



**Alumil**

**Alumil**  **SUPREME**  
**S700**

# Contents



## The new liaison between transparent architecture and energy efficiency

The system SUPREME S700 represents the new generation of ALUMIL's Lift & Slide systems, for wide spans and frames with impressive characteristics. The system complies with the modern trends of "transparent" architecture, combining high thermal insulation, safety and modern design.

 **SUPREME**  
S700

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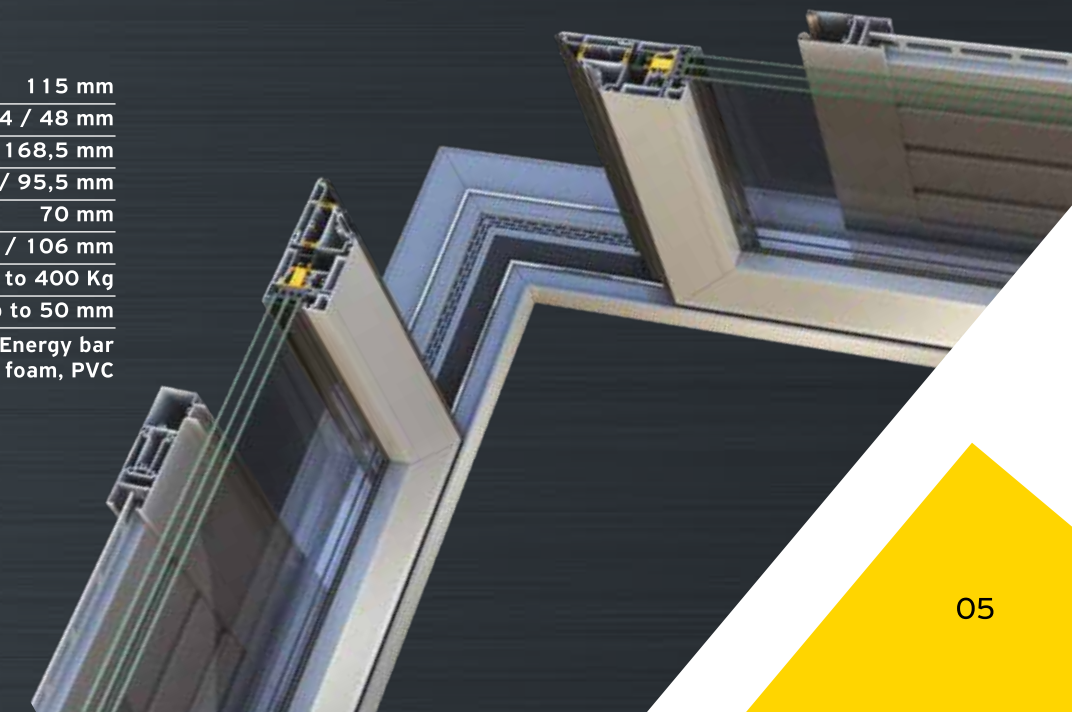


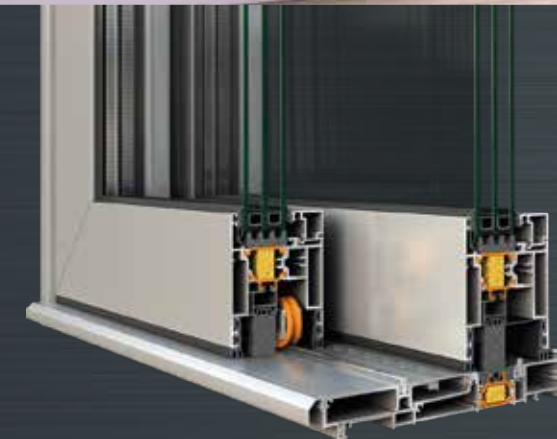
The top-ranked lifting sliding system S700 satisfies even the most demanding requirements by offering:

- / High energy efficiency.
- / Minimal and innovative design.
- / Excellent watertightness and air permeability performances.
- / Top functionality even for the most heavy-duty constructions.
- / Pioneering solutions for impressive constructions.

### Technical Characteristics

Visible aluminium face width	115 mm
Frame height	24 / 48 mm
Frame width	168,5 mm
Sash height	84 / 95,5 mm
Sash width	70 mm
Interlocking profile width	47 / 106 mm
Sash weight	up to 400 Kg
Glazing	up to 50 mm
Thermal insulation	Polyamides, ALUMIL Energy bar Insulation foam, PVC





SUPREME S700 is the perfect combination of elegance and functionality satisfying even the most demanding requirements. It offers maximum visibility and sense of freedom by using a sash of only 84 mm height. Alternatively, for more heavy-duty constructions the 95.5 mm height sash can be utilized.

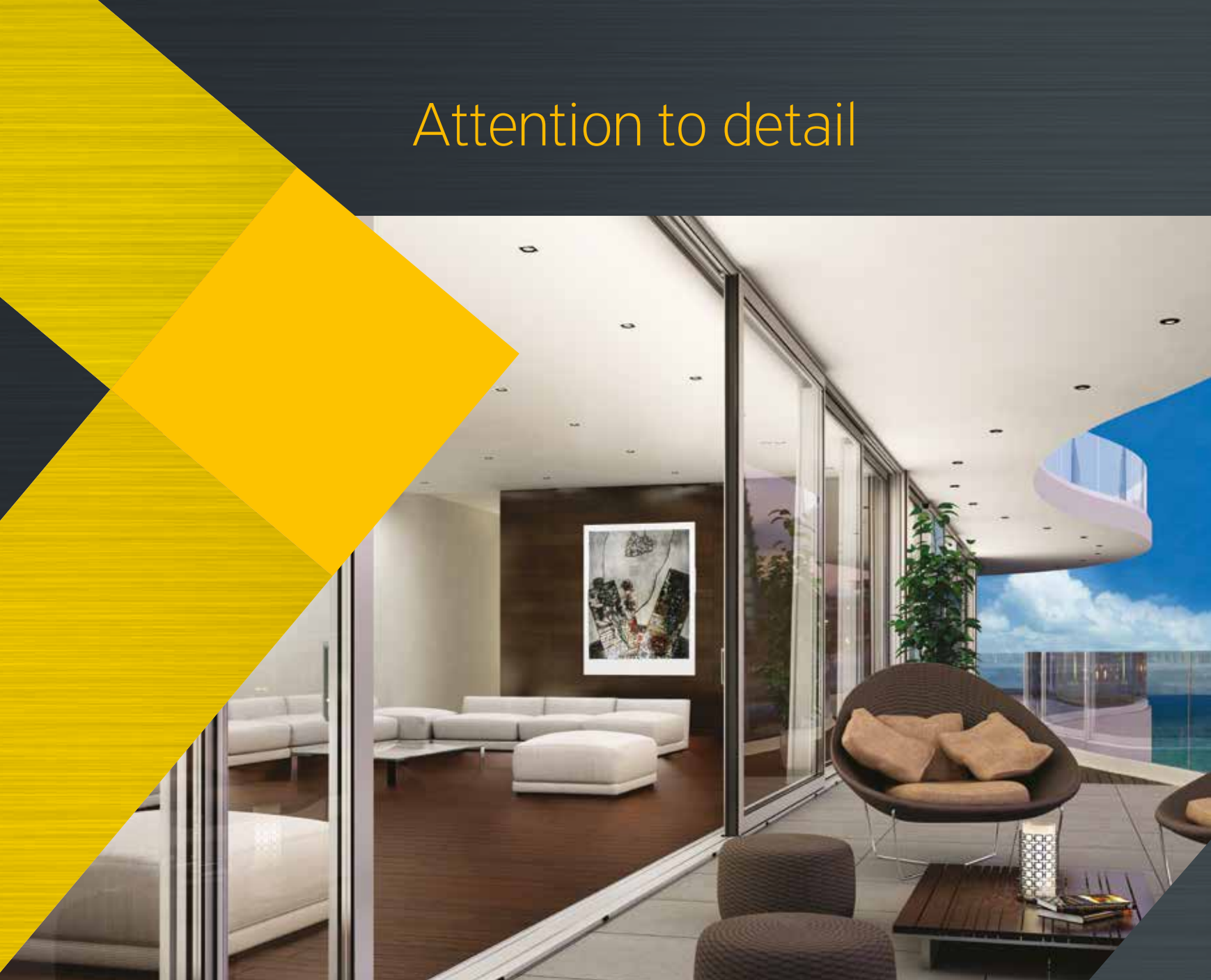
Low thermal insulated threshold that is addressing every precaution for easy and safe access to children, elders and people with disabilities. Available for every typology of the system with high performances and innovative water drainage.

Elegant appearance that minimizes the visible aluminium frame with the use of the narrow interlocking profile at the central vertical mullion with face width only 47 mm!

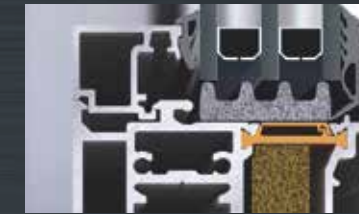
Moreover, the narrow integrated handle at the interlocking profile apart from aesthetics and functionality, offers robustness to the structure and higher resistance to wind loads.

In addition, thanks to the reinforced profiles of the system, frames more than 3 meters height can be manufactured, keeping a high level of functionality and performances.

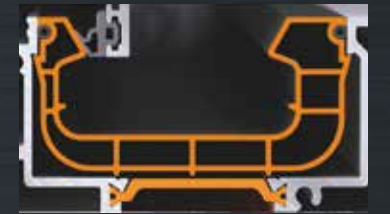
# Attention to detail



SUPREME S700 uses special anti-distortion polyamides that minimize operational problems and possible malfunctions of the profiles due to high temperature fluctuations.



Furthermore, the insulation foam placed perimetrically of the glazing unit along with the insulation bars of phenolic resin boost significantly the system's thermal insulation, reassuring simultaneously the proper ventilation of the panels.



The unique PVC profiles reduce the visible depth of the frame enhancing the elegant design of the system, contributes at the thermal insulation and water tightness as well as, provide UV protection that preserves their durability and texture under intense exposure to solar radiation.



Special design of aluminium glazing support which transfers loads directly to the rollers maximizing the functionality and the smooth glide of the sliding sashes.



The door sash glides easily and quietly on the solid rail made by stainless steel AISI 316L with surface hardness 130 HB and roughness only 0.05 mm.



Even when the classic track is selected for the bottom of the structure, there is a special patented component for water drainage that allows the concealed flow of the water to the external environment offering remarkable level of watertightness.

The innovative and patented design of the advanced water drainage system offers excellent performance even under adverse weather conditions.



**1** Smart water drainage system even under adverse weather conditions.



**2** Special patented water drainage accessory, placed under the central interlocking, offering a high level of watertightness.



**3** The low threshold is made by 3 different profiles with the necessary gradients that facilitate the concealed discharge of water outflow at the external side of the construction.



**4** Specially perforated profiles, assembled together, allow the water to flow through the railway profiles to its way out.



# Exploiting every contemporary need



## Handles

The system is accompanied by branded Lift & Slide handles designed by ALUMIL and manufactured by world-class specialists to ensure top quality and flawless operation.

- / Standard series made of aluminium and available in various standard colors.
- / Supreme series made of brass in matt chrome finishing.



## Automated version

Elegance and comfort are combined in the Automated version of SUPREME S700 thanks to a remote control that ensures safety and functionality.

Tested by DEKRA according to European Standards for Safety in use for power operated pedestrian doors.

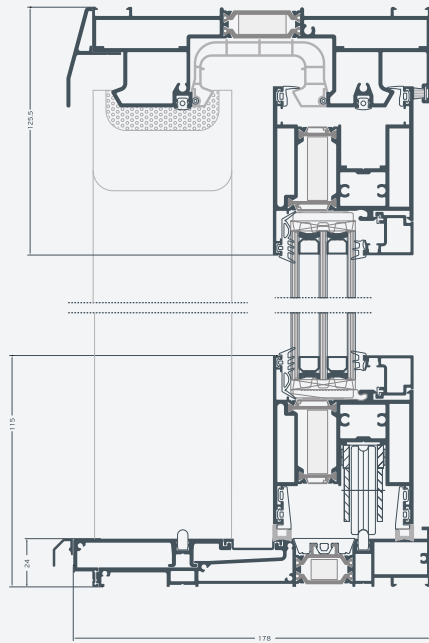
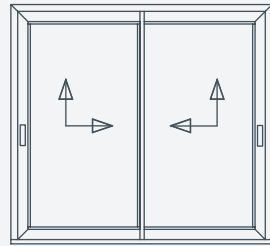
Additional safety components such as a light barrier, a light curtain, or a radar sensor are available as an option. The system is operated by wall/key switch, radio remote control, push & go or manually with a handle.



Ideal for heavy duty constructions up to 400 Kg per sash cooperating with the lift & slide mechanism which offers:

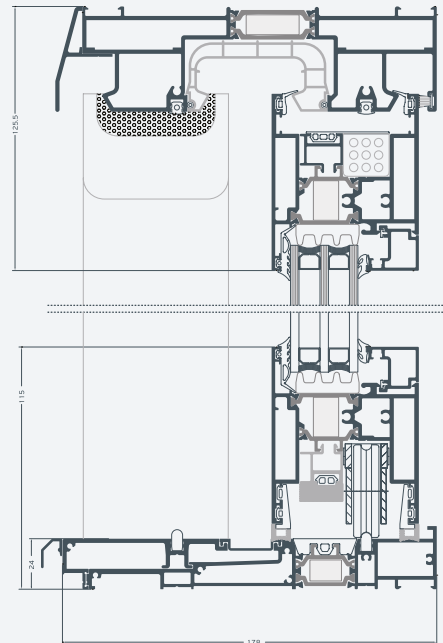
- / Outstandingly smooth and quiet movement of the sliding sashes.
- / High burglary inhibition thanks to robust hardware components.
- / Easy operation even of large and heavy sashes.

2 sashes / 2 track  
low threshold

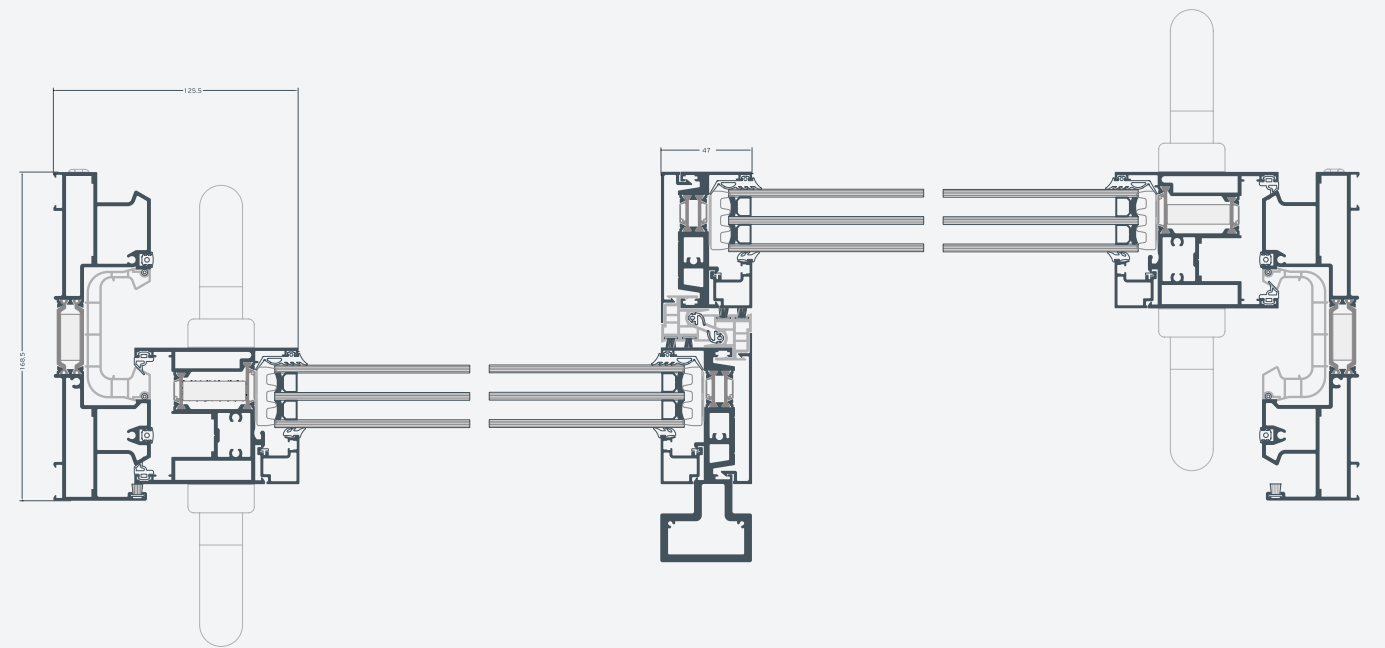


$U_f=2,8W/m^2K$

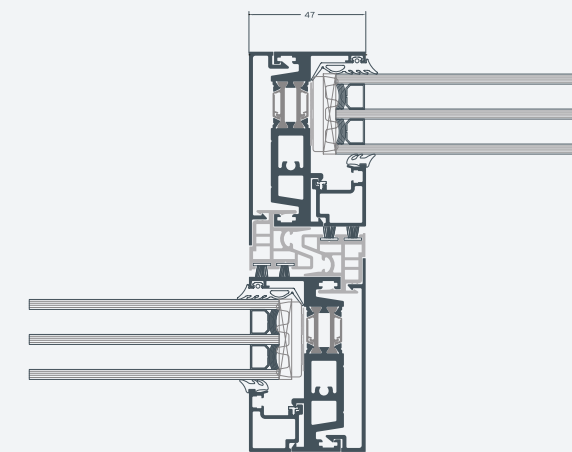
Alternative



$U_f=2,3W/m^2K$

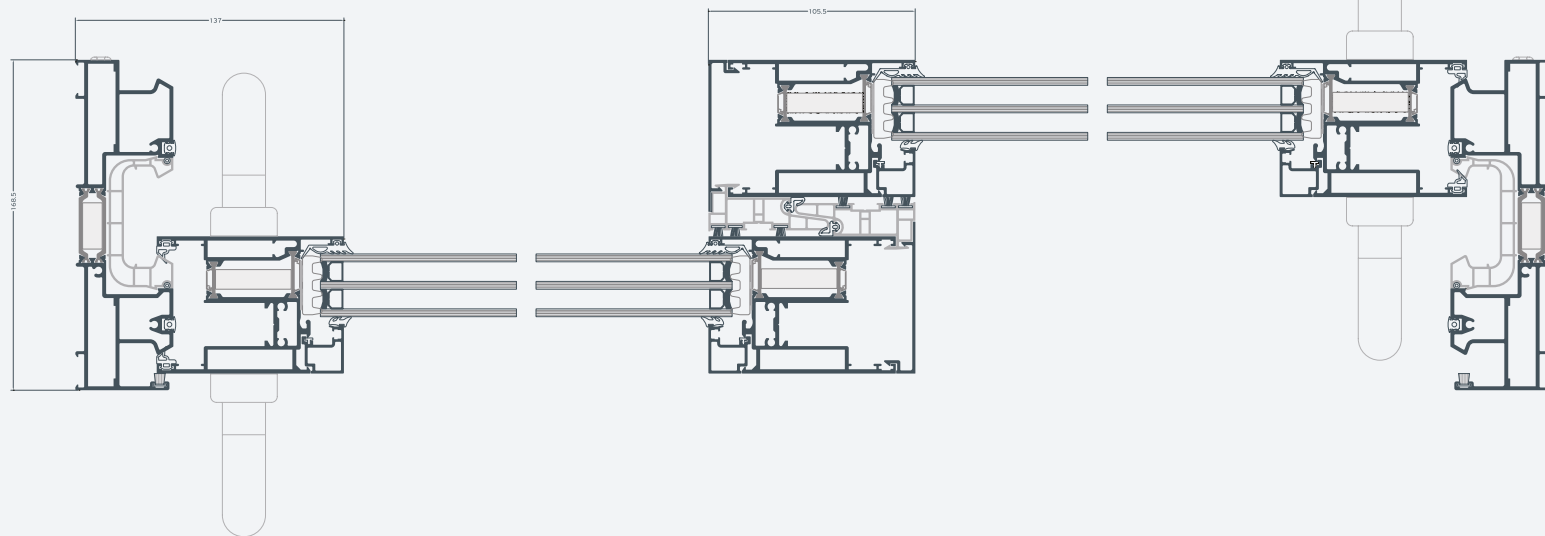
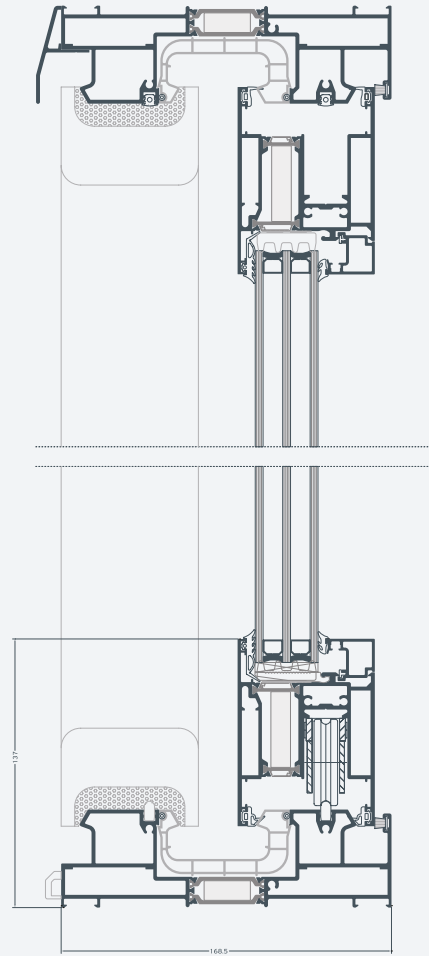
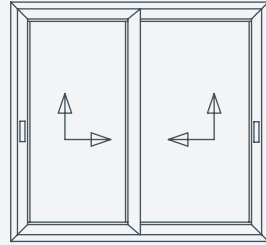


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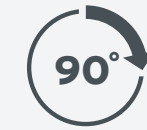
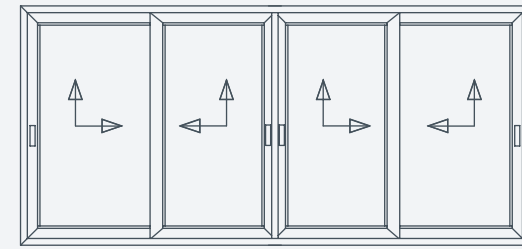


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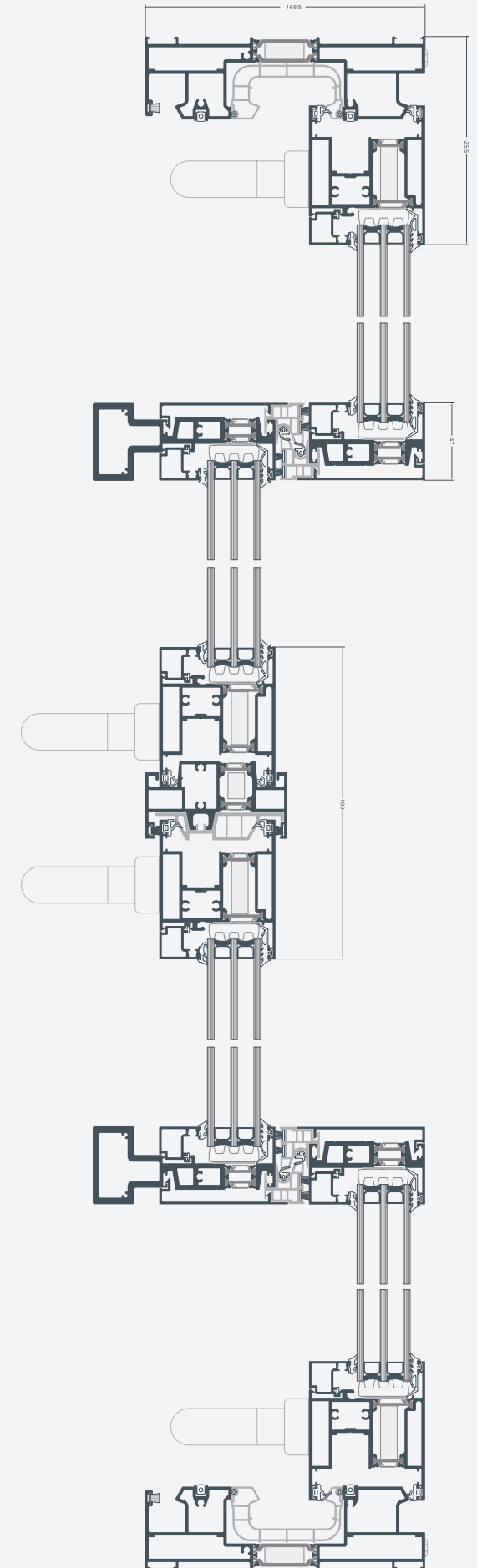
2 sashes / 2 track



4 sashes / 2 track



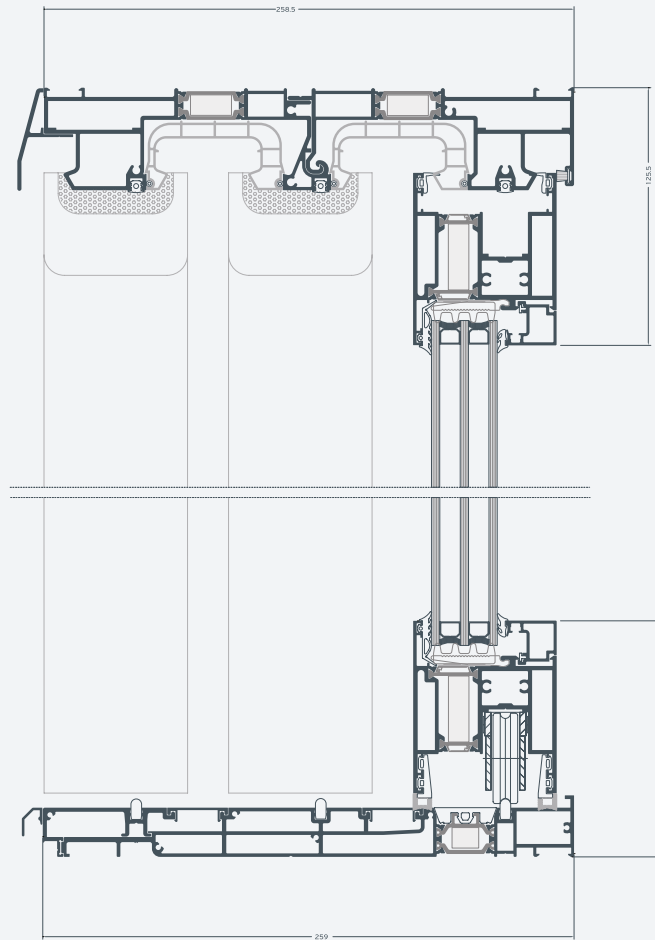
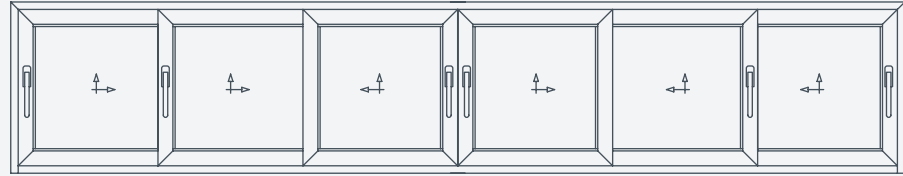
Excellent cooperation with the insulated ALUMIL's rolling shutter system SMARTIA S13600, providing a unified thermal insulated zone that significantly improves the heat transfer coefficient (U-value) of the construction.



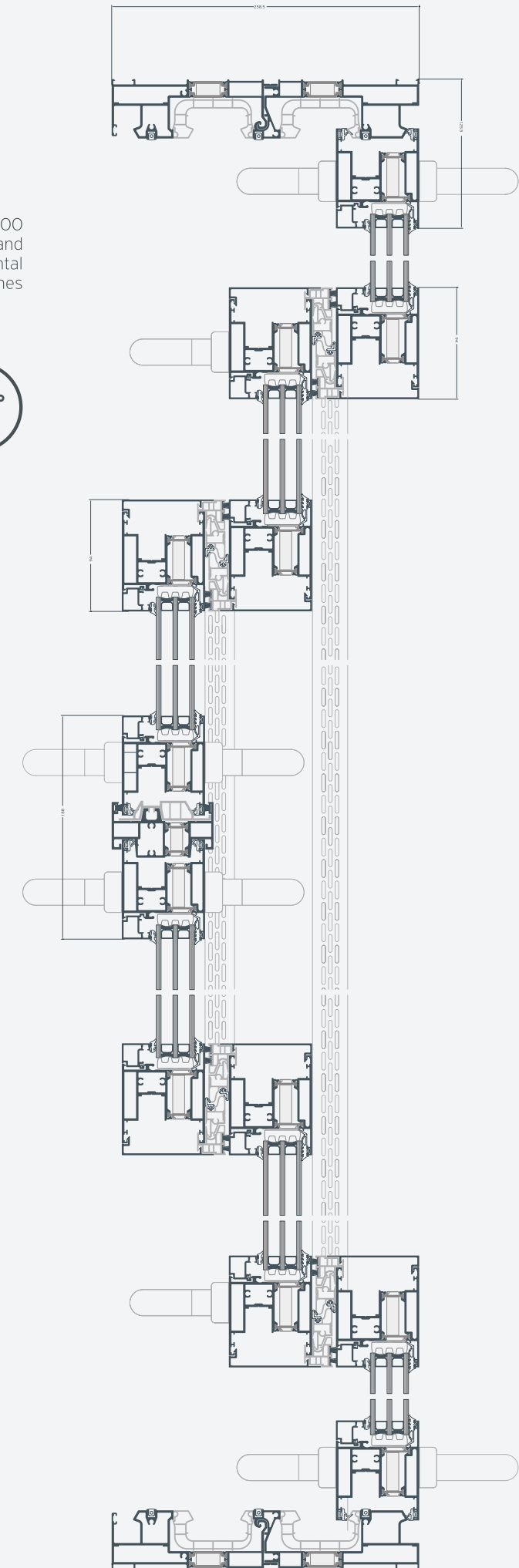


# Alumil SUPREME S700

6 sashes / 3 track

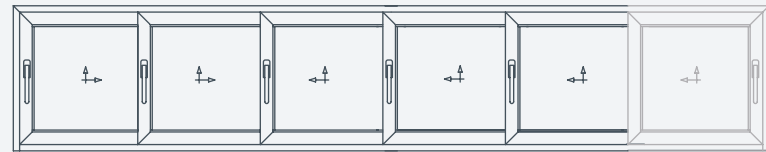


In order to cover wide spans, system SUPREME S700 offers two different versions of the triple track (low and standard profile) for the application of triple horizontal lifting sliding sash typology or 6 lifting sliding sashes with meeting stile.

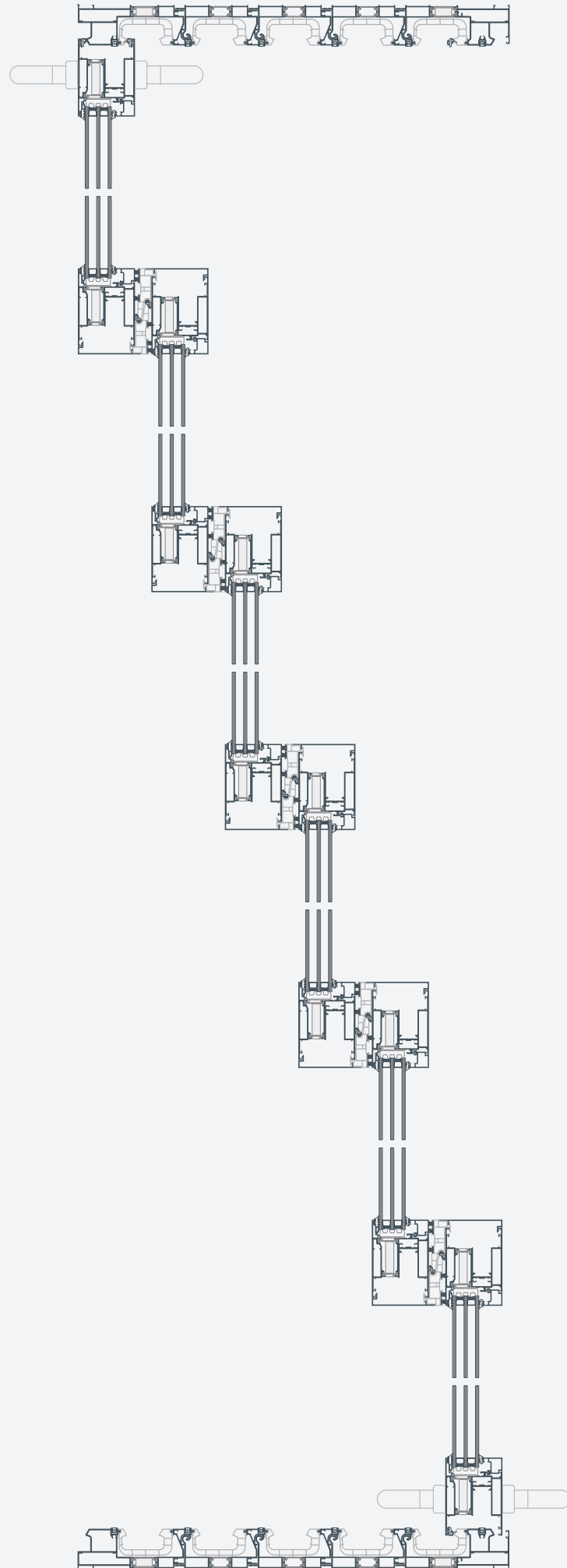


# Alumil SUPREME S700

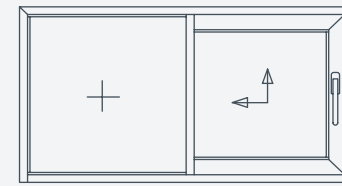
## Multitrack



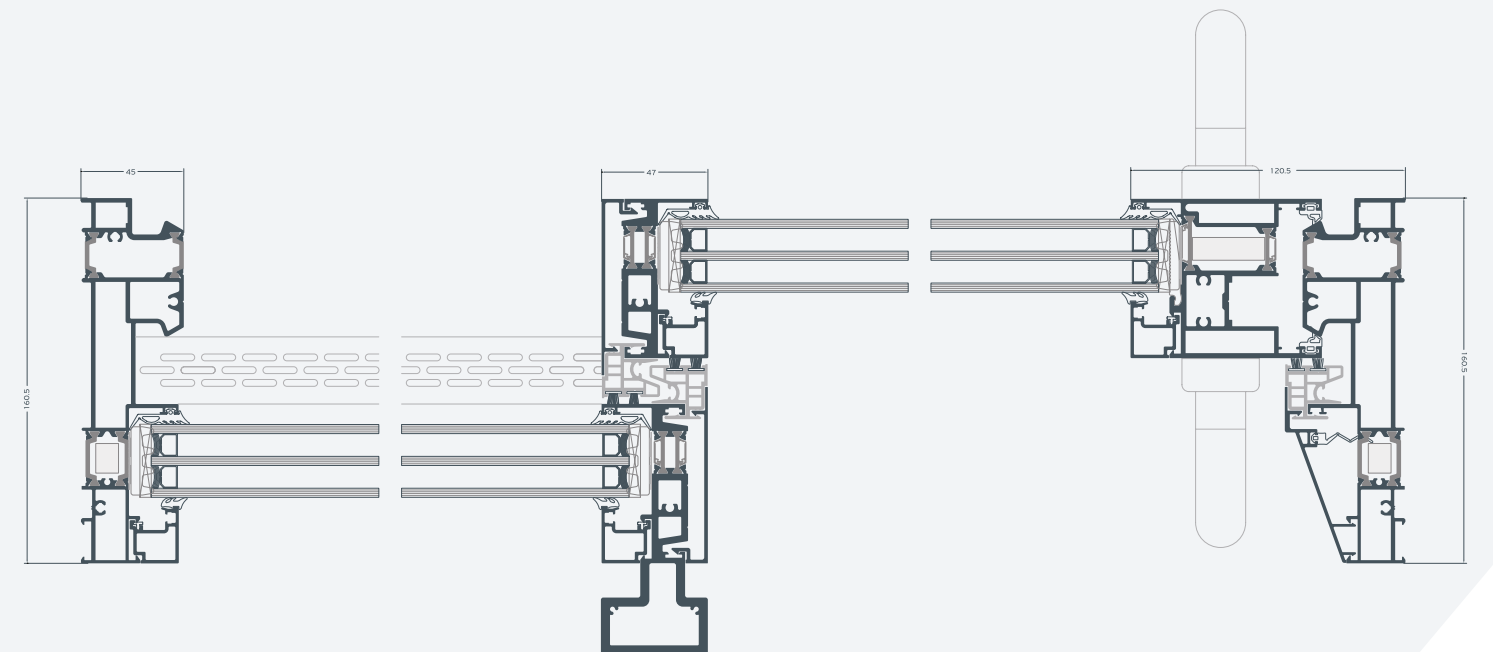
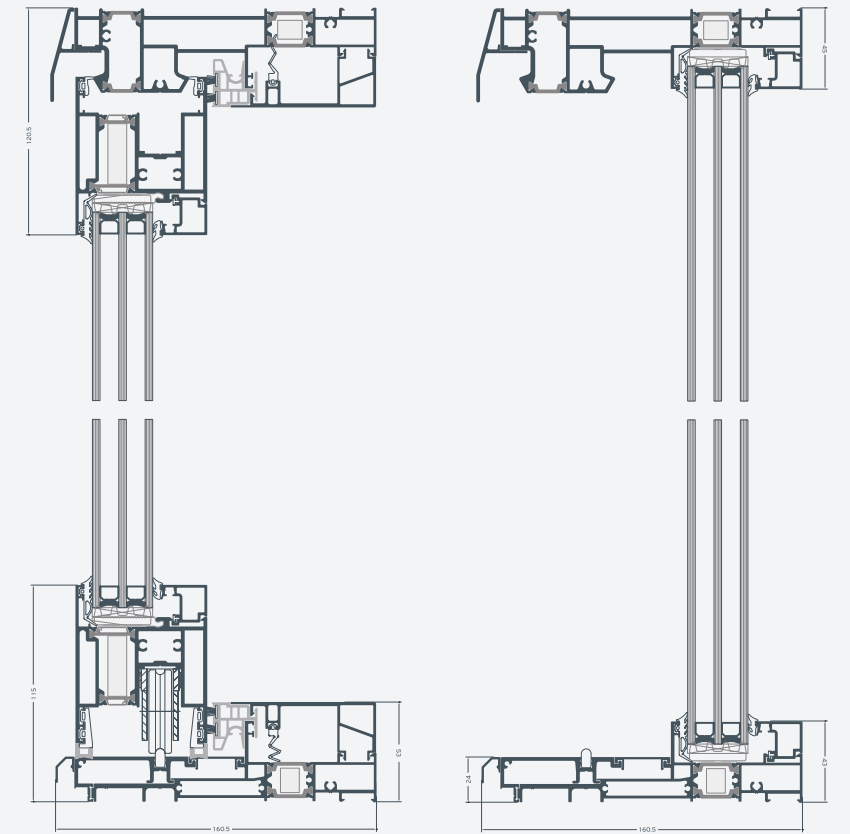
Infinite number of horizontal sliding sashes with special profiles for the implementation of multi-sash typologies.



## 1 sash / fixed light

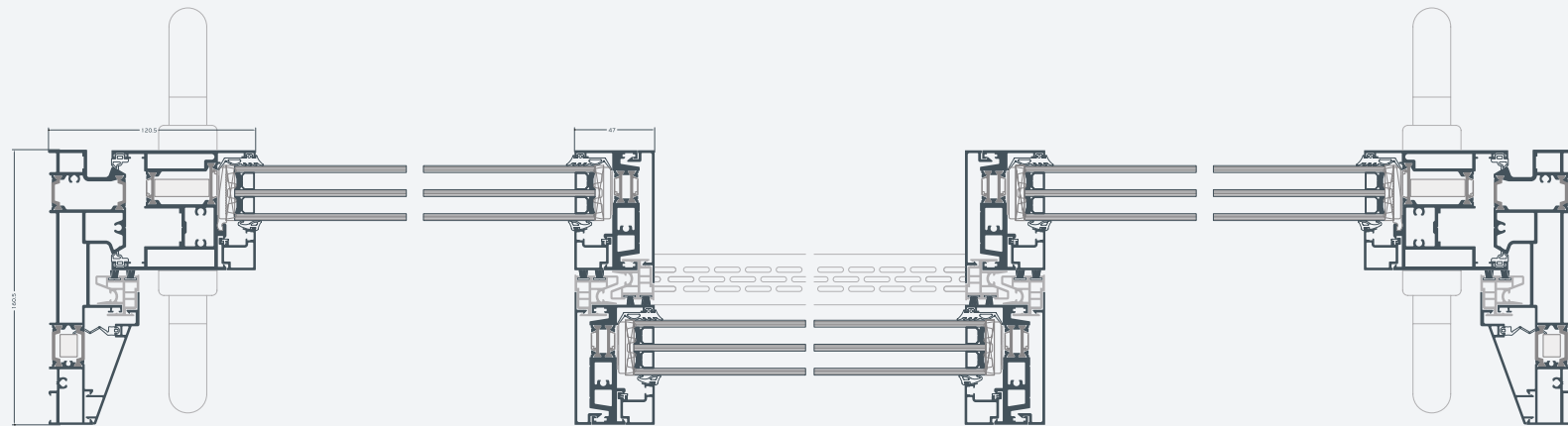
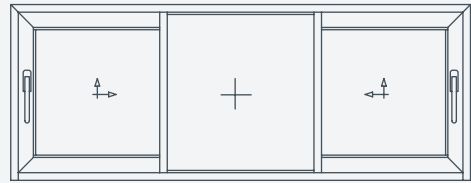


Furthermore, the system offers the ability of implementing lifting sliding sashes in combination with fixed lights.

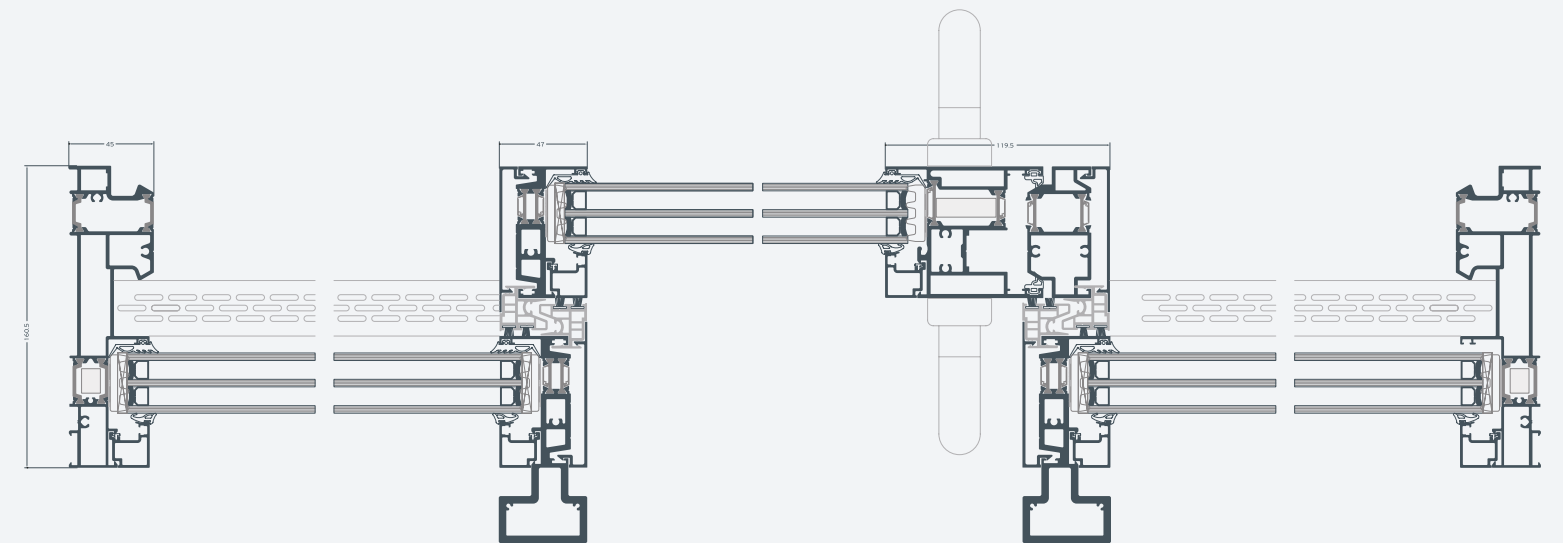
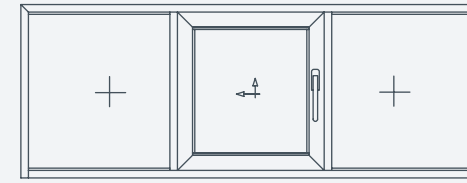


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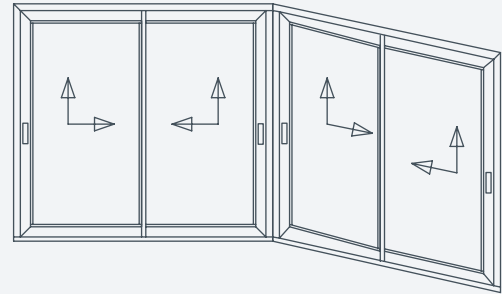
1 sash / fixed light / 1 sash



fixed light / 1 sash / fixed light

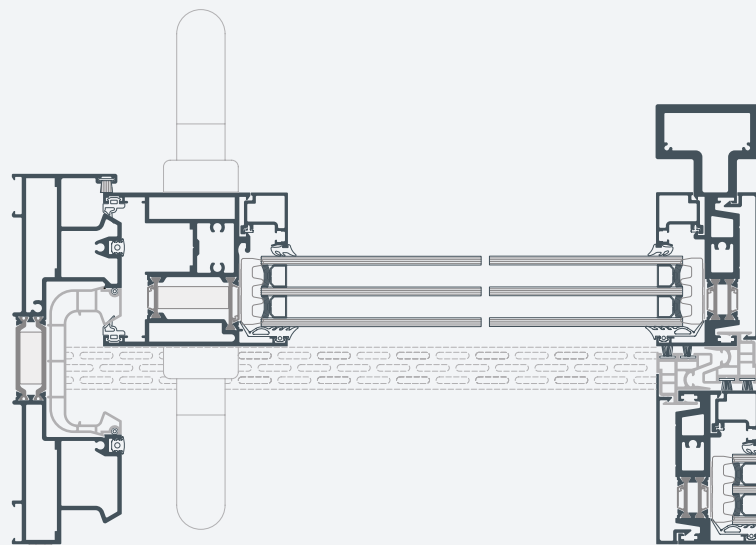
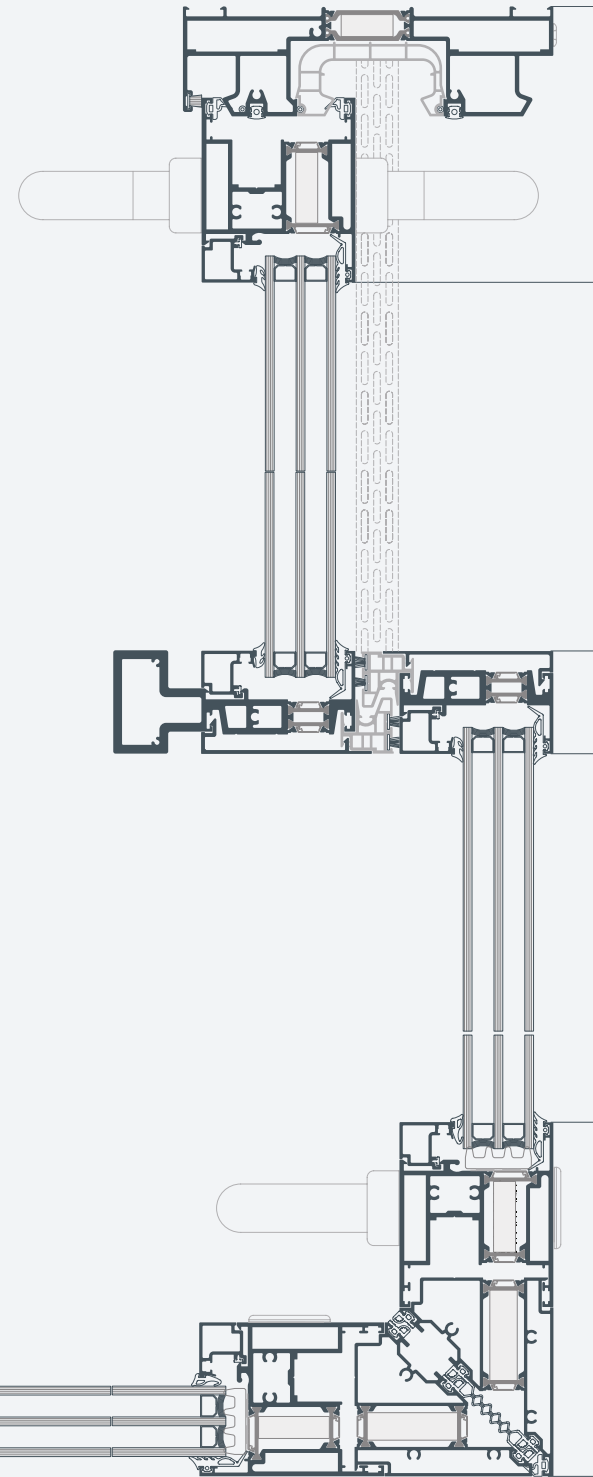


## External corner

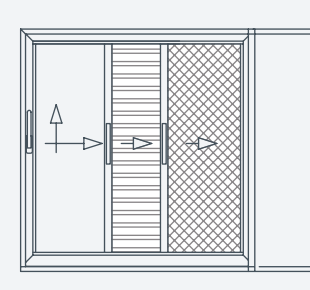


Corner constructions without using intermediate mullions:

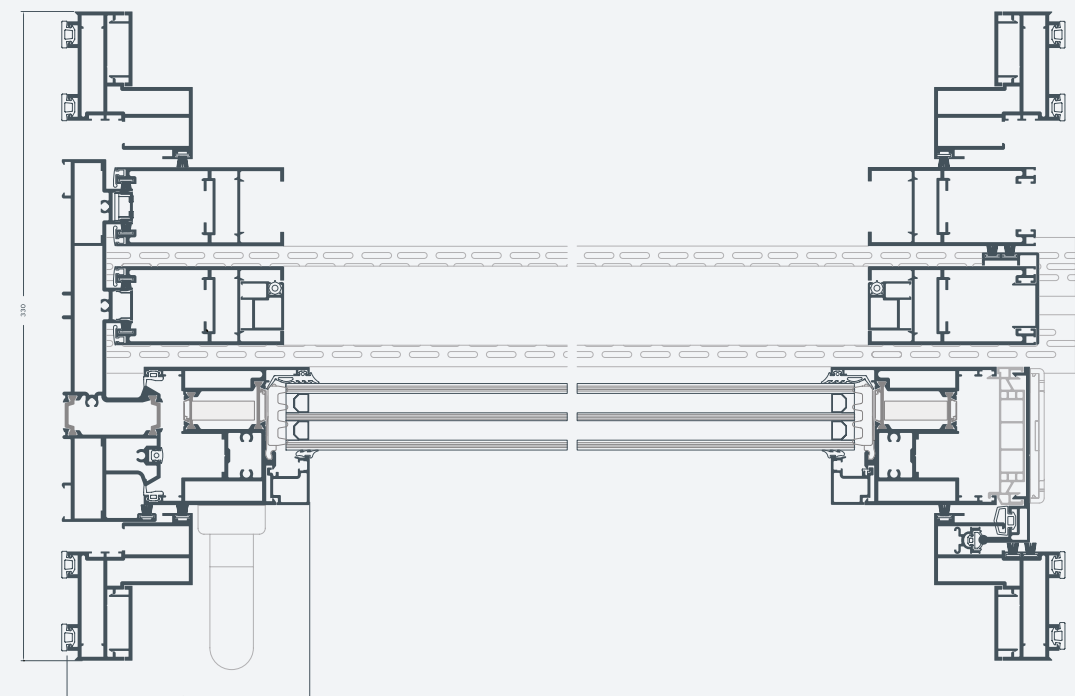
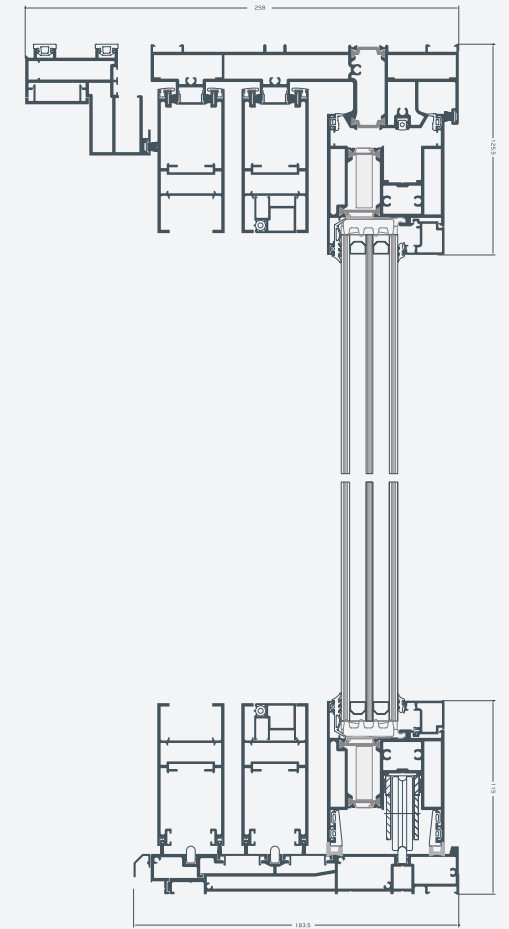
- / For maximum natural lighting.
- / For ease of access.
- / Minimal design.
- / High functionality.



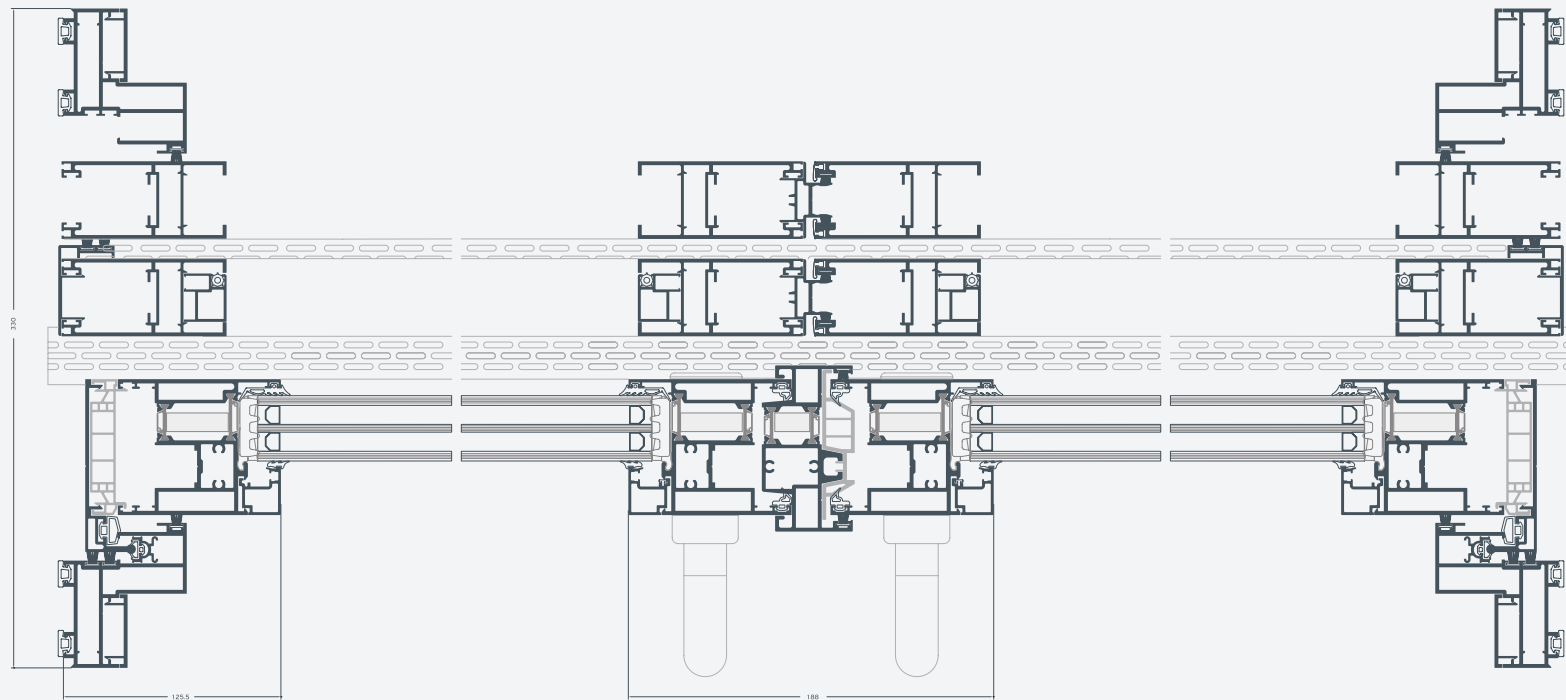
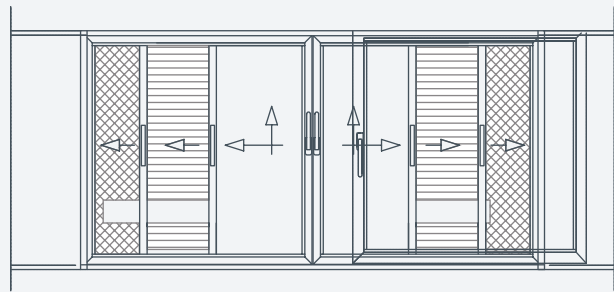
## Pocket window 1 sash / flyscreen / shutter



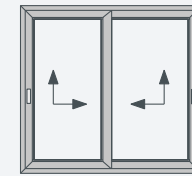
The specially designed triple rail can be integrated with fly-screen and shutter with the use of the low threshold for easy access.



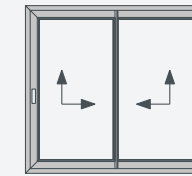
Pocket window  
2 sashes / flyscreen / shutter



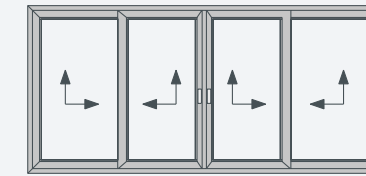
# Applications



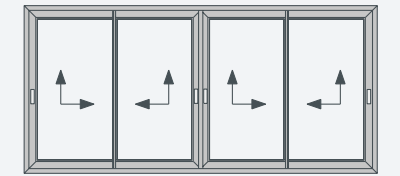
2 sashes / 2 track



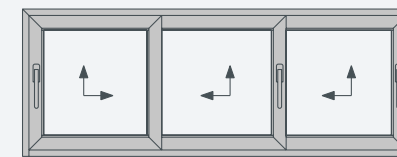
2 sashes / 2 track  
(narrow interlocking profile,  
low threshold)



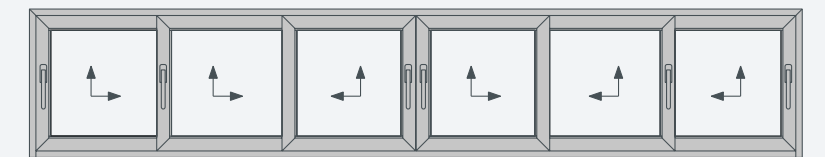
4 sashes / 2 track



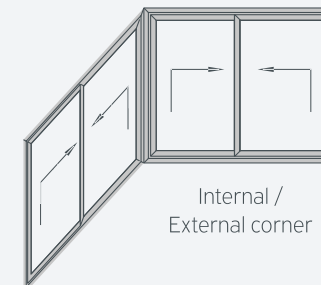
4 sashes / 2 track  
(narrow interlocking profile,  
low threshold)



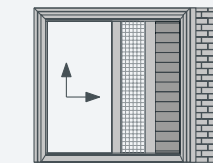
3 sashes / 3 track



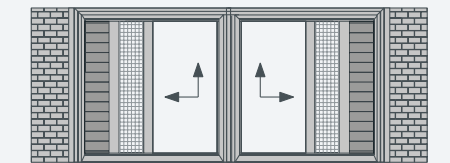
6 sashes / 3 track



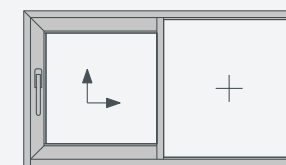
Internal /  
External corner



1 sash / 1 track /  
fly-screen / shutter



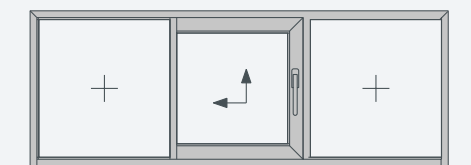
2 sashes / 1 track /  
fly-screen / shutter



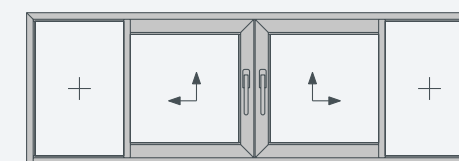
1 sash / 1 fixed



1 sash / 1 fixed / 1 sash








1 fixed / 1 sash / 1 fixed



2 sashes / 2 fixed

# Table of Performance

## CERTIFICATION

-  Water tightness  
EN 12208
-  Air permeability  
EN 12207
-  Wind load resistance,  
max. test pressure  
EN 12210
-  Wind load resistance  
to frontal deflection  
EN 12210
-  Burglar Resistance  
EN 1627 -1630

## CLASSIFICATION

1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	8A (450 Pa)	<b>9A (600 Pa)</b>
1 (150 Pa)		2 (300 Pa)		3 (600 Pa)		<b>4 (600 Pa)</b>		
1 (400 Pa)		2 (800 Pa)		3 (1200 Pa)		<b>4 (1600 Pa)</b>		5 (2000 Pa)
A (≤1/150)				B (≤1/200)			<b>C (≤1/300)</b>	
RC 1				<b>RC 2</b>			RC 3	

ALUMIL has also certified the system SUPREME S700 according to A AMA & AS standards which are available upon request

## THERMAL PERFORMANCE

	Dimensions in mm (W x H)	U <sub>w</sub> in W/m <sup>2</sup> K (U <sub>g</sub> = 0,6)	U <sub>w</sub> in W/m <sup>2</sup> K (U <sub>g</sub> = 0,8)	U <sub>w</sub> in W/m <sup>2</sup> K (U <sub>g</sub> = 1,1)
1 sash / fixed light	2600 x 2400	1,07	1,25	1,50
2 sashes / 2 fixed	2600 x 2400	1,06	1,23	1,49
2 sashes / 2-track	2600 x 2400	1,31	1,46	1,69
2 sashes / 2-track (narrow interlocking profile, low threshold)	2600 x 2400	1,33	1,49	1,73
•4 sashes / 2-track	5200 x 2400	1,27	1,43	1,66
4 sashes / 2-track (narrow interlocking profile, low threshold)	5200 x 2400	1,29	1,45	1,69



Technical approval and production  
conformity by the Belgian Construction  
Certification Association



**Seventh Heaven**  
Dubai, U.A.E.



**W Hotel** Dubai, UAE

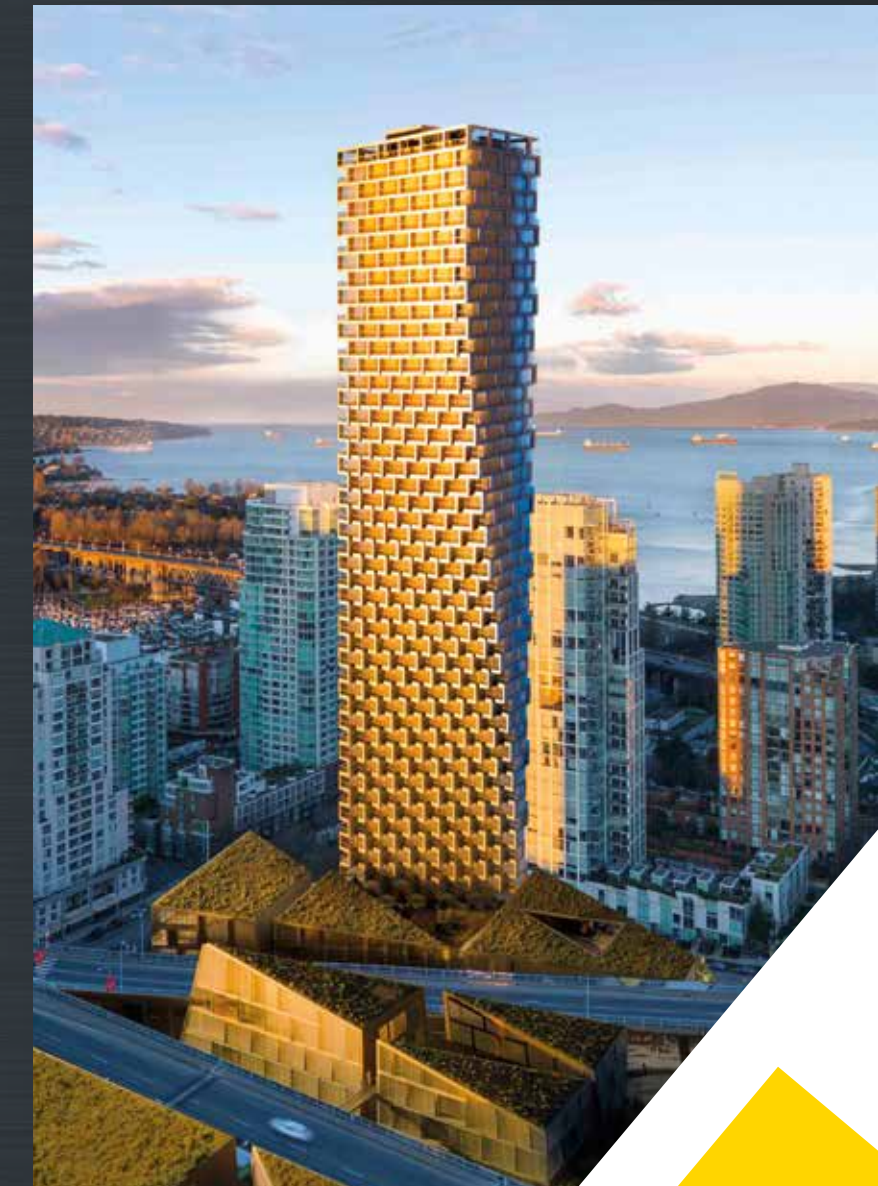


**Mitsis Alila Resort & Spa** Rhodes, Greece



**Mriya Hotel** Crimea, Ukraine

## Reference Projects



**Vancouver House** Vancouver, Canada

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