



alumil
Building excellence every day

 **SUPREME**
SF85

AT ALUMIL,
WE ARE BUILDING
EXCELLENCE
EVERY DAY.

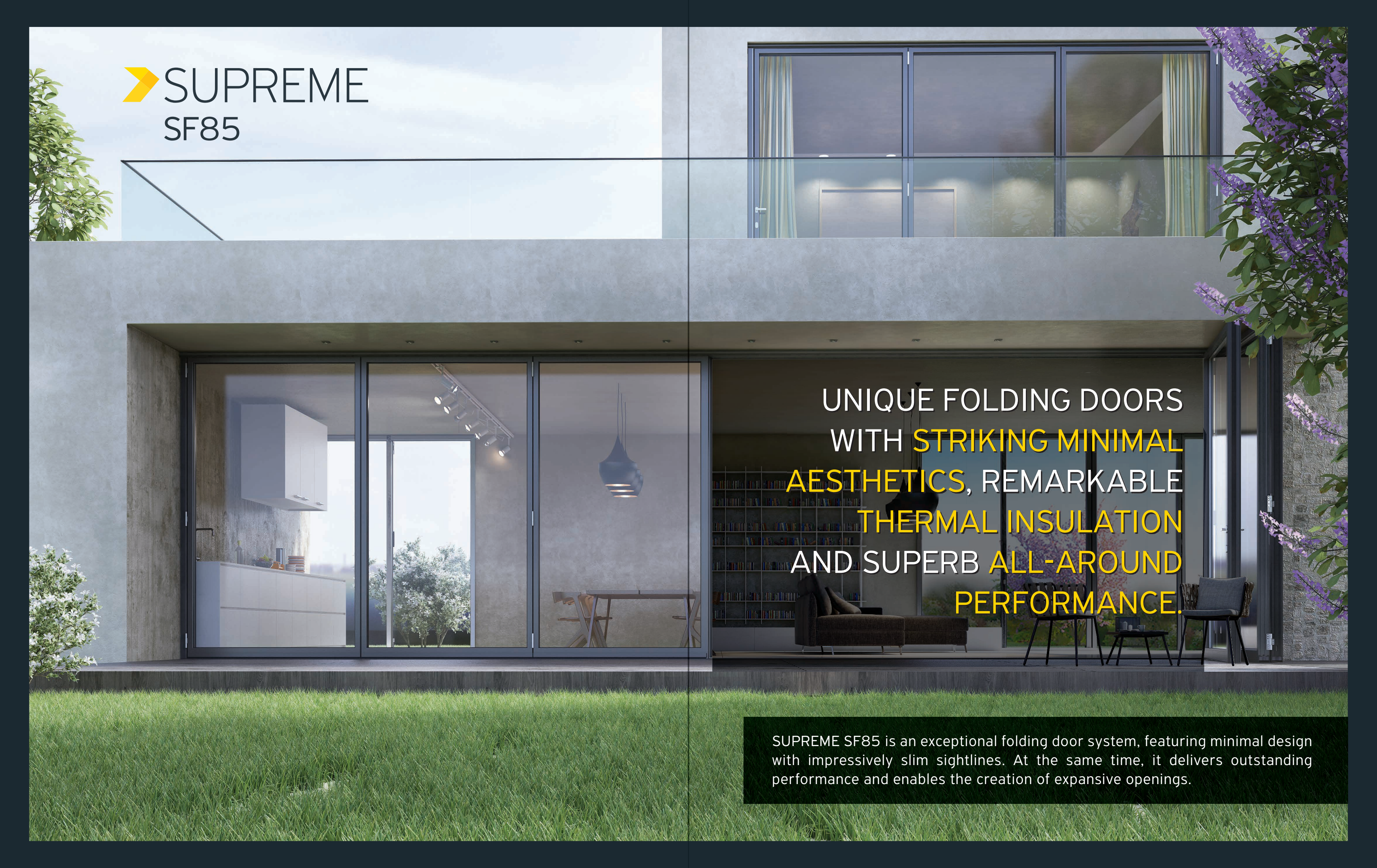
THROUGH OUR MODERN FACILITIES AND STRICT QUALITY CONTROLS ALONG THE ENTIRE PRODUCTION LINE, WE ENSURE THE CREATION OF HIGH-QUALITY AND ADDED-VALUE PRODUCTS. OUR CONTINUOUS RESEARCH AND DEVELOPMENT LEAD TO THE OFFER OF UNIQUE SOLUTIONS WITH INNOVATIVE FEATURES, WHICH COMPLETELY COVER THE DIFFERENT NEEDS OF OUR CUSTOMERS.



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SUPREME SF85

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> SUPREME
SF85

UNIQUE FOLDING DOORS
WITH **STRIKING MINIMAL**
AESTHETICS, REMARKABLE
THERMAL INSULATION
AND SUPERB **ALL-AROUND**
PERFORMANCE.

SUPREME SF85 is an exceptional folding door system, featuring minimal design with impressively slim sightlines. At the same time, it delivers outstanding performance and enables the creation of expansive openings.

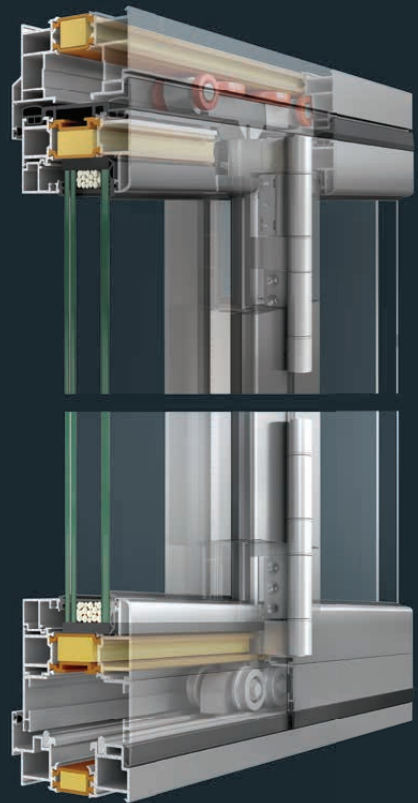


Excellent **energy efficiency** and **security**, combined with timeless aesthetics and remarkably **oversized** constructions

SUPREME SF85 is ideal for flawless high-end residential and commercial applications, including heavy-duty constructions. Its flexibility and the variety of typologies (e.g. even & odd number of vents, corner typologies and semi-structural sash version), provide numerous construction solutions, meeting every need in a very **effective** and **elegant way**.

ADVANTAGES

- Extremely reduced sightlines and unique, minimal design (86 mm & 105 mm face width).
- Very large dimensions in terms of height (up to 4,0 m), vent width (up to 1,5 m) and total construction width (e.g. 9+9 vents).
- Incredibly high thermal insulation for maximum energy saving (U_w 0.9 W/m²K).
- Outstanding performance in terms of watertightness, air permeability and wind load resistance.
- Enhanced security and burglar protection, thanks to quadruple locking latches and anti-lift mechanism.
- Ultra-smooth and long-lasting operation.
- Great variety of typologies, thresholds & sashes (standard, minimal, steel-look, semi-structural).



SPECS

SASH WIDTH
85 MM

SASH TO SASH SIGHTLINE
86 MM & 105 MM

GLAZING
20-53 (STANDARD SASH)
34-75 (SEMI-STRUCTURAL SASH)

THERMAL INSULATION
POLYAMIDES 40 MM WIDTH, ALUMIL NRG BARS
INSULATION & PE INSULATION FOAM

MAIN GASKET
CO-EXTRUDED FOAM & EPDM

PANEL LOCKING
QUADRUPLE LATCHES

VENT WEIGHT
UP TO 200 KG/VENT



TOTAL COMFORT & SENSE OF FREEDOM

AESTHETICS THAT APPEAL TO EVERYONE

Minimal design with amazingly reduced sightlines and less aluminium, since the system allows constructions of much wider vents and consequently fewer of them are needed to cover large spans (e.g. five vents instead of seven).

- ♦ Aluminium face width (slim versions): 86 mm.
- ♦ Aluminium face width (standard versions): 105 mm.
- ♦ Vent width can reach up to 1,5 m, thus, fewer sashes.
- ♦ The variety of sashes enhances design freedom and elevates aesthetic possibilities.

EXTREMELY LARGE DIMENSIONS

The system achieves very large dimensions in terms of:

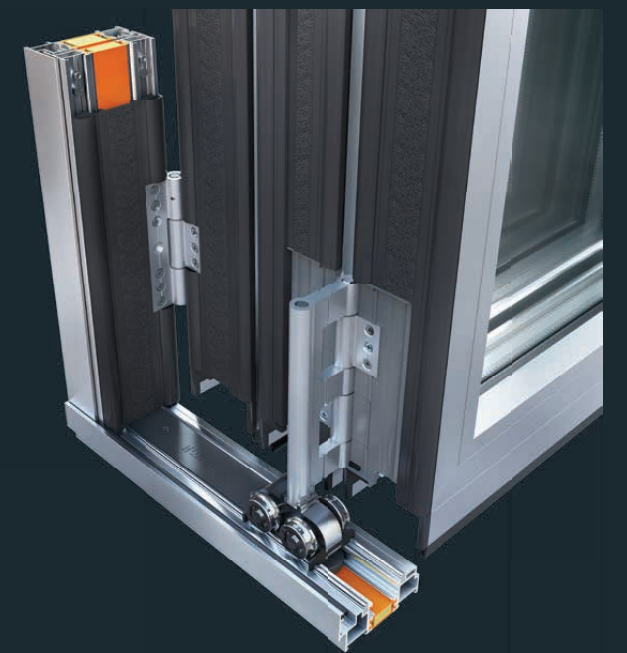
- ♦ Height: up to 4 m.
- ♦ Total width: wide spans & large number of vents (9+9 meeting style).

PERFORMANCE & RELIABILITY

Smooth, long-lasting and flawless operation, thanks to the special top and bottom roller-hinges, the heavy-duty hinges and the overall high quality of the system.

Outstanding performance

- ♦ Air permeability: class 4
- ♦ Wind load resistance: class C3/B3
- ♦ Water tightness: class 9A.
- ♦ Certified by the ift Rosenheim Institute.



Ideal for modern residences, especially when wider vents are required (e.g. 3 vents of 1,5 m width each, instead of 5 vents of 0,9 m width).

Ideal for commercial projects with structures of 4 m height and with a large number of vents.



EXTREMELY HIGH THERMAL EFFICIENCY

High energy saving with U_w values around $1,0 \text{ W/m}^2\text{K}$, thanks to co-extruded EPDM foam gasket, ALUMIL NRG Bars, 40 mm width polyamides, PE insulation foam and the overall sophisticated design.

TOP LEVEL OF SECURITY

Enhanced burglar protection levels, which meet all industry security standards thanks to:

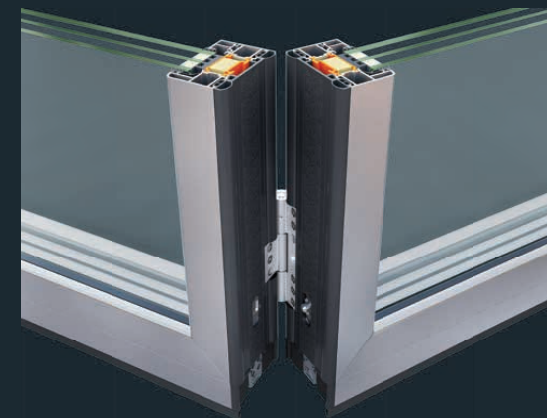
- ♦ Quadrupel shoot bolts from glass reinforced polyamide (instead double) or anodised aluminium.
- ♦ Bottom roller-hinge with anti-lift mechanism.
- ♦ Profile and hinges sturdiness.
- ♦ 5-point lock.
- ♦ Possibility for very thick glazing (20-53 mm) and reinforcing infills.

VARIETY AND FLEXIBILITY

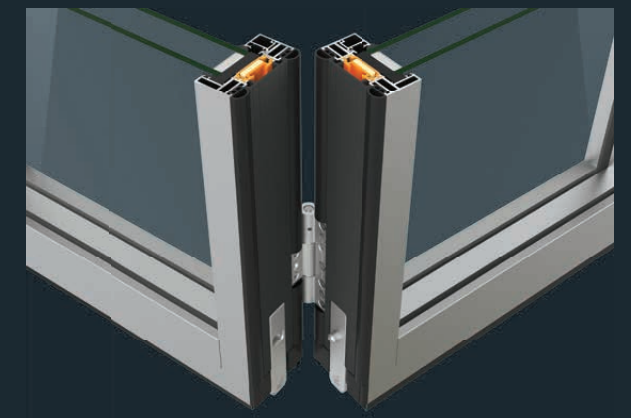
Vast variety of folding door solutions, thanks to the numerous typologies and the flexible design of the system.

- ♦ Odd number of vents (e.g. 3+0, 7+1, 5+3, 9+9).
- ♦ Even number of vents (e.g. 4+0, 2+1, 4+3, 2+2, 8+8).
- ♦ Corner constructions.
- ♦ Sash versions: standard, minimal, semi-structural, steel look
- ♦ Inwards or outwards opening.
- ♦ Threshold versions: standard, low & embedded.

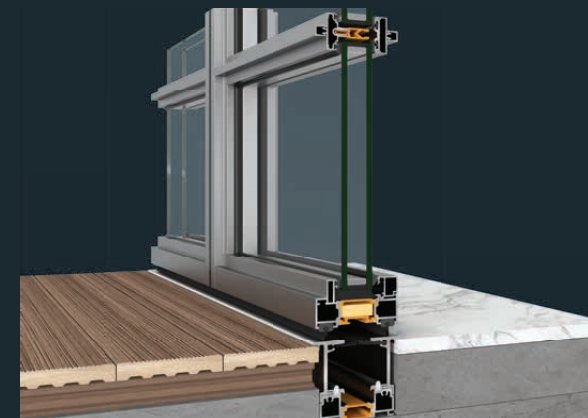
SASHES SELECTION



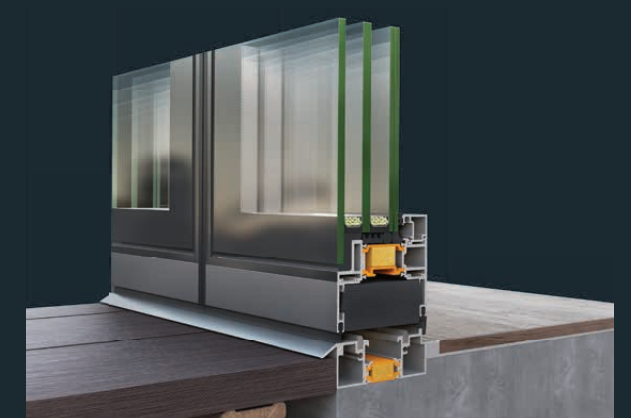
Standard flat sash (105 mm)



Minimal flat sash (86 mm)



Steel-look sash (86 mm)



Semi-structural sash (27/105 mm)



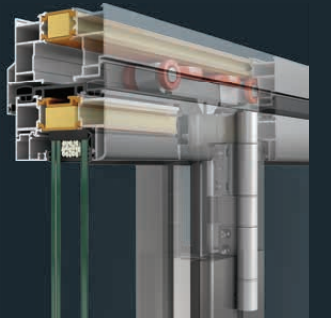
STATE-OF-THE-ART FITTINGS, SPECIALLY DESIGNED
TO ACHIEVE **UNPARALLELED PERFORMANCE** AND
SMOOTH BOTTOM-SLIDE OPERATION.

ATTENTION TO DETAIL

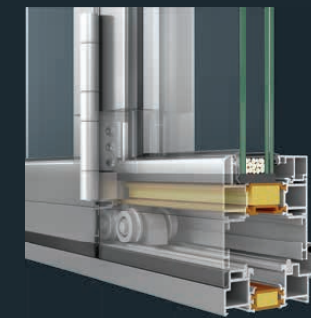
SPECIAL TOP ROLLER-HINGE

Though bottom-slide operation, the top roller-hinge, apart from guiding the vents:

- ♦ allows smooth operation, thanks to a special spring mechanism.
- ♦ is long enough & with vertical rollers to prevent the vents from leaning, even when mishandling.



SPECIAL BOTTOM ROLLER-HINGE



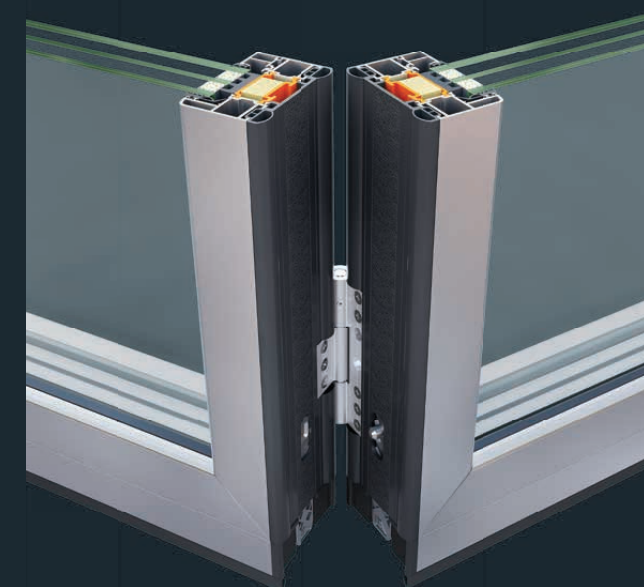
- ♦ Max weight up to 500 Kg (& 200 per vent).
- ♦ Anodised body, stainless steel rollers and rust-protected bearings.
- ♦ Allows very large dimensions.
- ♦ Enables very easy installation and long-lasting flawless operation.
- ♦ Anti-lift prevention fitting for enhanced burglar protection.

FITTINGS FOR EASY HANDLING

- ♦ Extremely efficient heavy-duty hinges.
- ♦ Pull-handle attached on the intermediate hinge.
- ♦ Special ALUMIL design handle for the intermediate vents.
- ♦ ALUMIL design door handle.



ADDITIONAL FEATURES

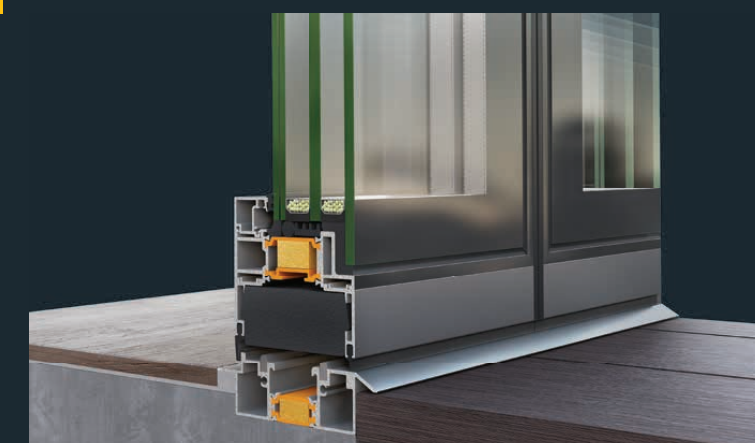


- ♦ Quadruple locking of intermediate vents (reinforced polyamide or anodised aluminium).
- ♦ Single co-extruded gasket made of EPDM and foam.
- ♦ Double set of glass reinforced polyamides 40 mm.
- ♦ ALUMIL NRG bars and PE insulation foam for enhanced thermal insulation.



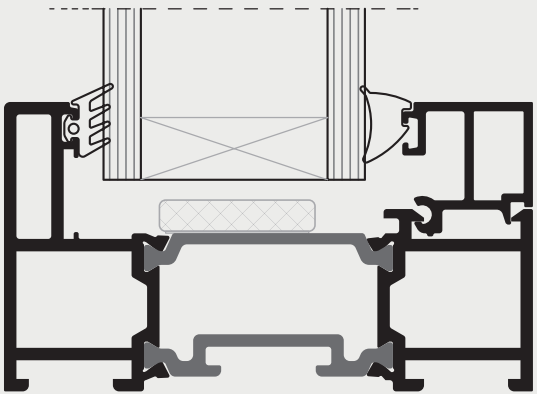
- ♦ Special fittings for easy frame adjustment.
- ♦ Option between solid or hollow inox guide rails.
- ♦ Special caps for holding the vents and hiding top/bottom rail milling.
- ♦ Rubber fitting to cover the guide rail beneath the hinged door.

- ♦ Glazing beads range for various glass thicknesses.
- ♦ Semi-structural version for a unique result.
- ♦ Option between standard or low threshold.

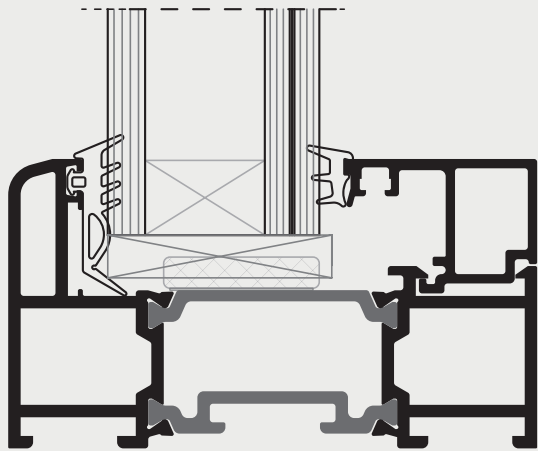


RANGE OF SASHES

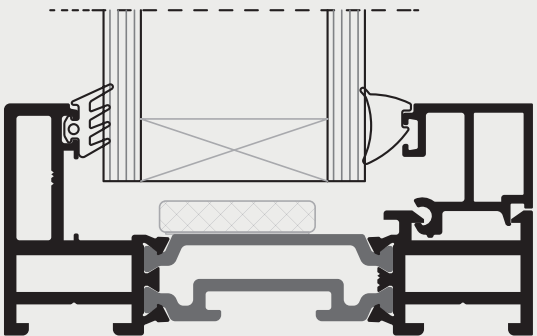
Standard sash



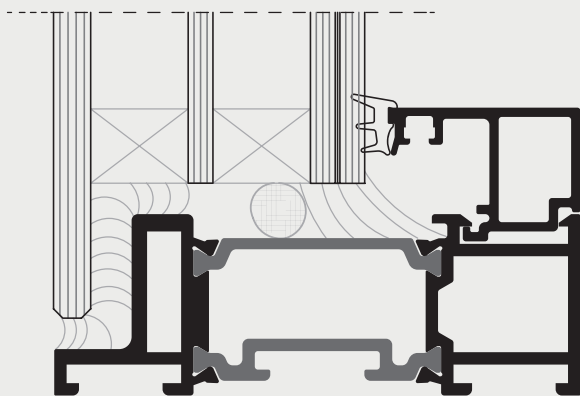
Standard sash (slightly curved)



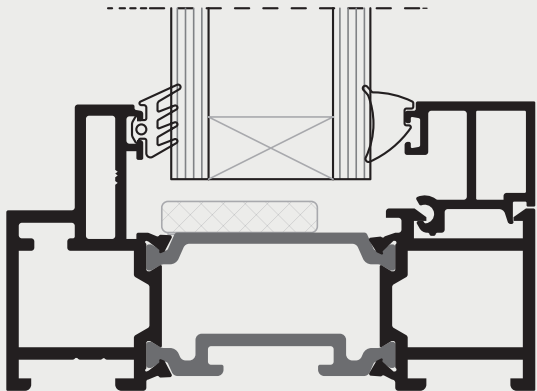
Minimal sash



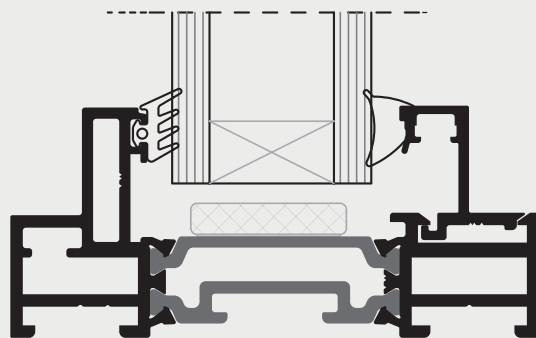
Semi-structural sash



Steel-look sash



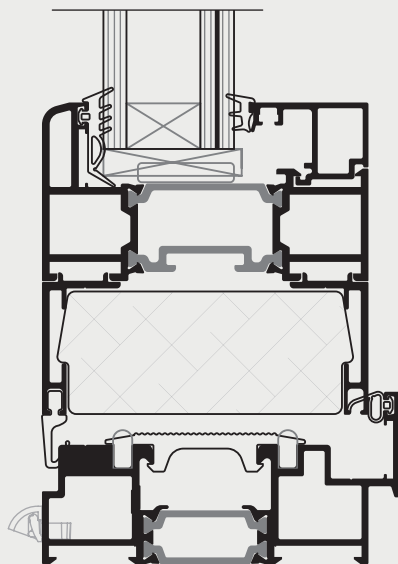
Steel-look minimal sash



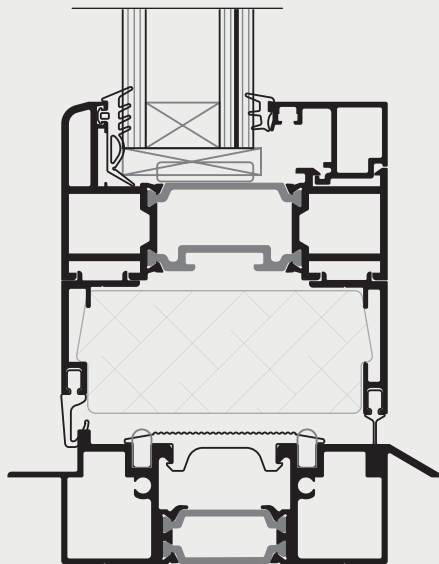
RANGE OF THRESHOLDS



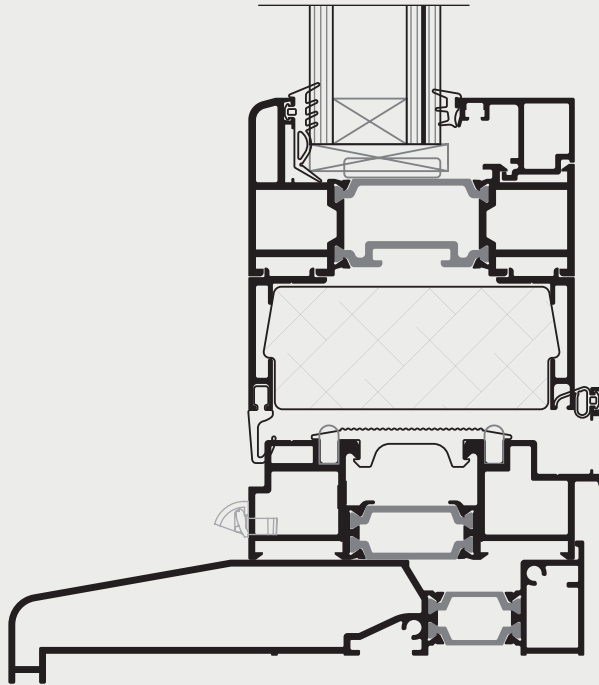
Standard threshold



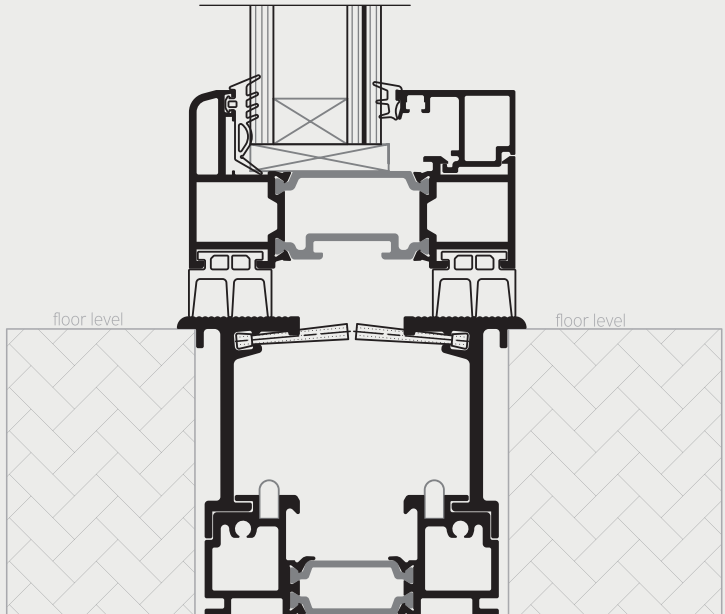
Low threshold



Threshold with subsill

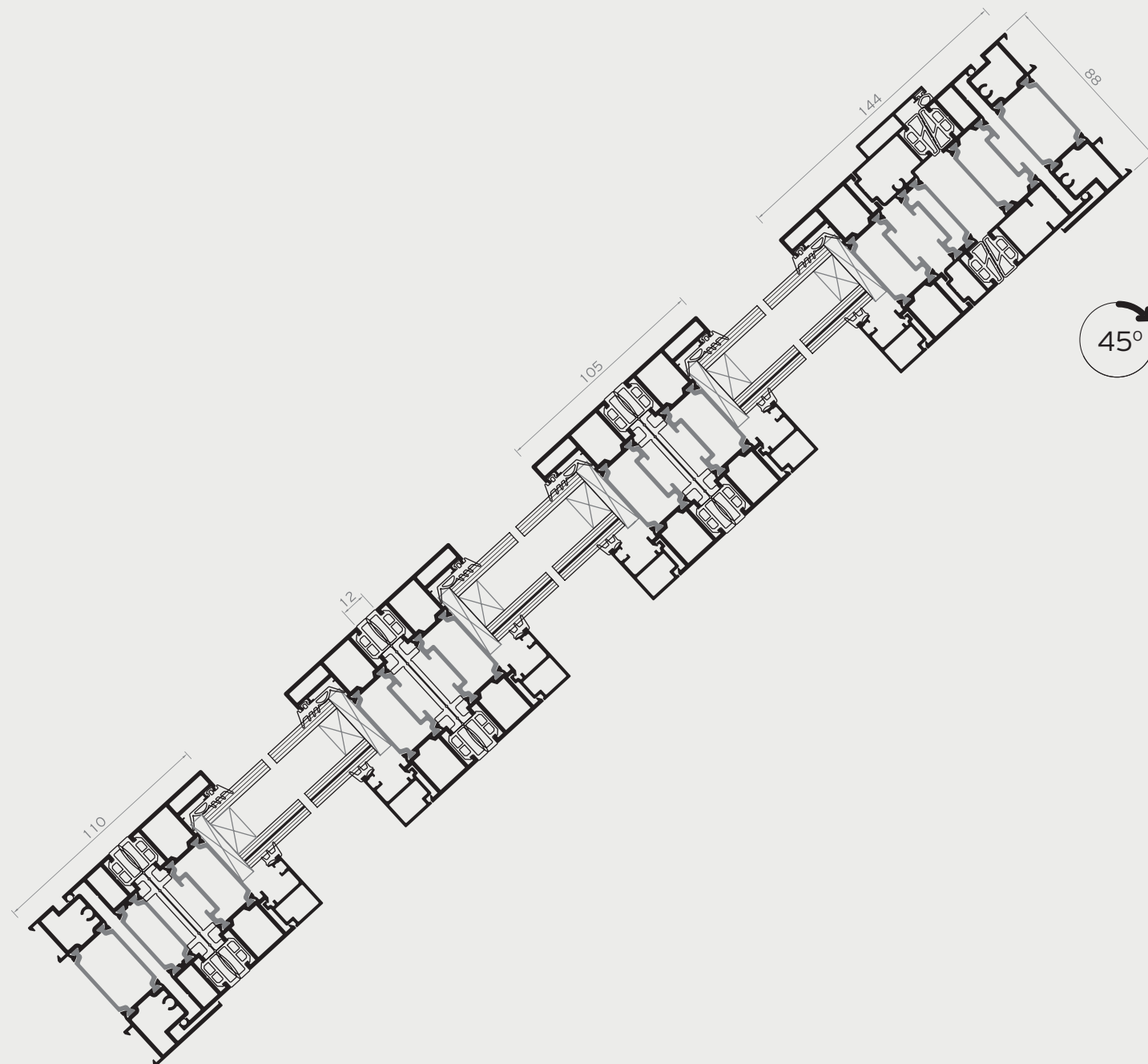
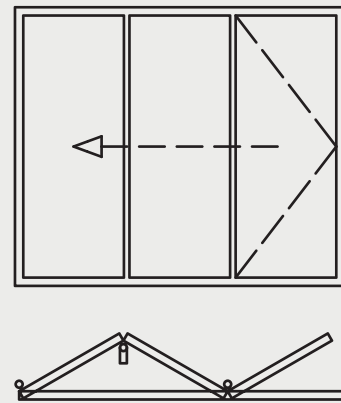


Threshold embedded



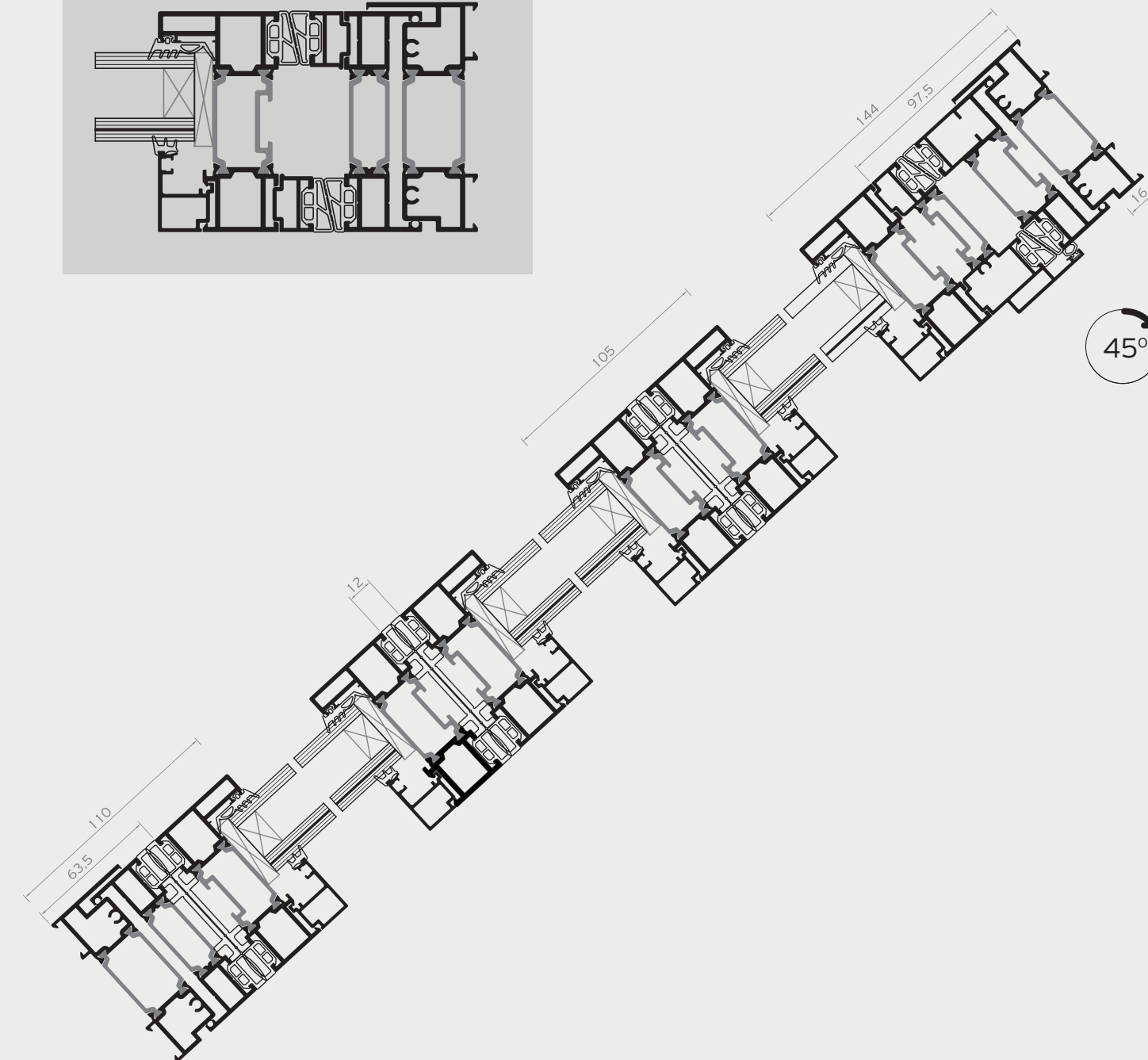
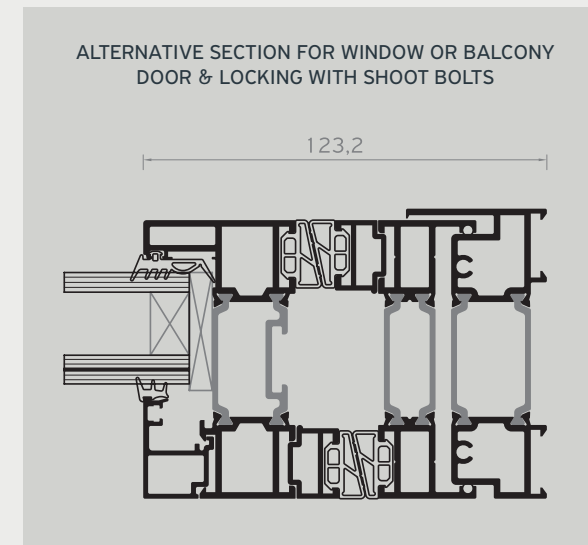
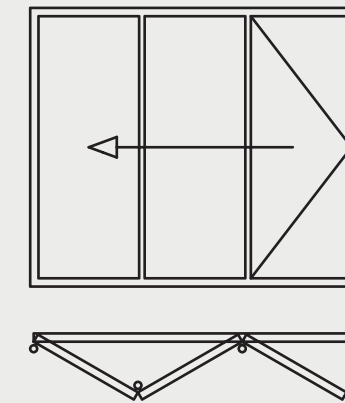
3+0

OPENING OUTWARDS



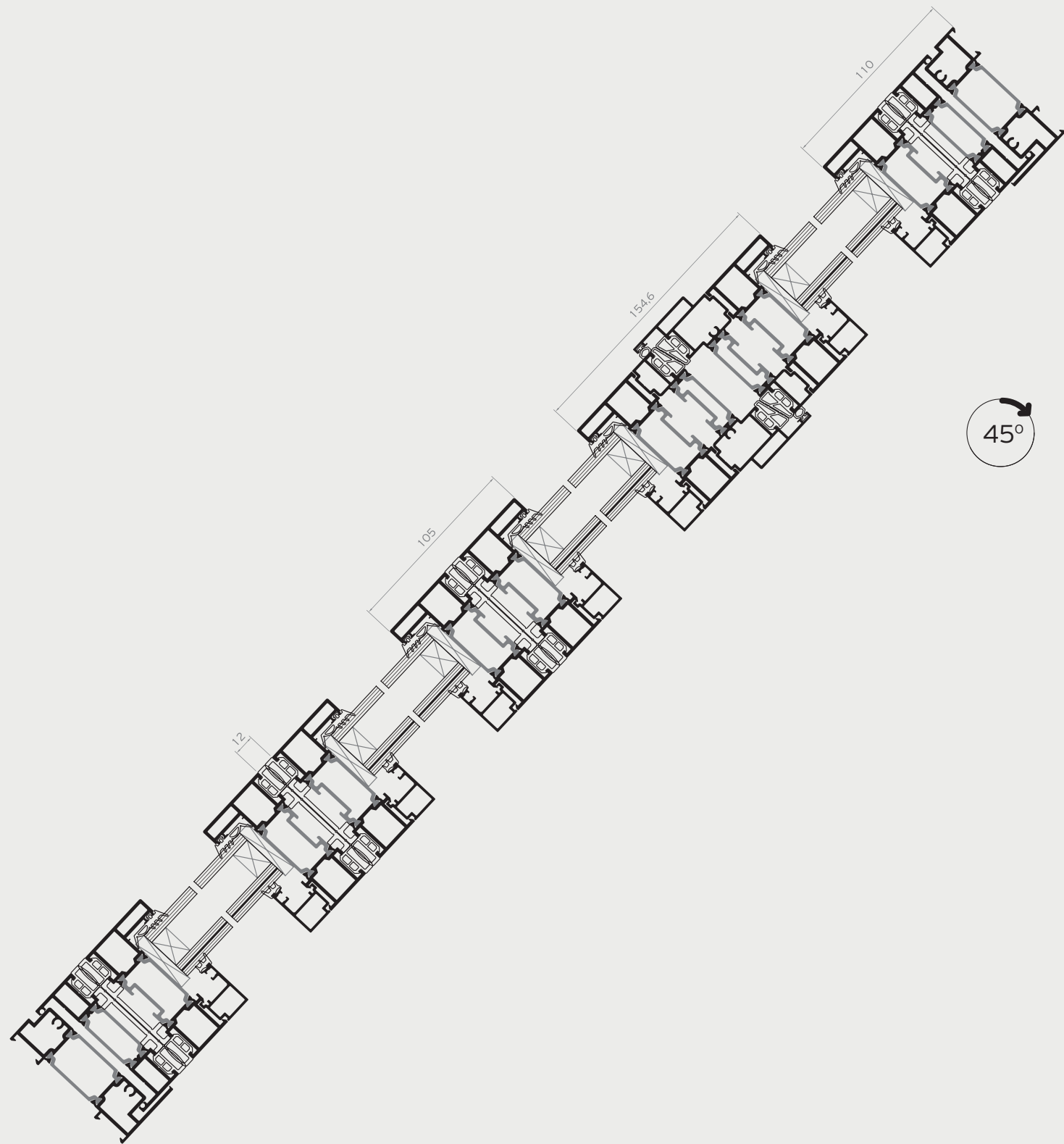
3+0

OPENING INWARDS

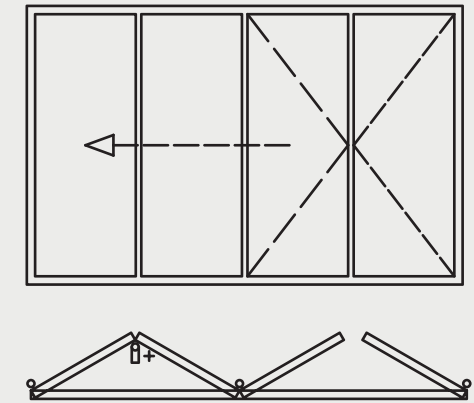


3+1

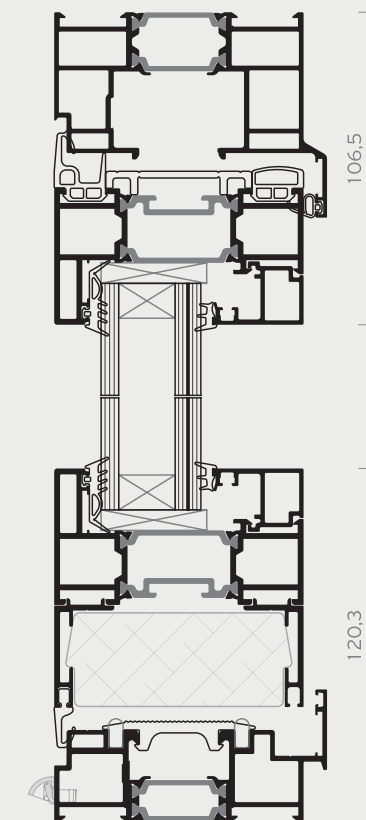
OPENING OUTWARDS



Alumil

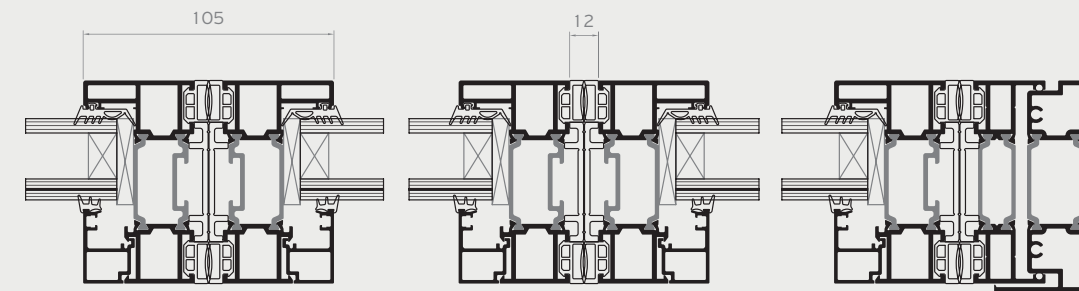
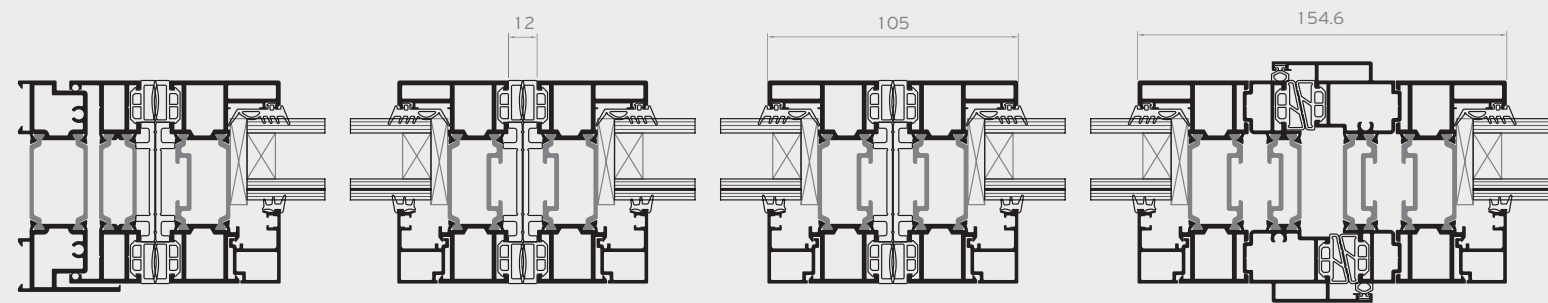
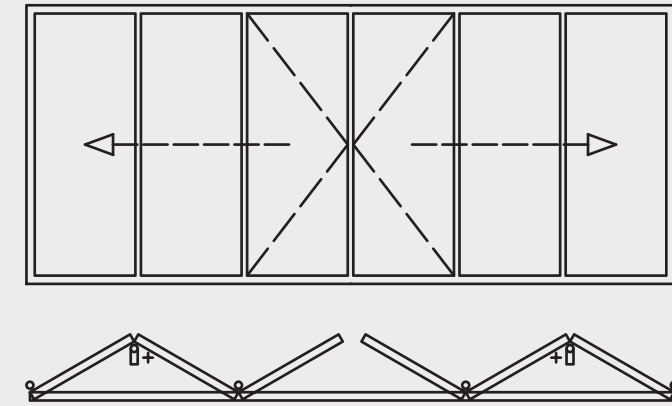


VERTICAL SECTION

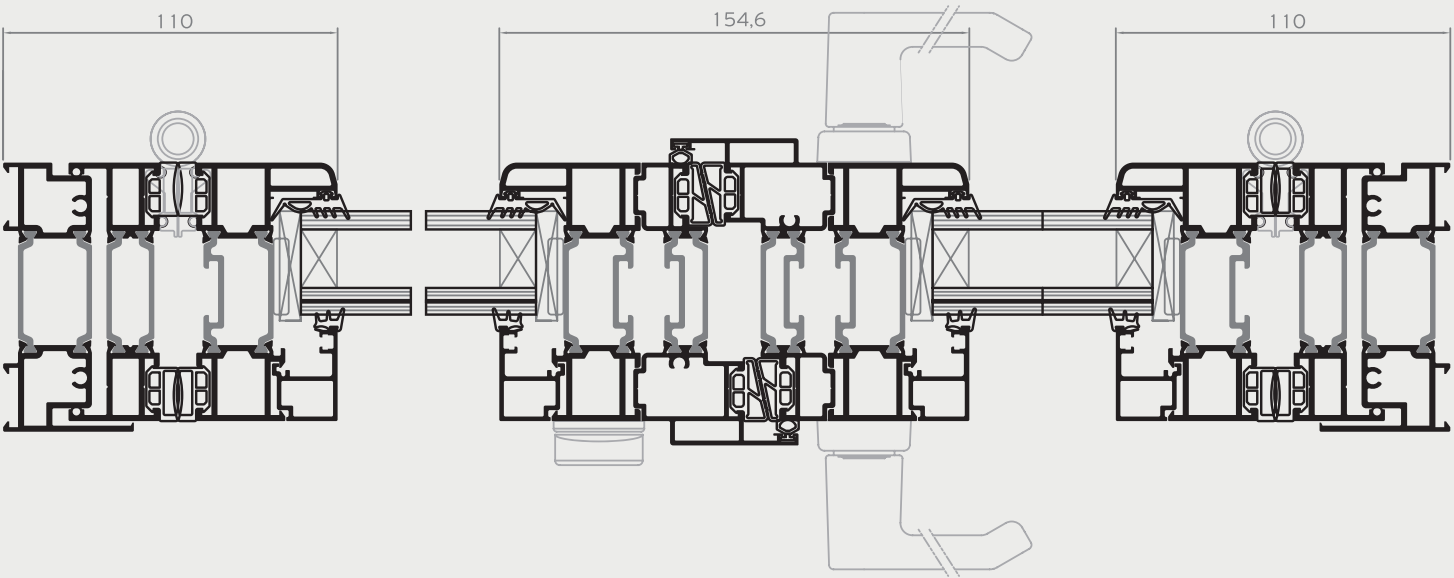
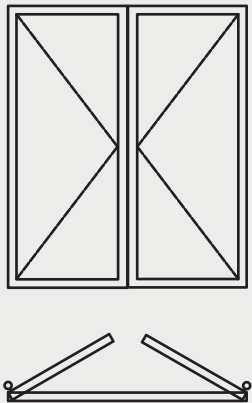


3+3

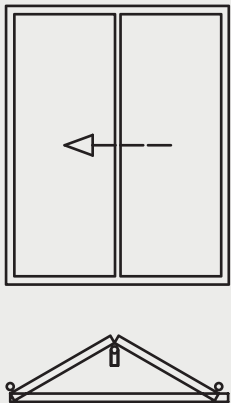
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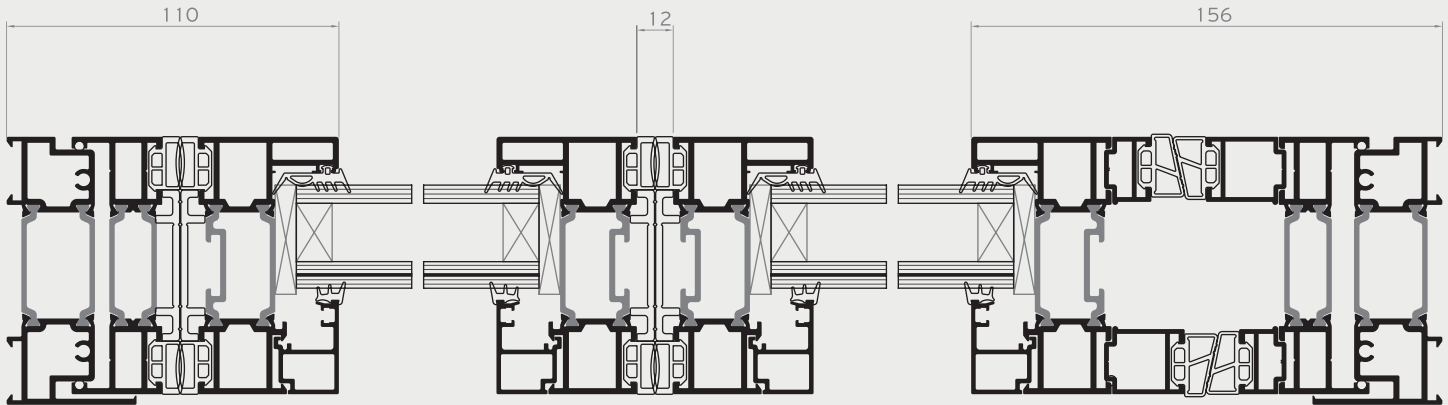
1+1
OPENING OUTWARDS



2+0
OPENING OUTWARDS

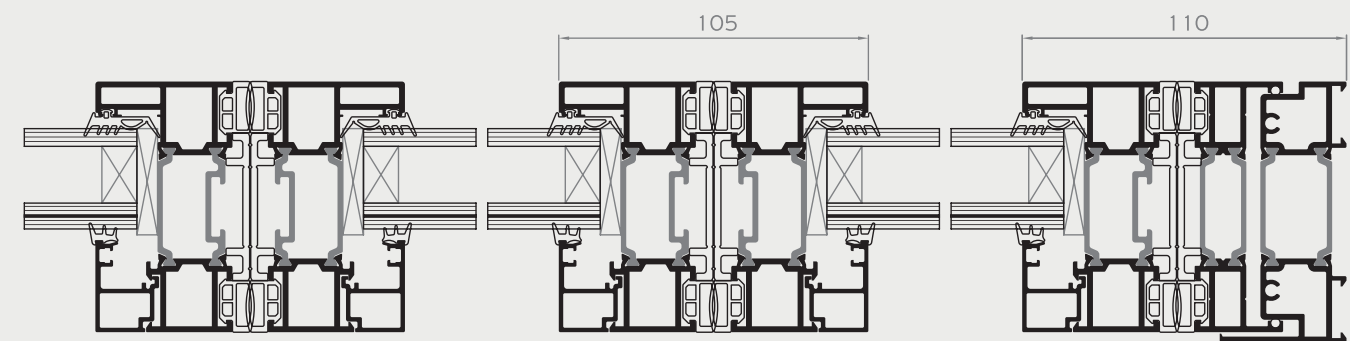
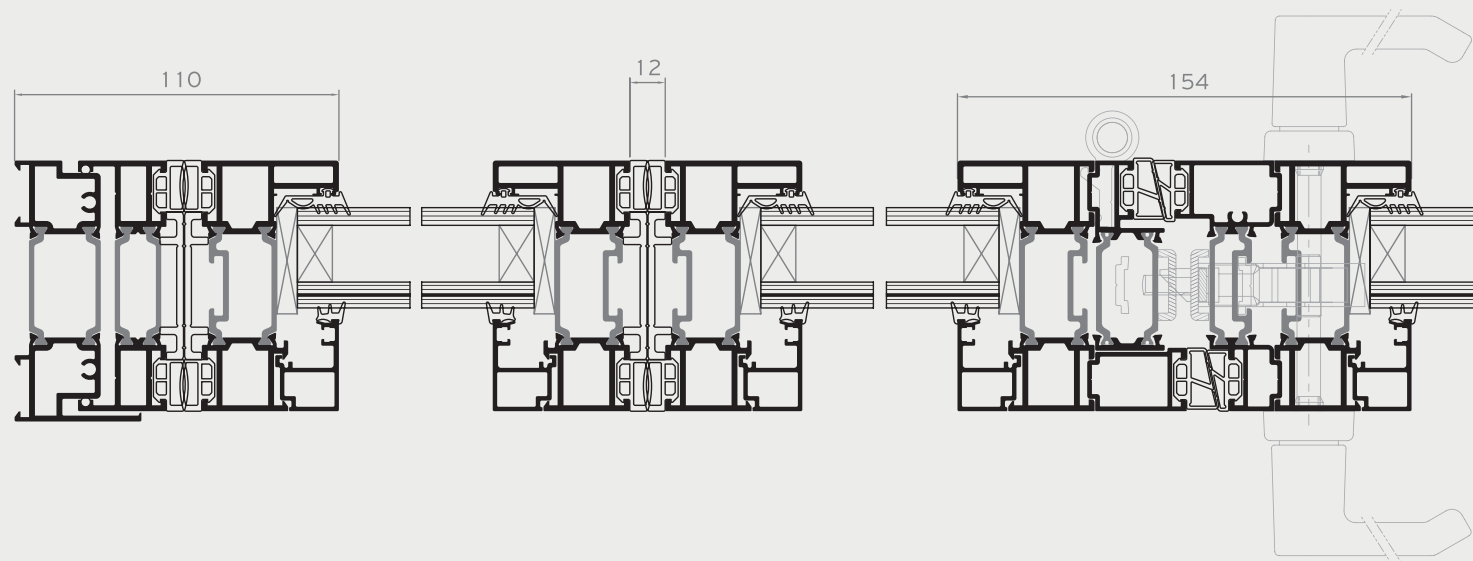
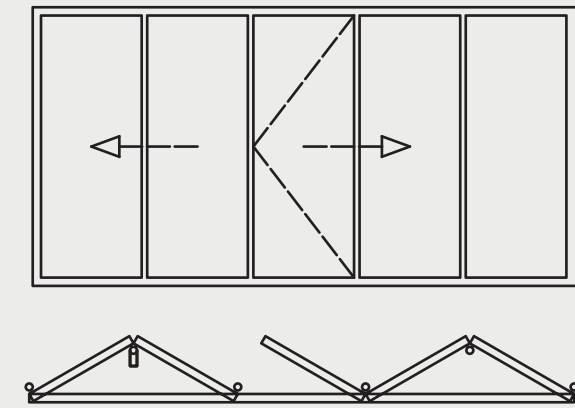


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2+3

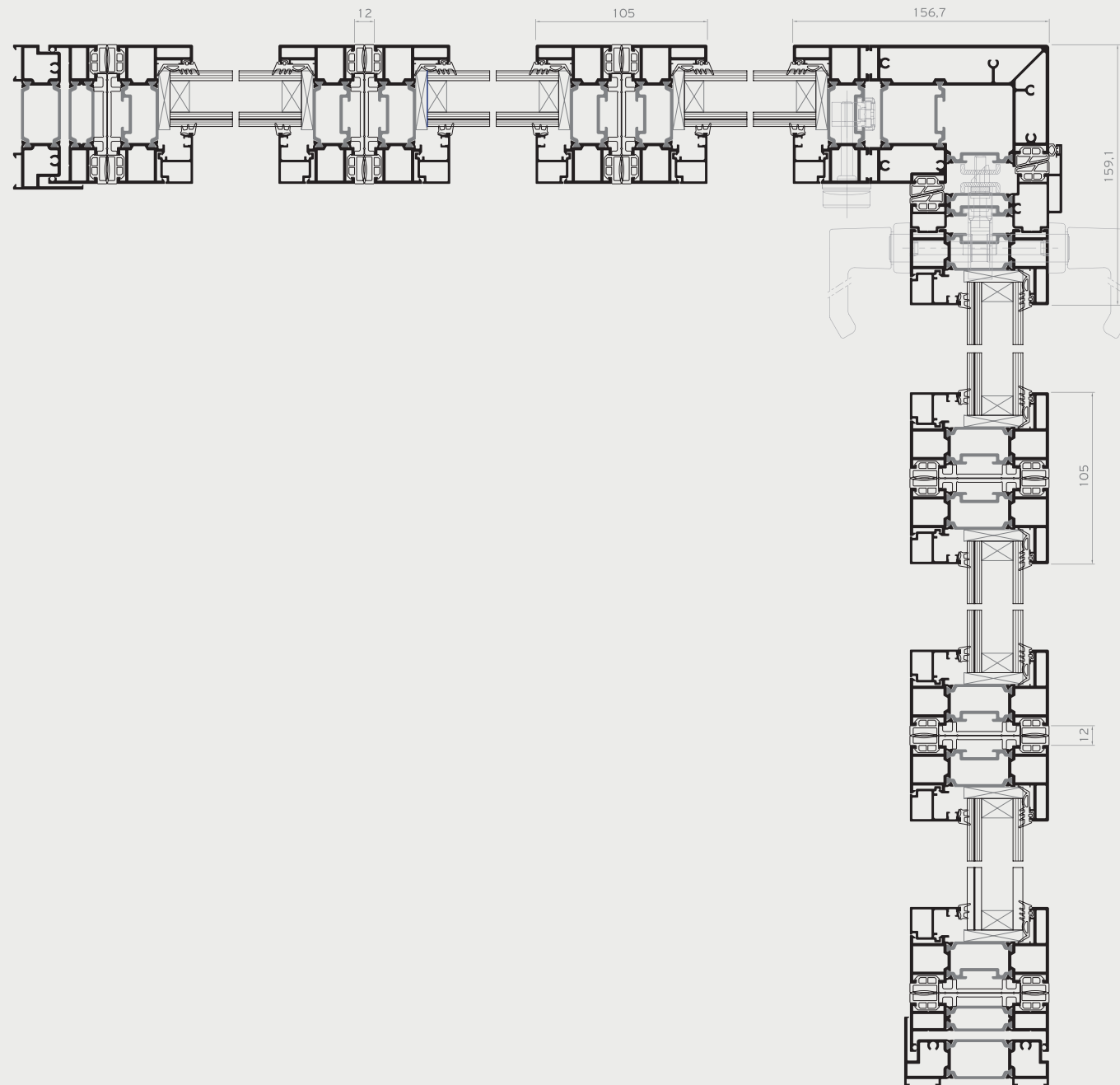
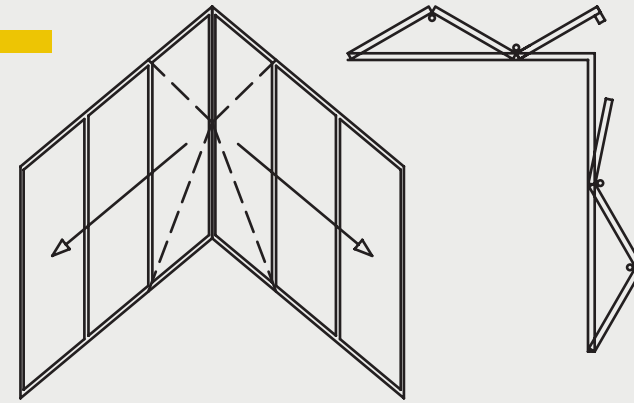
OPENING OUTWARDS



3+3

EXTERNAL CORNER

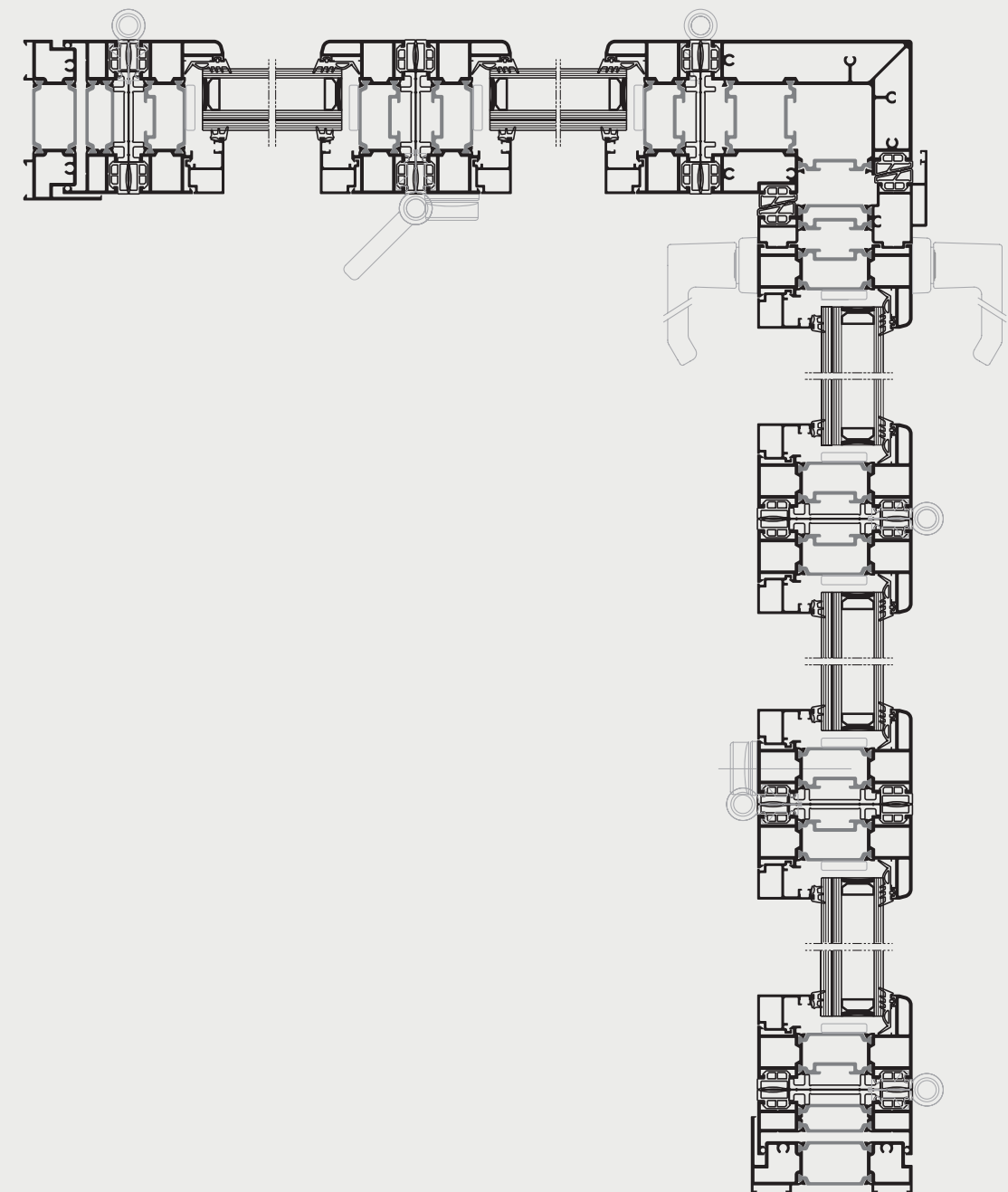
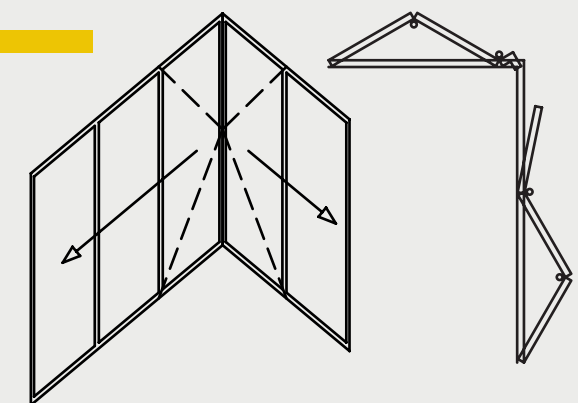
OPENING OUTWARDS



3+2

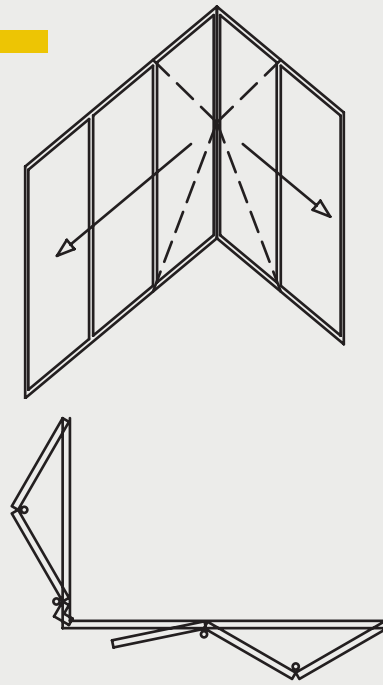
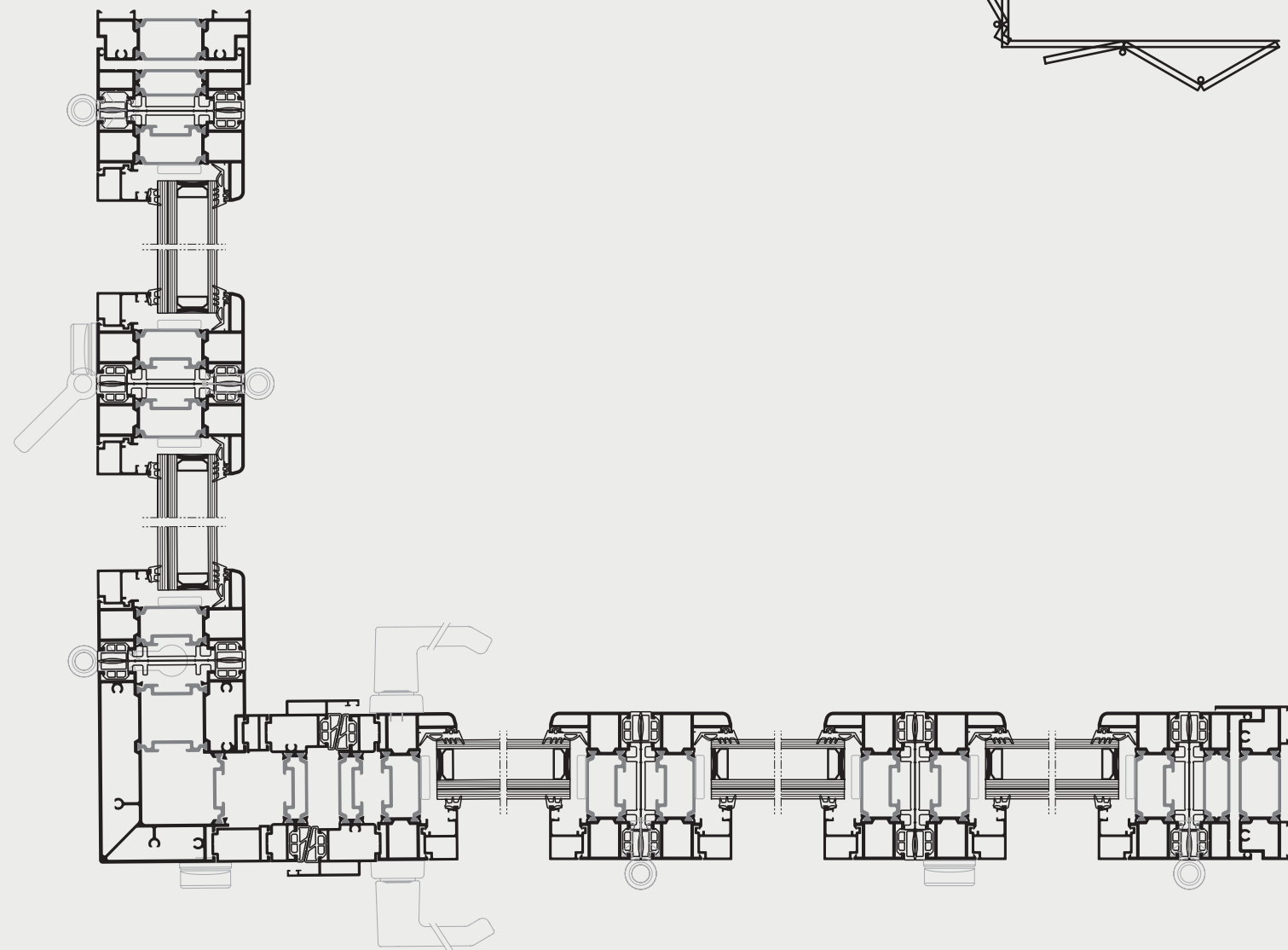
EXTERNAL CORNER

OPENING OUTWARDS



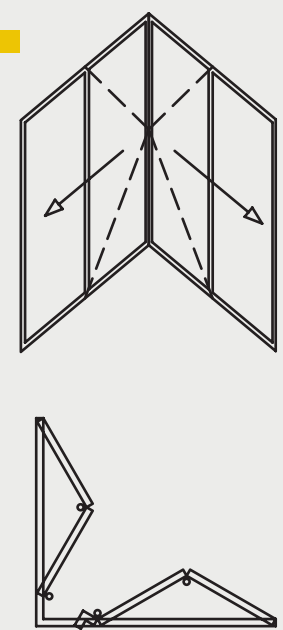
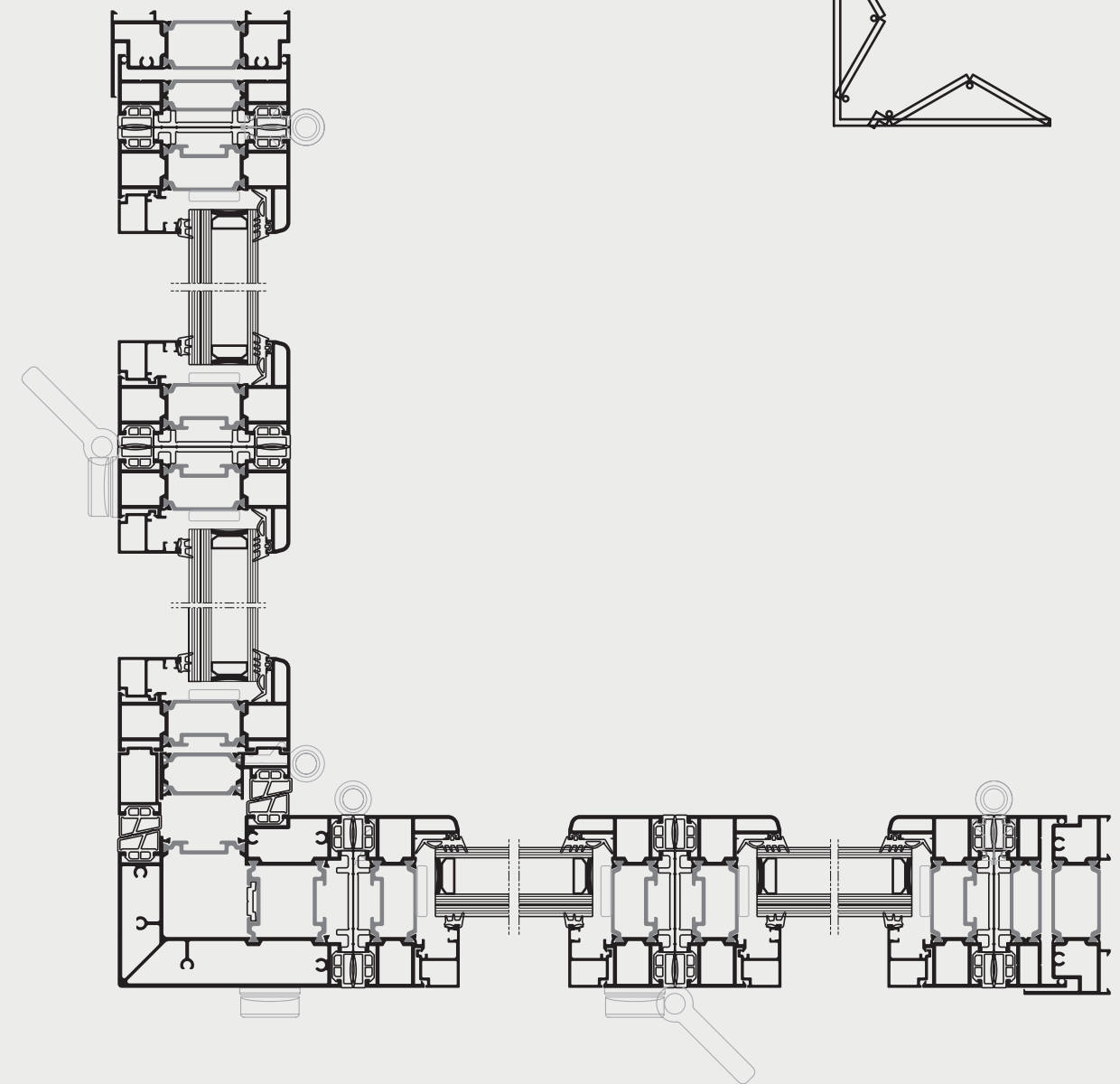
2+3

INTERNAL CORNER OPENING INWARDS



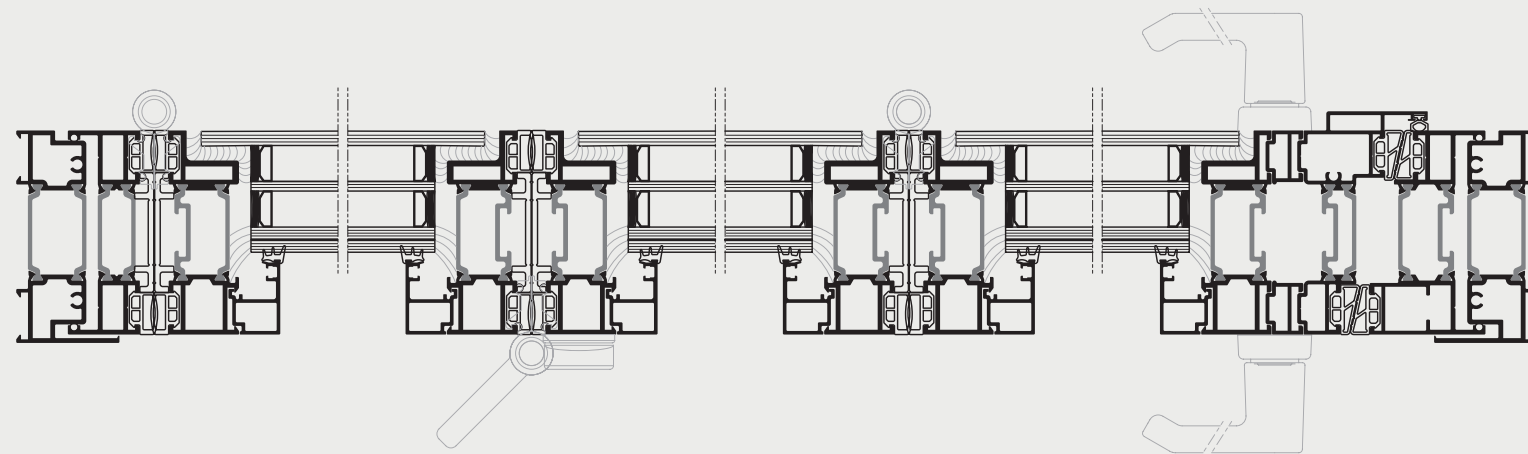
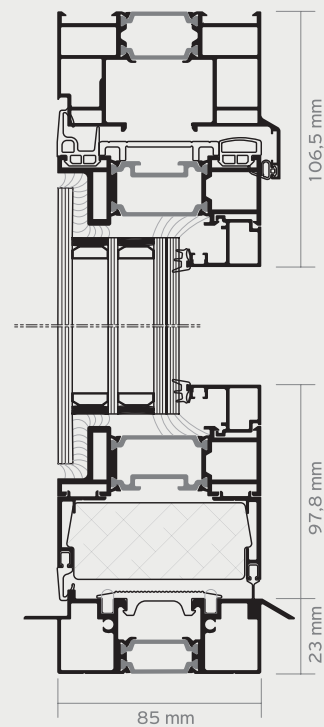
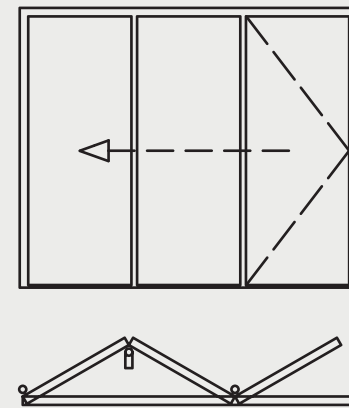
2+2

INTERNAL CORNER OPENING OUTWARDS



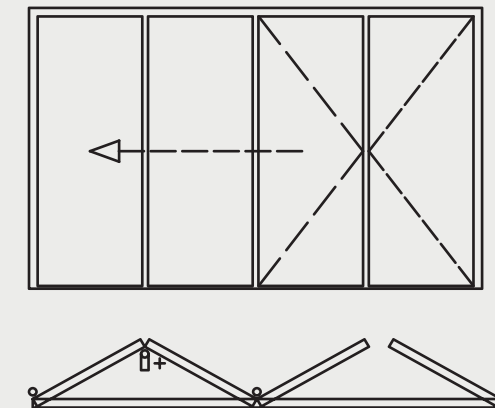
3+0

SEMI-STRUCTURAL SASH OPENING OUTWARDS

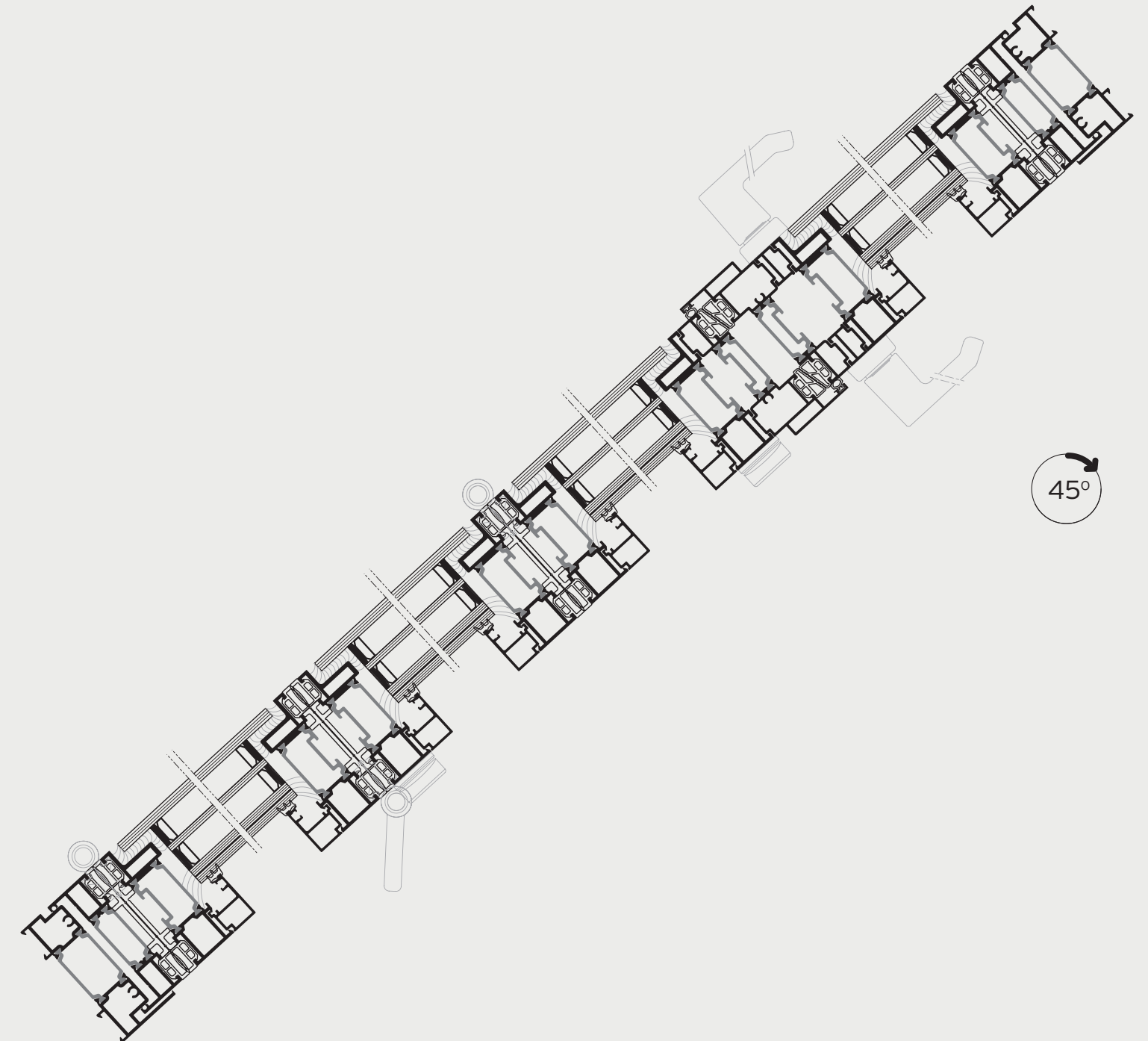


3+1

SEMI-STRUCTURAL SASH OPENING OUTWARDS

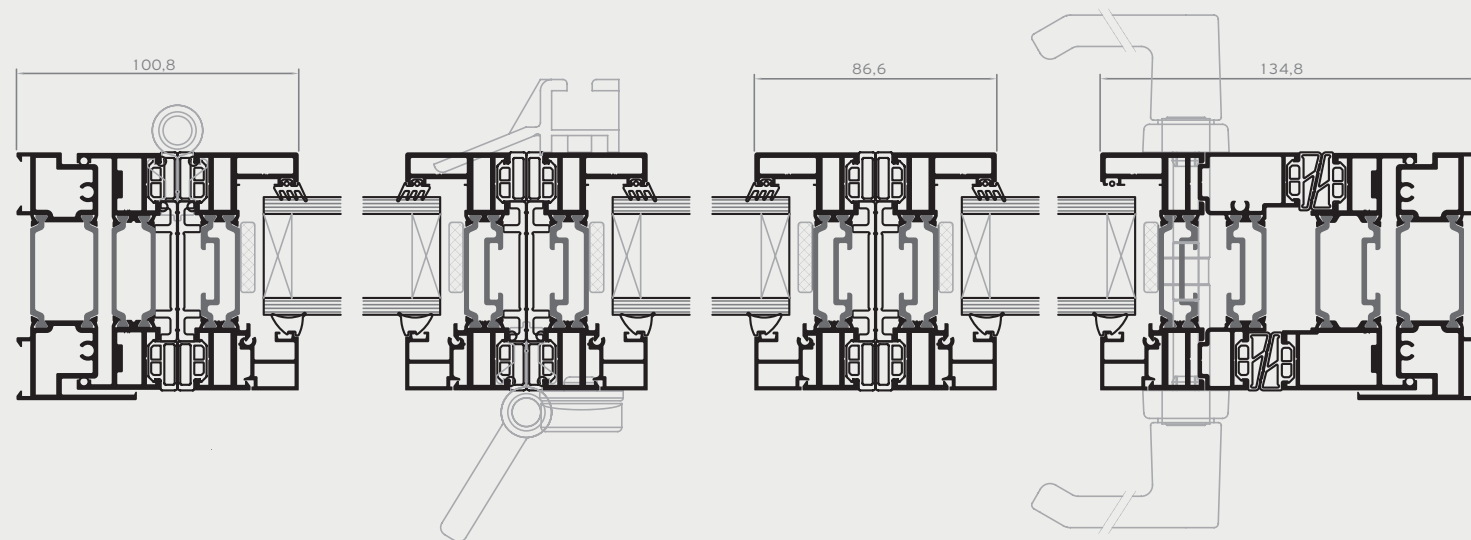
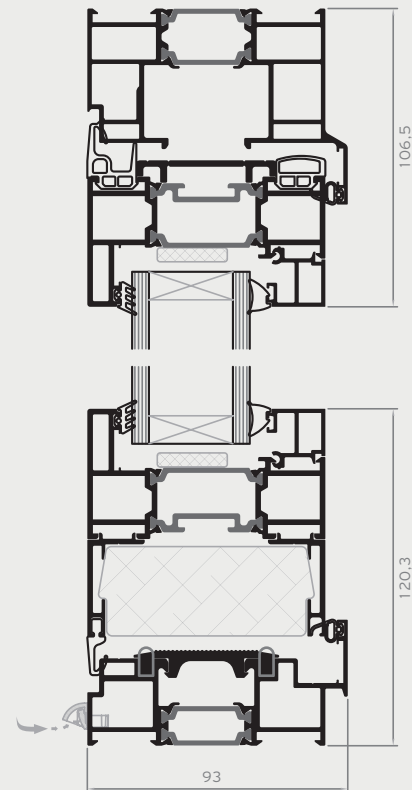
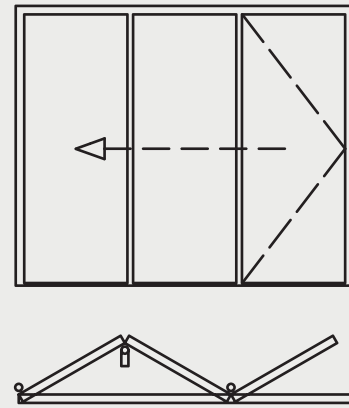


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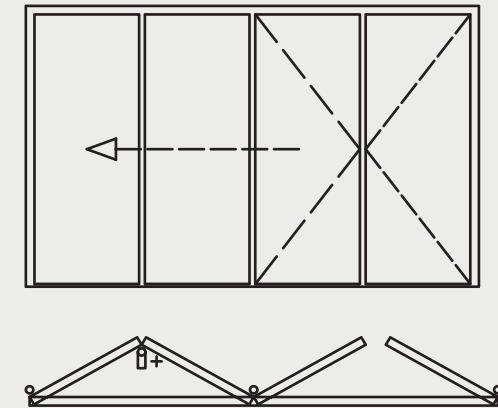
3+0

MINIMAL SASH OPENING OUTWARDS

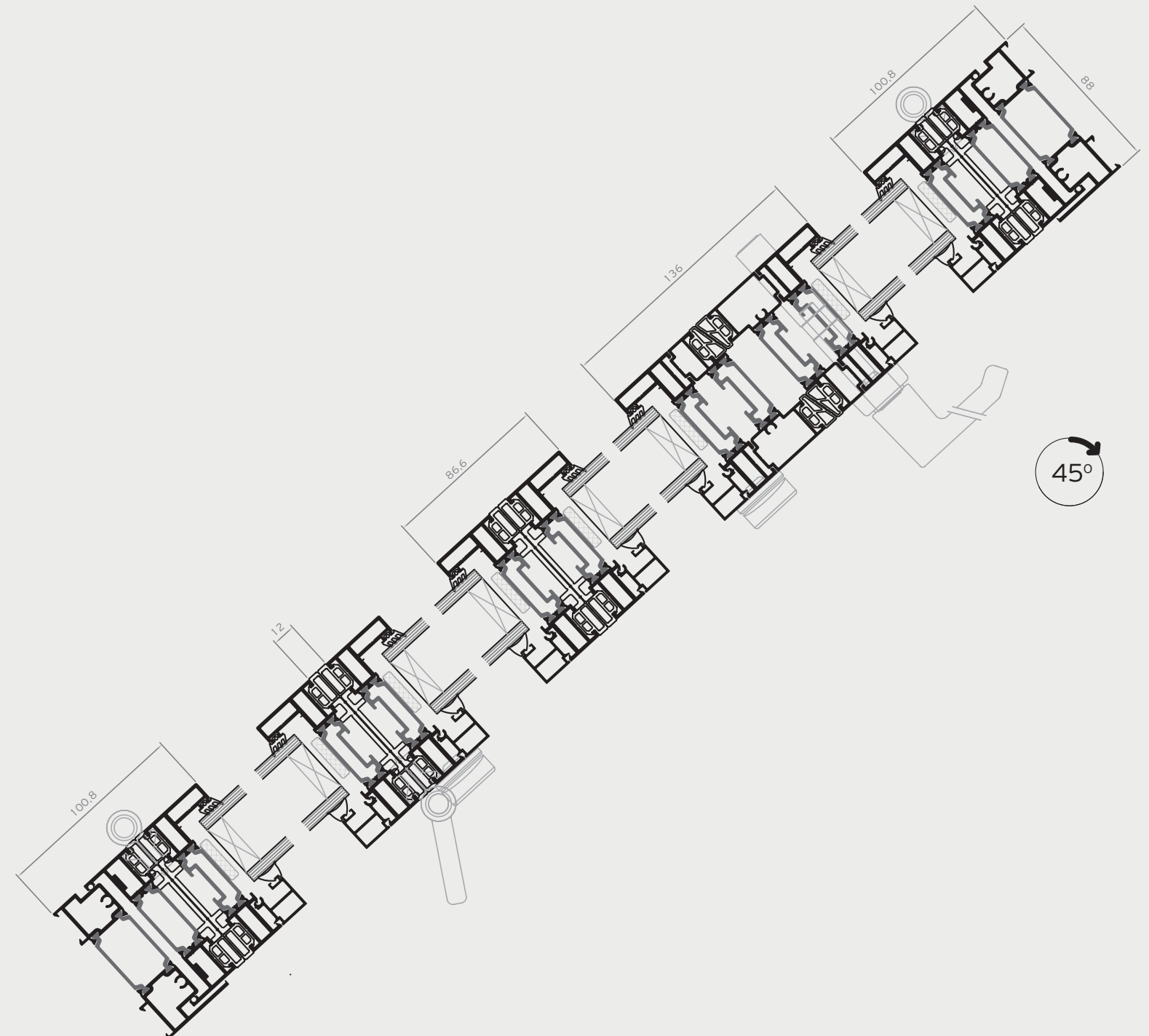


3+1

MINIMAL SASH OPENING OUTWARDS

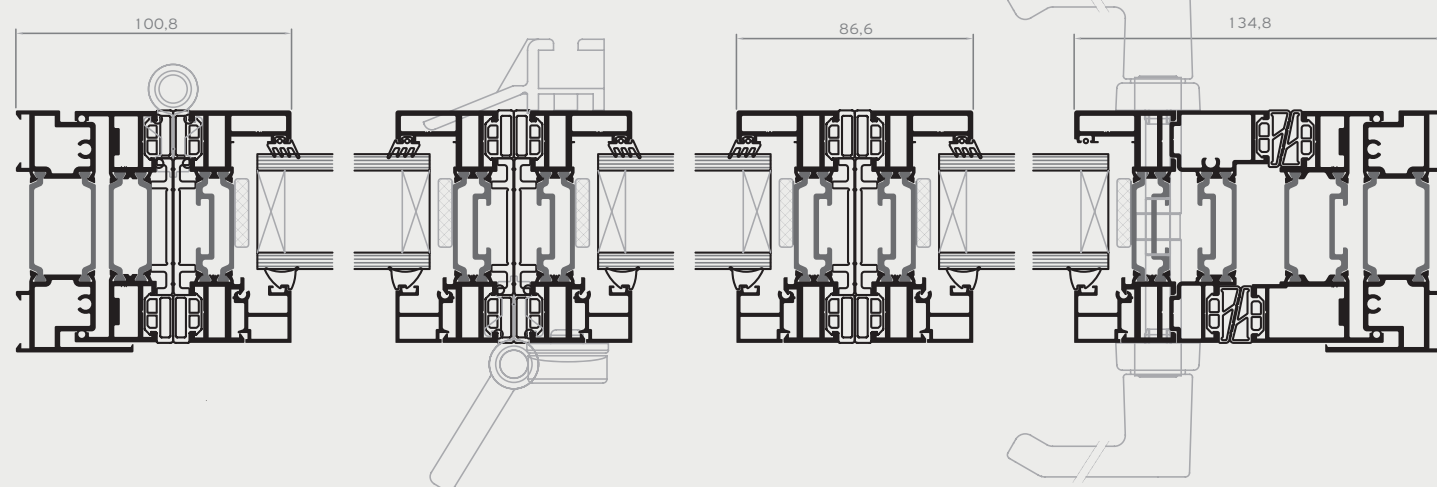
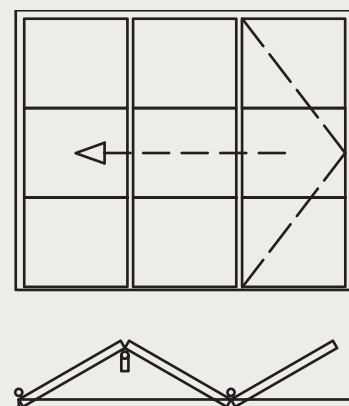
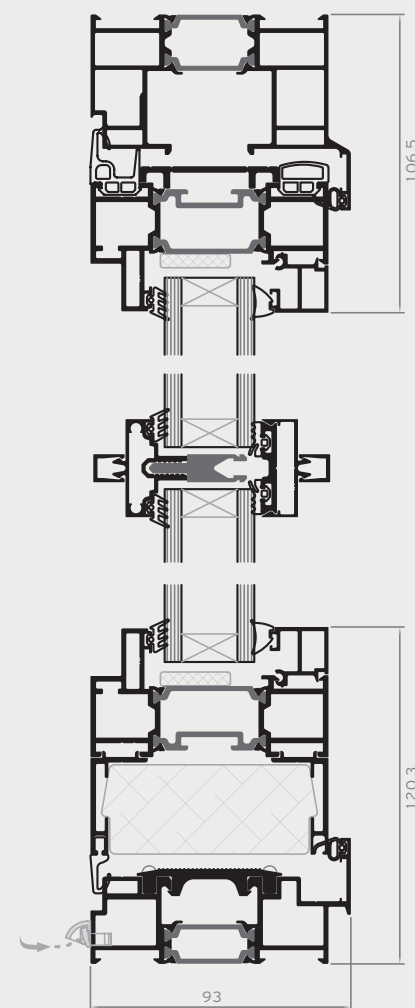


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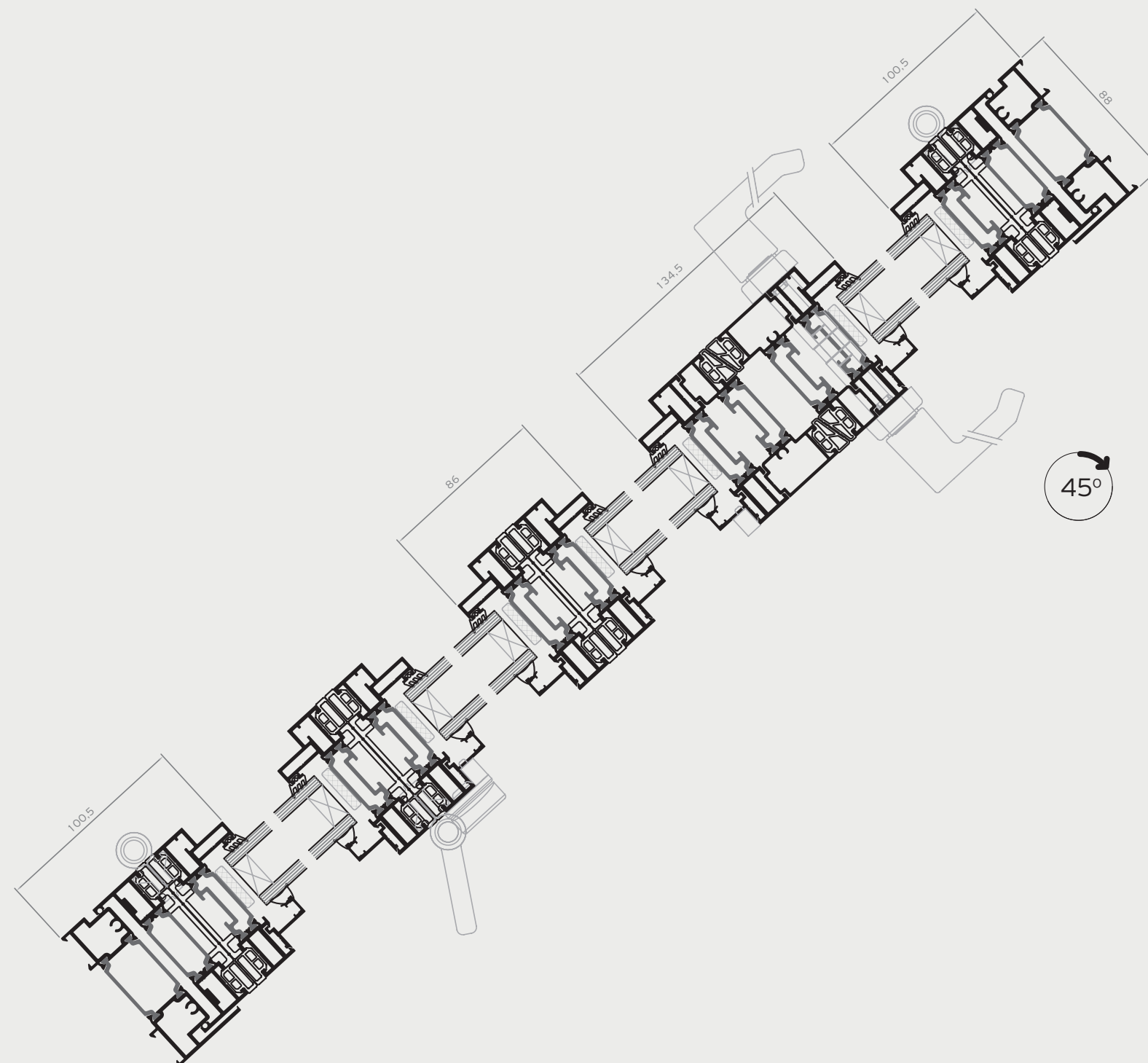
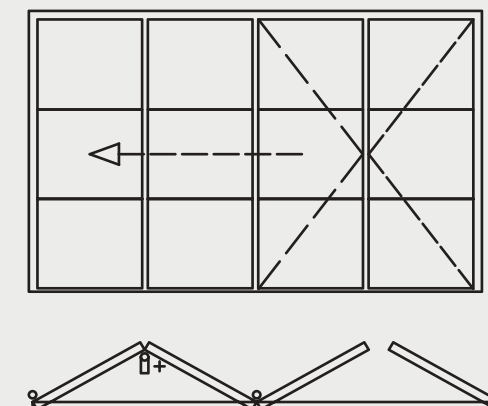
3+0

STEEL-LOOK SASH OPENING OUTWARDS



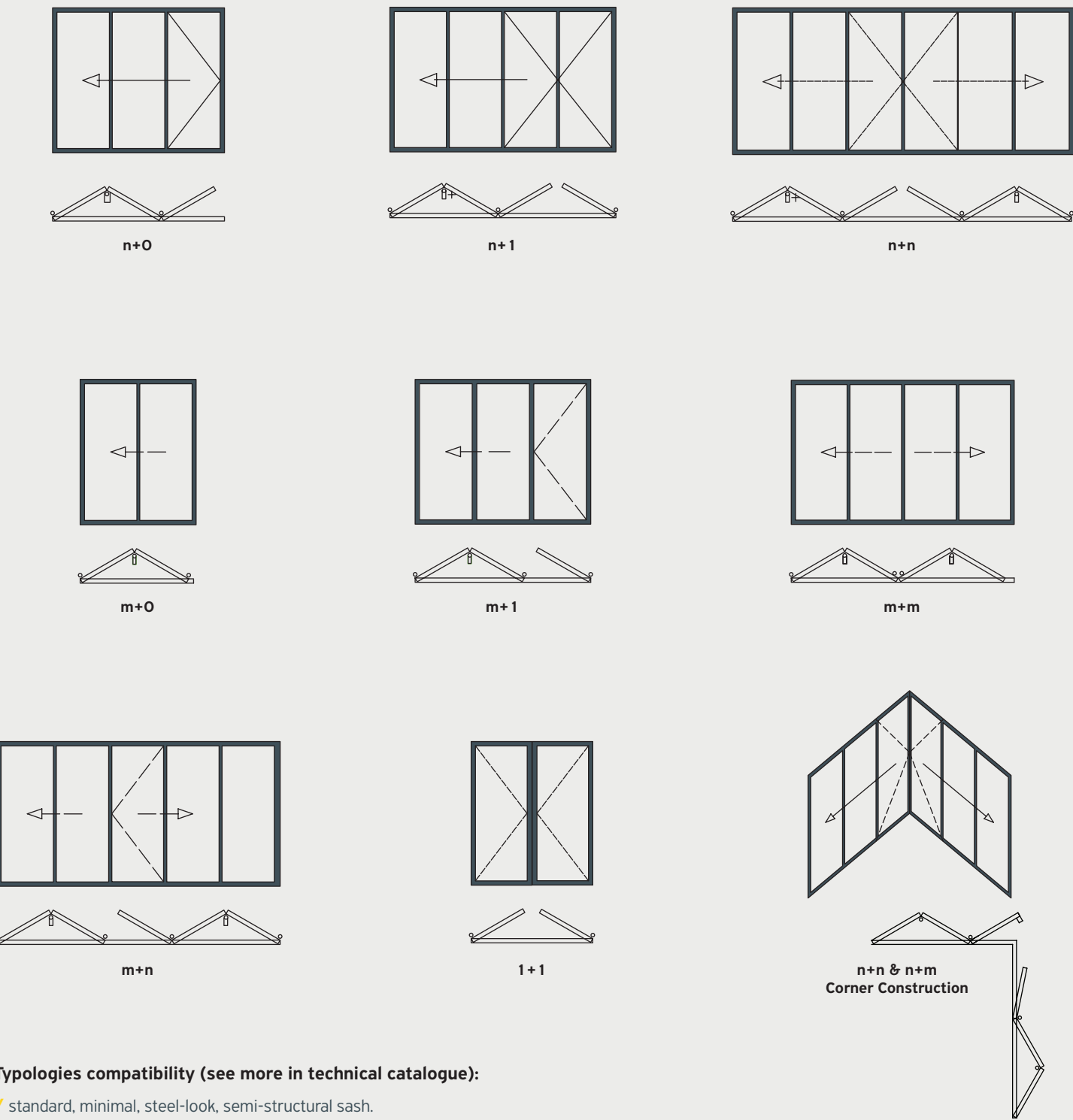
3+1

STEEL-LOOK SASH OPENING OUTWARDS



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APPLICATIONS



Typologies compatibility (see more in technical catalogue):

- / standard, minimal, steel-look, semi-structural sash.
- / standard, low & embedded thresholds.
- / straight and corner structures.
- / outward or inward opening.

* "n" for odd number (e.g. 9) ⊕ "m" for even (e.g. 8).

TABLE OF PERFORMANCE



CERTIFICATION		CLASSIFICATION								
	WATER TIGHTNESS EN 12208	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)
	AIR PERMEABILITY EN 12207	1		2		3		4		
	WIND LOAD RESISTANCE MAX TEST PRESSURE EN 12210	1 (400 Pa)	2 (800 Pa)		3 (1200 Pa)		4 (1600 Pa)		5 (2000 Pa)	
	WIND LOAD RESISTANCE TO FRONTAL DEFLECTION EN 12210	A (≤ 1/150)			B (≤ 1/200)			C (≤ 1/300)		
	BURGLAR RESISTANCE EN 1627 - 1630	RC 1			RC 2			RC 3		
	BURGLAR RESISTANCE PAS24 (UK)	√								
	SOUND REDUCTION EN 14351, EN 717	Rw (C;Ctr) = 46 (-2, -5) dB								

THERMAL PERFORMANCE	DIMENSIONS IN MM (W x H)	U _w in W/m ² K (U _g = 0,6)	U _w in W/m ² K (U _g = 0,8)	U _w in W/m ² K (U _g = 1,1)
3+0	2.6 x 3.0 m	0,998	1,149	1,39
3+0	3.3 x 3.0 m	0,943	1,102	1,351
3+0	3.9 x 3.5 m	0,894	1,059	1,316

PROJECTS



PROJECT
K House

LOCATION
Belgrade, Serbia

PROJECT
Event Center -
Ayia Napa Marina

LOCATION
Ayia Napa, Cyprus



PROJECT
Yas Hilton - Family
Hotel

LOCATION
Abu Dhabi, UAE



PROJECT
Supreme
Hotel & Spa

LOCATION
Qerret, Albania





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