

ALUMINCO[®]

ALUMINIUM
BUILDING
SYSTEMS



ARCHITECTURAL SYSTEMS

Our aluminium architectural systems are on the top line of our product range, with an undisputable quality and performance, surpassing any expectations.

Our goal is to provide systems which combine ergonomic design, comfort, security and energy efficiency which is so important to very segment of our market. These features are all prominent in ALUMINCO systems.

All the systems in this category incorporate the latest state-of-the-art technology and are designed to meet real-world needs while offering unprecedented personalization and adaptation capacity.

The company's R&D department, which constitutes the heart of evolution and upgrading of architectural systems, designs, develops, tests, and then obtains certification for its products from accredited institutes and international recognized organizations.

Discover on the following pages, the technologically advanced architectural aluminum systems of excellent functionality and top aesthetic for an easier, better, safer and more sustainable life!



W540

Tilt & Turn System

Affordable quality and compatibility.



System Identity

Particularly emphasizing on design, resistance and functionality, the system has been principally designed in order to facilitate the construction procedure and reduce the installation time. W540 can be realized with all types of inward and outward opening windows and doors, with an extensive choice of different mechanisms.

These characteristics place W540 among the most flexible, affordable non-insulated systems of the market. The numerous combinations of elements make W540 extremely suitable for all types of building concepts.

Features & Benefits

- Robust and durable system of elevated functionality
- Numerous aesthetic options from profiles in straight and curved cross sections
- Exceptional water tightness characteristics

Configurations

Casement windows

1Leaf - 2Leaf - 3Leaf - 4Leaf

Casement-awning windows

1Leaf - 2Leaf

Shutters: 1Leaf - 2Leaf - 3Leaf - 4Leaf

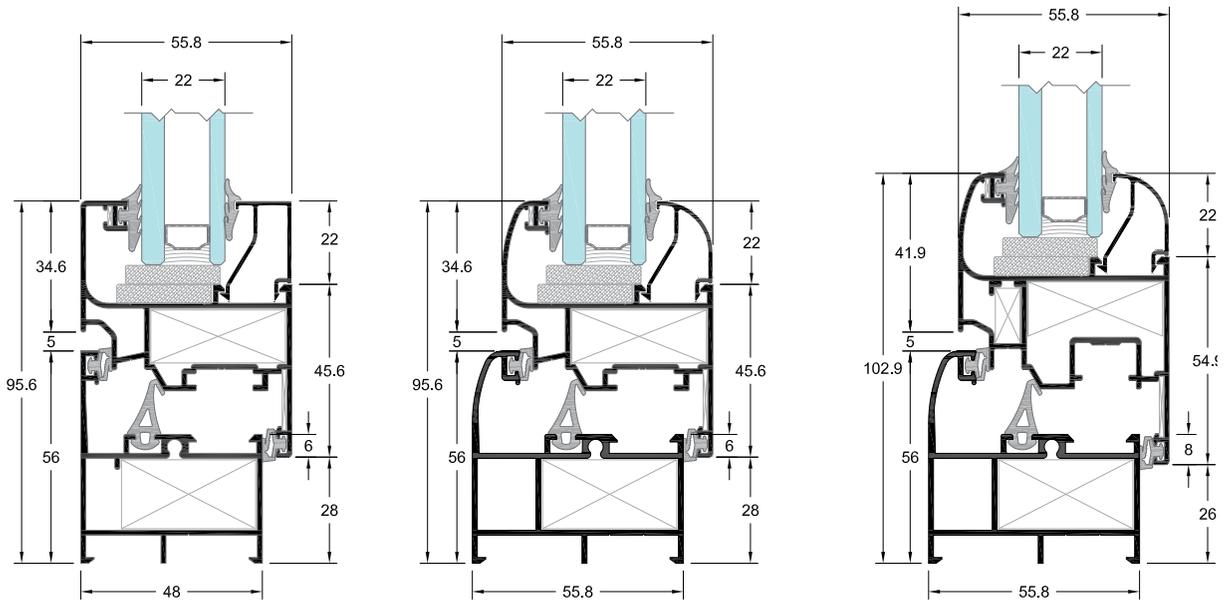
Doors: 1Leaf - 2Leaf - Tilt & Slide (VW)

Angular structure: 35°-175° with Ø60

Fixed-picture windows

Combinations

2Leaf sliding with insect screen SL320 with opening W540



CAMERA EUROPEA

CAMERA ALU 16

HARDWARE

| CAMERA | CE | ALU 16 |
|--------|----|--------|
|--------|----|--------|

SYSTEM PROFILE DIMENSIONS

| | | |
|---------------------|------|-------|
| MIN. FRAME DEPTH mm | 48 | 55.8 |
| MIN. FACE HEIGHT mm | 95.6 | 102.9 |
| GLASS THICKNESS mm | 4-32 | 4-32 |

CONSTRUCTION DIMENSIONS

| | | |
|-------------------------------|-----------------------|-----------------------|
| SASH WIDTH mm | 365-1600 | 360-1490 |
| SASH HEIGHT mm | 360-2400 | 450-2360 |
| MAX. SASH DIMENSIONS mm (WxH) | 1600x2100 / 1300x2400 | 1490x2100 / 1300x2360 |
| MAX. SASH WEIGHT Kg | 130, 150*, 200** | 130, 150*, 200** |

CERTIFICATES/PERFORMANCES

| | | |
|----------------------------------|----------|----------|
| AIR PERMEABILITY EN 12207 | Class 3 | Class 4 |
| WATER TIGHTNESS EN 12208 | E750 | Class 8A |
| RESISTANCE TO WIND LOAD EN 12210 | Class C5 | Class C4 |
| BURGLAR RESISTANCE EN 1627 | RC2/RC2N | RC2 |

*Reinforced Tilt and Turn | **Hinged with heavy duty hinges



FLAT CURVED



W450

Tilt & Turn Thermal Insulating System
Maximum energy saving.

System Identity

The W450 system belongs to the thermal insulation systems generation and has been designed with attention to detail in order to meet contemporary architectural needs for energy efficiency and safety.

This line's wide range of profiles offer numerous innovative solutions, from flat to curved sections, as well as the ability to apply complex typologies such as "aller-retour" doors, rotating windows and opening frames with hidden sash in order to achieve a high-level aesthetics.

The available profiles collaborate perfectly with high-quality components and mechanisms which underline the system's multi-faceted and ergonomic nature.

The system's non-negotiable priority for maximum energy savings and high safety is ensured due to the possibility of perimeter locking and the use of 24 mm reinforced polyamides offering a Thermal insulation Index $U_f=2.2-2.6$ W/m²K and a Sound Reduction Index R_w of 43 dB.

Features & Benefits

- The maximum security provided by the use of multiple locking combined with the high performance of thermal and sound insulation guarantee excellent quality, functionality and significant energy saving.
- Use of glass reinforced polyamides (PA66 GF25) of 24 mm.
- Multi-chamber central gasket that secures optimum impermeability preventing energy loss.
- Option of using mechanisms CAMERA EUROPEA & CAMERA ALU 16 (stainless steel locking mechanism on perimetric system).
- Manufacturing capabilities with bead cutting of 45° and snap-joined bead for excellent aesthetic result to the inside of frames.
- "Curtain" gaskets that deliver extra thermal insulation.

Configurations

Casement windows

1Leaf - 2Leaf - 3Leaf - 4Leaf - Pivot

Casement-awning windows: 1Leaf - 2Leaf

Shutters: 1Leaf - 2Leaf - 3Leaf - 4Leaf

Doors: 1Leaf - 2Leaf - Aller Retour - Tilt & Slide (VW)

Angular structure: 90°-224°

Fixed-picture windows

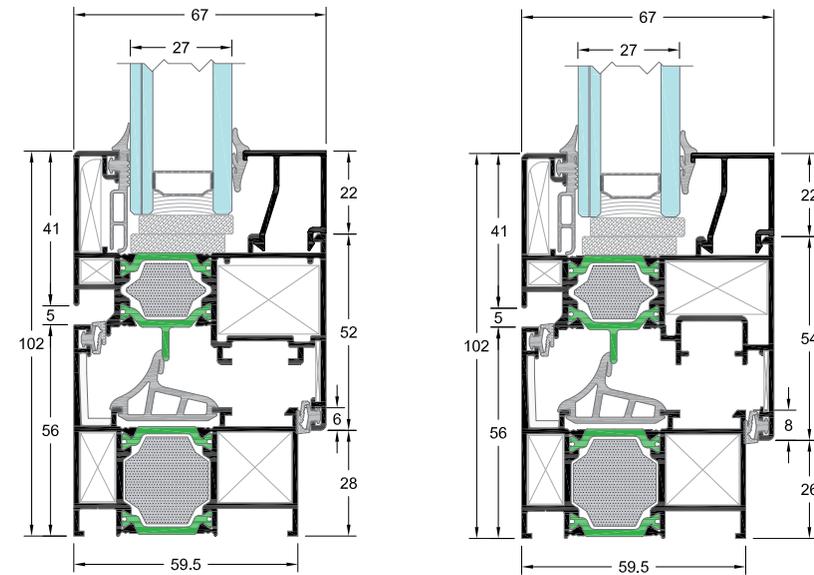
Combinations

2Leaf sliding SL200 & SL2450 with opening W450

2Leaf sliding with insect screen SL200 with opening W450



FLAT CURVED



HARDWARE

| | | |
|--------|----|--------|
| CAMERA | CE | ALU 16 |
|--------|----|--------|

INSULATION

| | | |
|---------------|----|----|
| POLYAMIDES mm | 24 | 24 |
| FOAM | ■ | ■ |

SYSTEM PROFILE DIMENSIONS

| | | |
|---------------------|-------|-------|
| MIN. FRAME DEPTH mm | 59.5 | 59.5 |
| MIN. FACE HEIGHT mm | 102 | 102 |
| GLASS THICKNESS mm | 15-51 | 15-51 |

CONSTRUCTION DIMENSIONS

| | | |
|-------------------------------|-----------------------|-----------------------|
| SASH WIDTH mm | 365-1600 | 360-1490 |
| SASH HEIGHT mm | 360-2400 | 450-2360 |
| MAX. SASH DIMENSIONS mm (WxH) | 1600x2100 / 1300x2400 | 1490x2100 / 1300x2360 |
| MAX. SASH WEIGHT Kg | 130, 150*, 200** | 130, 150*, 200** |

CERTIFICATES/PERFORMANCES

| | | |
|---|----------------------------|----------------------------|
| AIR PERMEABILITY EN 12207 | Class 4 | Class 4 |
| WATER TIGHTNESS EN 12208 | Class 6A | Class 8A |
| RESISTANCE TO WIND LOAD EN 12210 | Class C3/B3 | Class C5/B5 |
| SOUND REDUCTION R_w (C;C _{tr}) EN ISO 140-3 | 43 (-2;-7) dB | 43 (-2;-7) dB |
| THERMAL INSULATION U_f EN ISO 10077-2 | 2.2-2.6 W/m ² K | 2.2-2.6 W/m ² K |

*Reinforced Tilt and Turn | **Hinged with heavy duty hinges



Rate of Insulation

$U_w=1.4$ W/m²K

Thermal conductivity coefficient has been calculated for the construction:
1600x2400 with $U_g=0.6$ W/m²K
Glass type: 5/16 (ARGON) / 3+3



W450HS

Tilt & Turn Thermal Insulating System
An exceptional aesthetic result.



System Identity

The system W450 HS fully safeguards the sense of simplicity, pure and elegant aesthetic effect.

Reference point is the use of the least possible visible aluminum which gives the system a sense of grandeur.

The muscular appearance confirms the dynamic orientation of the series and the attention to detail is reflected, in addition to aesthetics, to the practicality and usability of the system.

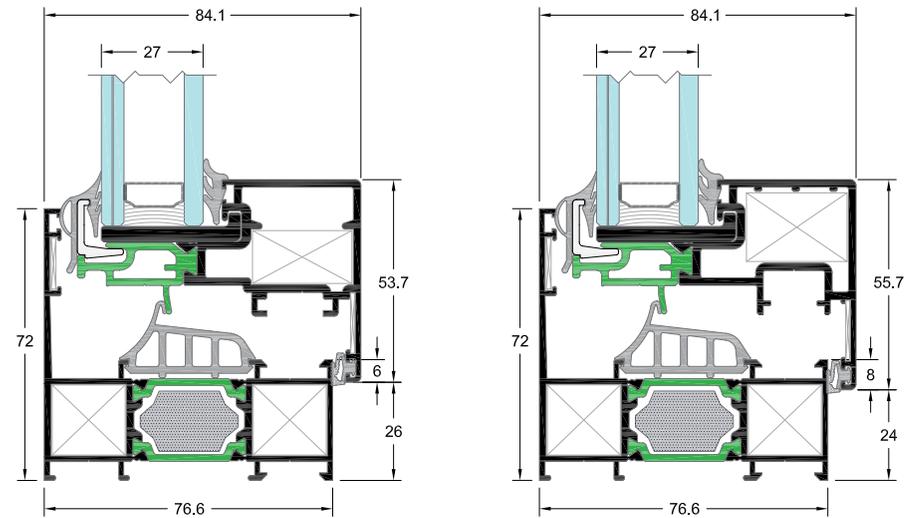
Features & Benefits

- Hidden sash with frame height 72 mm
- Use of glass reinforced polyamides of 30 mm
- High thermal insulation
- Frameless hinged robust constructions of special design

Configurations

Casement-awning windows

1Leaf - 2Leaf & 1Leaf with fixed



HARDWARE

| | | |
|--------|----|--------|
| CAMERA | CE | ALU 16 |
|--------|----|--------|

INSULATION

| | | |
|---------------|----|----|
| POLYAMIDES mm | 30 | 30 |
| FOAM | ■ | ■ |

SYSTEM PROFILE DIMENSIONS

| | | |
|---------------------|------------------|------------------|
| MIN. FRAME DEPTH mm | 76.6 | 76.6 |
| MIN. FACE HEIGHT mm | 72 OUT / 79.7 IN | 72 OUT / 79.7 IN |
| GLASS THICKNESS mm | 27 | 27 |

CONSTRUCTION DIMENSIONS

| | | |
|-------------------------------|-----------------------|-----------------------|
| SASH WIDTH mm | 365-1600 | 360-1490 |
| SASH HEIGHT mm | 360-2400 | 450-2360 |
| MAX. SASH DIMENSIONS mm (WxH) | 1600x2100 / 1300x2400 | 1490x2100 / 1300x2360 |
| MAX. SASH WEIGHT Kg | 130, 150*, 200** | 130, 150*, 200** |

CERTIFICATES/PERFORMANCES

| | | |
|--|----------------------------|----------------------------|
| AIR PERMEABILITY EN 12207 | N/A | Class 4 |
| WATER TIGHTNESS EN 12208 | N/A | Class 7A |
| RESISTANCE TO WIND LOAD EN 12210 | N/A | Class B4 |
| THERMAL INSULATION U _f EN ISO 10077-2 | 1.6-2.8 W/m ² K | 1.6-2.8 W/m ² K |

*Reinforced Tilt and Turn | **Hinged with heavy duty hinges



FLAT



Rate of Insulation

U_w=1.76 W/m²K

Thermal conductivity coefficient has been calculated for the construction: 1600x2200 with U_g=1.1 W/m²K
Glass type: 3+3 /16(ARGON)/5



W4750

Tilt & Turn Highly Thermal Insulating System
The most demanding thermal insulation requirements.



System Identity

The ALUMINCO W4750 is an advanced aluminium system that combines the proven benefits of hinged windows and doors – elegant design and maximum safety – with the highest thermal insulation requirements.

Three incomparable advantages, the use of 39 mm reinforced polyamides, the EPDM central gasket and the advanced perimeter locking mechanism, all in one system offer an outstanding Thermal Insulation Index $U_f \geq 1.2 \text{ W/m}^2\text{K}$.

It constitutes an ideal solution for high-end residential and commercial projects that require high energy efficient performance with a high degree of design along with top functionality.

Features & Benefits

- Use of glass reinforced polyamides and a foam insulating material, that offer top insulation rate $U_w=1.00 \text{ W/m}^2\text{K}$.
- Visible aluminium face width 102 mm.
- High water tightness performance due to the use of 3-level gaskets and multi chamber EPDM gasket of double extrusion
- The advanced ALU16 locking mechanism offers better safety and high protection.
- Large range of aesthetic solutions, of profiles in straight and curved cross-section with the ability to manufacture all types of openings frames
- Ideal solution for houses and buildings of high energy requirements.

Configurations

Casement windows: 1Leaf - 2Leaf - 3Leaf - 4Leaf

Casement-awning windows: 1Leaf - 2Leaf

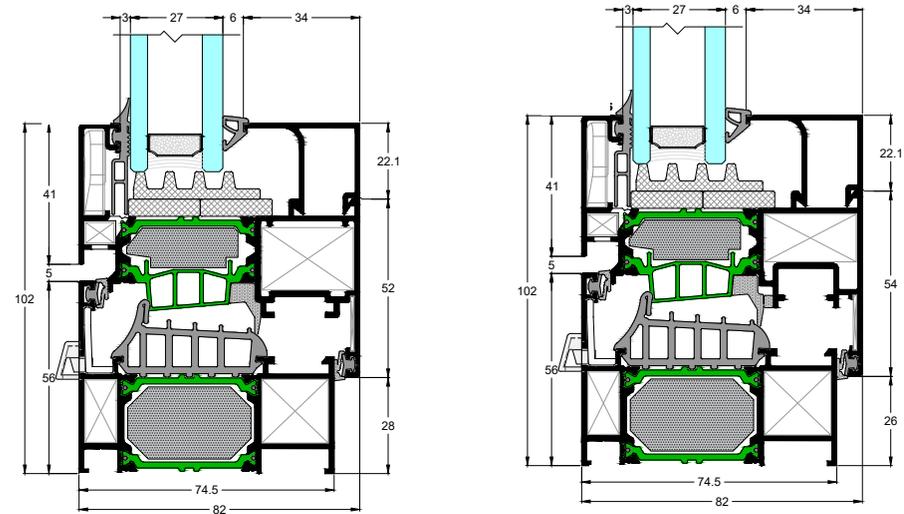
Shutters: 1Leaf - 2Leaf - 3Leaf - 4Leaf

Doors: 1Leaf - 2Leaf - Tilt & Slide (VW)

Angular structure: 90°-224°

Fixed-picture windows

Combinations: 2Leaf sliding SL2450, 2Leaf sliding with insect screen SL200



HARDWARE

| | | |
|--------|----|--------|
| CAMERA | CE | ALU 16 |
|--------|----|--------|

INSULATION

| | | |
|---------------|----|----|
| POLYAMIDES mm | 39 | 39 |
| FOAM | ■ | ■ |

SYSTEM PROFILE DIMENSIONS

| | | |
|---------------------|-------|-------|
| MIN. FRAME DEPTH mm | 74.5 | 74.5 |
| MIN. FACE HEIGHT mm | 102 | 102 |
| GLASS THICKNESS mm | 21-66 | 21-66 |

CONSTRUCTION DIMENSIONS

| | | |
|-------------------------------|-----------------------|-----------------------|
| SASH WIDTH mm | 365-1600 | 360-1490 |
| SASH HEIGHT mm | 360-2400 | 450-2360 |
| MAX. SASH DIMENSIONS mm (WxH) | 1600x2100 / 1300x2400 | 1490x2100 / 1300x2360 |
| MAX. SASH WEIGHT Kg | 130, 150*, 200** | 130, 150*, 200** |

CERTIFICATES/PERFORMANCES

| | | |
|--|--------------------------------|--------------------------------|
| AIR PERMEABILITY EN 12207 | Class 4 | Class 4 |
| WATER TIGHTNESS EN 12208 | 8A | E1200 |
| RESISTANCE TO WIND LOAD EN 12210 | Class C3/B3 | Class C5/B5 |
| SOUND REDUCTION R_w (C;C _{tr}) ISO 10140-2 | 39 (-2;-7) dB | 39 (-2;-7) dB |
| THERMAL INSULATION U_f EN ISO 10077-2 | 1.2-2.3 $\text{W/m}^2\text{K}$ | 1.2-2.3 $\text{W/m}^2\text{K}$ |

*Reinforced Tilt and Turn | **Hinged with heavy duty hinges



Rate of Insulation

$U_w=1.0 \text{ W/m}^2\text{K}$

Thermal conductivity coefficient has been calculated for the construction: 1230x1480 with $U_g=0.6 \text{ W/m}^2\text{K}$
Glass type: 44 mm=4+16+4+16+4



FLAT CURVED



W4900

Tilt & Turn Thermal Insulating System

Innovative concept with a passive house certification.

System Identity

The ALUMINCO W4900 aluminium window system has been certified by the Passive House Institute (PHI) in order to meet the high requirements of passive houses.

It incorporates all the well-known benefits of aluminium windows such as stability and high structural requirements with a superior level of thermal insulation value of $U_w=0.78 \text{ W/m}^2\text{K}$ and the greatest possible degree of architectural design freedom.

Features & Benefits

- Unique thermal insulation for aluminium windows in accordance with the passive house certification standard.
- Innovative insulation system thanks to 54 mm polyamides offering U_f value = $0.76 \text{ W/m}^2\text{K}$ with 102 mm face width.
- Increased sound reduction
- Multi-chamber central gasket that ensures optimum impermeability preventing energy loss.
- Superior safety due to the multiple perimetric locking
- Vast selection of profiles in straight and curved cross sections.
- For all typologies of casements and patio doors.

Configurations

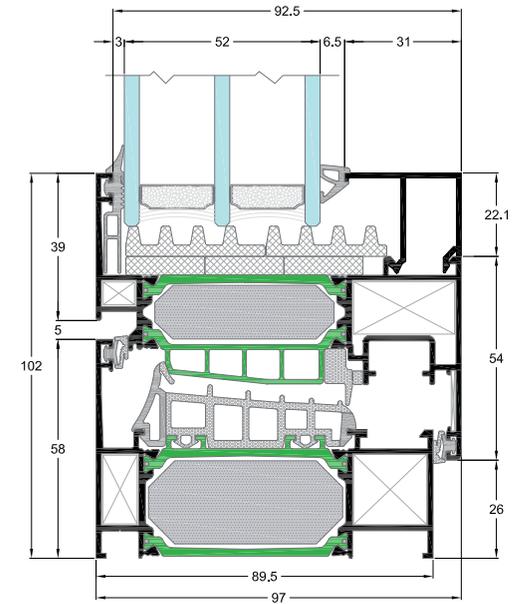
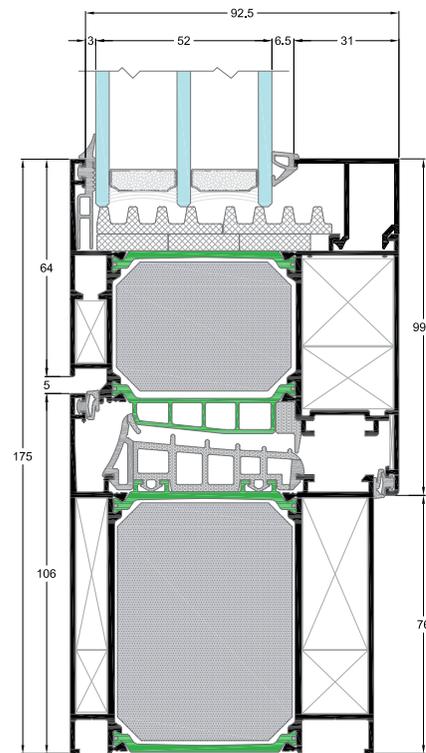
Casement windows

1Leaf - 2Leaf - 3Leaf - 4Leaf

Casement-awning windows

1Leaf - 2Leaf

Fixed-picture windows



HARDWARE

| | | |
|--------|----|--------|
| CAMERA | CE | ALU 16 |
|--------|----|--------|

INSULATION

| | | |
|---------------|----|----|
| POLYAMIDES mm | 54 | 54 |
| FOAM | ■ | ■ |

SYSTEM PROFILE DIMENSIONS

| | | |
|---------------------|-------|-------|
| MIN. FRAME DEPTH mm | 89.5 | 89.5 |
| MIN. FACE HEIGHT mm | 175 | 102 |
| GLASS THICKNESS mm | 46-81 | 46-81 |

CONSTRUCTION DIMENSIONS

| | | |
|-------------------------------|-----------------------|-----------------------|
| SASH WIDTH mm | 365-1600 | 360-1490 |
| SASH HEIGHT mm | 360-2400* | 450-2360* |
| MAX. SASH DIMENSIONS mm (WxH) | 1600x2100 / 1300x2400 | 1490x2100 / 1300x2360 |
| MAX. SASH WEIGHT Kg | 130, 150*, 200** | 130, 150*, 200** |

CERTIFICATES/PERFORMANCES

| | | |
|--|-----------------------------|-----------------------------|
| AIR PERMEABILITY | N/A | Class 3 |
| WATER TIGHTNESS | N/A | Class 6A |
| RESISTANCE TO WIND LOAD | N/A | Class C4 |
| SOUND REDUCTION R_w (C;C _{tr}) ISO 10140-2 | 52 (-2;-4) dB | 52 (-2;-4) dB |
| THERMAL INSULATION U_f EN ISO 10077-2 | 0.76 $\text{W/m}^2\text{K}$ | 0.76 $\text{W/m}^2\text{K}$ |

*Reinforced Tilt and Turn | **Hinged with heavy duty hinges



Rate of Insulation

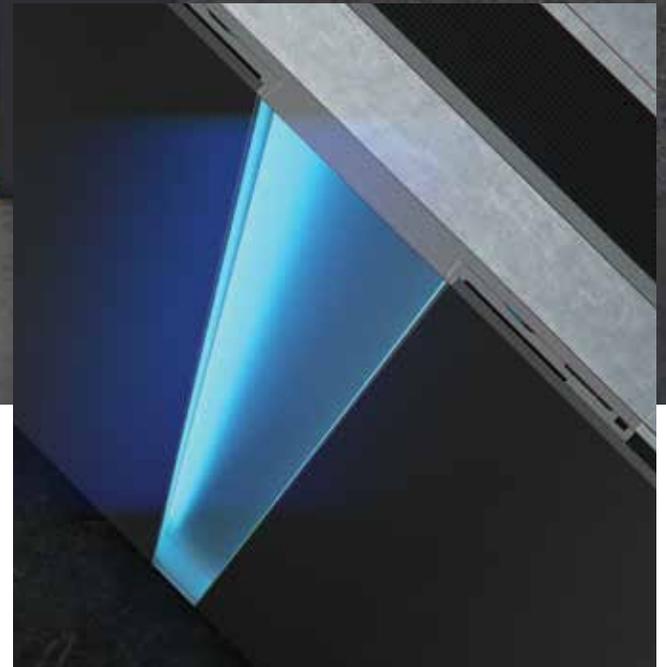
$U_w=0.78 \text{ W/m}^2\text{K}$

Thermal conductivity coefficient has been calculated for the construction: 1230x1480 with $U_g=0.7 \text{ W/m}^2\text{K}$ Glass type: 48 mm=4+18+4+18+4



D110

Pivot Door System
The epitome of magnificence.



System Identity

Combining innovative technologies with special design lines, D110 Pivot Door by ALUMINCO creates the perfect entry into a home or commercial property.

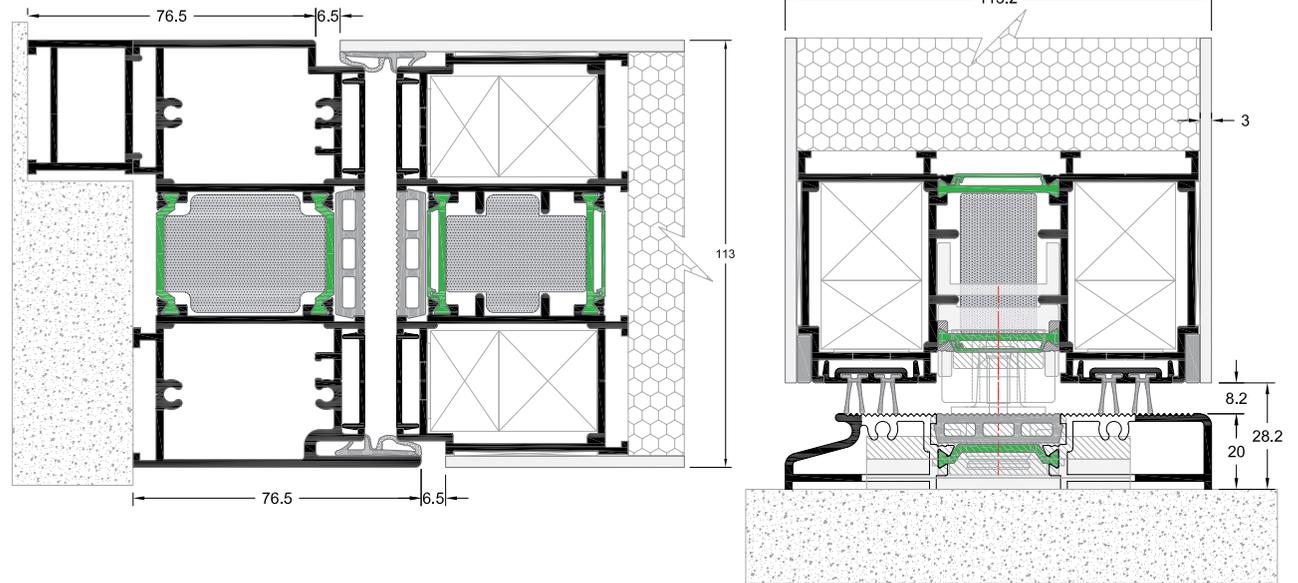
Impactful and beautiful design options, amazing strength, powerful hardware, massive panels, open with ease, are combined to make our pivot door the number one choice for entry doors.

Features & Benefits

- Anti-bi-metal polyamides, 32 mm, minimize the operational problems due to the temperature difference between inside and outside.
- Hidden pivot mechanism with door adjustment feature (right - left).
- On-floor powerful rotation mechanism.
- Hidden brake mechanism ensures slow and safe closing of the door, reducing the noise level and minimizing the risk of injury.
- Stainless steel single or multipoint lock with high burglar resistance cylinder.
- Low 20 mm threshold provides easy access, suitable for people with disabilities.
- Integrated recessed external handle of special design. The handle can optionally be illuminated by LED technology.
- Frame and sash create a flat surface.

Configurations

Door system



INSULATION

| | |
|-----------------------------|----|
| ANTI BI-METAL POLYAMIDES mm | 32 |
| FOAM | ■ |

SYSTEM PROFILE DIMENSIONS

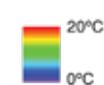
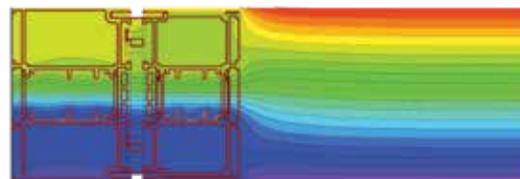
| | |
|-------------------------------|-----|
| FRAME DEPTH mm | 113 |
| DOOR THICKNESS mm | 113 |
| ALUMINIUM SHEET THICKNESS mm | 3 |
| INSULATION THICKNESS mm | 107 |
| ROTATION AXE FROM SASH END mm | 250 |

CONSTRUCTION DIMENSIONS

| | |
|-------------------------------|-----------|
| SASH WIDTH mm | 1000-2000 |
| SASH HEIGHT mm | 2100-3000 |
| MAX. SASH DIMENSIONS mm (WxH) | 1700x3000 |
| MAX. SASH WEIGHT Kg | 250 |

CERTIFICATES/PERFORMANCES

| | |
|---------------------------------------|----------------------------|
| THERMAL INSULATION Uf, EN ISO 10077-2 | 2.2-2.8 W/m ² K |
|---------------------------------------|----------------------------|



Rate of Insulation

U_d=0.69 W/m²K

Thermal conductivity coefficient has been calculated for the construction: 2000x3000 with U_p=0.27 W/m²K
Type of panel: 3/107/3



D90

High-Standards Insulated Entrance Doors System
Outstanding thermal insulating values.



System Identity

ALUMINCO's system D90, ensures the very best thermal insulation values when it comes to entrance doors along with the highest performance demands and exceptional architectural design.

The system incorporates the best and most solid profiles of perfect flat design, with multi infill options including glazing or aluminum panels, in order to fulfil the most demanding specifications. Enhanced security features and functions are an additional impressive element of the D90 system that meet current trends and increasing requirements in terms of safety and ease of use.

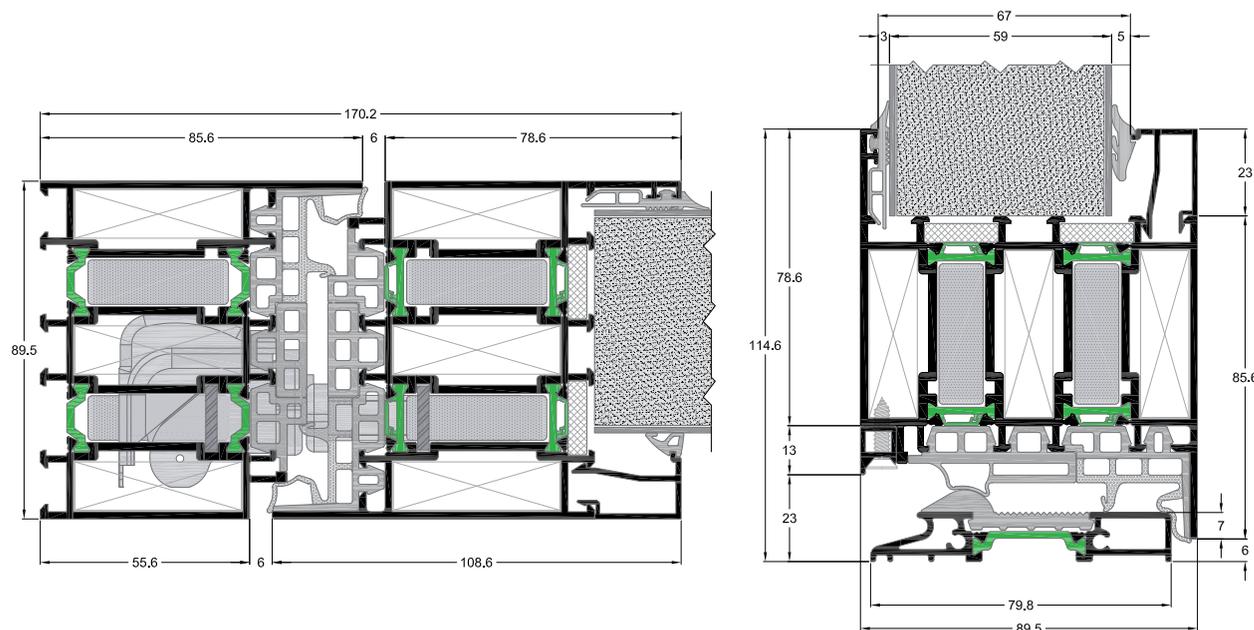
The system's exceptional properties ensure optimum sealing against wind, rain and minimum air infiltration. The ALUMINCO D90 system is fully compatible with the ALUMINCO W4900 hinged windows series, offering the best-performance solution for residential and commercial buildings, ideal not only for new constructions but also for refurbishments.

Features & Benefits

- Outstanding thermal insulation coefficient $U_d=0.79 \text{ W/m}^2\text{K}$
- Dual layer polyamides, 18 mm for increased performance and minimization of the bimetallic effect.
- Optional insulation zone with foam filling ensures the highest level of thermal insulation.
- 3 sealing levels with EPDM gaskets and a special EPDM foam gasket provide optimum water tightness.
- Top security features achieved by the 3-point security locks and door hinges that can be either concealed or surface-mounted.
- Continuous low threshold of 13 mm height increases stability, enhances water tightness and minimizes energy loss.
- Aluminum panels or glazing infills provide multiple design options.

Configurations

Doors: 1Leaf - 2Leaf with fixed W4900



INSULATION

| | |
|--------------------------|----|
| DUAL LAYER POLYAMIDES mm | 18 |
| FOAM | ■ |

SYSTEM PROFILE DIMENSIONS

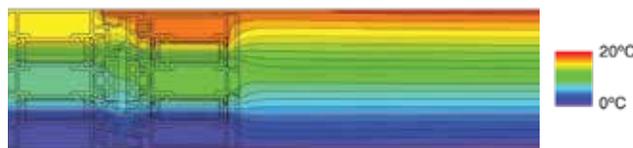
| | |
|---------------------|-------|
| MIN. FRAME DEPTH mm | 89.5 |
| MIN. FACE HEIGHT mm | 170.2 |
| GLASS THICKNESS mm | 60 |

CONSTRUCTION DIMENSIONS

| | |
|---------------------|------|
| SASH WIDTH mm | 1400 |
| SASH HEIGHT mm | 3000 |
| MAX. SASH WEIGHT Kg | 200 |

CERTIFICATES/PERFORMANCES

| | |
|---|--------------------------------|
| BURGLAR RESISTANCE EN 1627 | RC2 |
| THERMAL INSULATION U_f EN ISO 10077-2 | 1.6-1.8 $\text{W/m}^2\text{K}$ |



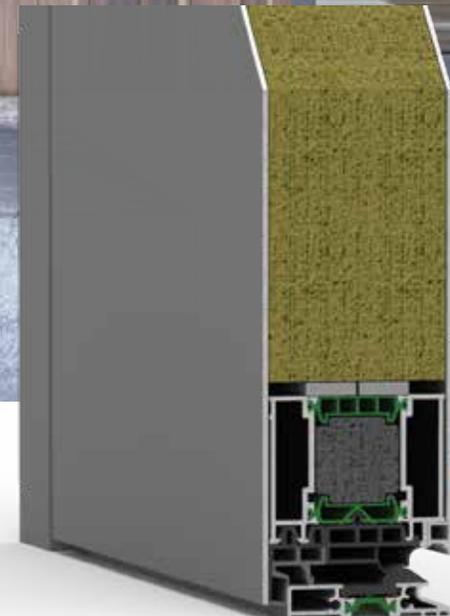
Rate of Insulation

$U_d=0.79 \text{ W/m}^2\text{K}$

Thermal conductivity coefficient has calculated for the construction:
1300x2500 with $U_p=0.33 \text{ W/m}^2\text{K}$
Type of panel: 2/85.5/2

D75

High-performance Insulated Entrance Doors System
Energy efficiency, structural stability and functionality.



System Identity

ALUMINCO's D75 is a highly insulated entrance door system that brings together the benefits of energy efficiency, structural stability and functionality.

Enhanced features and functions ensure optimum performance in terms of security and ease of use. In terms of design, ALUMINCO D75 offers a sophisticated architectural design of impressive flat lines.

The surface of the door infill can be combined either with aluminium panels or all-glass unit. The system provides the ability to create multiple constructions for both commercial and residential projects.

ALUMINCO D75 solution combines what architects, fabricators and developers have always valued: the highest degree for energy efficiency, comfort and aesthetic visual impact in the best possible way - from the perception of the idea to its implementation.

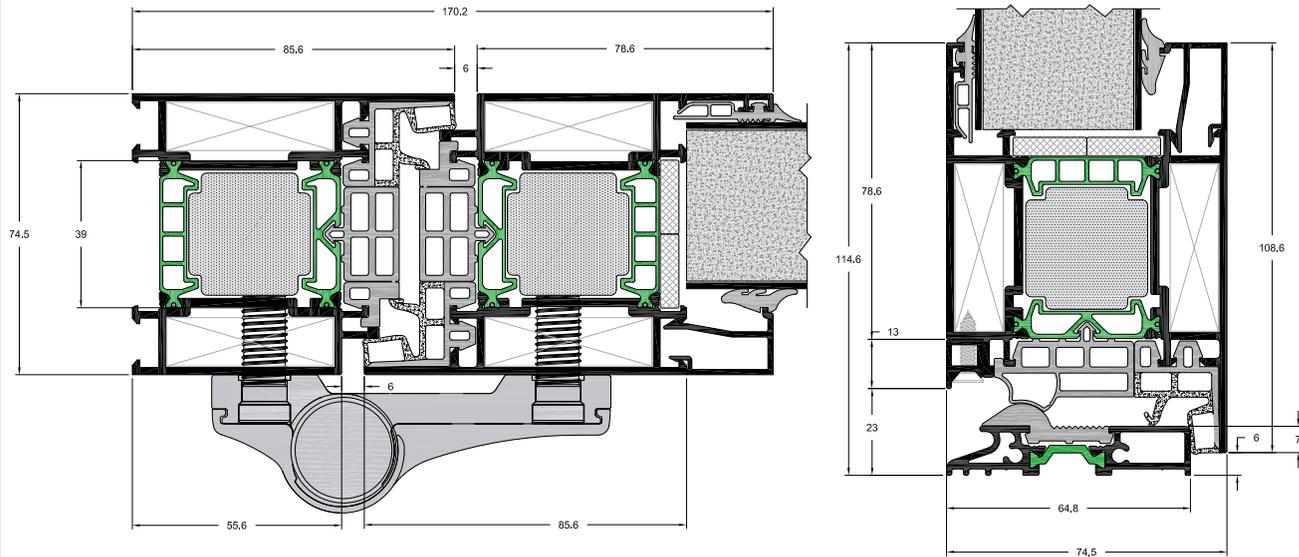
Features & Benefits

- Outstanding thermal insulation coefficient $U_d=0.79$ W/m²K
- Polyamides 39 mm for increased performance and minimization of the bimetallic effect.
- Optional insulation zone with foam filling ensures the highest level of thermal insulation.
- 3 sealing levels with EPDM gaskets and a special EPDM foam gasket provide optimum water tightness.
- Top security features achieved by the 3-point security locks and door hinges that can be either concealed or surface mounted.
- Continuous low threshold of 13 mm height increases stability, enhances water tightness and minimizes energy loss.
- Aluminum panels or glazing infills provide multiple design options.

Configurations

Doors: 1Leaf - 2Leaf with fixed

Combinations: 1Leaf - 2Leaf with W4750



| INSULATION | |
|---------------|----|
| POLYAMIDES mm | 39 |
| FOAM | ■ |

| SYSTEM PROFILE DIMENSIONS | |
|---------------------------|-------|
| MIN. FRAME DEPTH mm | 74.5 |
| MIN. FACE HEIGHT mm | 170.2 |
| GLASS THICKNESS mm | 44-52 |

| CONSTRUCTION DIMENSIONS | |
|-------------------------|------|
| SASH WIDTH mm | 1400 |
| SASH HEIGHT mm | 3000 |
| MAX. SASH WEIGHT Kg | 200 |

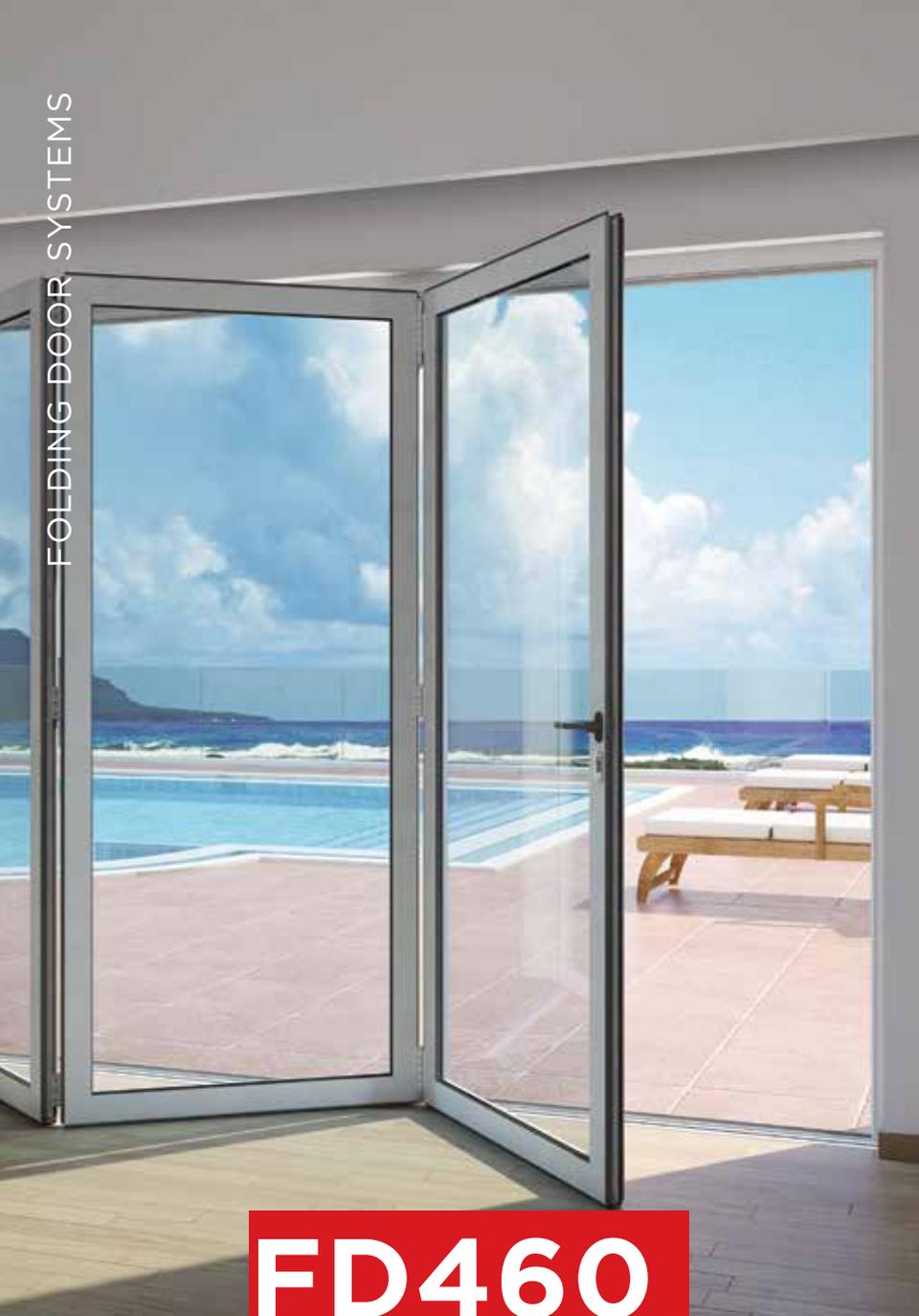
| CERTIFICATES/PERFORMANCES | |
|---|----------------------------|
| AIR PERMEABILITY EN 12207 | Class 3 |
| WATER TIGHTNESS EN 12208 | Class 5A |
| RESISTANCE TO WIND LOAD EN 12210 | Class C1/B1 |
| BURGLAR RESISTANCE EN 1627 | RC2 |
| SOUND REDUCTION R_w (C;Ctr) ISO 10140-2 | 44 (-1;-4) dB |
| THERMAL INSULATION U_f EN 10077-2 | 1.5-1.7 W/m ² K |



Rate of Insulation

$U_d=0.79$ W/m²K

Thermal conductivity coefficient has calculated for the construction: 1300x2500 with $U_p=0.40$ W/m²K
Type of panel: 2/70.5/2



FD460

Folding Door System

A wide variety of solutions of unrivaled functionality.



System Identity

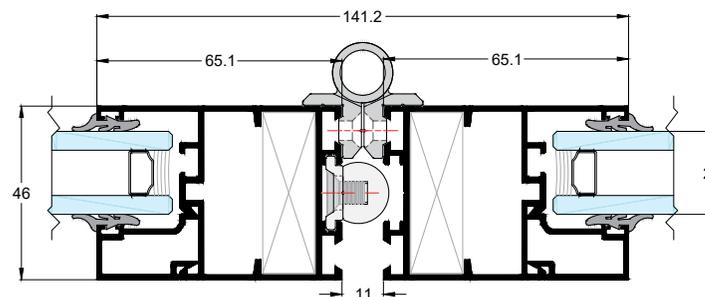
FD460 is the non-thermal insulating system for folding doors, the ideal solution for wide spans, providing excellent sealing and connecting harmoniously the interior with the exterior environment.

Features & Benefits

- Hanging on top guide using a special roller-hinge, able to support 200 Kg (100 Kg per sash).
- Sealing with both EPDM gaskets and high-density brushes.
- Low threshold for comfortable access and passage.
- Possibility of locking door construction, opening inwards.

Configurations

Folding: 3Leaf, 5Leaf, 7Leaf



SYSTEM PROFILE DIMENSIONS

| | |
|----------------------|------|
| MIN. RAIL WIDTH mm | 54.5 |
| MIN. FRAME HEIGHT mm | 22 |
| MIN. FACE HEIGHT mm | 79 |
| GLASS THICKNESS mm | 4-31 |

CONSTRUCTION DIMENSIONS

| | |
|-------------------------------|----------|
| SASH WIDTH mm | 350-800 |
| SASH HEIGHT mm | 600-2300 |
| MAX. SASH DIMENSIONS mm (WxH) | 700x2300 |
| MAX. SASH WEIGHT Kg | 100 |



FLAT



FD4600

Folding Thermal Insulating Door System
High comfort & maximal transparency.



System Identity

FD4600 is a top class insulating system for folding doors, offering extremely high performance and impressive, out of competition, properties. The desire to create living spaces filled with daylight was never so feasible.

This high performance system offers this advantage, as well as a minimal design, high insulation and functionality with hardware that have specifically been designed for folding systems. Suitable for many different typologies, having the greatest advantage of corner opening without any column. This unique feature ensures maximum transparency and easy opening, whilst another practical feature is that one leaf can act as an opening door without interrupting the other folding leaves.

FD4600 is available in multiple threshold options in order to perfectly match all comfort and aesthetic requirements. The low threshold option offers a rise of only 24 mm (ramp) giving easy access to people with special needs and allowing maximum convenience for high-traffic areas.

Specially designed rolling hinges, sliding smoothly on the bottom rail, ensure quietly and easily operation of the system.

Features & Benefits

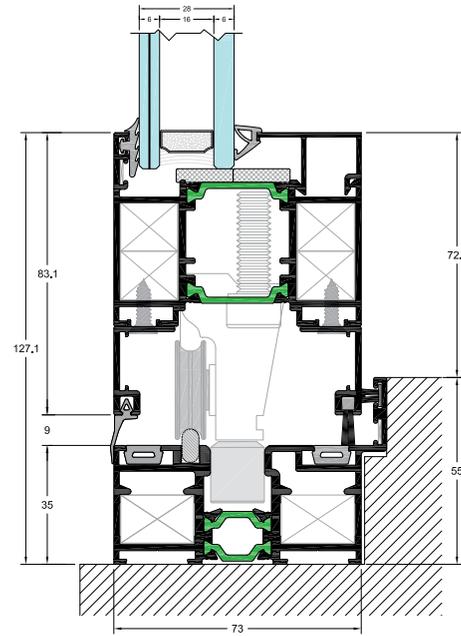
- High level of thermal insulation (U_f values down to 2.1 W/m²K) due to 30 mm polyamides.
- Exceptional water tightness, functionality, reliability and comfort.
- Suitable for large openings, every conceivable configuration achievable up to 14 leaves (7 left - 7 right) with maximum height 3 m and width of 1.20 m for each leaf.
- Ultra-smooth bottom running by using specially designed rolling hinges carrying maximum weight of 120 Kg per leaf.
- Possibility of open corners without any post.
- Able to open inward or outward door with locking system.
- Possibility of even number of openings (2, 4 etc.).
- Multiple threshold options.
- Special hinge with integrated built-in handle for easy locking.
- In and outward opening using the same profiles.
- Perfect choice for private homes, offices, restaurants and recreational areas.

Configurations

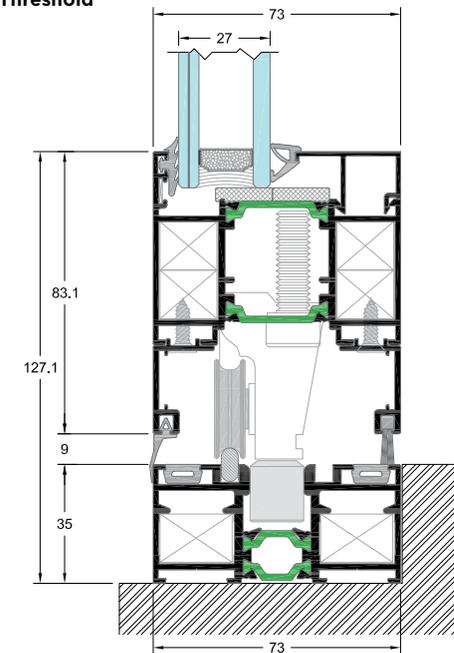
1Leaf, 2Leaf, 3Leaf... 7Leaf

Angular structure: 1Leaf, 2Leaf, 3Leaf... 7Leaf

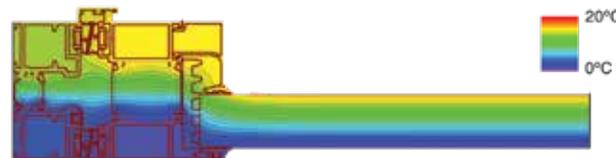
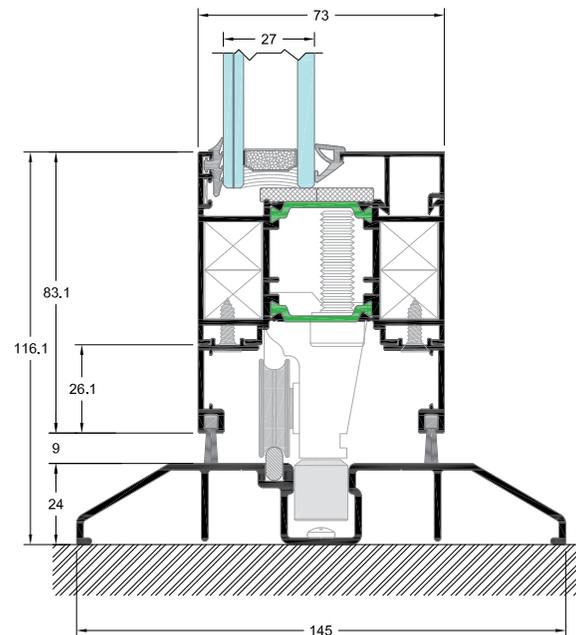
High Performance Threshold



Low Threshold



Easy Access Threshold



INSULATION

| | |
|---------------|-------|
| POLYAMIDES mm | 20-30 |
|---------------|-------|

SYSTEM PROFILE DIMENSIONS

| | |
|----------------------|-------|
| MIN. RAIL WIDTH mm | 73 |
| VENT-VENT WIDTH mm | 124 |
| MIN. FRAME HEIGHT mm | 24 |
| MIN. FACE HEIGHT mm | 127.1 |
| GLASS THICKNESS mm | 27-57 |

CONSTRUCTION DIMENSIONS

| | |
|-------------------------------|-----------|
| SASH WIDTH mm | 450-1200 |
| SASH HEIGHT mm | 600-3000 |
| MAX. SASH DIMENSIONS mm (WxH) | 1200x3000 |
| MAX. SASH WEIGHT Kg | 120 |

CERTIFICATES/PERFORMANCES

| | |
|---|----------------------------|
| AIR PERMEABILITY EN 12207 | Class 3 |
| WATER TIGHTNESS EN 12208 | Class 2A |
| RESISTANCE TO WIND LOAD EN 12210 | Class C3/B4 |
| THERMAL INSULATION U_f EN ISO 10077-2 | 2.1-3.1 W/m ² K |

Rate of Insulation

$U_w = 1.83 \text{ W/m}^2\text{K}$

Thermal conductivity coefficient has been calculated for the construction: 3500x2500 with $U_g = 1.1 \text{ W/m}^2\text{K}$
Glass type: 3+3/16 (ARGON) / 6





SL320

Slide - Lift and Slide System
Sleek flat design.



System Identity

SL320 is ALUMINCO's non insulated slide - lift and slide system that upgrades the basic functions of a sliding system and incorporates smart features previously held by higher-end systems.

The frame's exceptional design, with straight fine lines perfectly matches current architectural trends that call for minimal design, ensures a lightweight system and comes out in a number of typologies that can cover a range of needs, suitable for large constructions as well.

With sliding and lift and slide mechanisms and a number of alternative solutions, it is the most suitable system for areas of warmer climate.

Features & Benefits

- High level of aesthetic functionality.
- Minimal style and straight lines in combination with the low threshold option of 30 mm height offer particularly elegant structures and facilitate the access.
- Interlocking profile width of only 30 mm to maximize transparency and light penetration.
- Meeting style width of only 70 mm.
- The built-in handle at the junction point of the slim hook offers increased resistance to wind load.
- Sash profiles for 45° and 90° assembling.
- Wide range of configurations with sliding and Lift & Slide mechanisms.
- Smooth and easy sliding.
- Solutions for small, medium and large openings.

Configurations

Sliding

2Leaf sliding, 3Leaf sliding, 4Leaf double sliding, 6Leaf double sliding, 2Leaf sliding with insect screen

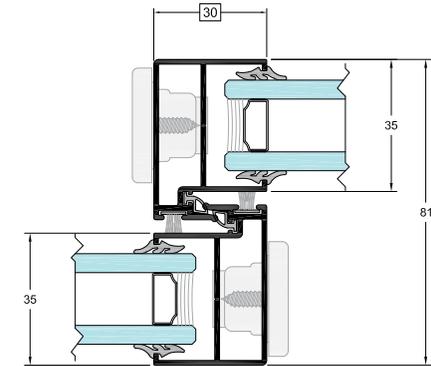
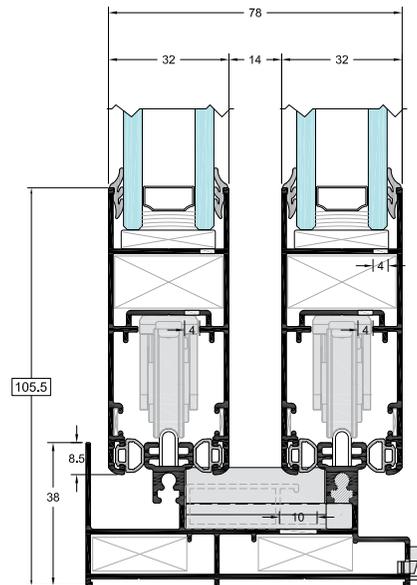
Sliding in wall

1leaf-2leaf glazing, 1leaf-2leaf glazing/mosquito screen,

1leaf-2leaf glazing/ shutter, 1leaf-2leaf glazing/mosquito screen/shutter.

Combinations

2Leaf sliding SL320 with opening AL540, 2Leaf sliding with mosquito screen SL320 with opening W540, 3Leaf sliding SL320 with opening W540.



HARDWARE

| | |
|--------------|---|
| SLIDING | ■ |
| LIFT & SLIDE | ■ |

SYSTEM PROFILE DIMENSIONS

| | |
|-------------------------------|------|
| FRAME LIFT & SLIDE WIDTH mm | 86 |
| MIN. FRAME HEIGHT mm | 30 |
| MIN. FACE HEIGHT mm | 97.5 |
| GLASS THICKNESS mm | 24 |
| SASH WIDTH mm | 32 |
| SASH HEIGHT mm | 76 |
| INTERLOCKING PROFILE WIDTH mm | 30 |

CONSTRUCTION DIMENSIONS

| | |
|-------------------------------|-----------------------|
| SASH WIDTH mm | 330-2000 |
| SASH HEIGHT mm | 520-2800 |
| MAX. SASH DIMENSIONS mm (WxH) | 2000x2400 / 1700x2800 |
| MAX. SASH WEIGHT Kg | 120 / 200* |

*Lift and slide mechanism

CERTIFICATES/PERFORMANCES

| | |
|----------------------------------|-------------|
| AIR PERMEABILITY EN 12207 | Class 4 |
| WATER TIGHTNESS EN 12208 | Class 7A |
| RESISTANCE TO WIND LOAD EN 12210 | Class C3/B4 |



SL200

Sliding Thermal Insulating System
Maximum space saving.



System Identity

SL200 belongs to the generation of thermal insulation systems providing maximum space savings, high aesthetic, exceptional performance and excellent functionality.

The special design of the system is based on the architectural trend that incorporates straight untied lines thus satisfying a wide range of requirements, both in existing and in new buildings.

The series uses the anti bi-metal polyamide, the only solution (especially in sliding units) in order to prevent warping caused by the differences in temperature between the outside and inside profiles.

SL200 adds higher performance characteristics in its category, with thermal insulation $U_f \geq 2.1 \text{ W/m}^2\text{K}$ and sound reduction up to 26 dB.

Features & Benefits

- Triple rail solution of glass, mosquito screen and shutter in 98.5 mm width and 32 mm height.
- Fortified overlapping rails with mechanical corner connection for demanding constructions.
- Special designed central adaptor of excellent functionality for ultimate water and air tightness.
- Offers high thermal insulation by using additional profiles to the hook profile section.

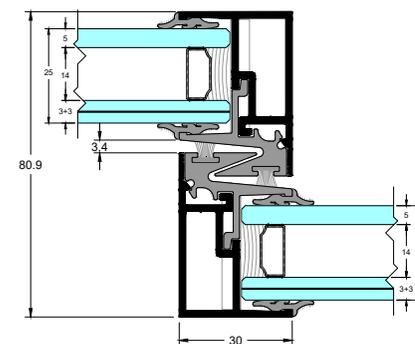
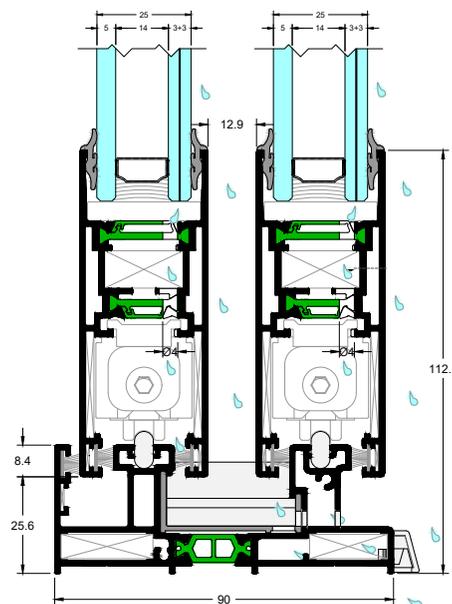
Configurations

Sliding

2Leaf sliding, 3Leaf sliding, 4Leaf double sliding, 6Leaf double sliding, 2Leaf sliding with insect screen

Combinations

2Leaf sliding SL200 with opening W450
2Leaf sliding with insect screen SL200 with opening W450



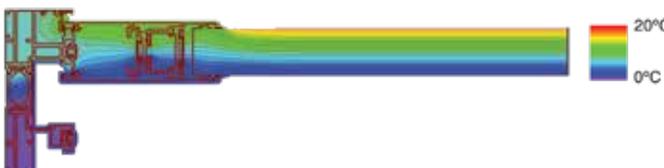
| HARDWARE | |
|--------------|---|
| SLIDING | ■ |
| LIFT & SLIDE | |

| INSULATION | |
|-----------------------------|-------|
| ANTI-BI-METAL POLYAMIDES mm | 18-30 |

| SYSTEM PROFILE DIMENSIONS | |
|-------------------------------|-----------|
| FRAME LIFT & SLIDE WIDTH mm | 90 |
| MIN. FRAME HEIGHT mm | 32 |
| MIN. FACE HEIGHT mm | 80 / 86.5 |
| INTERLOCKING PROFILE WIDTH mm | 30 |
| GLASS THICKNESS mm | up to 25 |

| CONSTRUCTION DIMENSIONS | |
|-------------------------------|-----------------------|
| SASH WIDTH mm | 330-1800 |
| SASH HEIGHT mm | 510-2400 |
| MAX. SASH DIMENSIONS mm (WxH) | 1800x2200 / 1600x2400 |
| MAX. SASH WEIGHT Kg | 160 |

| CERTIFICATES/PERFORMANCES | |
|--|--------------------------------|
| AIR PERMEABILITY EN 12207 | Class 3 |
| WATER TIGHTNESS EN 12208 | Class 3A |
| RESISTANCE TO WIND LOAD EN 12210 | Class C3/B3 |
| SOUND REDUCTION R_w (C;Ctr) EN ISO 140-3 | 26 (0;-1) dB |
| THERMAL INSULATION U_f EN ISO 10077-2 | 2.1-5.1 $\text{W/m}^2\text{K}$ |



Rate of Insulation

$U_w = 2.11 \text{ W/m}^2\text{K}$

Thermal conductivity coefficient has been calculated for the construction:
1600x2200 with $U_g = 1.1 \text{ W/m}^2\text{K}$
Glass type: 5/14 (ARGON) / 3+3



FLAT



SL2450

Lift & Slide Thermal Insulating System
Minimal face widths.



System Identity

The advanced system SL2450 offers all the functional benefits of a minimal lift and slide system with impressive performance. The system combines up to date architectural aesthetics and exceptional functionality along with high durability.

The design parameters on which the system has been constructed are architectural aesthetics, functionality combined with durability and unprecedented performance, while flexibility and ease in construction are important benefits for the modern professional. Its minimal architectural design is reflected on the 30 mm wide interlocking profile for greater visibility and natural light, while the low-level threshold offers extra comfort and easier access. In order to improve its performance, the SL2450 is equipped with 32 mm glass reinforced polyamides and EPDM gaskets that offer increased levels of thermal insulation and water tightness.

Features & Benefits

- High level of thermal insulation due to the 32 mm glass reinforced polyamides
- Its minimal and straight lines combined with the 32.5 mm low threshold offer particularly fine constructions.
- Interlocking face width of only 30 mm maximizes transparency and natural light penetration.
- The advanced lift mechanism offers high functionality, ease of use and smooth sliding while the specially designed profile with the integrated handle reinforces robustness and increases the resistance to wind pressure.
- Possibility to implement different typologies, perfectly adapting to large scale constructions.
- Ideal for hotel units, offering the ability to implement extensive lifting-sliding solutions with fixed panel.

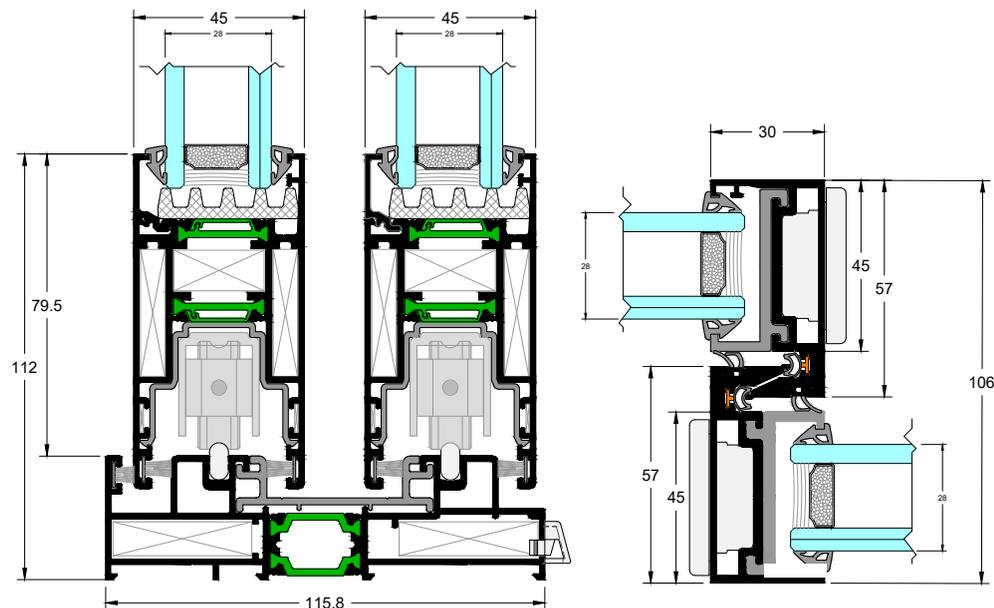
Configurations

Lift - sliding

2Leaf sliding, 3Leaf sliding, 4Leaf double sliding, 6Leaf double sliding, 2Leaf sliding with insect screen, 2Leaf sliding with fixed, 2Leaf sliding with fixed and insect screen, 1Leaf sliding with fixed

Lift - sliding pocket

1Leaf-2Leaf sliding with glass, 1Leaf-2Leaf sliding pocket with glass-insect screening system, 1Leaf-2Leaf with glass- rolling shutters, 1Leaf-2Leaf with glass-insect screen-rolling shutters.



HARDWARE

| | |
|--------------|---|
| SLIDING | ■ |
| LIFT & SLIDE | ■ |

INSULATION

| | |
|---------------|-------|
| POLYAMIDES mm | 16-32 |
|---------------|-------|

SYSTEM PROFILE DIMENSIONS

| | |
|---------------------------------|------|
| FRAME LIFT & SLIDE WIDTH mm | 115 |
| MIN. FRAME HEIGHT mm | 32.5 |
| MIN. FACE HEIGHT mm | 102 |
| MIN. INTERLOCKING PROFILE WIDTH | 30 |
| GLASS THICKNESS mm | 28 |

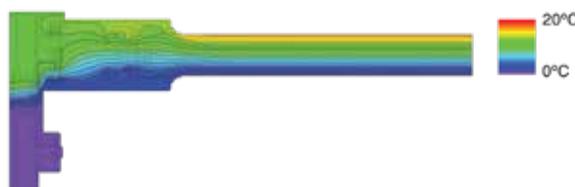
CONSTRUCTION DIMENSIONS

| | |
|-------------------------------|-----------------------|
| SASH WIDTH mm | 330-2000 |
| SASH HEIGHT mm | 1200-2700 |
| MAX. SASH DIMENSIONS mm (WxH) | 2000x2400 / 1600x2700 |
| MAX. SASH WEIGHT Kg | 200-250* |

CERTIFICATES/PERFORMANCES

| | |
|---|----------------------------|
| OPERATING FORCES EN 13115 | Class 1 |
| AIR PERMEABILITY EN 12207 | Class 4 |
| WATER TIGHTNESS EN 12208 | Class 3A |
| RESISTANCE TO WIND LOAD EN 12210 | Class C4/B4 |
| SOUND REDUCTION R_w (C:Ctr) ISO 10140-2 | 40 (-2;-7)dB |
| THERMAL INSULATION U_f EN ISO 10077-2 | 1.9-5.3 W/m ² K |

* Traditional L&S mechanism



Rate of Insulation

$U_w = 1.59 \text{ W/m}^2\text{K}$

Thermal conductivity coefficient has been calculated for the construction:
4500x2500 with $U_g = 1.1 \text{ W/m}^2\text{K}$
Glass type: 3+3 /16 (ARGON) / 5





SL2700

Lift & Slide Thermal Insulating System
High-end structures.



System Identity

The lift-and-slide system SL2700 represents the new generation of ALUMINCO's high-end systems.

Attractive and effective slim lines, excellent thermal insulation values and high-quality components create an exceptionally uplifting atmosphere.

The architectural aesthetics are depicted on the narrow interlocking face width which permits greater visibility and flow of light, while the ground level threshold offers high comfort and ease of access.

Exceeding conventional applications and fulfilling the need for wide spans, SL2700 offers more opportunities and options to the modern professional, therefore upgraded in one of the most efficient systems in its category.

Features & Benefits

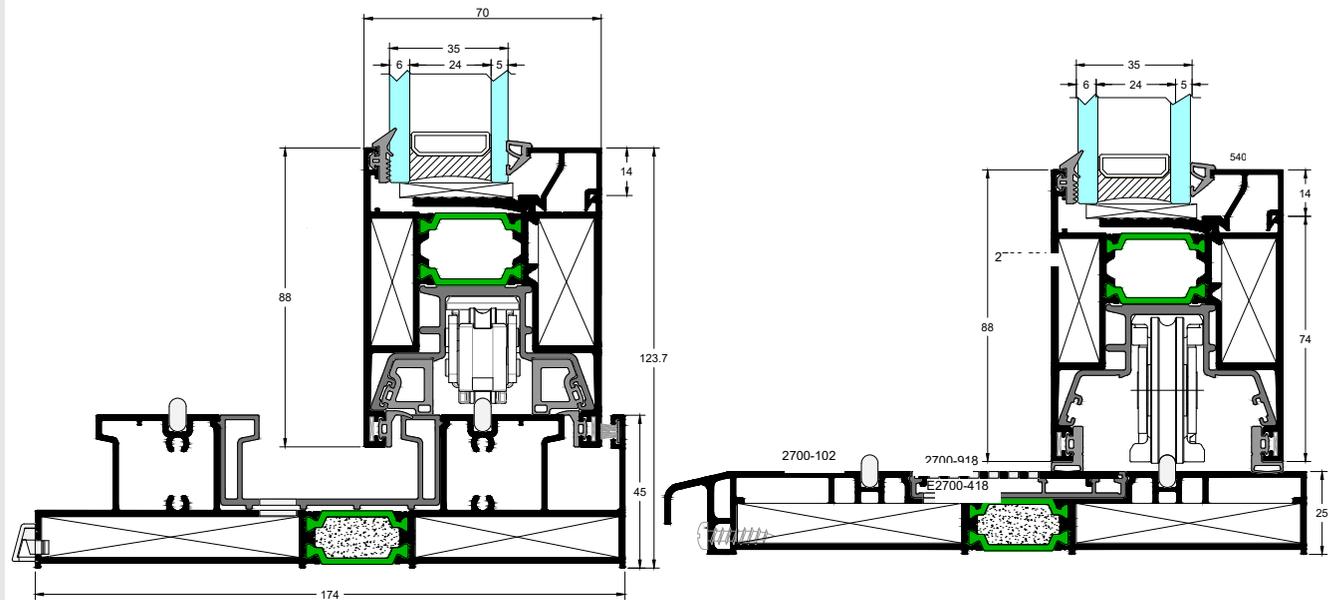
- Exceptional energy efficiency
- Impressive thermal insulation, water tightness and resistance to wind pressure.
- Minimal style and straight lines in combination with the low-level and flat threshold of 25 mm offer particularly elegant structures and facilitate the access
- Interlocking face width of only 43 mm for maximum transparency and light penetration
- The concealed lift-sliding mechanism offers smooth sliding and phenomenal functionality
- Perimetrical sealing with EPDM gaskets
- Multi-point lock with lift-and-slide for high burglar resistance.
- Wide variety of typologies and solutions with a great flexibility in construction
- Ideal for hotel units offering unique hotel solutions.

Configurations

Lift - sliding

2Leaf sliding, 3Leaf sliding, 4Leaf double sliding, 6Leaf double sliding, 2Leaf sliding with insect screen, 2Leaf sliding with fixed, 2Leaf sliding with fixed and insect screen, 1Leaf sliding with fixed

Angular structure 90°



HARDWARE

| | |
|--------------|---|
| SLIDING | |
| LIFT & SLIDE | ■ |

INSULATION

| | |
|---------------|----|
| POLYAMIDES mm | 30 |
|---------------|----|

SYSTEM PROFILE DIMENSIONS

| | |
|-------------------------------|-----------|
| FRAME HEIGHT mm | 25 |
| FRAME WIDTH mm | 174 |
| SASH HEIGHT mm | 88 |
| SASH WIDTH mm | 70 |
| INTERLOCKING PROFILE WIDTH mm | 35/43 |
| SASH WEIGHT Kg | up to 400 |
| GLASS THICKNESS mm | 22-52 |

CERTIFICATES/PERFORMANCES

| | |
|---|----------------------------|
| AIR PERMEABILITY EN 12207 | Class 4 |
| WATER TIGHTNESS EN 12208 | Class 9A |
| RESISTANCE TO WIND LOAD EN 12210 | Class B4 |
| SOUND REDUCTION R_w (C;Ctr) ISO 10140-2 | 42 (0;-3)cdB |
| THERMAL INSULATION U_f EN ISO 10077-2 | 1.7-8.1 W/m ² K |



Rate of insulation:

$U_w = 1.55 \text{ W/m}^2\text{K}$

Thermal conductivity coefficient has calculated for the construction:

4000x2400 with $U_g = 1.0 \text{ W/m}^2\text{K}$

Glass type: 5/24 (ARGON) /6





SL2900

Sliding Thermal Insulating System with Diversion
Hyper performances.



System Identity

The ALUMINCO SL2900 is a top performing sliding system with innovative and unique features, offering elegant constructions and satisfying large-scale requirements. The art of minimal architectural design with first in class performance in terms of thermal insulation, air-and water-tightness, and the value-added SOFT CLOSE function, are some of the reference points that dominate and make the SL2900 unique. The minimalistic look of the system is determined by the minimal profile face width in the centre section and an outer frame concealed in the attachment to the building structure while the fully integrated threshold option allows easy passage and maximizes user comfort.

Aside from the design, the SL2900 is the only system that combines the ease of operation of lift-slide systems with the tight seal provided by tilt & slide elements. The latter is thanks to a continuous sealing system all around the perimeter, which saves large amounts of energy. Thanks to innovative SOFT CLOSE function the system's sash slows down during closing and guided reliably into the end position, minimising the risk of injury and of damage to the window elements. This top-ranked system belongs to the new generation of architectural ALUMINCO systems, which are based on modern architectural trends, incorporating cutting-edge technology whilst offering unrivaled functionality, with unprecedented for its time performances.

Features & Benefits

- Top level thermal insulation thanks to the 24 mm reinforced polyamides.
- Exceptional performance in water and air tightness.
- Ability to use triple glazing for optimal sound reduction and maximum energy saving.
- Maximum transparency and light penetration thanks to face width of 64 mm and a concealed outer frame.
- The use of a concealed mechanism, the SOFT CLOSE damper, prevents damage caused by improper operation when opening or closing the slide sash and protects against any risk of injury.
- Suitable for covering large openings, with a maximum height of 2.5 m and width of 5 m, retaining their functionality and credibility.
- The sliding hardware can reliably withstand sash weights of as much as 250 Kg.
- Three different track options offer ideal solutions depending on operational needs and performance levels.
- Smooth and easy operation of the system, even in demanding dimensions and robust constructions, is achieved through the unique mechanism which guides the sash more gently and harmoniously into the locking position.

Configurations

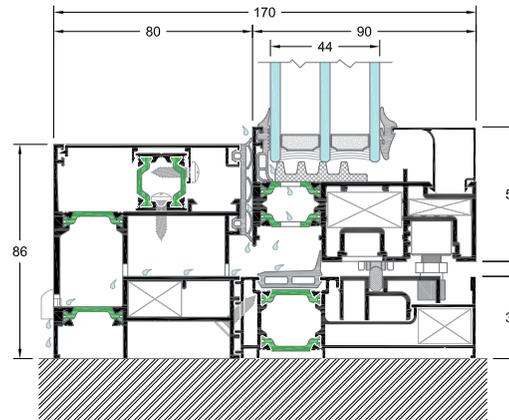
Sliding with fixed

1Leaf with fixed, 2Leaf with fixed

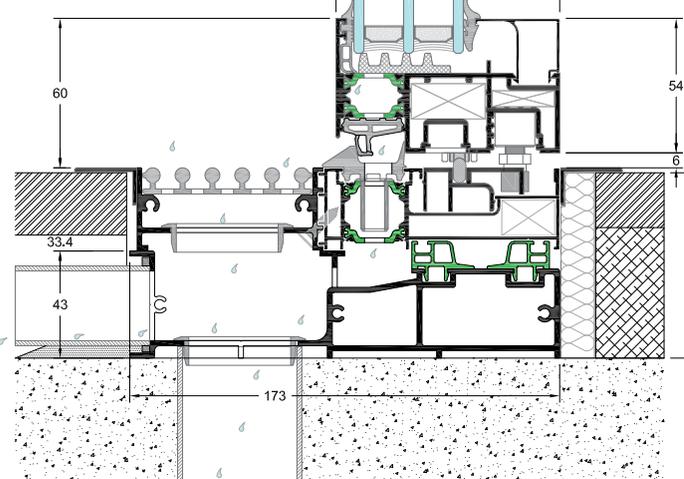


FLAT

High Level Threshold



Fully Integrated Threshold

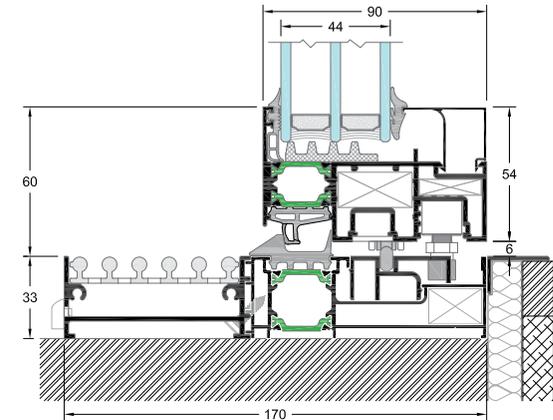


Rate of Insulation

$$U_w = 0.89 \text{ W/m}^2\text{K}$$

Thermal conductivity coefficient has been calculated for the construction: 5000x2500 with $U_g = 0.5 \text{ W/m}^2\text{K}$ Glass type: 4/16 (ARGON) /4/16 (ARGON) /4 High Level Threshold

Upgrade Threshold



HARDWARE

SLIDING WITH DIVERSION

INSULATION

POLYAMIDES mm 20-24

SYSTEM PROFILE DIMENSIONS

| | |
|----------------------|-------|
| MIN. RAIL WIDTH mm | 170 |
| MIN. FRAME HEIGHT mm | 86 |
| MIN. FACE HEIGHT mm | 54 |
| GLASS THICKNESS mm | 44-74 |

CONSTRUCTION DIMENSIONS

| | |
|-------------------------------|-----------|
| SASH WIDTH mm | 680-2500 |
| SASH HEIGHT mm | 1200-2500 |
| MAX. SASH DIMENSIONS mm (WxH) | 2500x2500 |
| MAX. SASH WEIGHT Kg | 250 |

CERTIFICATES/PERFORMANCES

THERMAL INSULATION U_f ISO 10077-2 2.0-4.5 $\text{W/m}^2\text{K}$

High Level Threshold: The high level threshold solution offers maximum performance meeting effectively even the most demanding needs.

Upgrade Threshold: The upgrade threshold option offers a rise of only 33 mm and is well suited for renovation projects.

Fully Integrated Threshold: The fully integrated option allows easy passage and maximum convenience. This element hand in hand with the visual effect of no frames creates the ultimate minimalistic appearance.



SH3400

Shadow System

Protection against solar radiation and controlling of the natural lighting of buildings.



System Identity

The specially designed blinds have the option to be placed either horizontally or vertically, movable or fixed, depending on construction needs and current architectural trends.

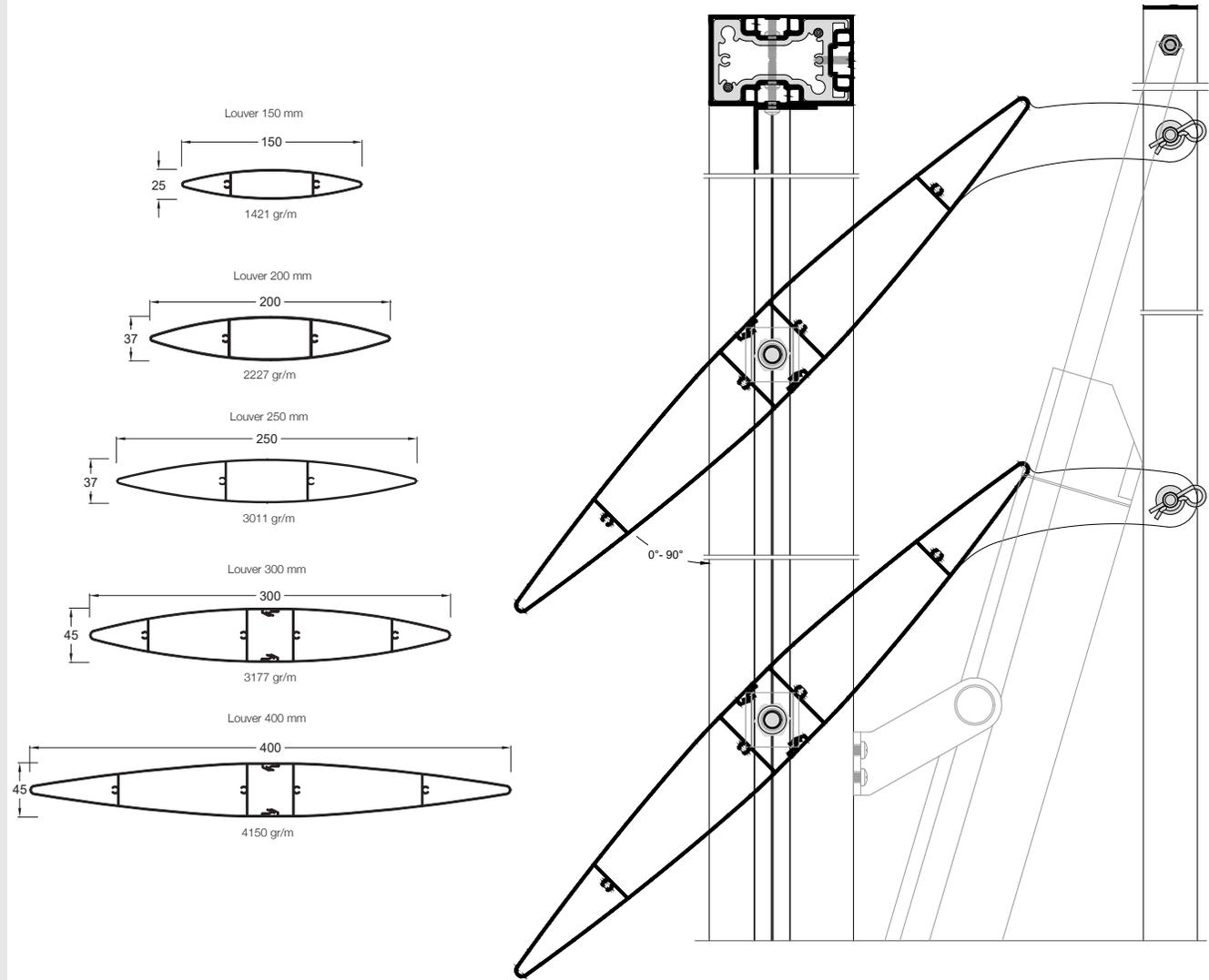
Its core characteristic feature and competitive advantage is that the gap between the frame and blind is just 10 mm, satisfying completely every requirement for minimization of solar radiation.

Features & Benefits

- A big variety of different widths and louvers is available.
- Louvers with Fixed or Adjustable inclination.
- Constructions in Horizontal and Vertical layout.
- Ease of mounting, assembly and disassembly.
- Cooperates with the Curtain Wall System EW50, Standard & Structural, by ALUMINCO.



Elliptical design louver with adjustable incline



CONFIGURATIONS

MOVABLE LOUVERS

FIXED LOUVERS

VERTICAL LOUVERS

HORIZONTAL LOUVERS

FIXED AND MOVABLE LOUVERS WITH CURTAIN WALL SYSTEM EW 50 STANDARD

FIXED AND MOVABLE LOUVERS WITH CURTAIN WALL SYSTEM EW 50 STRUCTURAL

SYSTEM PROFILE DIMENSIONS

| | |
|---------------------|-----------|
| LOUVER'S FACE mm | 37/45 |
| LOUVER'S DEPTH mm | 150-400 |
| LOUVER WEIGHT Kgr/m | 1.42-5.29 |

LOUVERS' INCLINATION

FIXED LOUVERS: 0°-15°-30°-45°-60°

MOVABLE LOUVERS: MOTOR'S MOTION RANGE 0°-110°

CONSTRUCTION DIMENSIONS

| | |
|------------------|----------|
| LOUVER'S SPAN mm | 500-3500 |
|------------------|----------|

PERFORMANCE (CALCULATED)

LOUVER 200 mm RESISTANCE TO WIND LOAD 1 KN/m² UP TO THE LENGTH OF 2300 mm INCLINE 90°

LOUVER 200 mm RESISTANCE TO WIND LOAD 1 KN/m² UP TO THE LENGTH OF 2800 mm INCLINE 45°

LOUVER 300 mm RESISTANCE TO WIND LOAD 1 KN/m² UP TO THE LENGTH OF 2800 mm INCLINE 90°

LOUVER 300 mm RESISTANCE TO WIND LOAD 1 KN/m² UP TO THE LENGTH OF 3400 mm INCLINE 45°



EW50

Curtain Wall System

High energy efficiency to fully meet all stability and safety requirements.



System Identity

Curtain walls are constructions of high architectural interest mainly used in commercial buildings covering small or large surfaces. For this product category, ALUMINCO offers an integrated system where the very good thermal insulation, sound insulation and mechanical properties have secured the implementation of important and complex projects worldwide.

The properties of the system characterize its uniqueness while offering excellent aesthetics and functionality since it is designed based on the highest architectural and engineering requirements. The EW 50 includes a wide range of solutions and works perfectly with all shading systems.

Features & Benefits

The EW50 system is divided into three main types:

Standard

- The timeless classic curtain wall solution of ALUMINCO for robust and modern design with visible grids and multiple solutions to decorative covers.

Structural

- The ultimate solution for facades of buildings cover, which hides the active participation of aluminum from its exterior.

Linear

- The harmonious combination of Standard & Structural types creates a linear effect on aesthetic architectural applications.
- High degree of functionality
- Combination with doors and windows of the D75 / D90, W450 / W4750.

Configurations

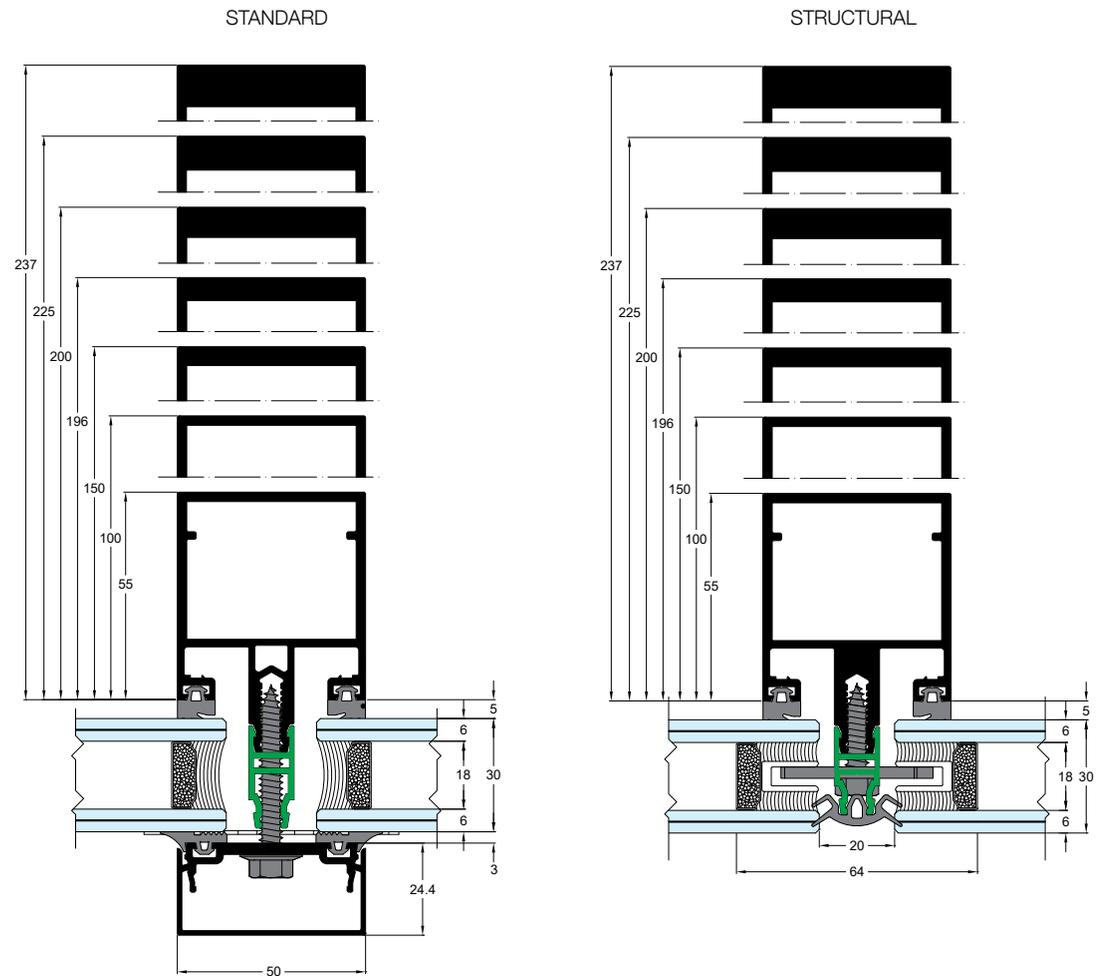
Standard and Structural

Fixed, Fixed with Top-hung windows, Fixed with parallel projected windows, Fixed with inward opening windows,

Fixed with tilt and turn opening windows, Fixed with entrance door, Corner inside/outside

Linear

Fixed, Corner inside/outside



| TYPE | STANDARD | STRUCTURAL | LINEAR |
|--------------------------------------|---|------------|----------|
| DIMENSIONS | | | |
| MULLION/TRANSOM WIDTH mm | 50 | 50 | 50 |
| MULLION/TRANSOM DEPTH mm | 16-237 | 16-237 | 16-237 |
| GLASS THICKNESS mm | 6-52 | 30 or 32 | 30 or 32 |
| CERTIFICATES/PERFORMANCES | | | |
| AIR PERMEABILITY EN 12207 | Class A4 | | |
| WATER TIGHTNESS EN 12208 | Class RE 1200 | | |
| RESISTANCE TO WIND LOAD UNI EN 12179 | Design load: ± 2000 Pa (203 Kg/m ²) Increased load: ± 3000 Pa (304 Kg/m ²) | | |

STUDIO LAB

EXCEPTIONAL
SOUND
PERFORMANCE
SOLUTION

EW50 SP

Curtain Wall System
Outstanding sound performance.



System Identity

The EW50 SP is a thermally insulated curtain wall system for robust constructions of large glass surfaces, designed with reinforced profiles and new system components that meets the highest requirements in sound performance. This curtain wall system is standard type (mullion / transom) with horizontal and vertical cover. Mullions and transoms are made with the same profiles of 50 mm sightlines. EPDM gaskets and a special thermal and acoustic isolator are used to optimize the insulation of the system. It also offers the possibility to integrate triple glazing. This option increases the size of the glazing, giving the benefit to meet demanding projects in terms of thermal and acoustic performance. In addition, the possibility of incorporating opening frames can be achieved with ALUMINCO's doors and windows series. The ALUMINCO EW50 SP is well equipped to deal with the requirements that enhance the living and working environment of a building.

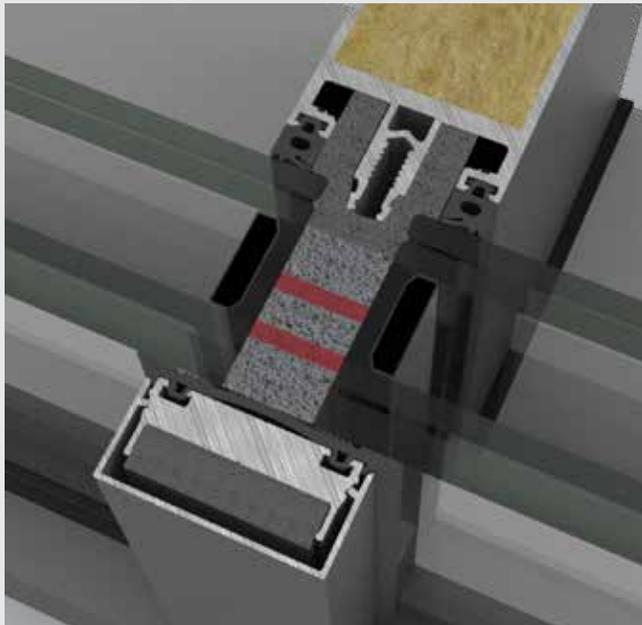
Features & Benefits

- Outstanding sound insulation
- Optimum thermal insulation
- High degree of functionality
- Triple or double glazing solutions

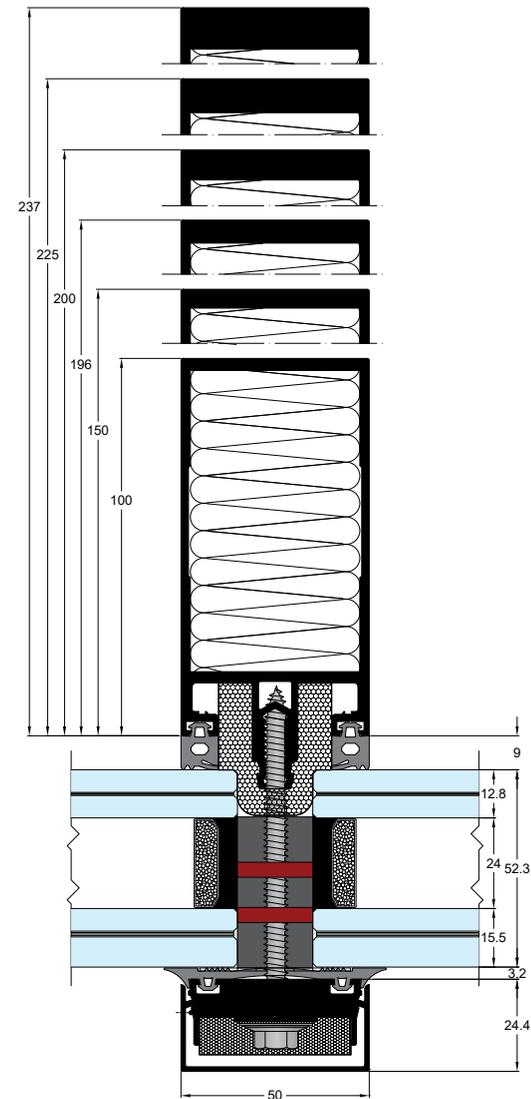
Configurations

Standard

Fixed, Corner inside/outside



SOUND PERFORMANCE



TECHNICAL CHARACTERISTICS

| | |
|------------------------|---|
| EXTERIOR VISIBLE WIDTH | 50 mm |
| DEPTH MULLION | 50-237 mm |
| DEPTH TRANSOM | 150 mm |
| GLASS THICKNESS | 12-64 mm |
| MULLIONS MAX INERTIA | $I_x=1881 \text{ cm}^4$ $I_y=83 \text{ cm}^4$ |
| TRANSOMS MAX INERTIA | $I_x=322 \text{ cm}^4$ $I_y=44 \text{ cm}^4$ |

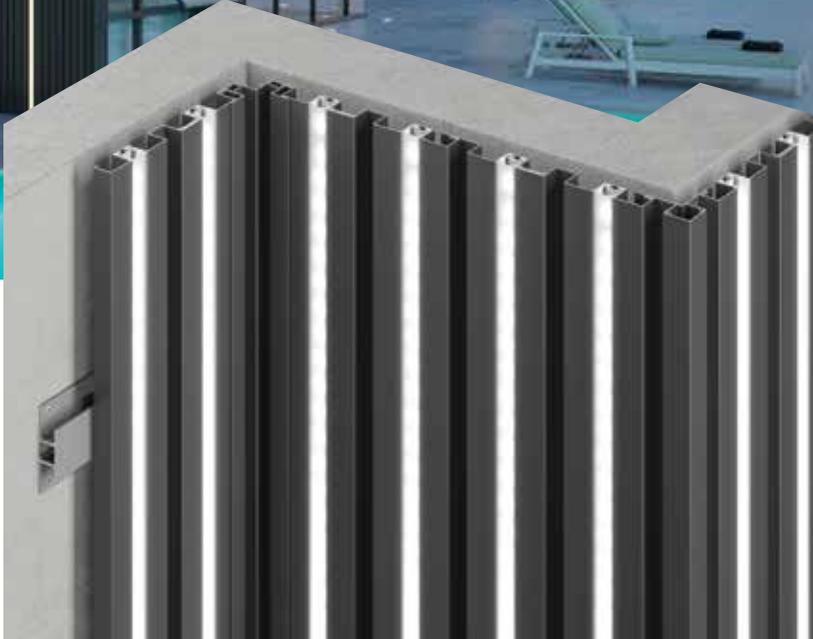
CERTIFICATES/PERFORMANCES

| | |
|---|---|
| AIR PERMEABILITY EN 12152 & 12207 | Class A4 |
| WATER TIGHTNESS EN 12208 | Class RE1200 |
| RESISTANCE TO WIND LOAD EN 12210 | Design load: $\pm 2000 \text{ Pa}$ (203 Kgr/m ²) Increased load: $\pm 3000 \text{ Pa}$ (304 Kgr/m ²) |
| SOUND REDUCTION R_w (C;Ctr) ISO 10140-2 | 52 (-3;-7) dB |
| THERMAL INSULATION EN ISO 12412-2 | 1.64 W/m ² K |



WALL & DECO

Contemporary Wall Cladding Solutions
Upgrading overall aesthetics and energy levels.



System Identity

WALL & DECO is ALUMINCO's proposal for particularly modern wall cladding constructions. It is a lightweight system, which provides coverage of large surfaces, applied both to the exterior and interior of buildings, enhancing the overall aesthetics and upgrading the energy levels.

Designed in minimal line and in numerous decorative variants, WDs provide a high degree of freedom in the design process of a space, applying perfectly well in commercial buildings, offices as well as modern residences with a unique style.

Features & Benefits

- Designed to meet the new Architectural trend.
- Provides a variety of design shapes in typologies, applications, colors, textures.
- Allows for the installation of LED lighting strips.
- Easy installation, assembly, quick and accurate placement in masonry.
- The installation of the profiles in each typology is achieved with hidden connections (eg hidden installation screws, invisible support base).
- Common assembly fixation of the profiles upgrading the aesthetic result.
- Allows complex technical applications, i.e. combinations with glass curtains, windows, entrance doors, etc.
- Application on walls, ceilings, doors, interior partitions, garage doors, and front doors.
- Suitable for large surfaces of professional, commercial buildings, offices, and modern homes.
- Resistance to corrosion, thanks to the durability of aluminum and its surface treatments.

Exterior appearance - designs

Five profile proposals and their combinations

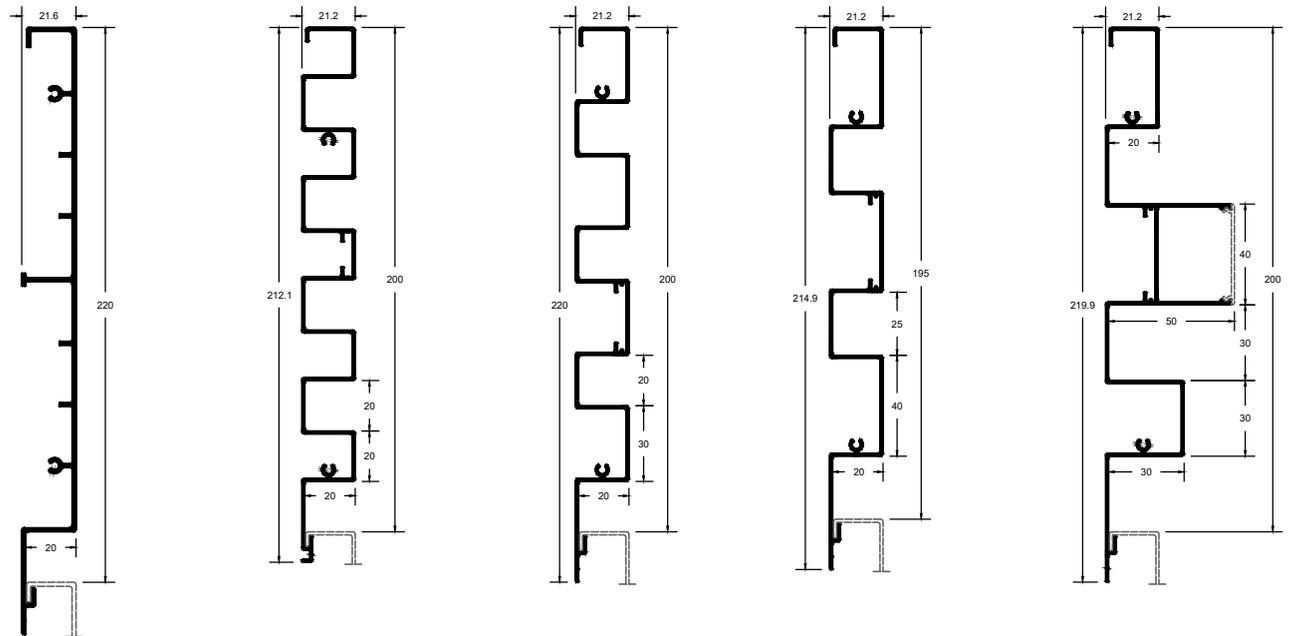
WD-2001 / WD-2020 / WD-2030 / WD-2040 / WD-2050

Configurations

Horizontal / vertical installation of the profiles

Combination between profiles

Option for LED lighting integration



TECHNICAL CHARACTERISTICS

| | |
|---------------------------------|-----------------------|
| PROFILE DEPTH | 20-50 MM |
| VISIBLE PROFILE VIEW WIDTH | 20 / 30 / 40 / 200 mm |
| VISIBLE VISUAL GAP | 20 / 25 / 30 mm |
| MAXIMUM VISIBLE PROFILE SURFACE | 200 mm |

CERTIFICATES/PERFORMANCES

| | |
|--|---------------|
| SOUND REDUCTION Rw (C;Ctr) ISO 10140-2 | 40 (-2;-6) dB |
|--|---------------|

RAILING SYSTEMS

Innovation has been our drive from day one in ALUMINCO!

Back in 1980's, ALUMINCO made a worldwide statement by producing the elegant and traditional designs of railings in cast aluminum! It was a turning point where the past met the future!

Today numerous, innovative product solutions, characterised by minimal design, extreme robustness and enhanced levels of safety, come to enhance our selection for this product category, all in the philosophy of **We are a part of tomorrow!**

Keeping up with the latest trends, technologies as well as complying with the strictest international specifications, gives our customers the confidence of selecting ALUMINCO railings!

No matter which architectural style you wish to set forth, ALUMINCO has the right system which will give the final touch to any house or building.

Find out more on our unique systems, Fusion Line - Crystal Line - Classic Line - F50 Anodized Line, railings and balusters with character who are synonymous with quality.





FUSION LINE

Timeless
elegance and
reliable safety
in absolute
balance.

In the great family of ALUMINCO's railing systems joins the series Fusion Line. The new series takes its name from its ability to combine with harmony and fantasy glass with aluminum in countless combinations, while at the same time to remain uncluttered, affordable luxury and very beautiful.

In this new series are the following types:

ORBIT, ELXIS, SYNTHESIS

Fusion line dramatically improves the most important aspects of the Railings experience. It introduces advanced and robust profiles for extra strength, unique design for impressive look and the best performance ever in a railing system.



HIGHLIGHTS

Minimalist Design

Thanks to the extreme simplicity and minimal nature of the fusion line series, it actually works really well as a visual element.

Reliable safety

Fusion line railings perform extremely well, providing utmost safety and protection.

Easy & Fast Installation

Fusion line railings are carefully designed to help installers benefit from quick and easy installations at all stages of their placement.

Three types. Endless possibilities

Orbit, Elxis and Synthesis blend aluminum and glass together in numerous unique combinations.

Tested & Approved

Fusion series have been tested and approved by notable Testing Laboratories to meet and exceed quality, safety and performance standards.

intertek



The Orbit line offers the unrivalled advantage of an unconventional design of modern line and high security robust railing architectural solutions. Among other, it supports special hotel partition applications that stand out for their aesthetics and functionality.





The Elxis line features a modern design that highlights the simplicity of the lines, ideal for minimal design spaces. It offers innovative solutions for large glazing openings while meeting the high performance standards of demanding projects.





The Synthesis line is characterized by modern aesthetics and an endless variety of profile combinations. Its uniqueness lies on the fact that 80% of its construction work can be carried out in the factory and only 20% on site.

ARCHITECTURAL
SYSTEMS

RAILING
SYSTEMS

OUTDOOR
SYSTEMS

DOORS
PANELS

PHOTOVOLTAIC
SYSTEMS

INDUSTRIAL
APPLICATIONS

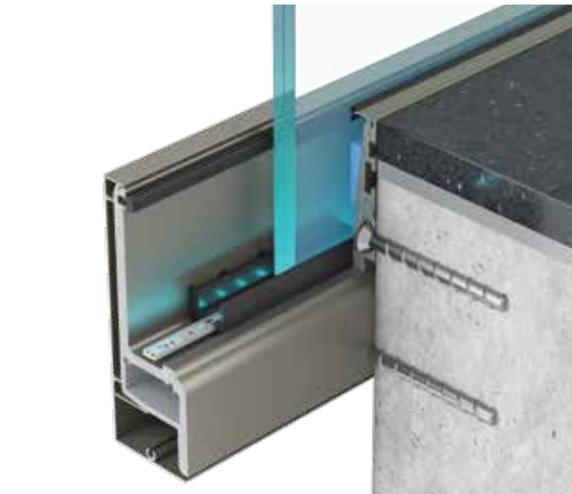
ACQUISITIES
& SERVICES

Crystaline[®]

railing system

Crystal line
Top transparency
which surpasses
human expectations

Modern people's need for more transparency, brightness and aesthetics are best met by ALUMINCO's proposal in the glass railing category. Crystal Line stands out for its unique design, functionality and safety, offering innovations that have been designed to meet current real-world needs. It is available in 3 basic types, floor and side to floor or parapet, with numerous personalized options. It is available in all anodizing and electrostatic paint colors with the choice of various shapes of handrail. The ultimate sense of freedom is uniquely achieved by the Crystal line, the ideal solution for balconies, stairs and fences with high architectural requirements.



ARCHITECTURAL
SYSTEMS

RAILING
SYSTEMS

OUTDOOR
SYSTEMS

DOORS
PANELS

PHOTOVOLTAIC
SYSTEMS

INDUSTRIAL
APPLICATIONS

ACTIVITIES
& SERVICES

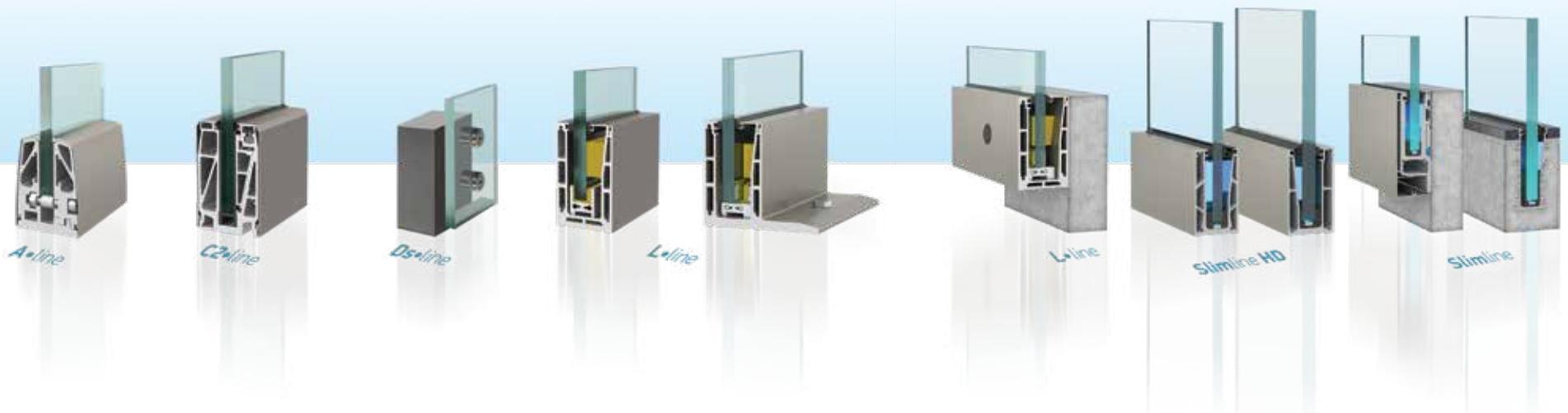
| SYSTEM | MOUNTING | | | GLASS THICKNESS ¹ | LOAD | DOMAIN OF APPLICATION ² | | | TESTED & APPROVED BY | | | | | |
|---------------------|-----------|------------|----------|------------------------------|------------|------------------------------------|------------|--------|----------------------|------|-----|-----------------------|----------|------|
| | Top Mount | Side Mount | In-Floor | | | Private | Commercial | Public | IFT Rosenheim | BBRI | FTL | Instituto Giordano | Intertek | CSTB |
| A LINE | ■ | | | 17.52 mm | ≤ 1 kN/m | ■ | ■ | | ■ | | | ■ | | |
| A10 LINE | ■ | | | 10.76 mm | ≤ 0.5 kN/m | ■ | | | ■ | | | | | |
| C2 LINE | ■ | | | 17.52 / 21.52 mm | ≤ 1 kN/m | ■ | ■ | | ■ | | ■ | | | |
| C2U LINE | | | ■ | 17.52 / 21.52 mm | ≤ 1 kN/m | ■ | ■ | | | | | | | |
| DS LINE | | ■ | | 17.52 / 21.52 mm | ≤ 1 kN/m | ■ | ■ | | | | ■ | | | |
| L LINE | ■ | ■ | | 17.52 / 21.52 mm | ≥ 3 kN/m | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ |
| SLIM LINE HD | ■ | | | 13.52 / 21.52 mm | ≤ 2.5 kN/m | ■ | ■ | ■ | ■ | | | | | ■ |
| SLIM LINE | ■ | ■ | ■ | 11.52 / 21.52 mm | ≤ 1 kN/m | ■ | ■ | | ■ | | | | | ■ |

1. GLASS: Laminated Tempered

2. PRIVATE: Spaces such as Houses, Residences, Villas

COMMERCIAL: Spaces such as Offices, Shops, Retails

PUBLIC: Spaces such as Shopping Malls, Stadiums, Airports



The innovative Crystal line system have been installed in countless projects around the world, each one having its own distinctive features and architectural requirements.

Make a real statement in terms of safety

Safety and protection are fundamental priorities during the design and development process of Crystal line railings. Plenty of certifications from internationally recognized institutions ensure maximum user safety.

Among these are:

- Intertek (USA)
- FTL (Florida, USA)
- IFT Rosenheim (Germany)
- BBRI (Belgium)
- Istituto Giordano (Italy)
- CSTB (France)

intertek



ISTITUTO
GIORDANO



CSTB

Whether your project is an average residence or a commercial place, an airport or office or sports stadium, Crystal line systems are able to adapt and deliver the perfect solution.

Slim line

ARCHITECTURAL
SYSTEMS

RAILING
SYSTEMS

OUTDOOR
SYSTEMS

DOORS
PANELS

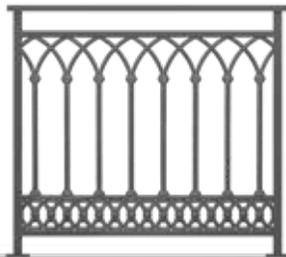
PHOTOVOLTAIC
SYSTEMS

INDUSTRIAL
APPLICATIONS

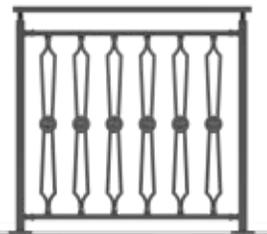
ACTIVITIES
& SERVICES

Classic line

Authentic cast lines
without restrictions



They are available in a wide variety of traditional and modern designs and in unlimited color variations while they are made of long-lasting aluminum alloy and profiles with anti-corrosion properties. They are distinguished for their durability without the need of time-consuming maintenance and are accompanied by a variety of components, offering solutions for multiple structures, with particular ease of installation and maximum protection against corrosion.





CLASSIC LINE

ARCHITECTURAL
SYSTEMS

RAILING
SYSTEMS

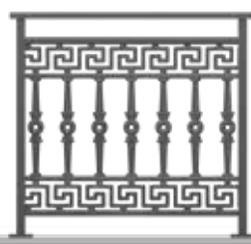
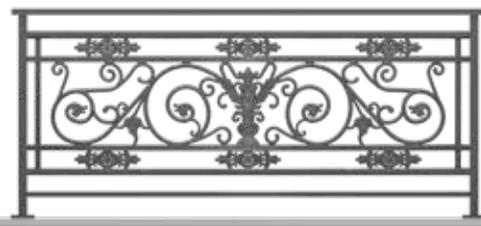
OUTDOOR
SYSTEMS

DOORS
PANELS

PHOTOVOLTAIC
SYSTEMS

INDUSTRIAL
APPLICATIONS

ACTIVITIES
& SERVICES



OUTDOOR SYSTEMS

Outdoor living systems such as windscreens, pergolas, verandas, gates, fences, canopies and lighting and garden furniture, in a wide range of models and designs, offer complete solutions in the modern architectural design of homes and business premises.

Designed to blend in harmony with the natural surroundings, these products offer practical and highly functional solutions, protection from the sun and the wind, giving privacy for every open space, ideal to residential or commercial areas such as home gardens, cafes, restaurants and hotel units.

An extensive selection of models, color finishes and technical features make these products a unique choice! All products are characterised by minimal design, extreme robustness and uncompromising functionality and durability over time, without special maintenance requirements.

Limitless options that combine aesthetics with top quality, will inspire you. Match what reflects your personal taste and lifestyle.

OPEN AIR

Outstanding flowing design
made of glass and aluminum.

The Open Air system is a world-class technological breakthrough concept providing endless options for the most demanding design or construction.

Combining innovative technologies with special design lines, the Open Air models PLUS, ULTRA PLUS, FIXED, GLASS WALL, E-MOTION constitute the ultimate solution for professional sites and outdoor spaces such as restaurants, cafes, hotels and more. A unique innovation, patented* and available exclusively from ALUMINCO, where the moving part of the system is raised or lowered with a single motion and effortlessly according to our wishes and weather conditions.

Open air system is available in 3 standard types OA 1600, OA 1800, OA 2000 based on height parameter and each type is available in 5 different lengths 1000 mm, 1200 mm, 1500 mm, 1800 mm and 2000 mm. All types of the Open air system can be delivered in two standard corners of 90° angle, internal and external. Unique optional solutions such as trolley base, sealing support and additional profiles add value to the Open air experience, whilst offering complete customer satisfaction down to the last detail.

Each Open Air model is the aftereffect of handmade expertise which you can rarely come across throughout the aluminum industry. All editions carry the specially designed logo Open Air by ALUMINCO stressing further the culture of excellence and offering a unique experience to the end user. A one-of-a-kind experience!

* Hellenic patent number: 1008916
Registered to European patent: 3359757
United States patent number: US 11,203,874 B2

Open air
PLUS

Open air
ULTRA+



Open air

by ALUMINCO



Outstanding Elegance

The least visible aluminium frame achieve a minimal and modern style while the laminated glass release the maximum of natural light in the inner environment.

Easy to Use

It can be raised and lowered with a simple motion. It is designed to be easy and flexible to handle.

Light & Robust

The frame is made of aluminium, equipped with safety glass, tempered in the fixed part and triplex at the moving sections. It is designed to demonstrate outstanding durability against external pressure.

Unique Open Air Protection

All modules perform extremely well in open air spaces providing sound reduction and high protection against all weather conditions.

Convenient Installation

Open Air modules are carefully designed to help installers benefit from quick and easy installations throughout carrying and mounting stages of modules.

Tested & Approved

Open Air Systems have been tested and approved by notable Testing Laboratories to meet and exceed quality, safety and performance standards.



intertek



Open air eMOTION

Open Air E-MOTION is the electrical version of the Open Air system, that cleverly decorates outdoor living spaces, operating with a unique and controllable mechanical system. Open Air E-MOTION can fit and adapt to every environment, impresses with its dimensions and offers an enjoyable experience.





Open air



Open air Glass Wall

Glass Wall system is available in 6 standard types - OA 1000, OA 1100, OA 1200, OA 1600, OA 1800, OA 2000 - based on height parameter and each type is available in 5 different lengths - 1000 mm, 1200 mm, 1500 mm, 1800 mm, 2000 mm. Glass Wall system is also available, upon request in custom lengths of a 5 mm step ranging 1000-2000 mm

Fixed range offers unlimited possibilities and solutions, which cover every need in aesthetic and functional level.

- Distinct collection of fixed configurations suitable for commercial and residential buildings.
- A choice of every combination of glass panels, rabote with glass, in oval or straight line, offers you limitless possibilities.
- The Fixed range is available in a number of variations of length, height and plans (subject to technical feasibility).
- Fast and easy construction and installation.
- Glasses are easily branded with vinyls of your logo or supplier's sponsor.
- A wide range of applications and colors choices (RAL, anodized and imitation wood finishes).





OUTDOOR *living*

PERGOLAS

Pergolas systems, in modern and traditional design, ensure absolute shading regulation and protection from solar radiation while offering unique aesthetic and energy upgrade.

In perfect harmony with the natural environment, ALUMINCO's Pergolas know no limits and make a stylish addition to every open space. Excellent for private houses, hotel units, restaurants and cafes for all seasons.



ARCHITECTURAL
SYSTEMS

RAILING
SYSTEMS

OUTDOOR
SYSTEMS

DOORS
PANELS

PHOTOVOLTIC
SYSTEMS

INDUSTRIAL
APPLICATIONS

ACTIVITIES
& SERVICES



OUTDOOR *living*

GATES & FENCES

Gates and fences offer you limitless possibilities whereas design and functionality flow together harmoniously, creating a lasting beautiful piece for any home entrance.

Designed to simplify life, with emphasis on the detail, combine the ideal solution for modern living and for buildings with demanding specifications.

Available in many designs and even more wonderful combinations, with unlimited color options, easy to assemble and fit without the need for systematic maintenance.



ARCHITECTURAL
SYSTEMS

RAILING
SYSTEMS

OUTDOOR
SYSTEMS

DOORS
PANELS

PHOTOVOLTAIC
SYSTEMS

INDUSTRIAL
APPLICATIONS

ACTIVITIES
& SERVICES





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