



Alumil  **SUPREME**
S500 PHOS



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SUPREME S500

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The **SUPREME S500 PHOS** sets new standards for minimalism with its clear, symmetrical lines, impressive functionality and implementation of advanced technology.

PHOS means **LIGHT**

"Light is not so much something that reveals, as it is itself the revelation."

The Art of Luxury Living

Alumil SUPREME
S500 PHOS

Discover perfection in ALUMIL's
thermally insulated sliding system
SUPREME S500 PHOS,

DESIGN PHILOSOPHY

where **minimalist aesthetics** combine with
exceptional functionality.

AND KEY FEATURES



- Basic system's depth 50 mm.
- Minimal design with concealed profiles and symmetrically clear lines for maximum natural light.
- Narrow interlocking profile of only 25 mm face width for an unobstructed view.
- The **Eclipse version** features a recessed bottom track covered with the floor finish, creating uniformity in design and providing a flat surface for easy access.
- The **Total Eclipse version** offers the ultimate minimal design, with all tracks covered by the ceiling, floor, and walls, resulting in a seamless appearance.
- The real revolution of the system is the ability to defy gravity using the version **SUPREME S500 SlidAir™**, which offers elimination of the force needed to operate the sash by adding magnetic technology.

Alumil SUPREME
S500 PHOS

TECHNICAL

CHARACTERISTICS



VISIBLE ALUMINIUM FACE WIDTH	29 mm
FRAME HEIGHT	103 mm
FRAME WIDTH	210 mm
SASH HEIGHT	29 / 32 mm
SASH WIDTH	50 mm
INTERLOCKING PROFILE WIDTH	25 mm
SASH WEIGHT	1000 Kg
GLAZING	36 mm
INSULATION	POLYAMIDES, ABS

Alumil SUPREME
S500 PHOS

Enjoy an
unobstructed view and
abundant **natural light**

with just **25mm** of visible
aluminium at the interlocking profile.

SENSE

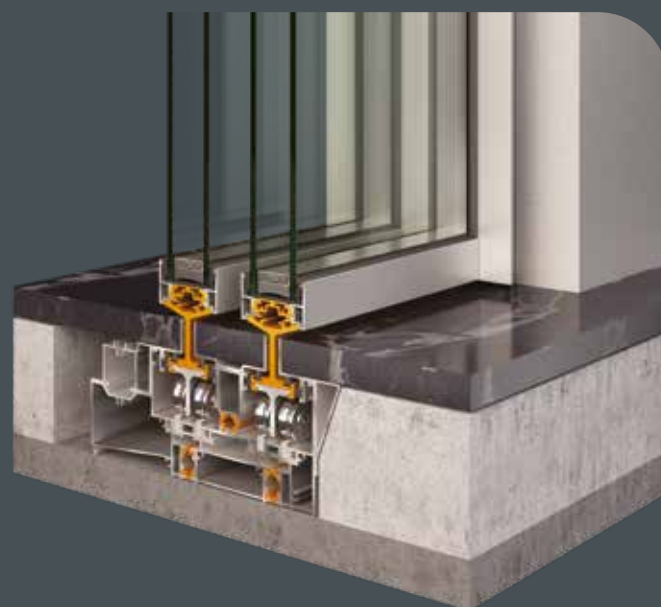
OF FREEDOM

The system presents a **symmetrical view** of aluminium around the glazing panel, featuring a similar width to the interlocking profile. This enhances uniformity in appearance, elevating any space's overall elegance and aesthetic appeal.



Alumil SUPREME S500 ECLIPSE

In the **Eclipse version**, the bottom track is recessed into the floor, fully covered by the floor finish. This design creates a flat surface that ensures effortless and secure access while establishing a seamless connection between indoor and outdoor spaces.



THE ULTIMATE

MINIMAL DESIGN



For those who crave the purest form of minimalism, the **Total Eclipse version** eliminates any visible tracks in a closed position. Even the top and side tracks are cleverly hidden within the ceiling and the wall, enhancing the overall aesthetics.

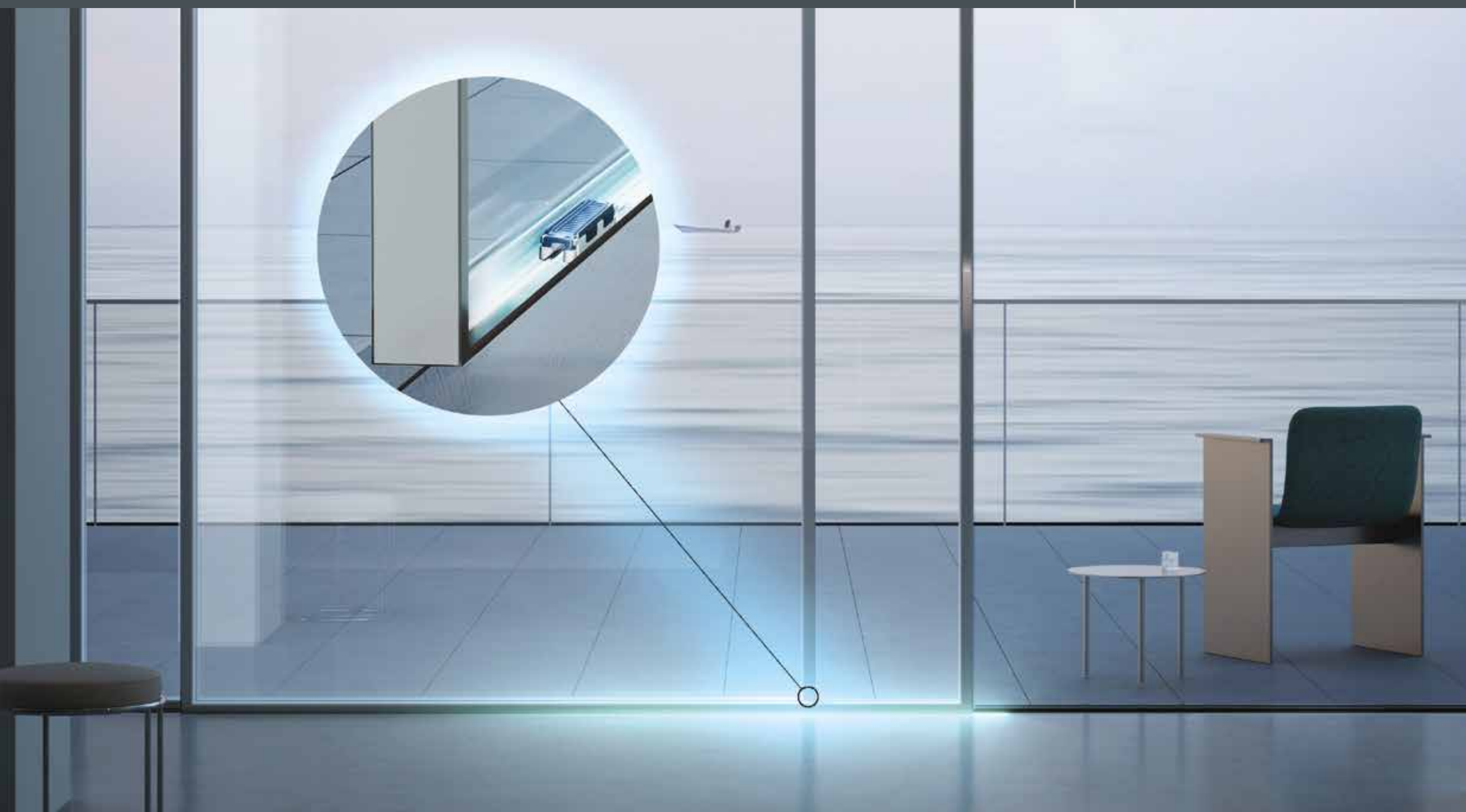
Alumil SUPREME
S500 SlidAir

Experience ultimate ease in operation with the **SUPREME S500 SlidAir™** version.

DEFYING GRAVITY:

The revolutionary design with patented **magnetic technology** offers **effortless gliding** of the sashes with **whisper-quiet precision**.

THE REVOLUTION IN WINDOWS TECHNOLOGY



- With the **magnetic levitation**, the rollers are totally replaced by the magnets, providing the **easiest sash operation** and ensuring **long-lasting functionality** even in highly corrosive environments.
- With the **magnetic support**, the rollers and the magnets coexist, offering **easy operation even for very heavy sashes**.

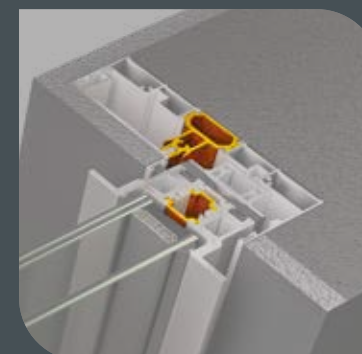
This technology can apply to any project using the **same profiles as the standard version**. The technology offers **endless design possibilities** without constraints on sash dimensions, aligning with contemporary project demands and individual preferences.

The state-of-the-art technology, along with the expertise of Alumil, guarantees **high-quality constructions** through easy and safe installation.

Alumil SUPREME
S500 PHOS

ATTENTION

The specially designed **fiberglass-reinforced polyamides** for sash and track profiles deliver **exceptional thermal insulation** performance.



The innovative design of the **sash base fiberglass-reinforced polyamide** ensures thermal break between indoors and outdoors and guarantees outstanding material durability.



The specially designed **glass setting blocks** offer stability and balance to the glazing panel while making the fabrication easier and faster.

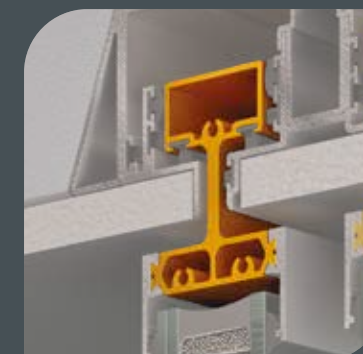


Including **sash gaskets on the locking side of the sash** enhances sealing performance and is also used as a shock absorber during closer.

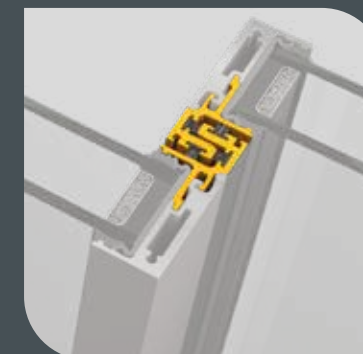


TO DETAIL

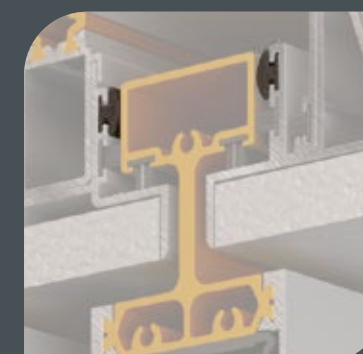
The ingenious design of the **upper sash polyamide** (Total Eclipse version) contributes to the stability and alignment of the sliding sash.



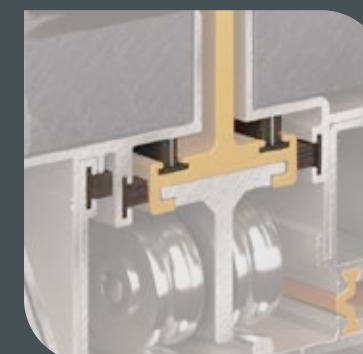
The environmentally conscious profiles, made of **durable thermoplastic material**, contribute to superior thermal insulation at the interlocking profile.



The addition of **sash spacers at the upper track** contributes to the alignment of the sliding sash for flawless operation.



High-quality brushes, available in standard and triple-membrane versions around the sash perimeter, elevate air permeability and watertightness.



Alumil > SUPREME
S500 PHOS

FOCUS

ON SAFETY

Locking system

The Alumil-designed **locking system guarantees elevated security** during operation through the incorporation of several key features:

- Multiple locking points for enhanced security.
- Stainless steel adjustable locking pin heads for flexibility and durability.

- Wrong operation safety device for preventing misuse and improper operation.
- Silent close device for a gentle, secure and noiseless closure of the sashes.

The locking mechanism is tested in a **durability test for 20.000 cycles** and a **mishandling test for 20.000 cycles**.

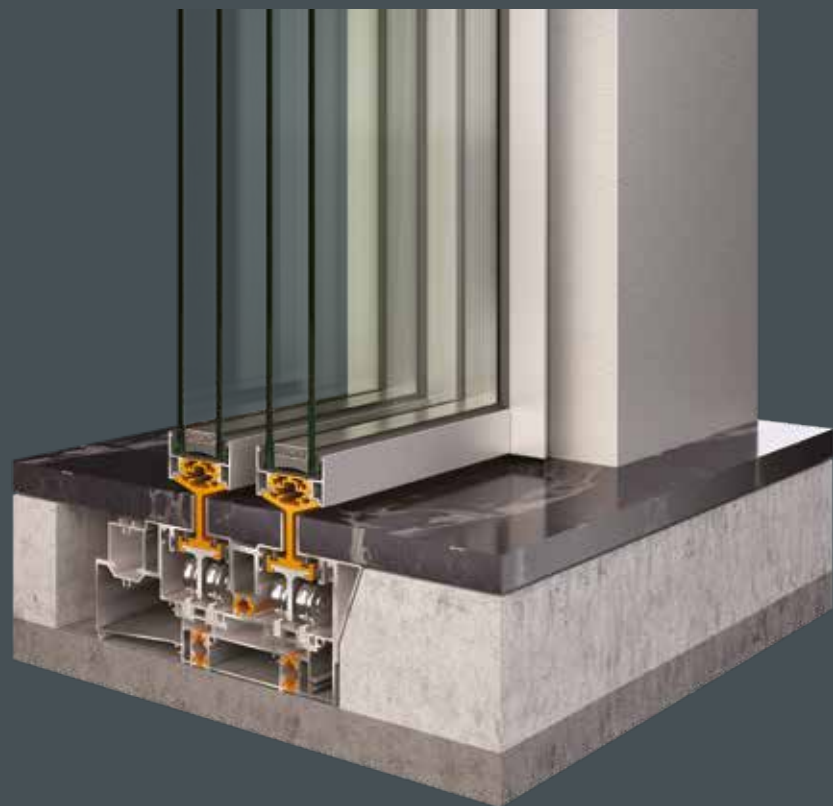
Handles

The **full-height profile handle** not only offers a symmetrical, clean-lined appearance that enhances the overall aesthetics but also a comfortably sized surface for effortless grasping and smooth sash operation.

The **Alumil-designed locking controller** is discreetly integrated into the handle profile and follows the same straight line in a closed position, creating a seamless appearance. Moreover, the controller can be easily detached for maintenance.



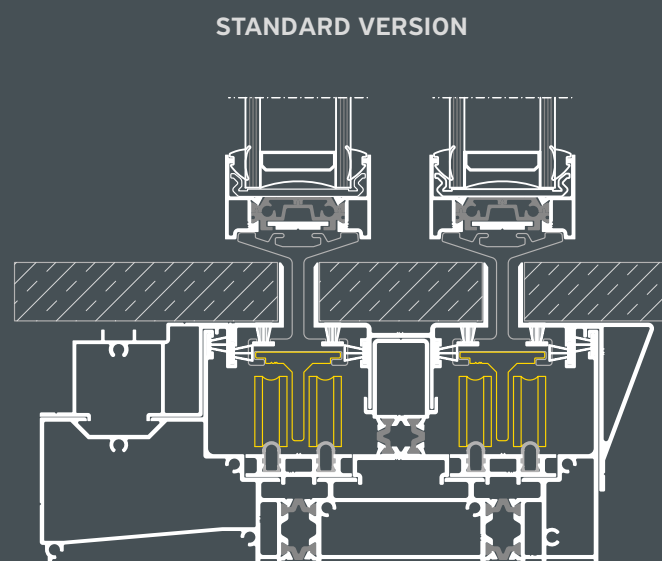
Alumil SUPREME
S500 PHOS



Rollers & Inox Guide Rail

The **heavy-duty inox guide rail (AISI 316L)**, in cooperation with the **stainless-steel rollers** placed under the sash, ensures exceptional functionality and long-lasting performance. The middle part of the bottom track is conveniently removable to allow access to the rollers in case of maintenance.

The rollers are engineered for heavy-duty constructions up to 1000 Kg per sash and have certified performance, tested according to EN 13126-15 and EN 1670 for corrosion resistance and durability.



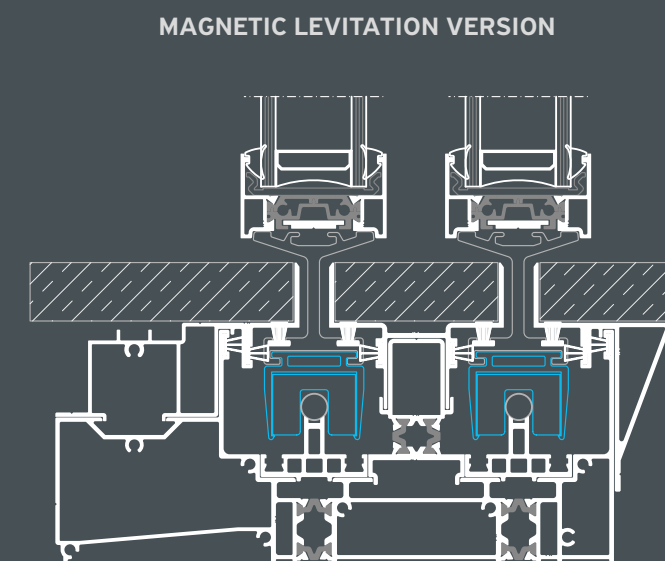
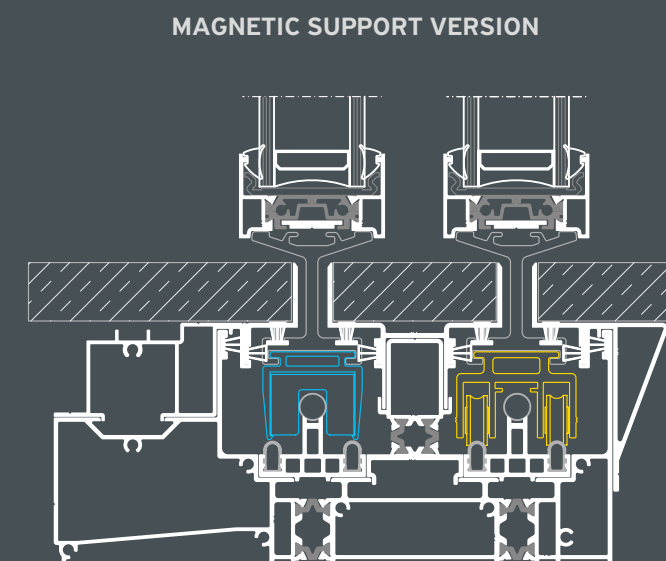
FOCUS

ON SAFETY

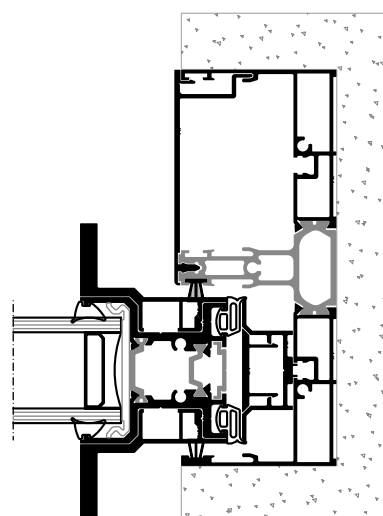
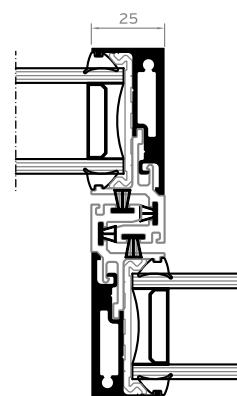
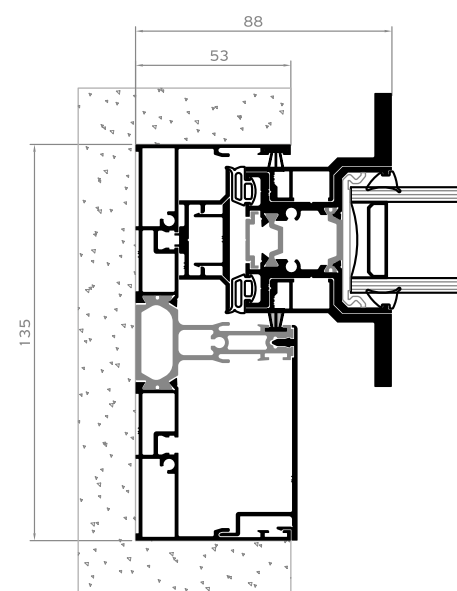
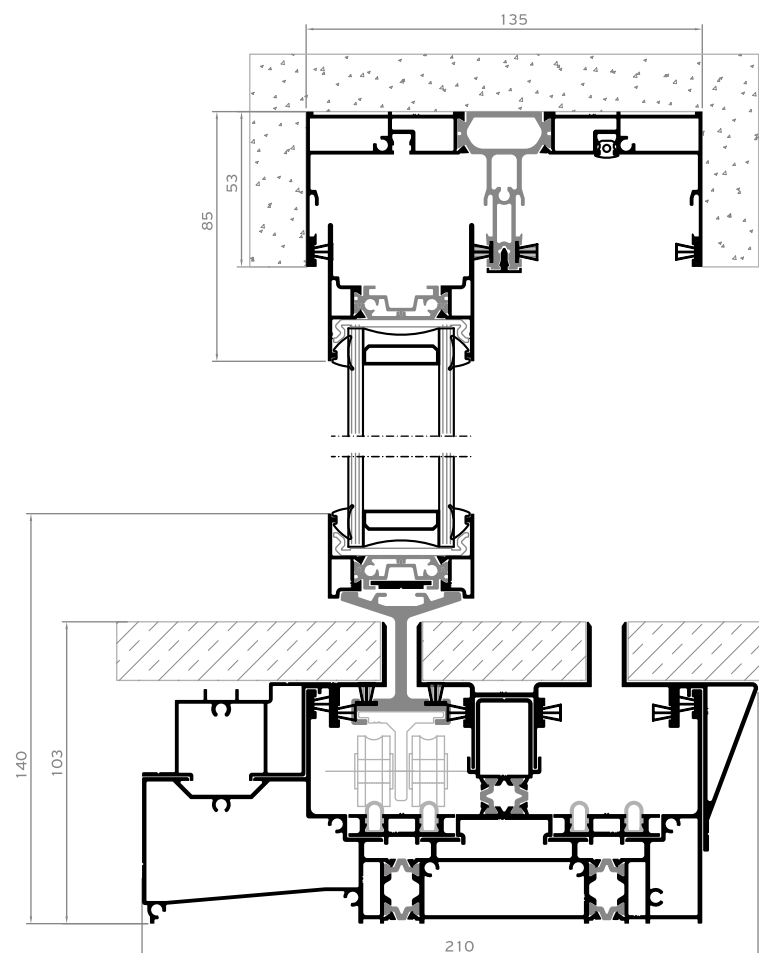
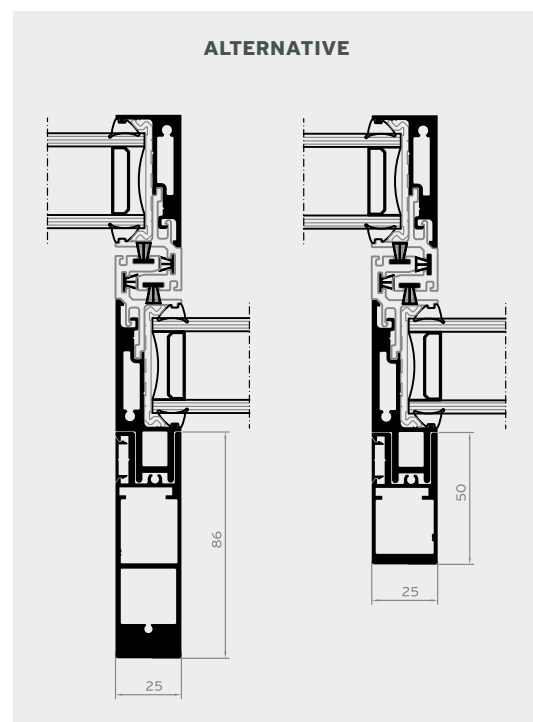
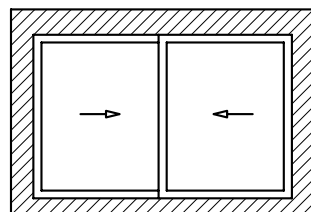
SlidAir™ Technology

The **magnetic suspension** is achieved through the cooperation of **magnetic sliders placed under the sash** with a special corrosion-resistant iron rail. To apply the technology, no electricity is required. The magnetic field is totally confined inside the slider section, eliminating external magnetic dispersions.

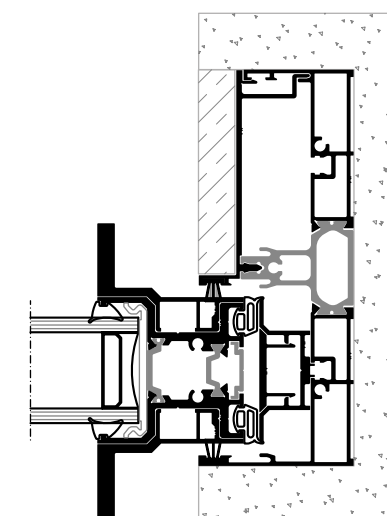
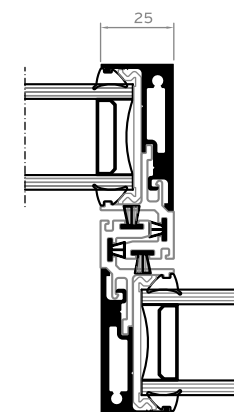
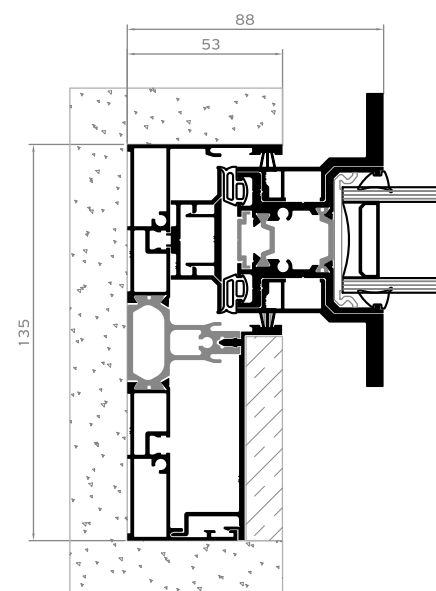
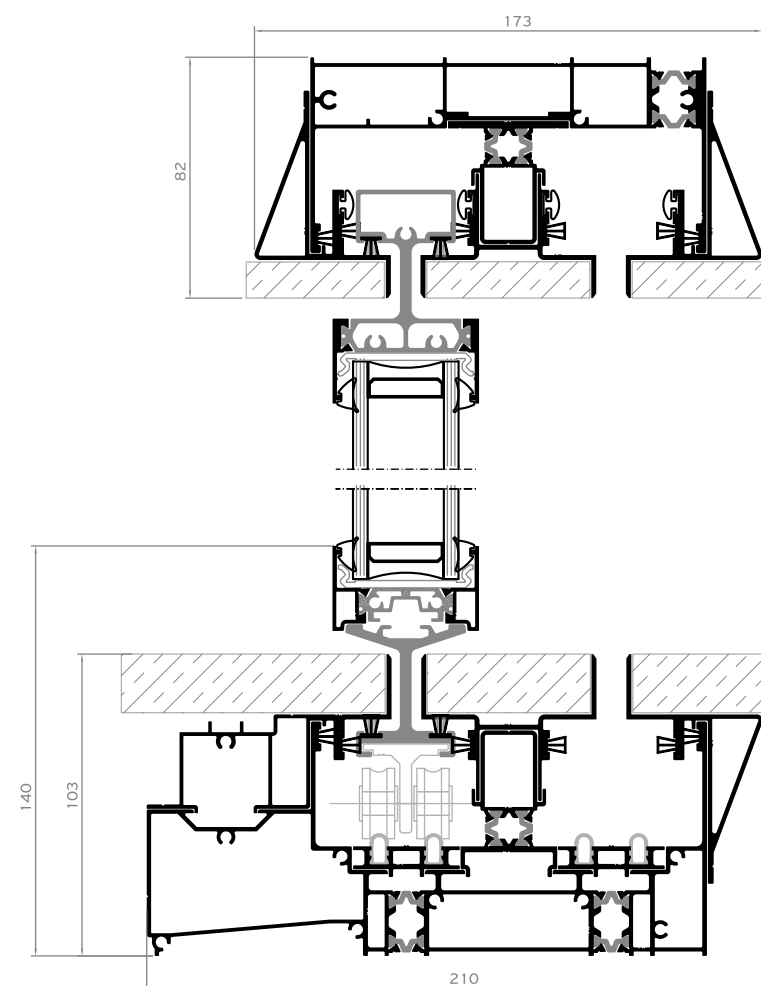
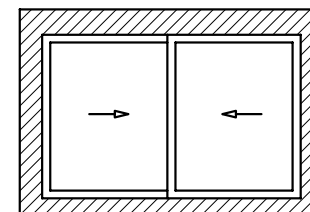
The technology is tested with sashes up to 1500kg and can guarantee an operational force of **2 kg for a 600 kg** sash. The accessories are tested for corrosion resistance in salt spray environment and for durability in cycling testing.



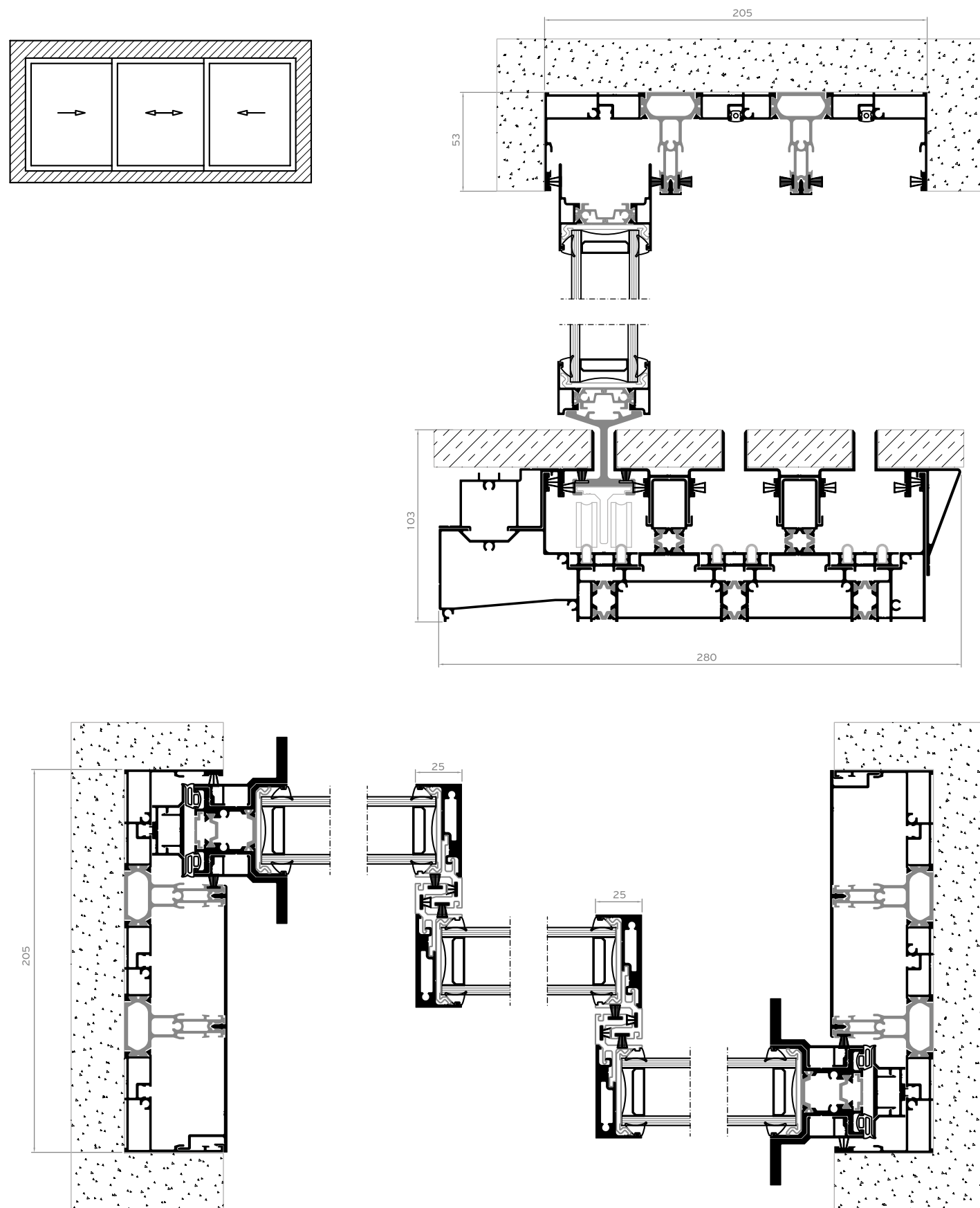
2 Sashes / 2 Track



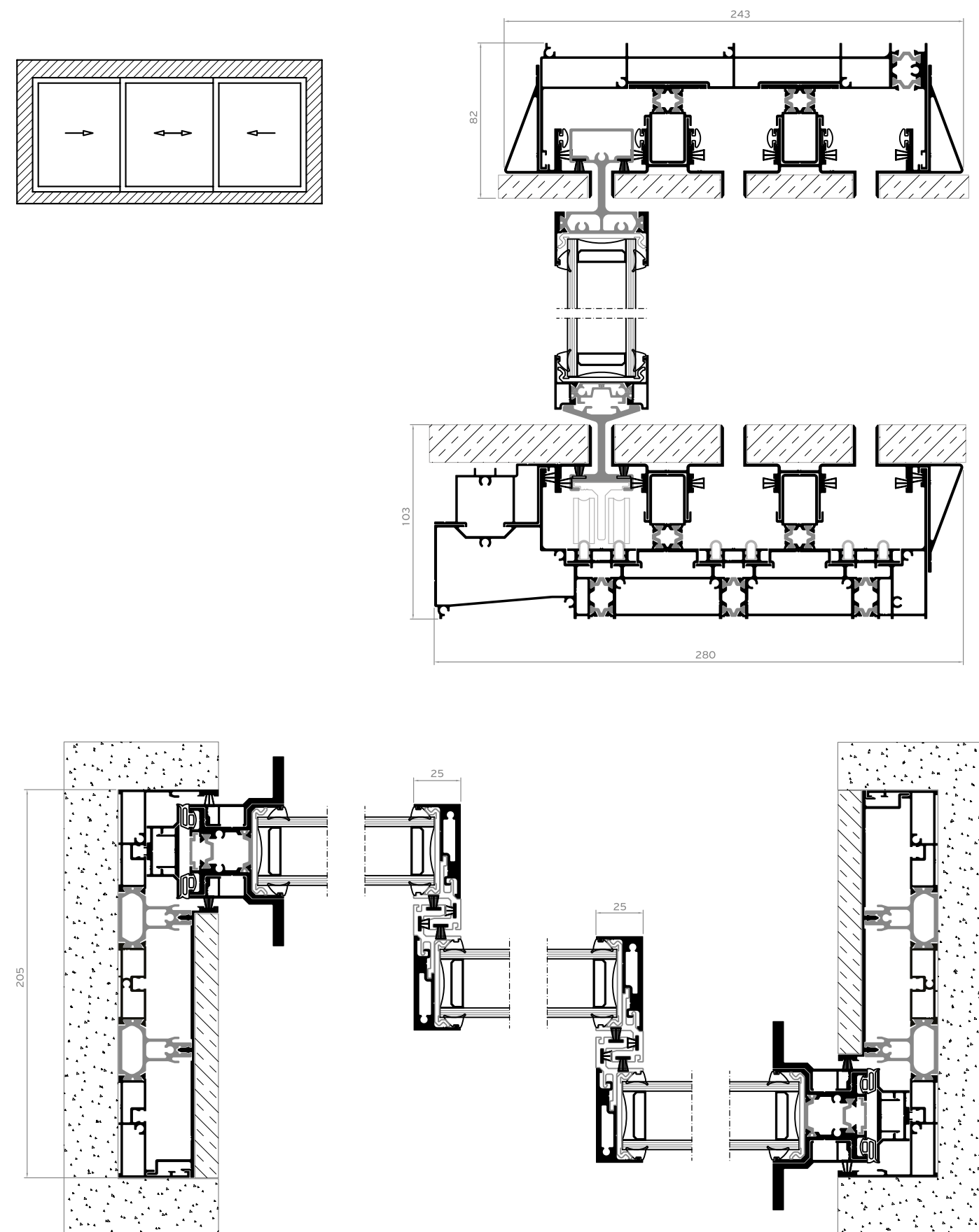
2 Sashes / 2 Track / Total Eclipse



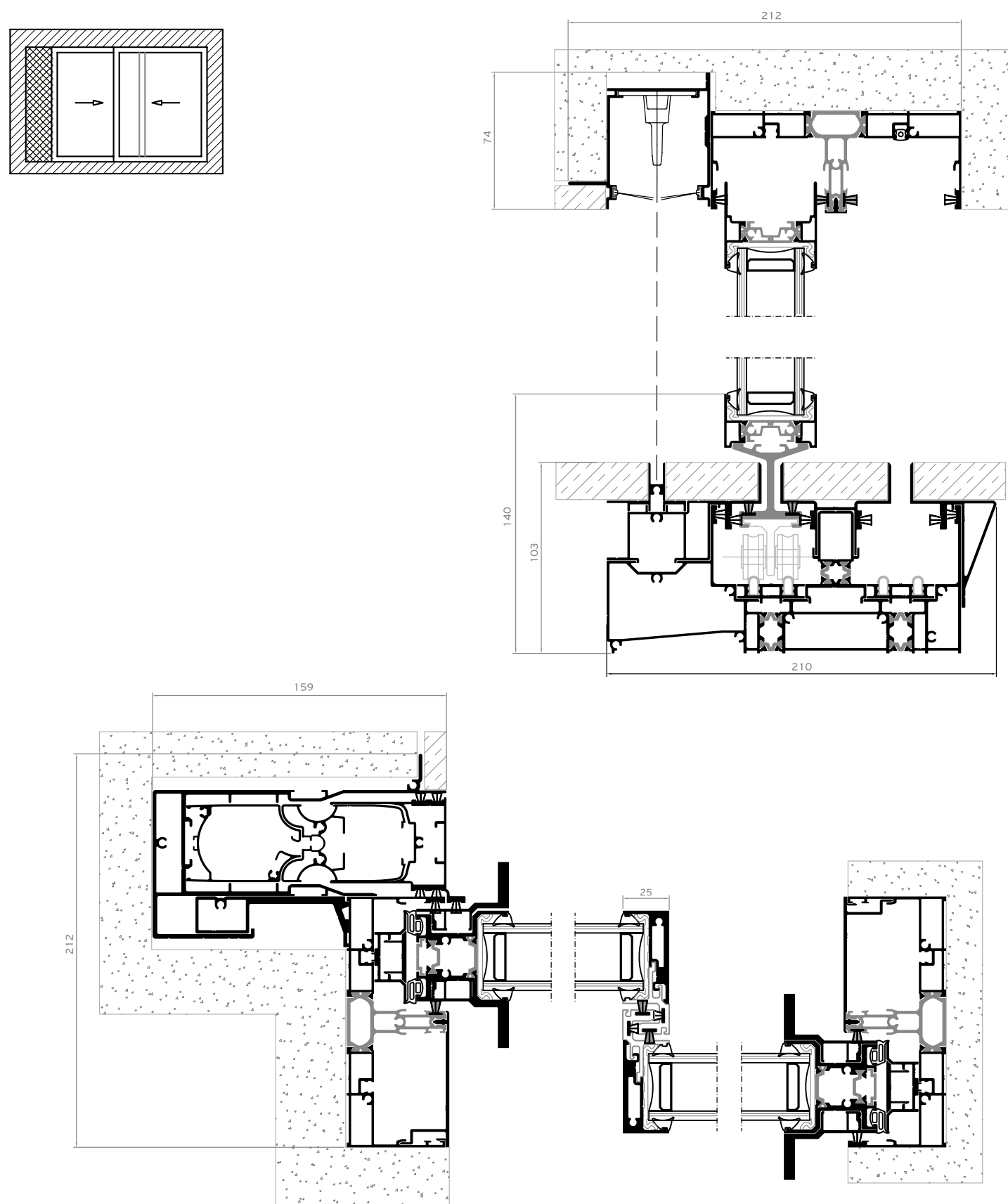
3 Sashes / 3 Track



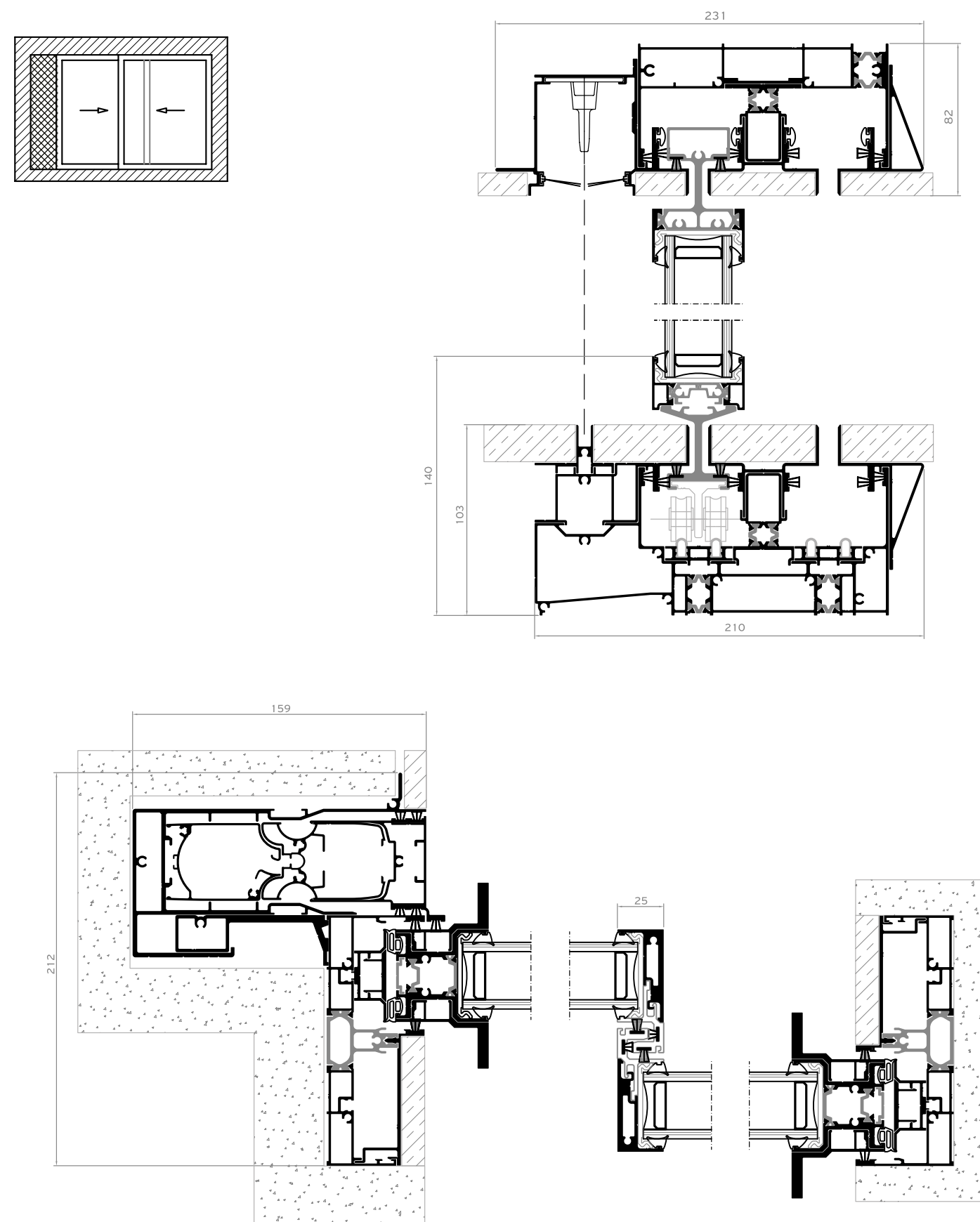
3 Sashes / 3 Track / Total Eclipse



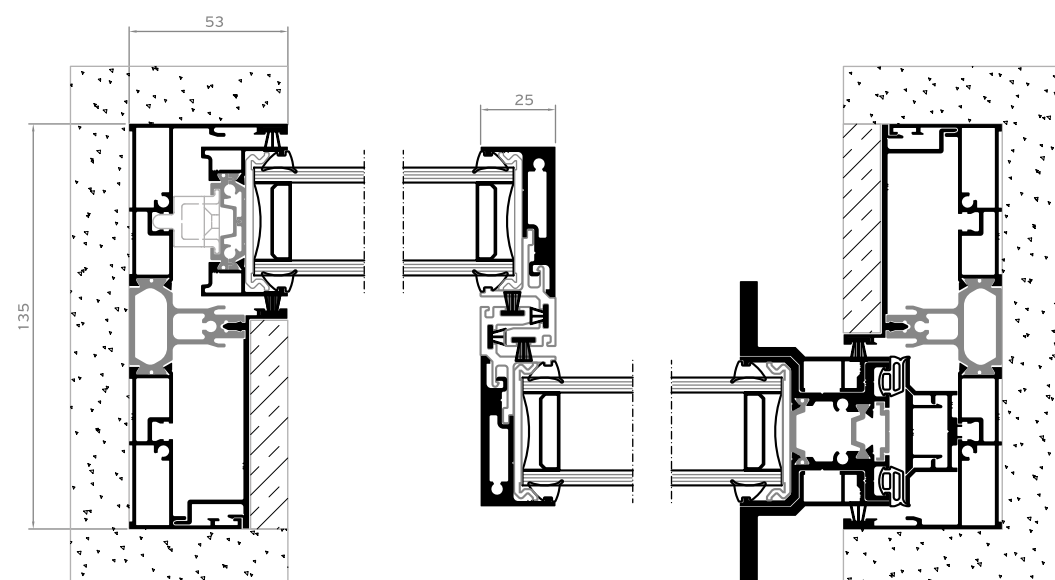
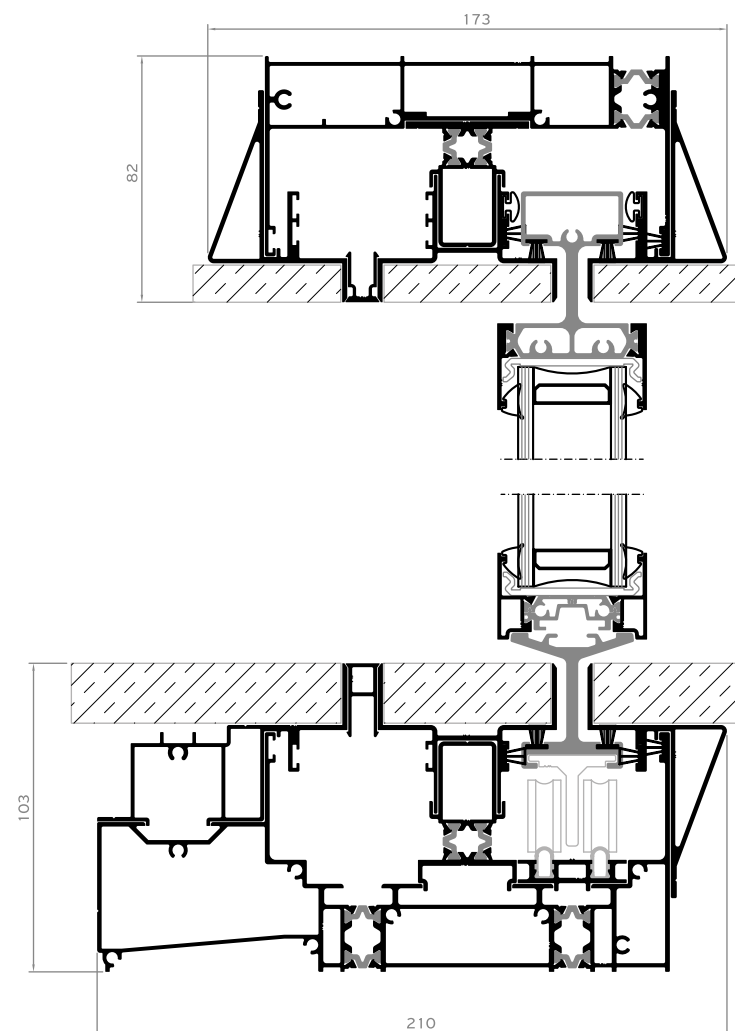
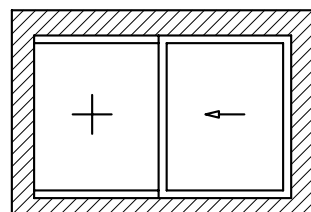
2 Sashes / 2 Track Integrated Flyscreen IFS



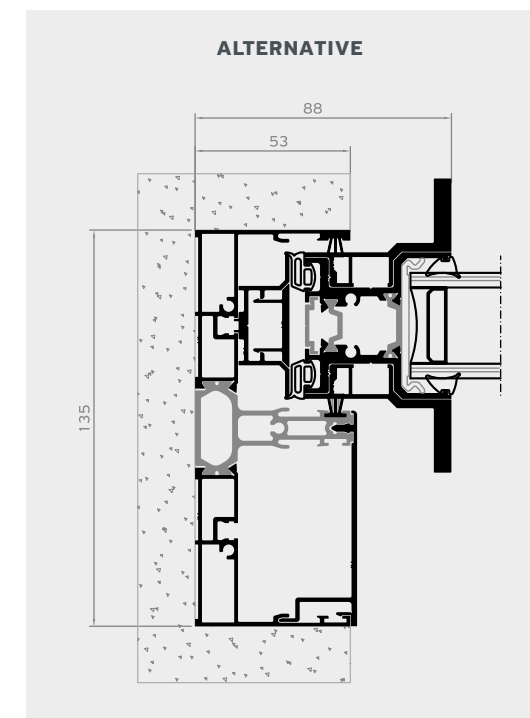
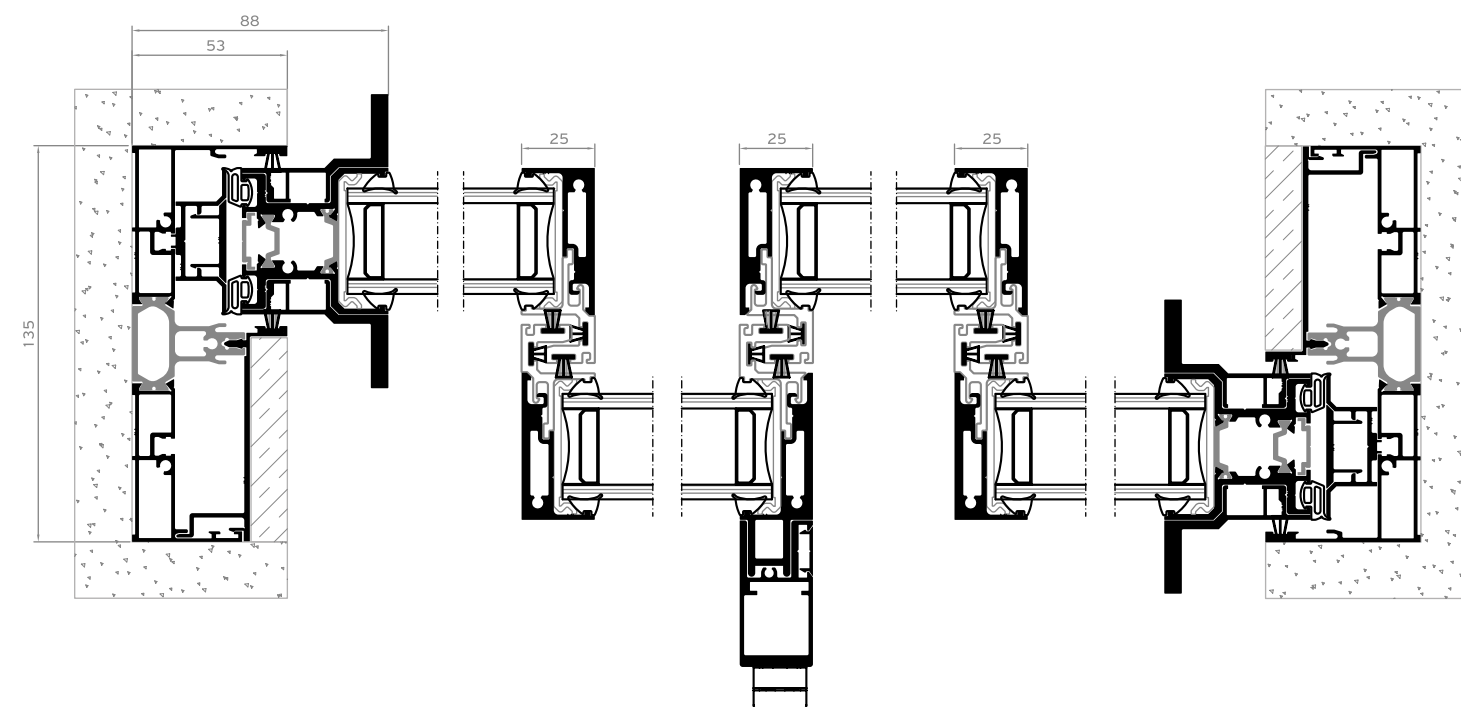
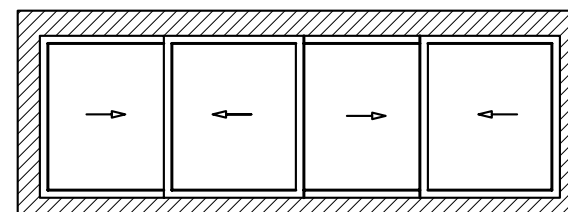
2 Sashes / 2 Track / Integrated Flyscreen IFS / Total Eclipse



1 Sash / 1 Fixed

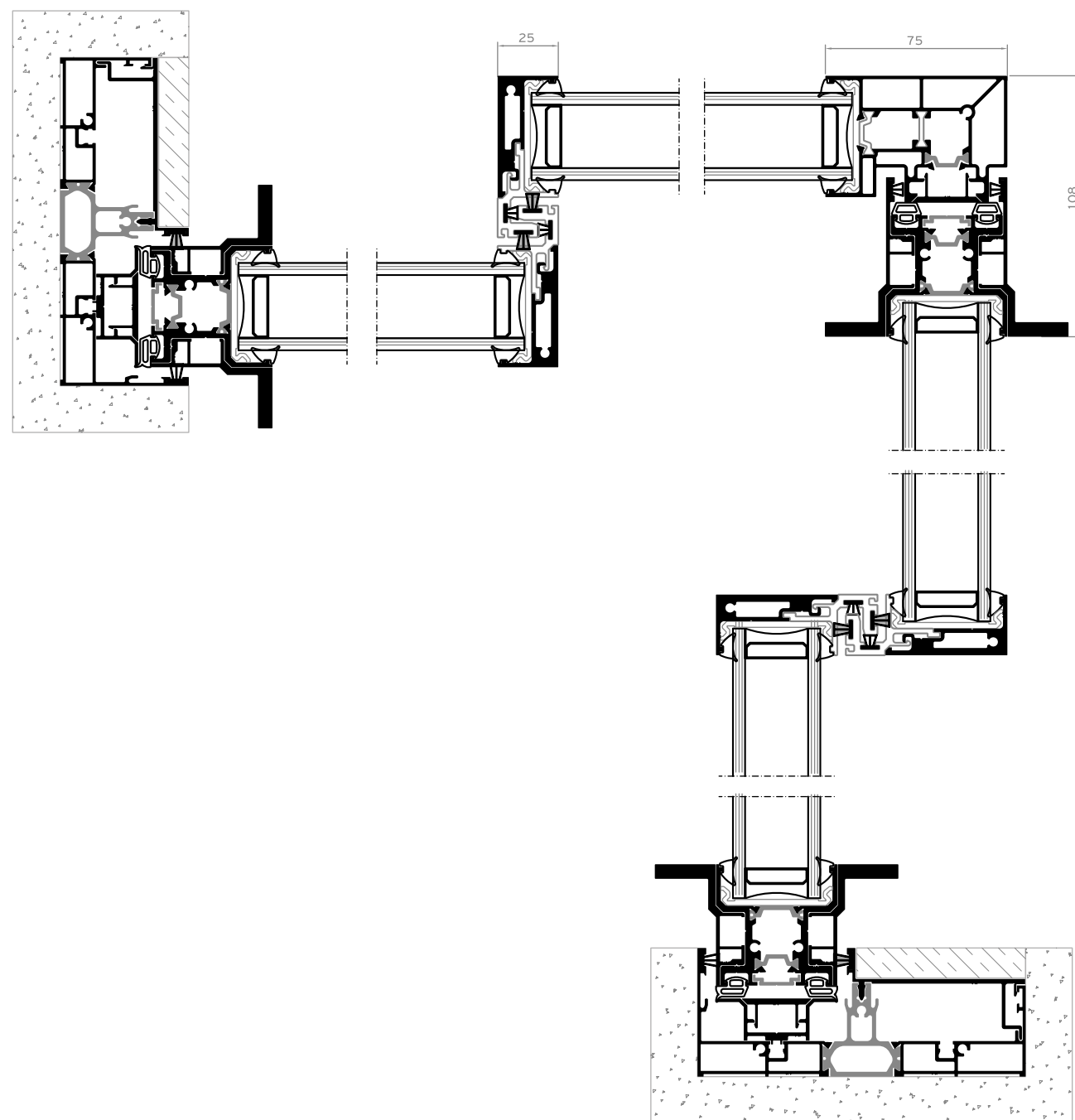
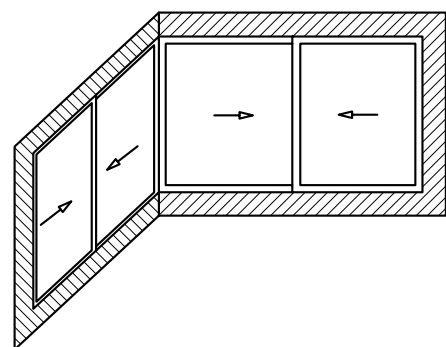


4 Sashes / 2 Track

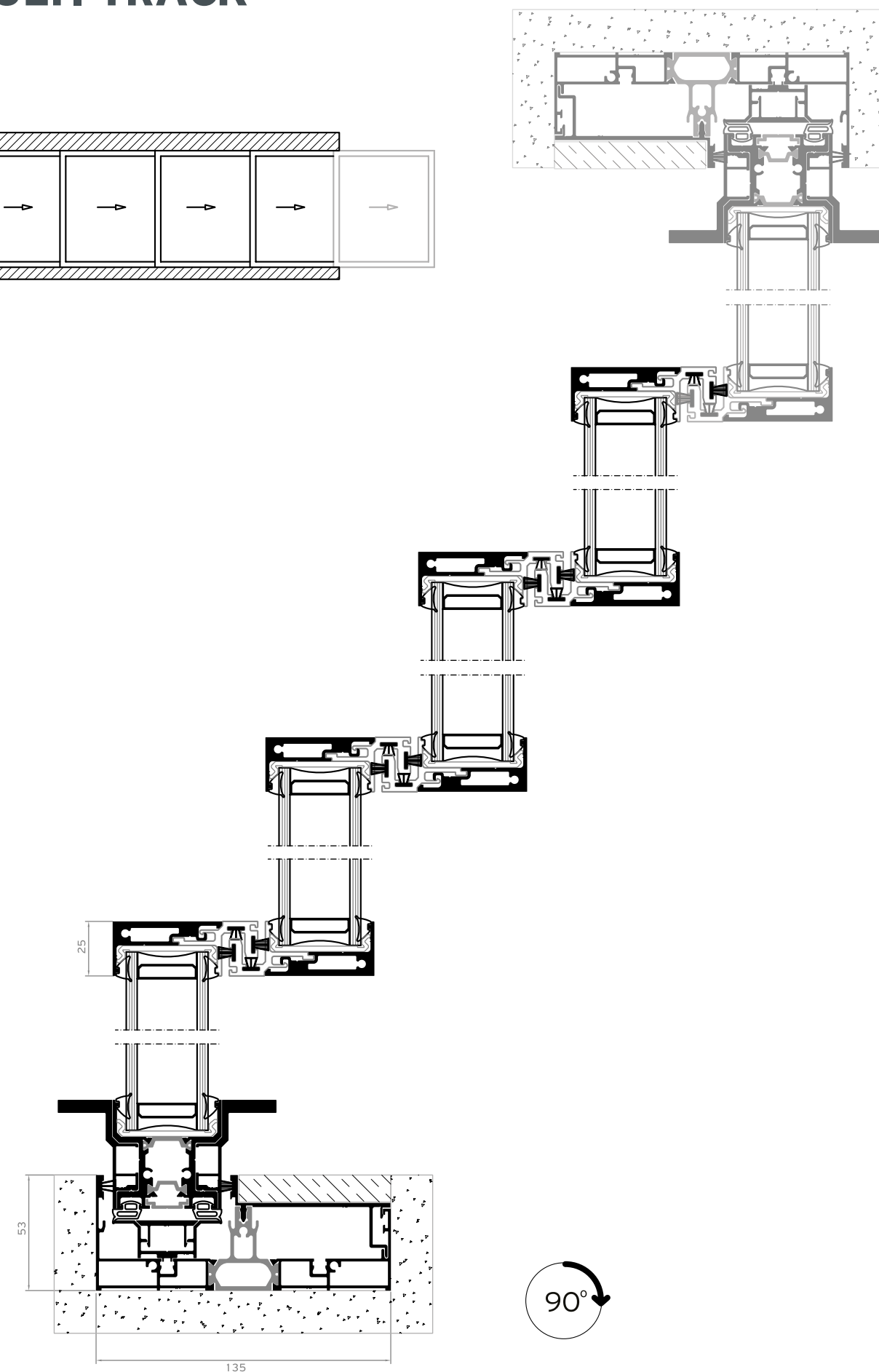
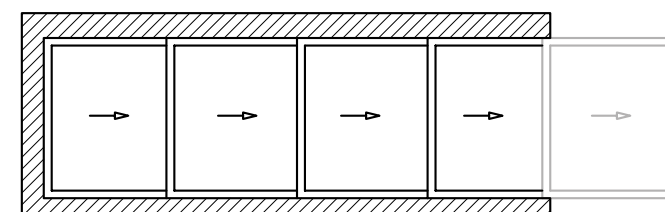


Alumil SUPREME
S500 ECLIPSE

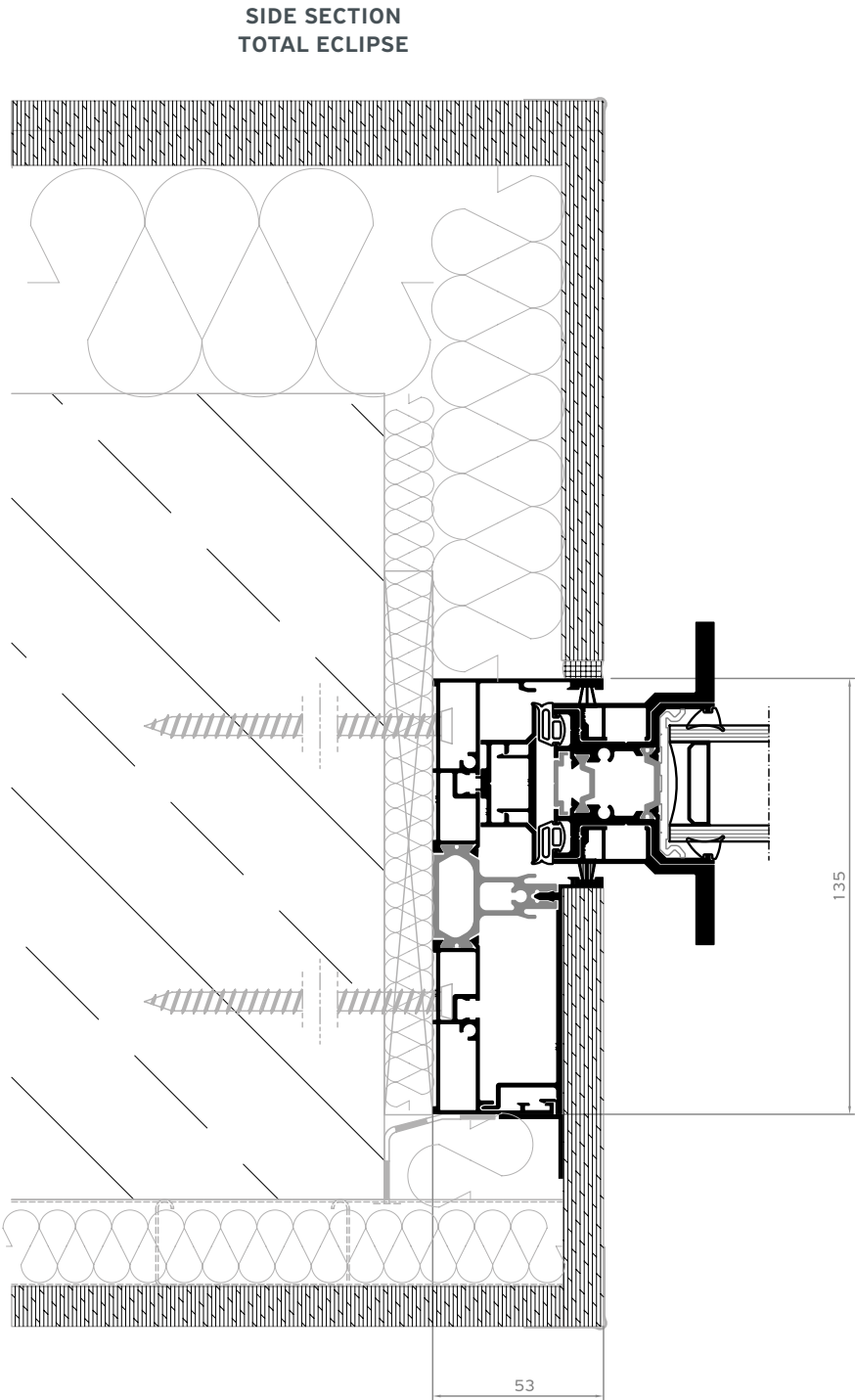
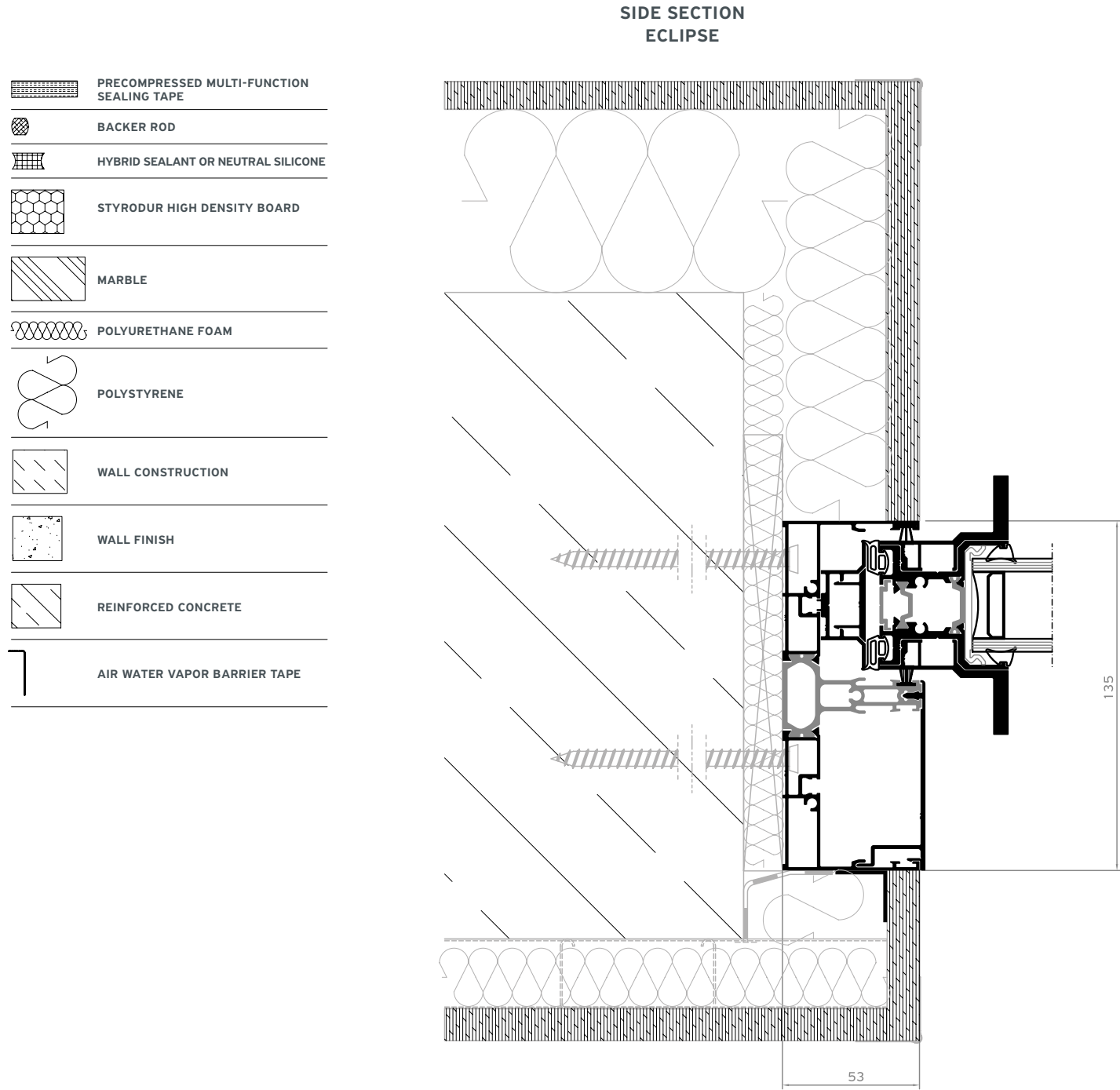
EXTERNAL CORNER



MULTI TRACK

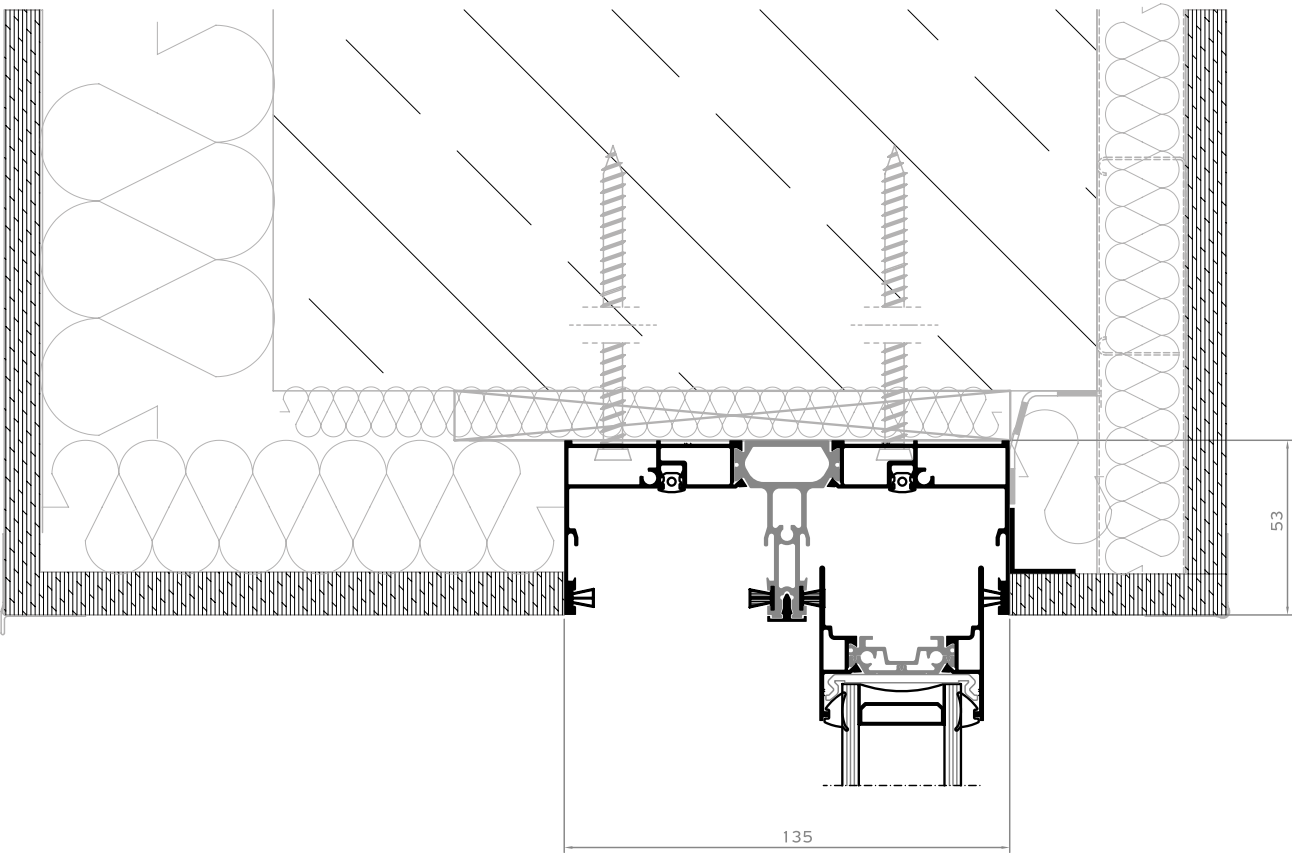


Installation

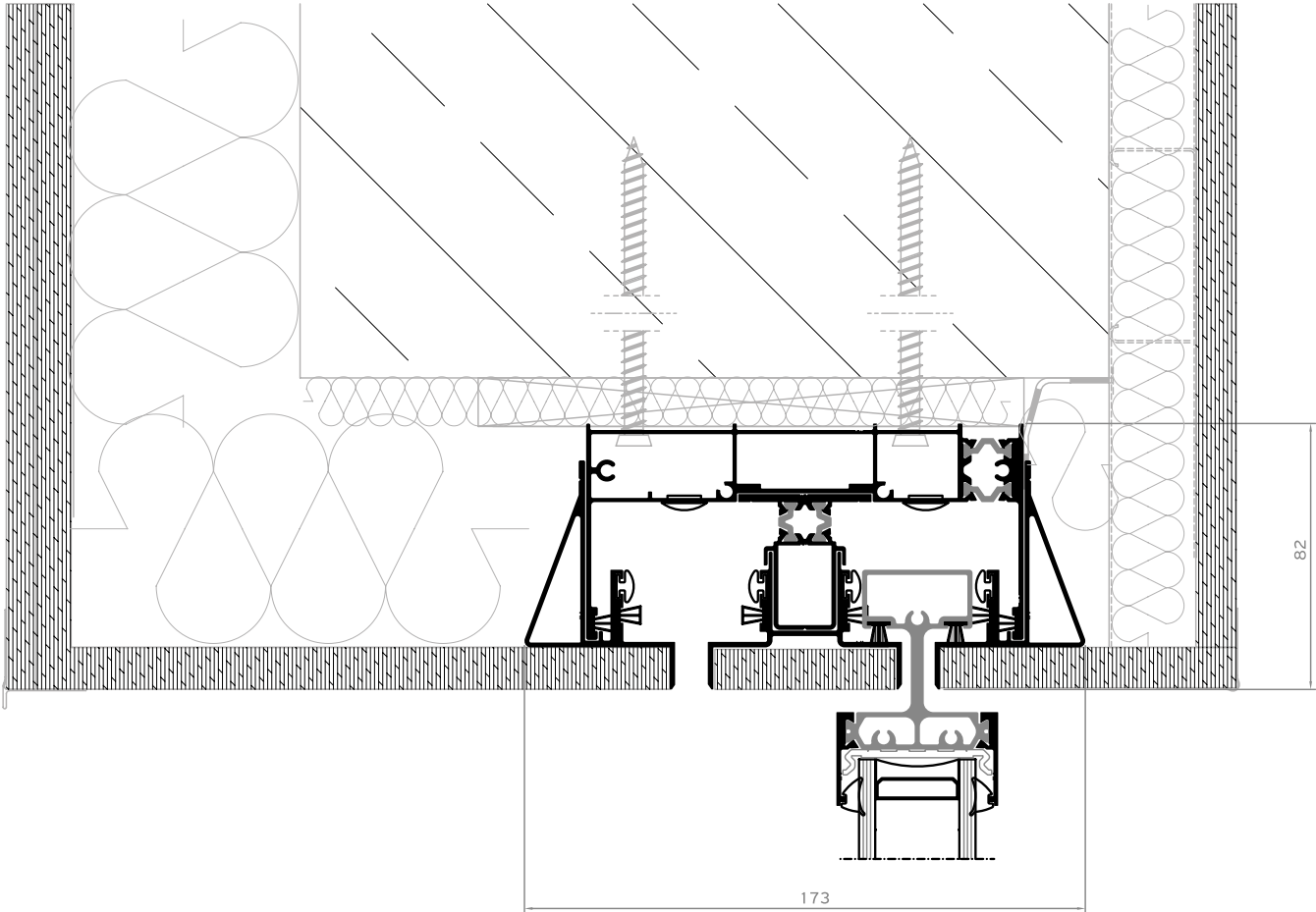


Installation

TOP SECTION
ECLIPSE

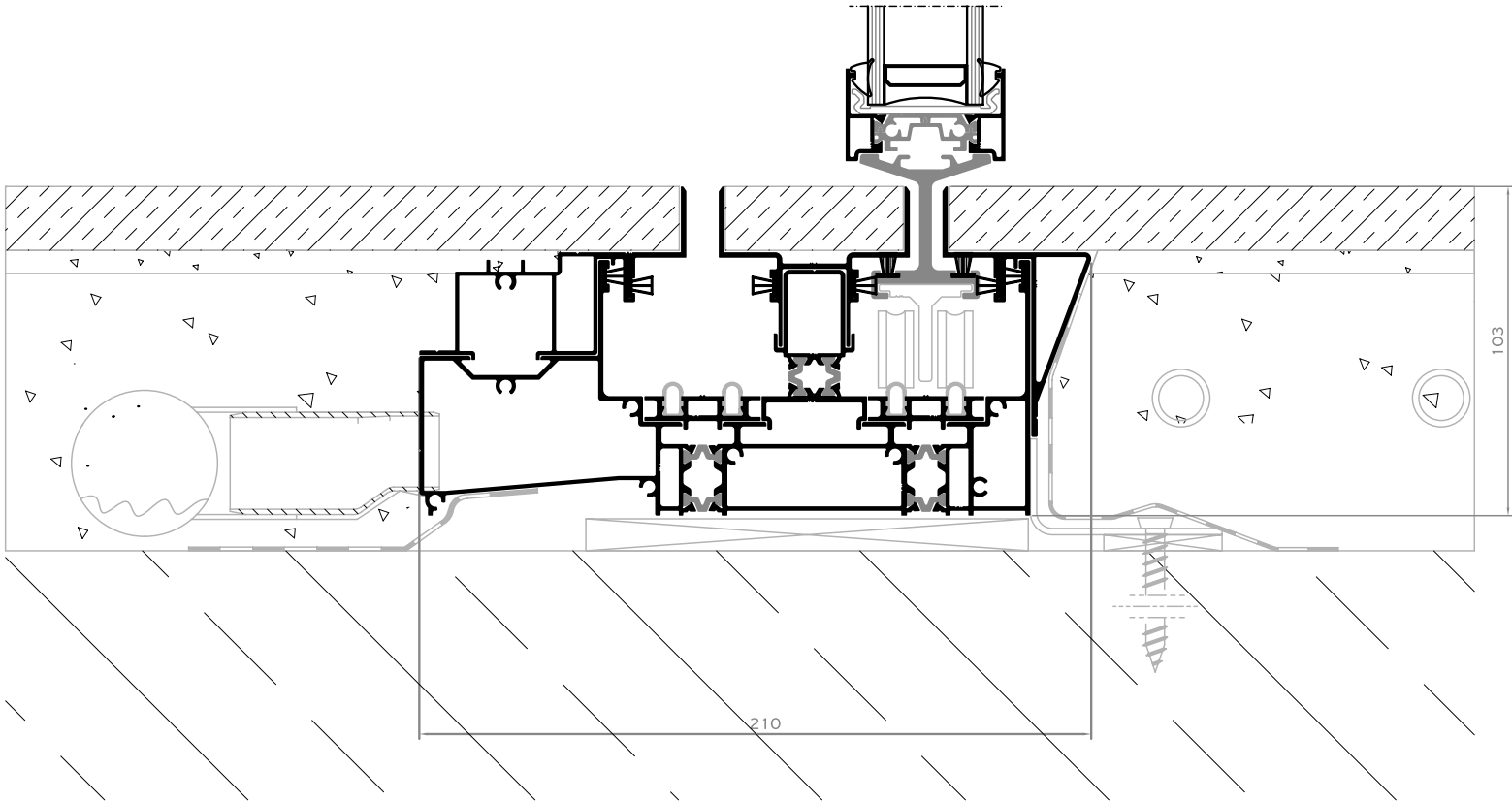


TOP SECTION
TOTAL ECLIPSE

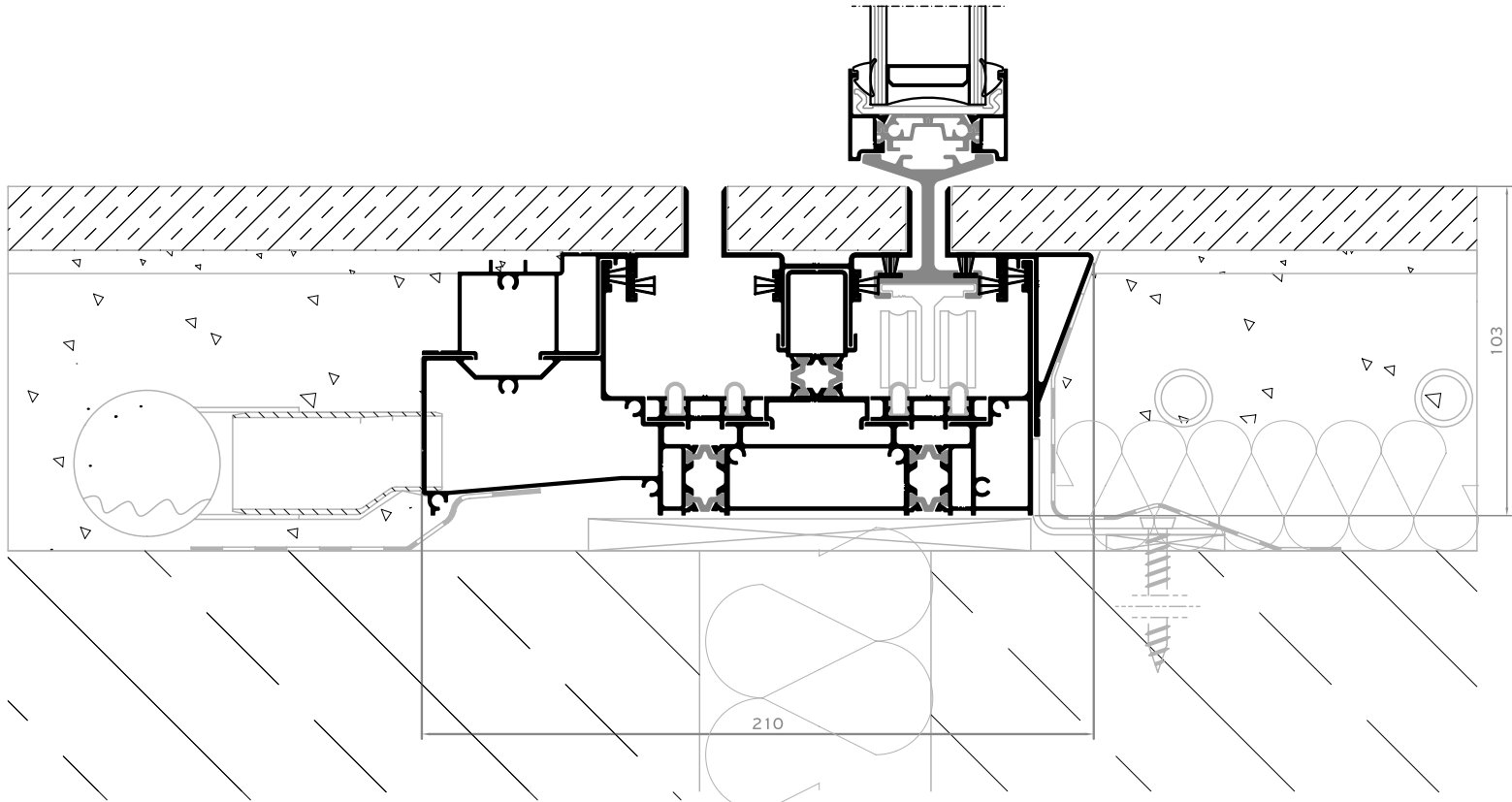


Installation

BOTTOM SECTION
VERSION A

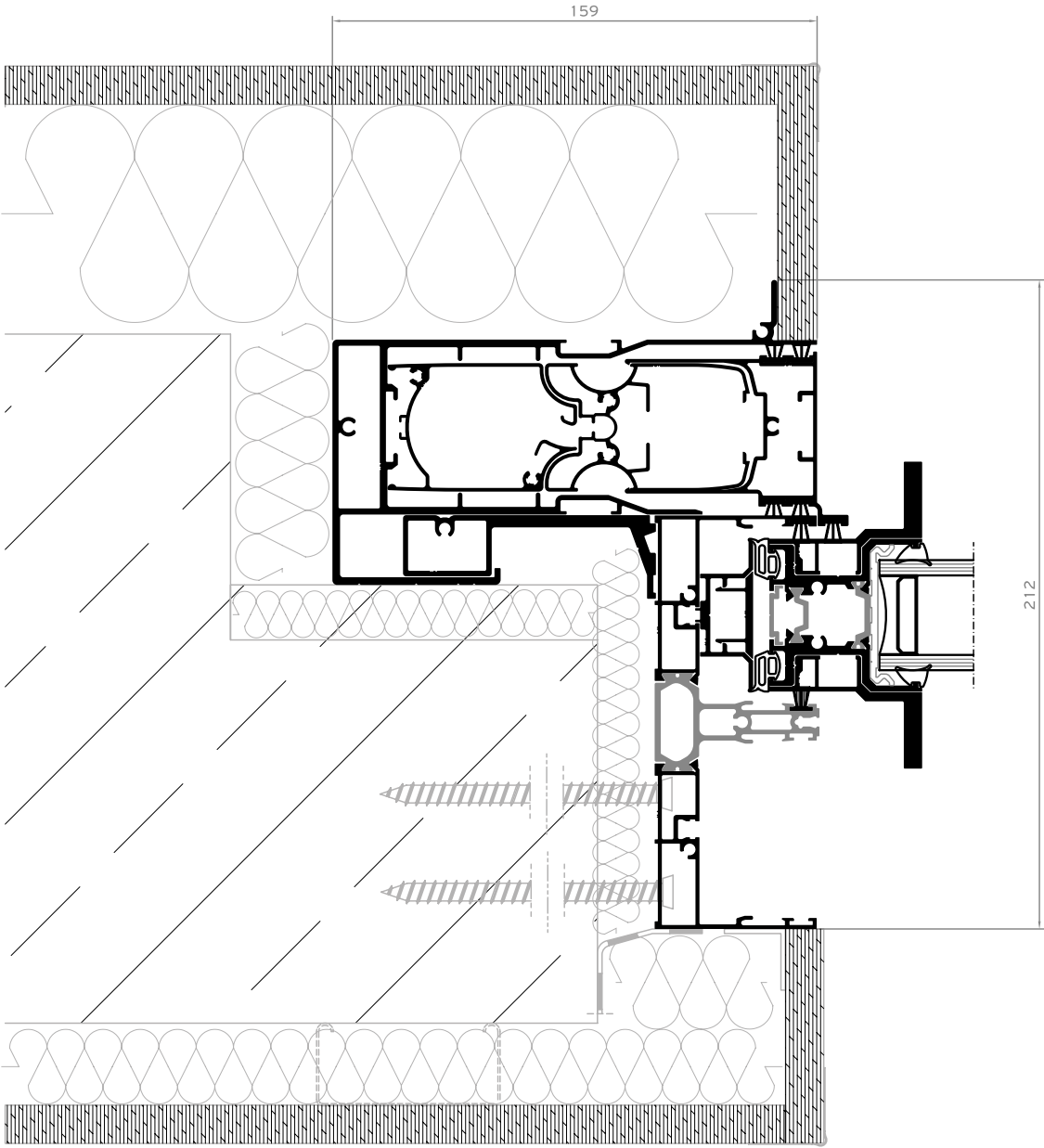


BOTTOM SECTION
VERSION B

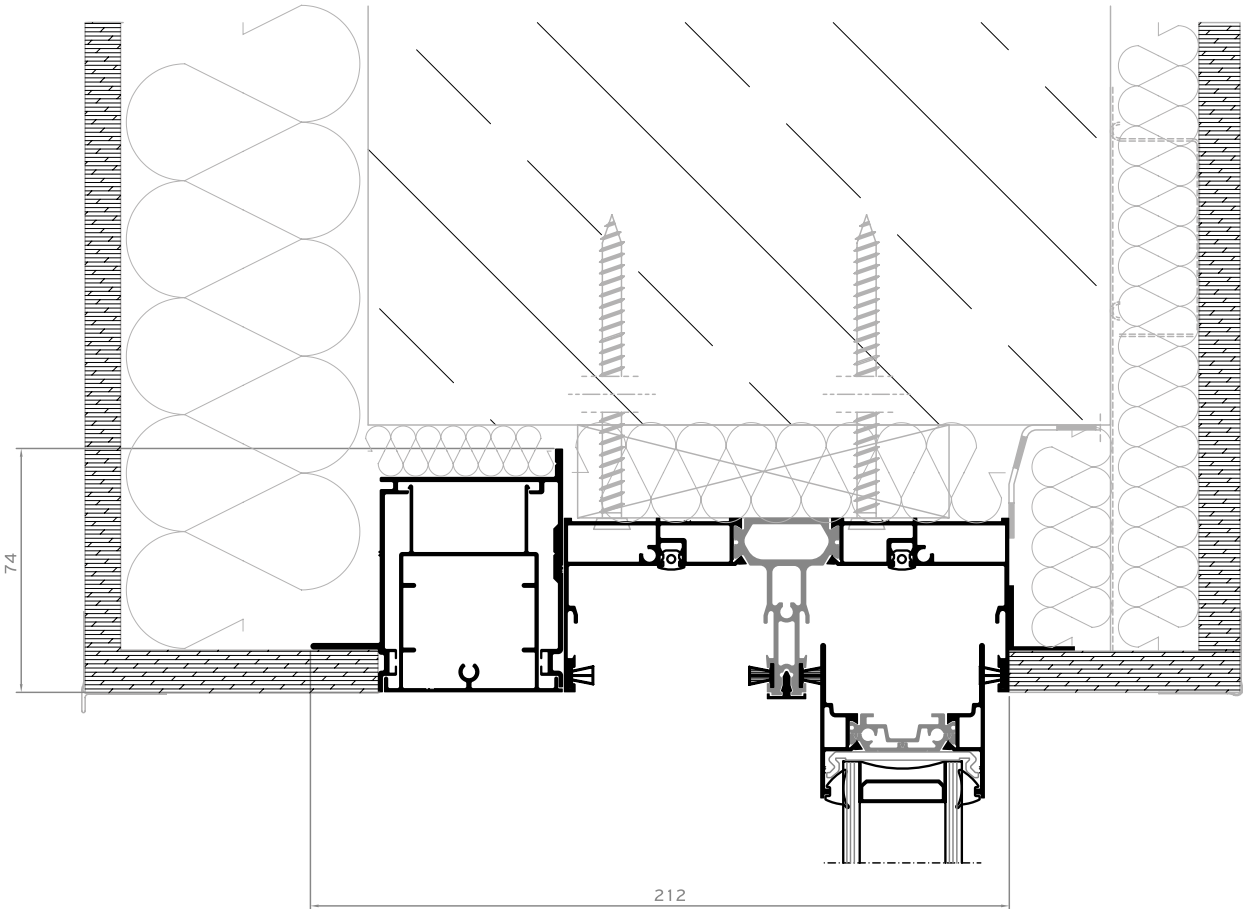


Installation

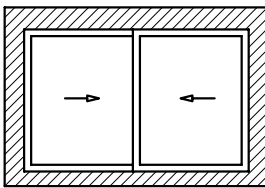
SIDE SECTION
WITH INTEGRATED FLYSCREEN IFS



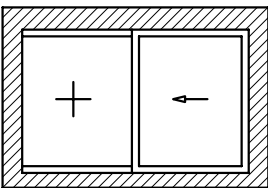
TOP SECTION
WITH INTEGRATED FLYSCREEN IFS



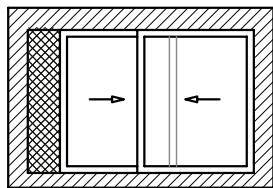
Applications



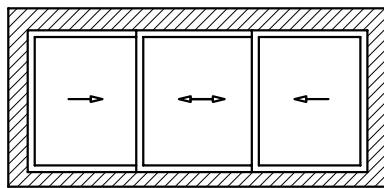
2 SASHES / 2 TRACK



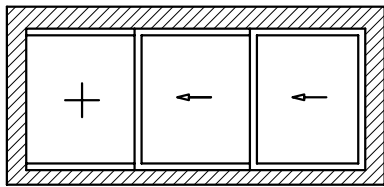
1 SASH / 1 FIXED



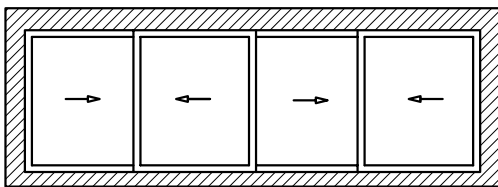
2 SASHES / 2 TRACK
INTEGRATED FLYSCREEN
IFS



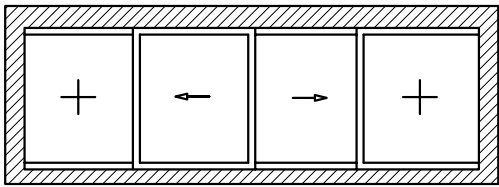
3 SASHES / 3 TRACK



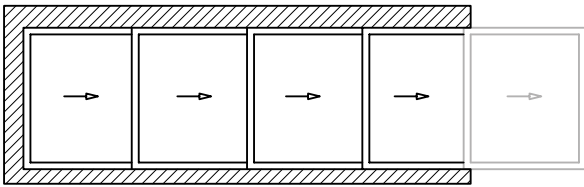
2 SASHES / 1 FIXED



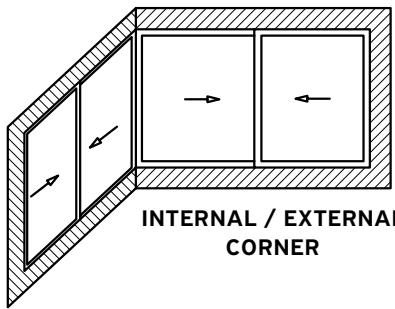
4 SASHES / 2 TRACK



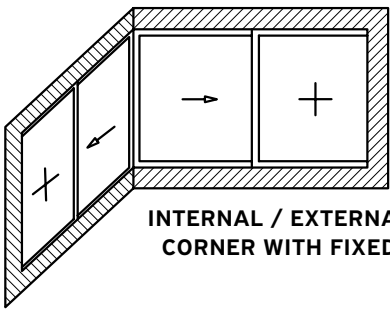
1 FIXED / 2 SASH / 1 FIXED



MULTI TRACK



INTERNAL / EXTERNAL
CORNER



INTERNAL / EXTERNAL
CORNER WITH FIXED

Table of performance

CERTIFICATION



WATER TIGHTNESS
EN 12208



AIR PERMEABILITY
EN 12207



WIND RESISTANCE
MAX TEST PRESSURE
EN 12210



WIND LOAD RESISTANCE
TO FRONTAL DEFLECTION
EN 12210

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)	9A (600 Pa)
1 (150 Pa)		2 (300 Pa)		3 (600 Pa)		4 (600 Pa)		
1 (400 Pa)		2 (800 Pa)		3 (1200 Pa)		4 (1600 Pa)	5 (2000 Pa)	
A (≤ 1/150)			B (≤ 1/200)			C (≤ 1/300)		

THERMAL PERFORMANCE

	DIMENSIONS IN MM (W x H)	U _w in W/m² K (U _g = 0,8)	U _w in W/m² K (U _g = 1,0)	U _w in W/m² K (U _g = 1,1)
2 SASHES / 2 TRACK	2600 x 2400	1,39	1,55	1,64
2 SASHES / 2 TRACK	4000 x 3000	1,23	1,40	1,49

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EN NOV 2023

The Alumil logo is displayed in a large, white, sans-serif font. The letter 'A' is stylized with a diagonal slash. A small yellow square is positioned between the 'i' and the 'l'. The logo is set against a background of a modern outdoor terrace with stone walls, large glass windows, and outdoor furniture, with a swimming pool in the foreground. A large yellow diagonal graphic element is on the right side of the page.

alumil