



Alumil
Building excellence every day

Alumil > SMARTIA
M9660 - MD9660



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SMARTIA M9660

is a hinged, thermally insulated system, designed to meet the requirements of regions with warm climate, offering competitive price combined with considerable thermal insulation performance. These features render SMARTIA M9660 an ideal solution for both new and renovated buildings in private and public projects.

When energy saving
meets minimal design.

SMARTIA M9660 provides a variety of options...

in terms of **design** (Standard and Minimal) and **energy solutions** (High, Advanced, Standard), that can cover **meet the trends and specifications of contemporary architecture.**



- Basic system depth 56 mm.
- Available in three energy versions: Standard-Advanced-High.
- Minimal look, thanks to concealed sash of 70,5 mm visible aluminium face width (Phos version).
- Special profiles, available for various entrance doors typologies.
- Available in various designs (flat, curved).
- European groove or PVC groove hardware can be applied.
- Certified by the ift Rosenheim institute.



Alumil SMARTIA
M9660

TECHNICAL

FEATURES



VISIBLE ALUMINIUM FACE WIDTH	91,5 mm
FRAME HEIGHT	45/55 mm
FRAME WIDTH	56 mm
SASH HEIGHT	63,5/74 mm
SASH WIDTH	63,5 mm
SASH WEIGHT	UP TO 180 kg
GLAZING	FROM 4 UP TO 47 mm
INSULATION	POLYAMIDES 24MM WIDTH, NRG BAR, PE INSULATION FOAM



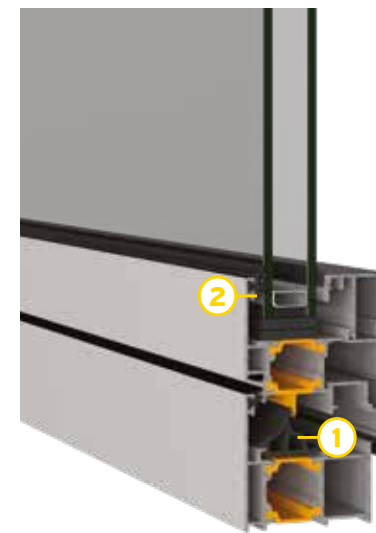
VARIETY

OF OPTIONS

Energy versions

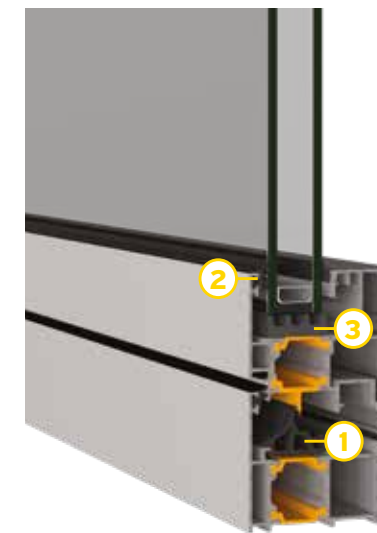
By choosing among different accessories, SMARTIA M9660 provides three different energy versions, satisfying every demand in terms of thermal efficiency.

STANDARD



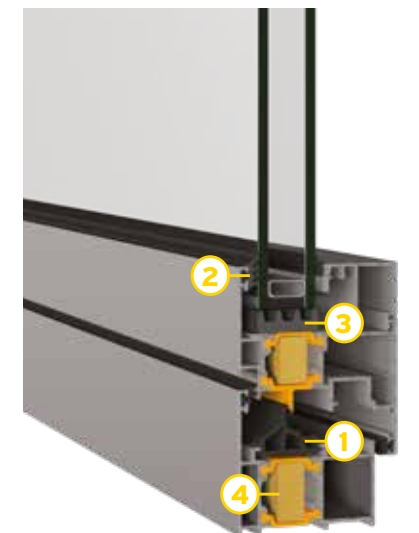
- 1. Multi chamber EPDM central gasket
- 2. One chamber EPDM wedge gasket

ADVANCED



- 1. Multi chamber EPDM central gasket
- 2. One chamber EPDM wedge gasket
- 3. PE Insulation Foam

HI



- 1. Multi chamber EPDM central gasket
- 2. One chamber EPDM wedge gasket
- 3. PE Insulation Foam
- 4. Energy Bar

ATTENTION

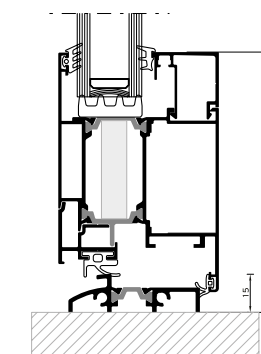
TO DETAIL

Secondary entrance doors

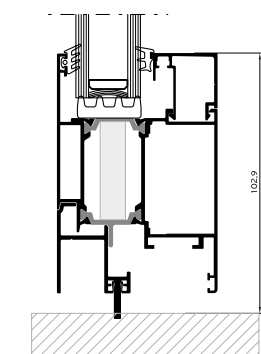
System's flexibility offers solutions in typologies that are mainly used as secondary entrance doors.

Pedestrian doors are available with three bottom configurations:

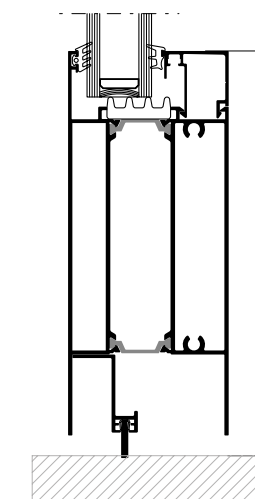
- Low threshold of 15mm height, which is in line with the legislation for Persons with Disabilities
- Without threshold
- Kickplate



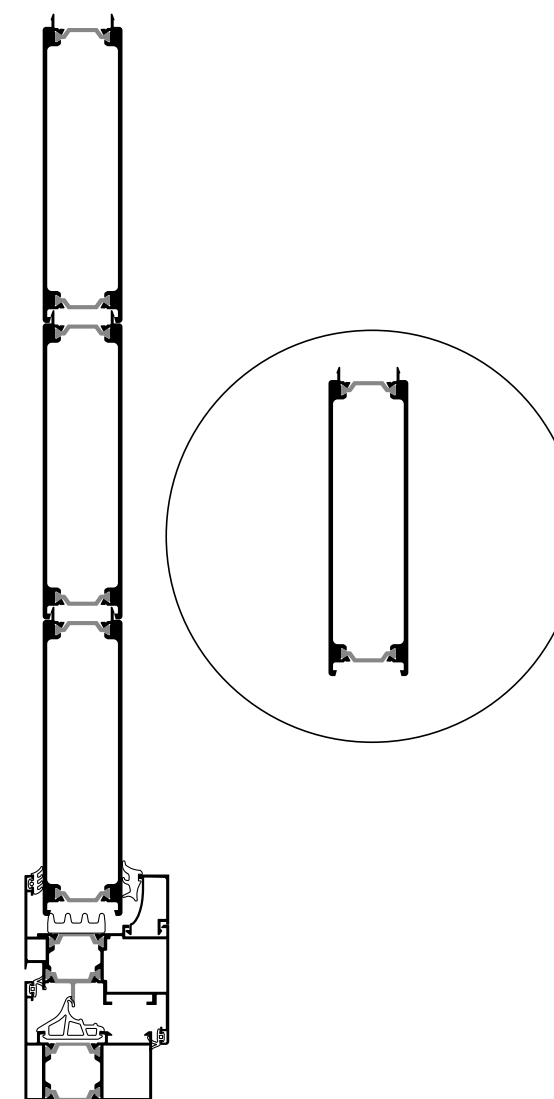
Low Threshold



Without Threshold



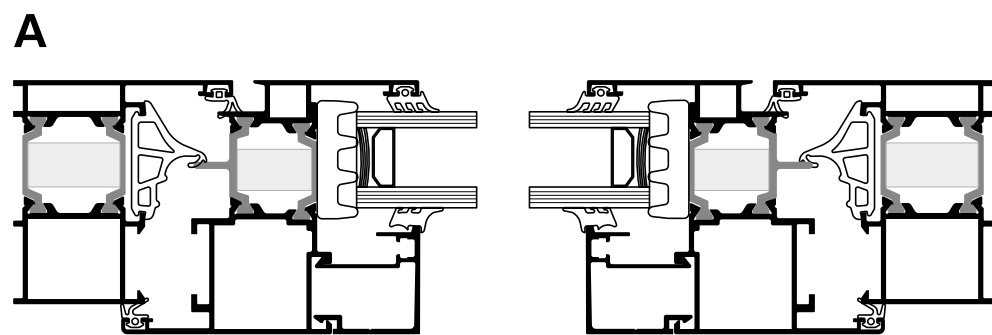
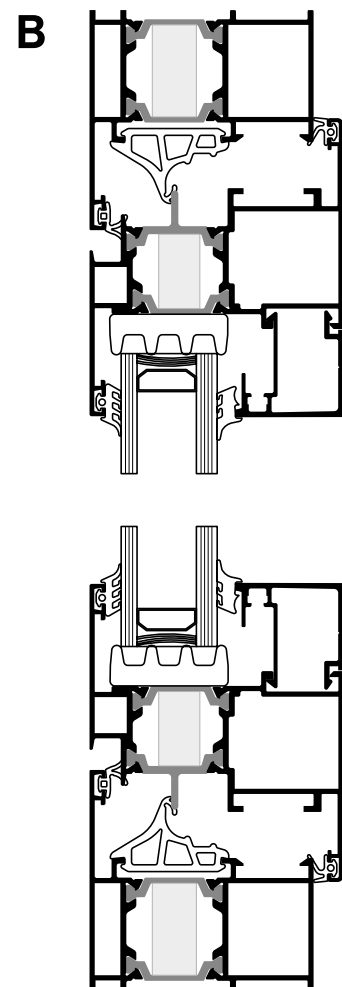
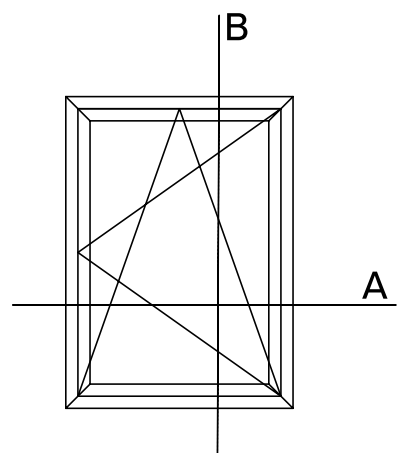
Kickplate



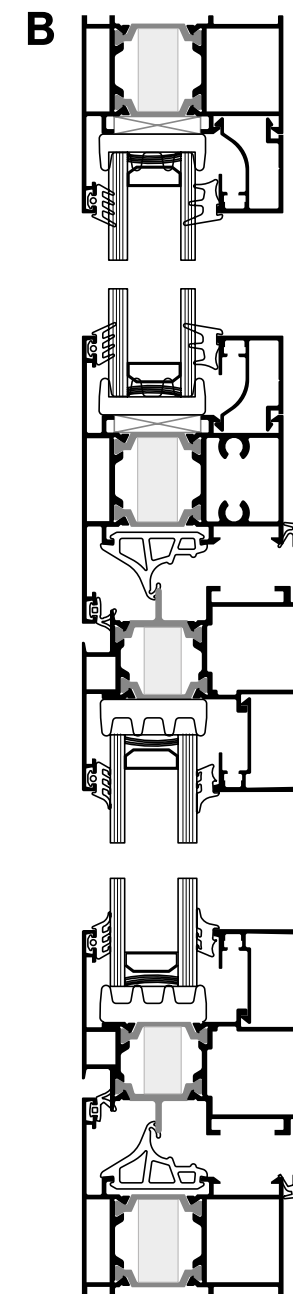
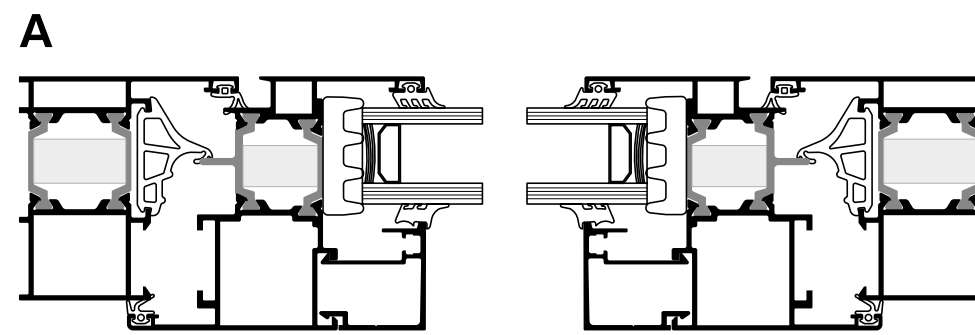
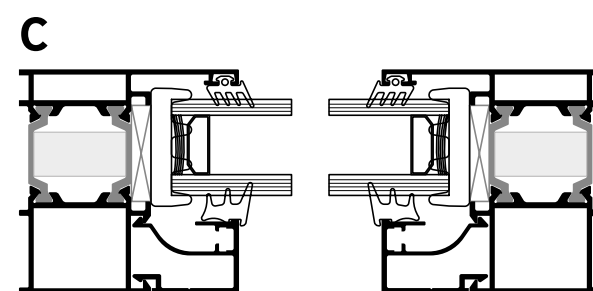
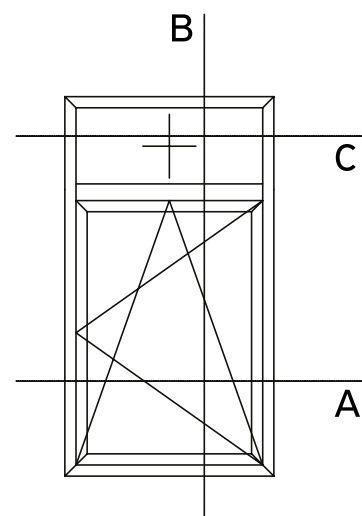
Shutter Panel Infill

Instead of using aluminium panel as infill, SMARTIA M9660 offers an alternative option, providing a thermal break shutter profile, which contributes significantly to the total thermal efficiency.

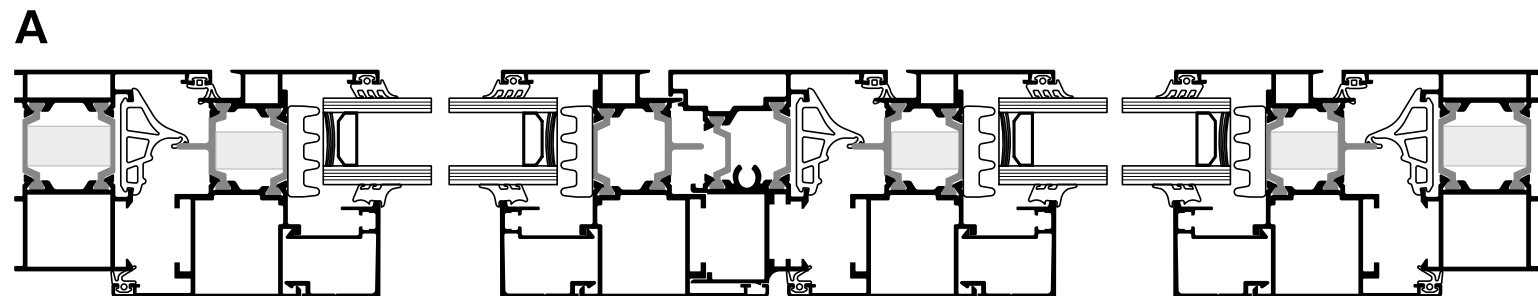
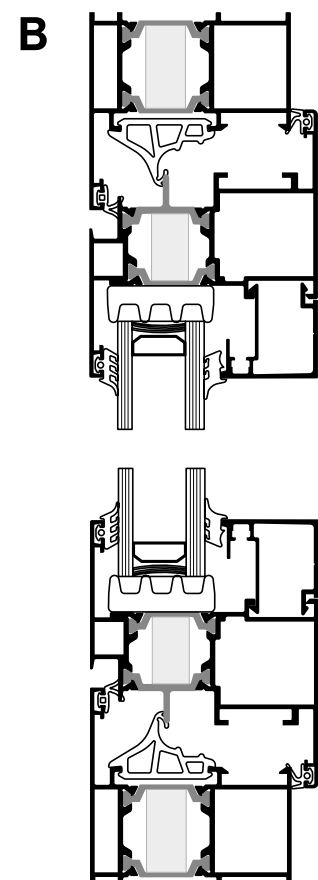
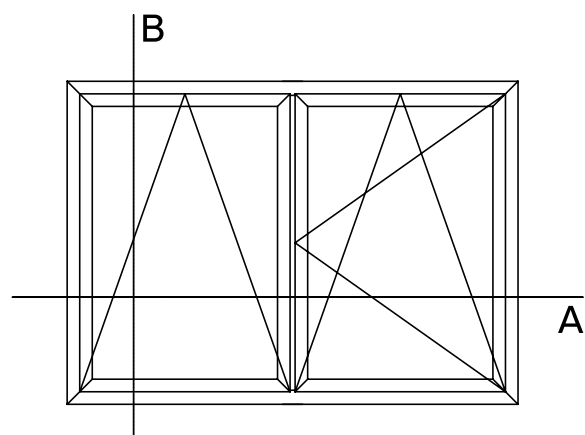
1 Sash



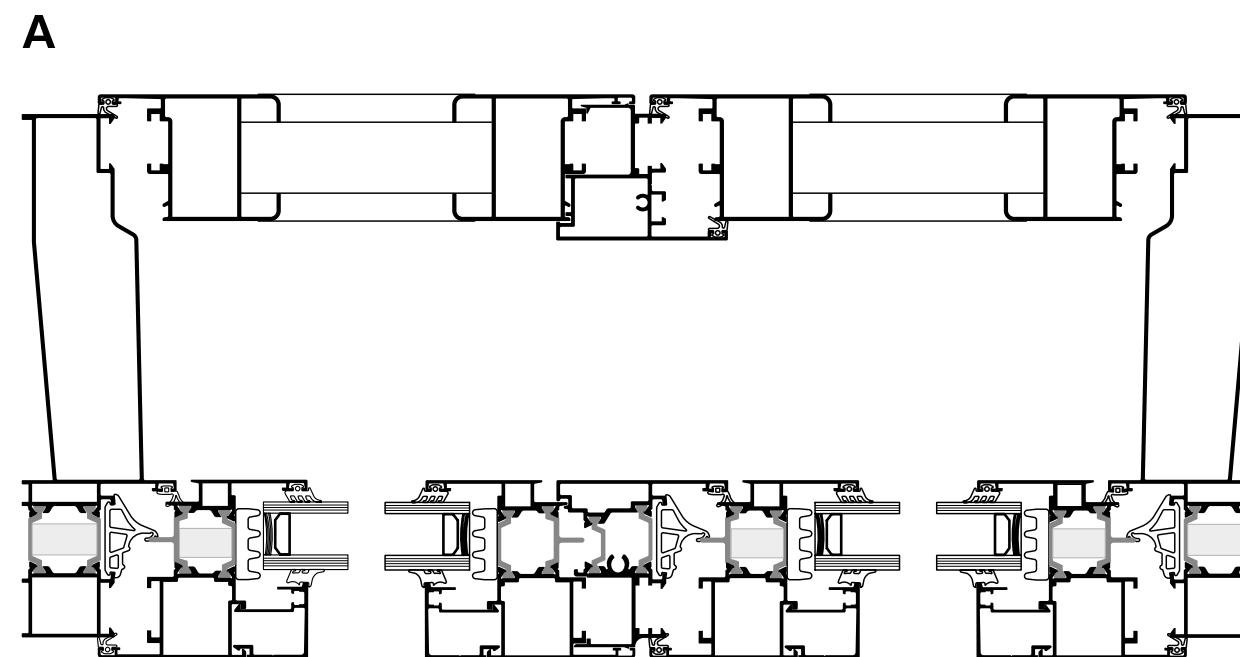
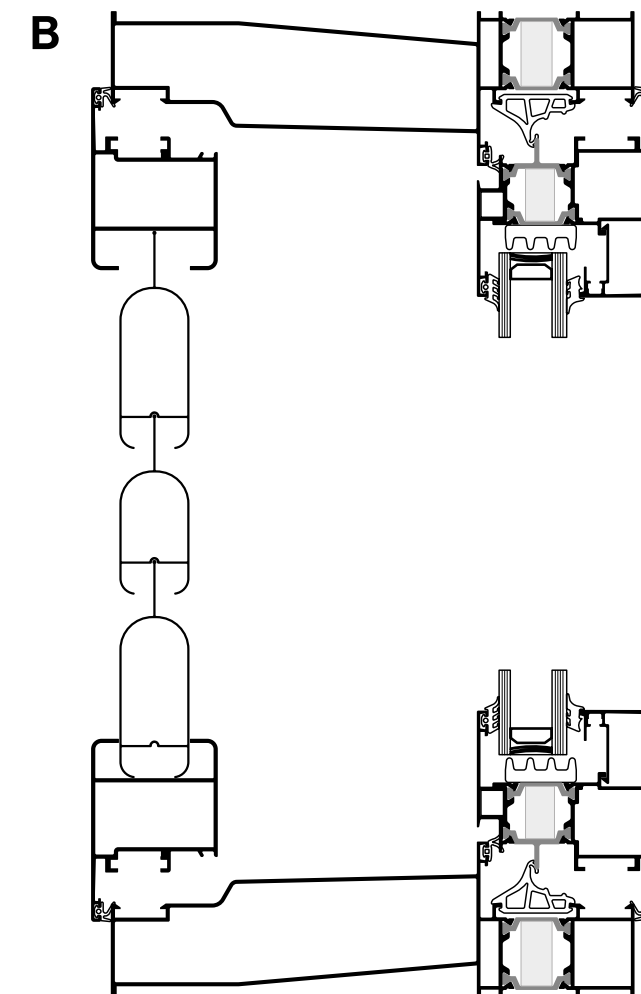
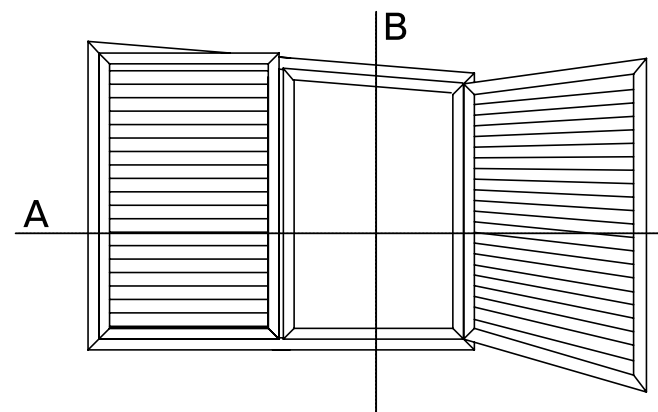
1 Sash / Fixed light



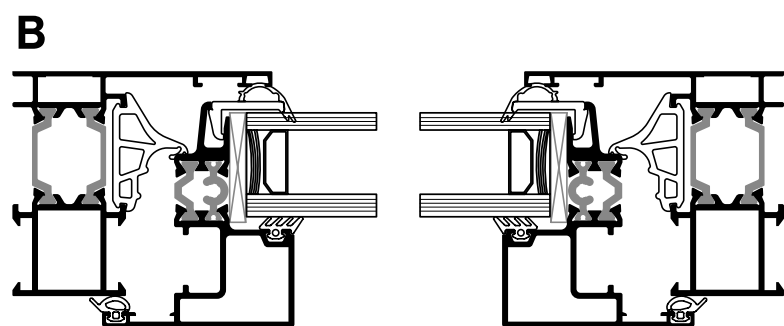
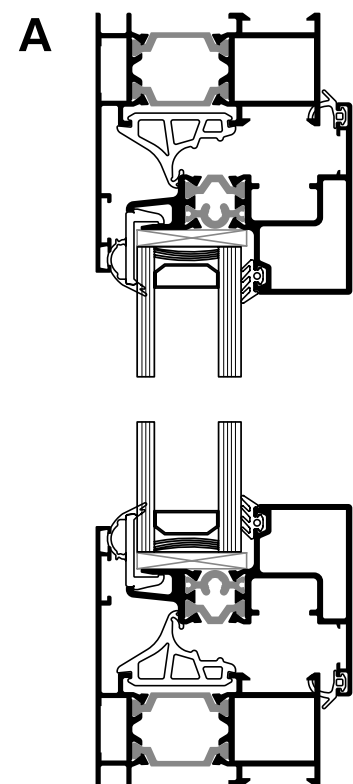
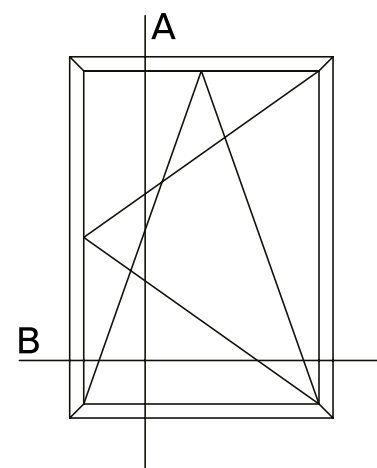
2 Sashes



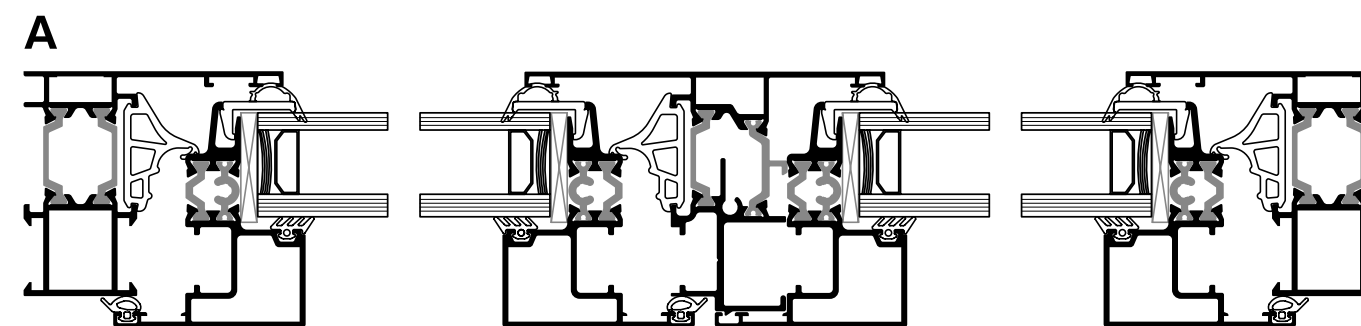
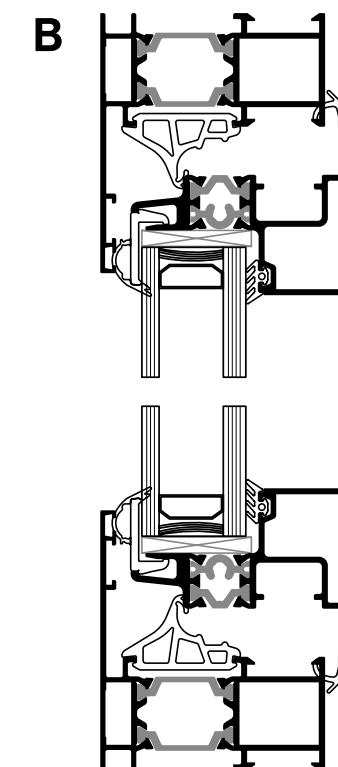
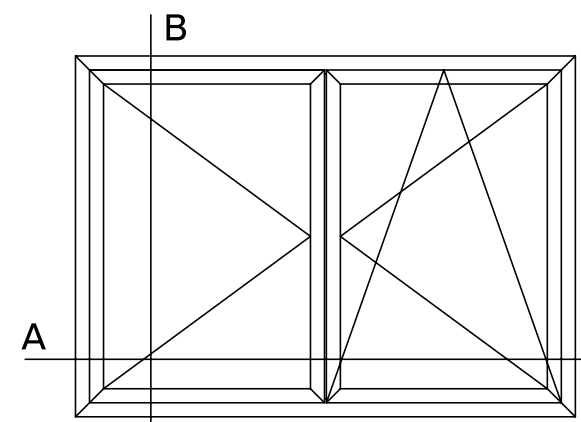
2 Sashes / Shutter



1 Sash / Hi

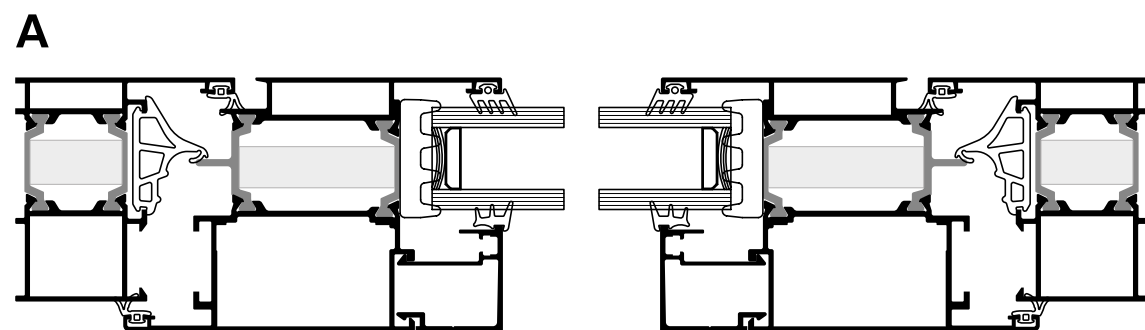
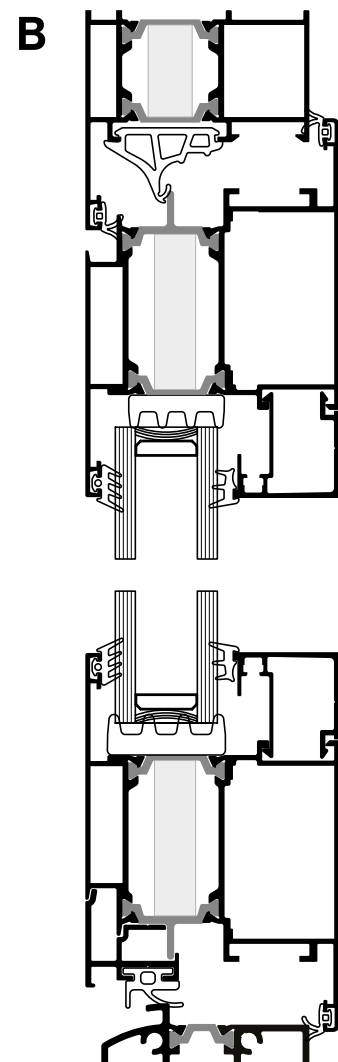
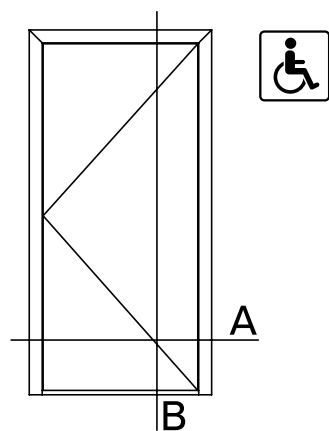


2 Sashes / Hi

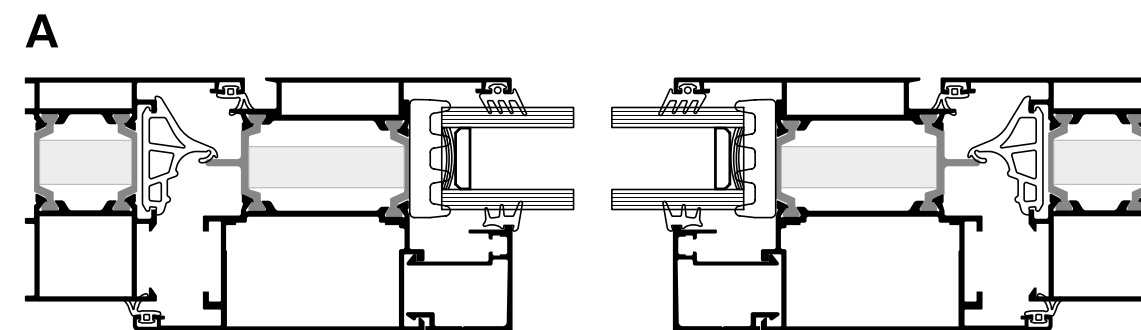
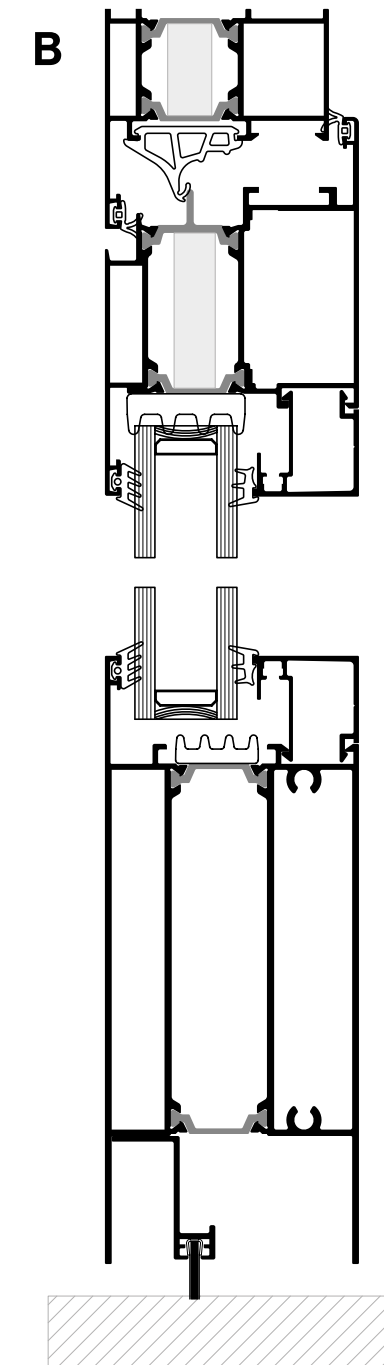
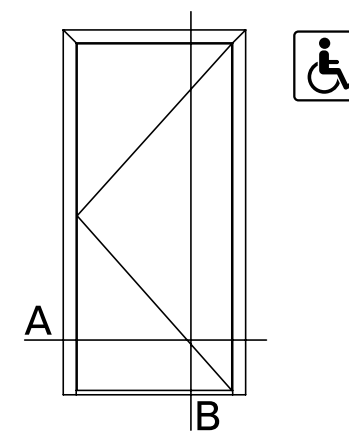


SECONDARY ENTRANCE DOORS

1 Sash / Inwards

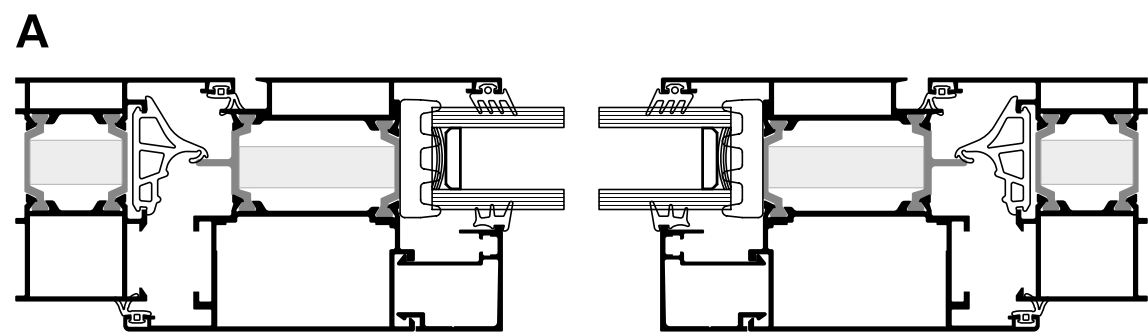
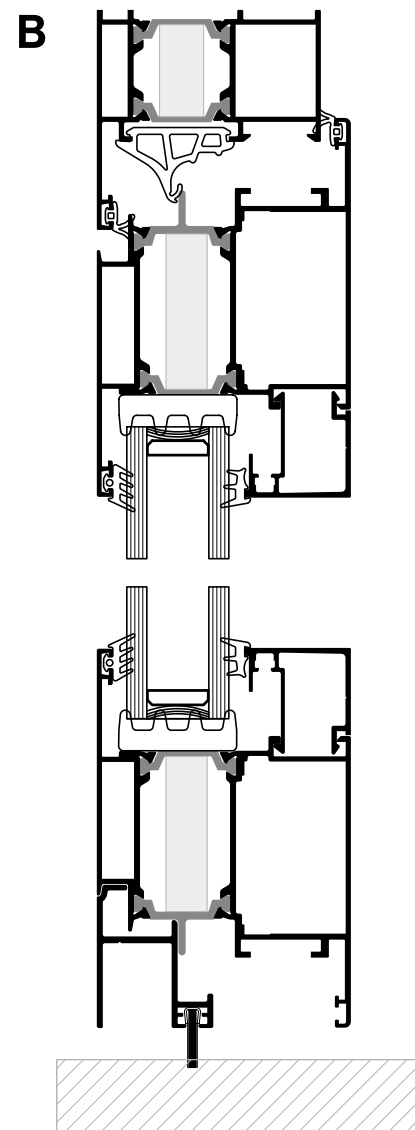
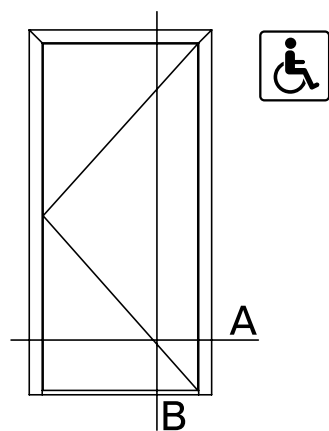


1 Sash / Inwards / Kickplate

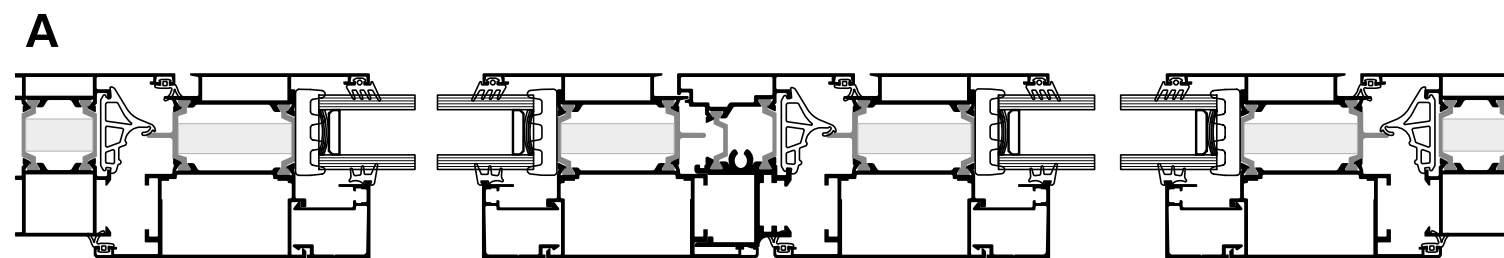
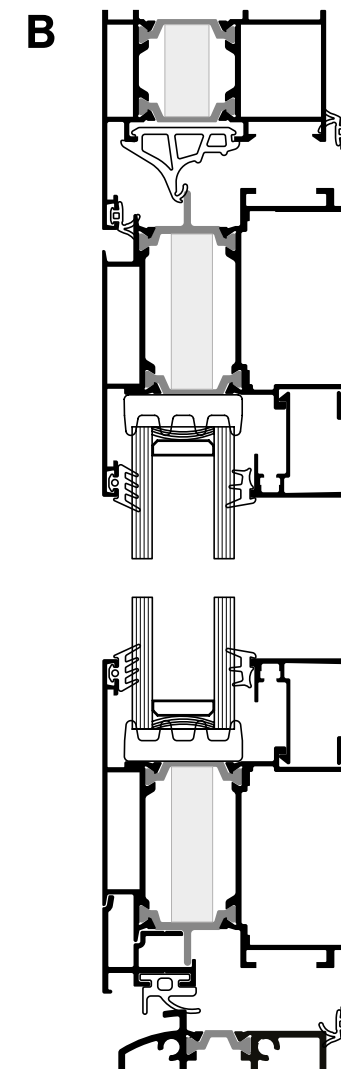
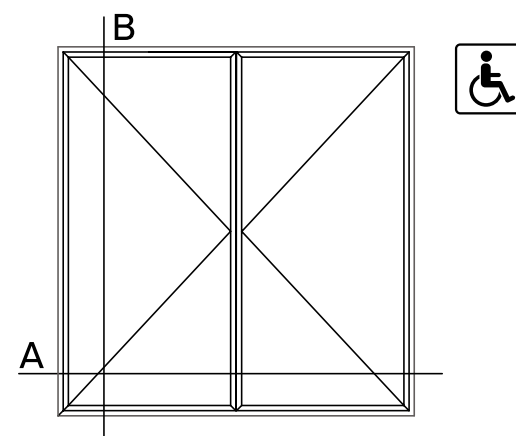


SECONDARY ENTRANCE DOORS

1 Sash / Inwards

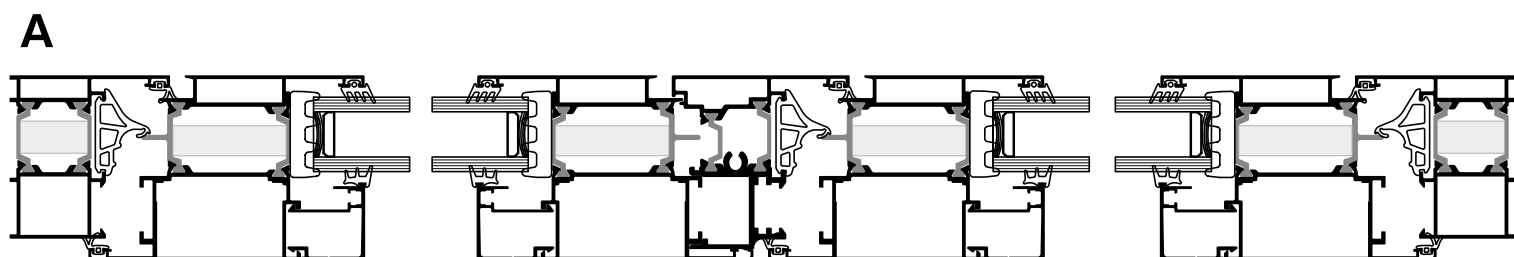
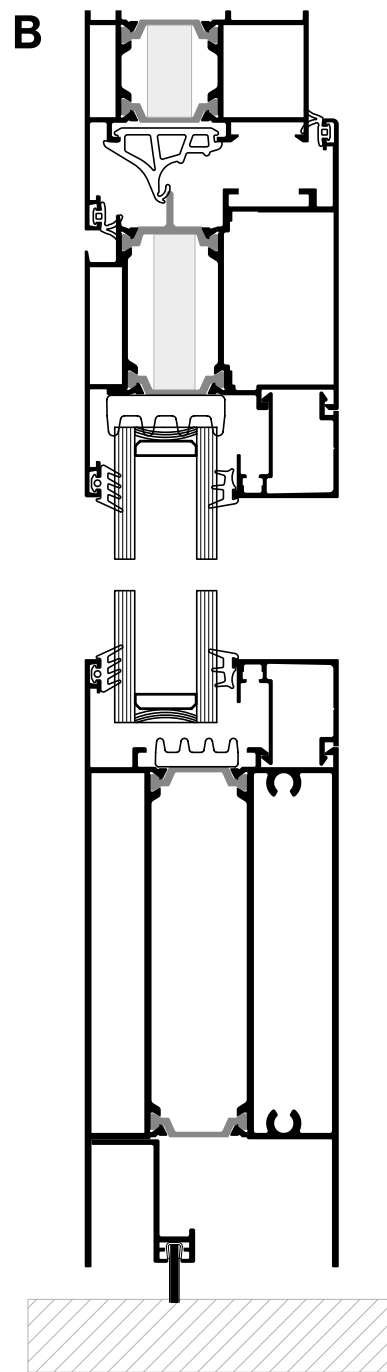
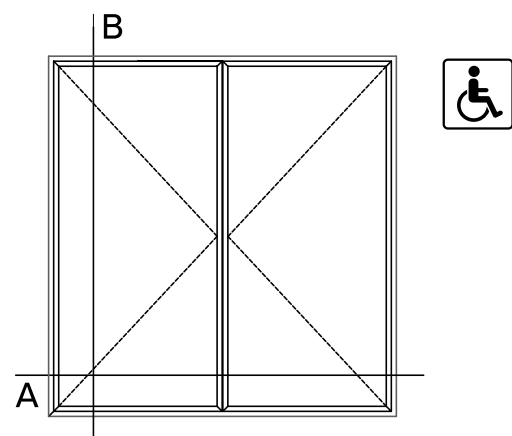


2 Sashes / Inwards

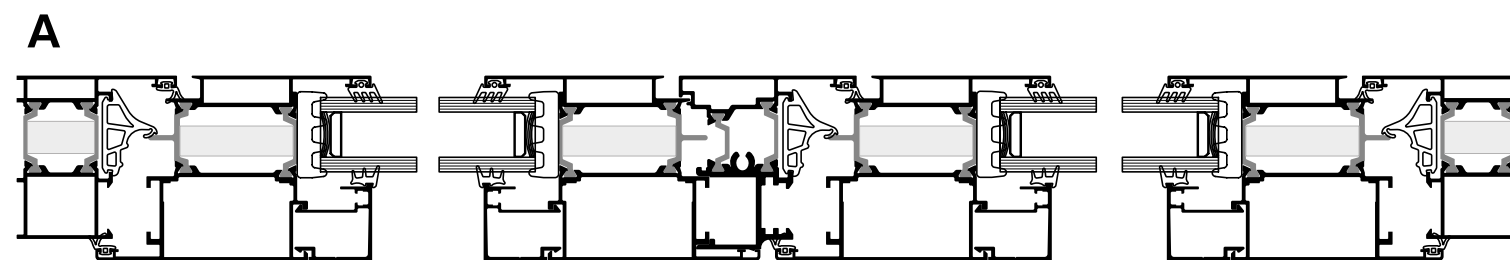
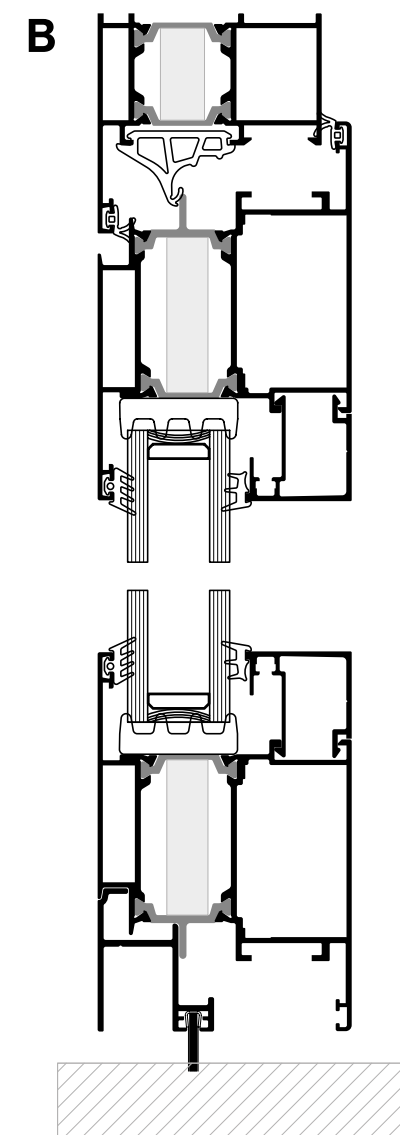
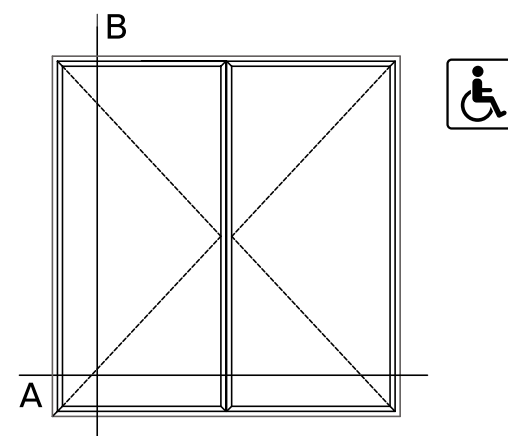


SECONDARY ENTRANCE DOORS

2 Sashes / Inwards / Kickplate

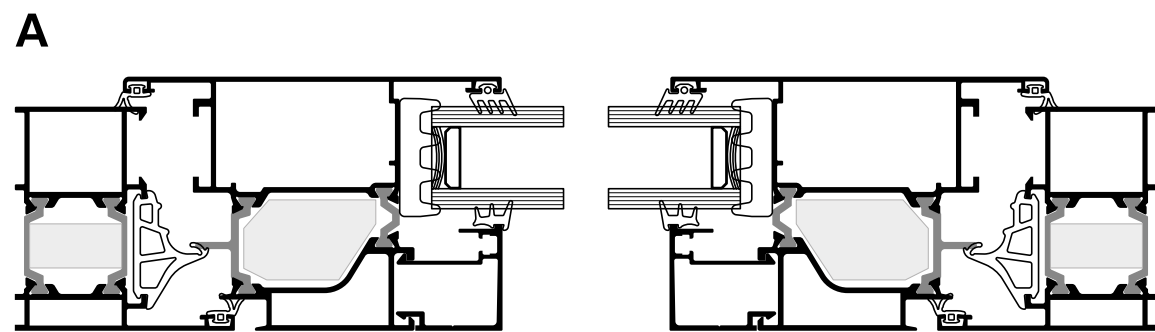
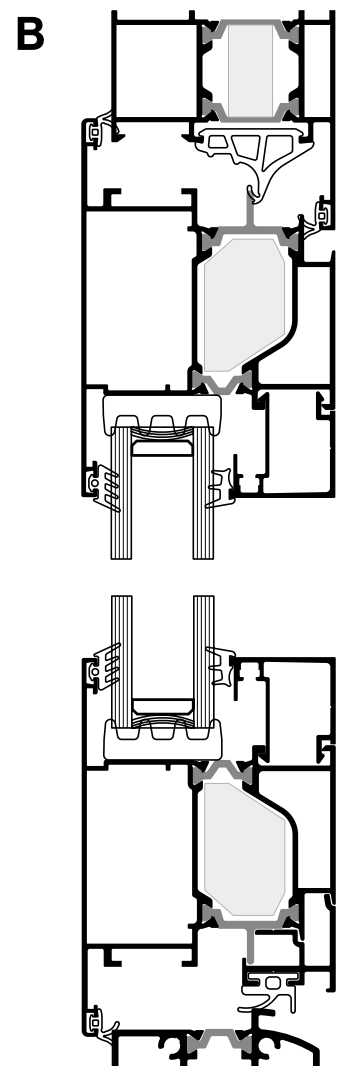
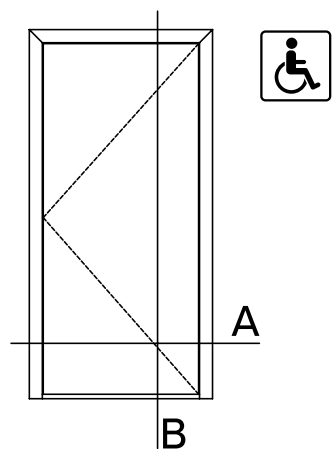


2 Sashes / Inwards

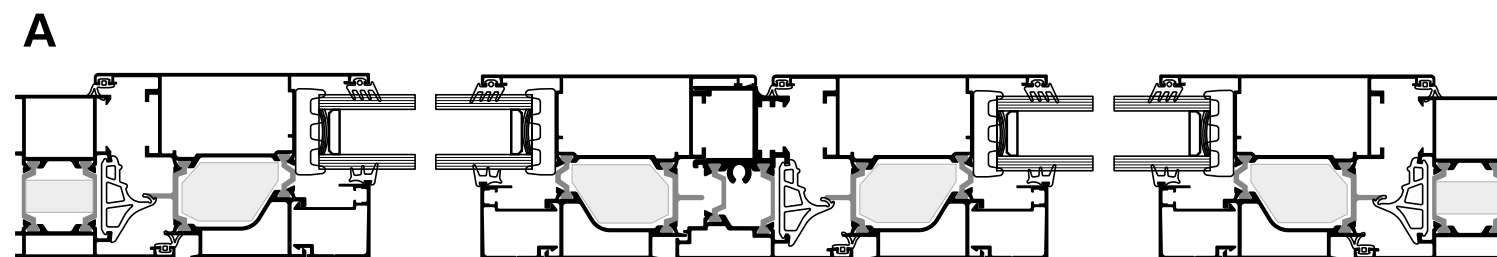
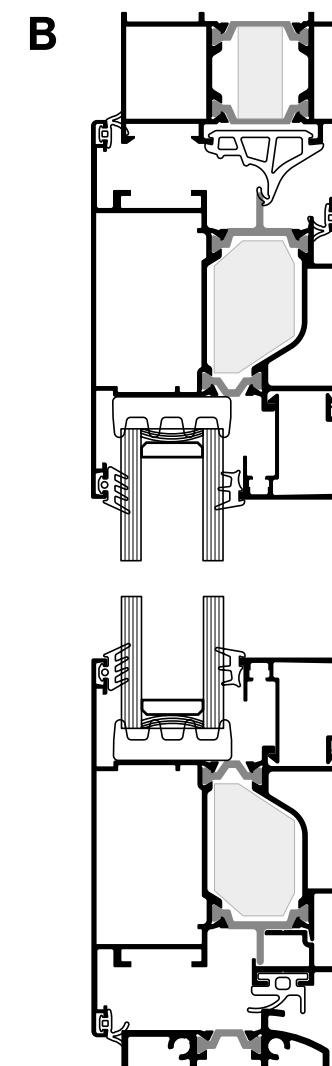
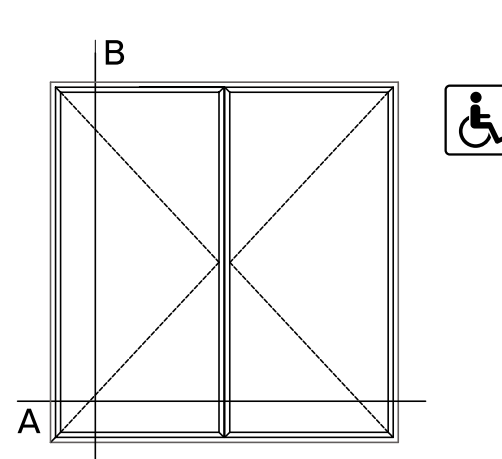


SECONDARY ENTRANCE DOORS

1 Sash / Outwards



2 Sashes / Outwards



SMARTIA M9660 PHOS offers a competitive alternative option in **concealed sash typologies**.

Thanks to its 70,5 mm visible sightline, **natural light is maximized**, providing a totally **minimal look** in the building.

Moreover, SMARTIA M9660 PHOS **provides a holistic approach** in projects that require standard and concealed design.



The system is available in two versions:



M9660 PHOS-Standard
Non-thermal break sash



M9660 PHOS-High
Thermal break sash

Alumil SMARTIA
M9660 PHOS

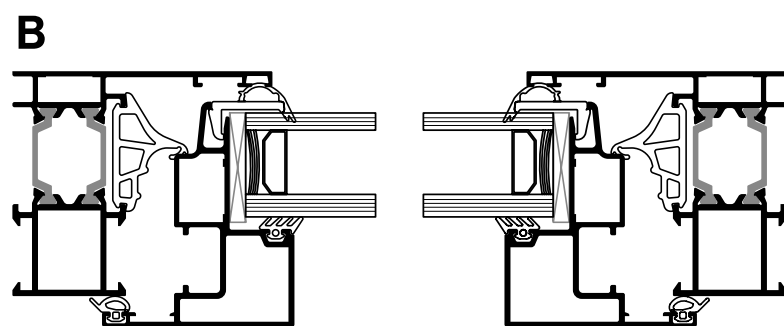
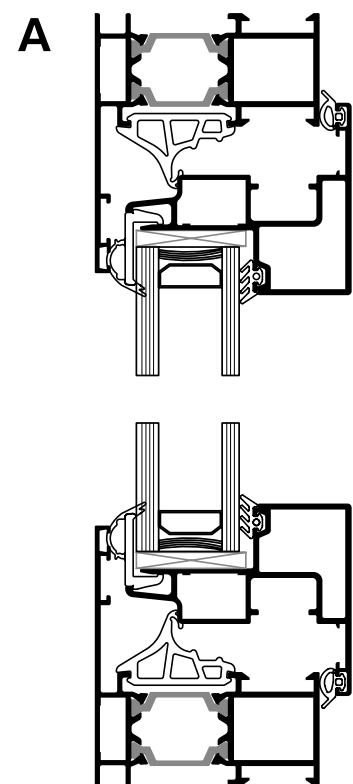
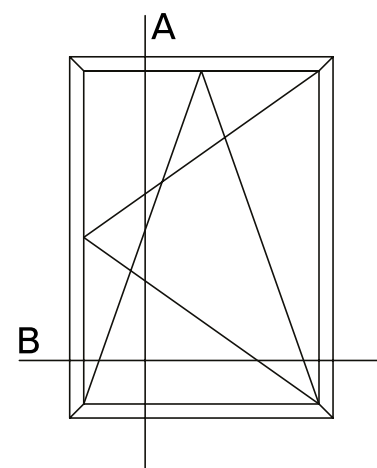
TECHNICAL

FEATURES

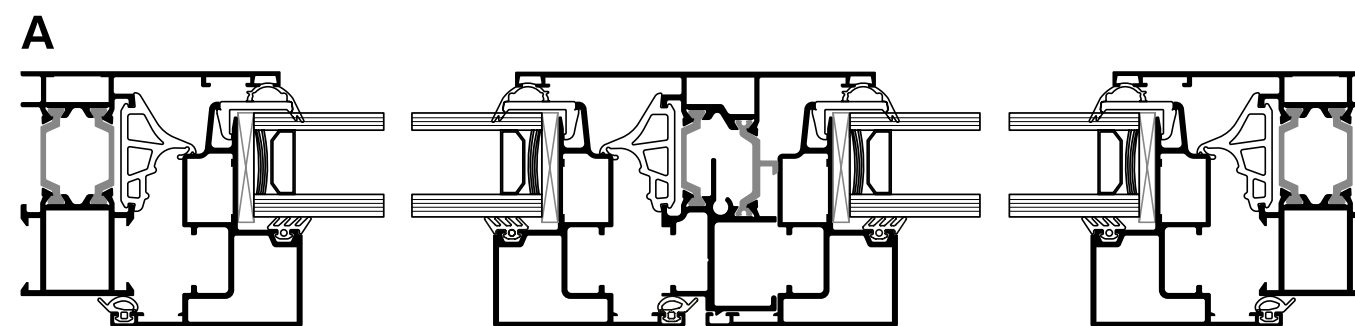
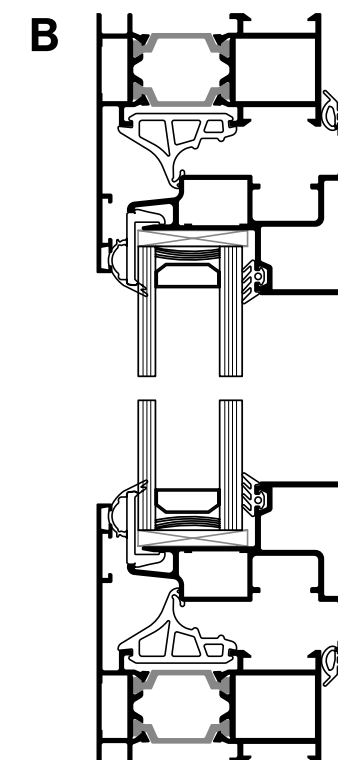
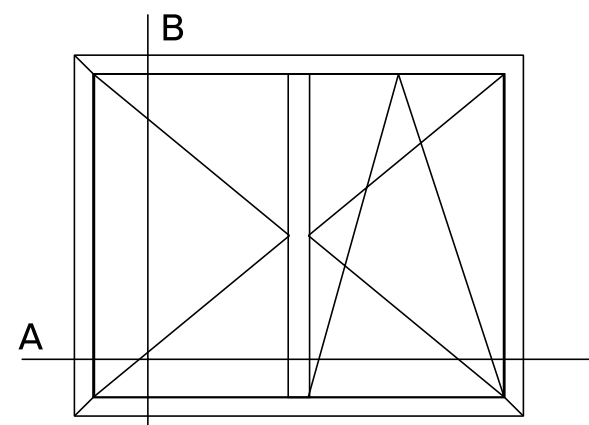


VISIBLE ALUMINIUM FACE WIDTH	70,5 mm
FRAME HEIGHT	65 mm
FRAME WIDTH	56 mm
SASH HEIGHT	48 mm
SASH WIDTH	56 mm
SASH WEIGHT	UP TO 180 kg
GLAZING	26 mm
INSULATION	POLYAMIDES 14MM WIDTH

1 Sash / Standard



2 Sashes / Standard



Main **entrance doors**
(flush) with MD9660

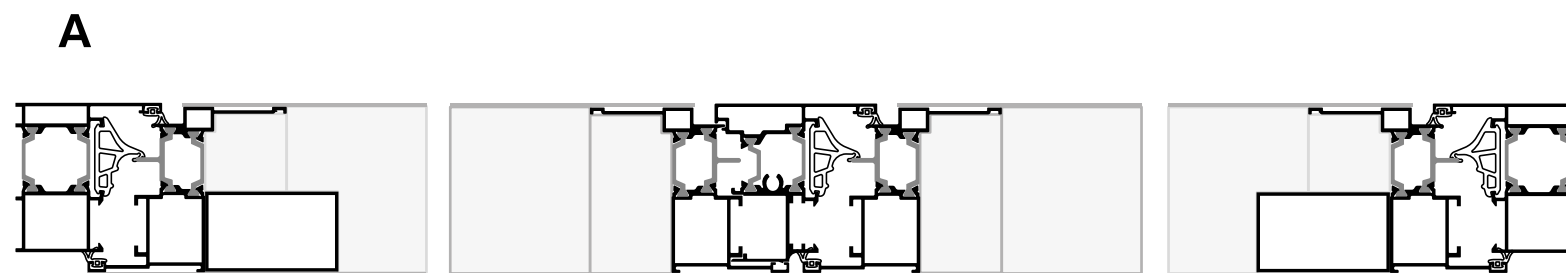
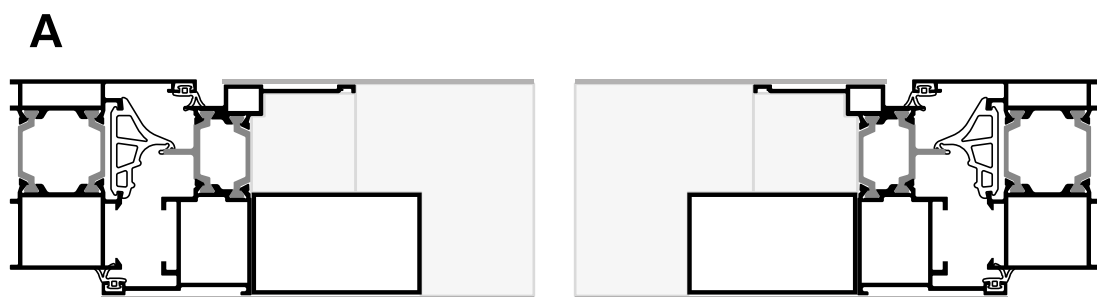
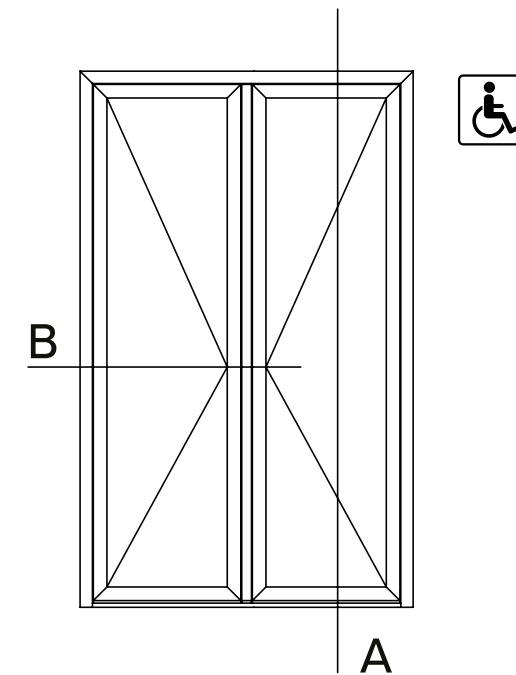
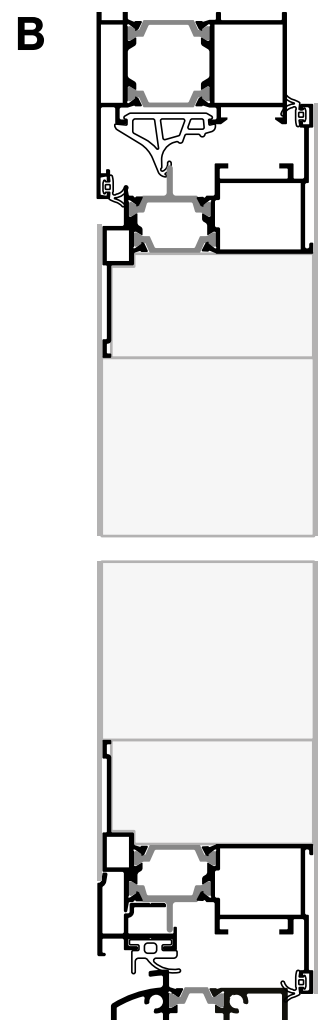
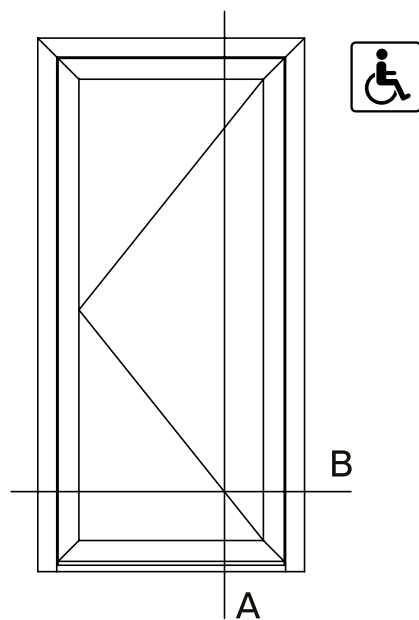
SMARTIA M9660, offers competitive entrance doors, maintaining at the same time, **the quality** and **credibility** of an advanced entrance door system.

Thanks to its flat design, it is a magnificent solution for **innovative projects of modern architectural approach.**



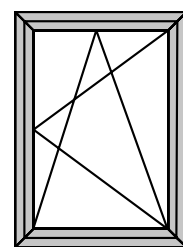
1 Sash / Inwards

2 Sashes / Inwards

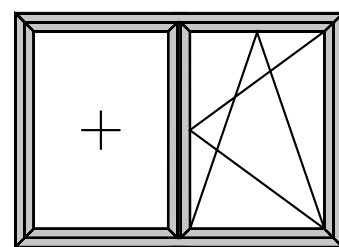


Applications

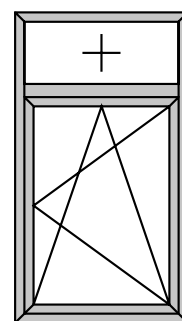
SMARTIA M9660



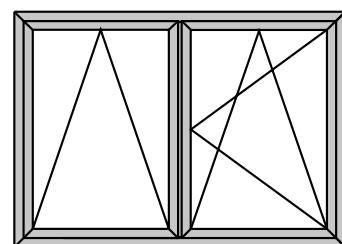
SINGLE TILT & TURN CASEMENT



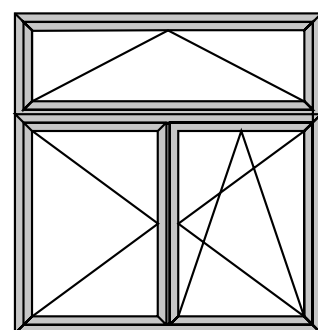
SINGLE TILT & TURN WITH FIXED LIGHT



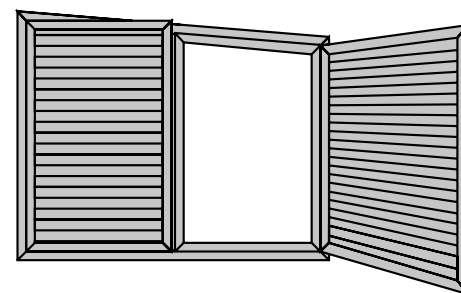
SINGLE TILT & TURN CASEMENT WITH FUNLIGHT



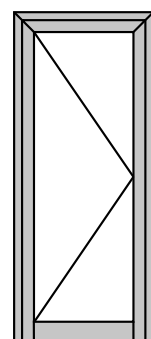
SINGLE TILT & TURN WITH SIDE - HUNG CASEMENT



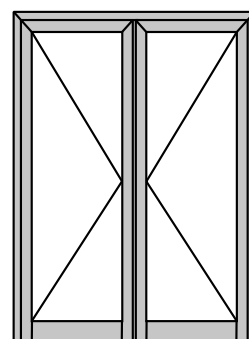
SINGLE TILT & TURN WITH SIDE - HUNG AND BOTTOM HUNG CASEMENT



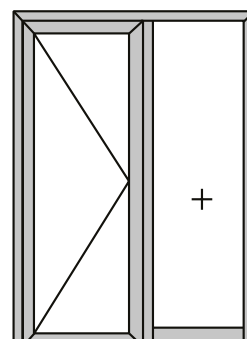
SINGLE TILT & TURN WITH SIDE - HUNG CASEMENT & WITH SHUTTER



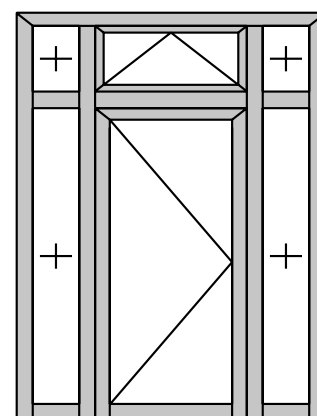
SINGLE LEAF DOOR



DOUBLE LEAF DOOR

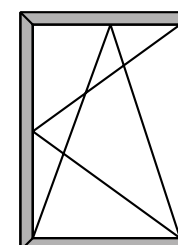


SINGLE LEAF DOOR WITH FIXED LIGHT

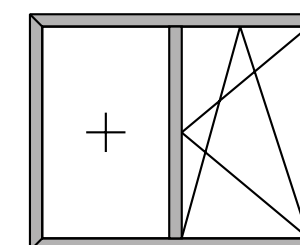


SINGLE LEAF DOOR WITH FANLIGHT AND FIXED LIGHTS

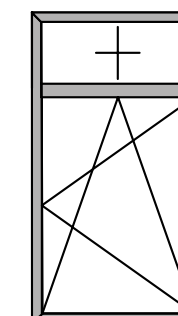
SMARTIA M9660 PHOS



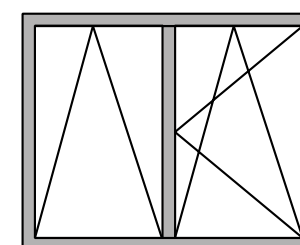
SINGLE TILT & TURN CASEMENT



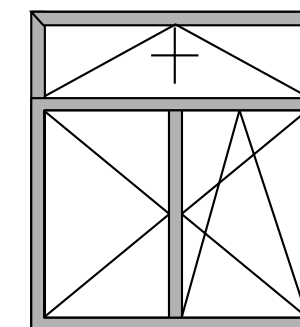
SINGLE TILT & TURN WITH FIXED LIGHT



SINGLE TILT & TURN CASEMENT WITH FUNLIGHT

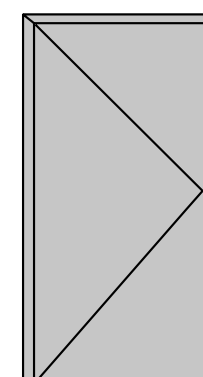


SINGLE TILT & TURN WITH SIDE - HUNG CASEMENT

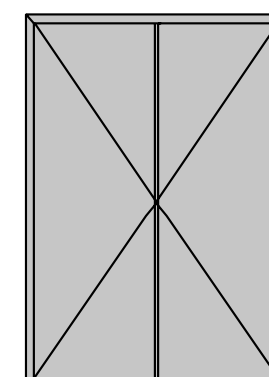


SINGLE TILT & TURN WITH SIDE - HUNG AND BOTTOM HUNG CASEMENT

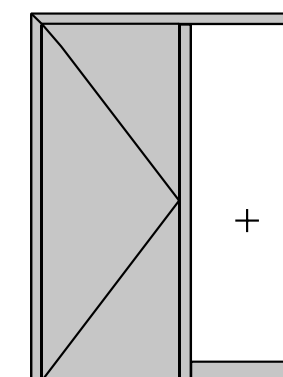
SMARTIA MD9660



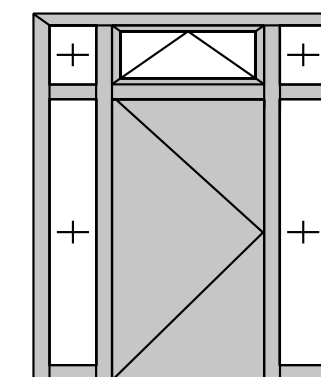
SINGLE LEAF DOOR WITH INSULATION PANEL



DOUBLE LEAF DOOR WITH INSULATION PANEL









SINGLE LEAF DOOR WITH INSULATION PANEL AND FIXED LIGHT



SINGLE LEAF DOOR WITH INSULATION PANEL, FANLIGHT AND FIXED LIGHTS





Table of performance

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M9660

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)	E1650 (1650 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 ($\leq 1/150$)			B ($\leq 1/200$)			C ($\leq 1/300$)			
 BURGLAR RESISTANCE EN 1627 -1630	RC 1			RC 2				RC 3		
 SOUND REDUCTION EN ISO 140-3	Rw (C;Ctr) = 45 (-1, -8) dB depending from the glazing type									

THERMAL PERFORMANCE	DIMENSIONS IN MM (W x H)	U_w in W/m^2K ($U_g = 0,6$)	U_w in W/m^2K ($U_g = 0,8$)	U_w in W/m^2K ($U_g = 1,0$)
1 SASHES / HI	1000 x 2200	1,09	1,24	1,38
2 SASHES / HI	1500 x 2200	1,17	1,31	1,46
1 SASHES / ADVANCED	1000 x 2200	1,18	1,32	1,47
2 SASHES / ADVANCED	1500 x 2200	1,26	1,40	1,55
1 SASH / STANDARD	1000 x 2200	1,21	1,35	1,49
2 SASHES / STANDARD	1500 x 2200	1,30	1,44	1,60

SMARTIA
M9660 PHOS

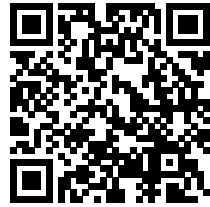
CERTIFICATION	CLASSIFICATION									
 WATER TIGHTNESS EN 12208	1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	8A (450 Pa)	9A (600 Pa)	
 AIR PERMEABILITY EN 12207	1		2		3			4		
 WIND LOAD RESISTANCE MAX TEST PRESSURE EN 12210	1 (400 Pa)		2 (800 Pa)		3 (1200 Pa)		4 (1600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

THERMAL PERFORMANCE	DIMENSIONS IN MM (W x H)	U_w in W/m^2K ($U_g = 0,9$)	U_w in W/m^2K ($U_g = 1,1$)	U_w in W/m^2K ($U_g = 1,3$)
1 SASHES / HI	1000 x 2200	1,31	1,47	1,63
2 SASHES / HI	1500 x 2200	1,36	1,52	1,68
1 SASH / STANDARD	1000 x 2200	1,45	1,61	1,77
2 SASHES / STANDARD	1500 x 2200	1,53	1,69	1,84

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DISCOVER MORE:

M9660



M9660 PHOS



MD9660



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