



**alumil**  
Building excellence every day

**alumil**  **SMARTIA**  
MF65



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## **SMARTIA MF65**

Thermally insulated system for folding doors, with minimal design and excellent performance.

Merge indoor & outdoor spaces  
with our seamless folding dividers



**Alumil** SMARTIA  
MF65

SMARTIA MF65 is a  
**thermally** insulated  
folding door system...

with bottom-slide operation and **minimal design**.

The profiles are very thin and, as a result, the  
aluminium frames are slightly visible (**88mm**).

EXTEND YOUR LIVING SPACE  
IN THE MOST ELEGANT WAY



Thanks to its **special design**, including its state of the art accessories, the series allows constructions of large dimensions and high performance in terms of tightness & insulation.

The system offers a wide variety of technical solutions, ideal for modern residences, hotels, stores and other commercial premises. These applications, either open or closed, **provide your spaces with exceptional functionality and stylish outcome.**

Less aluminium,  
**unimpeded view!**

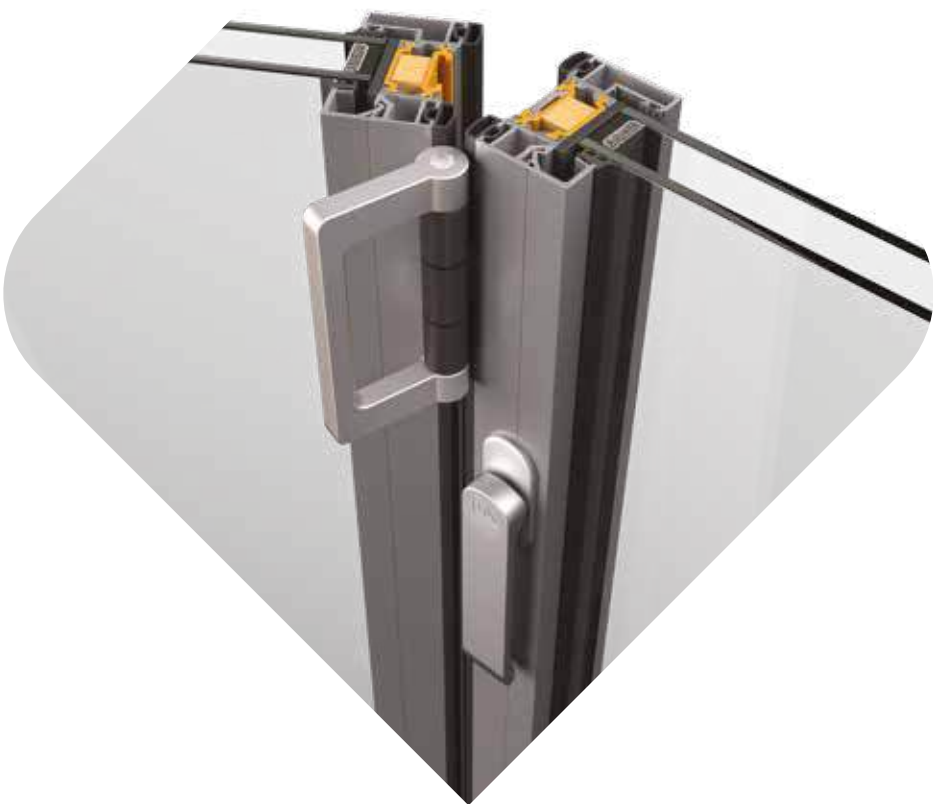


**KEEP IT MINIMAL**

**THE SYSTEM HAS BEEN SPECIALLY DESIGNED TO:**

- Bring more natural light into your space, offering slim sightlines (**88 mm**) and maximizing **visibility**.
- Elevate the aesthetics of your place, thanks to its **minimal design** and very thin profiles.
- Achieve **top performance** in terms of air permeability, watertightness and wind load resistance.
- Increase **energy and cost efficiency**, thanks to the high thermal insulation (up to  $U_w = 1.1 \text{ W/m}^2\text{K}$ ).
- Allow robust large constructions (up to 3.0 m) and high levels of burglar **protection**.
- Offer a **wide variety** of solutions, i.e. odd & even number of vents, double & triple glazing, corner construction, standard or low thresholds, etc.





SASH THICKNESS	65 mm
SASH TO SASH FACE WIDTH	88 mm
GLAZING THICKNESS	24-44 mm
POLYAMIDES	DOUBLE, UP TO 32 mm
EXTRA INSULATING FITTINGS	NRG BAR & PE FOAM INSULATION
MAIN GASKET	EPDM
PANEL LOCKING	QUADRUPLE SHOOT BOLTS
MAXIMUM WEIGHT	140 Kg / VENT
MAXIMUM VENT HEIGHT	3.0 m
MAXIMUM VENT WIDTH	1.3 m



## HANDLES & HINGES



- ALUMIL design handles of high quality and aesthetics.
- Extra pull-handle, integrated with the hinge, for easier vents' sliding.
- Specially designed hinges, which enhance construction robustness.



## SPECIAL ROLLER-HINGES

- Reinforced construction for maximum weight, up to 140 Kg per vent.
- Quadruple heavy-duty rollers, that contribute to smooth sliding on the bottom rail.
- Stainless steel parts that enhance rust protection.
- Special fitting for burglar protection.
- Adjustable, for easier sash alignment.

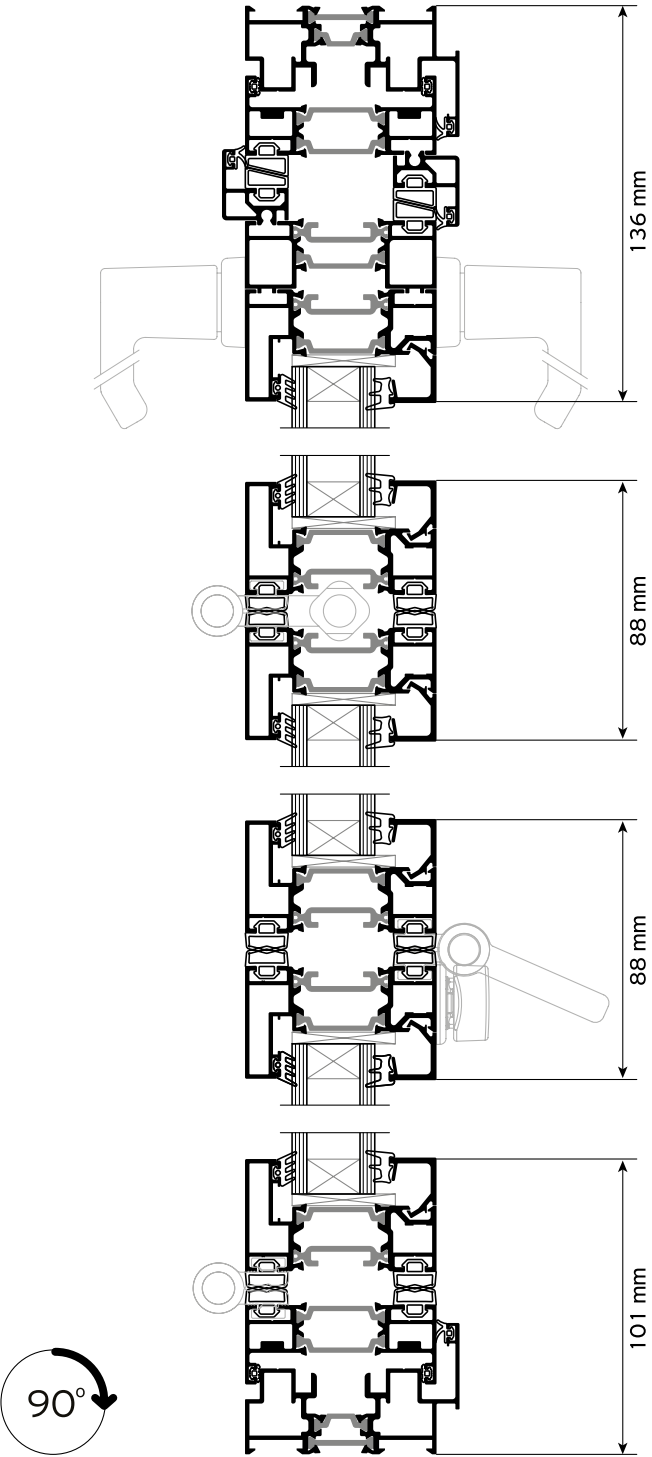
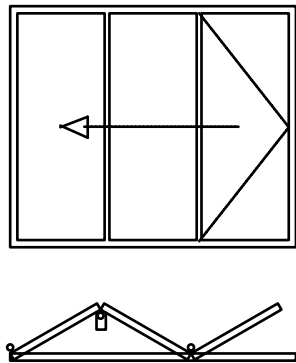
## EXTRA FEATURES

- Quadruple locking of the intermediate vents, an innovation for enhanced security and better wind load resistance.
- Glass-filled polyamides with thermally insulating core, for high levels of thermal insulation.
- Double EPDM gaskets and special fittings, for maximum sealing.

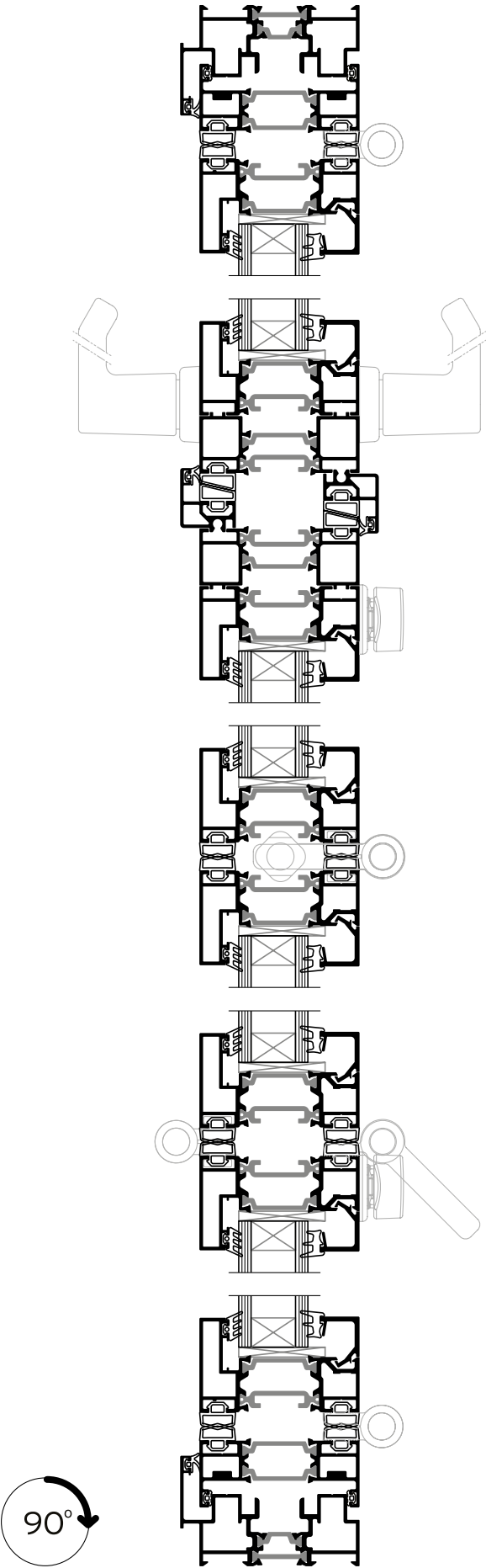
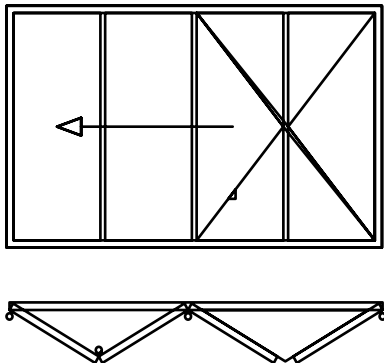




**3+0**  
Opening outwards



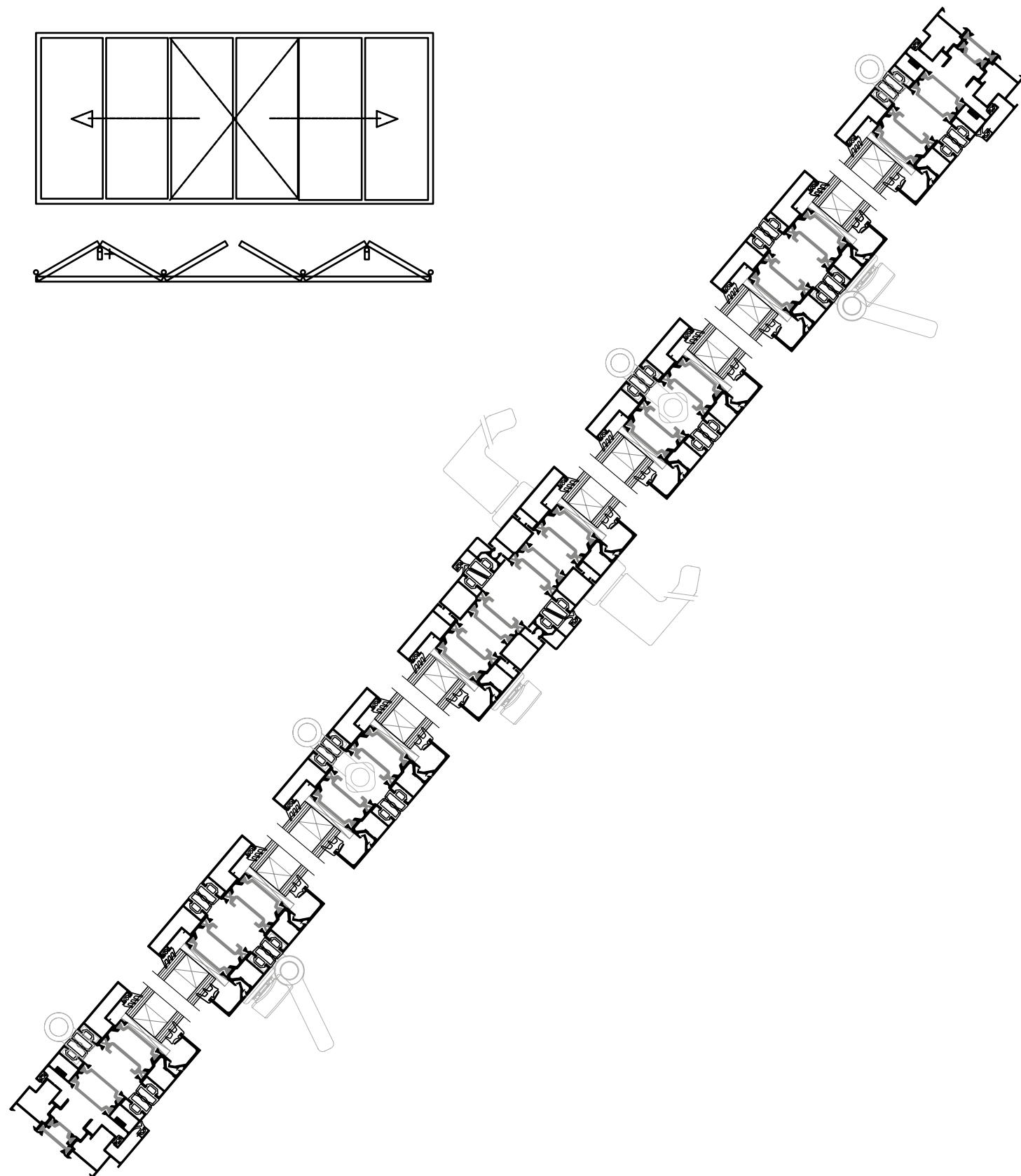
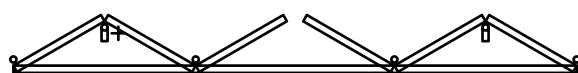
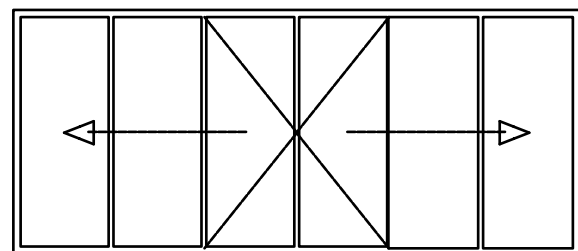
**3+1**  
Opening inwards



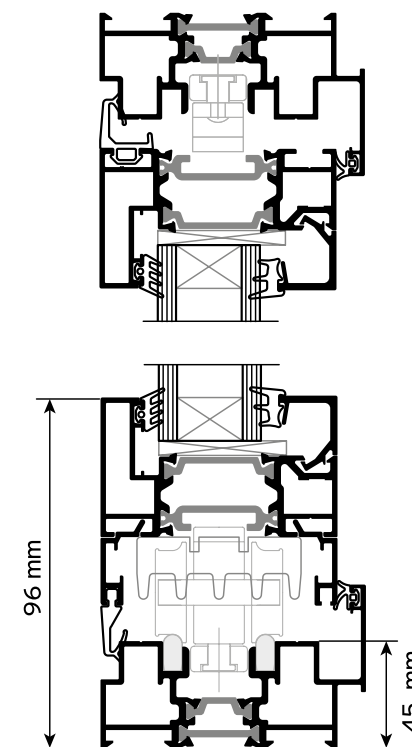


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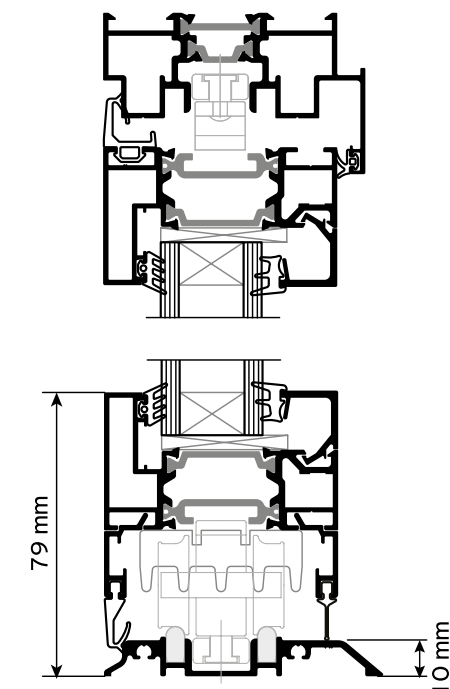
**3+3**  
Opening outwards



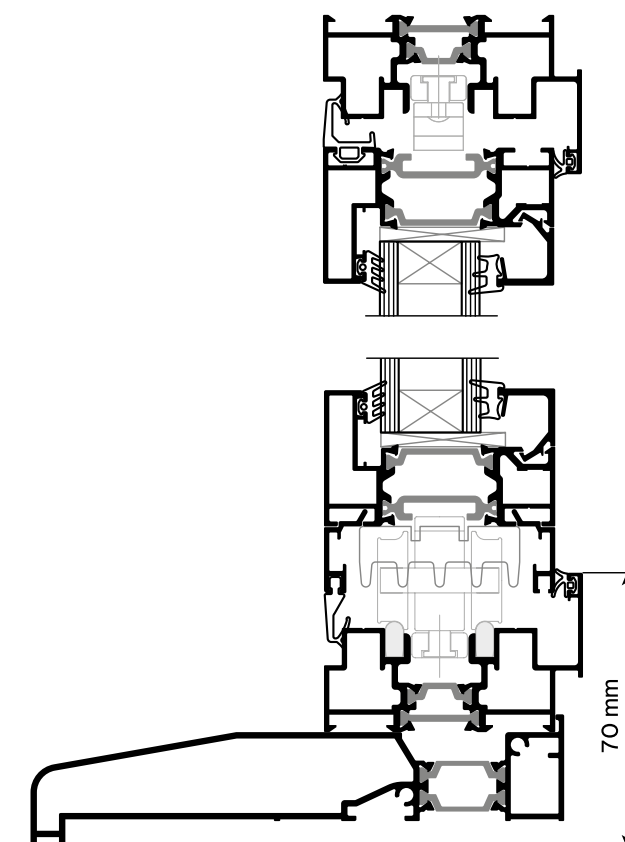
Standard threshold



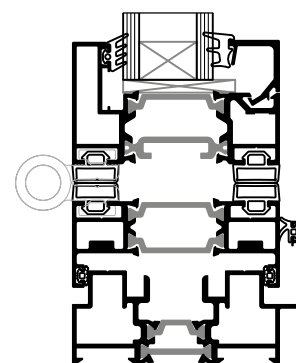
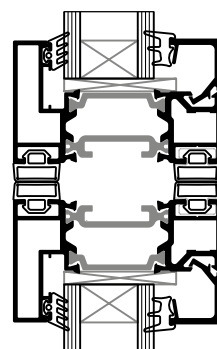
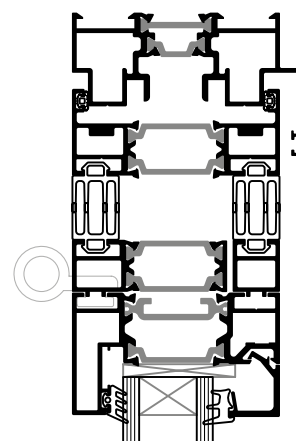
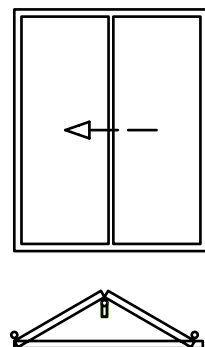
Low threshold



Threshold with subsill

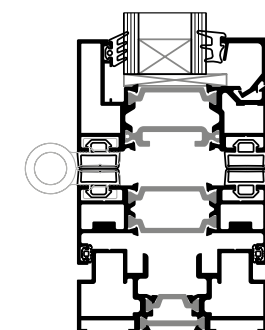
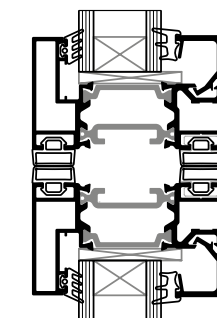
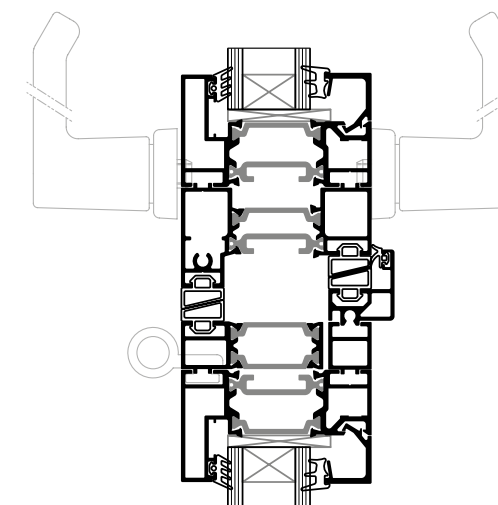
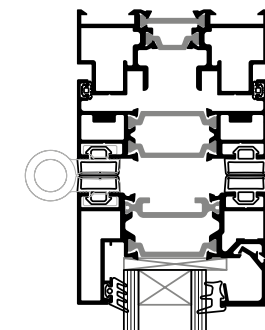
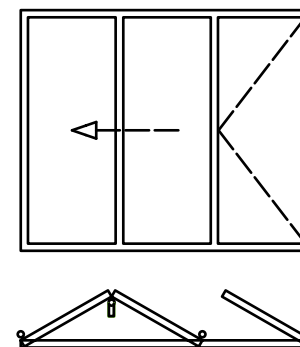


## 2+0 Opening outwards



90°

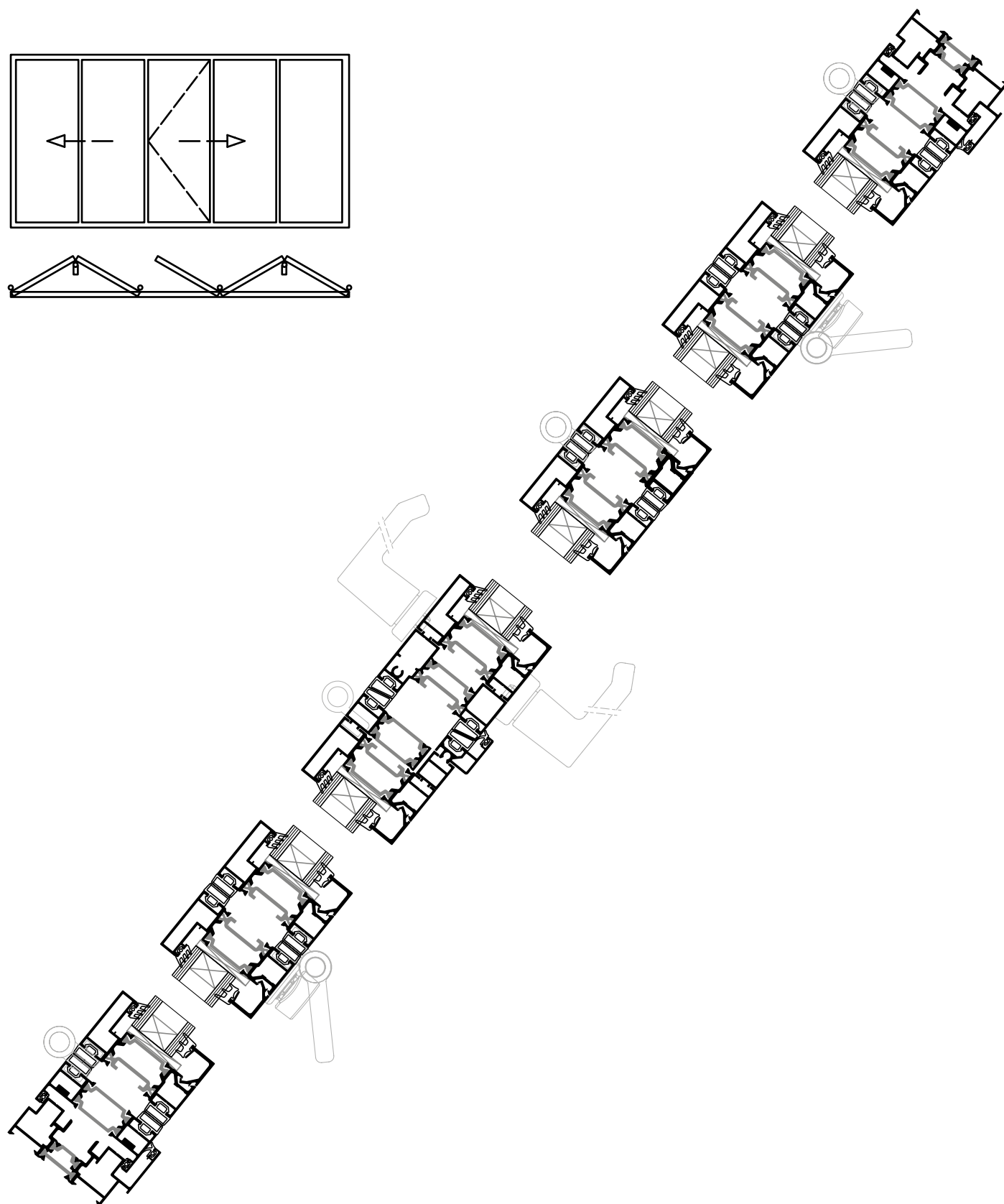
## 2+1 Opening outwards



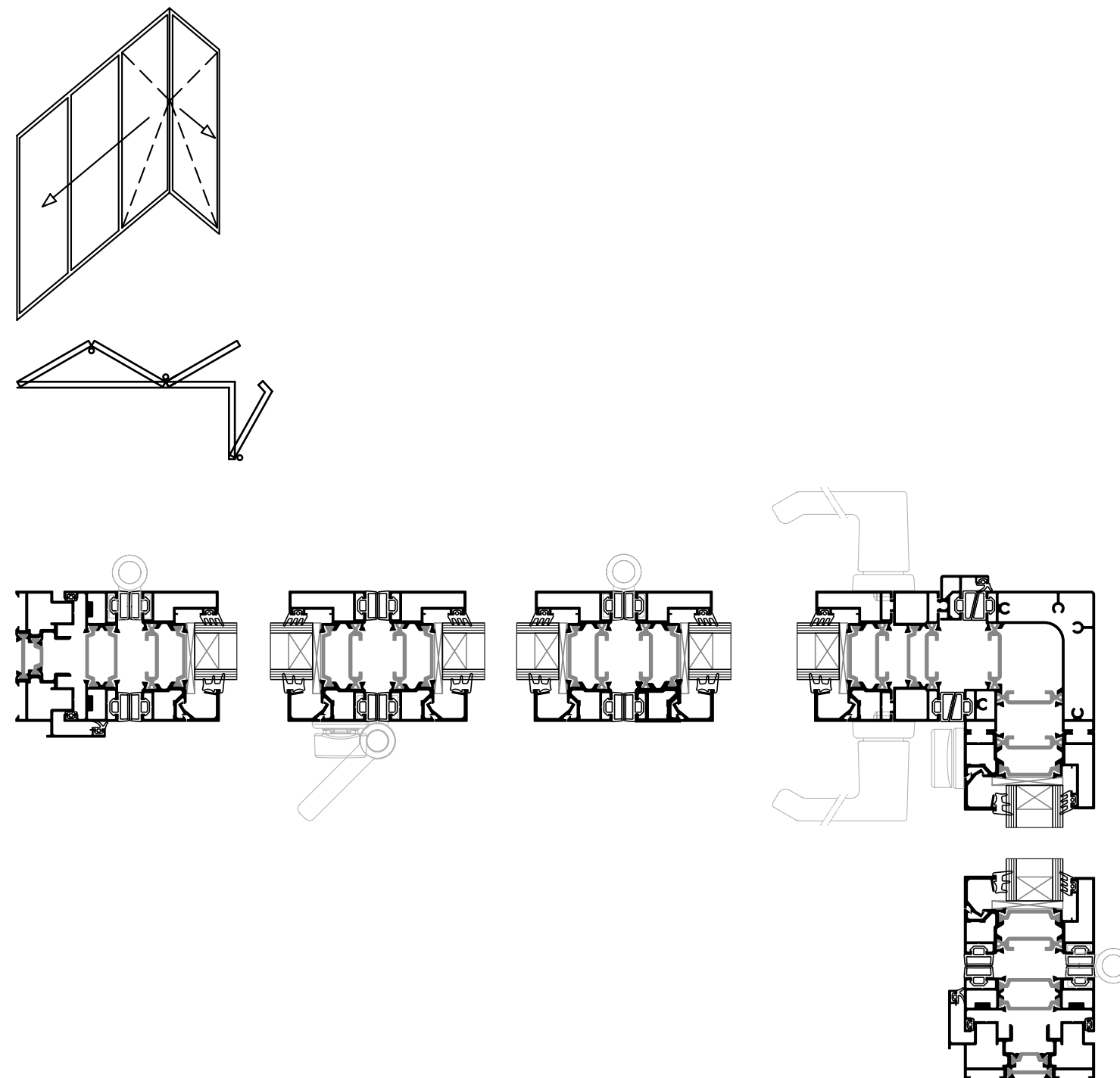
90°



## 2+3 Opening outwards

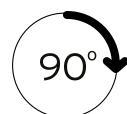
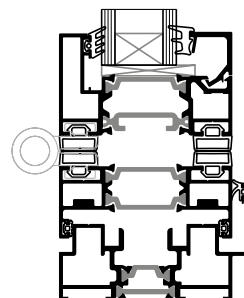
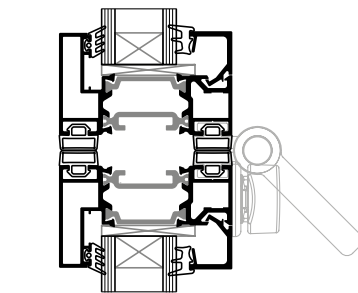
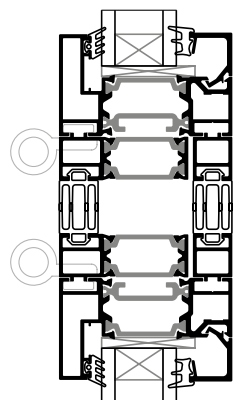
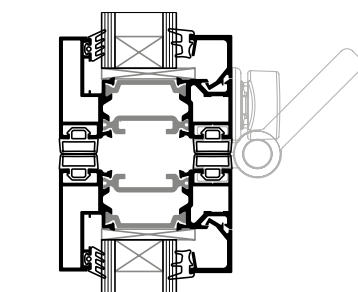
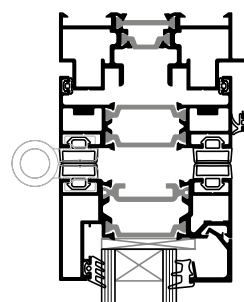
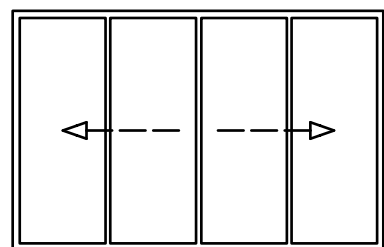


## 3+1 Corner construction

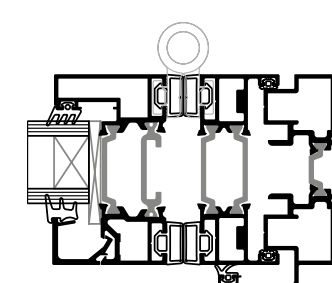
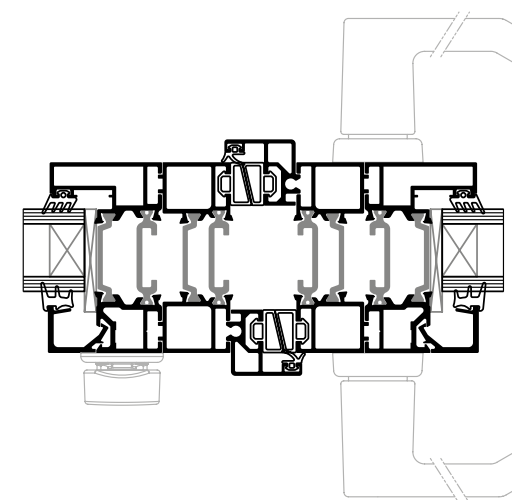
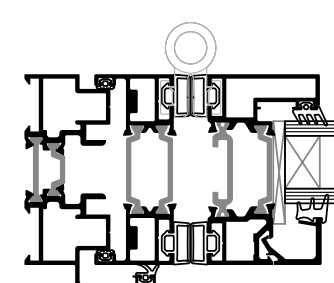
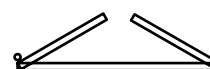
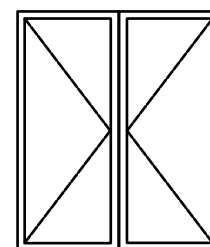


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## 2+2 Opening outwards

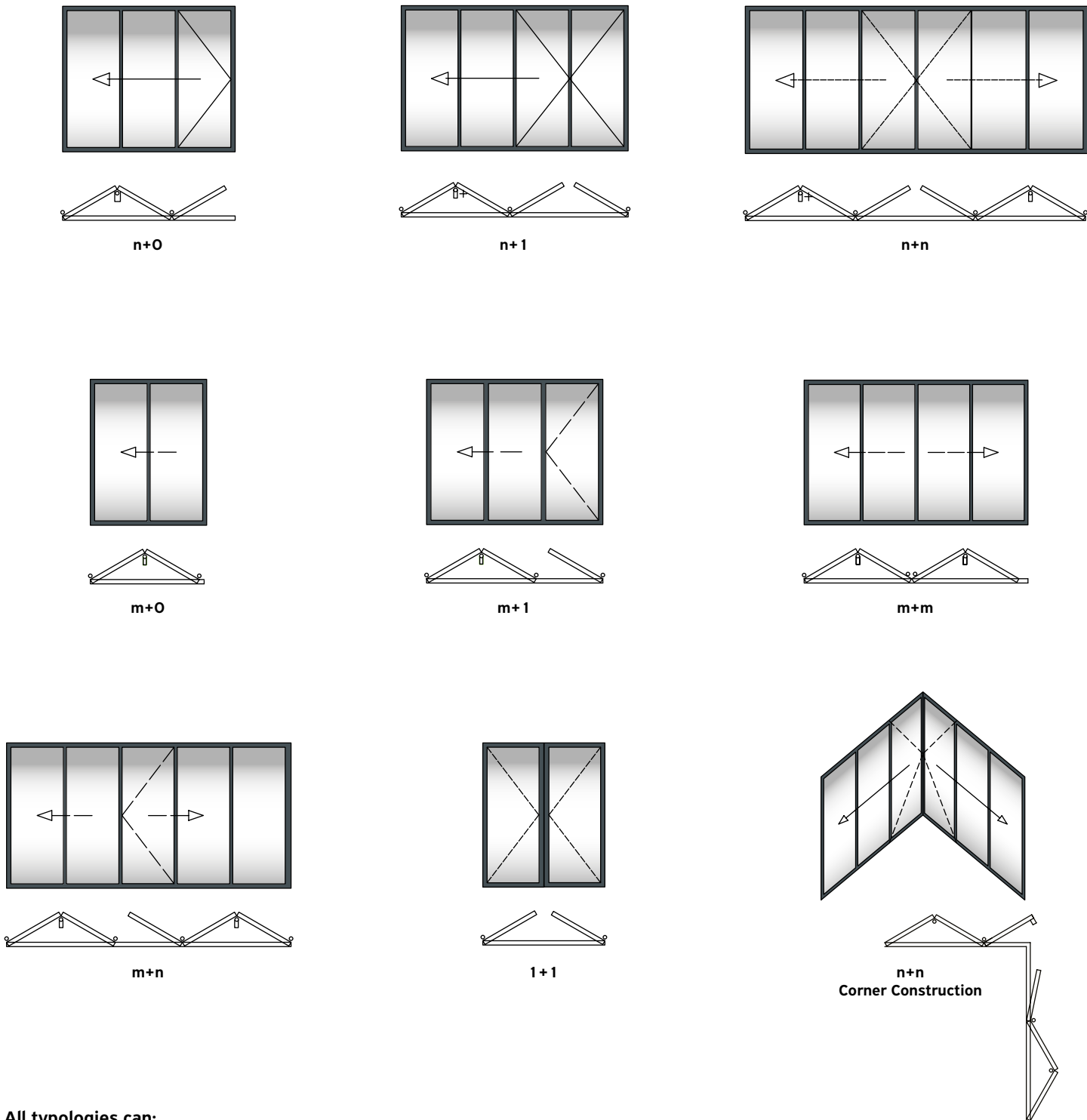


## 1+1 Opening outwards





# Applications



All typologies can:

- / Open outwards or inwards.
- / Use standard or low threshold.
- / Allow very large number of vents.

\* "n" for odd number (e.g. 7) ⊕ "m" for even (e.g. 6).

# Table of performance

CERTIFICATION		CLASSIFICATION								
	<b>WATER TIGHTNESS</b> EN 12208	1A	2A	3A	4A	5A	6A	7A	8A	9A
		(0 Pa)	(50 Pa)	(100 Pa)	(150 Pa)	(200 Pa)	(250 Pa)	(300 Pa)	(450 Pa)	(600 Pa)
	<b>AIR PERMEABILITY</b> EN 12207	1	2		3			4		
		(150 Pa)	(300 Pa)		(600 Pa)			(600 Pa)		
	<b>WIND LOAD RESISTANCE</b> MAX TEST PRESSURE EN 12210	1	2	3		4		5		
		(400 Pa)	(800 Pa)	(1200 Pa)		(1600 Pa)		(2000 Pa)		
	<b>WIND LOAD RESISTANCE</b> TO FRONTAL DEFLECTION EN 12210	A	B				C			
		(≤ 1/150)	(≤ 1/200)				(≤ 1/300)			

THERMAL PERFORMANCE	DIMENSIONS IN MM (W x H)	U <sub>w</sub> in W/m²K (U <sub>g</sub> = 0,6)	U <sub>w</sub> in W/m²K (U <sub>g</sub> = 0,8)	U <sub>w</sub> in W/m²K (U <sub>g</sub> = 1,1)
3+0	2.6 x 2.8 m	1.13	1.29	1.54
3+1	3.45 x 2.8 m	1.11	1.27	1.52
3+0	3.3 x 2.7 m	1.06	1.23	1.48

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