Alumil

Building excellence every day

SMARTIA

S61

AT ALUMIL,
WE ARE BUILDING
EXCELLENCE
EVERY DAY.

THROUGH OUR STATE-OF-THE-ART FACILITIES AND RIGOROUS QUALITY CONTROLS ACROSS THE ENTIRE PRODUCTION LINE, WE ENSURE THE CREATION OF HIGH-QUALITY, VALUE-ADDED PRODUCTS. OUR CONTINUOUS RESEARCH AND DEVELOPMENT DRIVE THE DELIVERY OF UNIQUE SOLUTIONS WITH INNOVATIVE FEATURES THAT MEET THE DIVERSE NEEDS OF OUR CUSTOMERS.

CONTENTS

SMARTIA S61

OVERVIEW 02

KEY FEATURES AND TECHNICAL CHARACTERISTICS 04

WORTH NOTICING 10
- ENERGY OPTIONS
- SYSTEM'S SEALING
- LOW THRESHOLD TYPOLOGIES

PATIO DOORS 12
- INTRO
- BOTTOM CONFIGURATION OPTIONS
- HARDWARE VARIETY

SECTIONS 18

INSTALLATIONS 32

APPLICATIONS 35

PERFORMANCE 36

SMARTIA
S61

THE FUTURE OF MODULAR HINGED SYSTEMS.

SMARTIA S61 is the latest addition to ALUMIL's hinged systems portfolio, featuring a modular design that enables flexible configurations and a wide range of applications.

Whether for a contemporary boutique hotel or a sophisticated apartment complex, SMARTIA S61 is designed to meet the demands of modern architecture.

SMARTIA S61 is a sophisticated, thermally-insulating hinged system that combines modern design with exceptional performance.

Its modular structure allows for flexible configurations, making it ideal for both residential and commercial applications. From stylish windows to seamless patio doors, SMARTIA S61 enhances any space by combining functionality with contemporary aesthetics, creating a seamless connection between indoor and outdoor environments.

KEY BENEFITS

- Basic system depth: 61 mm.
- Three energy-efficient options offer versatile solutions for enhanced insulation and reduced overall energy costs.
- Significant sound reduction thanks to triple glazing up to 52 mm.
- Enhanced aesthetics and accessibility with a low threshold of 14 mm.
- High safety using multi-point locking mechanisms.
- Ideal for both new constructions and renovations, as it fully meets the criteria for household energy upgrade programs.

SPECS

MINIMUM ALUMINIUM FACE WIDTH
93 mm

FRAME HEIGHT
51 / 57.5 / 61 / 71 mm

FRAME WIDTH
61 mm

SASH HEIGHT
73 / 107 / 110 mm

SASH WIDTH
69 mm

MAXIMUM SASH WEIGHT
UP TO 180 KG

GLAZING INFILL
UP TO 52 mm

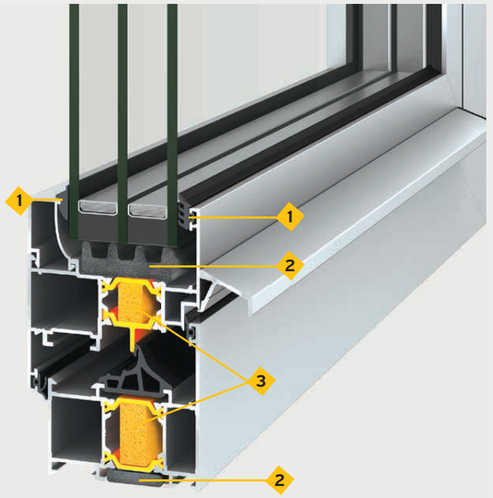
INSULATION
24MM GLASS REINFORCED POLYAMIDE

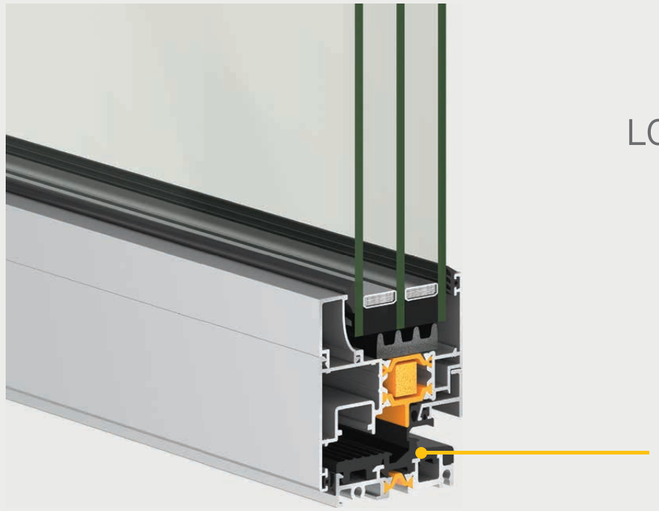
WORTH NOTICING

ENERGY OPTIONS

By selecting from a range of accessories, SMARTIA S61 offers flexibility in terms of thermal efficiency, improving insulation performance and reducing overall energy costs.

	STANDARD	ADVANCED	HIGH
1 GLAZING GASKETS	●	●	●
2 INSULATION FOAM		●	●
3 INSULATION BARS			●





LOW THRESHOLD SOLUTIONS

Low bottom frame option for balcony doors offering significant benefits in terms of accessibility, design aesthetics, convenience, and performance, making them a practical and stylish choice for modern homes and buildings.

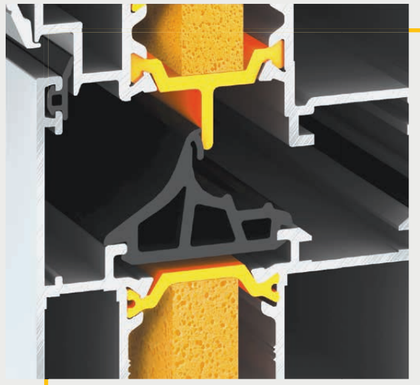
SOPHISTICATED DESIGNED GASKETS GUARANTEE THE SYSTEM'S EFFICIENT WATERPROOFING

WORTH NOTICING

SYSTEM SEALING

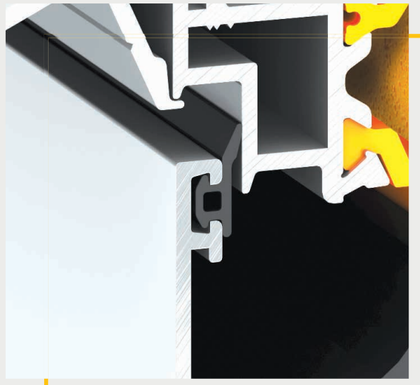
Three levels of sealing to ensure:

- IMPROVED ENERGY EFFICIENCY,
- WEATHERPROOFING
- NOISE REDUCTION
- INCREASED DURABILITY



EPDM central gasket, which serves as the primary barrier between the window frame and the sash, helping to block air and water infiltration. This enhances the overall weatherproofing of the system, preventing the leaks.

EPDM two-wing gasket that creates a tight seal between the sash and the frame when the window is closed. This prevents air and water infiltration, keeping the interior protected from external weather conditions such as rain, wind, and temperature fluctuations.



EPDM single-wing gasket that acts as an additional protective seal between the frame and the sash.

SMARTIA
S61

PATIO DOORS

FLEXIBILITY, MODULARITY AND FUNCTIONALITY AT ITS BEST

The SMARTIA S61 system provides a comprehensive solution for modern residential and commercial buildings. In addition to windows, it supports functional and stylish patio doors, seamlessly connecting indoor and outdoor spaces while enhancing the overall aesthetic of the home.

With its versatile range of configurations, SMARTIA S61 patio doors are an ideal choice for everything from contemporary villas to office complexes, offering both functionality and modern design.

BOTTOM CONFIGURATION OPTIONS

System versatility offers three distinct bottom configuration options for patio door typologies.

ADDITIONAL PROFILE
WITHOUT THRESHOLD

WINDSHIELD
OPTION

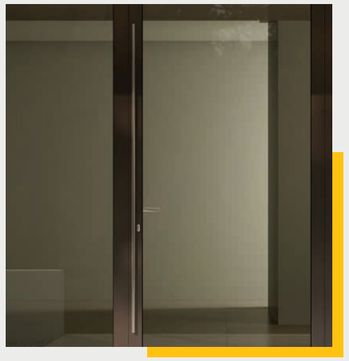
HARDWARE OPTIONS

LOCKING OPTIONS

SMARTIA S61 offers high security with multi-point locking mechanisms, available in a wide variety of options.

HANDLES

The standard door handles, featuring ALUMIL's patented design, are available in a wide range of colors. In addition, the system offers fixed stainless steel door handles, combining both elegance and functionality.



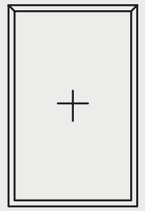
HEAVY DUTY HINGES

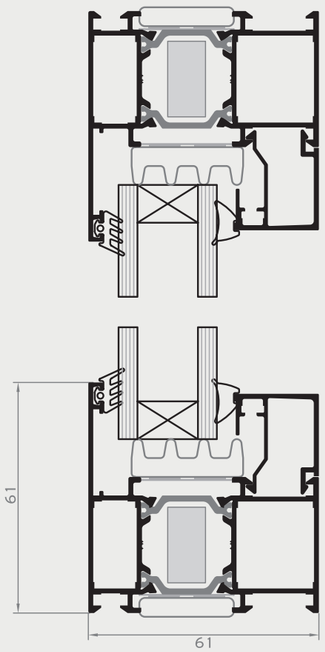
Designed to support larger and heavier doors, they are built to withstand frequent use and resist wear over time. Available in double and triple editions able to withstand up to 150 kg/sash.

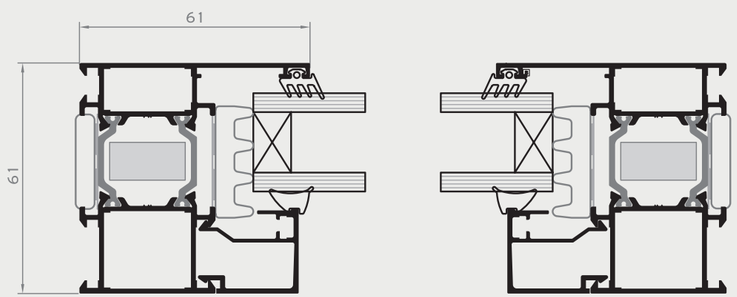
Antiburglary fittings and 3D adjustments contribute to system's longevity and credibility.

IMPROVED AESTHETICS BY USING CONCEALED HINGES, PROVIDING A CLEAN, MODERN LOOK WITHOUT VISIBLE HARDWARE DISRUPTING THE DESIGN.

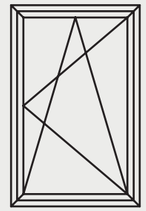
FIXED

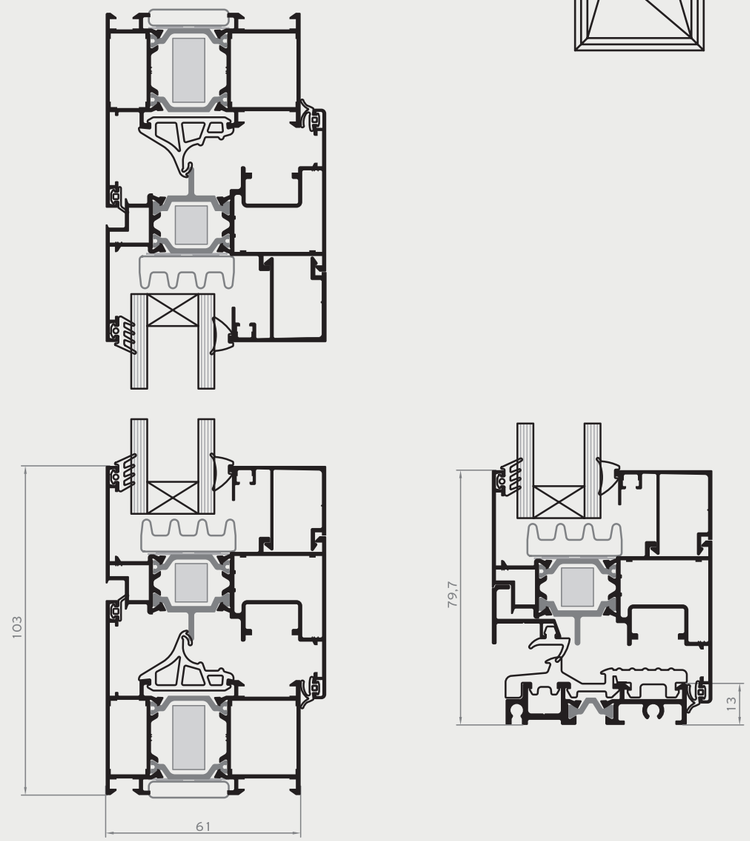


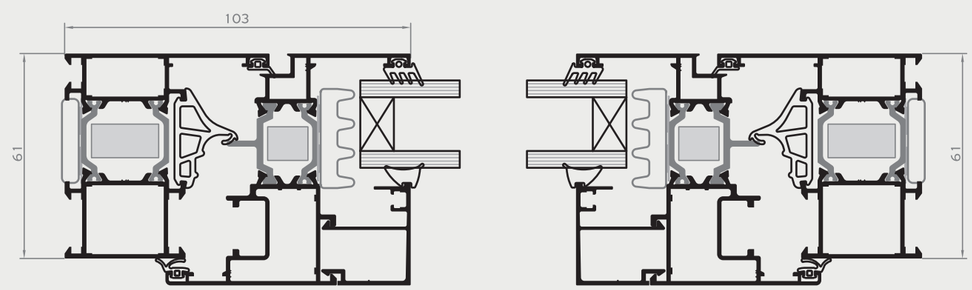




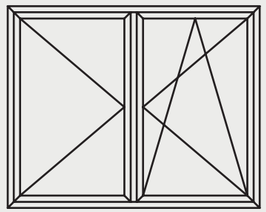
1-SASH

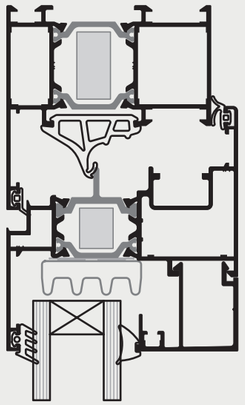


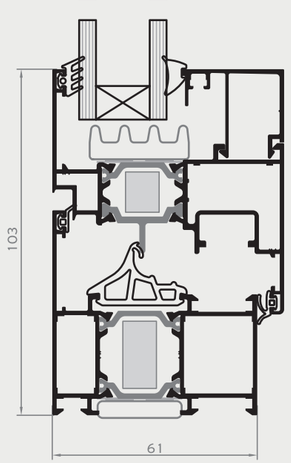


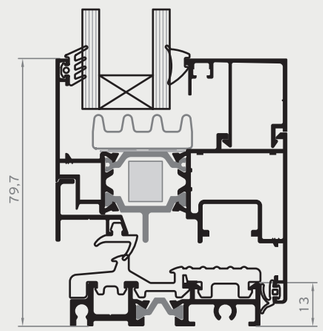


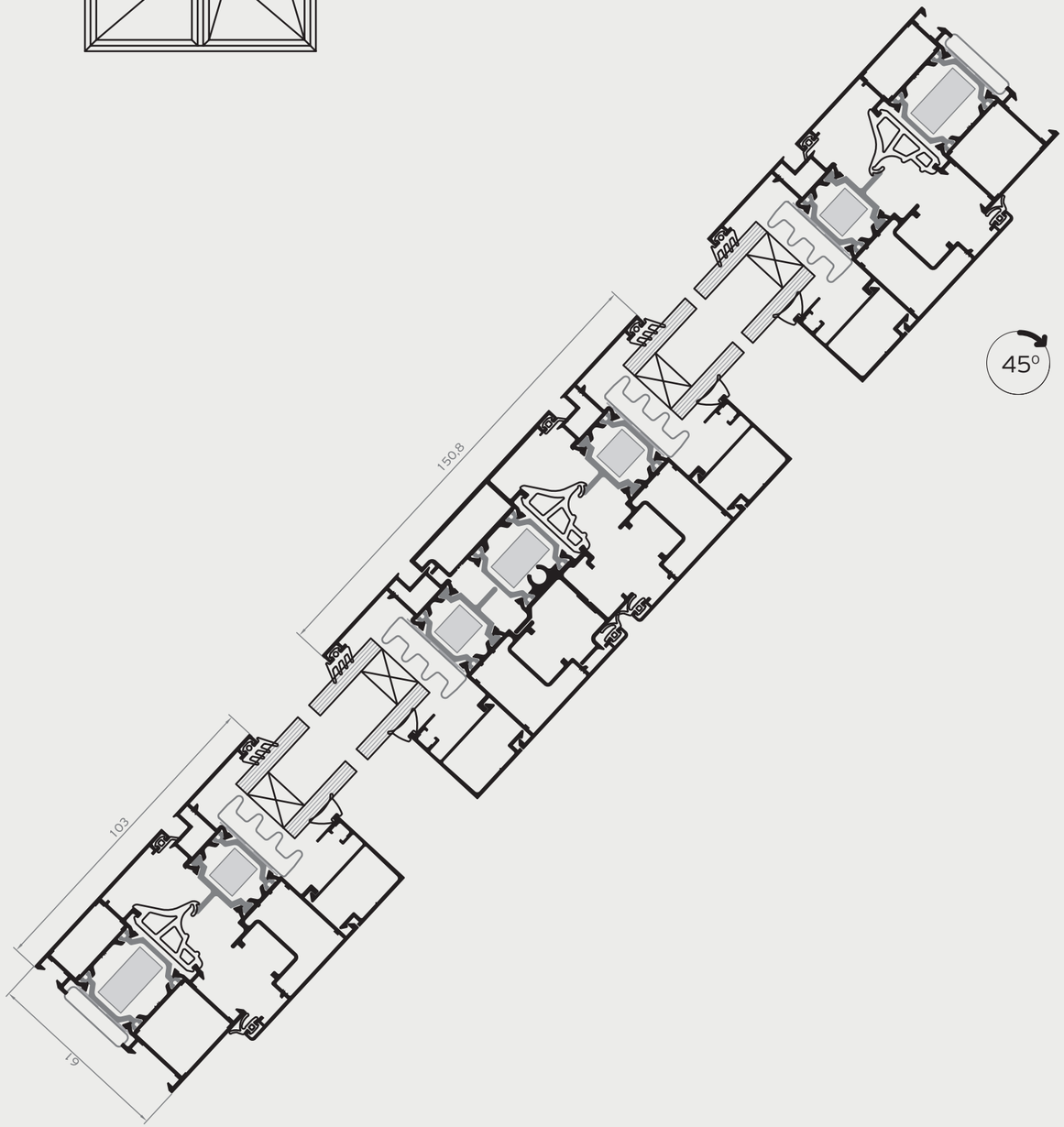
2-SASH



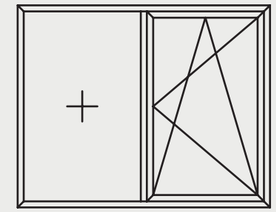


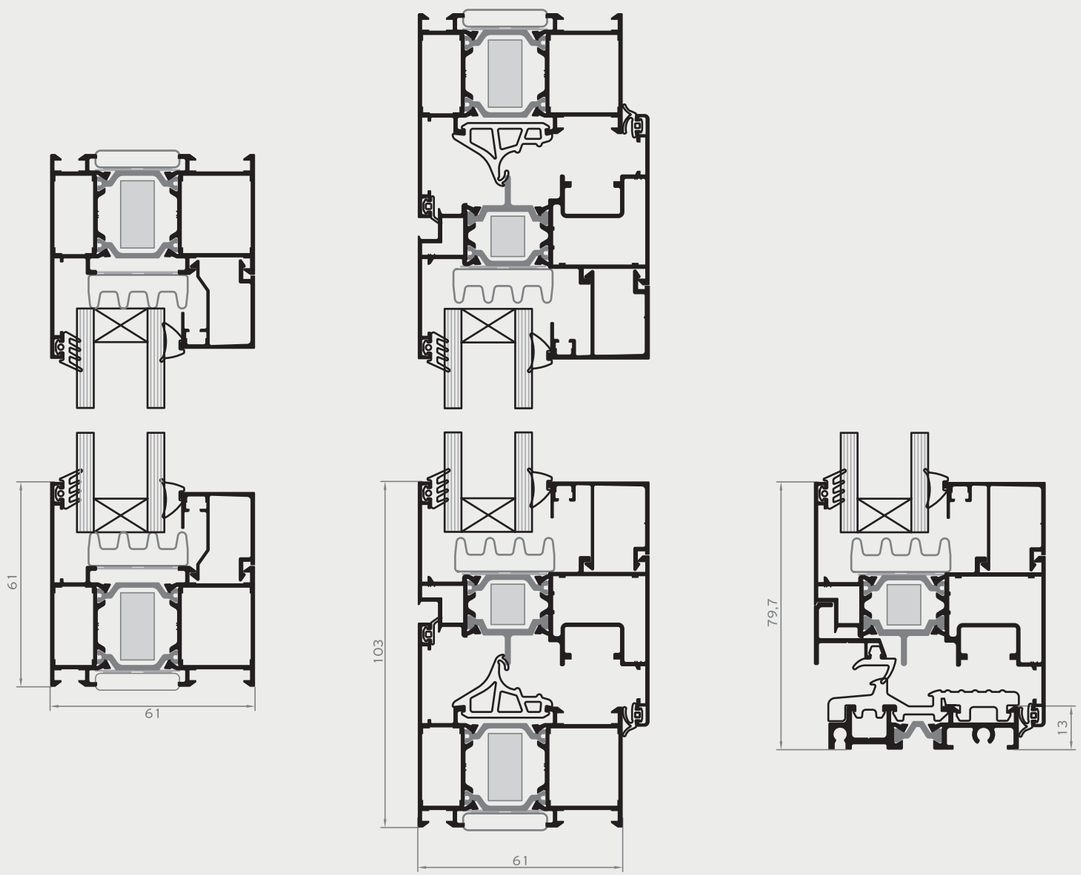


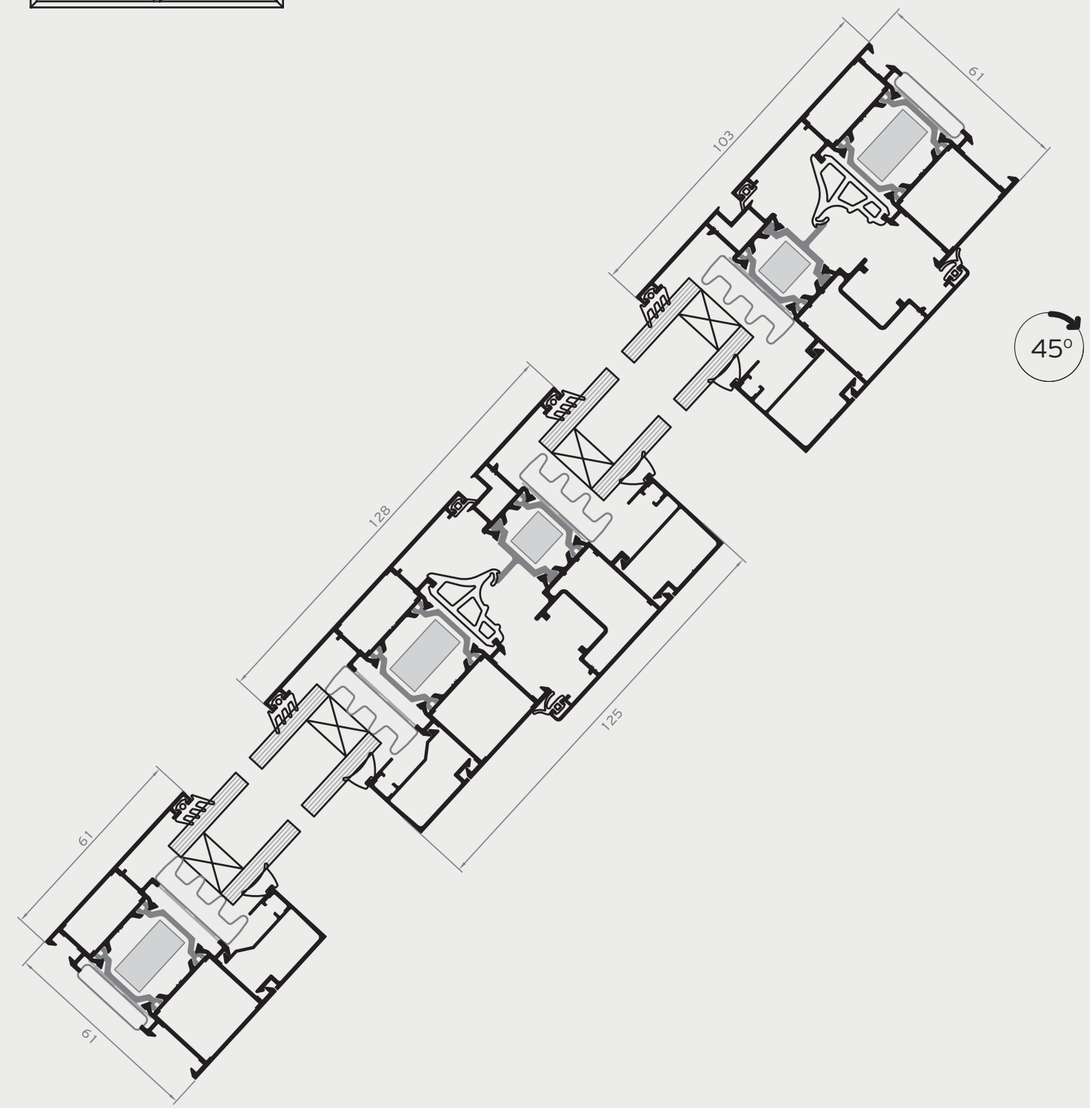




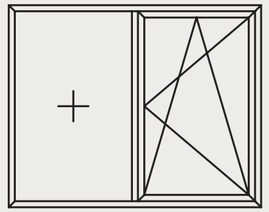
1-SASH WITH FIXED

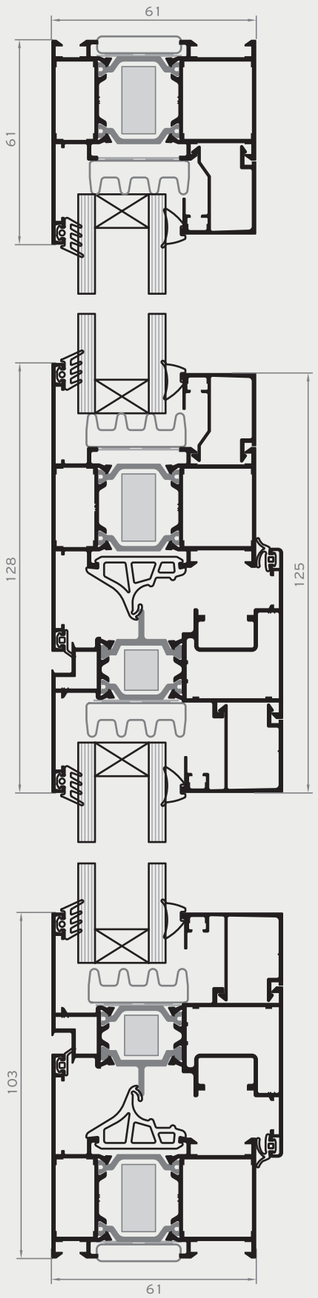


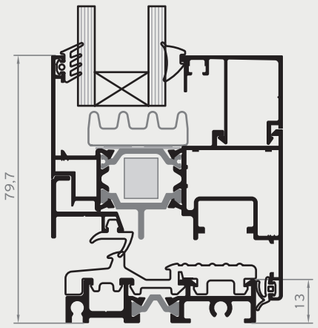


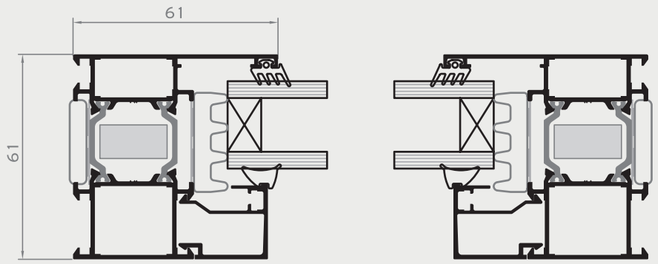


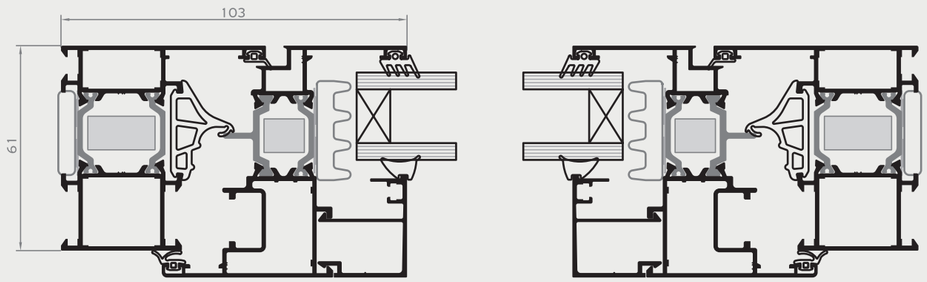
1-SASH WITH FIXED LIGHT



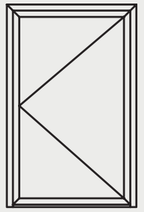


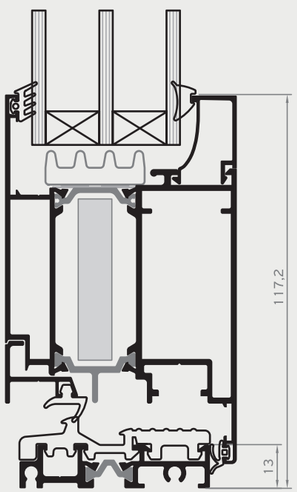


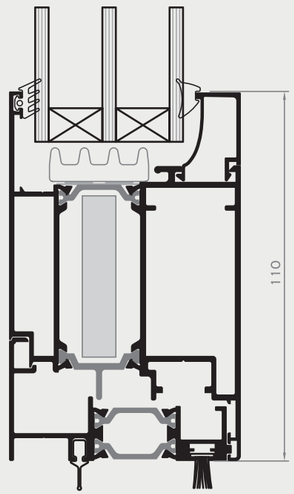


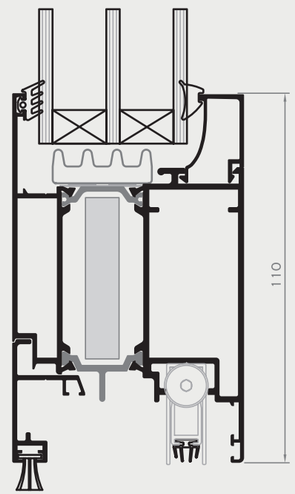


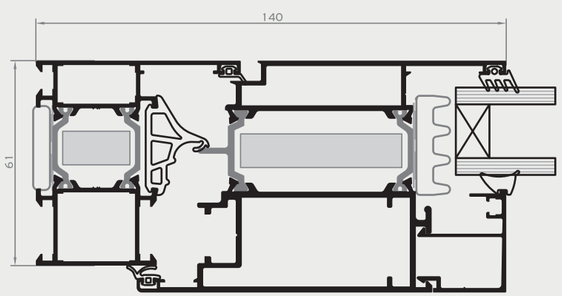
1-SASH DOOR
INWARDS

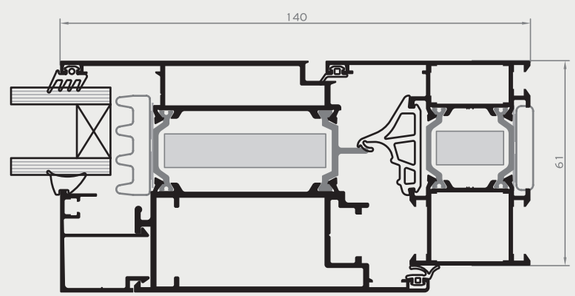




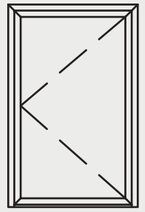


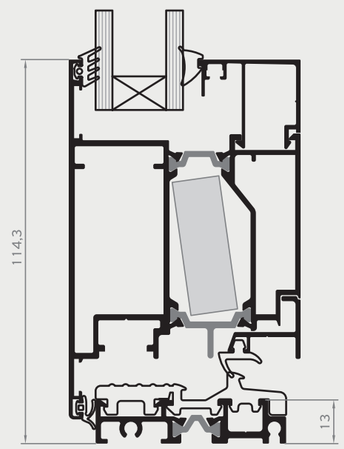


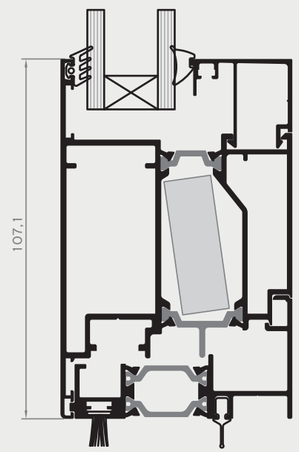


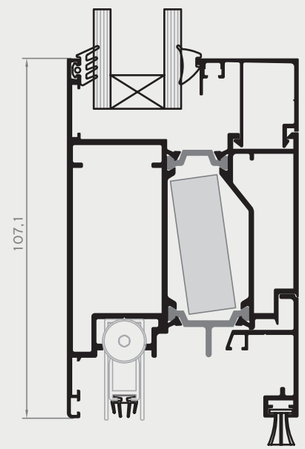


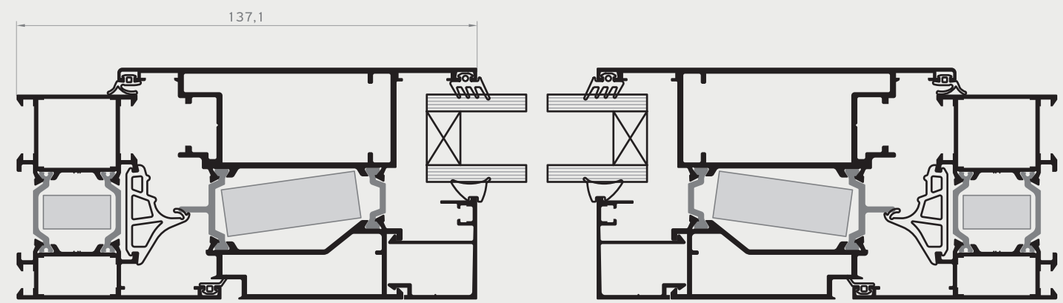
1-SASH DOOR
OUTWARDS











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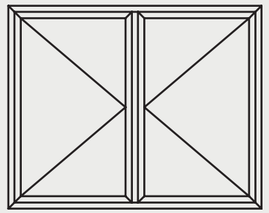

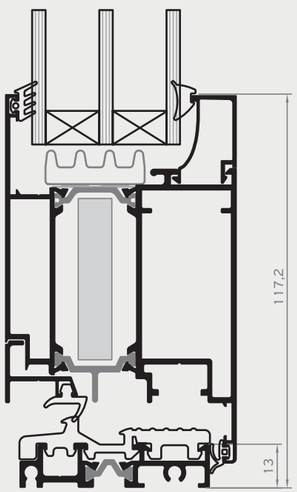

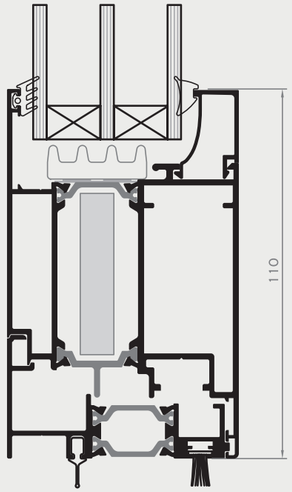

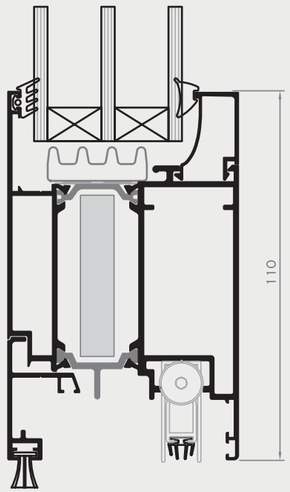

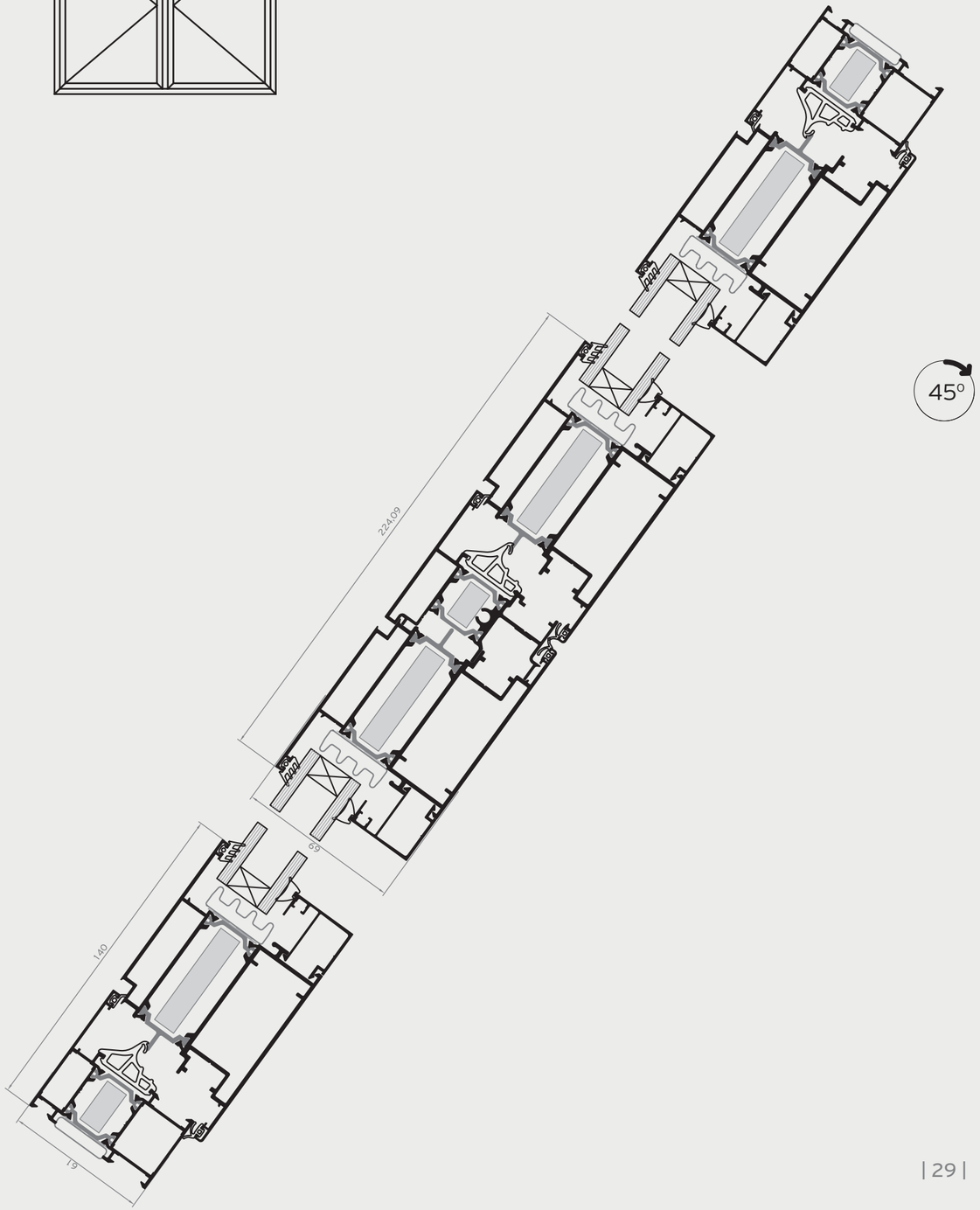

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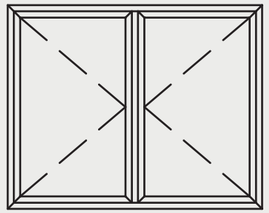
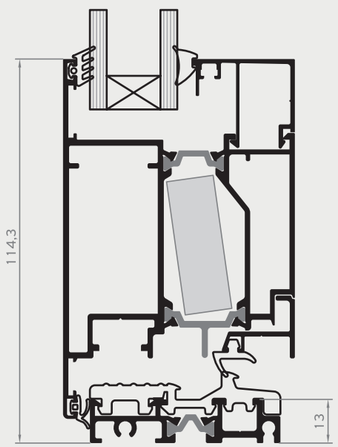
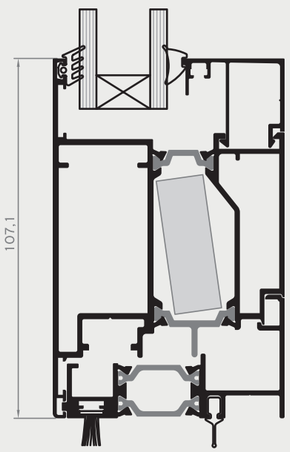
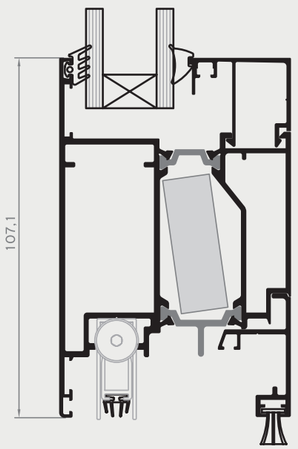
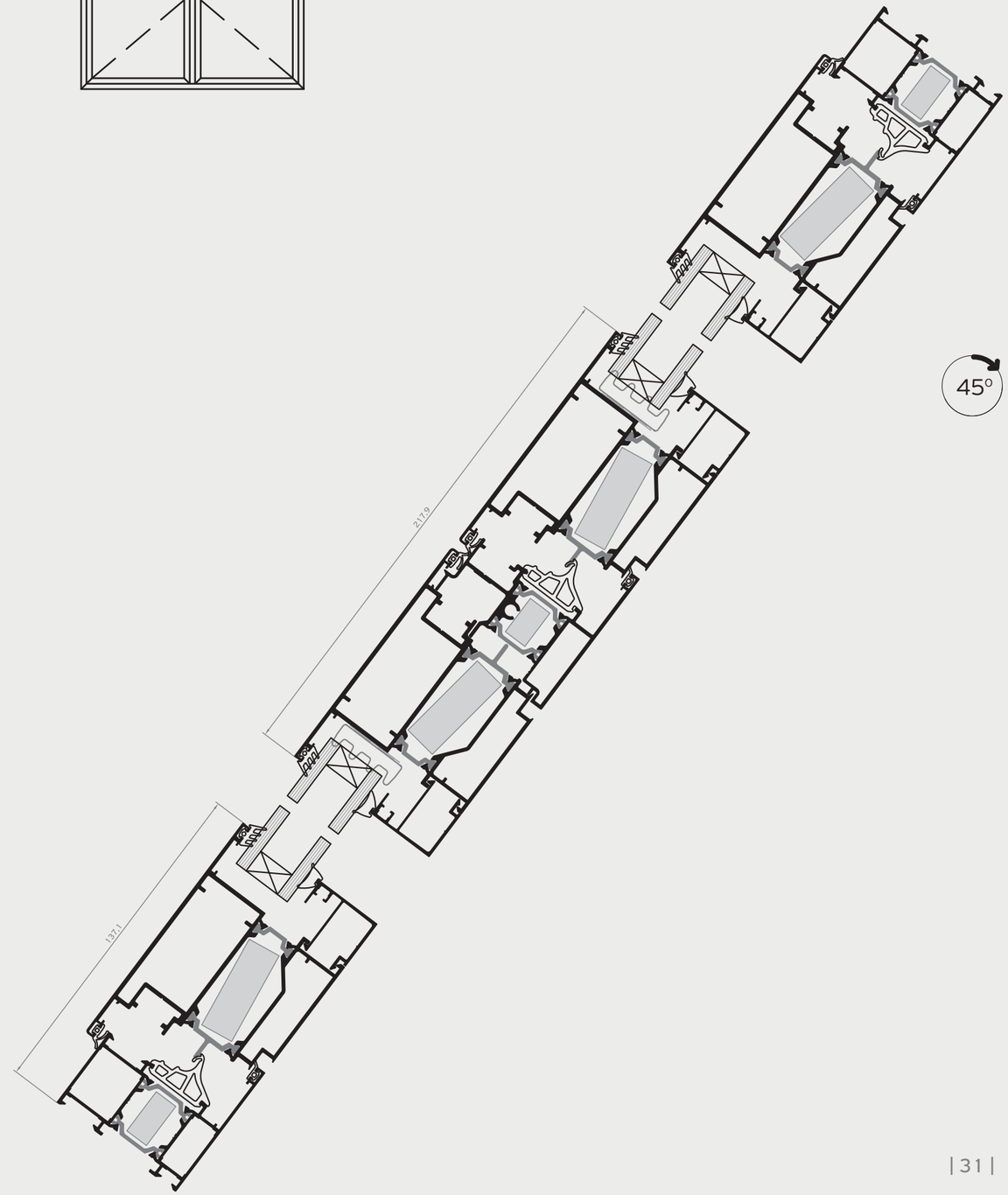






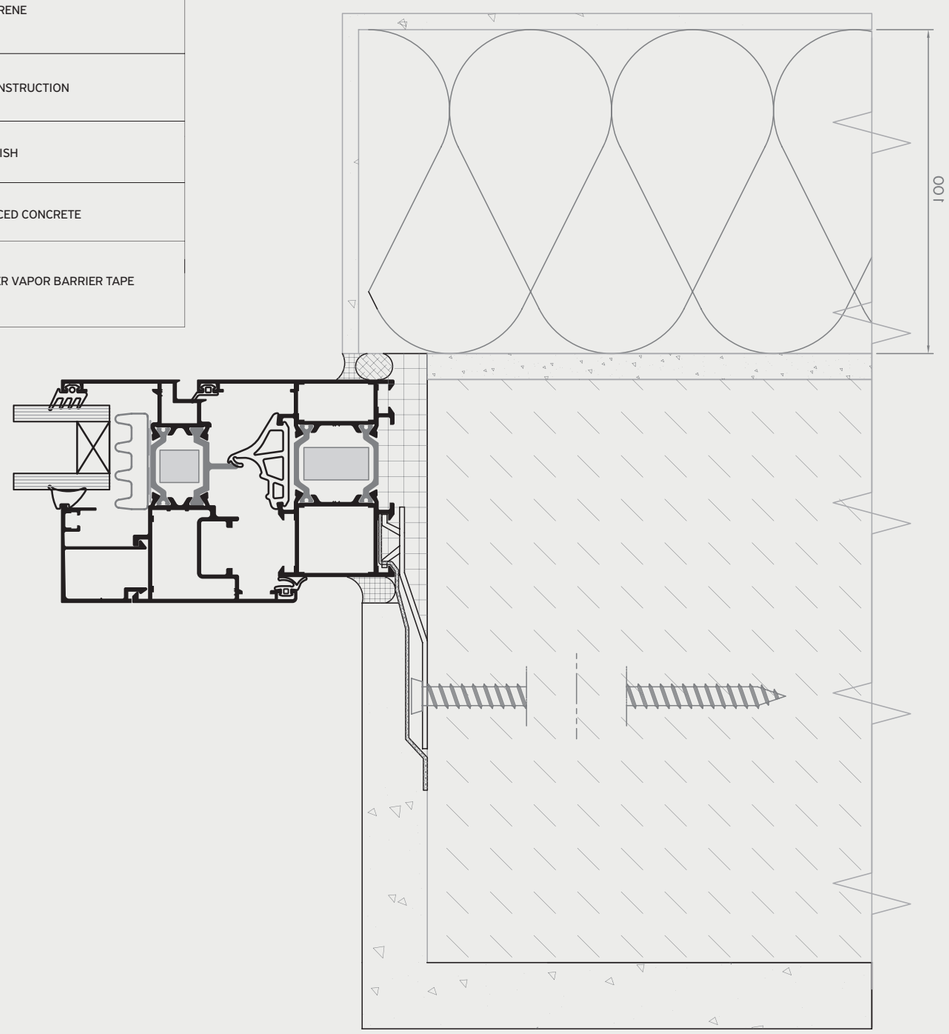




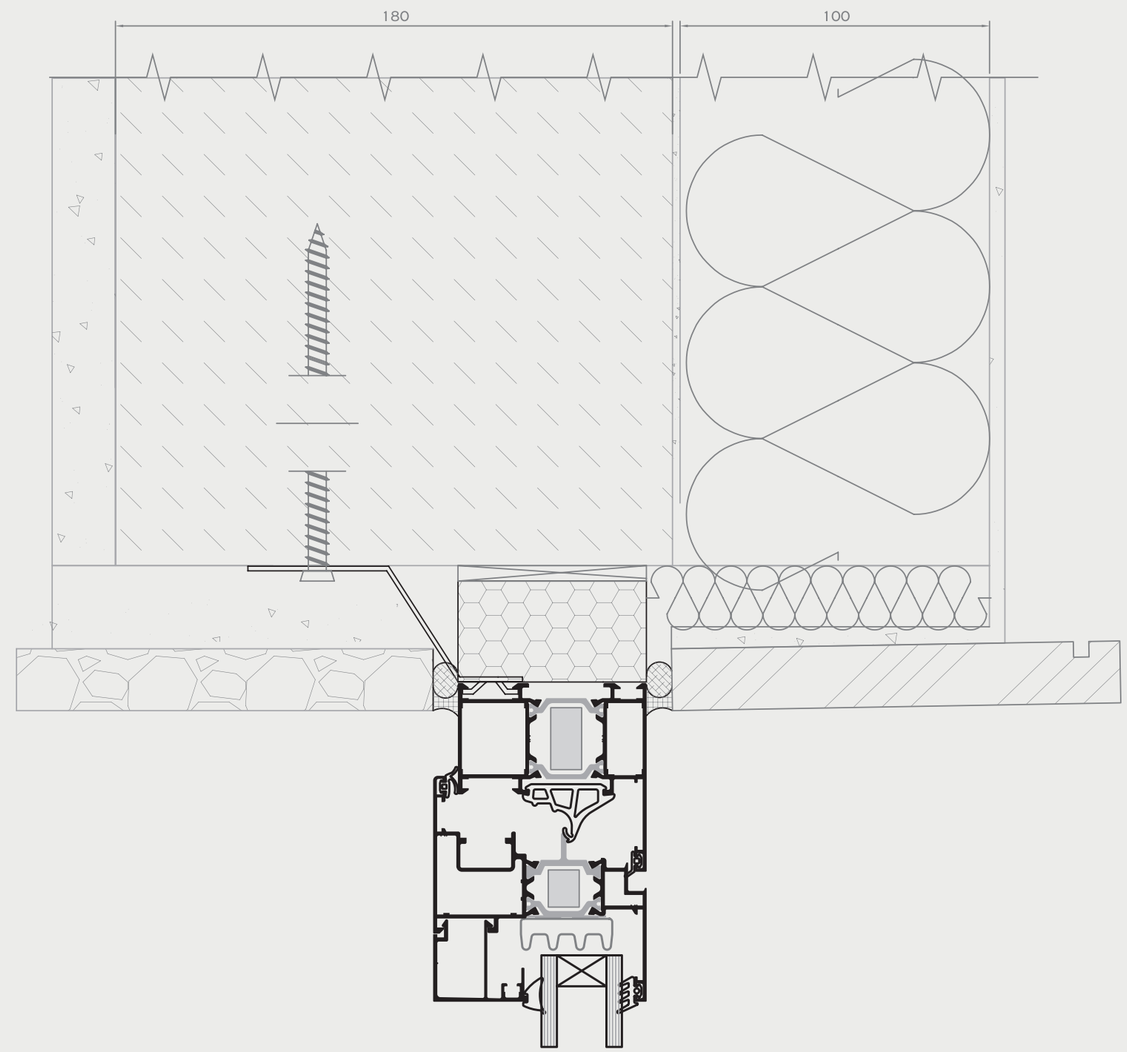
INSTALLATION

	PRECOMPRESSED MULTI-FUNCTION SEALING TAPE
	BACKER ROD
	HYBRID SEALANT OR NEUTRAL SILICONE
	STYRODUR HIGH DENSITY BOARD
	MARBLE
	POLYURETHANE FOAM
	POLYSTYRENE
	WALL CONSTRUCTION
	WALL FINISH
	REINFORCED CONCRETE
	AIR WATER VAPOR BARRIER TAPE

SIDE SECTION

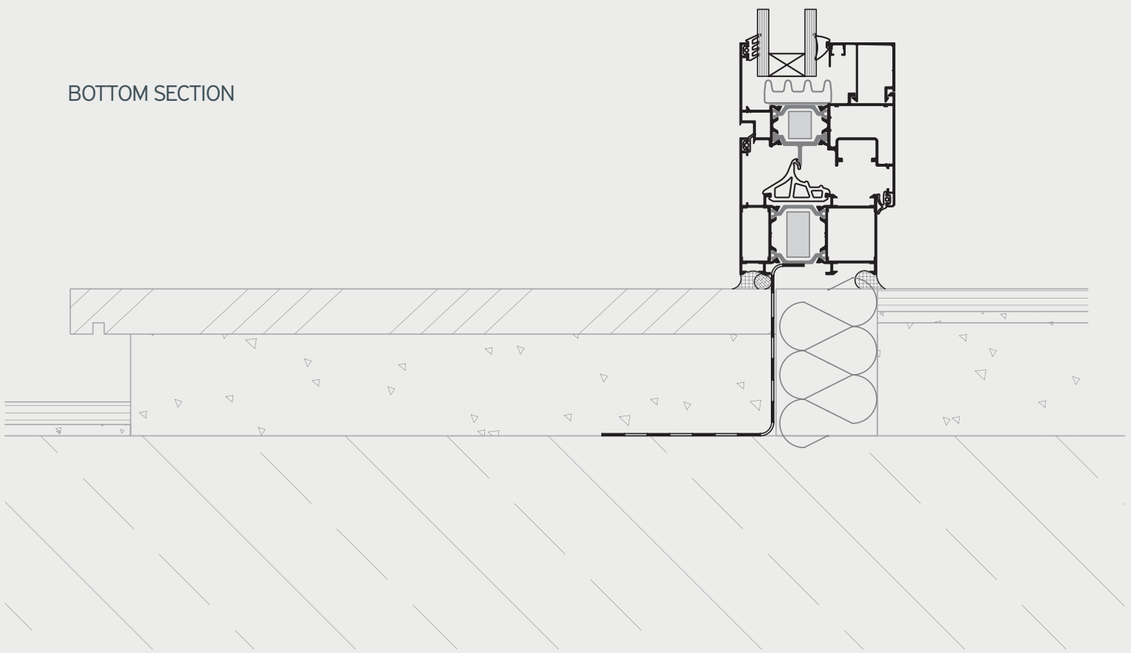


TOP SECTION

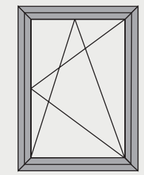


INSTALLATION

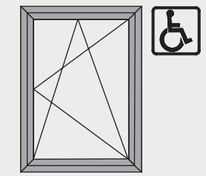
BOTTOM SECTION



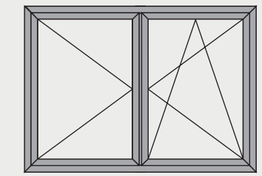
APPLICATIONS



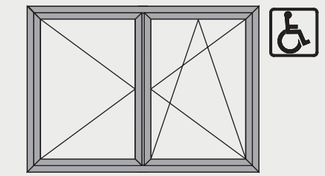
SINGLE TILT & TURN CASEMENT



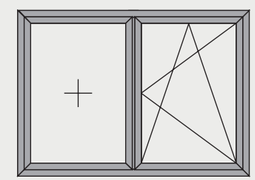
SINGLE TILT & TURN CASEMENT WITH P.W.D. FRAME



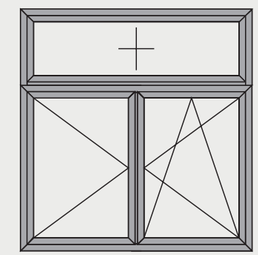
SINGLE TILT & TURN WITH SIDE-HUNG CASEMENT



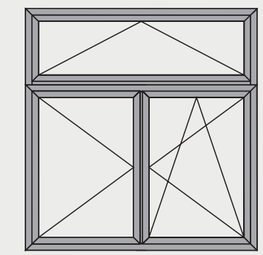
SINGLE TILT & TURN WITH SIDE-HUNG CASEMENT WITH P.W.D. FRAME



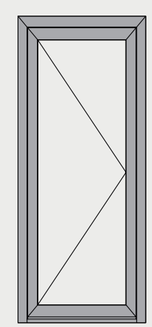
SINGLE TILT & TURN WITH FIXED LIGHT



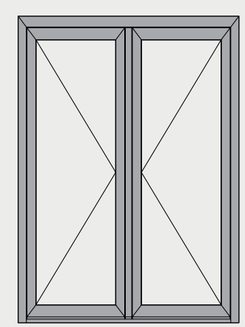
SINGLE TILT & TURN WITH SIDE-HUNG CASEMENT AND FANLIGHT



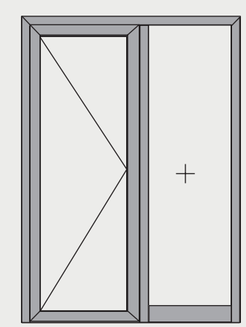
SINGLE TILT & TURN WITH SIDE-HUNG AND BOTTOM HUNG CASEMENT



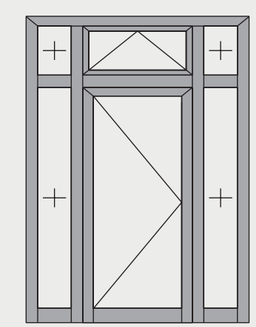
SINGLE LEAF DOOR



DOUBLE LEAF DOOR



SINGLE LEAF DOOR WITH FIXED LIGHT



SINGLE LEAF DOOR WITH FANLIGHT AND FIXED LIGHTS

TABLE OF PERFORMANCE

Alumil

DISCOVER MORE:

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 (≤ l/150)				B (≤ l/200)		C (≤ l/300)		

THERMAL PERFORMANCE	DIMENSIONS IN MM (W x H)	U_w in W/m²K (U_g = 1)	U_w in W/m²K (U_g = 0,7)
1 SASH / STANDARD	900 x 2200	1,69	1,27
1 SASH / ADVANCED	900 x 2200	1,63	1,21
1 SASH / HI	900 x 2200	1,54	1,12
2 SASHES / STANDARD	1500 x 2200	1,74	1,29
2 SASHES / ADVANCED	1500 x 2200	1,67	1,21
2 SASHES / HI	1500 x 2200	1,59	1,15

SEASIDE CLASS

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