
Alumil
Building excellence every day
Alumil SMARTIA
MF65 / MF6500

CONTENTS

SMARTIA MF65 / MF6500

SMARTIA MF65
SMARTIA MF6500

Thermally insulated and non-insulated systems for folding doors, with minimal design and exceptional performance.

Merge indoor and outdoor spaces with our seamless folding dividers

Alumil SMARTIA MF65

SMARTIA MF6500

ELEVATE YOUR LIVING SPACE WITH TIMELESS ELEGANCE

SMARTIA MF65 and MF6500 are the **insulated and non-insulated** versions of our modern folding door systems, with **minimal design** and bottom-slide operation. The profiles in both systems are very thin, resulting in slightly visible aluminium lines **(88 mm).**

Combining an exceptional overall design with state-of-the-art accessories, our folding door systems enable constructions of large dimensions while delivering **superior performance** in terms of watertightness and thermal insulation.

With a wide variety of technical solutions, both systems cater to the diverse needs of modern residences, hotels, stores, and various commercial premises. Whether open or closed, these applications **enhance your spaces with unrivalled functionality and a stylish outcome.**

Alumil SMARTIA MF65

SMARTIA MF6500

EMBRACE MINIMALISM

Reduce aluminium, **unleash the view!**

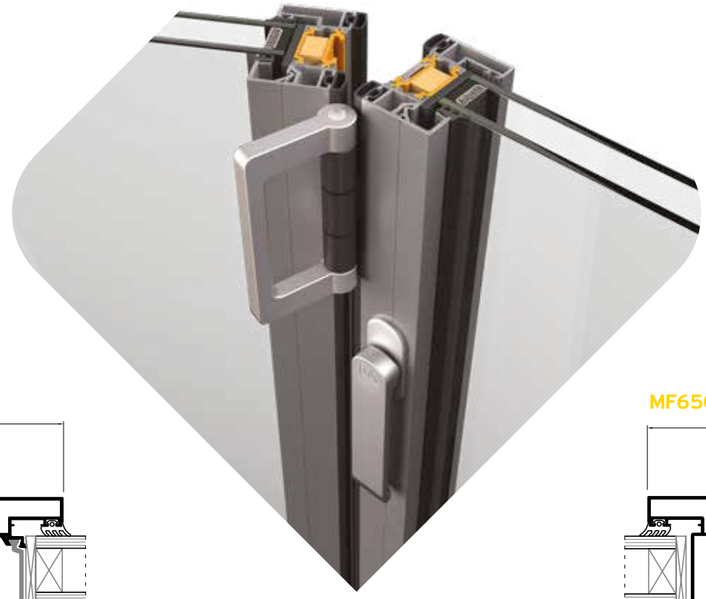
THE SYSTEMS HAVE BEEN DESIGNED TO:

- Illuminate your space with abundant natural light, offering **slim sightlines (88 mm)** that maximize visibility.
- Elevate the aesthetics of your space, with their **minimal design** and ultra-thin profiles.
- Achieve **top performance** in terms of air permeability, watertightness and wind load resistance.
- The thermally insulated version (SMARTIA MF65) increases **energy and cost efficiency,** through the high thermal insulation (up to U_w= 1.1 W/m^{2}K).
- Allow robust large constructions (up to 3.0 m) and offer **high levels of burglar protection.**
- Offer a **plethora of solutions,** including options such as odd and even number of vents, double and triple glazing, standard and low threshold and independent hinged door.

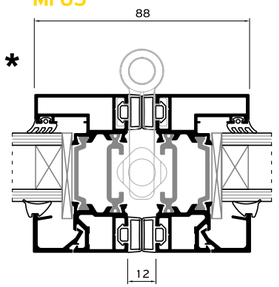
Alumil SMARTIA
MF65

SMARTIA
MF6500

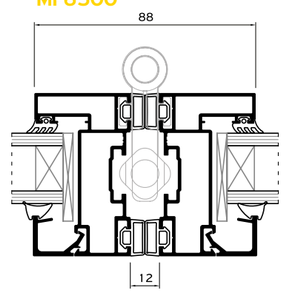
TECHNICAL CHARACTERISTICS



MF65



MF6500



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

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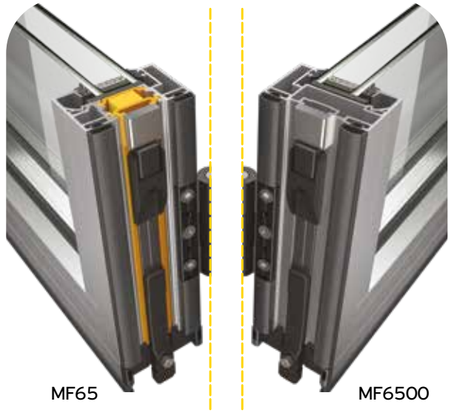
SMARTIA MF6500

FLAWLESS OPERATION



MF65 MF6500

ACCESSORIES' DETAILS

- Quadruple locking of the intermediate vents, an innovation for enhanced security and better wind load resistance.
- Three-point lock (door) with hooks and flexibility to choose additional latches (up/down).
- Glass-filled polyamides with a thermally insulated core, for high levels of thermal insulation.
- Double EPDM gaskets and special fittings for maximum sealing.

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.

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MF65

SMARTIA
MF6500

DURABILITY OVER TIME

MF65
(quadruple roller)

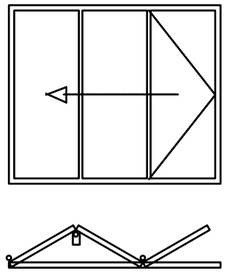
SPECIAL ROLLER-HINGES

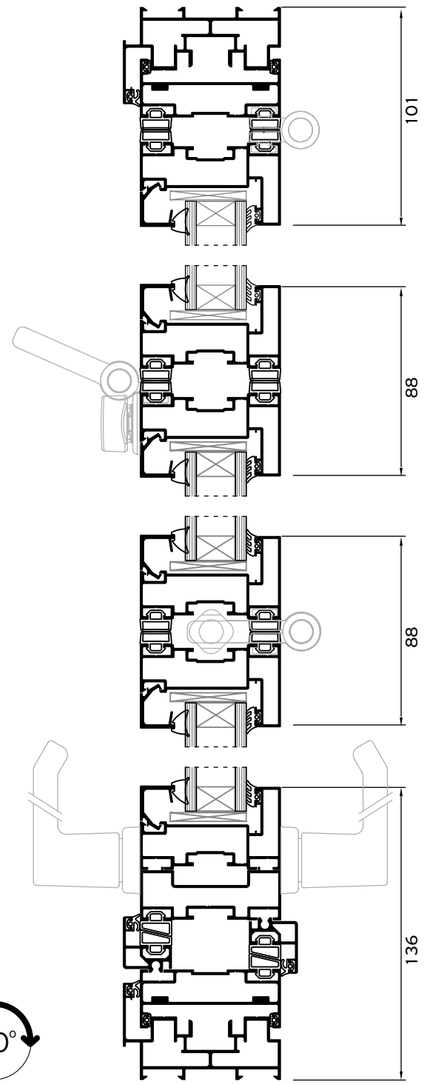
- Reinforced construction for maximum weight, up to 140 Kg per vent.
- Quadruple heavy-duty rollers that contribute to smooth sliding on the bottom rail.
- Double rollers for easy and smooth sliding in even typologies.
- Stainless steel parts that enhance rust protection.
- Special fitting for burglar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

MF6500
(double roller)

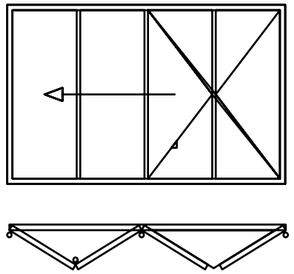
Alumil SMARTIA
MF6500

3+0
Opening outwards





3+1
Opening inwards



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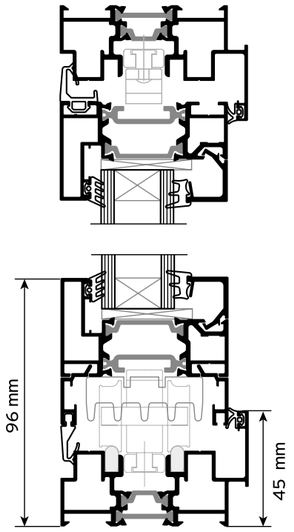
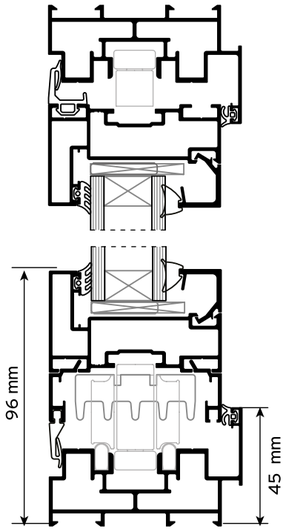
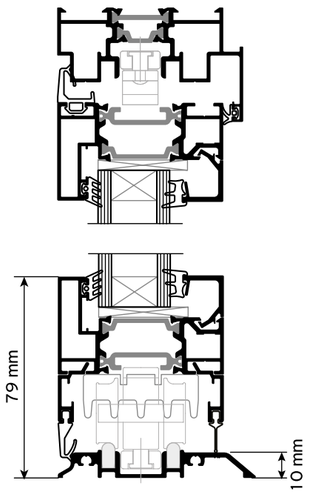
Standard thermally insulated threshold



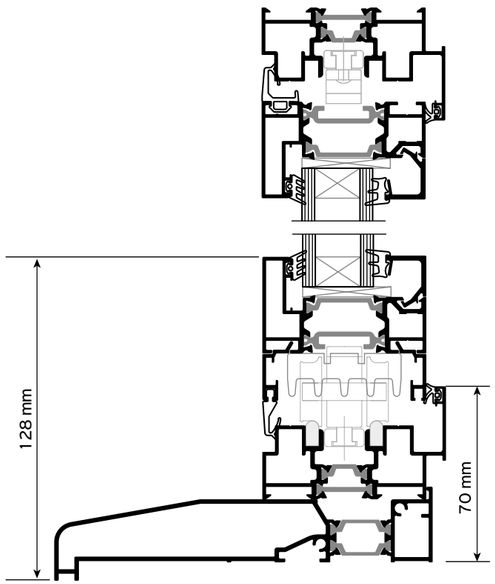
Standard non-insulated threshold



Low threshold



Threshold with subsill



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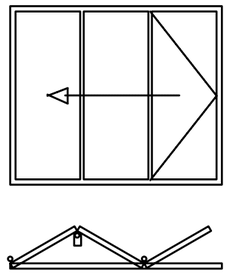
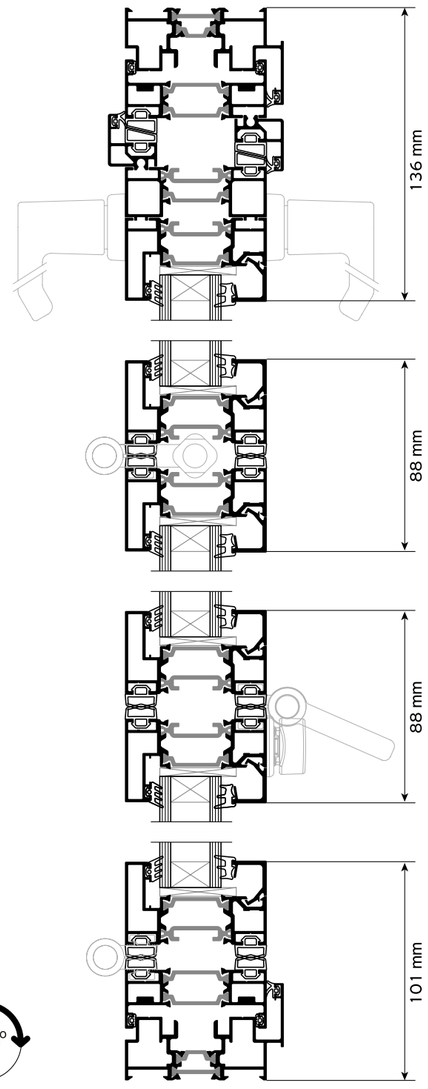
3+0
Opening outwards





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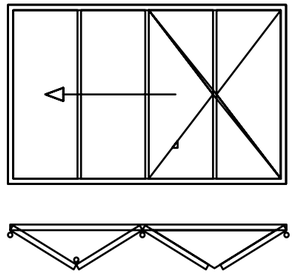
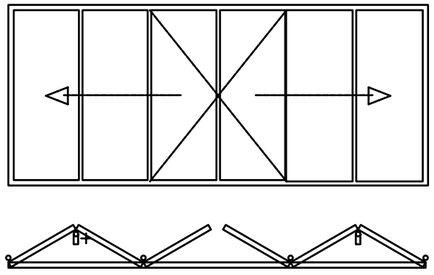
3+1
Opening inwards



3+3
Opening outwards



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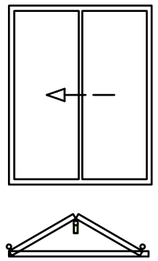
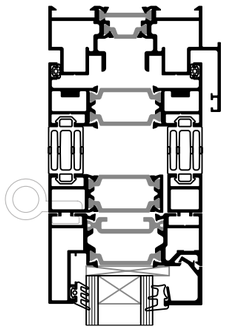
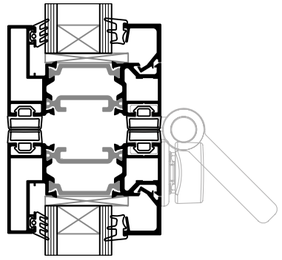
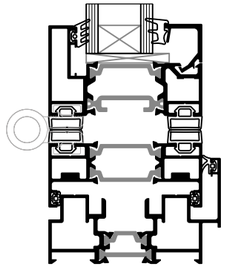
2+0
Opening outwards

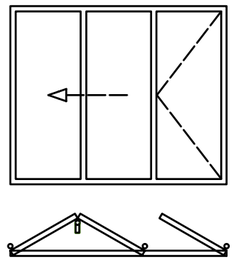


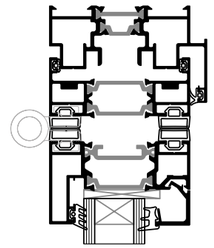


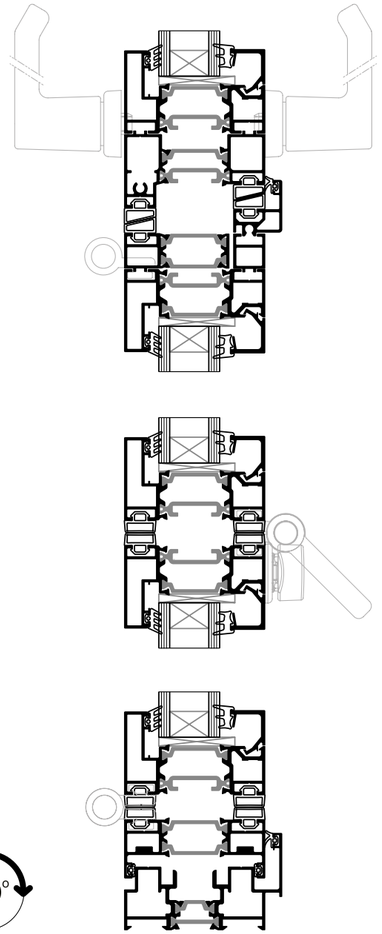


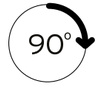


2+1
Opening outwards









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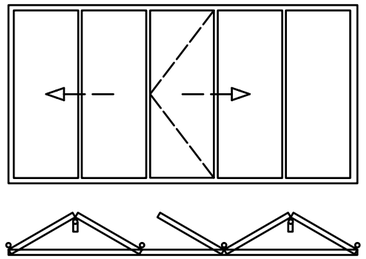
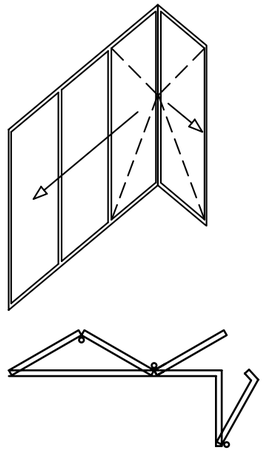
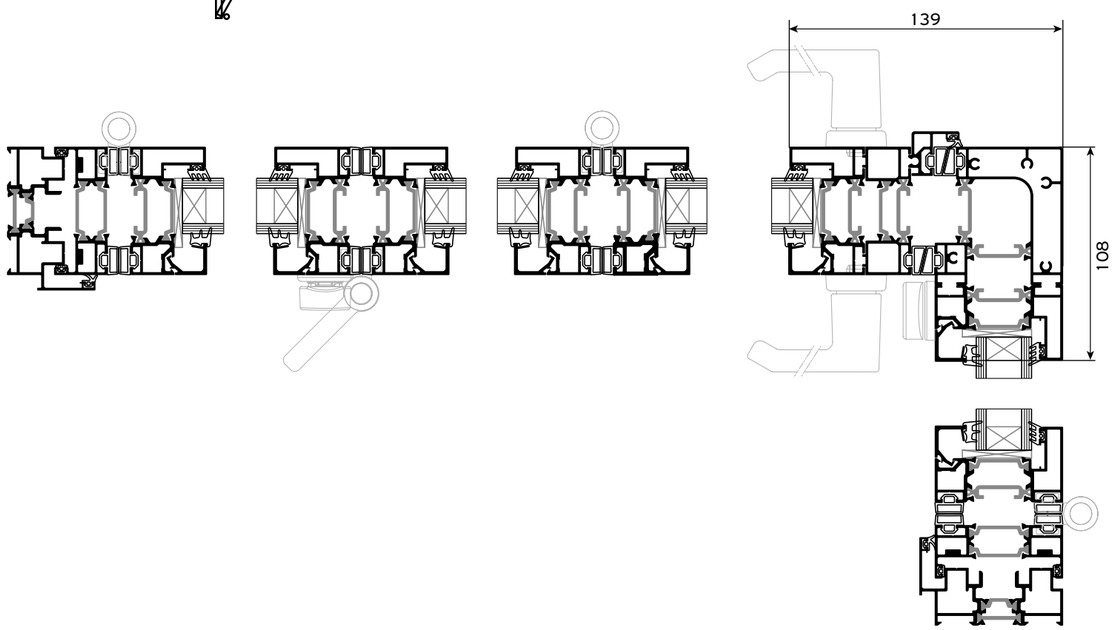
2+3
Opening outwards



3+1
Corner construction





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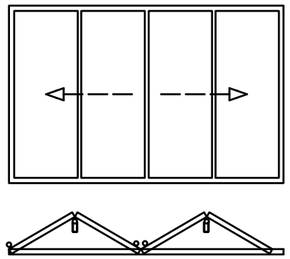
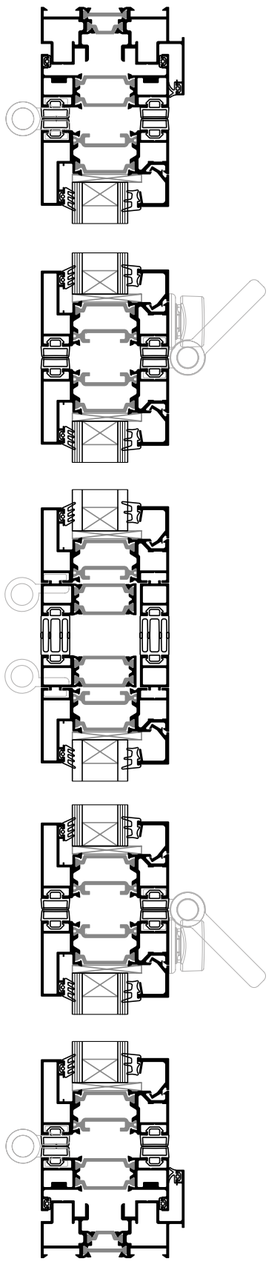
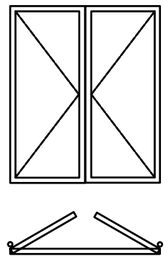
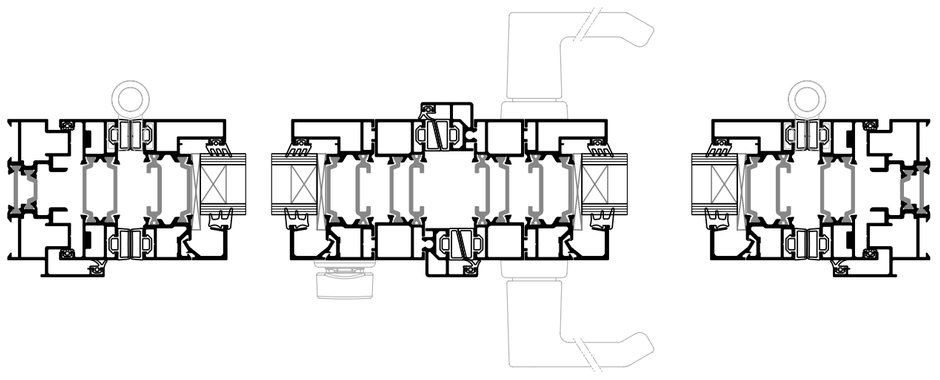
2+2
Opening outwards



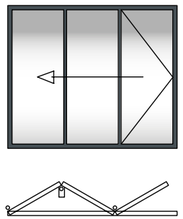


1+1
Opening outwards

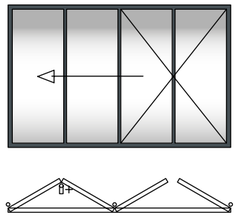




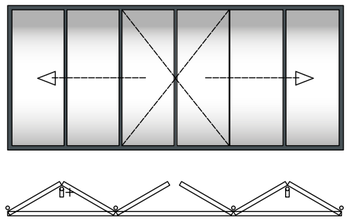
Applications



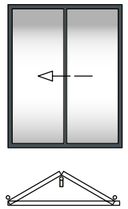
n+0



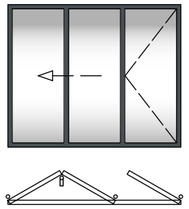
n+1



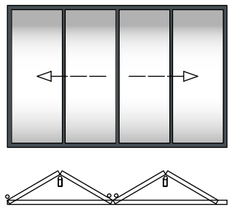
n+n



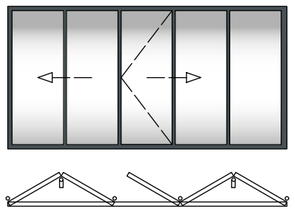
m+0



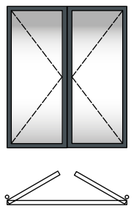
m+1



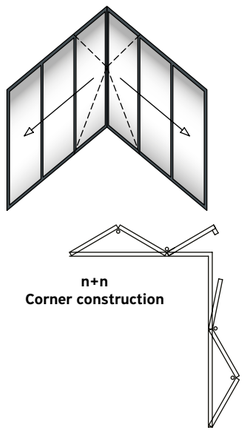
m+m



m+n



1+1



n+n
Corner construction

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).*

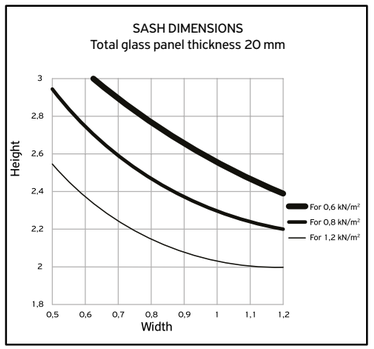
Table of performance

SMARTIA MF65

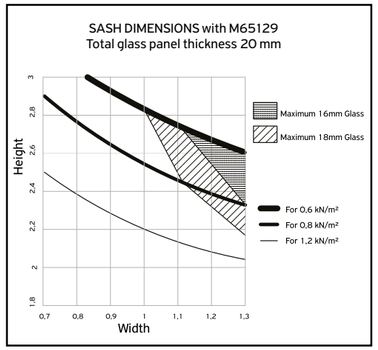
CERTIFICATION	CLASSIFICATION								
WATERTIGHTNESS EN 12208	1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	**8A (450 Pa)**	9A (600 Pa)
AIR PERMEABILITY EN 12207		1 (150 Pa)		2 (300 Pa)		**3 (600 Pa)**		4 (600 Pa)	
WIND LOAD RESISTANCE MAX TEST PRESSURE EN 12210	1 (400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

THERMAL PERFORMANCE	DIMENSIONS IN MM (W x H)	U_w in W/m²K (U_g = 0,6)	U_w in W/m²K (U_g = 0,8)	U_w in W/m²K (U_g = 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

Max Dimensions – Wind load
without aluminium reinforcement



Max Dimensions – Wind load
with aluminium reinforcement



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DISCOVER MORE:

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EN MAY 2023

Alumil