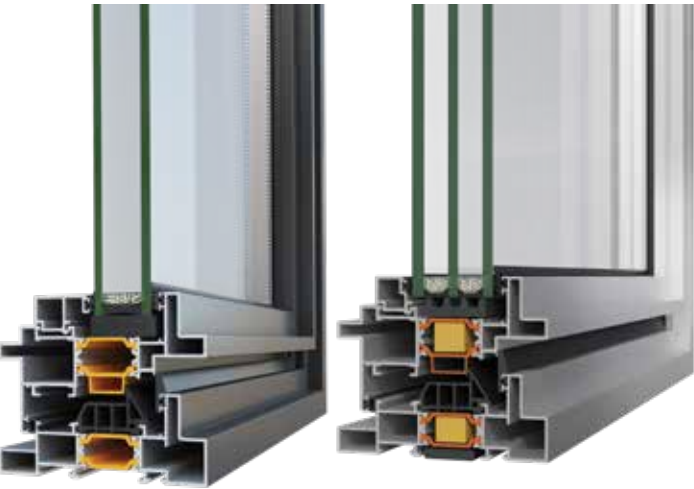
Using EPDM gaskets, S67 URBAN offers a three-level sealing, making the system totally protect from heavy weather conditions.

- 1 EPDM extruded central gasket, which ensures high performance sealing.
- 2 EPDM frame gasket.
- 3 EPDM sash gasket.



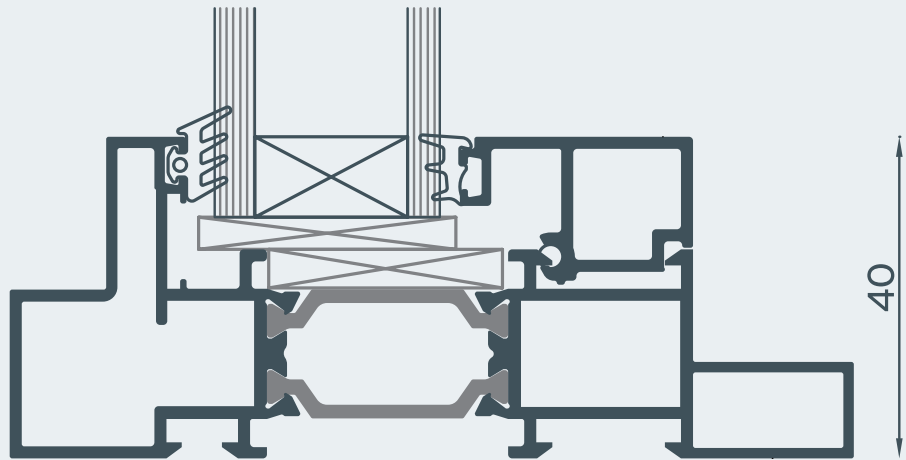
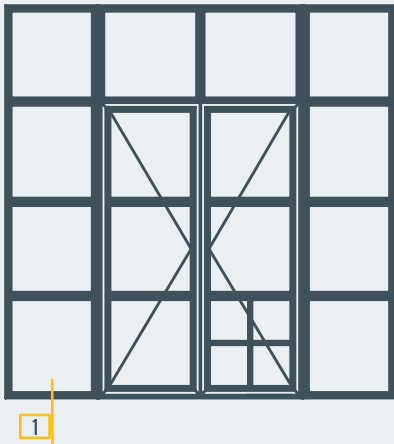
### Glazing

Having a wide range of glazing beads, S67 URBAN can satisfy every need for both double and triple glass infill, achieving, at the same time, high thermal efficiency.

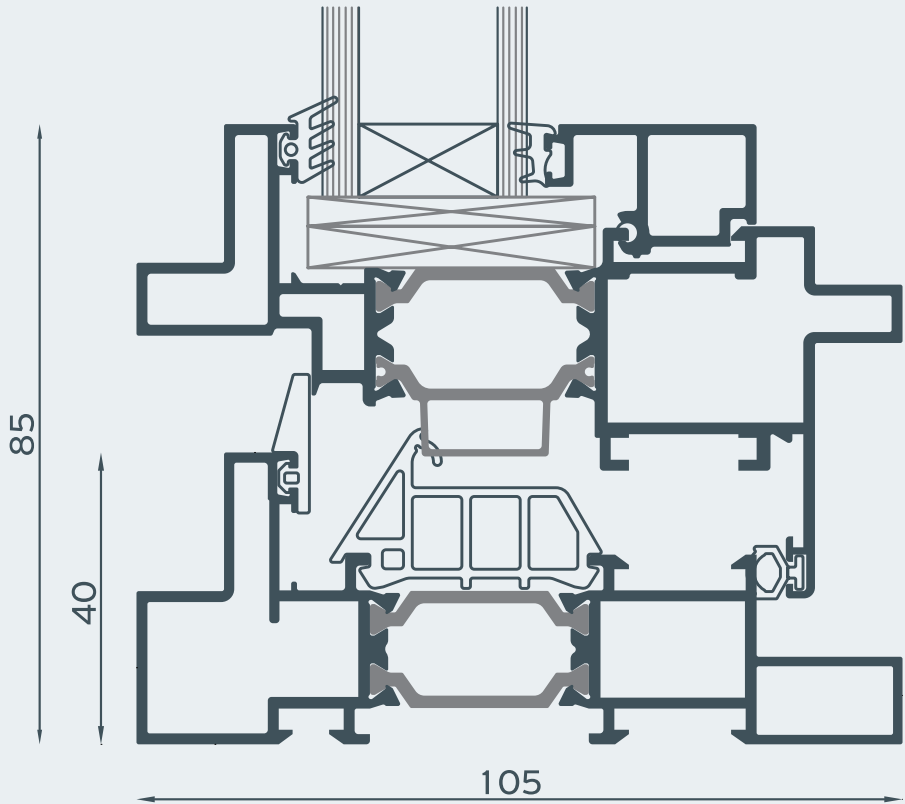
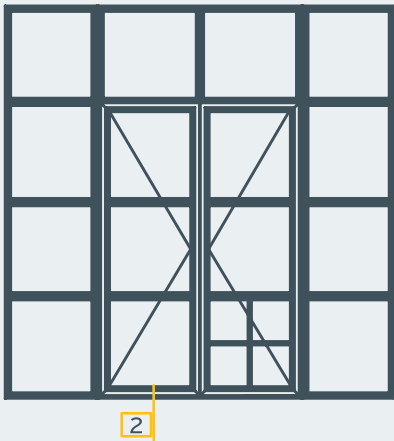


Sections

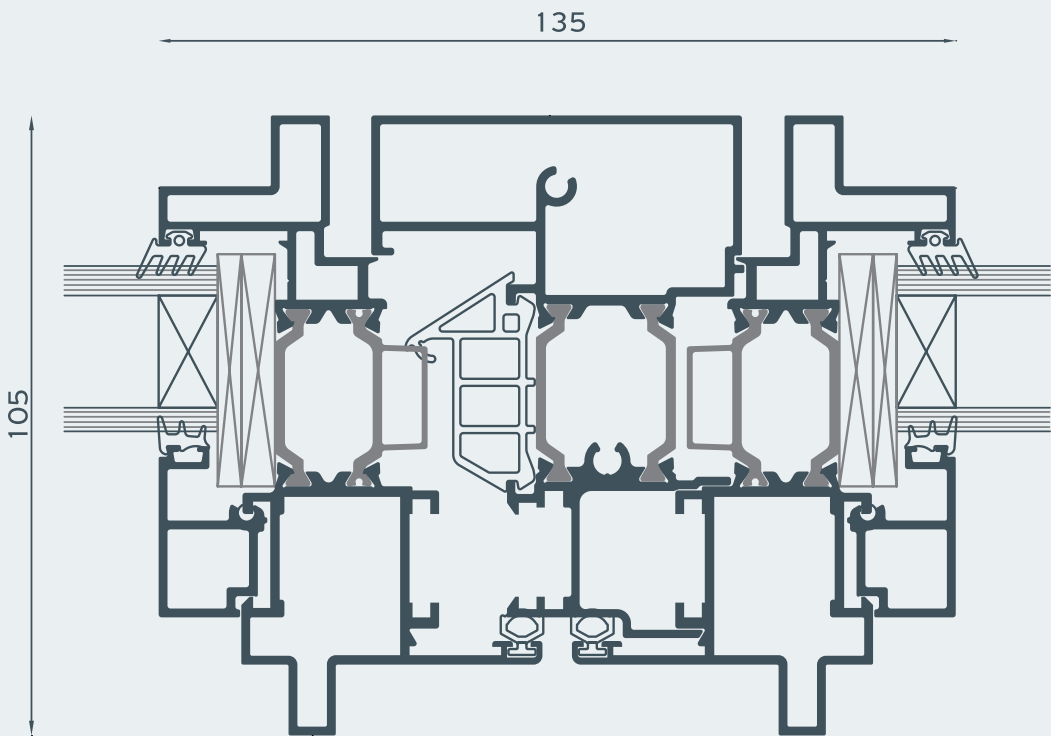
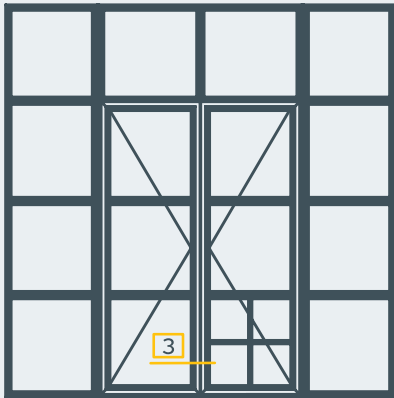
01



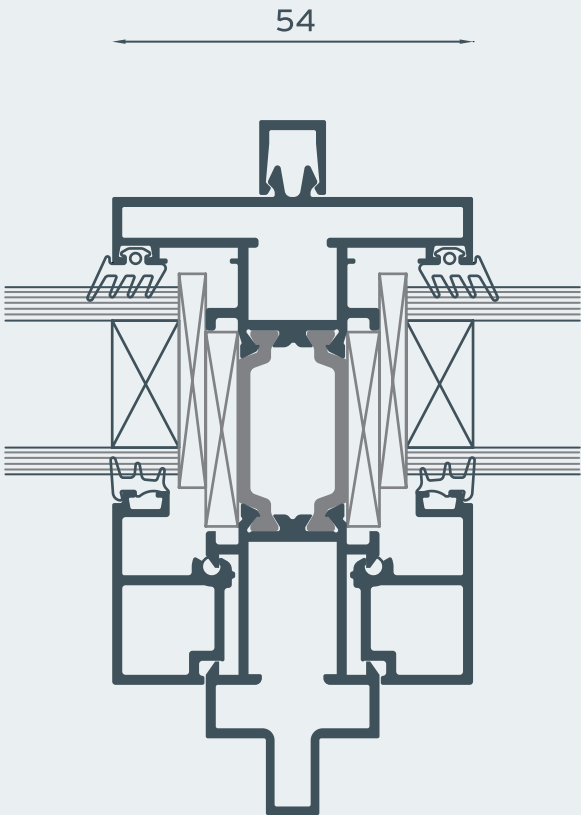
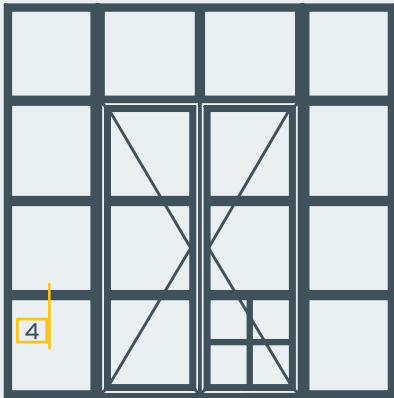
02



03

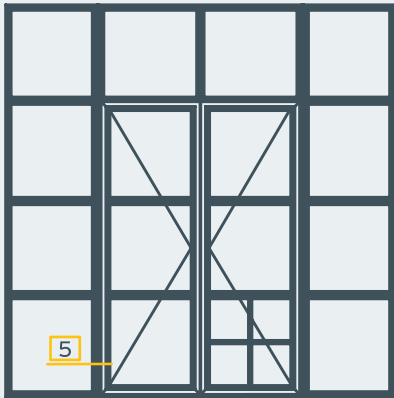


04

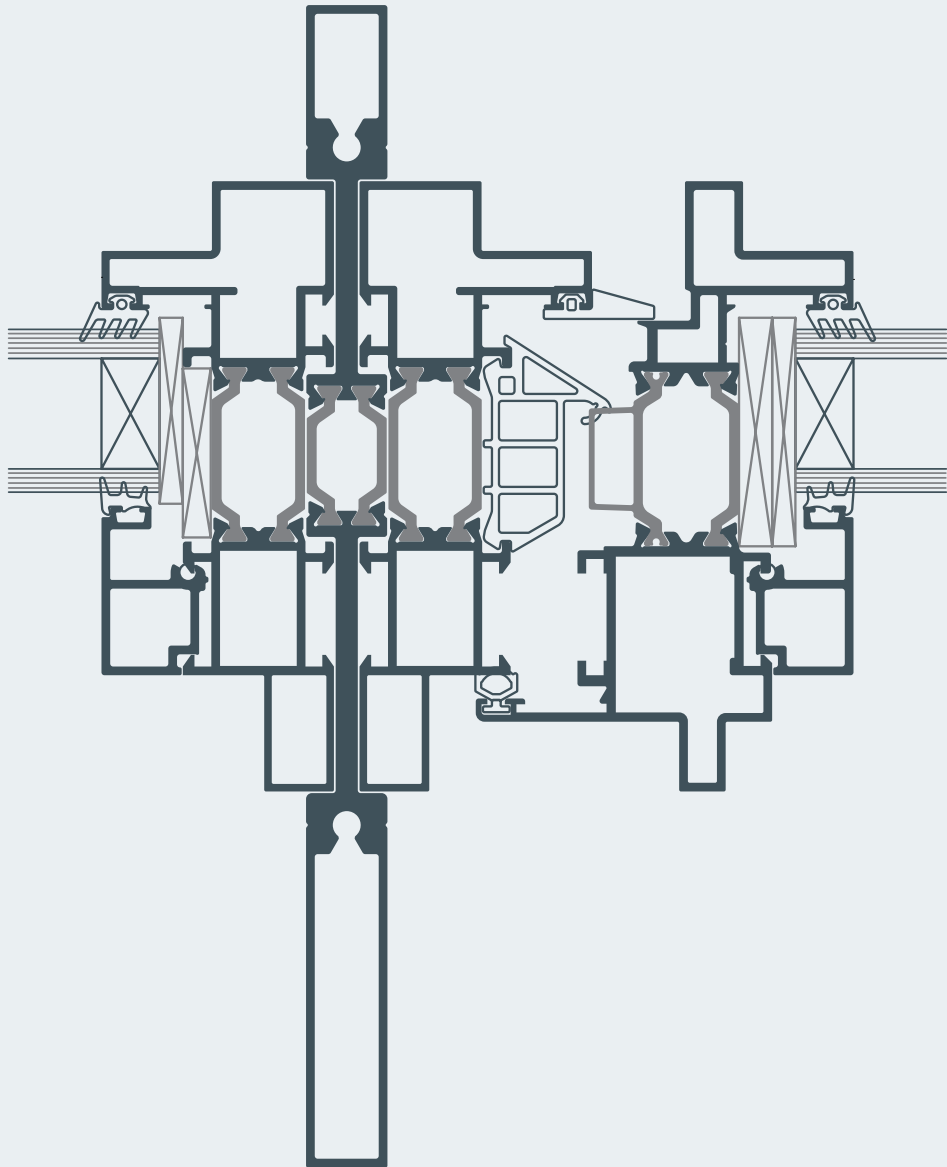




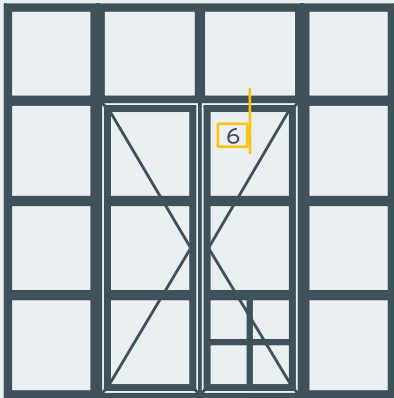
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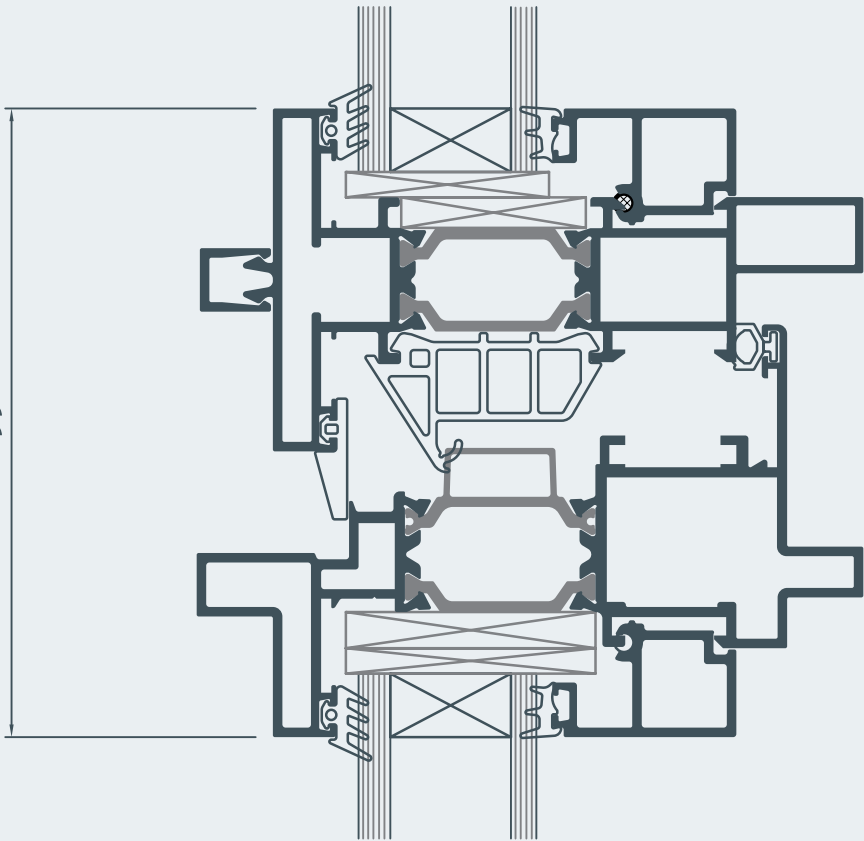
129,41

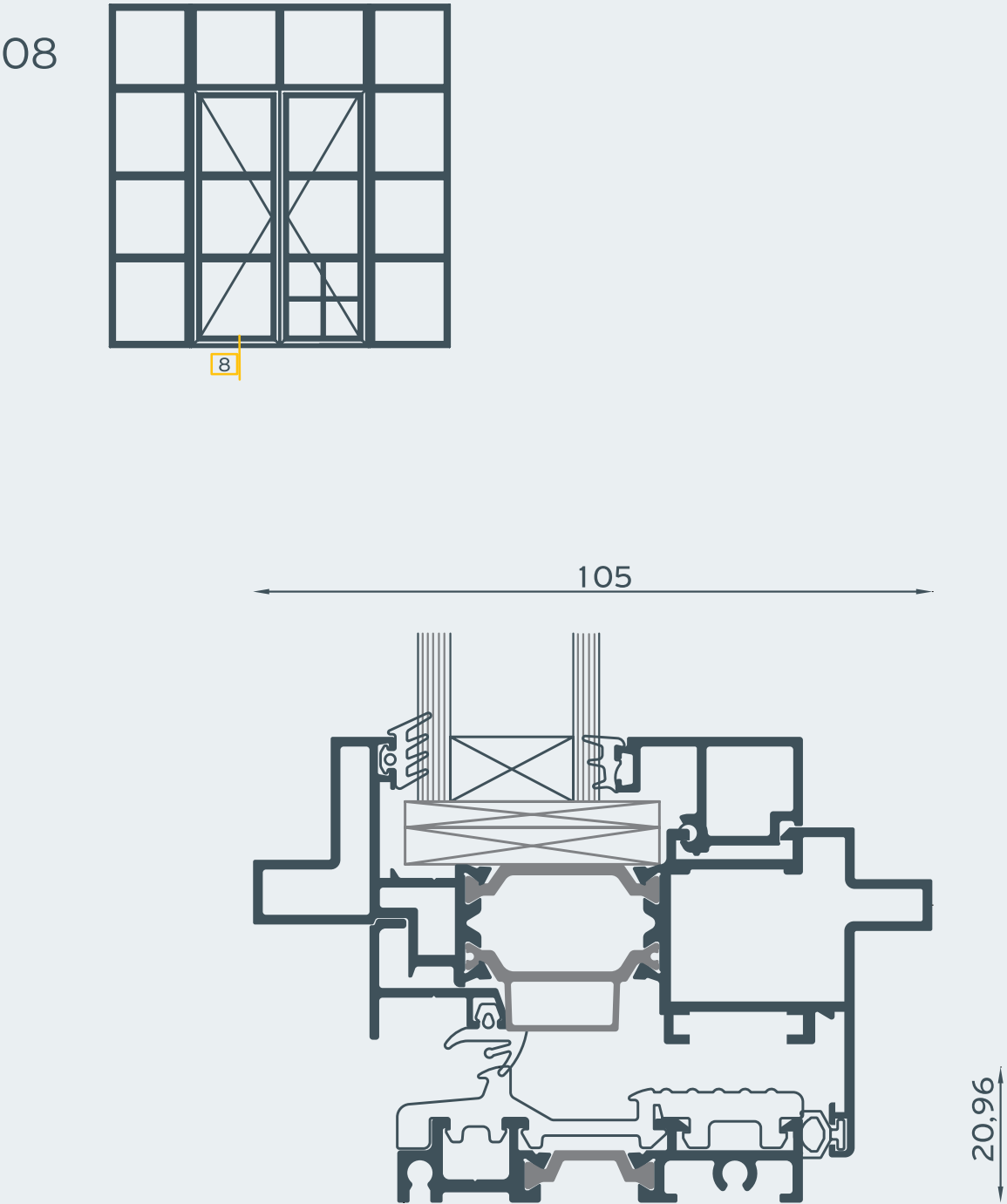
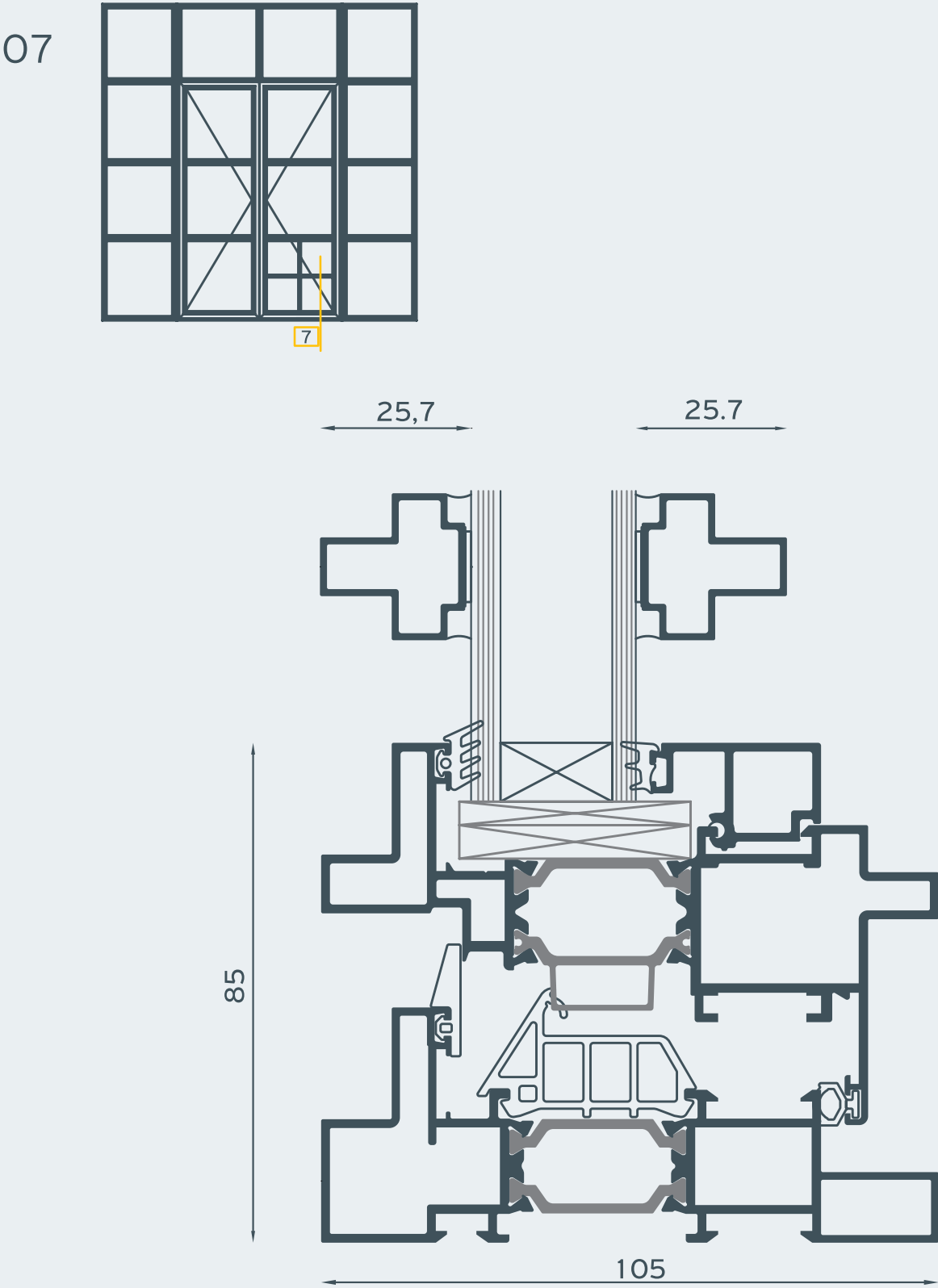


06



99



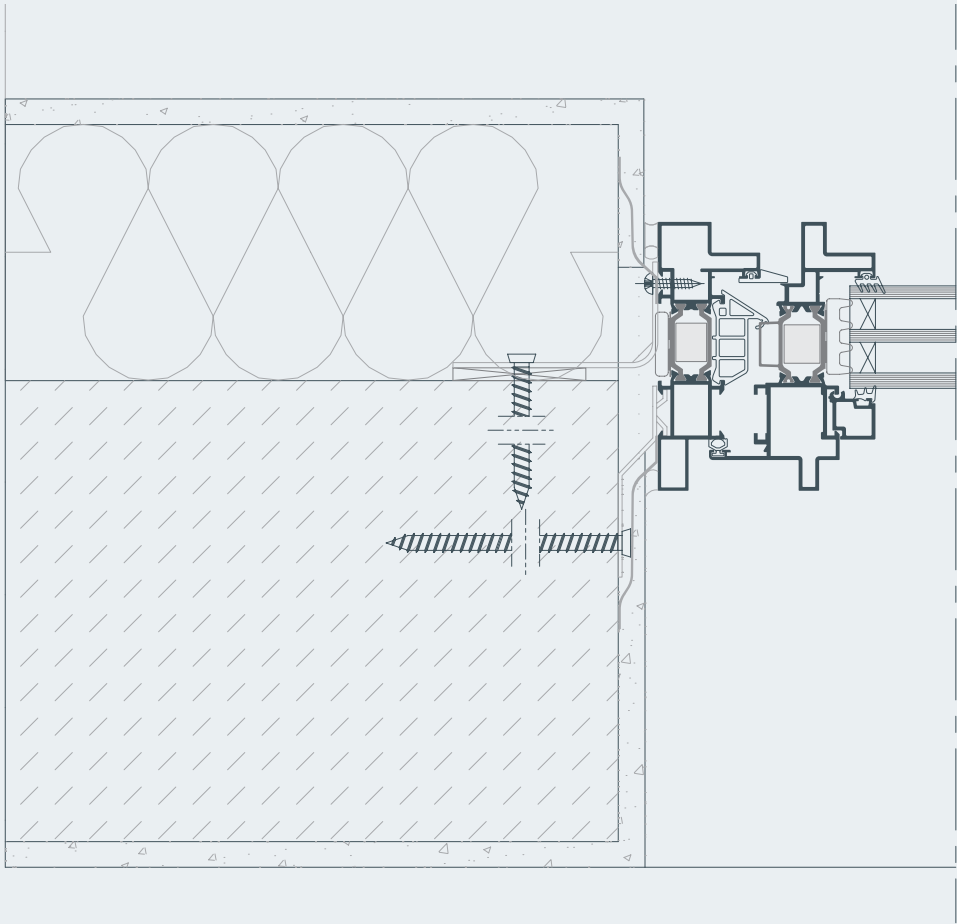




# Installation

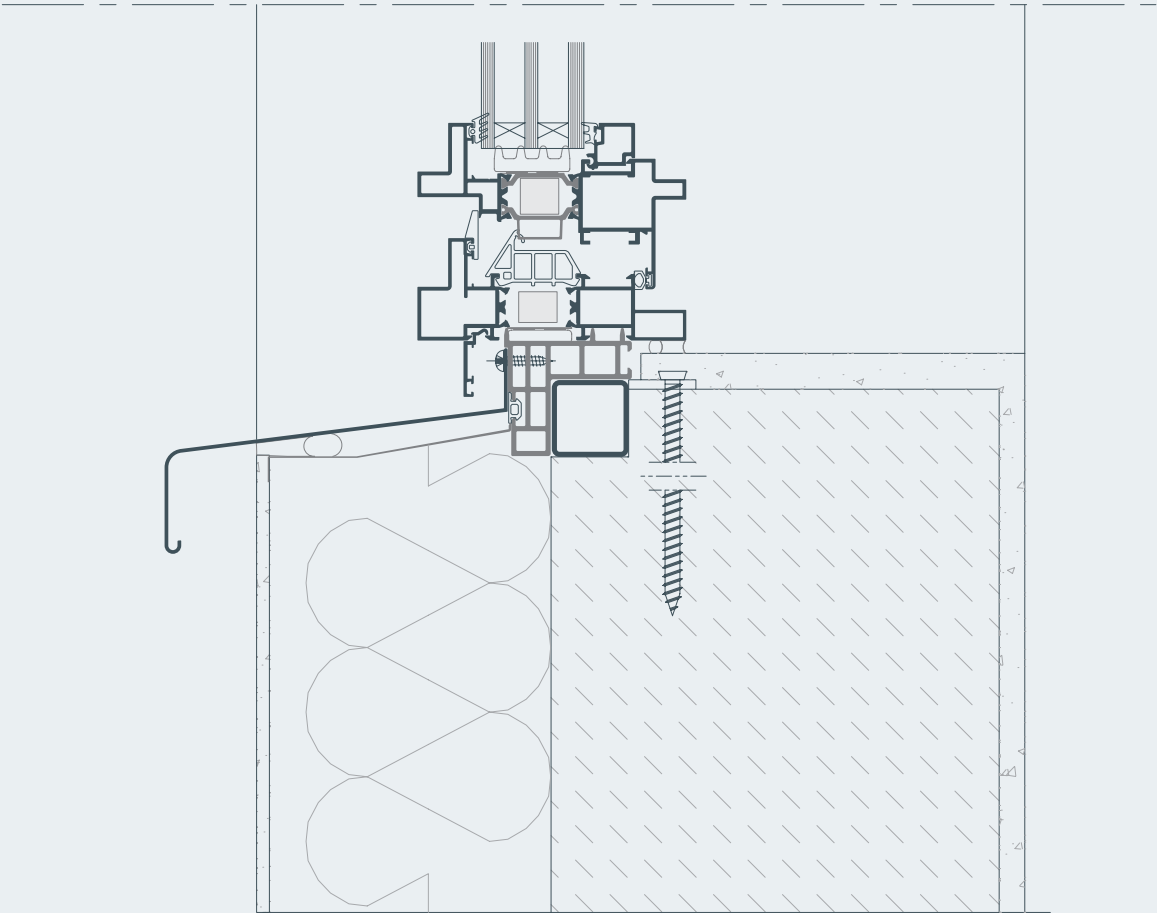
External insulation  
installation in the middle of the wall

Side section

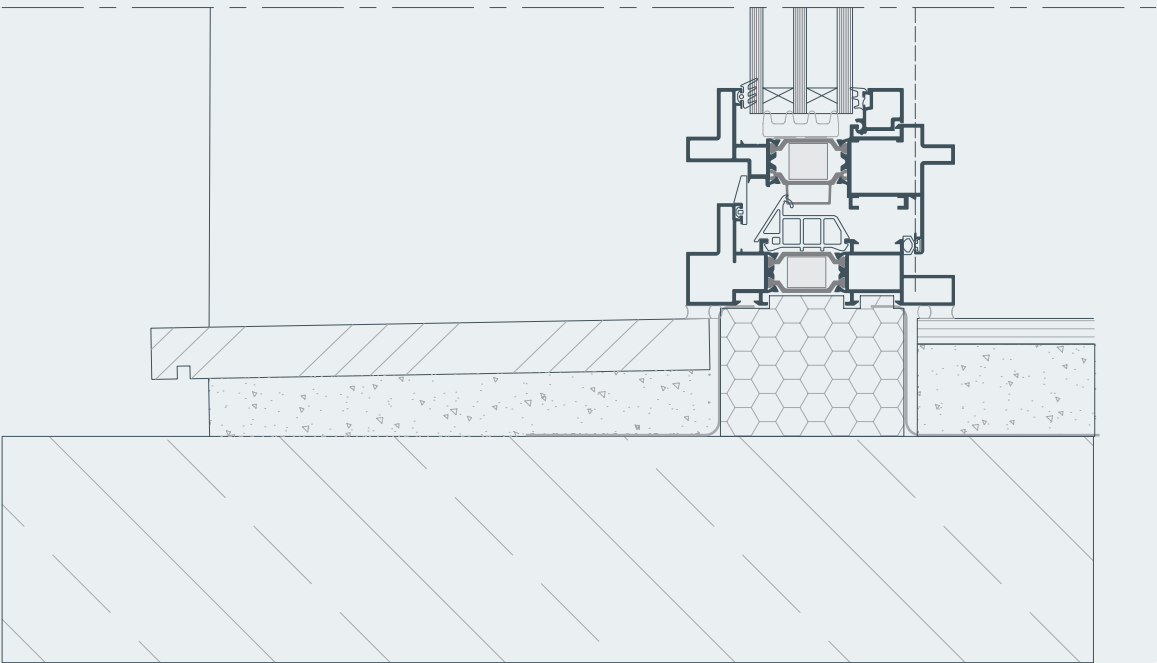


|  |                                    |
|--|------------------------------------|
|  | Air-Water Vapor Barrier Tape       |
|  | Backer Rod                         |
|  | Hybrid Sealant or Neutral Silicone |
|  | Polyurethane Foam                  |
|  | Steel frame anchor                 |
|  | window sill profile                |
|  | PVC sill profile                   |
|  | Aluminium profile                  |

## Bottom section A

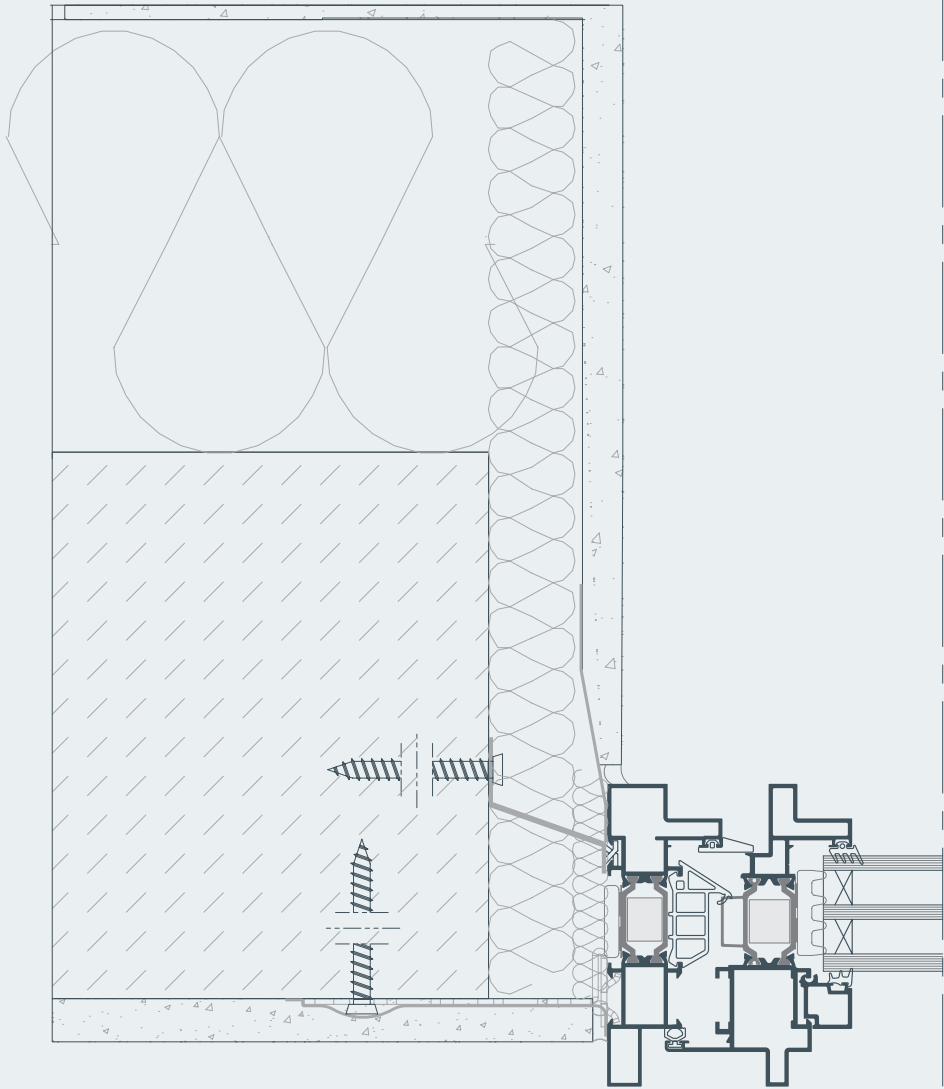


## Bottom section B



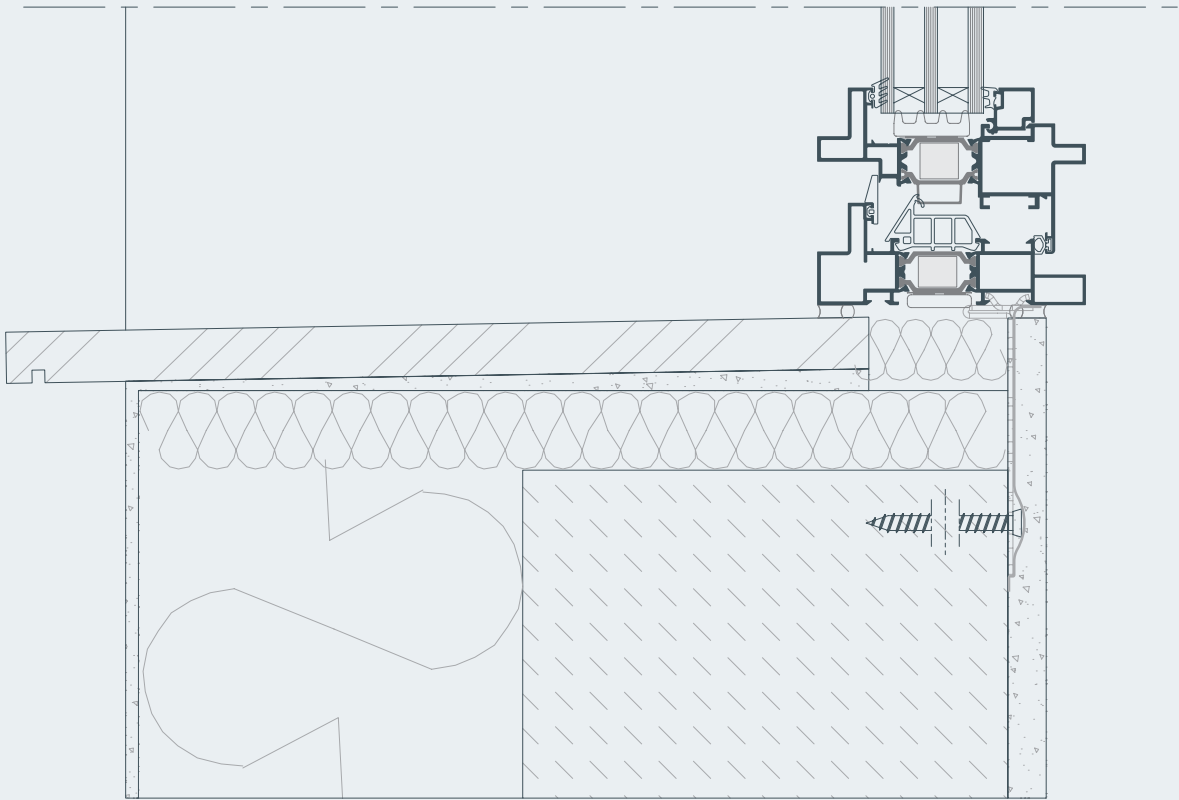
External insulation  
installation in the bottom of the wall

Side section

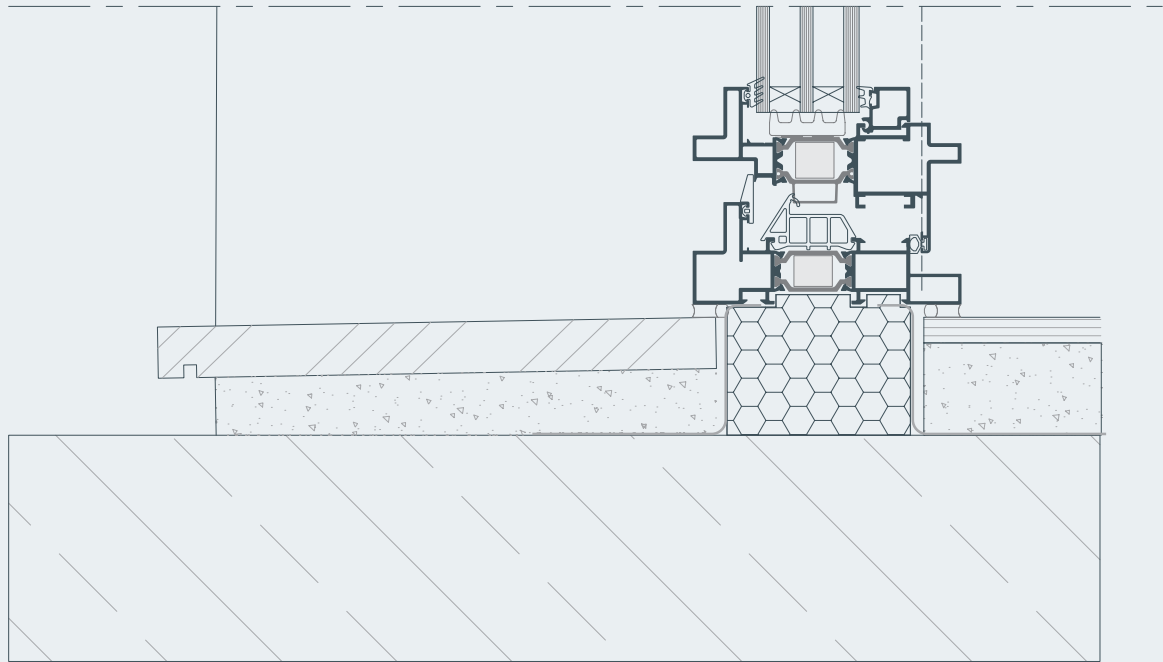


|  |                                    |
|--|------------------------------------|
|  | Air-Water Vapor Barrier Tape       |
|  | Backer Rod                         |
|  | Hybrid Sealant or Neutral Silicone |
|  | Polyurethane Foam                  |
|  | Steel frame anchor                 |
|  | window sill profile                |
|  | PVC sill profile                   |
|  | Aluminium profile                  |

Bottom section A



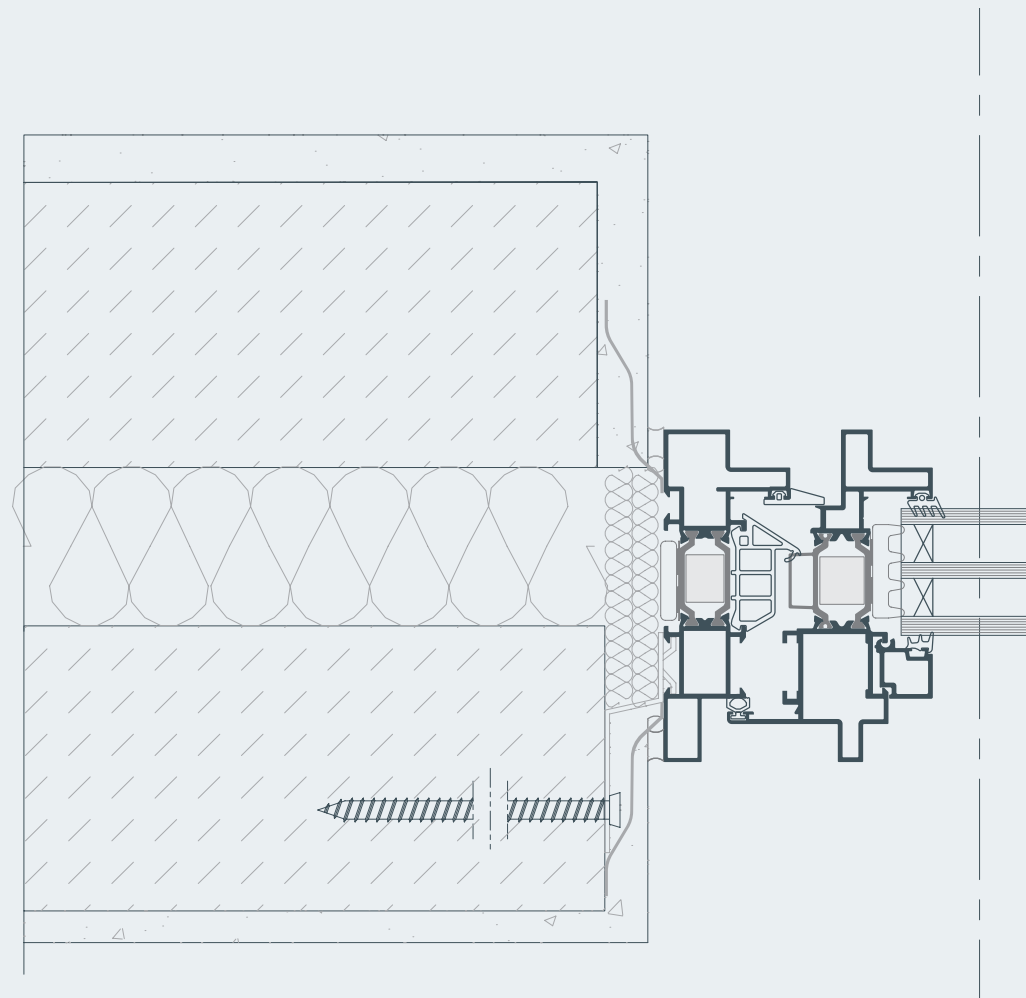
Bottom section B



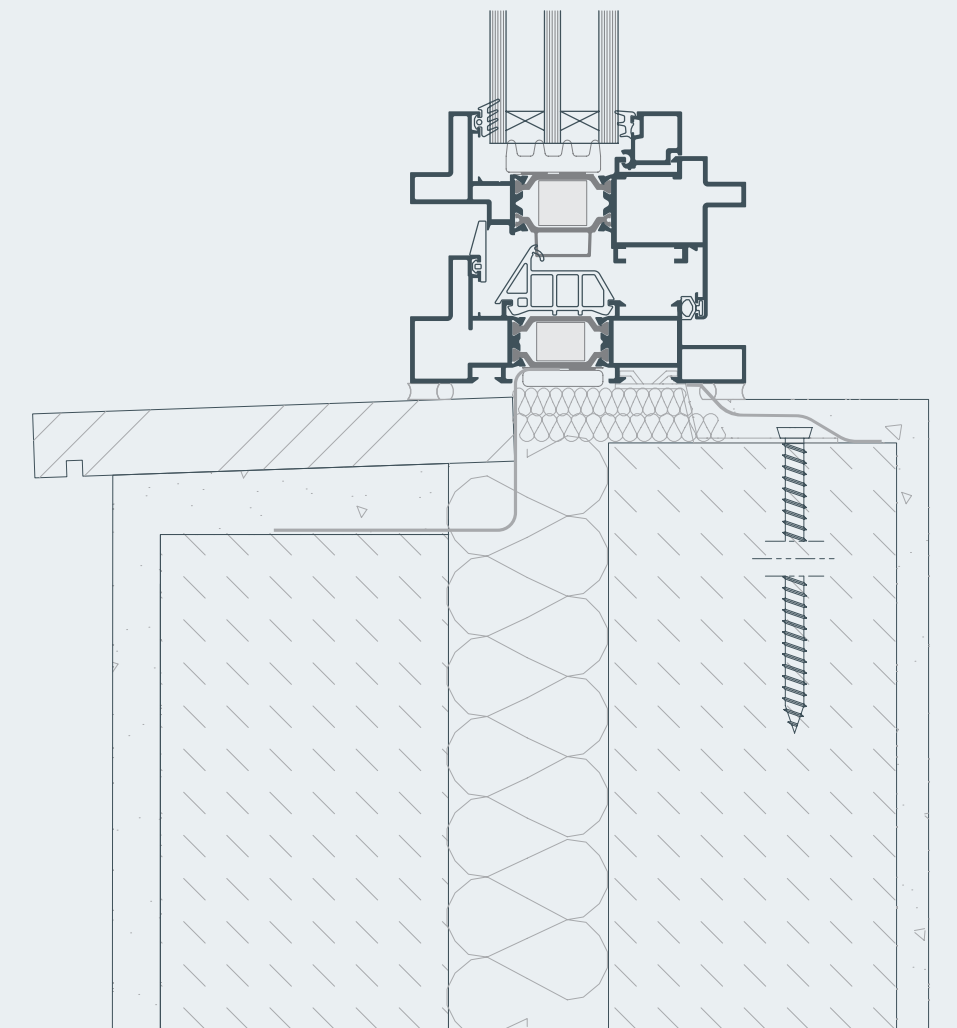


Side section

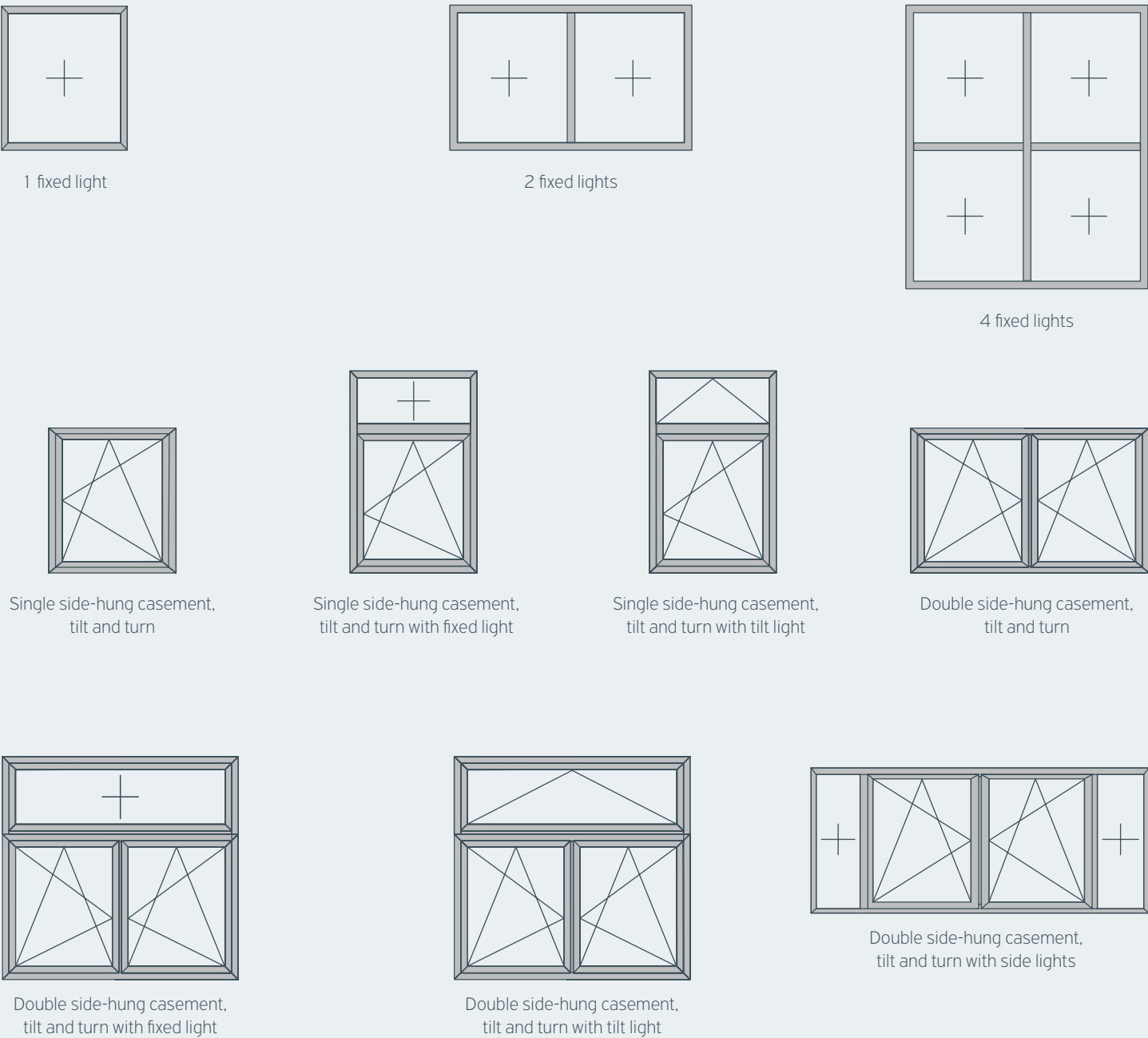
|                                                                                     |                                    |
|-------------------------------------------------------------------------------------|------------------------------------|
|  | Air-Water Vapor Barrier Tape       |
|  | Backer Rod                         |
|  | Hybrid Sealant or Neutral Silicone |
|  | Polyurethane Foam                  |
|  | Steel frame anchor                 |
|  | window sill profile                |
|  | PVC sill profile                   |
|  | Aluminium profile                  |



## Bottom section



# Applications



# Table of performance

| CERTIFICATION                                                                                                                                 | CLASSIFICATION |               |                |                |                |                |                |                |                |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
|  Water tightness<br>EN 12208                               | 1A<br>(0 Pa)   | 2A<br>(50 Pa) | 3A<br>(100 Pa) | 4A<br>(150 Pa) | 5A<br>(200 Pa) | 6A<br>(250 Pa) | 7A<br>(300 Pa) | 8A<br>(450 Pa) | 9A<br>(600 Pa) | E750<br>(750 Pa) |
|  Air permeability<br>EN 12207                              | 1              |               | 2              |                | 3              |                | 4              |                | 5              |                  |
|  Wind load resistance,<br>max. test pressure<br>EN 12210   | 1<br>(400 Pa)  |               | 2<br>(800 Pa)  |                | 3<br>(1200 Pa) |                | 4<br>(1600 Pa) |                | 5<br>(2000 Pa) |                  |
|  Wind load resistance<br>to frontal deflection<br>EN 12210 | A<br>(≤1/150)  |               | B<br>(≤1/200)  |                | C<br>(≤1/300)  |                |                |                |                |                  |

| THERMAL PERFORMANCE | Dimensions in mm<br>(W x H) | U <sub>w</sub> in W/m²K<br>(U <sub>g</sub> =0,6) | U <sub>w</sub> in W/m²K<br>(U <sub>g</sub> =0,8) | U <sub>w</sub> in W/m²K<br>(U <sub>g</sub> =1,0) |
|---------------------|-----------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| 1 sash Hi           | 1000 x 2200                 | 1,06                                             | 1,19                                             | 1,64                                             |
| 2 sashes Hi         | 1500 x 2200                 | 1,14                                             | 1,29                                             | 1,67                                             |
| 1 sash Standard     | 1000 x 2200                 | 1,21                                             | 1,34                                             | 1,78                                             |
| 2 sashes Standard   | 1500 x 2200                 | 1,31                                             | 1,46                                             | 1,84                                             |

**ALUMIL  
HEAD OFFICES  
& SHOWROOM - THESSALONIKI**

Gogousi 8, Efkarpia  
Thessaloniki - GR 56429  
Tel.: +30 2313 011000  
Fax: +30 2310 692473  
E-mail: [info@alumil.com](mailto:info@alumil.com)

**ALUMIL  
HEADQUARTERS**

Kilkis Industrial Area  
Kilkis - GR 61100  
Tel.: +30 23410 79300  
Fax: +30 23410 71988  
Email: [info@alumil.com](mailto:info@alumil.com)



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