

The Alumil logo is positioned on a yellow diagonal band. It features the word "Alumil" in a bold, dark grey sans-serif font. A small white square is placed above the letter 'i'.The Alumil SMARTIA M7 logo is located in the bottom left corner. It consists of the word "Alumil" in a bold, dark grey sans-serif font, followed by a yellow chevron symbol pointing to the right. To the right of the chevron is the word "SMARTIA" in a dark grey sans-serif font, and below it is the text "M7" in a smaller dark grey sans-serif font.

# Contents

*“To see beauty  
is to see light”*

Victor Hugo

## Upgrading the experience of transparent architecture

Smartia M7 is a, value for money, complete curtain wall system with high energy efficiency, which offers wide range of options in terms of aesthetics and contemporary architecture.

- / Available in various design like standard pressure plates, structural glazing and linear solutions.
- / Interior/exterior visible width: 50mm.
- / Wide range of mullion and transom depths.
- / All kinds of opening types can be seamlessly integrated such as top hung window, parallel opening window, tilt and turn window, concealed vent window, entrance door.
- / Attention in specified solutions concerning heavy glass panes up to 700kg.
- / Certified with the highest level of antiburglar resistance (RC4).
- / High energy efficiency ( $U_f$  from 1 up to 2,3 W/m<sup>2</sup>K).

 SMARTIA  
M7

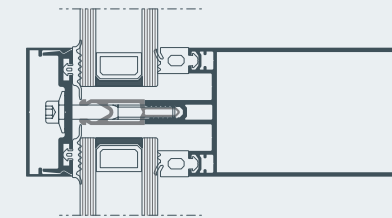
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# System capabilities

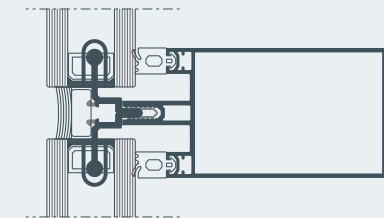
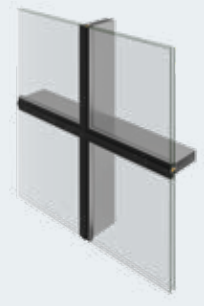
## STANDARD

Glazing infill (4-54) mm



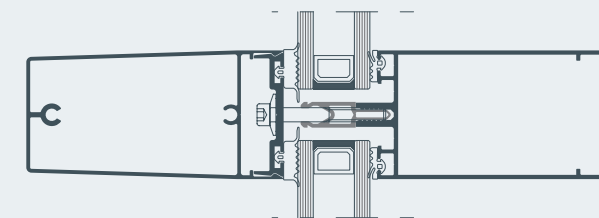
## STRUCTURAL

Glazing infill (32-38) mm



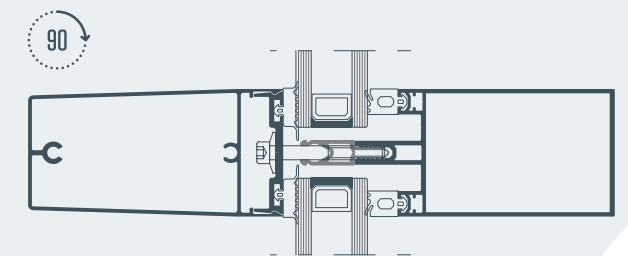
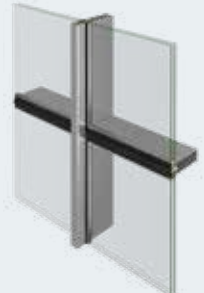
## HORIZONTAL LINEAR

Glazing infill (4-28) mm



## VERTICAL LINEAR

Glazing infill (4-28) mm



# Technical characteristics



- / 50mm visible width of mullions and transoms.
- / High thermal insulation up to  $U_f=1 \text{ W/m}^2\text{K}$ .
- / Options of linear (horizontally or vertical) and structural constructions using the same mullions and transoms.
- / Wide range of mullions and transoms depths:  
28-266 mm for mullions  
16,5-266 mm for transoms
- / Glass thickness 4-54 mm.
- / Special isolators and EPDM gaskets for maximum thermal and sound insulation.
- / Incorporates ALUMIL M5600 solar shading system.
- / Compatible with all Alumil opening systems (top hung window, parallel opening window, tilt and turn window, concealed vent window) as well as Alumil entrance doors.





## Aesthetics

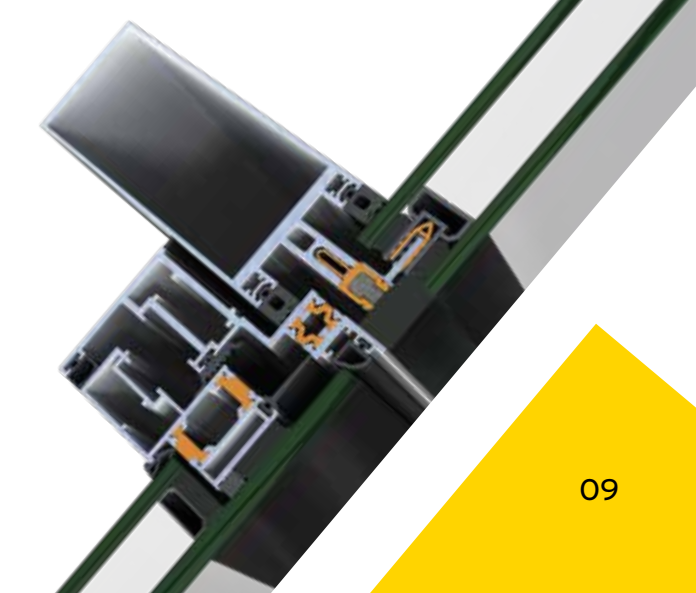
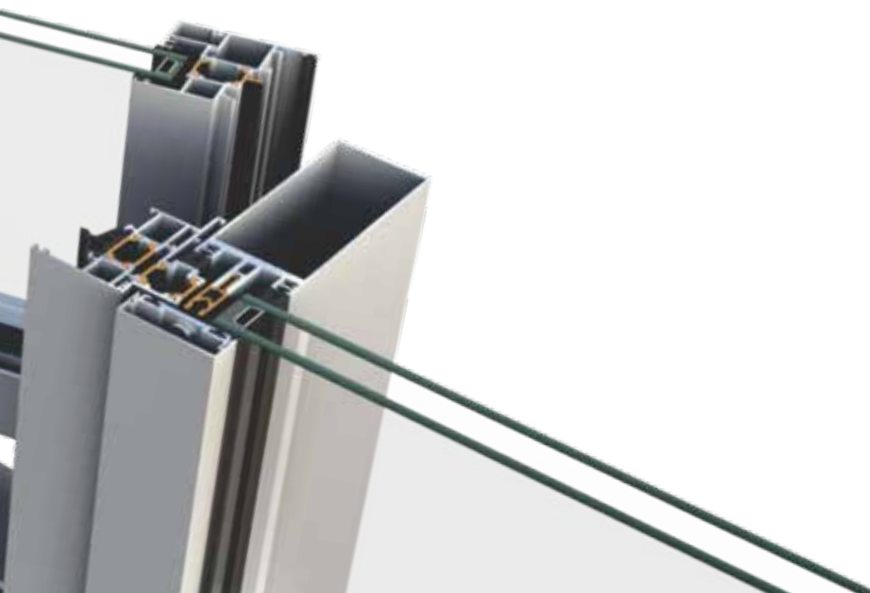
Smartia M7 is a curtain wall system that offers unlimited design freedom by using different types of external caps. The 4 different types of glazing variant (standard pressure plate, linear horizontal and vertical, structural) combined with variety of infills (glass, insulating panels) can meet all contemporary architectural needs.

## Typologies

Smartia M7 is fully adjustable with all types of openings such as top hung window, parallel opening, tilt and turn, concealed vent and all types of entrance doors.

## Construction

Wide range of mullions able to meet with the most demanding building standards. Steel reinforcements can be integrated into mullions to achieve maximum static sufficiency.

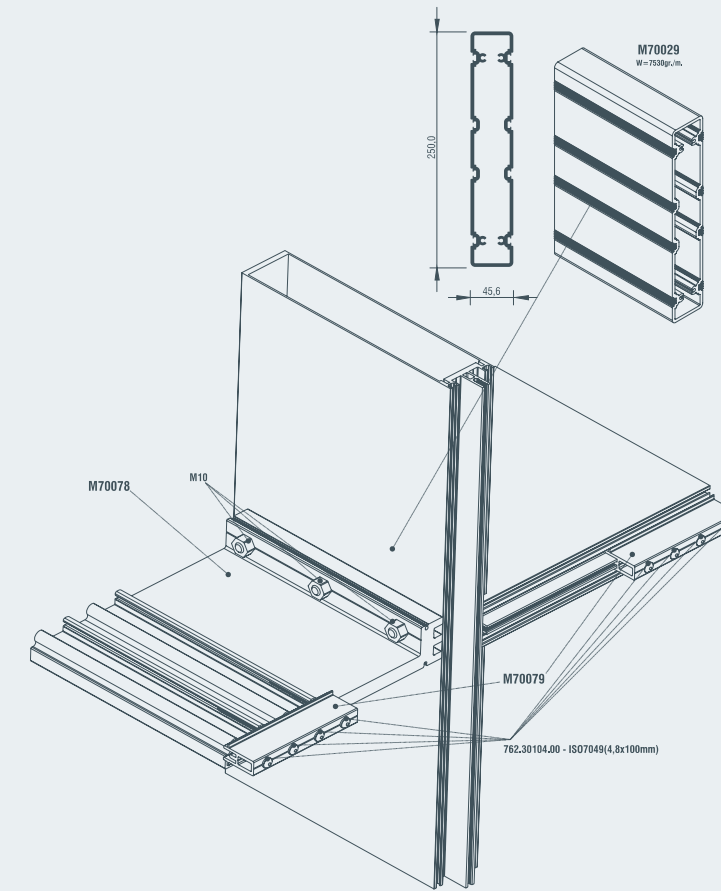


# Points of excellence



SMARTIA M7 is a curtain wall system that can offer innovative solutions in terms of big, heavy and high insulated glazing panes. M7 supports glazing panes up to 700 kg with the use of special profiles.

In this way, M7 offers the freedom to go beyond to normal matrix grid and minimize visible aluminium.



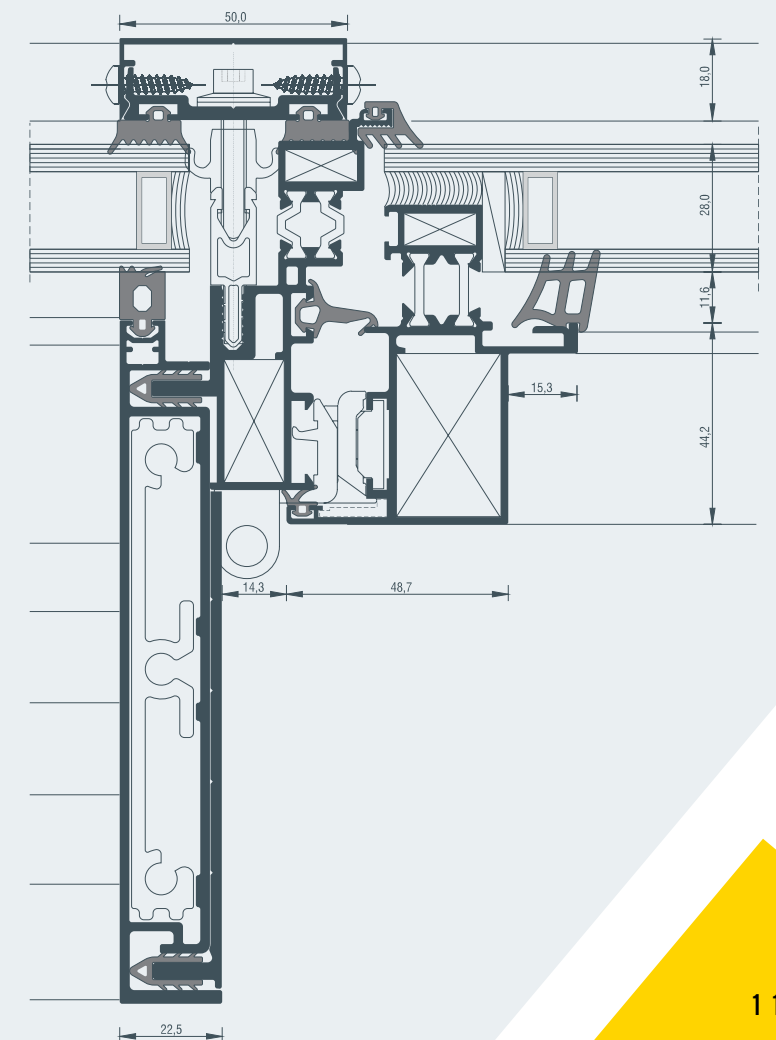
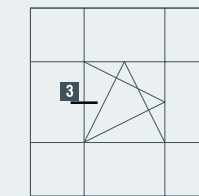
SMARTIA M7 is a fully certified system in terms of thermal insulation, acoustic performance, air/water tightness, and wind load resistance.

Furthermore, SMARTIA M7 is certified in RC4 concerning Burglar Resistance that makes it an ideal system for big scale projects with high standards of safety.

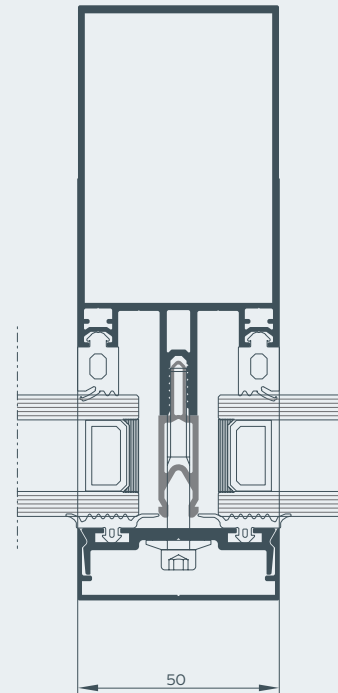


Smartia M7 is a curtain wall system that offers innovative solution in terms of concealed opening vents.

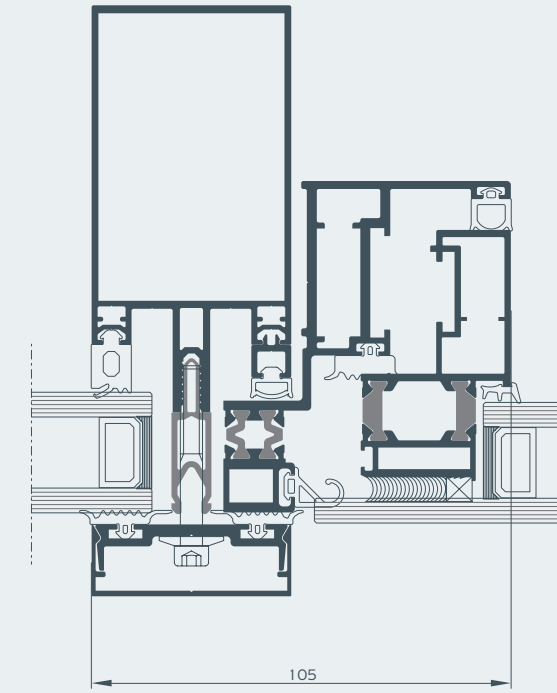
With the use of split mullions we can preserve the external appearance of façade by integrating frame profile into split mullions.



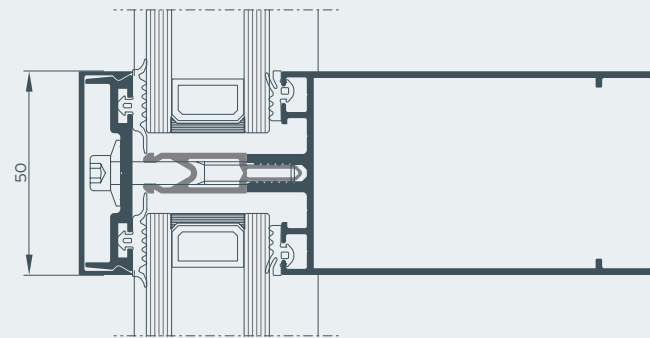
Standard mullion



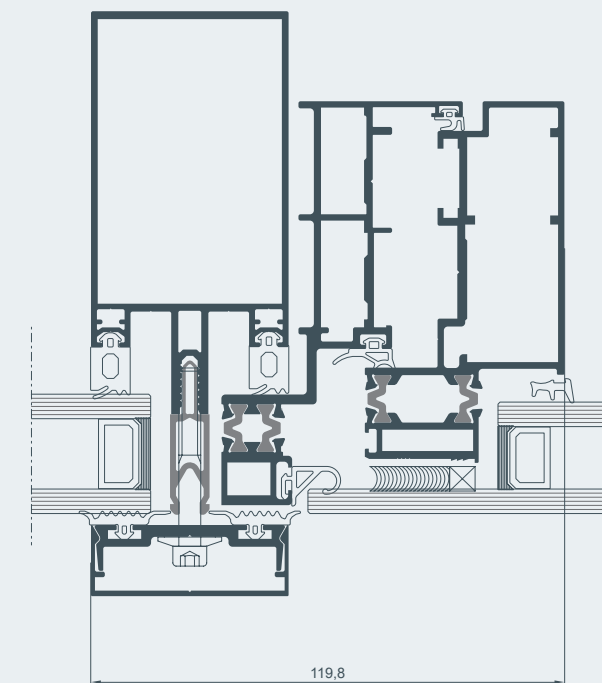
Standard projected window



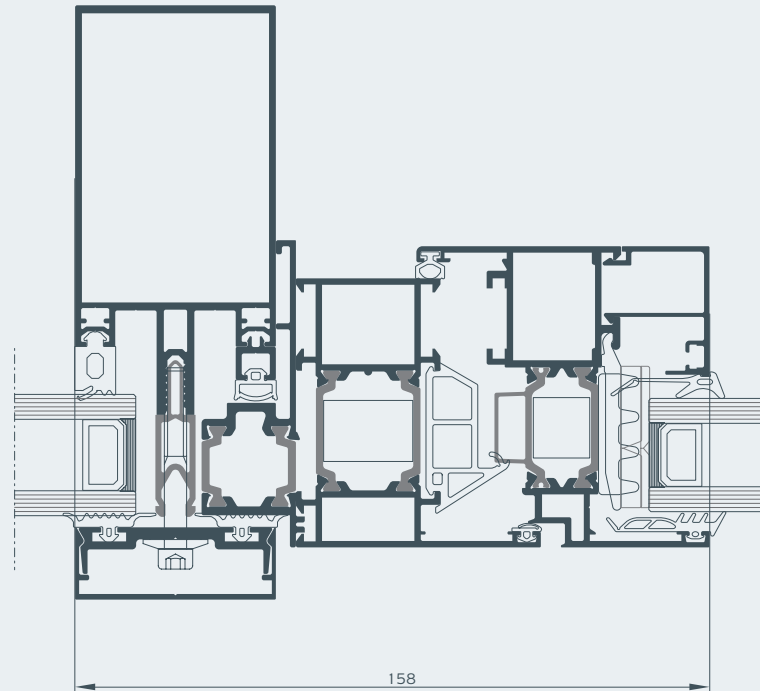
Standard transom



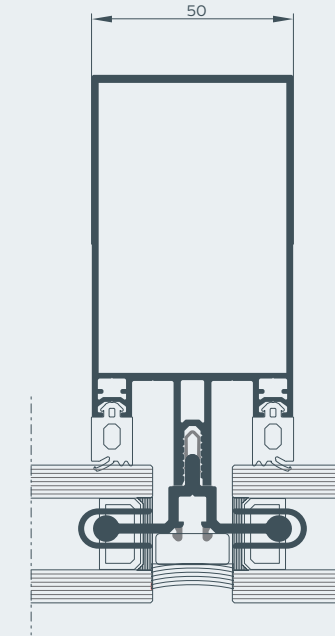
Standard projected parallel window



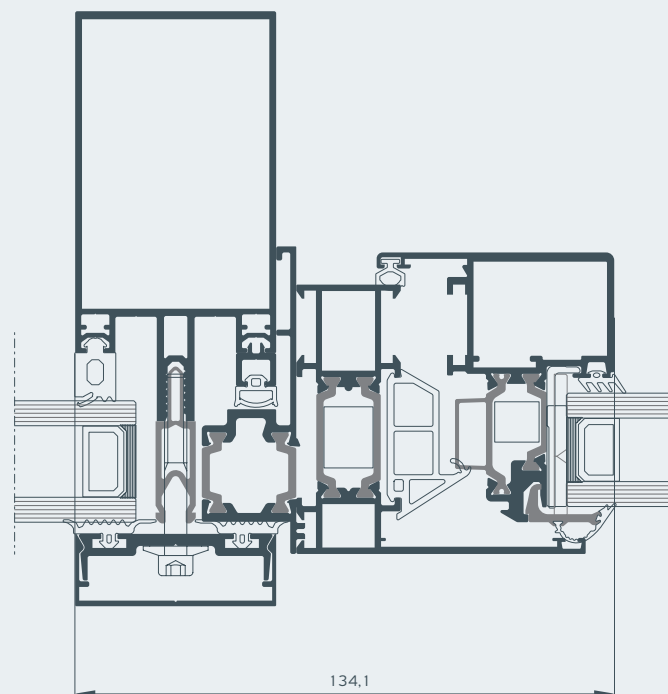
Standard tilt and turn window



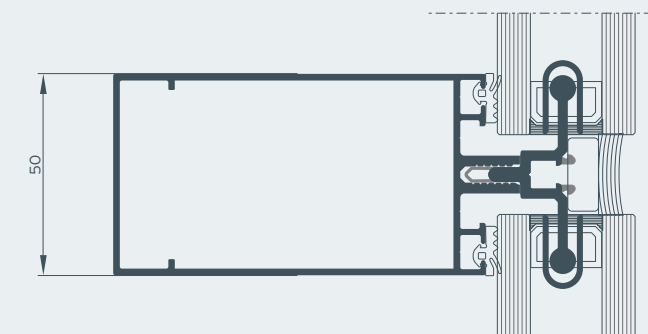
Structural mullion



Standard concealed window

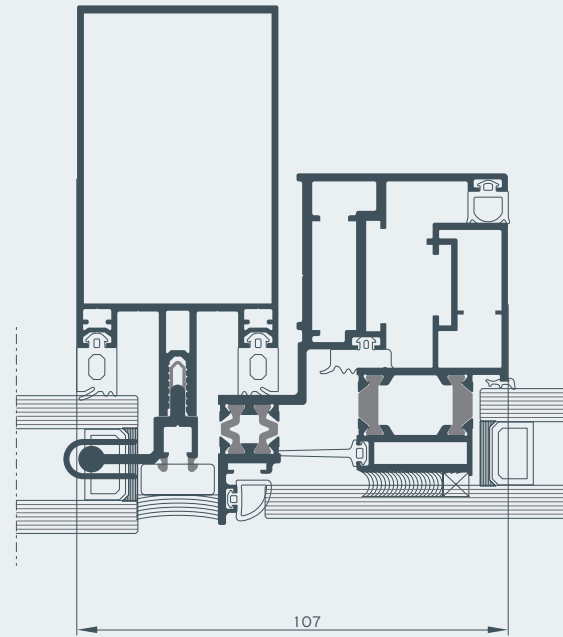


Structural transom

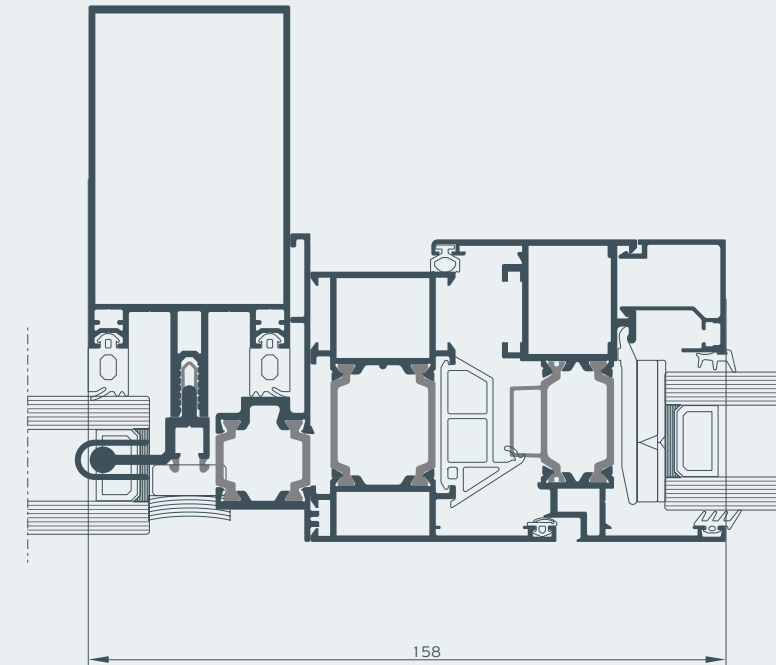




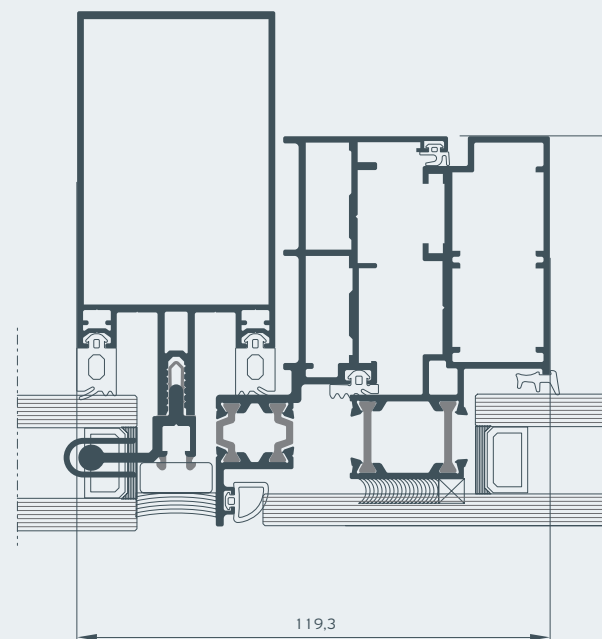
Structural projected window



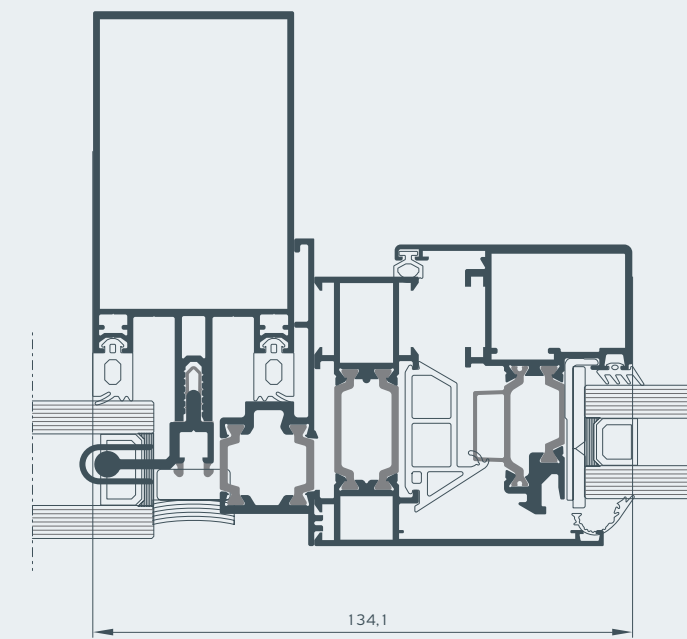
Structural tilt and turn window



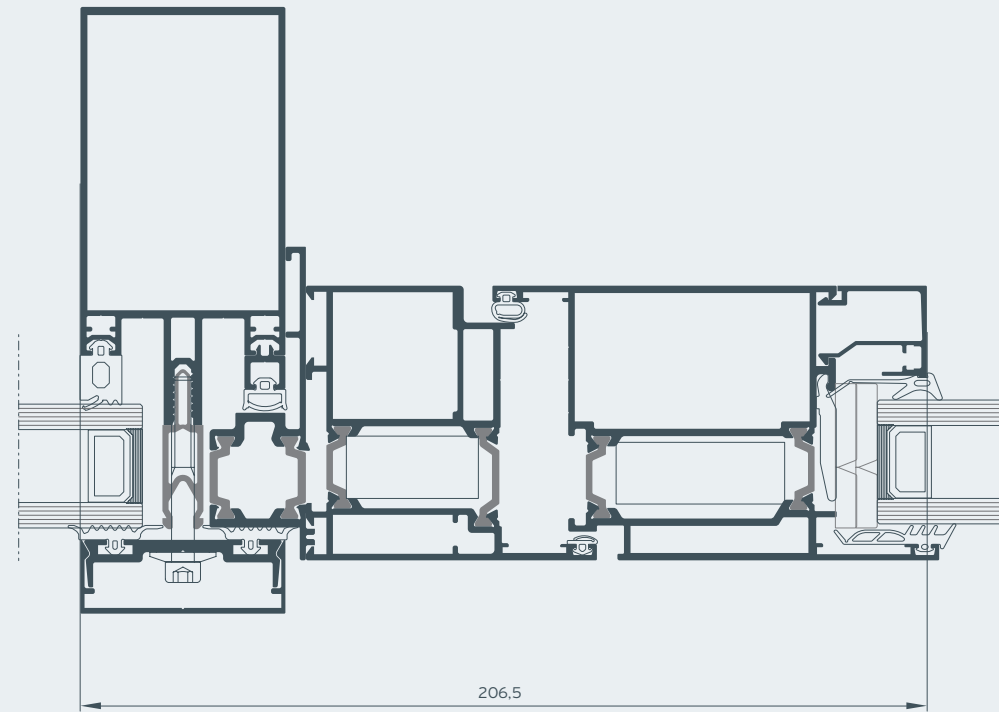
Structural projected parallel window



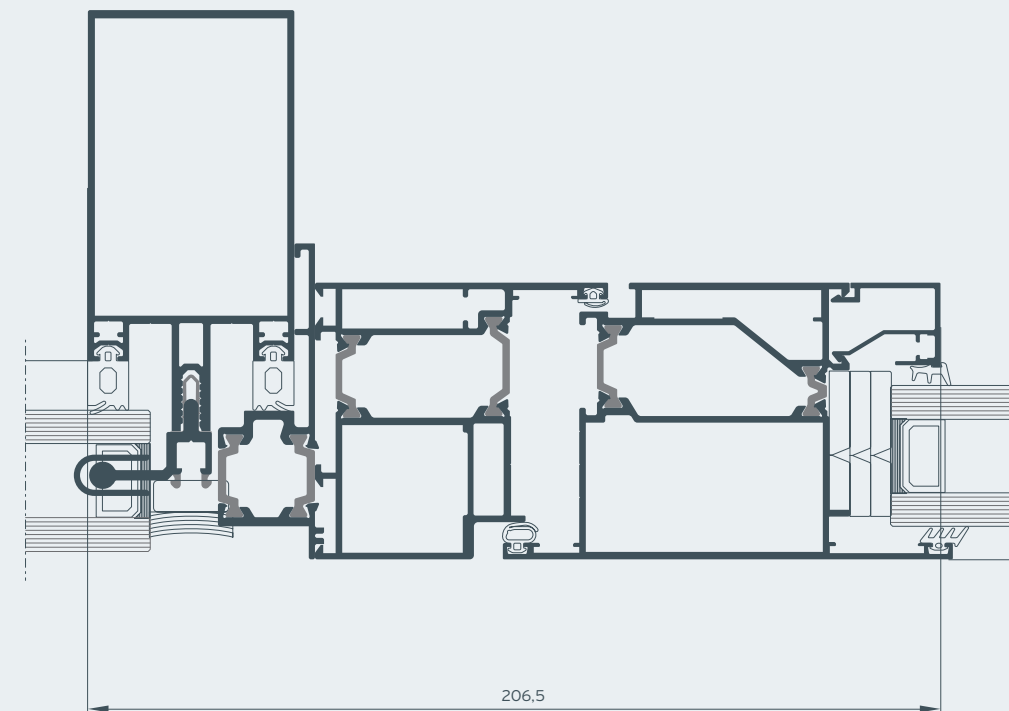
Structural projected parallel window



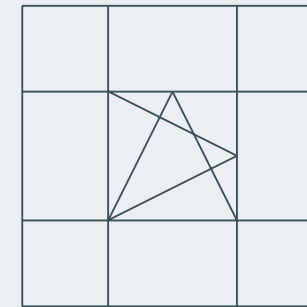
Standard entrance door



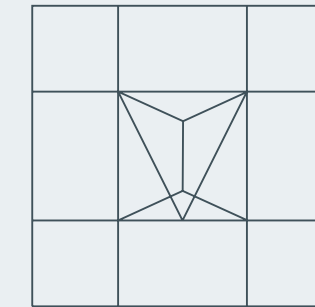
Structural entrance door



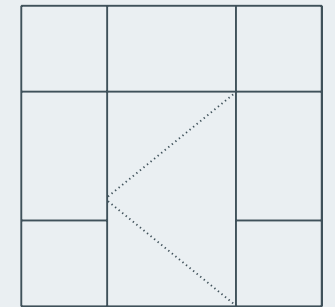
# Applications



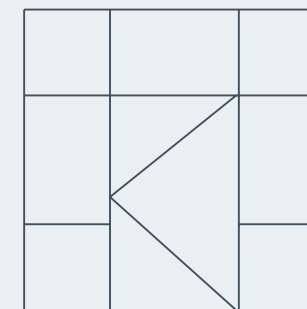
Tilt and turn vent window  
Tilt and turn vent conceal window



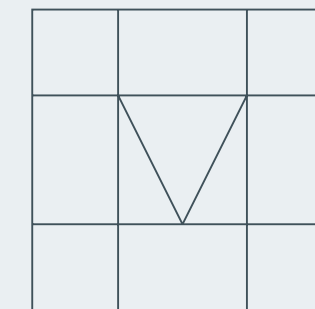
Parallel and projected  
outward window



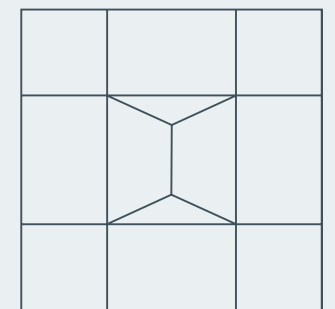
Hinged opening outward door



Hinged opening inward door








Projected outward window



Parallel projected  
outward window



## Table of performance

CERTIFICATION	CLASSIFICATION				
 Water tightness EN 12154	R4 (150 Pa)	R5 (300 Pa)	R6 (450 Pa)	R7 (600 Pa)	<b>RE1200</b> (1200 Pa)
 Air permeability EN 12152	A1 (150 Pa)	A2 (300 Pa)	A3 (450 Pa)	A4 (600 Pa)	<b>AE</b> (>600 Pa)
 Wind load resistance, max. test pressure EN 13116	<b>DESIGN LOAD</b> ±2000 Pa		<b>SAFETY LOAD</b> ±2000 Pa		
 Burglar Resistance EN 1627 -1630	RC 2		<b>RC 3</b>	RC 4	
 Thermal insulation EN12631	U <sub>i</sub> down to 1 W/m <sup>2</sup> K depending on the profile combinations and glazing thickness				

ALUMIL branded handles are manufactured by world-class specialists to ensure top quality and flawless operation. Standard series made of aluminium are available in various standard colors.





**Green Plaza** Athens, Greece



**Miraggio Thermal Spa Resort**  
Halkidiki, Greece



**Astana Congress Center** Kazakhstan



**Al Reem Tower** Abu Dhabi, UAE



**Nana Princess Hotel**  
Chersonissos, Crete



**Al Jawhara Tower** Jeddah, Saudi Arabia

## Reference Projects



**Sky Tower** Ankara, Turkey

**ALUMIL  
MIDDLE EAST DMCC**

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