

TIMELESS ELEGANCE IN

Aluminum Doors & Windows

PRODUCT CATALOGUE 2025

Founded in 1989, Sagar Asia stands as one of India's premier aluminium manufacturers, with its first extrusion and anodising plant located in the then-unified region of Andhra Pradesh and Telangana. Now headquartered in Hyderabad, Sagar Asia leads the global aluminium manufacturing sector, distinguished by over three decades of pioneering expertise.

With over 500,000 square feet of state-of-the-art facilities, the company is dedicated to delivering advanced, high-precision aluminium solutions that embody unparalleled quality, resilience, and sophisticated design. Sagar Asia's extensive portfolio of precision-engineered aluminium extrusions, system windows, and industry-leading access solutions supports a diverse array of industries worldwide.



ALUMINIUM WINDOWS & DOORS (CASEMENT SERIES)

Aluminum doors and windows are a popular choice for modern homes and commercial spaces due to their durability, sleek design, and versatility.

DURABILITY

Aluminum frames are resistant to rust, corrosion, and weathering, ensuring long-lasting performance for both doors and windows.

SLEEK DESIGN

Slim frames provide a modern and elegant look, maximizing glass area for better natural light and views.

ENERGY EFFICIENCY

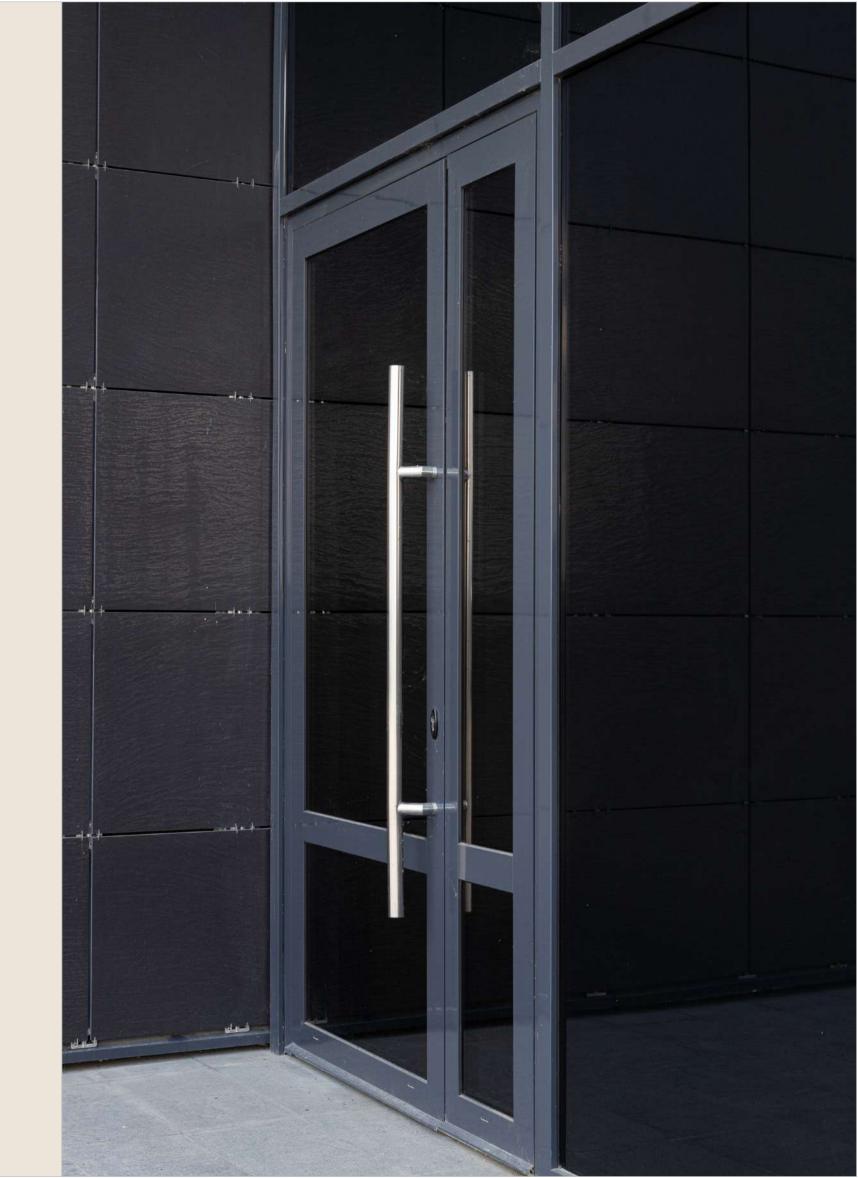
When paired with proper glazing, aluminum doors and windows offer excellent thermal and sound insulation, keeping spaces comfortable and reducing energy bills.

LOW MAINTENANCE

They are easy to clean and maintain, with no risk of warping, cracking, or fading over time.

TYPES OF CASEMENT DOORS AND WINDOWS

- SA 40
- SA 50
- REYNAERS ECOSYSTEMS 45
- REYNAERS ECOSYSTEMS 50



SYSTEM TYPOLOGY

Double rabbet - custom groove

PROFILES EXTRUDED ALLOY

EN AW 6060 (EN 573-3 EN 755-2)

STATE SUPPLY

T5 according to UNI EN 515

DIMENSIONAL TOLERANCES & THICKNESS

UNI EN 12020-2

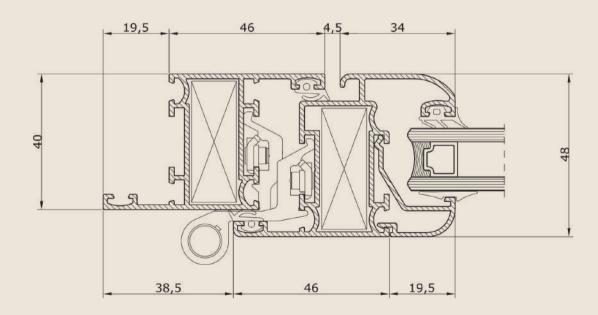
SEAL TYPE AIR-WATER

Water/air tightness typology:

Rebated solution: Double rabbet joint
Dimensions base system window series:
Fix frame: 40mm deep - line overlapping —
Mobile frame (sash): depth 48mm - line coplanar

USE

The system allows the construction of windows, doors or windows of two, three or more ante a flying in the open joint or double seal bar. Mirror can also be fixed, with windows opening to the outside, flap, front flips, trucks and a mono block doors.



SA 40

OPEN JOINT

SYSTEM TYPOLOGY

Open joint - custom groove

PROFILES EXTRUDED ALLOY

EN AW 6060 (EN 573-3 EN 755-2)

STATE SUPPLY

T5 according to UNI EN 515

DIMENSIONAL TOLERANCES & THICKNESS

UNI EN 12020-2

SEAL TYPE AIR-WATER

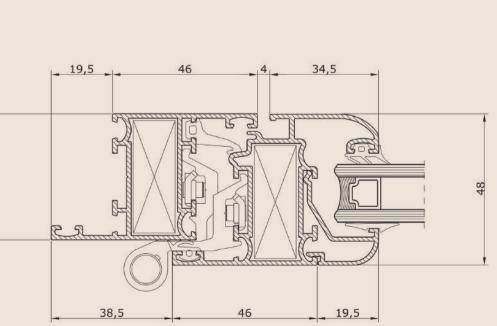
Rebated solution: Central gasket and gasket with acoustic insulation on the internal rabbet

DIMENSIONS BASE SYSTEM WINDOW SERIES

Fix frame : 40 mm deep - line overlapping — Mobile frame (sash) : depth 48 mm - line coplanar

USE

The system allows the construction of windows, doors or windows of two, three or more ante a flying in the open joint or double seal bar. Mirror can also be fixed, with windows opening to the outside, flap, front flips, trucks and a mono block doors.





SHUTTERS

SYSTEM TYPOLOGY

Double rabbet - custom groove

PROFILES EXTRUDED ALLOY

EN AW 6060 (EN 573-3 EN 755-2)

STATE SUPPLY

T5 according to UNI EN 515

DIMENSIONAL TOLERANCES & THICKNESS

UNI EN 12020-2

WATER/AIR TIGHTNESS TYPOLOGY

Rebated solution : double rabbet gasket

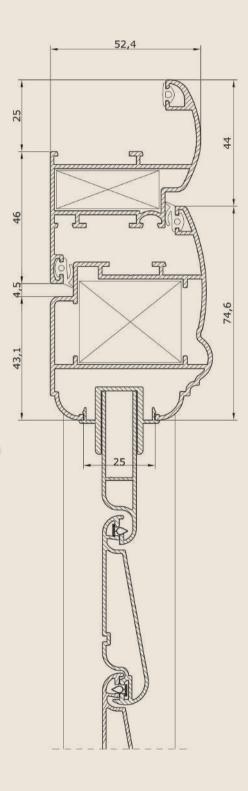
DIMENSIONS BASE SYSTEM WINDOW SERIES

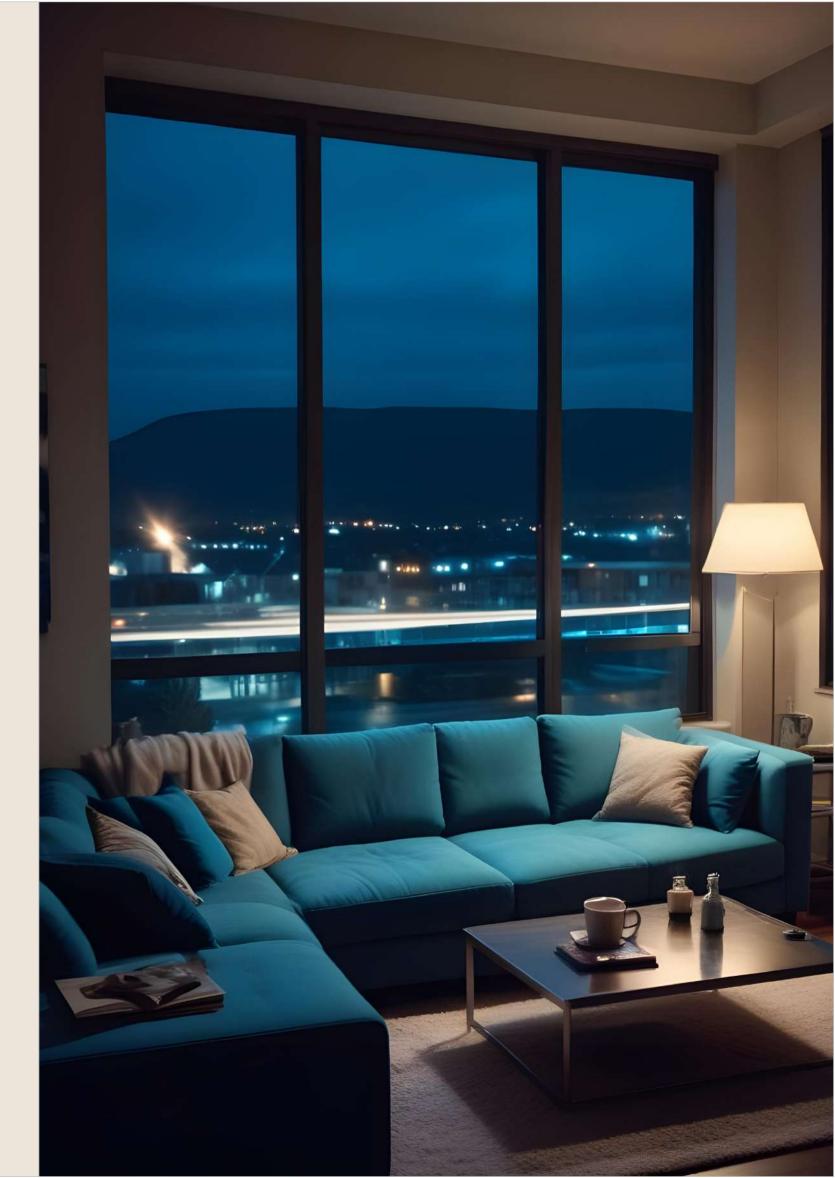
Frame : 40 mm deep - line overlapping Sash depth : 48 mm - line coplanar

Space for the insert of mechanisms of 25 mm

Space for the insert of mechanisms of 36 mm







SYSTEM TYPOLOGY

Open joint European groove

PROFILES EXTRUDED ALLOY

EN AW 6060 (EN 573-3 EN 755-2)

STATE SUPPLY

T5 according to UNI EN 515

DIMENSIONAL TOLERANCES & THICKNESS

UNI EN 12020-2

SEAL TYPE AIR-WATER

Rebated solution: Central gasket and gasket with acoustic insulation on the internal rabbet

DIMENSIONS BASE SYSTEM

Frame: height 45 mm - flat line and overlapping Sash depth 52 mm Overlapping of the profiles - internal and external

rebated solution 8 mm

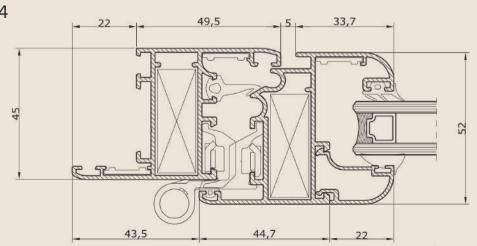
USE

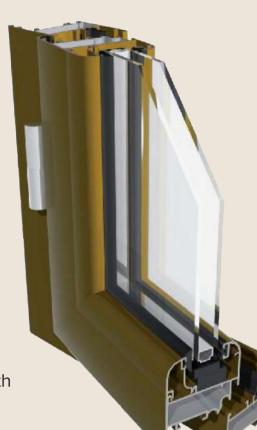
The system allows the construction of windows, doors or windows of two, three or more ante a flying in the open joint or double seal bar. Mirror can also be fixed, with windows opening to the outside, flap, front flips, trucks and a mono block doors.

CERTIFICATIONS

Testing conducted by ISTITUTO GIORDANO on 17/05/2010 with test report No. 269487;

Air permeability : Class 4
Water tightness : E750
Wind resistance : C5





SA 50

DOOR SERIES

SYSTEM TYPOLOGY

Double rabbet - custom groove

PROFILES EXTRUDED ALLOY

EN AW 6060 (EN 573-3 EN 755-2)

STATE SUPPLY

T5 according to UNI EN 515

DIMENSIONAL TOLERANCES & THICKNESS

UNI EN 12020-2

SEAL TYPE AIR-WATER

Double gasket rabbet

DIMENSIONS BASE SYSTEM

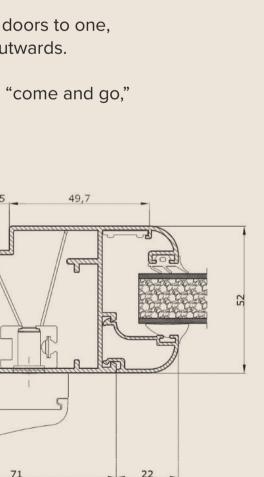
Frame : height 45 mm - flat line and overlapping Sash depth 52 mm - line coplanar

USE

These profiles allow the construction of doors to one, two or more doors that open inwards, outwards.

Lights above with fixed or opening.

Is possible to make windows with doors "come and go," and automatic doors.





SHUTTERS

SYSTEM TYPOLOGY

Double rabbet - custom groove

PROFILES EXTRUDED ALLOY

EN AW 6060 (EN 573-3 EN 755-2)

STATE SUPPLY

T5 according to UNI EN 515

DIMENSIONAL TOLERANCES & THICKNESS

UNI EN 12020-2

WATER/AIR TIGHTNESS TYPOLOGY

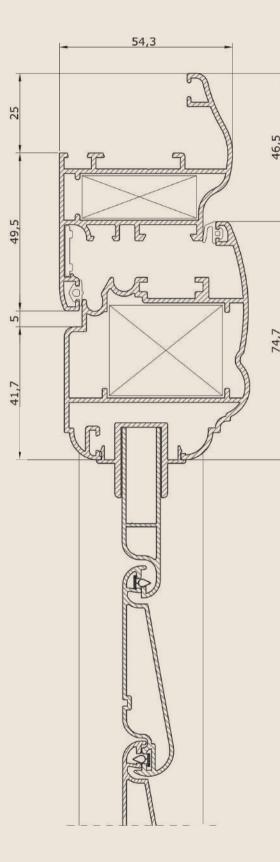
Rebated solution : double rabbet gasket

DIMENSIONS BASE SYSTEM WINDOW SERIES

Frame : 45 mm deep - line overlapping Sash depth : 52 mm - line coplanar

Space for the insert of mechanisms of 25 mm







REYNAERS ECOSYSTEM 45

The ES 45Pa is a inward and outward opening system designed according to European standards offering superior quality. Because of 3 layers of gaskets the performance is guaranteed in every situation.

- Small range of profiles for a wide variety of solutions
- Flexible choice of Reynaers accessories
- Compatible with Reynaers' Sliding and Curtain Wall systems



TECHNICAL CHARACTERISTICS

Min. visible width inward opening	Frame 47 mm Vent 30 mm
Min. visible width outward opening	Frame 25 mm Vent 74 mm
Min. visible width T-profile	69 mm
Overall system depth	Frame 45 mm Vent 54 mm
Rebate height	22 mm
Glass thickness	Frame 4 mm - 33 mm Vent 4 mm - 42 mm
Glazing method	Dry glazing with EPDM or neutral silicones

PERFORMANCES

COMFORT							
Air tightness, max. test pressure (1) EN 1026; EN 12207		1 (150 Pa	2 a) (300 Pa	3 a) (600 Pa)	4 (600 Pa)		
Water tightness (2) EN 1027; EN 12208		3A 4A O Pa)(150 Pa)(5A 6A (200 Pa)(250	. 7A { Pa)(300 Pa)(45	8A 9A 0 Pa)(600 Pa)		900 00 Pa)
Wind load resistance, max. test pressure (3) EN 12211; EN 12210	(4	•	2 3 O Pa) (1200 I	4 Pa) (1600 Pa)	5 (2000 Pa)(>	E2400 > 2400 Pa)
Wind load resistance to frame deflection (3) EN 12211; EN 12210			A (≤ 1/150) (≤	B : 1/200) (≤ 1.	C /300)		

This table shows possible classes and values of performances, which can be achieved for specific configurations and opening types.

- (1) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.
- (2) The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.
- (3) The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force. There are up to five levels of wind resistance (1 to 5) and three deflection classes (A,B,C). The higher the number, the better the performance.

REYNAERS ECOSYSTEM 50

Simply smart

EcoSystem 50 is a quality system for windows and doors that combines aesthetic design and energy efficiency. Thanks to the optional, cleverly hidden hinges and a minimal built-in depth, this aluminium solution sports a minimalistic look.

- Well-balanced price-quality-feature mix
- Minimal build-in depth for insulated system
- Reduces visible height for fixed window and opening windows

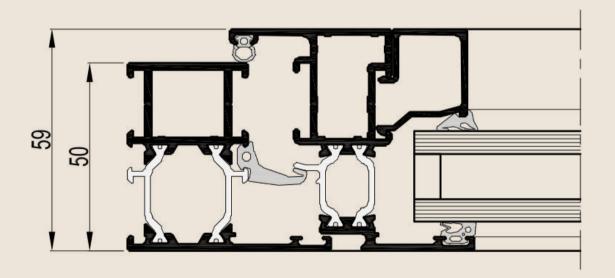


PROPERTIES

Min. visible width inward opening window	Frame 48 mm Vent 30 mm
Min. visible width inward opening flush door	Frame 67 mm Vent 74 mm
Min. visible width T-profile	69 mm
Overall system depth window	Frame 50 mm Vent 59 mm
Max vent height	2200 mm
Rebate height	22 mm
Glass thickness	up to 32 mm

PERFORMANCE

Thermal insulation (Uf)	Down to 2.3 W/m2K
Acoustic performance (Rw ©; Ctr)	35 (-1; -4) dB / 40 (-2; -4) dB
Air tightness	Up to 600 Pa (class 4)
Wind load resistance	Up to 1600 Pa (class 4)
Water tightness	Up to 600 Pa (class 9A)
Burglar resistance	Up to RC 2 (EN 1627) + PAS 24



ALUMINIUM WINDOWS & DOORS (SLIDING SERIES)

Aluminum doors and windows are a popular choice for modern homes and commercial spaces due to their durability, sleek design, and versatility.

SPACE-SAVING DESIGN

Sliding doors and windows operate on tracks, eliminating the need for extra space for opening or closing.

SLEEK & MODERN LOOK

Slim aluminum frames enhance the glass area, offering a stylish and contemporary appearance.

ENHANCED NATURAL LIGHT

Large glass panels allow maximum sunlight, creating brighter and more inviting interiors.

DURABILITY

Large glass panels allow maximum sunlight, creating brighter and more inviting interiors.

TYPES OF SLIDING DOORS AND WINDOWS

- SA 27 & 27 SLIM-INTERLOCK
- SA 29
- SA 42
- REYNAERS CONCEPTPATIO 45 PA (CP45 PA)
- REYNAERS CONCEPTPATIO 68 PA (CP68 PA)
- REYNAERS CONCEPTPATIO 130 (LIFT & SLIDE)
- REYNAERS CONCEPTFOLDING 77 (SLIDING/FOLDING)
- HIFINITY (MOTORISED)



SA 27 & 27 SLIM-INTERLOCK

SYSTEM TYPOLOGY

Sliding system with two or more sashes without glazing bead

PROFILES EXTRUDED ALLOY

EN AW 6060 (EN 573-3 EN 755-2)

STATE SUPPLY

T5 according to UNI EN 515

DIMENSIONAL TOLERANCES & THICKNESS

UNI EN 12020-2

SEAL TYPE AIR-WATER

Double brush gasket

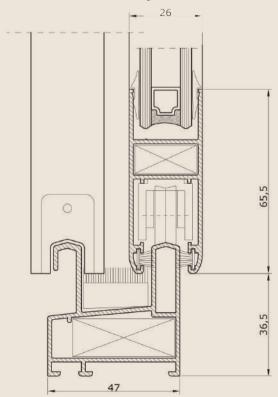
DIMENSIONS BASE SYSTEM WINDOW SERIES

Frame depth 47mm Sash depth 26mm

Overlap between frame and shutter 13mm

APPLICATION

This system of profiles allows the construction of windows and sliding balcony windows with one, two, three, four or six sliding panels that can be perfectly integrated with casement systems





SA 29

Casement Aluminium System for windows and doors

SEALING OVERLAP

6mm

SEALING

By double gaskets

LATCHING

Single or multipoint

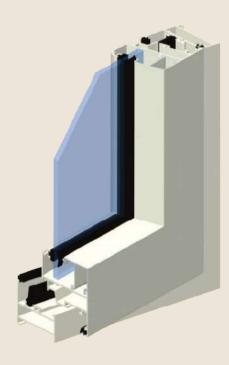
GLASS CHOICE

From 5 to 24mm

MAX SILL DEPTH REQUIRED

50mm (50mm system depth)

Tilt & turn possible



SYSTEM TYPOLOGY

Sliding system with two or more sashes with or without glazing bead

PROFILES EXTRUDED ALLOY

EN AW 6060 (EN 573-3 EN 755-2)

STATE SUPPLY

T5 according to UNI EN 515

DIMENSIONAL TOLERANCES & THICKNESS

UNI EN 12020-2

SEAL TYPE AIR-WATER

Double brush gasket

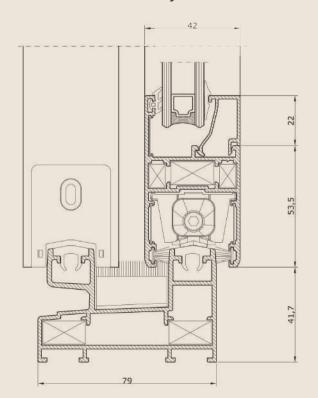
SYSTEM'S DIMENSIONS

Frame depth 78.5mm
Frame with condensation collector depth 98.5mm
Sash depth 42mm

Overlap between frame and sash 13mm

APPLICATION

This system of profiles allows the construction of windows and sliding balcony windows with two, three, four or six sliding panels that can be perfectly integrated with casement systems

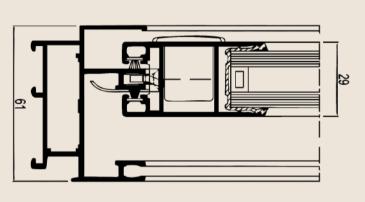




REYNAERS CONCEPTPATIO 45 PA (CP45 PA)

The CP 45Pa is a non-insulated sliding system that has been designed to respond to new aesthetical demands. The system is available in functional and softline design. The profile width is reduced to a minimum allowing a maximum of light into the building. CP 45Pa integrates the latest techniques, offering a very competitive solution.



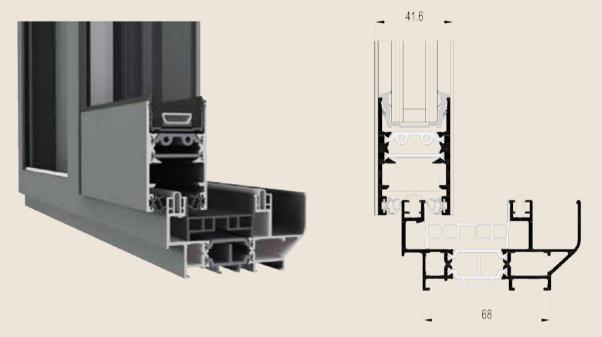


Style variants		MONORAIL	2-RAIL	3-RAIL	4-RAIL	
	Frame	45 mm / 54 mm	17 mm / 45 mm	17 mm / 45 mm	17 mm / 45 mm	
	Horizontal vent	56 mm	56 mm	56 mm	56 mm	
Visible width / height	Vertical vent	54.5 mm / 67 mm	54.5 mm / 67 mm	54.5 mm / 67 mm	54.5 mm / 67 mm	
	T-profile	70 mm	70 mm	70 mm	70 mm	
Meeting section		40 mm	40 mm	40 mm	40 mm	
O	Frame	48 mm / 56 mm	50 mm / 61 mm	86 mm / 97 mm	122 mm / 133 mm	
Overall system depth	Vent	29 mm	29 mm	29 mm	29 mm	
Rebate height		18 mm / 20 mm	18 mm	18 mm	18 mm	
Glass thickness		6-24 mm	6-24 mm	6-24 mm	6-24 mm	
Glazing method		with EPDM in accordance with the envelope principle				

PERF	ORMANCES														
	COMFORT														
	Air tightness, max. test pressure (1) EN 1026; EN 12207	1 (150 Pa)		2 (300 Pa)			3 (300 Pa)				4 (600 Pa)				
	Water tightness ⁽²⁾ EN 1027; EN 12208	1A (0 Pa)	2A (50 P	75 (c)		4A (150 Pa)		5 A 00 Pa)	6A (250 Pa)	7 A (300 F		8 A (450 Pa)		A Pa)	Exxx (>600Pa)
	Water tightness ⁽²⁾ shielded EN 1027; EN 12208	1B (0 Pa)			31 - 3	3B (100 Pa)	3.75.5000		B 5B (200 Pa)		1)	6B (250 Pa			7B (300 Pa)
	Wind load resistance, max. test pressure (3) EN 12211; EN 12210	and the second second		2 10 Pa)			4 (1600 Pa)		(20	5 (2000 Pa)		Exxx (> 2000 Pa)			
	Wind load resistance to frame deflection (3) EN 12211; EN 12210	A (≤1/150)					B (±1/200)				C (s 1/300)				
	Acoustic performance ⁽⁴⁾ EN ISO 140-3; EN ISO 717-1		Rw (C; Ctr) = 29 (-1; -3) dB / 30 (-1; -3) dB, depending on glazing type												

REYNAERS CONCEPTPATIO 68 PA (CP68 PA)

Concept Patio® 68 is a well insulated sliding system that combines elegance with performance and security. This unique sliding system is characterised by its slim profiles, allowing the integration of large windows and doors for maximum views, in combination with burglary resistance class RC2. The integrated innovative technologies guarantee ultimate performances with regard to wind and water tightness and thermal insulation, meeting with the highest standards. The sliding system CP 68 offers you all design freedom to create contemporary living spaces, combining ultimate brightness with maximum comfort and security.



FLEXIBILITY ABOVE ALL

This sliding system offers a wide range of opening possibilities, from elements which slide in a hidden wall cavity, over 2- and 3-rail solutions, allowing you to open up to 6 leaves.

TECHNICAL CHARACTERISTICS						
Variants		2-RAIL	3-RAIL			
Visible width	Frame / Vent	109 mm	109 mm			
VISIBLE WIGHT	Meeting section	34 mm	34 mm			
Overall eveters don'th	Frame / Vent	68 mm	124 mm			
Overall system depth	Meeting section	41.6 mm	41.6 mm			
Maximal vent height		2500 mm				
Maximal vent weight		160) kg			
Rebate height		18 ו	mm			
Glass thickness		28 / 36 mm				
Glazing method		with EPDM in accordance with the envelope principle				
Thermal insulation		32 mm and 36 mm fibreglass	s reinforced polyamide strips			

PER	FORMANCES										
	ENERGY										
	Thermal insulation (1) EN ISO 10077-2	Uf-value down to 2.51 W/m²K, depending on the frame/vent combination									
	COMFORT										
	Acoustic performance ⁽²⁾ EN ISO 140-3; EN ISO 717-1	Rw (C; Ctr) = 38 (-2;-4) dB									
	Air tightness, max. test pressure ⁽³⁾ EN 12207	1 (150 Pa) (3			_		3 (600 Pa)	_		4 00 Pa)	
	Water tightness ⁽⁴⁾ EN 12208	1B (0 Pa)	2B (50 P	a) (3B 100 Pa)	41 (150	_	5B (200 F		6B (250 Pa)	7B (300 Pa)
	Wind load resistance, max. test pressure (5) EN 12211; EN 12210	1 (400 Pa)	(8)	2 00 Pa)	3 (1200	Pa)		4 00 Pa)	(20	5 000 Pa)	Exxx (>2000 Pa)
	Wind load resistance to frontal deflection EN 12211; EN 12210	A (\$1/150)		B (≤1/200)			C (≤1/300)				
	SAFETY										
%	Burglar Resistance ⁽⁶⁾ EN 1627-1630	RC1		RC 2				RC 3		3	

This table shows classes and values of performances, which can be achieved for specific configurations and opening types.

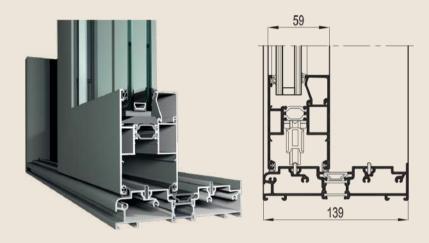
- (1) The Uf-value measures the heat flow. The lower the Uf-value, the better the thermal insulation of the frame.
- (2) The sound reduction index (Rw) measures the capacity of the sound reduction performance of the frame and glass.
- (3) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.
- (4) The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.
- (5) The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force.
- (6) The burglar resistance is tested by static and dynamic loads, as well as by simulated attempts to break in using specified tools.

This variant requires specific burglar resistance profiles and accessories.

REYNAERS CONCEPTPATIO 130 (LIFT & SLIDE)

ConceptPatio 130 is a qualitative (lift &) slide solution that balances price, performance and design. The versatile aluminium system allows both architects and homeowners to create spaces without boundaries.

- Very complete offer with various opening types
- Excellent balance between performance and affordability
- Unique low threshold renovation-friendly profile



PROPERTIES		SLIDE	LIFT-SLIDE		
	Frame	50 mm	0/28/35/40mm		
/isible width / height	Vent	98 mm	98 mm		
	Meeting	50 / 69 / 98 mm	50 / 69 / 98 mm		
	T-profile	76 - 115 mm	76 - 115 mm		
Overall system depth	Frame	110 - 139 mm	139 - 210 mm		
	Vent	59 mm	59 mm		
Rebate height		25	mm		
Glass thickness		Up to	43 mm		
Max vent weight		300 kg			
Max vent height		2700 mm			

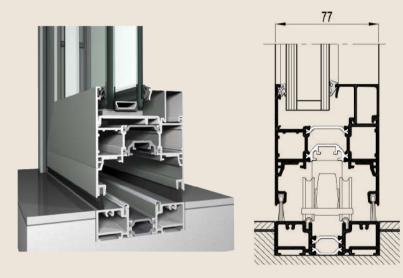
PERFORMANCE	
Thermal insulation (Uw)	Down to 1.4 W/m²K
Acoustic performance (Rw (C; Ctr))	32 (-1; -3) dB / 39 (-1; -3) dB
Air tightness	Up to 600 Pa (class 4)
Wind load resistance	Up to 2000 Pa (class 5)
Water tightness	Up to 750 Pa (class E750)
Burglar resistance	Up to RC 2 (ENV 1627) + PAS 24
	AN AND AND AND AND AND AND AND AND AND A

 $Performances\ and\ properties\ depend\ on\ size,\ profile\ combinations,\ hardware\ and\ infill\ choices.$

REYNAERS CONCEPTFOLDING 77 (SLIDING/FOLDING)

ConceptFolding 77 provides exceptional element sizes for maximal transparency and stunning aesthetics. Nature and indoors come closer together as the aluminium folding door system connects up to eight vents to draw the exterior inside.

- High-quality folding doors
- Best in class element sizes
- From 2 to 8 vents, opening any way you want



PROPERTIES	FUNCTIONAL	SLIMLINE 0 / 25 mm		
Visible frame / threshold	0/18/42/57/82 mm			
Visible vent width	66 mm	55 mm		
Visible vent - vent width	144 mm	122 mm		
System depth	77 mm	77 mm		
Max vent size	1200x3000 mm	1200x3000 mm		
Max vent weight	120 kg	120 kg		
Rebate height	25 mm	25 mm 44 mm		
Max glass thickness	63 mm			

DRMANGE	
Thermal insulation (Uf)	Down to 2.2 W/m ² K
Acoustic performance (Rw (C; Ctr))	45 (-1; -5) dB
Air Tightness	Up to 600 Pa (class 4)
Wind load resistance	Up to 1200 Pa (class 3)
Water Tightness	Up to 600 Pa (class 9A)
Burglar resistance	Up to RC 2 (EN 1627) + PAS 24
	Thermal insulation (Uf) Acoustic performance (Rw (C; Ctr)) Air Tightness Wind load resistance Water Tightness

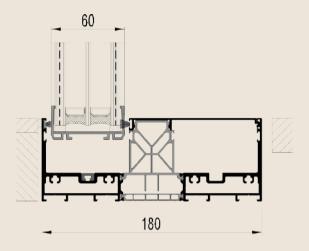
Performances and properties depend on size, profile combinations, hardware and infill choices.

HIFINITY (MOTORISED)

HiFinity's ultra-slim profiles create seemingly endless transparent surfaces with a minimalist look. The elegant aluminium sliding system combines an infinite view with impressive performances. The perfect choice for any low-energy contemporary building.

- Ultimate design freedom, matching each project requirement
- Floor-to-ceiling and wall-to-wall fully concealed profiles
- Elegant lines and an unobstructed view





PROPERTIES		STANDARD	HIGH INSULATION	
Height Built-in frame		68 / 100 mm (0mm visible)		
Visible width / height	Vent	8 mm	10 mm	
	Meeting section	35 mm (adjustable)	35 mm (adjustable)	
	Meeting section 4 doors	67 mm (adjustable)	69 mm (adjustable)	
Overall system depth	Frame	2-rail: 148 mm 3-rail: 234 mm	2-rail: 180 mm 3-rail: 282 mm	
	Vent	44 mm	60 mm	
Maximal element height		4000 mm		
Maximal vent weight		300 kg manual / 750 kg motorised / 1200 kg fixed		
Glass thickness		36 - 38 mm	52 - 54 mm	
Glazing method		Structurally glued to composite vent profiles (sliding vents) Dry glazing with EPDM (fixed glass)		
PERFORMANCE				
Thermal insulation (Uw)		Down to Uw 0.87 W/m²K		
Acoustic performance (Rw (C; Ctr))		46 (-1; -3) dB		
Air tightness		Up to 600 Pa (class 4)		
		<u> </u>		

Up to 2000 Pa (class 5)

Up to 750 Pa (class E750)

Up to RC 2 (EN 1627) + PAS 24



Performances and properties depend on size, profile combinations, hardware and infill choices.

Wind load resistance

Water tightness

Burglar resistance

ALUMINIUM FACADES

An aluminum facade is an external building envelope that uses aluminum as a primary material. Known for its durability, lightweight nature, and corrosion resistance, aluminum facades are widely used in modern architectural designs.

DURABILITY

Resistant to rust and extreme weather conditions.

LIGHTWEIGHT

Easier to install compared to other materials.

VERSATILITY

Allows for creative architectural designs like cladding, perforated panels, and decorative patterns.

SUSTAINABILITY

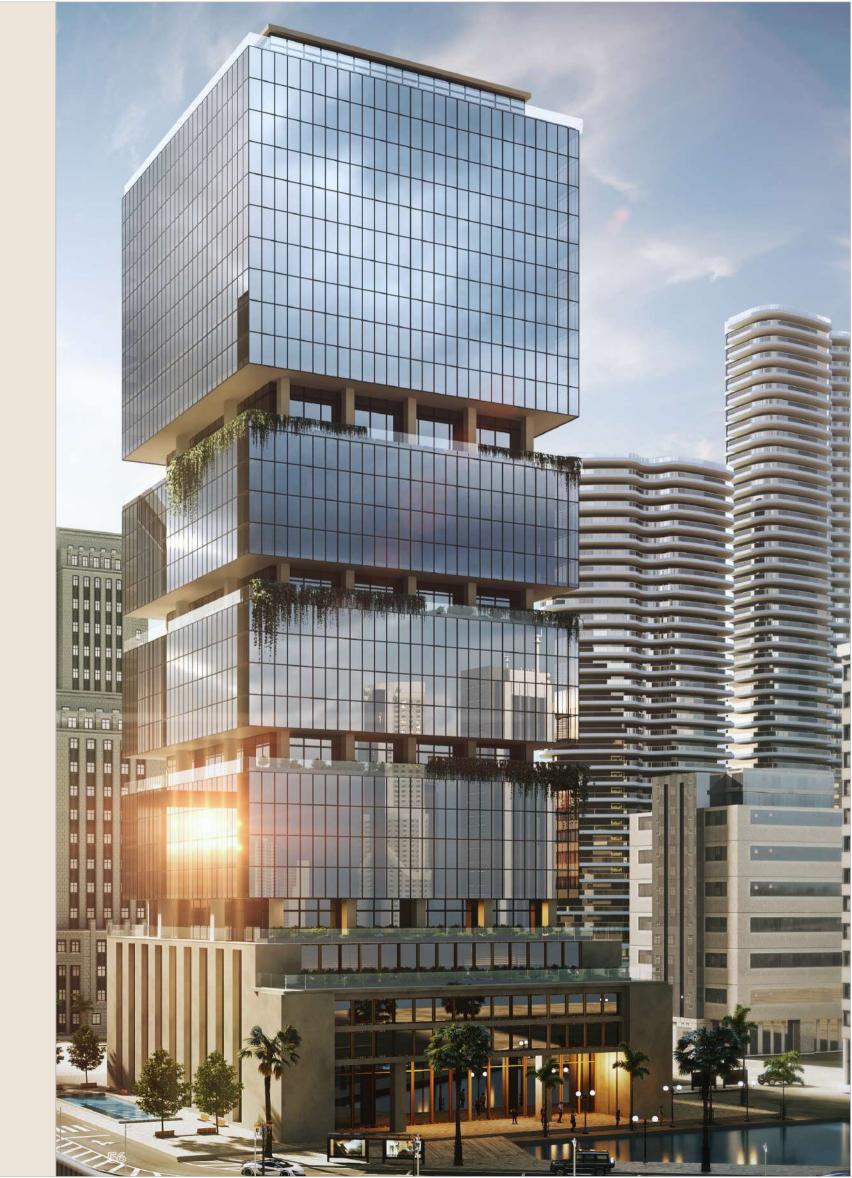
Aluminum is recyclable, making facades eco-friendly.

LOW MAINTENANCE

Requires minimal upkeep over time.

TYPES OF ALUMINIUM FACADES

- REYNAERS CONCEPTWALL 50
- ELEMENTFACADE 7 FF & MF
- BESPOKE FACADES



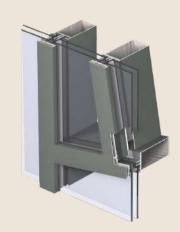
REYNAERS CONCEPTWALL 50

FACADES

ConceptWall 50 is a curtain wall façade and roof system that offers incredible building speed, unlimited design freedom and exceptional performance. The stick façade's highly insulated variants achieve energy efficiency up to Passive House levels.

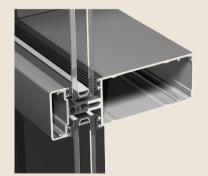
- Excellent thermal and AWW performance
- Broad range of applications and styles
- High weights and large spans

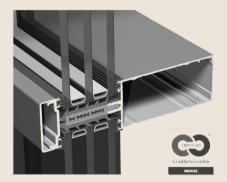




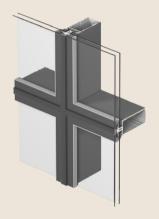
PERFORMANCE	
Thermal insulation (Uf)	Down to 0.56 W/m²K
Acoustic performance (Rw (C; Ctr))	33 (-1; -3) dB / 60 (-2; -6) dB
Air tightness	Up to 1950 Pa (class AE 1950)
Wind load resistance	Up to 2400 Pa
Water tightness	Up to 1950 Pa (class RE 1950)
Burglar resistance	Up to RC 3 (NEN 5096 / ENV 1627)

Performances and properties depend on size, profile combinations, hardware and infill choices.



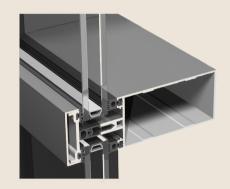


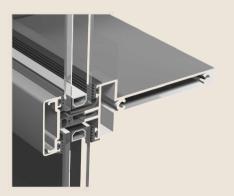
PROPERTIES	STANDARD	HIGH INSULATION
Inside visible width	50 mm	50 mm
Outside visible width	50 mm	50 mm
Glass thickness	6 - 61 mm	22 - 61 mm





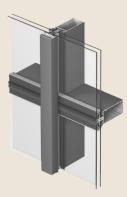
PROPERTIES	STRUCTURAL CLAMPED	STRUCTURAL GLAZED
Inside visible width	50 mm	50 / 88 mm
Outside visible width	joint: 20 mm	EPDM gasket (width 27 mm)
Glass thickness	27 - 63 mm	24 - 36 mm





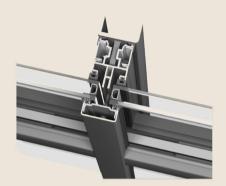
PROPERTIES	TRANSOM-TRANSOM	SLIMLINE
Inside visible width	50 mm	15 / 50 mm
Outside visible width	50 mm	50 mm
Glass thickness	6 - 64 mm	6 - 61 mm





PROPERTIES	HORIZONTAL LINING	VERTICAL LINING
Inside visible width	50 mm	50 mm
Outside visible width	vertical: 30 mm joint horizontal: 50 mm	vertical: 50 mm horizontal: 20 mm joint
Glass thickness	22 - 48 mm	27 - 40 mm





PROPERTIES	ROOF APPLICATION	ALU ON STEEL	
Inside visible width	50 mm	50 mm	
Outside visible width	50 mm	50 mm	
Glass thickness	6 - 60 mm	6 - 61 mm	





	7	Tr.	
PROPERTIES	HIDDEN VENT (INWARD OPENING)	TOP HUNG & POW (OUTWARD OPENING)	
Inside visible width	23 / 80 mm	15 / 108 mm (FUNCTIONAL & SG)	
Outside visible width	50 mm	0 mm (SG) / 105 mm	
Glass thickness	opening window: 22 - 28 mm (opening window SC: 29 - 32 mm)	24 - 62 mm	
PERFORMANCE			
Thermal insulation (Uf)	Utj down to 5.5 W/m²K	Down to 1.5 W/m²K	
Air tightness	Up to 600 Pa (class 4)	Up to 600 Pa (class 4)	
Wind foad resistance	Up to 1600 Pa (class C4)	Up to 2000 Pa (class C5)	
Water tightness	Up to 1200 Pa (class E1200)	Up to 2100 Pa (class E2100)	

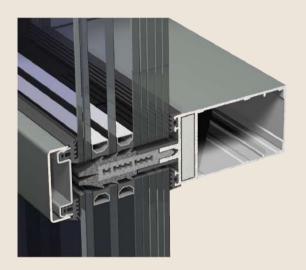
Performances and properties depend on size, profile combinations, hardware and infill choices.

REYNAERS CONCEPTWALL 50-FP

FACADES

In case your project needs fire protection, the ConceptWall 50-FP variant can create strategically placed fireproof zones where needed. With a maximum glass thickness of 78 mm triple glazed panes, the system enables uniform and high thermal performance throughout the whole façade surface.

- EW30, El30, El60 fire resistance
- High weights and large spans
- Compatible with MasterLine 8-FP doors



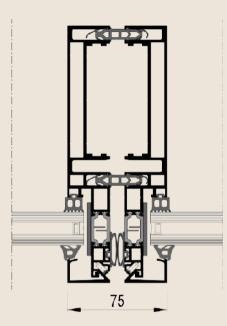
PROPERTIES	FIREPROOF 30	FIREPROOF 60
Rebate height	20 mm	20 mm
Glass thickness	34 - 78 mm	34 - 78 mm
Glazing method	fixing by pressure plates	fixing by pressure plates
PERFORMANCE	FIREPROOF 30	FIREPROOF 60
European testing standards	EN 1364-1 / EN 1364-3	EN 1364-1 / EN 1364-3
Classification standard	EN 13501-2	EN 13501-2
Thermal insulation (Uf)	0.8 W/m²K	0.8 W/m²K

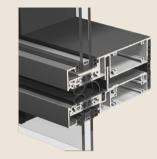
ELEMENTFACADE 7

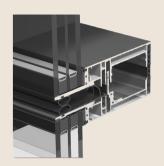
ElementFaçade 7 meets all contemporary architectural needs by offering an aesthetic, fast-to-produce and easy-to-install façade solution. The off-the-shelf unitised aluminium system combines intelligent design and reliable performance.

- Intelligent and versatile design
- Exceptional, predictable and reliable performance
- Fast in calculation, offering, assembly and installation











PROPERTIES		GLAZING BEAD / STANDARD	STRUCTURAL GLAZED	OPENING ELEMENTS
Max. dimensions W x H		2700 x 3700 mm	2700 x 3700 mm	2000 x 2500 mm
Inte	rior visible width	75 mm	75 mm	58 mm
Exterior visible width		75 mm	11 mm joint between glass	58 mm (Fu) 20 mm joint (SG)
Gla	ss thickness	26 - 63 mm	36 - 60 mm	23 - 62 mm
Gla	ss weight	300 kg	300 kg	*
Eler	nent weight	700 kg	700 kg	180 kg
Types of vent		All Reynaers Aluminium systems, top hung window, POW window	All Reynaers Aluminium systems, top hung window, POW window	
PER	FORMANCE	GLAZING BEAD / STANDARD	STRUCTURAL GLAZED	OPENING ELEMENTS
8	Thermal insulation	Uf down to 1.3 W/m²K	U _{tj} down to 3.3 W/m²K	Uf down to 1.5 W/m²K (Fu) U _{tj} down to 2.1 W/m²K (SG)
(29)	Acoustic performance (Rw (C; Ctr)	43 (-2; -4) dB	42 (-2; -4) dB	41 (-2; -4) dB
3	Air tightness	1200 Pa (class AE1200)	1200 Pa (class AE1200)	600 Pa
(D)	Wind load resistance	2400 Pa	2400 Pa	2000 Pa
3	Water tightness	1200 Pa (class RE1200)	1200 Pa (class RE1200)	1500 Pa (class RE1500)

Performances and properties depend on size, profile combinations, hardware and infill choices.

BESPOKE FACADES

SYSTEM TYPOLOGY

Mullions and transoms internal framework

EXTRUDED PROFILES

Aluminium alloy 6060 A1 Mg 0.5, Si 0.4, Fe 0.2 according to regulations UNI EN 573

TEMPER STATE

T5 according to regulations UNI EN 515

DIMENSIONAL TOLERANCES AND THICKNESSUNI EN 12020-2

THERMAL BREAK PROFILES ASSEMBLY

The coupling is done through the insert if 16 mm, long polyamide insulating bars reinforced with fiber glass and blocked through continuous rolling.

WATER/AIR TIGHTNESS TYPOLOGY

Through EPDM gaskets use

System's dimension:

Mullions: From 33mm to 175mm deep Front (facade): From 112mm to 254mm deeo Glazing thickness: From 4mm to 36mm

APPLICATION

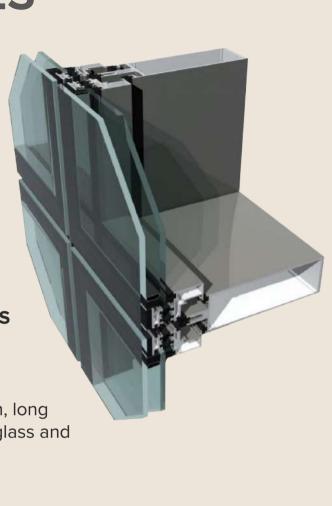
The Bespoke Facades structural system of profiles allows the construction of vertical and inclined glass facades and roofing with semi structured solutions. Allows for internal and external angles of 90 degrees. Different angles can be obtained by using specifiv profiles. Fixed panes, different size and shape panes, and projecting openings can be mounted into the units.

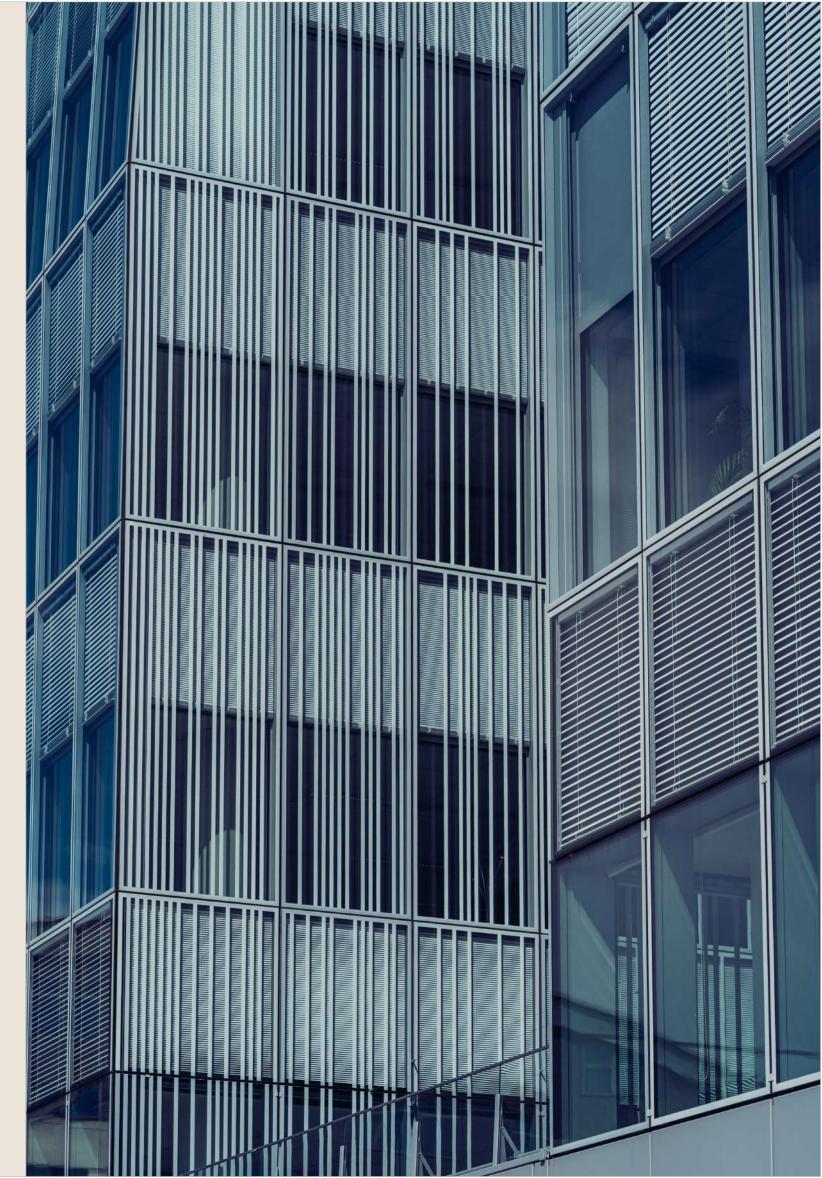
CERTIFICATIONS

Testing conducted by ISTEDIL on 17/11/2010 with test report No. 1612;

Air permeability : A2 Water tightness : Re1050 Wind resistance : 3000Pa

Noise reduction: Rw(C;Ctr)=40, 0(-1;-3)dBImpact resistance from the inside: I3 Impact resistance from the outside: E5 Linear transmittance = 0,58 W/m.K With glass Ug = 1,1 W/(m2 K)





OPTIONS

RAILINGS

Aluminum railings are modern, durable, and lightweight solutions for balconies, staircases, terraces, and fences. They are popular in residential, commercial, and industrial spaces due to their sleek design and long-lasting performance.



CLADDING

Aluminum cladding is a popular facade solution used to protect buildings while enhancing their aesthetic appeal. It involves covering the exterior walls with aluminum panels, providing a modern, durable, and low-maintenance finish.



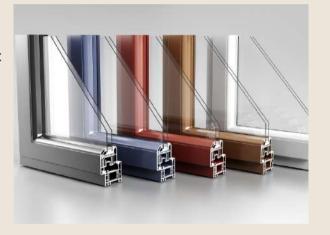
MOSQUITO SCREENS

Aluminum mosquito nets are sturdy and reliable insect protection solutions used in windows and doors. Made with high-quality aluminum mesh, they provide effective protection against mosquitoes and other insects while allowing natural ventilation and light to pass through.



FINISHES

Aluminum products are highly versatile and can be finished in a variety of colors to suit aesthetic and functional needs.



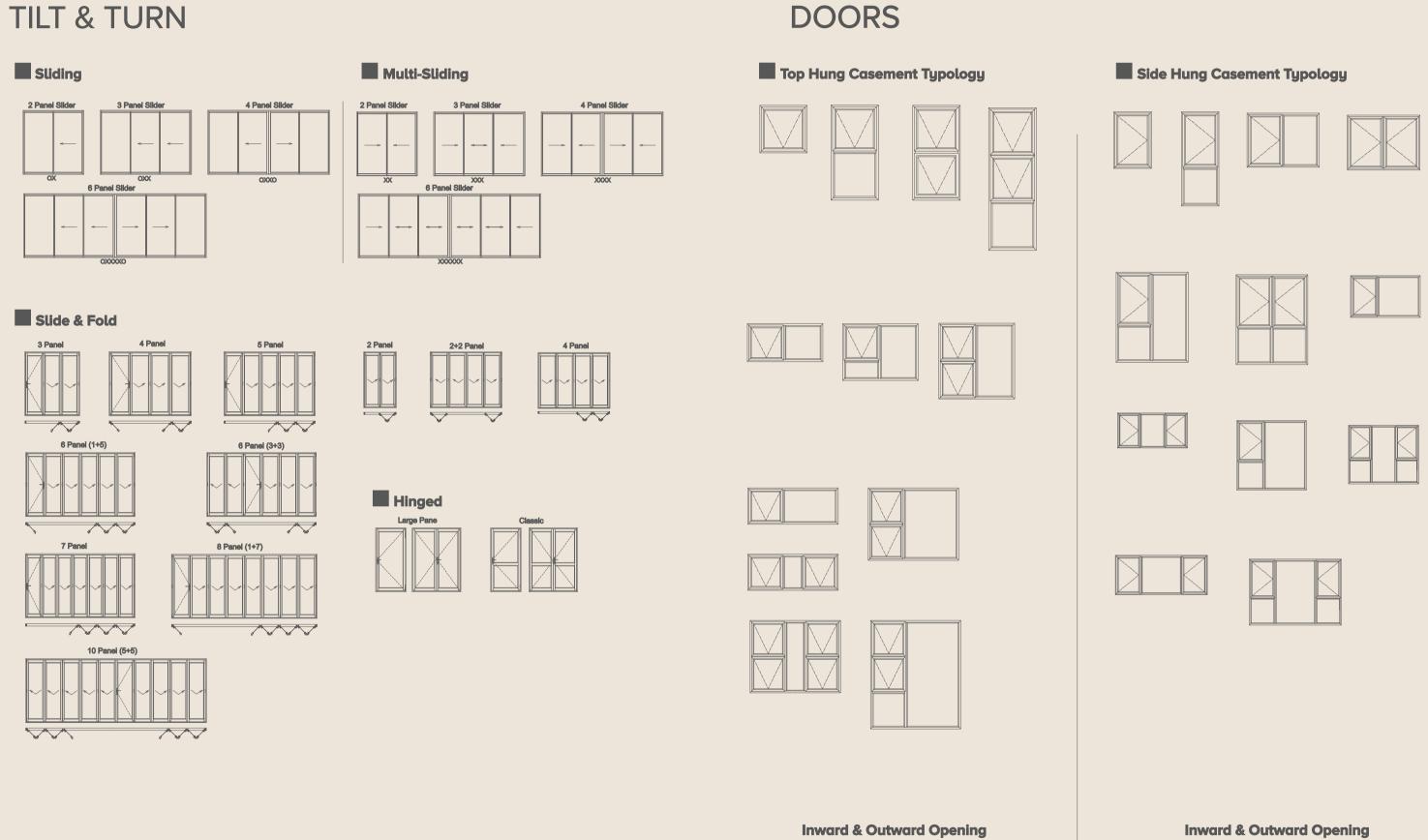
SOLAR SHADING

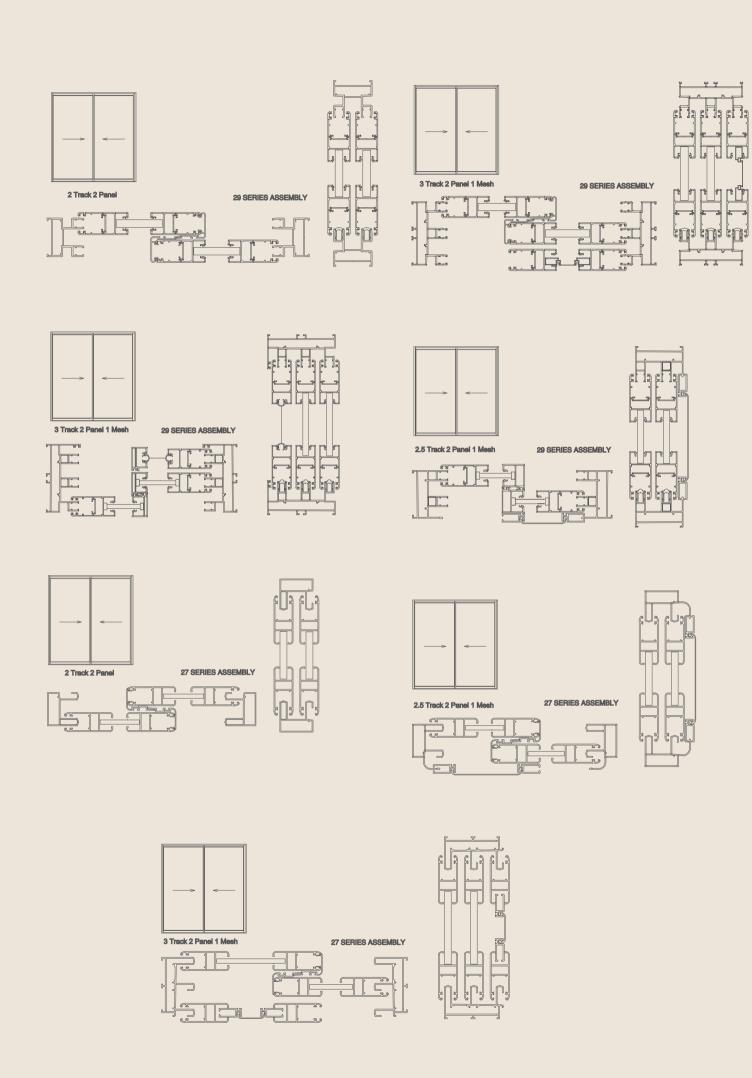
Aluminum solar shading systems are innovative solutions that regulate sunlight entering buildings while enhancing energy efficiency and aesthetics. These systems use durable, lightweight aluminum components to reduce heat gain, limit glare, and improve indoor comfort.



CONFIGURATIONS

TILT & TURN







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