

Holz-ALU
Wood-ALU

Holz
Wood

PVC-ALU

ALU



Aluminium systems
WINDOWS | DOORS | FACADES

 **aluron**
ALUMINIUM SYSTEMS

ALURON

ALUMINIUM SYSTEMS

ALURON has been setting trends on the woodwork market in Poland and abroad since 2002. Creating innovative solutions and technologies in the windows, doors and complex aluminium systems industry has influenced the dynamic development of the company.

Investors, architects and joinery manufacturers appreciate the variety of construction solutions, materials, aesthetics, functionality and wide design options offered by ALURON.



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FUNCTIONALITY and comprehensiveness

Aluron brand systems have been created by designers with many years of experience in the field of aluminium systems. The company's solutions are distinguished by original utility models and patent applications. The aluminium systems offered by Aluron consist of profiles

(structural, drip caps, strips, sills), accessories (seals, screws, clips, plugs) and additional materials (templates, assembly elements and adhesives). All systems are interlinked to ensure that the components and accessories used are optimised.

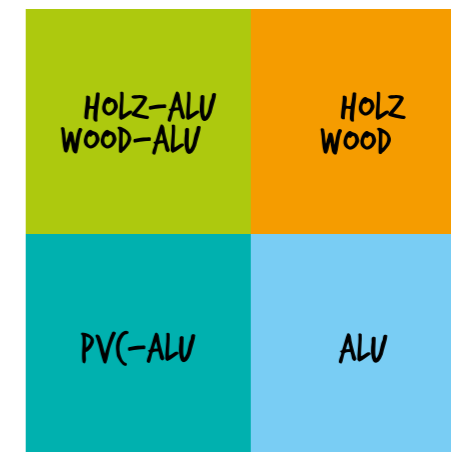
QUALITY and technology

Aluron has a production plant where the machinery park is based on energy-saving and efficient technological lines, limiting the negative impact on the environment. The company's system solutions meet stringent requirements for energy efficiency, comfort, functionality and safety. As part of its offer, Aluron makes curved and bent structures as well as welded and crimped joints, and offers a range of possibilities for non-standard and unusual solutions.

The company operates on the basis of global management and production standards, including: ISO 9001, ISO 14001, Qualicoat certification. Products are subjected to testing processes according to the latest regulations and standards issued by national and foreign certification bodies such as ITB, IFT Rosenheim, LTB, Passiv Hause. Aluron is a winner of prestigious awards such as: Solidna Firma, Teraz Polska, Gazele Biznesu, Diamenty Forbesa, Europejska Firma.

TOGETHER we set the course of development

Aluron is the only manufacturer in Poland with aluminium systems for every segment of the woodwork market. It is for this reason that it is referred to as an **ALU MULTISYSTEM CONSTRUCTOR**.



Aluron's aim is to provide a comprehensive service to its partners in terms of:

Complete systems for aluminium profiles, plastic components and accessories, comprising:

- profiles and accessories for the manufacture of wooden windows and doors: drip caps, strips, sills and thresholds,
- construction systems for wooden-aluminium windows, doors, facades and winter gardens, construction systems for the manufacture of plastic-aluminium windows and doors,
- construction systems for the manufacture of aluminium windows, doors, facades,
- software to support the construction and production processes,
- tooling: tools, presses, templates, cutters for wooden joinery.

Technological support and advice including:

- design and implementation of individual solutions (profiles and accessories),
- preparation of quotations,
- professional product and technical training,
- advice and service.

Services:













- painting in a modern powder paint shop, certified with the Qualicoat quality mark
- applying woodgrain coatings to the aluminium surface
- welding of aluminium profiles,
- extrusion of thermal breaks and seals,
- injection moulding of plastic and light metal parts,
- bending of aluminium profiles and sheets,
- machining with CNC machine tools,
- a measuring and testing laboratory to determine the level of waterproofness, air permeability or wind load of the tested structure.

Get to know
Aluron!





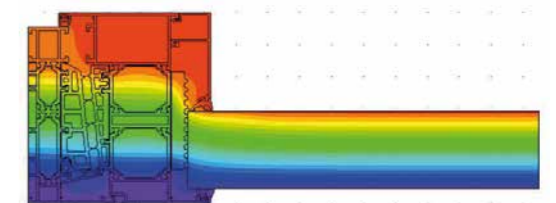
DESIGN & FUNCTIONALITY

-  Innovative 5-chamber technology to improve structural rigidity.
-  The window sash flushed with the frame from the outside.
-  Five thermal options available.
-  Two variants of hardware pusher: aluminum and PVC.
-  Option of designing large glazing adapted to modern architectural trends.
-  Cover for the fitting groove.
-  Option to design turn windows, turn-and-tilt windows, turn-and-tilt windows with movable mullion and tilt windows.
-  Lower profiles of leaves and low assemblies - more light.
-  A solution compatible with mosquito nets system from Aluron.
-  Elegant aluminium drain plugs in the color of the joinery.
-  Sash available in two hardware groove versions: ALU and PVC.
-  Possibility of crimping and doweling.

Five-chamber system for passive windows AS 110 PASSIV

The AS 110 PASSIV system is designed for the manufacture of windows, patio doors and display windows with the highest level of thermal insulation on the market.

There are up to five thermal variants on offer, including a passive variant certified at Passive House in Darmstadt. This is a state-of-the-art design for glazing with heavy 3-chamber packages. It allows the excellent static parameters of the sash to be maintained. The system has very high acoustic insulation.



Temperature distribution

SYSTEM CHARACTERISTICS

3500 mm	1700 mm	300 kg	110 mm	47-74.5 mm	119 mm	54 mm	32 mm
Max. sash height	Max. sash width	Max. sash weight	Frame depth	Glazing range	Depth of window sashes	Min. visible frame width	Min. visible sash width

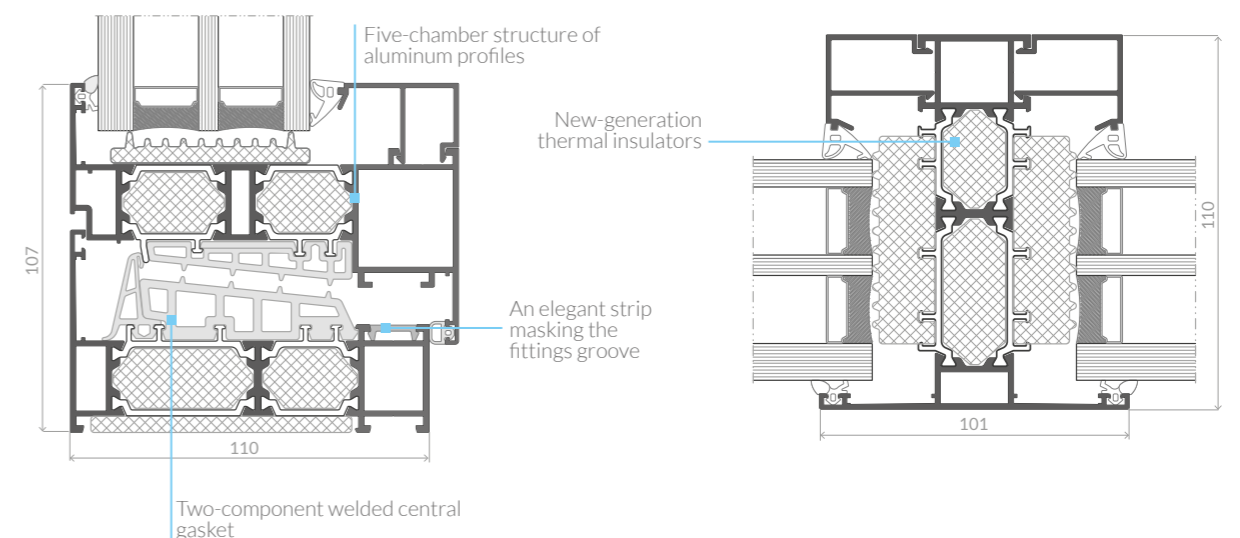
Section through opening window

Section through a fixed window mullion

SELECTED SYSTEM PARAMETERS

from 0.42 W/m²K	class E1950	class 4	class C5/B5	class 4
Thermal insulation Uw	Water tightness	Air permeability	Wind load resistance	Mechanical strength

*Full list of thermal variants of AS 110 Passiv available on page 68





DESIGN & FUNCTIONALITY

- 3** Three-chamber structure of aluminum profiles
- ASM** Solution compatible with system-designed mosquito net.
- Eye icon** Invisible window sash - from the outside of the building.
- Option icon** Option to design turn windows, turn-and-tilt windows, turn-and-tilt windows with movable mullion and tilt windows.
- 4** Four thermal options available.
- Option icon** Elegant aluminium drain plugs.
- Option icon** Option to design all-glass corners at any angle with adjustable connectors.
- Option icon** Option to integrate the system into modern smart home solutions.
- Option icon** Option to design arched structures, including welded ones.
- Option icon** A solution compatible with all Aluron systems.
- 2** Two variants of hardware pusher: aluminum and PVC.



Temperature distribution

Hidden sash window system AS 80US

An aesthetically pleasing solution for the construction of single and multi-paned windows.

It is dedicated to designs where the window sash is to be invisible from the outside of the building. Regardless of whether we are dealing with fixed or opening panels, all neighbouring windows look identical from the outside. The AS 80 US system is compatible with other Aluron aluminium systems.

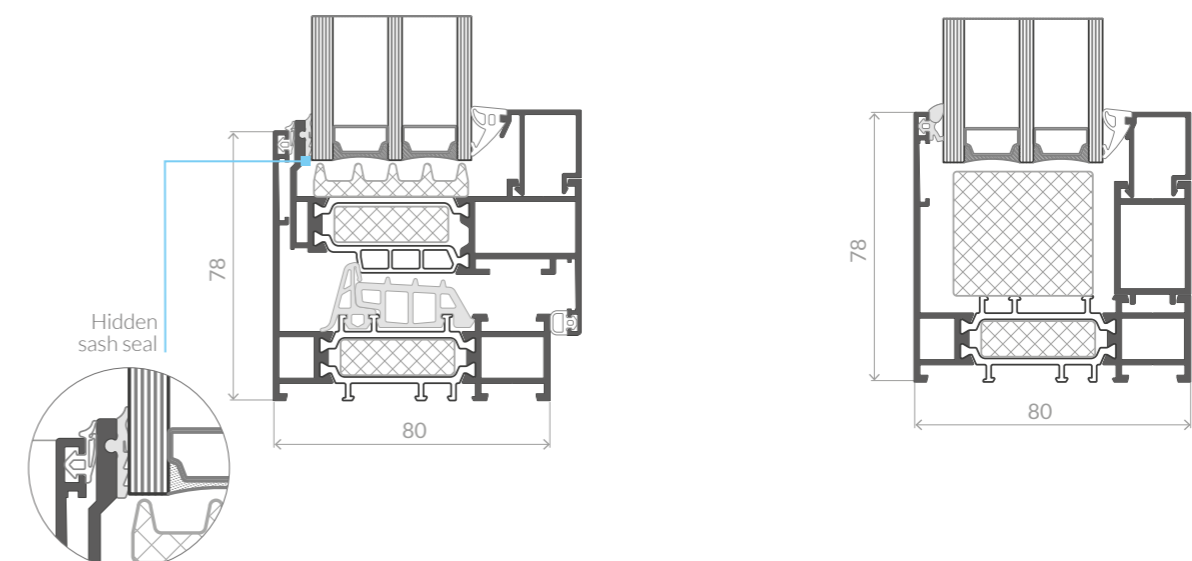


SYSTEM CHARACTERISTICS

2700 mm	1400 mm	200 kg	80 mm	21-68 mm	84 mm	78 mm
Max. sash height	Max. sash width	Max. sash weight	Frame depth	Glazing range	Window sash depth	Min. visible frame width

Section through an opening window with hidden sash

Section through the fixed panel of a window with hidden sash














SELECTED SYSTEM PARAMETERS

from 0.71 W/m²K*	class E 2400 Pa	class 4	class C3	4
Thermal insulation Uw	Water tightness	Air permeability	Wind load resistance	Thermal variants

*Full list of thermal variants of AS 80US Passiv available on page 71.



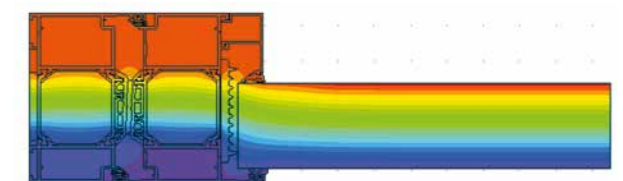
DESIGN & FUNCTIONALITY

-  Three-chamber structure of aluminum profiles.
-  The door leaf flushed with the frame on both sides.
-  Possibility to use modern hidden, roller and surface hinges.
-  Option to construct doors opening inward and outward.
-  Option of designing single- and double-leaf doors as well as doors with side and top transom lights.
-  Easy assembly and prefabrication.
-  Optimisation of the system accessories used.
-  A solution compatible with all Aluron systems.
-  The system is designed for constructing doors with infill in the form of insulating glass or non-transparent panel.
-  System-integrated aluminium substructure for easy assembly and improved thermal insulation.
-  Elegant aluminium drain plugs.

Door system AS 100

The AS 100 three-chamber system is designed for the construction of thermally insulated displays and doors with high performance properties. The solution ensures excellent thermal and acoustic insulation of the created external development, while guaranteeing simplicity of execution.

The system is available in three thermal variants, making it easy to design structures to the thermal insulation parameters required for the design. The excellent thermal performance of the solution also translates into lower costs incurred for heating.



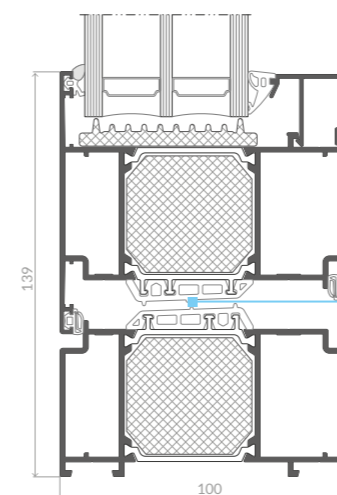
Temperature distribution

SYSTEM CHARACTERISTICS

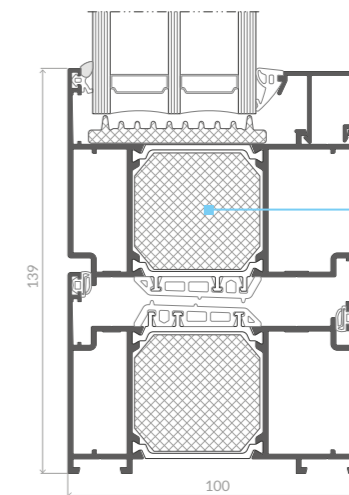
3000 mm	1400 mm	280 kg	100 mm	37-68 mm	139 mm	69 mm
Max. leaf height	Max. leaf width	Max. leaf weight	Door profile depth	Glazing range	Composition frame and leaf	Min. visible frame width

Section through doors opening outwards

Section through doors opening inwards



Central gasket ensuring thermal and acoustic insulation



Modern thermal insulators













SELECTED SYSTEM PARAMETERS

from 0.7 W/m²K*	class 4	E750 Pa	class C5
Thermal insulation Ud	Air permeability	Water tightness	Wind load resistance

*Full list of thermal variants of AS 100 available on page 69



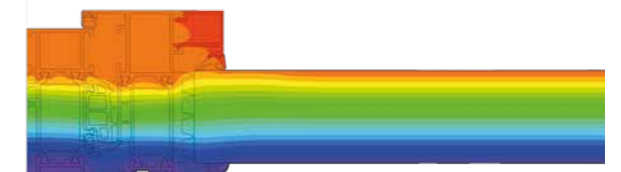
DESIGN & FUNCTIONALITY

-  Low balcony threshold in turn-and-tilt windows, turn-and-tilt windows versions with continuous perimeter sealing.
-  Option of designing arched constructions, including welded ones.
-  All-glass corner.
-  Available solutions: all-glass corner and stepped glass window.
-  Four thermal options available.
-  The AS 75 INDUSTRIAL window variant characterised by a special industrial design, complemented by system bars in a flat or spatial version.
-  Production optimisation through use of the same fasteners and seals.
-  System compatible with intelligent house solutions.
-  Option to design turn windows, turn-and-tilt windows, turn-and-tilt windows with movable mullion and tilt windows.
-  Two variants of hardware pusher: aluminum and PVC.
-  Cover for the fitting groove.
-  Elegant aluminium drain plugs.

Window and door system AS 75 WINDOW

The AS 75 three-chamber system is designed for the manufacture of thermally insulated window and balcony door structures.

The robust construction, durability of the aluminium and rich design guarantee many years of durability and aesthetics. The system meets the requirements of all current and future thermal and acoustic insulation standards, as confirmed by certificates from renowned research institutes.



Temperature distribution

SYSTEM CHARACTERISTICS

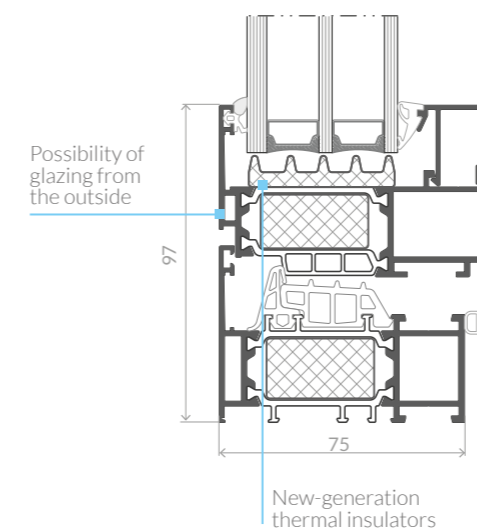
3000 mm	1600 mm	200 kg	75 mm	16-66 mm	46 mm	33 mm
Max. sash height	Max. sash width	Max. sash weight	Installation depth	Glazing range	Min. visible frame width	Min. visible sash width

SELECTED SYSTEM PARAMETERS

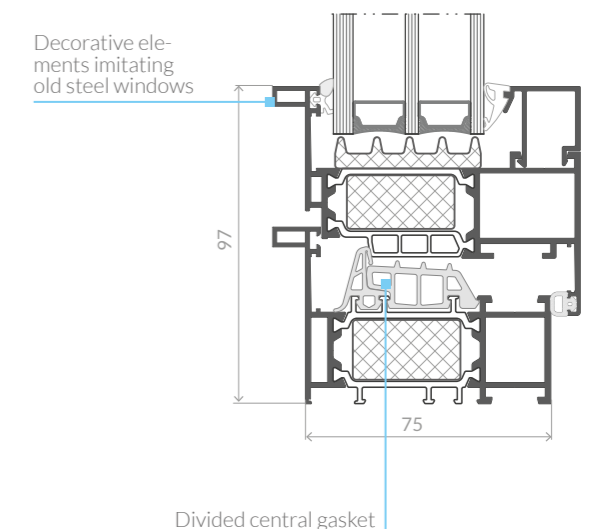
from 0.67 W/m²K*	class RC2, RC3	class 4	class E1950	class C5	47(-2;-6) dB
Thermal insulation Uw	Burglar resistance	Air permeability	Watertightness	Resistance to wind load	Sound insulation

*Full list of thermal variants of AS 75 WINDOW available on page 69

Section through opening window












Section through an INDUSTRIAL window





DESIGN & FUNCTIONALITY

-  Compatible with facade systems: AF 50, AF 50S, AF 50KW Quantum and ATF 50.
-  Two leaf widths to choose from: 180 and 220 mm
-  Designed for structures up to 3000 mm high.
-  Drainage is carried out in the lower part of the profile using a system aluminum end plug.
-  Two variants of hardware pusher: aluminum and PVC.
-  Possibility of using hidden fittings from Sobinco and Roto brands.
-  Dedicated, original sash plugs.
-  Effective ventilation of rooms.
-  Production optimization – using the same gaskets and fasteners.

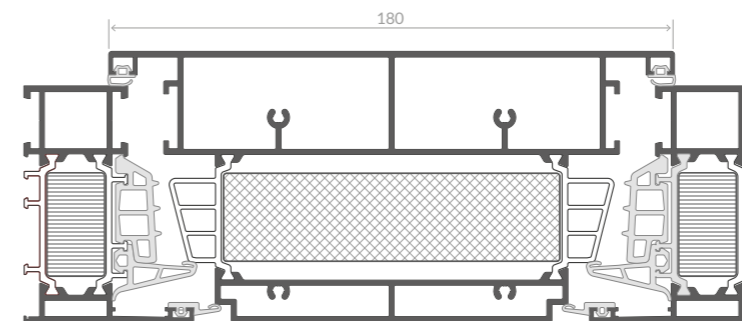
Ventilation window sash AS 75V

The AS 75V system is intended for the construction of ventilation sashes used in connection with a facade or showcases.

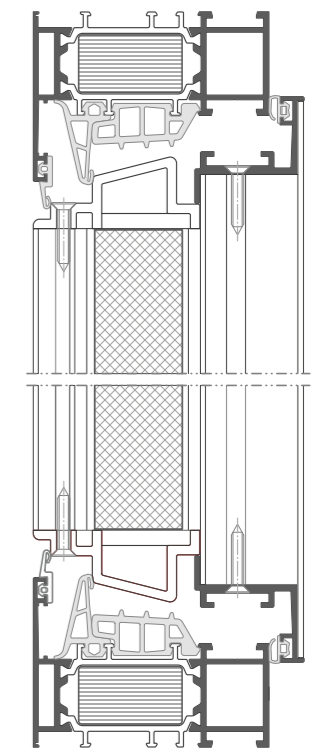
These types of structures are used instead of standard windows. They ensure free air circulation and constitute an attractive architectural element. The solution is structurally based on the popular Aluron AS 75 window system, which guarantees optimization of the materials used (e.g. common frame). AS 75V allows the creation of tall structures equipped with a ventilation sash opening inwards.



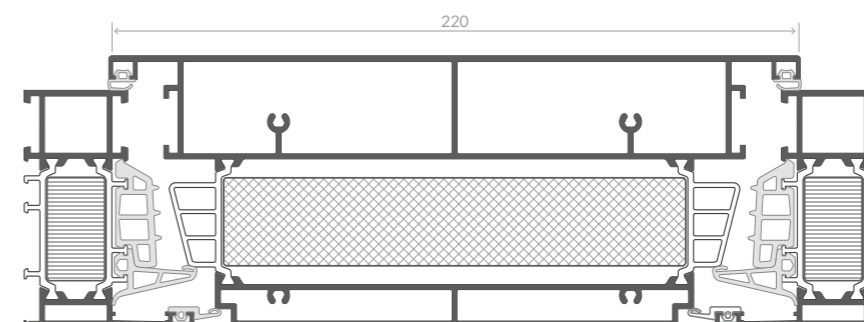
Horizontal cross-section through the ventilation sash 180



Vertical cross-section through the ventilation sash



Horizontal cross-section through the ventilation sash 220















SELECTED SYSTEM PARAMETERS

from 0.9 W/m ² K	class C5/B5	class 4	E1500	3000 mm	180 mm, 220 mm	75 mm
Thermal insulation Uw	Resistance to wind load	Air permeability	Watertightness	Max. sash height	Available sash widths	Frame depth



Moderna Powiśle Apartments in Warsaw

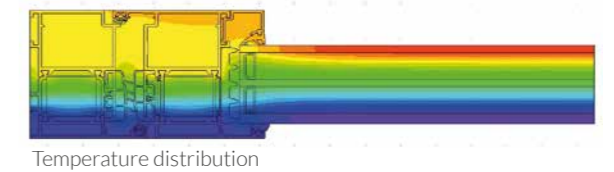
DESIGN & FUNCTIONALITY

-  Three-chamber structure of aluminum profiles.
-  The door leaf flushed with the frame on both sides.
-  Four thermal options available.
-  Option to equip the door with surface, roller or hidden hinges.
-  A solution compatible with the system-designed mosquito net.
-  Modern full-depth threshold and aluminium substructure solution.
-  Possibility of constructing emergency doors: emergency and panic doors.
-  Twelve door designs available.
-  Elegant aluminium drain plugs.
-  System equipped with proprietary ecological TPE seals.
-  Option to integrate the system into modern smart house solutions.
-  Manufacturing optimisation through the use of the same fasteners and seals.

Window and door system AS 75 DOOR

The solution is used to construct thermally insulated doors that are resistant to deformation caused by large temperature differences between the inside and outside environment thanks to the use of anti bi-metal dividers.

The three-chamber AS 75 system meets all the stringent legal requirements for thermal and acoustic insulation, thanks in part to the use of new-generation thermal insulators.

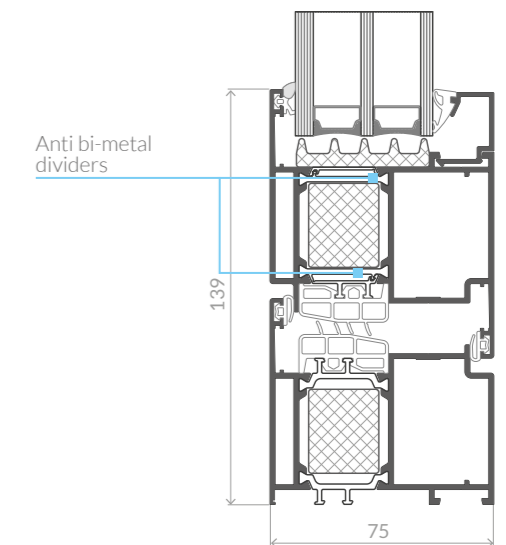
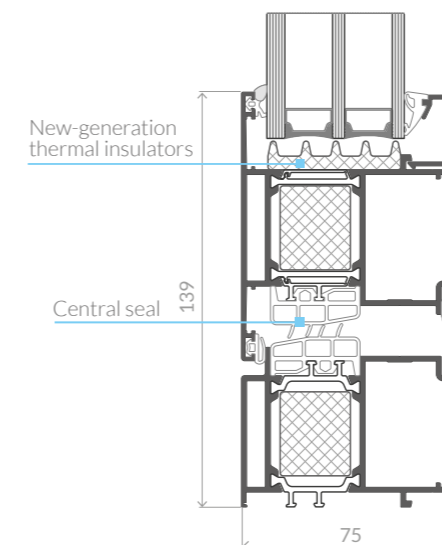


SYSTEM CHARACTERISTICS

3000 mm	1400 mm	200 kg	75 mm	17-57 mm	69 mm	65 mm
Max. leaf height	Max. leaf width	Max. leaf weight	Door profile depth	Glazing range	Min. visible frame width	Min. visible leaf width

Section through doors opening outwards

Section through doors opening inwards



SELECTED SYSTEM PARAMETERS

from 0.93 W/m²K*	class RC2, RC3	class 4	class E1200	class C2	41(-1;-5) dB	class 3
Thermal insulation Ud	Burglar resistance	Air permeability	Watertightness	Wind load resistance	Acoustics	Use class

*Full list of thermal variants of AS 75 DOOR available on page 70



DESIGN & FUNCTIONALITY

- 3** Three-chamber structure of aluminum profiles.
- 4** Four thermal options available.
- LED** New recessed handle solution with integrated LED lighting.
- Hinge** Option of individual designs and panel patterns - shape and hole milling.
- Hinge** Available types of hinges: surface, roller and hidden hinges.
- Lock** Multipoint locks as standard, availability of electromotor locks.
- IN & OUT** Doors opening inwards and outwards.
- Door** Option of constructing single- and double-leaf doors with side or top transom light.
- Panel** Panels available in non-transparent with transparent elements and all-glass versions.
- GLASS LINE** Available in the GLASS LINE version with an all-glass panel.

Panel door system AS 75P

A three-chamber system designed for the prefabrication of thermally insulated doors fitted with a panel glued over the entire leaf surface.

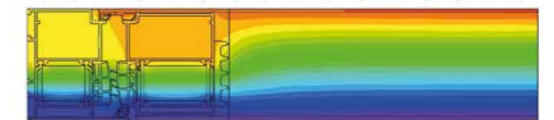
It looks perfect in both modern and classic buildings. Panel doors in the AS 75P system are intended for individual and shopfront applications. Robust workmanship, durability of aluminium and a rich design guarantee many years of durability and aesthetics.



Aluminium decorative slat



Ergonomic recessed handle with LED strip



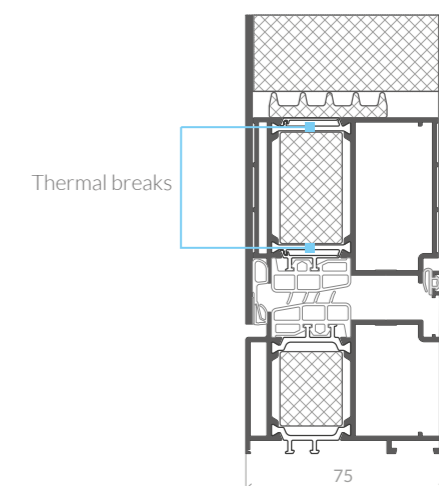
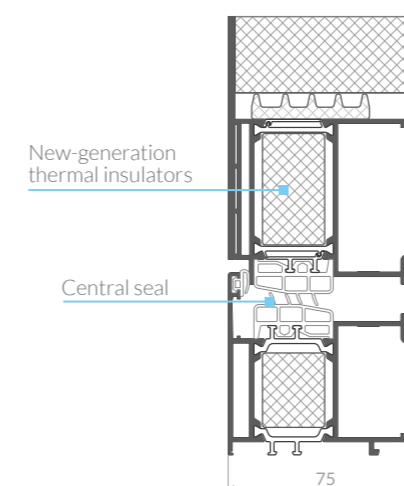
Temperature distribution

SYSTEM CHARACTERISTICS

3000 mm	1400 mm	250 kg	75 mm	70 mm, 72 mm	75 mm
Max. leaf height	Max. leaf width	Max. leaf weight	Frame depth	Leaf depth	Max. panel thickness

Section through doors opening inwards

Section through doors opening outwards



SELECTED SYSTEM PARAMETERS

from 0.82 W/m²K	class 4	class E900 PA	class C3	class 3
Thermal insulation Ud	Air permeability	Watertightness	Wind load resistance	Use class

AVAILABLE DOOR PANEL DESIGNS

We provide a wide selection of beautiful door panels. Regardless of your preferred style, we offer the opportunity to obtain the perfect product thanks to various configurations of structure, equipment and panel colors. Whether you prefer a modern style or you are a fan of traditional forms, you can get the perfect product thanks to the different configurations of structure, fittings and colours of the panels.

STANDARD COLLECTION



MODEL APD 01
Colour: ACC2 or RAL
Applications: Flush stainless steel



MODEL APD 02
Colour: ACC2 or RAL



MODEL APD 03
Colour: ACC2 or RAL
Applications: Flush stainless steel



MODEL APD 04
Colour: ACC2 or RAL
Applications: Flush stainless steel



MODEL APD 05
Colour: ACC2 or RAL



MODEL APD 06
Colour: ACC2 or RAL
Applications: Flush stainless steel



MODEL APD 07
Colour: ACC2 or RAL
Applications: Flush stainless steel



MODEL APD 08
Colour: ACC2 or RAL
Applications: Milled



MODEL APD 09
Colour: ACC2 or RAL
Applications: Flush stainless steel



MODEL APD 10
Colour: ACC2 or RAL
Applications: Milled



MODEL APD 11
Colour: ACC2 or RAL
Applications: Milled



MODEL APD 12
Colour: ACC2 or RAL
Applications: Milled



MODEL APD 13
Colour: ACC2 or RAL
Applications: Flush stainless steel, milled



MODEL APD 14
Colour: ACC2 or RAL



MODEL APD 15
Colour: ACC2 or RAL
Applications: Flush stainless steel



MODEL APD 16
Colour: ACC2 or RAL
Applications: Flush stainless steel



MODEL APD 17
Colour: ACC2 or RAL

PREMIUM COLLECTION



MODEL APD 18
Colour: ACC2 or RAL



MODEL APD 19
Colour: ACC2 or RAL
Applications: Flush stainless steel



MODEL APD 20
Colour: ACC2 or RAL
Applications: Milled



MODEL APD 21
Colour: ACC2 or RAL
Applications: Black glass



MODEL APD 22
Colour: ACC2 or RAL
Applications: Black glass, milled



MODEL APD 23
Colour: Black glass



MODEL APD 24 BLACK
Colour: ACC2 or RAL
Applications: Black



MODEL APD 25 BLACK
Colour: ACC2 or RAL
Applications: Black



MODEL APD 26
Colour: ACC2 or RAL
Applications: Horizontal milling



MODEL APD 27
Colour: ACC2 or RAL
Applications: Milled



MODEL APD 28
Colour: ACC2 or RAL
Applications: Classic-style aluminium frames



MODEL APD 29
Colour: ACC2 or RAL
Applications: Aluminium retro designs with classic style frames

LUXURY COLLECTION



MODEL APD 30
Colour: ACC2 or RAL
Applications: 3D vertical slats in Decoral Winchester colour



MODEL APD 31
Colour: ACC2 or RAL
Applications: Black glass / 3D vertical slats in Decoral Winchester colour



MODEL APD 32
Colour: ACC2 or RAL
Applications: 3D vertical slats in Decoral Winchester colour











MODEL APD 33 CORTEN
Material: sintered quartz
Colour: Corten
Applications: 3D stainless steel



MODEL APD 34
Colour: Everest natural stone



DESIGN & FUNCTIONALITY

-  Option of using as an internal structure in two colours.
-  Option of constructing a feed window in the door.
-  Can be used as a partition in winter gardens.
-  Narrower frame at the notch hinge to increase the passage light.
-  Two variants of hardware pusher: aluminum and PVC.
-  Self-cleaning glazing area.
-  Possibility to use notch and surface hinges in doors.
-  Option of designing curved constructions, including welded constructions
-  Elegant aluminium drain plugs.



Window and door system for external installation **AS 52**

Thermally insulated AS 52 system is designed for lightweight, aluminium structures with high performance properties for exterior installation.

Designed with the concept of downsizing, the AS 52 System provides excellent optimisation of the profiles used.

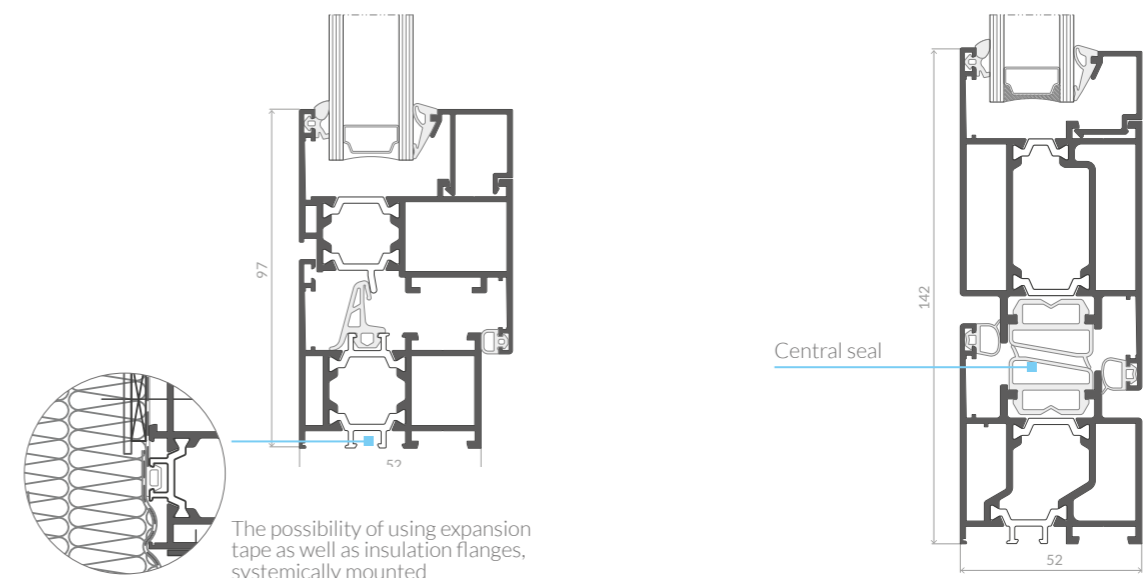


SYSTEM CHARACTERISTICS

52 mm	61 mm	52 mm	2-42.5 mm	2-33.5 mm
Depth of window/door frame	Depth of window sash	Depth of door leaf	Glazing range of window construction	Glazing range of door construction

Opening window section

Section of door opening inward




SELECTED SYSTEM PARAMETERS

from 1.55 W/m ² K	from 1.06 W/m ² K	class 4	E 1350	class A5	class C3	class C1
Thermal insulation of door Ud	Thermal insulation of window Uw	Air permeability	Watertightness of window constructions	Watertightness of door constructions	Wind load resistance of window constructions	Wind load resistance of door constructions



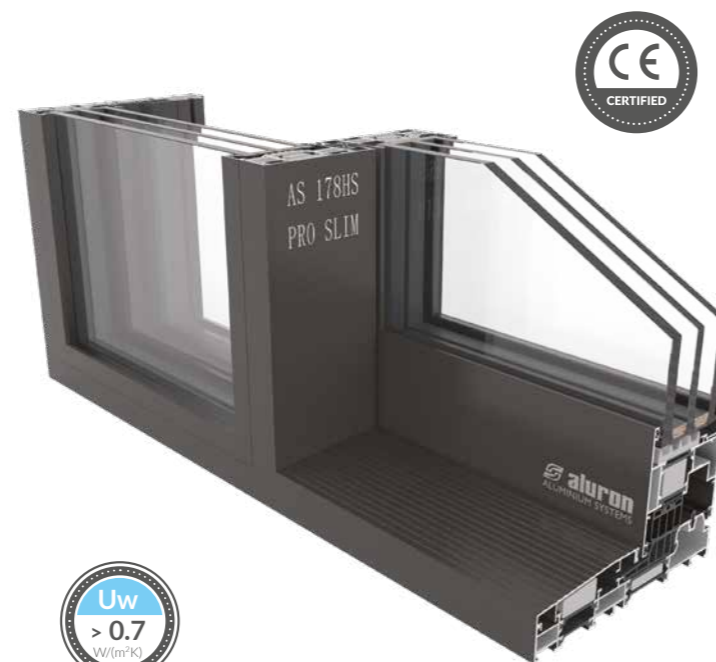
DESIGN & FUNCTIONALITY

-  Option of constructing structures in all fitting patterns.
-  Solutions of all-glass corners and opening corners without a mullion.
-  The solution of a narrow mullion: ultra variant - 25 mm, slim variant - 50 mm.
-  Option to automate leaf movement.
-  A solution compatible with the Aluron AS M system mosquito net.
-  Multi-fold constructions based on a two and three-track frame.
-  The solution of a low, warm threshold.
-  Available in GLASS LINE version with all-glass cladding.
-  Most profiles cut straight. 10% shorter prefabrication time.
-  Narrow built-in profiles and crimp joints of the aluminium frames.
-  Option of integrating the door frame completely into the thermal insulation layer.
-  Easier installation of the door leaf. Temperature distribution in the frame.

Lift and slide door system AS 178HS PRO SLIM

The solution is used to construct a new generation of large-format, all-glass overhead sliding doors dedicated to residential buildings and other projects where ease of use and movement play an important role.

The ANTI-BI-METAL technology used as standard ensures durability and proper functioning irrespective of significant temperature differences inside and outside the room, while the flat door bolt strikers guarantee aesthetics and user safety. The solution is an alternative to expensive narrow-profile designs.



SELECTED SYSTEM PARAMETERS

from 0.7 W/m²K	class 4	class E1200	class C3/B3	class RC2	45(-2;-7) dB
Thermal insulation Uw	Air permeability	Watertightness	Resistance to wind load	Burglar resistance	Acoustics

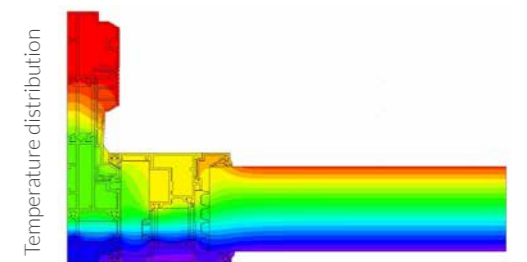
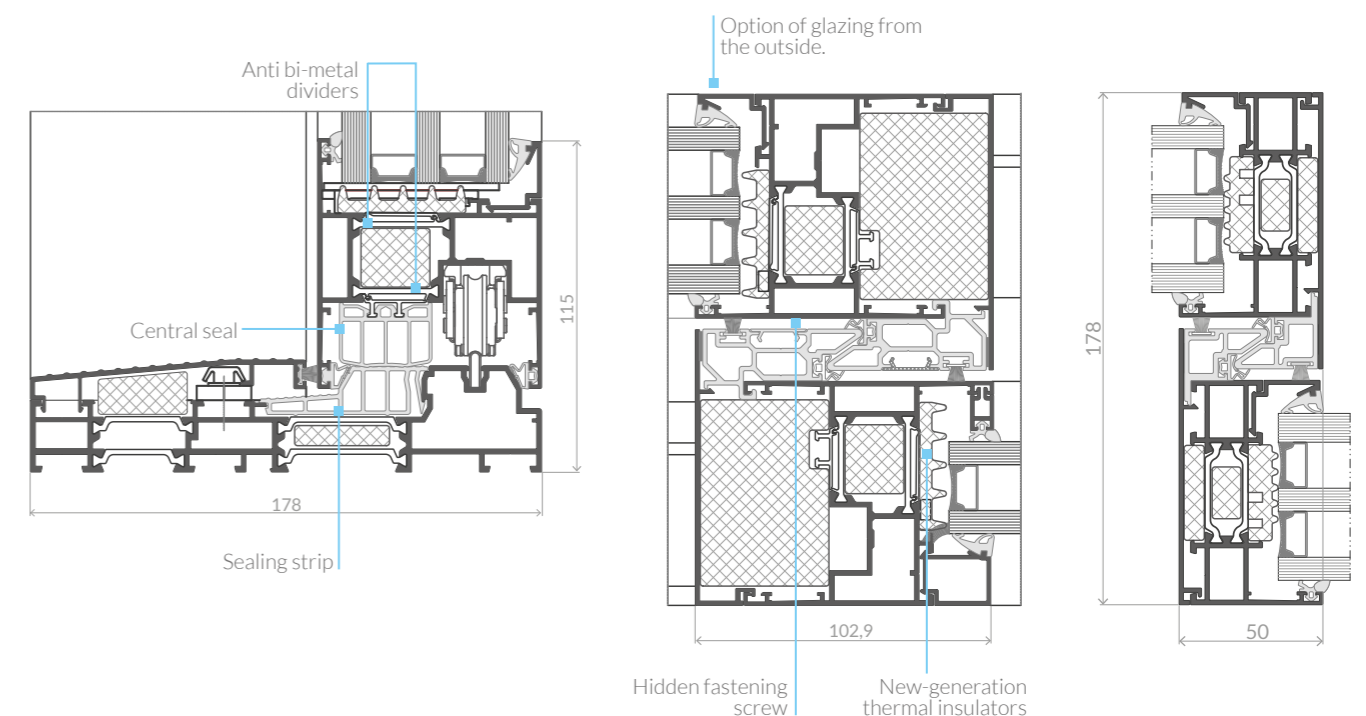
SYSTEM CHARACTERISTICS

3300 mm	3300 mm	600 kg	37 mm	25 mm / 50 mm	59 mm	78 mm
Max. leaf height	Max. leaf width	Max. leaf weight	Min. visible frame width	Narrow mullion	Max. glazing packet thickness	The depth of sash

Section through sliding door at floor level










Section through centreline labyrinth

Slim-line variant





DESIGN & FUNCTIONALITY

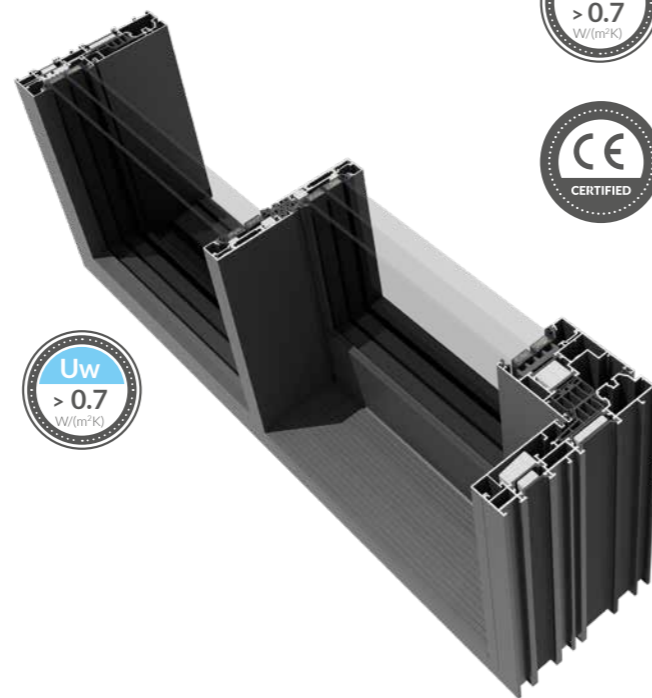
-  Option of constructing structures in all fitting patterns.
-  The solution of a narrow mullion - 25 mm.
-  Possibility of integration with a smart home system for management via smartphone and/or touch panel.
-  A wide range of fittings from renowned suppliers: Siegenia, G-U, HAUTAU, MACO.
-  It is possible to equip the sliding doors in Ultra variant with elegant, multi-colored LED lighting.
-  Standard way of installing glass. The glass is glued to only one edge of the narrow mullion profile.
-  Possibility to hide the door frame in the insulation layer.
-  Possibility of making a pocket door sliding structure using standard components of the AS 178HS PRO SLIM system.
-  Possibility of constructing all-glass corners at an angle of +/- 90 degrees.

Lift and slide door system AS 178HS PRO SLIM in ULTRA variant

The first minimalist solution for HST doors. The new ULTRA variant of the AS 178HS PRO SLIM system was created as an alternative to complicated and expensive narrow-profile solutions.

It is used to construct large-size lift-and-slide doors with the narrowest center post available on the market, which is only 25 mm. The ULTRA variant is an ideal solution for customers who expect a unique, minimalist design in an economical version.

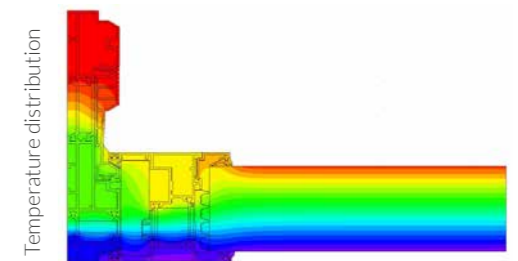
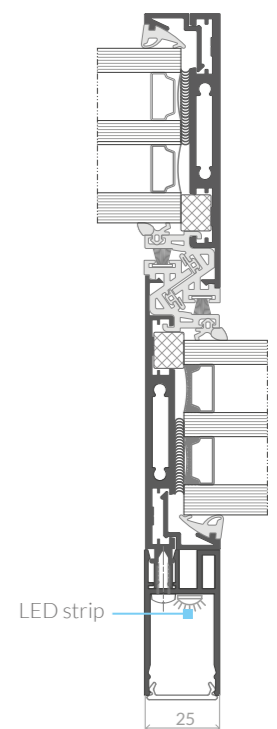
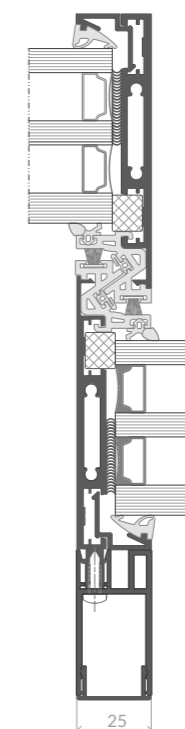
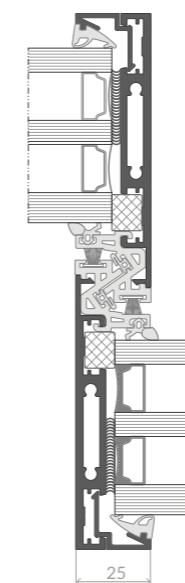
The system is distinguished by its versatility and high performance quality thanks to the use of a tight labyrinth strip, modern TPE gaskets and ANTI-BI-METAL technology that prevents door deformation due to significant temperature differences.



SYSTEM CHARACTERISTICS

3300 mm	3300 mm	600 kg	37 mm	25 mm	59 mm	78 mm
Max. leaf height	Max. leaf width	Max. leaf weight	Min. visible frame width	Narrow mullion	Max. glazing packet thickness	The depth of sash

Basic version Version with a static box Version with LED backlight










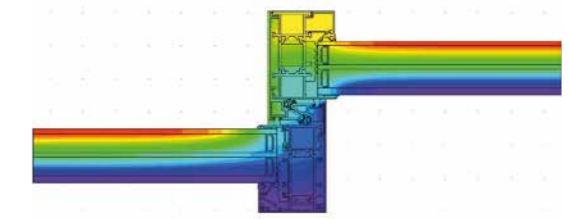
SELECTED SYSTEM PARAMETERS

from 0.7 W/m²K	class 3	class 8A	class C3/B3
Thermal insulation Uw	Air permeability	Watertightness	Resistance to wind load



DESIGN & FUNCTIONALITY

-  Available in a narrow leaf joint version - the smallest visible width on the market.
-  Stepped glass version - all-glass system solution.
-  System accessories for correct leaf suspension with up-and-down adjustment of the leaf position.
-  Elegant aluminium drain plugs
-  Standard leaf guide and variant with bottom linear guide.
-  Option of sealing type: brush or seal.
-  All commercially available automatics can be used.



Temperature distribution

Automatic door system AS AD



A state-of-the-art solution for the construction of premium automatic sliding doors with the smallest visible aluminium width.

The basis of the system consists of aluminium sections with a thermal divider ensuring excellent thermal insulation of the entire structure. The system meets the requirements of PN EN 16005, which guarantees a secure locking. The doors have been tested in accordance with EN 16361.

The AS AD system allows for creation of HS door schemes:

- Self-contained construction
- Wall-mounted
- Connection to the mullion-transom facade.

SYSTEM CHARACTERISTICS

2000 mm	200 kg	2	50 mm	75 and 52 mm
Max. leaf width	Max. leaf weight	Sealing variants	Depth of sliding leaf without thermal insulation	Depth of sliding leaf with thermal insulation

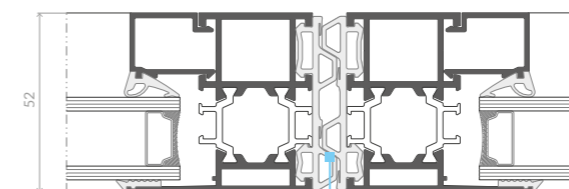
Standard variants of AS AD system:

- Displays installation AS 75AD - sliding part AS 75AD
- Displays installation AS 75AD - sliding part AS 52AD
- Displays installation ACS 50AD - sliding part ACS 50AD

SELECTED SYSTEM PARAMETERS

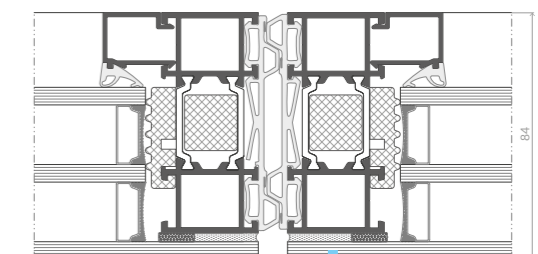
from 0.8 W/m ² K	PPD 2	class E 250Pa	PPD4 class C deflection	+/-600 Pa
Thermal insulation Uw	Air permeability	Water tightness	Wind load resistance	Safety test

Centre section through automatic door



Labyrinth gasket to prevent heat loss and blow-by

Centre section through automatic door - all-glass variant AS 75AD













Elegant variant with glued glass



Apartamenty Zamkowe in Rzeszów

DESIGN & FUNCTIONALITY

-  Only 6 mm in the visible frame - maximum glass door light.
-  Slimline design - 38 mm wide mullions.
-  Compatible with ACS 50 aluminium door.
-  Extensive range of external clips to improve statics.
-  Easy and quick prefabrication thanks to straight-cut profiles.
-  Easy and quick prefabrication even under construction conditions.
-  Electrical wiring can be routed in the profile.
-  Option to install infills with a wide range of thickness.
-  Integration with manually or automatically controlled inter-glazing blinds.
-  Option for use in A-class office buildings.

Acoustic partition walls system ACS 38

The ACS 38 system is used to construct stylish and slender aluminium walls, displays and interior partitions without thermal insulation with superior sound insulation.

The solution makes it possible to use a variety of door constructions using the narrowest slim frames and to create rooms with self-supporting canopies, so-called boxes. The system shows high utility and aesthetic properties. It shares the National Technical Assessment with the ACS 50 system.

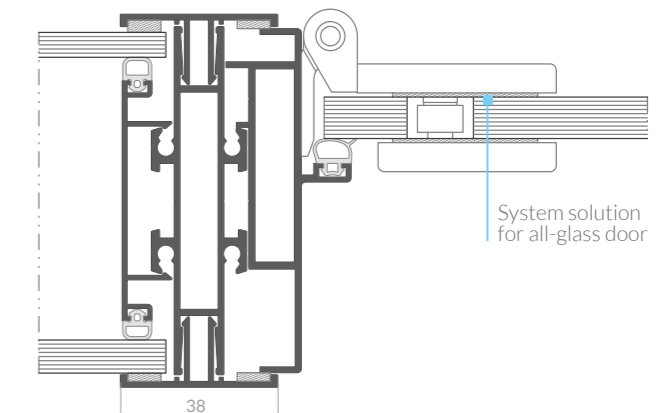
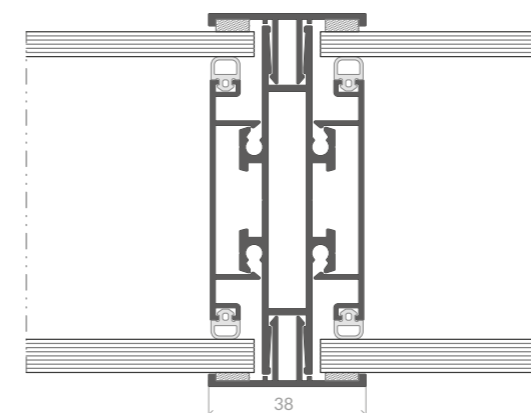


SYSTEM CHARACTERISTICS

6 mm	38 mm	5300 mm	up to 6,0 m ²	up to 2500 mm	5-13 mm	5-84 mm
Min. visible frame width	Profile construction width	Max. wall height	Max. area of glazing unit	Vertical mullion spacing	Glazing range	Thickness range for non-transparent infills

Horizontal section through the wall

Horizontal section with all-glass doors











SELECTED SYSTEM PARAMETERS

up to 52 dB	up to 46 dB	0.01 m ³ (mhdPa) ^{2/3}	class C3/B3	cat. IVb according to ETAG 003
Sound insulation performance for non-transparent versions	Sound insulation performance for transparent versions	Air tightness	Resistance to wind load	Range of application



DESIGN & FUNCTIONALITY

-  Optional application of an infeed window in the door.
-  Option of making arched windows and doors including welded constructions.
-  Option of making escape doors: emergency and anti-panic.
-  A diverse range of mullion variants in the construction of internal partitions and the freedom to create angled connections.
-  Compatible with intelligent building solutions.
-  Option of making walls at any angle and large-scale constructions.
-  Surface and rebate hinges increasing the passage clearance.
-  Option of making smoke-proof doors.

Window and door system for interior installation **ACS 50**

The solution is designed to make non-thermally insulated partitions such as displays, windows and aluminium and all-glass single or double-leaf doors.

The central glazing combined with the all-glass door solution provides exceptional design aesthetics. The doors are fitted with a central seal to improve their tightness and sound insulation. The system is characterised by its durability and high acoustic properties. It shares the National Technical Assessment with the ACS 38 system.



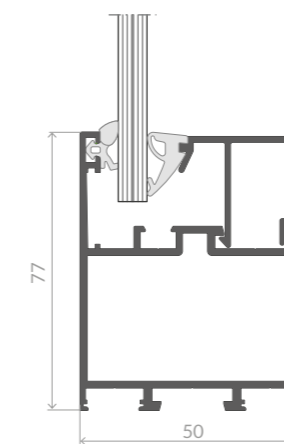
SYSTEM CHARACTERISTICS

50 mm	5300 mm	up to 40.5 mm	59 mm	up to 31.5 mm
Structural depth of frame profiles	Max. wall height	Glazing range	Structural depth of leaf profiles	Glazing bar height

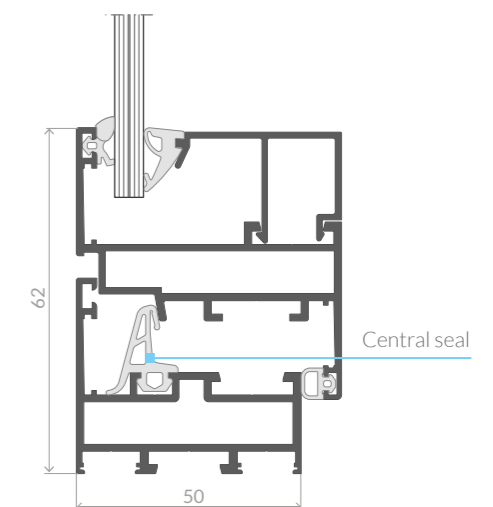
Based on the ACS 50 system, can be constructed:

- partitions with or without mullions
- all-glass sash
- sliding door

Section through fixed frame



Section through opening window















SELECTED SYSTEM PARAMETERS

cat IVb according to ETAG 003	class 3	class Sa, Sm	0.01 m ³ (mhdaPa) 2/3	28 dB	up to 38 dB
Application range	Mechanical strength of the door	Smoke tightness [single point locking]	Resistance to air infiltration	Acoustic insulation of threshold-free laboratory door	Door sound insulation



DESIGN & FUNCTIONALITY

-  Available in all construction patterns.
-  System compatible with ACS 50.
-  Option of central infill positioning in the leaf.
-  Solution compatible with the system-designed AS M mosquito net.
-  Option of single-point lock on the inside.
-  Two types of construction seal with leaf: standard version with brush and version with special two-component slide seal.
-  Leaf height adjustable by +/- 2.5 mm using special bogies.
-  Two variants of door frame drainage.
-  Several variants available for embedding the threshold in the floor.
-  No milling required for bogies.
-  A variant of a recessed handle from the outside.
-  Low threshold for all types of door frames ensuring comfort and safety.

Sliding door system ACS 50 COLD SLIDE

The system is used to construct sliding doors used as partitions in internal or external installations that do not require thermal insulation.

The solution is ideal for structures such as winter gardens and verandas. The system ensures optimisation of the materials used thanks to the application of the same sections and accessories that are used in the case of the classic ACS 50 solution. The system provides a number of conveniences that reduce the time of prefabrication and assembly. The process of glazing the leaves can be carried out on site after the structure has been fitted into the building opening.

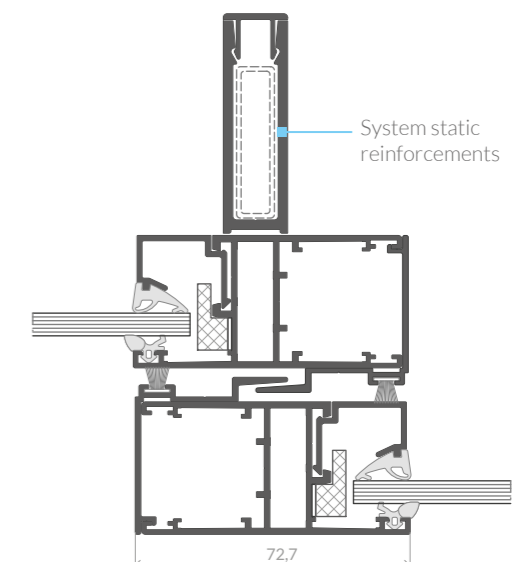
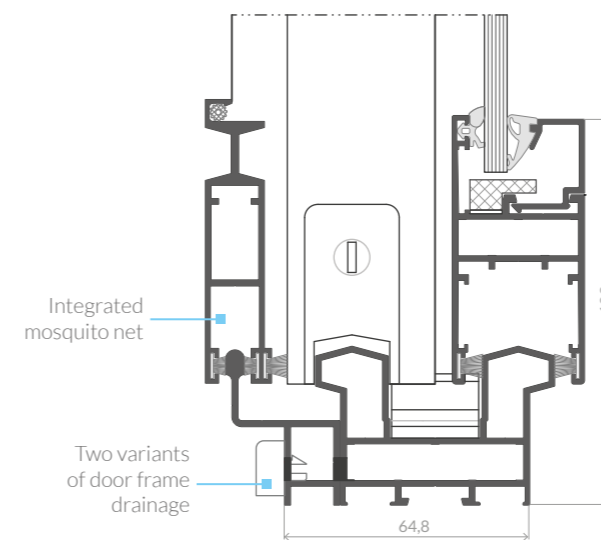


SYSTEM CHARACTERISTICS

2500 mm	2000 mm	120 kg	4-18 mm	35 mm	12.5 mm	50 mm	94 mm
Max. construction height	Max. leaf width	Max. leaf weight	Glazing range	Leaf depth	Min. visible frame width	Construction depth for 2-way version	Construction depth of the 3-way version

Section through a sliding door at floor level

Section through the labyrinth with reinforcement












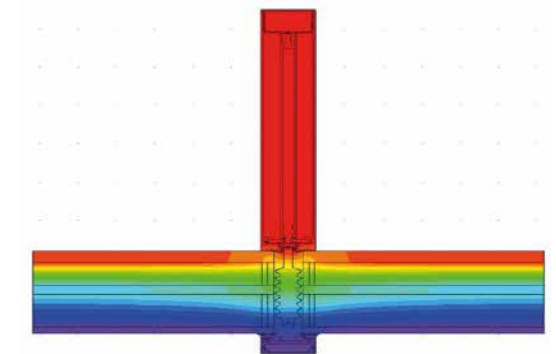
SELECTED SYSTEM PARAMETERS

class 3	class A3	class 4A
Air permeability	Resistance to wind load	Waterproofing



DESIGN & FUNCTIONALITY

-  Free arrangement of the photovoltaic cells: in a regular pattern or in different patterns.
-  Electricity production, reducing costs for air conditioning.
-  Glazing from the outside and inside.
-  Access to photovoltaic panels from the inside of the structure in case of failure.
-  Profiles and gaskets flushed from the inside of the facade.
-  Ultra-thin chemically toughened glass just 0.85 mm thick encapsulating the cells.
-  Full optimisation of the profiles used thanks to mullion-to-mullion construction.
-  Installation cabling located inside the structure.
-  Proprietary Energy Management System to monitor energy yields and control technical condition of infill panels.



Temperature distribution

Zero-energy facade AF 50KW QUANTUM

An innovative solution that was developed in response to investors' expectations during the energy crisis.

It is designed to make thermally insulated aluminium building facades using active photovoltaic infill. The appropriate design of the partition and the use of all system components make it possible to achieve a zero-energy structure, giving the possibility of fully balancing the gains and energy losses of the facade.

Examples of AF 50KW QUANTUM infills:

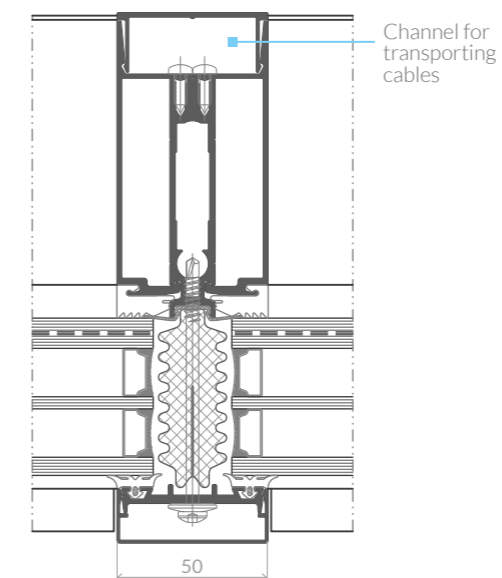
- silicon cells: bifacial, mono-Si, poli -Si, BackContract,
- photoelectrochemical cells (DSSC),
- quantum dots (QDOT) ensuring transparency of infills.



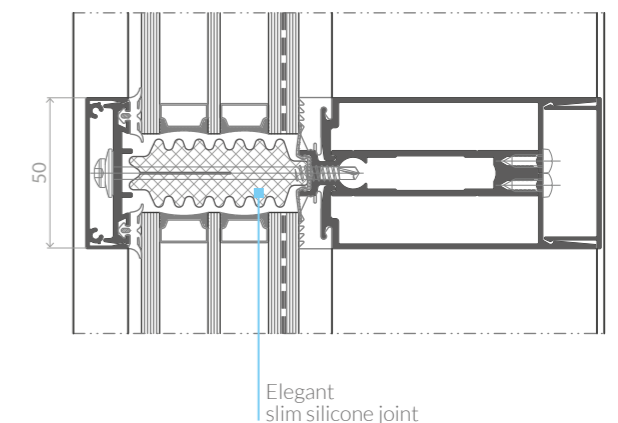
SYSTEM CHARACTERISTICS

from 0.5 W/m²K	180 W/m²	400 kg	67 mm	50 mm
Thermal insulation of active infill	Max. power rating of 1m² of infill	Max. infill weight	Max. infill thickness	Width of mullion and transom sections

Section through the mullion



Section through transom



SELECTED SYSTEM PARAMETERS










class AE 2400 Pa	class RE 2400 Pa	class RE 2400 Pa	class 2400 Pa	+/- 3600 Pa	class E5/I5	class 5 (950 mm/466 kJ)
Air permeability wall with and without window	Water tightness wall without window	Water tightness wall with window	Wind load resistance	Safety test	Impact resistance 2-chamber double-glazed window	Exposure category A





ZANA Center in Lublin

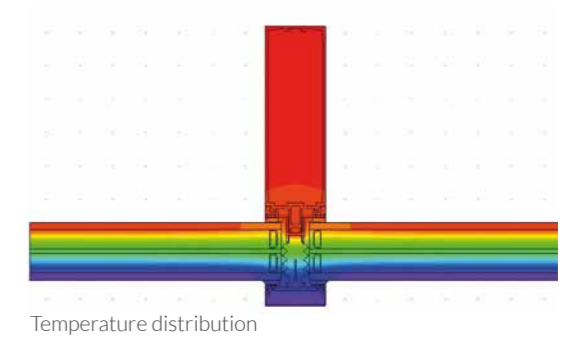
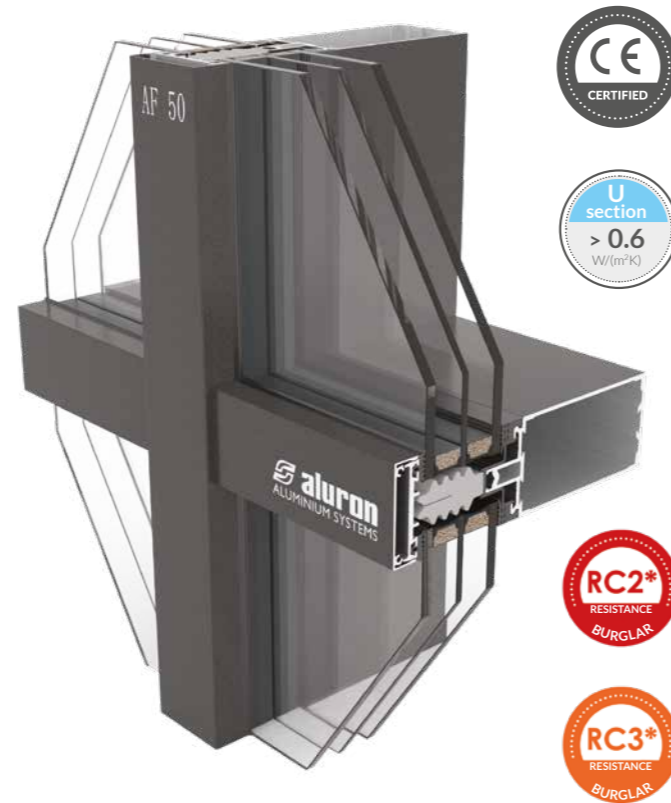
DESIGN & FUNCTIONALITY

-  Wide range of decorative strips.
-  Availability of lintel-window strips with fire resistance of EI 30 and EI 60.
-  Wide range of corner connections including a sealed transition to the roof.
-  System solutions for facade assembly: canopies, roller shutters, sliding doors and sun visors.
-  Profiles and gaskets flushed from the inside of the facade.
-  3 drainage levels available.
-  Option to equip the facade with a gutter mounted on a single transom (set of accessories).
-  Straight-cut transoms to facilitate prefabrication, also for angled connections.
-  Optimization of material use thanks to single-profile pole-to-pole technology.

Single-profile facade AF 50

The AF 50 facade system is used for the construction of lightweight curtain walls made using single-profile mullion-mullion technology providing manufacturers with excellent material optimisation.

The solution offers a wide range of design options and is ideal for use in modern buildings. The system uses solutions that guarantee high insulation and airtightness parameters.

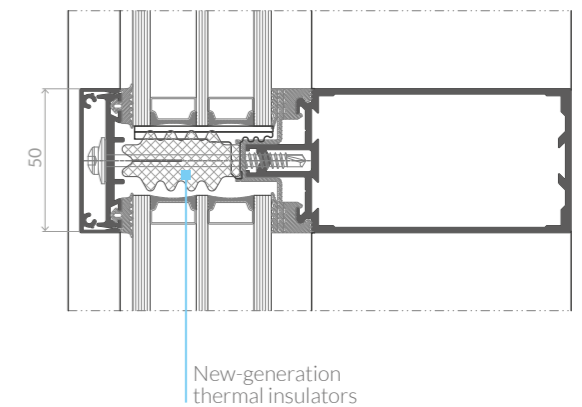
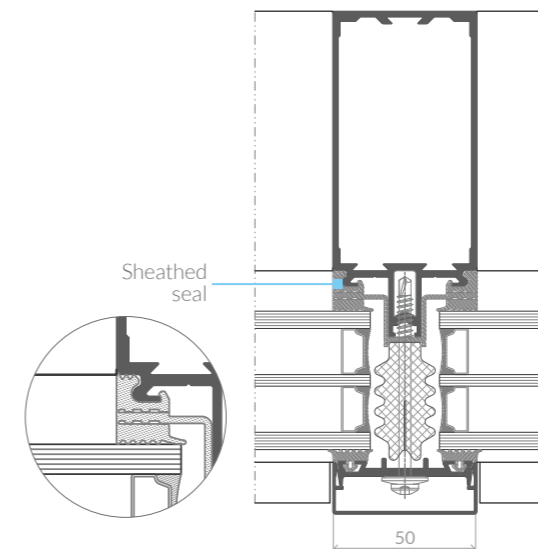


SYSTEM CHARACTERISTICS

RC2, RC3	from 0.6 W/m²K	50 mm	up to 540 kg	up to 64 mm	0-320 mm
Burglary resistance	Thermal insulation of U facade	Width of mullion and transom sections	Load-bearing capacity of glass	Glazing range	Range of depth of mullion and transom sections

Section through the mullion

Section through the transom



SELECTED SYSTEM PARAMETERS

class AE 1500 Pa	class RE 2400 Pa	2400 Pa	+/- 3600 Pa	class E5/I5	42 (-2;-8) dB
Air permeability	Water tightness	Wind load resistance	Safety test	Impact resistance 2-chamber double-glazed window	Acoustics



TVP 3 headquarters in Kielce

DESIGN & FUNCTIONALITY



System solutions for mounting on the facade: canopies, roller shutters, sliding doors and sun visors.



Internally flush mullion and transom as standard.



Aesthetic slim silicone joint.



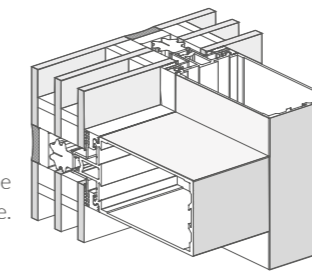
Excellent optimization of material usage due to single-profile pole-to-pole technology.



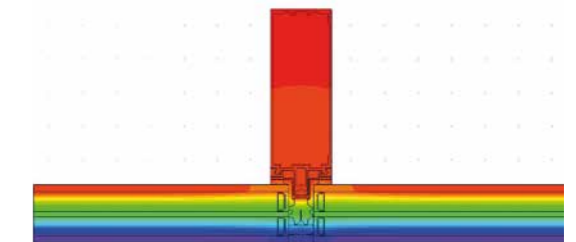
Option of vertical or horizontal line.



Lintel-window strips available with fire resistance of EI 30 and EI 60.



Profiles flushed from the inside of the facade.



Temperature distribution

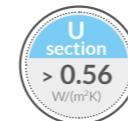
Silicone variant of a single-profile facade AF 50S

The AF 50S facade system is a highly aesthetic and lightweight structure.

Its modern design is ideal for office buildings, emphasising their aesthetics and class. The system allows the use of multi-pane packages with a slim silicone joint. The solutions used achieve high thermal performance adapted to changing weather conditions.

The AF 50S system allows three ways of fixing the glass:

- point attachment by molded-in fasteners,
- attachment by the glued-in frame,
- attachment by the inner pane.

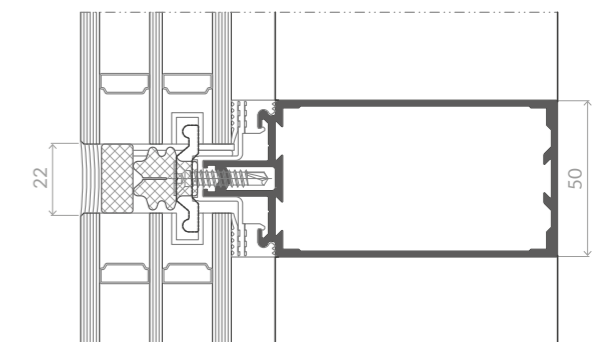
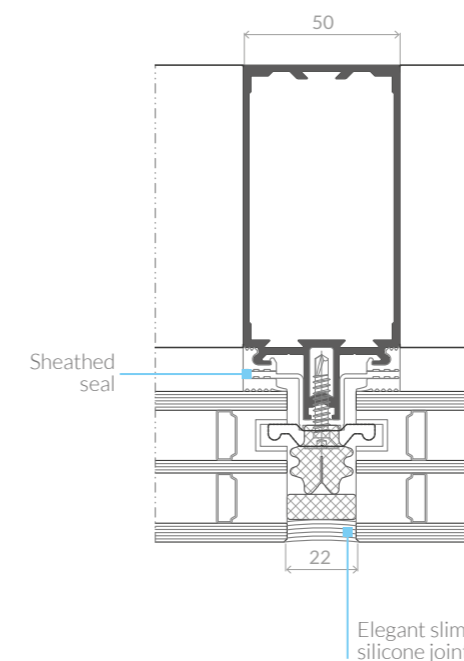


SYSTEM CHARACTERISTICS

RC2, RC3	50 mm	up to 540 kg	up to 62 mm	0-320 mm	22 mm
Burglary resistance	Width of mullion and transom sections	Load bearing capacity of glass	Glazing range	Range of depth of mullion and transom sections	Glazing joint

Section through the mullion

Section through transom










SELECTED SYSTEM PARAMETERS

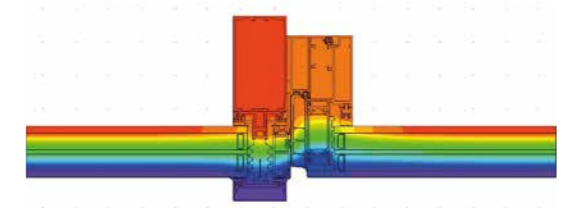
from 0.56 W/m²K	class AE 1650 Pa	class RE 2500 Pa	2400 Pa	+/- 3600 Pa	class I5/E5	42 (-2;-8) dB
Thermal insulation U facade	Air permeability	Watertightness	Wind load resistance	Safety test	Impact resistance	Acoustics



Sports building at LO No. 13 in Wrocław

DESIGN & FUNCTIONALITY

-  Hidden profiles - stepped double glazing available as standard.
-  Structural glazing increasing the aesthetic value of the solution.
-  Option of automatic opening with the use of dedicated electric actuators.
-  Option of manual opening.
-  Compatible with AF 50 systems, AF 50S and ATF 50.
-  Wide range of tilt and parallel-retracting fittings from reputable suppliers.
-  Option of effective ventilation of rooms while maintaining the aesthetics of the entire facade.



Temperature distribution

Tilt and parallel-retracting windows AF 50W

The system is designed for the construction of windows opening outward in two variants: tilt and parallel-retracting.

This type of windows can only be installed in facades and is compatible with the AF 50, AF 50S and ATF 50 systems. The solution provides for the installation of glass using structural glazing. There is no need to apply any profiles on the outside. The product provides the beautiful visual effect of a fixed window from the outside. This is the first solution of this type designed for the needs of two-chamber infills.



SYSTEM CHARACTERISTICS

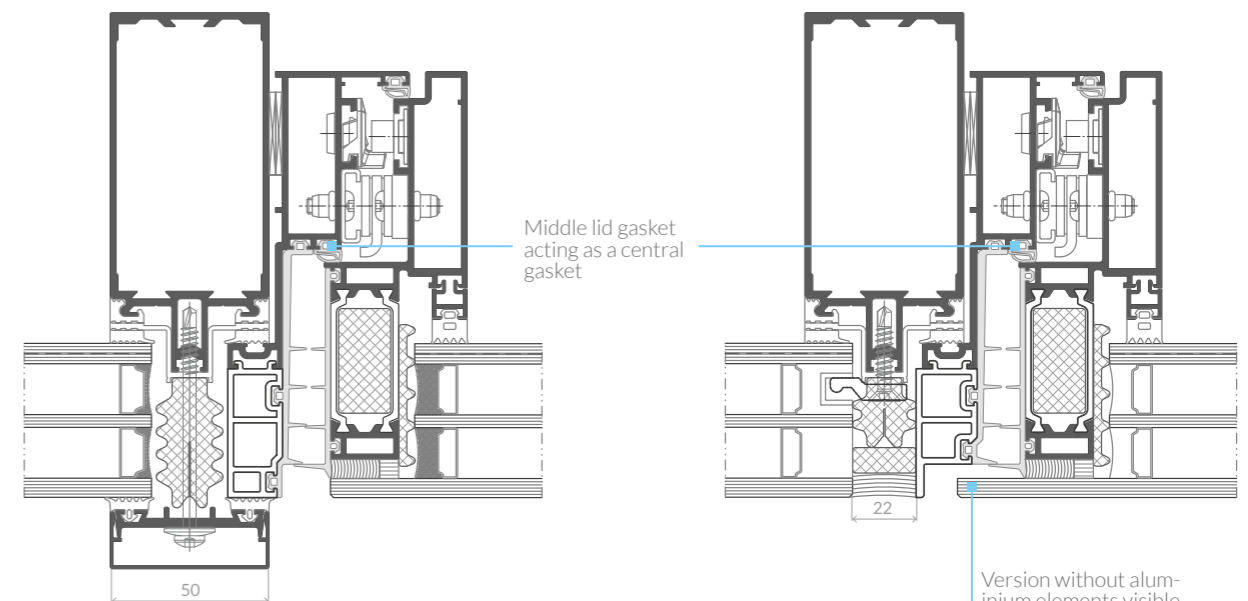
3044 mm	2000 mm	180 kg	200 kg	48-65 mm	45 mm
Max. structure height	Max. structure width	Max. weight of hinged window	Max. weight of parallel-retracting window	Glazing range	Thermal separator width

SELECTED SYSTEM PARAMETERS

from 0.79 W/m²K	class E 2400 Pa	class 4	class C5/B5	+/- 3000 Pa	class 4	class 4
Thermal insulation Uw	Water tightness	Air permeability	Wind load resistance	Safety load	Load resistance in the plane of the sash	Static torsion resistance

Section through mullion with window








Section through transom with window

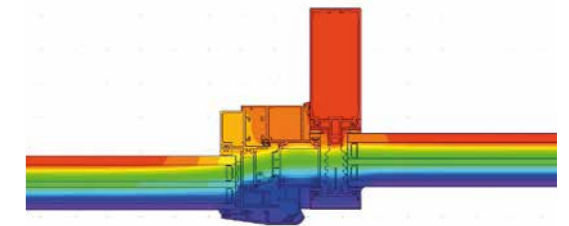




Egzotarium in Sosnowiec

DESIGN & FUNCTIONALITY

-  Aesthetically pleasing roof window with the option of using it as a certified smoke ventilation flap.
-  Double-glazed as standard.
-  Compatible with AF 50, AF 50S and ATF 50 facade systems.
-  **3** Three-chamber system construction with the option of implementing insulating inserts for excellent thermal insulation.
-  Proprietary overlay glazing system ensuring superior tightness and easy and efficient installation.
-  Manual opening or using dedicated electric actuators.
-  Efficient drainage and ventilation system for condensation drainage.



Temperature distribution

Windows, skylights and smoke flaps AF 50R

AF 50R is a modern system for the construction of windows installed in a roof slope made on the basis of AF 50 or AF 50S.

In addition to its lighting function, the solution ensures adequate ventilation and the possibility of ventilating the rooms. An excellent level of tightness is ensured by the proprietary solution of the overlay glazing system and the use of a central seal. AF 50R roof windows based on facade systems meet the highest utility and thermal requirements.

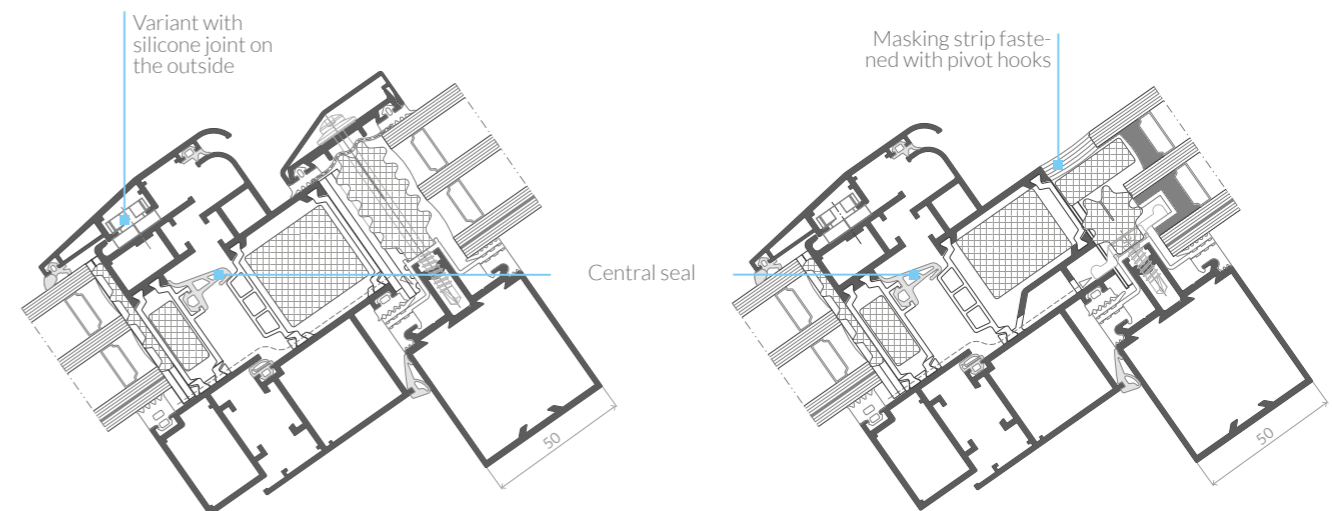


SYSTEM CHARACTERISTICS

2500 mm	2500 mm	200 kg	28-58 mm	2-90°
Max. construction height	Max. construction width	Max. weight	Glazing range	Tilt angle

Section through a skylight window in a facade

Section through a skylight window in a silicone facade



SELECTED SYSTEM PARAMETERS

from 0.99 W/m²K	class E 2400 Pa	class 4	class C5/B5	+/- 3000 Pa	class 4	class 4
Thermal insulation Uw	Water tightness	Air permeability	Wind load resistance	Safety load	Load resistance in the plane of the sash	Static torsion resistance



DESIGN & FUNCTIONALITY



Improving the aesthetics of the facade while maintaining the ventilation function of the room.



Stylish hidden sash effect when viewed from the outside.



Extensive range of various shaped cover strips.



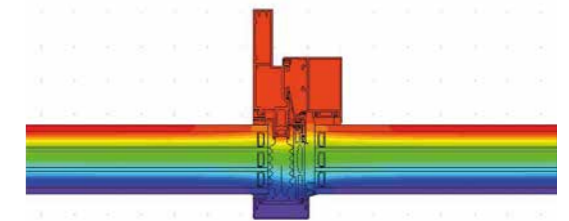
Option of single or double glazing.



Diversity of design variants depending on the type of facade used: IW AF 50, IW AF 50S, IW AF 50KW, IW ATF 50 and IW ATF 50S.



Special central seal design for high structural integrity and efficient drainage.



Temperature distribution

Window opening inwards integrated in the facade **IW 50**

The IW 50 system is intended for constructing windows integrated with an aluminium facade which open inwards using standard hidden hinges.

Windows constructed on the basis of the system can be turn-and-tilt, turn and tilt. When viewed from the outside, the window sash does not differ from the neighbouring fixed panels, so it does not interfere with the view typical of a facade system.

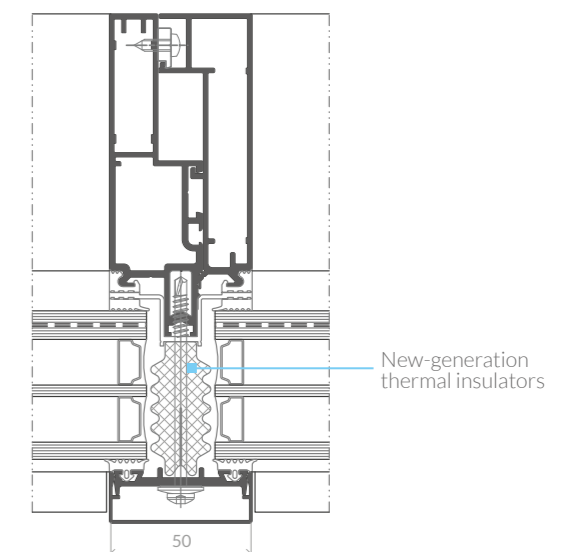
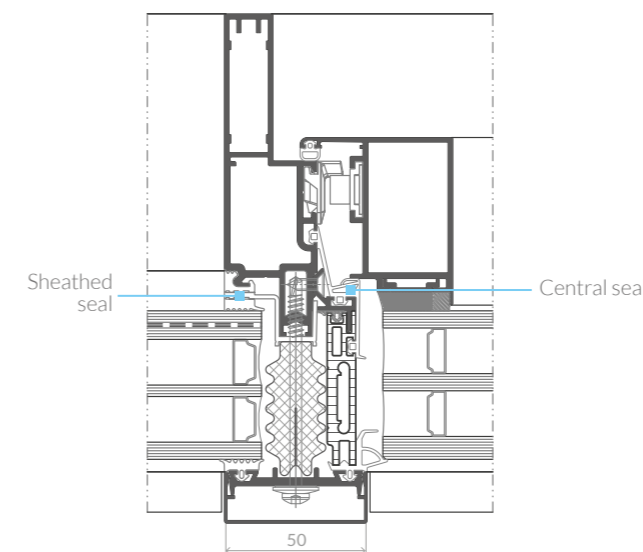


SYSTEM CHARACTERISTICS

2400 mm	1500 mm	150 kg	28-64 mm	50 mm	80 mm	70-210 mm
Max. construction height	Max. construction width	Max. construction weight	Glazing range	Width of mullion and transom sections	Width of sections including sash from inside	Range of depth of mullion and transom sections

Section through mullion with window

Section through mullion - fixed part










SELECTED SYSTEM PARAMETERS

from 0.51 W/m²K	class RE 2400 Pa	class 4	class C5/B5	+/- 3600 Pa
Thermal insulation Uw	Water tightness	Air permeability	Wind load resistance	Safety test



DESIGN & FUNCTIONALITY

-  Excellent material optimisation thanks to single-profile mullion-to mullion technology.
-  Option of full prefabrication in the workshop without cutting the seals on site.
-  Fully compatible with other Aluron systems.
-  Easy installation of infills of different thicknesses.
-  Two sealing variants: standard block seals and with sheathing seal for superior tightness.
-  Profiles and gaskets flushed from the inside of the facade.
-  Wide selection of decorative clips.

Thermally advanced single-profile facade with mullion to mullion technology **ATF 50**

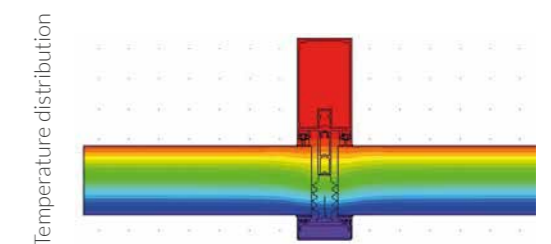
The ATF 50 facade system is dedicated to modern buildings with the highest thermal insulation requirements.

Based on the solution, it is possible to construct flat walls as well as skylights. The system incorporates solutions that guarantee high watertightness parameters and resistance to air permeability. Special construction of the infill fixing cup to guarantee full isothermal flattening and excellent thermal insulation performance.



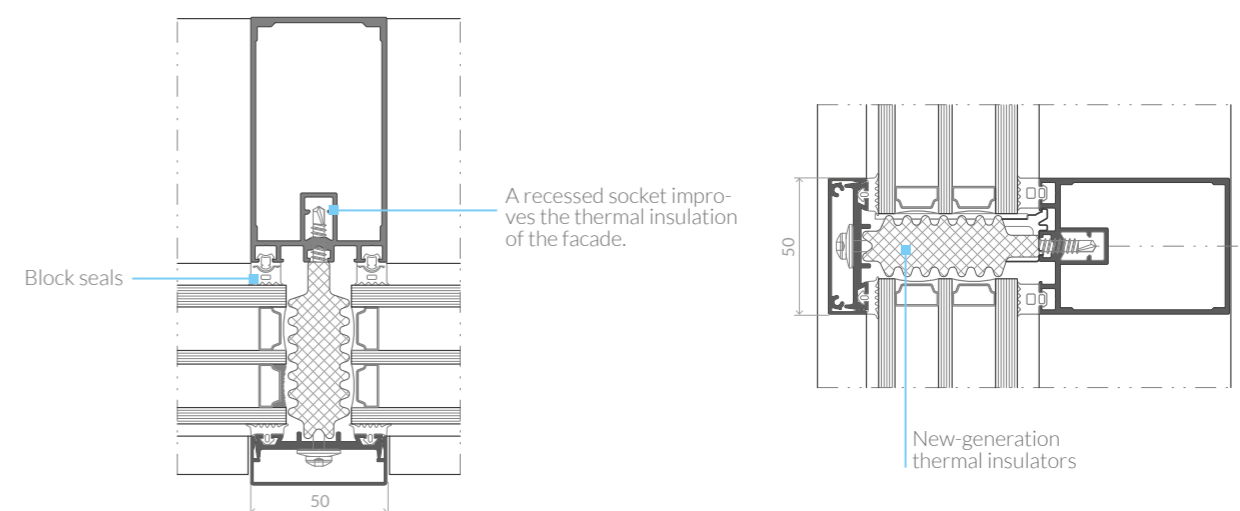
SYSTEM CHARACTERISTICS

50 mm	30 mm ÷ 300 mm	up to 64 mm	up to 700 kg
Width of mullion and transom sections	Range of depth of mullion and transom sections	Glazing range	Max. filling weight



Section through the mullion

Section through the transom












SELECTED SYSTEM PARAMETERS

from 0.5 W/m²K	class RE 2400 Pa	class AE 2400 Pa	2400 Pa	+/- 3600 Pa	RC2, RC3
Thermal insulation	Water tightness	Air permeability	Wind load resistance	Safety load	Burglary resistance



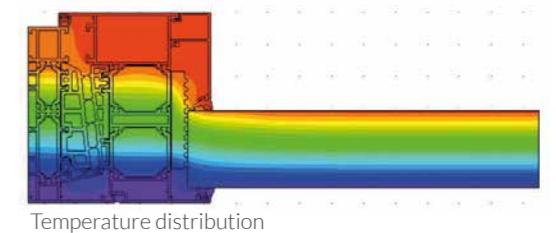
DESIGN & FUNCTIONALITY

-  Innovative 5-chamber technology to improve structural rigidity.
-  Glazing with double glazing units with an inner pane of Contraflam 30.
-  ROTO AL fittings of the tilt-and-turn type.
-  The window sash flushed with the frame from the outside.
-  The solution is compatible with other Aluron systems.
-  Lower profiles of sashes and low assemblies - more light.
-  Elegant aluminium drain plugs in the color of the joinery.
-  Possibility of crimping and doweling.
-  Production optimization - using the same gaskets and fasteners.

Thermally insulated fire window system AS 110EI

The five-chamber AS 110EI system is used for constructing fireproof windows with the highest thermal insulation on the market.

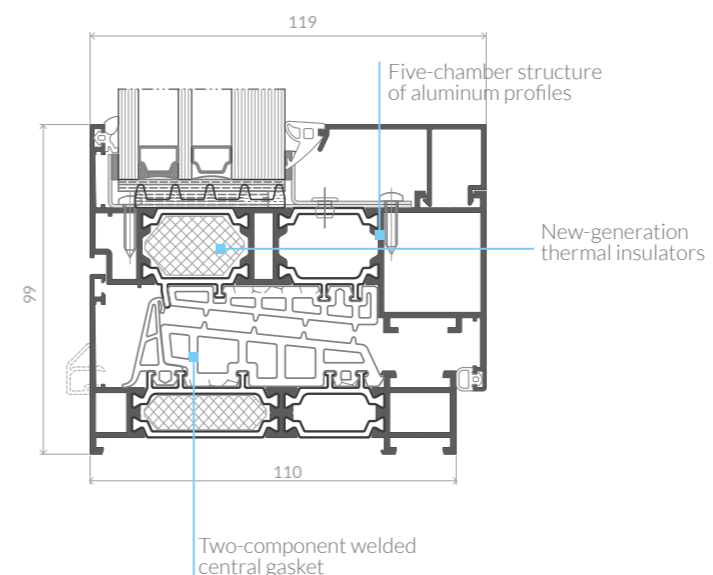
Based on the Classification Report issued by the Building Research Institute, it is possible to construct single-leaf external windows in the fire resistance class EI 30 in individual development assembled in rigid structures. The construction of the system provides excellent static and acoustic insulation of windows.



SYSTEM CHARACTERISTICS

2322 mm	1494 mm	110 mm	119 mm	54 mm	32 mm
Max. sash height	Max. sash width	Frame depth	Depth of window sashes	Min. visible frame width	Min. visible sash width

Section through opening window







SELECTED SYSTEM PARAMETERS

from 0.8 W/m ² K	class E1950	class 4	class C5/B5	class 4	EI 30
Thermal insulation Uw	Water tightness	Air permeability	Wind load resistance	Mechanical strength	Fire resistance







OSiR Ice Rink in Bytom

PERLITERM INSERTS

-  Patented fire protection inserts shaped to fit the profile chambers, made from volcanic rock.
-  Lighter, warmer and dust-free compared to commonly used gypsum.
-  Mechanically strong (crack and fracture resistant) for improved thermal insulation.
-  The first fireproof inserts on the market in a plastic envelope ensuring cleanliness and convenience of storage and use.

EASY TO INSTALL

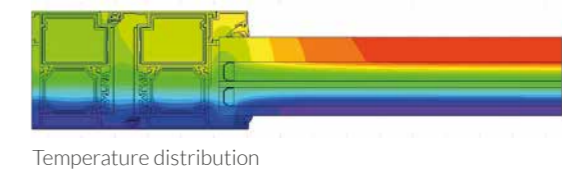
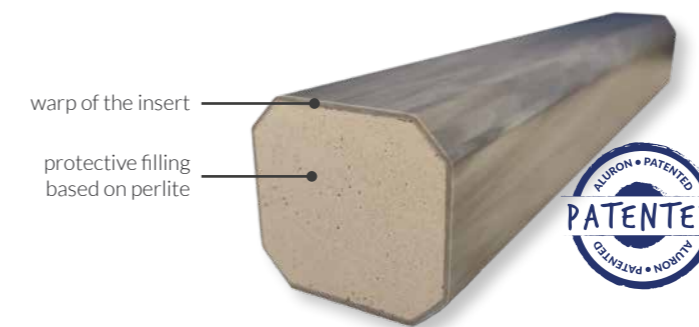
-  Single-sided glazing as in typical door systems, clip assembly on the inside.
-  Adjustable system angle for glass fixing facilitating glazing of different glass packages.
-  Selectable glazing position in relation to the leaf axis - so-called central glazing.
-  Proprietary expanding seals clipped into thermal breaks eliminating the problem of their unsticking.

Thermally insulated fire door system AS 75EI

The three-chamber system AS 75 EI is used to construct thermally insulated internal and external doors with fire resistance class EI 30 and EI 60 with the possibility of installation in showcase structures, AS 75EI walls and plasterboard walls.

The system ensures full optimisation of the profiles applied by using the same sections and accessories as the classic AS 75 window and door system. The system uses multi-variant glazing from Vetrotech Saint-Gobain and door fittings of well-known brands: Wala, Master, Dr Hahn, Wilka, MC Aluhard, Eco, Schulte, Geze.

Fire-resistant technical doors and windows created on the basis of the system can be equipped with sidelights and fanlights. The system also allows the use of a warm opaque panel in doors and the construction of fire-resistant walls.

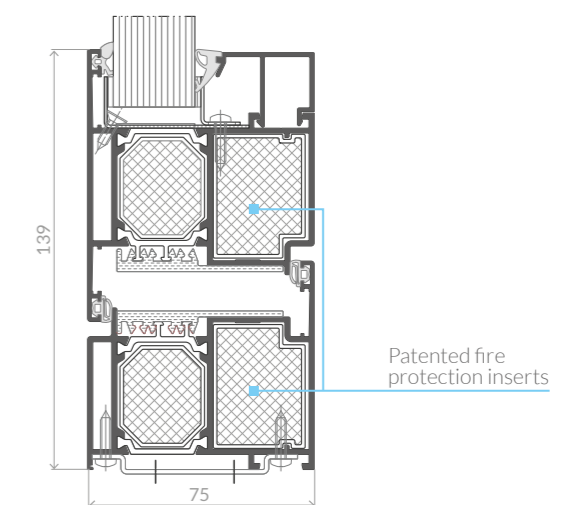
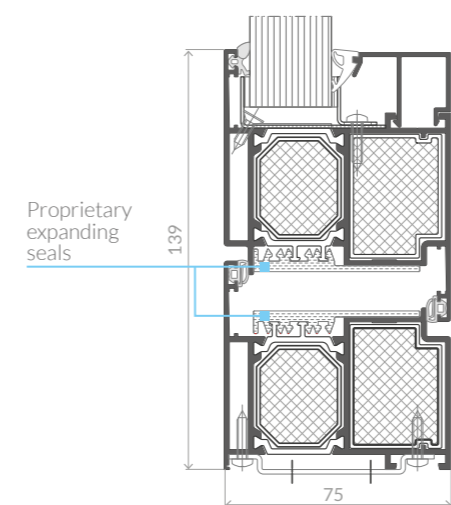


SYSTEM CHARACTERISTICS

EI 30 - 2800 mm EI 60 - 2500 mm	1320 mm	220 kg	EI 30 - 4800 mm EI 60 - 4000 mm	15 mm, 16 mm	27 mm	34-56 mm
Max. leaf height	Max. leaf width	Max. leaf weight	Max. height of fire proof walls	Thickness of single glazing in EI 30 constructions	Thickness of single glazing for EI 60 construction	Thickness range of glazing packets in EI 30 and EI 60 construction

Section through door opening inward - EI 60 version

Section through door opening outward - EI 60 version



SELECTED SYSTEM PARAMETERS

from 1.2 W/m²K	class EI 30, EI 60	class Sa, Sm	class 7A	class 2	class C2
Thermal insulation Ud	Fire resistance	Smoke-proof	Watertightness	Air permeability	Resistance to wind load



Sports and Entertainment Hall in Pulawy

DESIGN & FUNCTIONALITY



Sheathing seal wrapping around the entire socket for superior tightness.



Straight-cut transoms for easier prefabrication, also with angled connections.



Lintel-window strips available with EI 60 fire resistance.



Three drainage levels available.



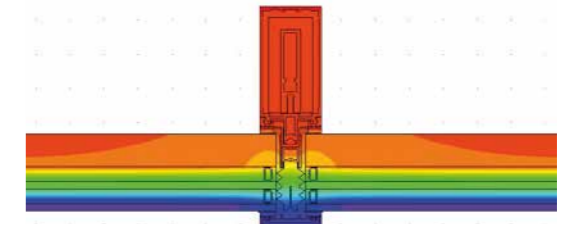
The solution is compatible with other Aluron systems.



Easy and quick prefabrication.



Profiles and gaskets flushed from the inside of the facade.



Temperature distribution

Fire protection facade AF 50EI

The AF 50EI facade system is used to construct lightweight curtain walls. The constructions are made on the basis of single-profile mullion-mullion technology, which provides the manufacturers with excellent material optimisation.

Based on the solution, it is possible to construct flat walls of fire resistance class EI60. Within the system, solutions have been applied that guarantee high water-tightness parameters and resistance to air permeability.

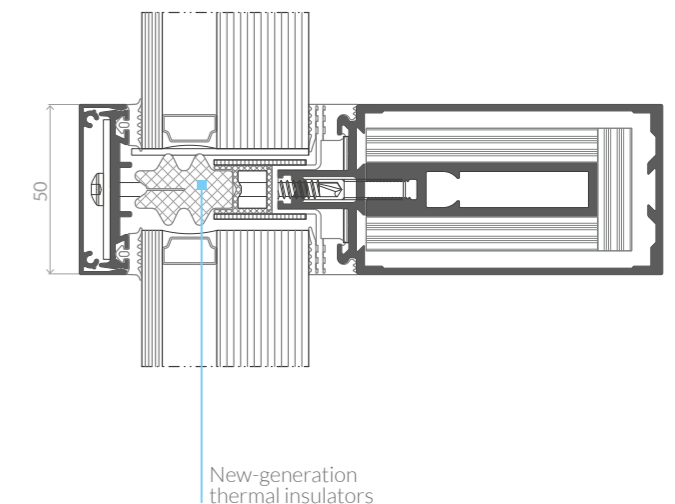
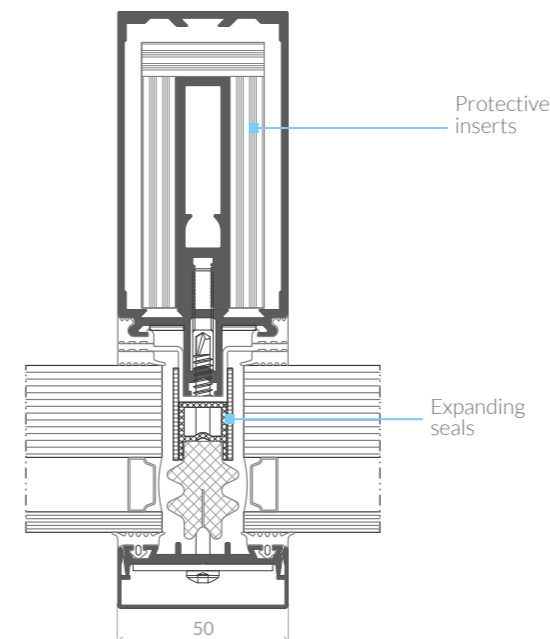


SYSTEM CHARACTERISTICS

RC2, RC3	class ES/I5	50 mm	90-320 mm	up to 64mm	up to 380 kg
Burglary resistance	Impact resistance	Width of mullion and transom sections	Range of depth of mullion and transom sections	Glazing range	Load bearing capacity of glass

Section through the mullion

Section through the transom




SELECTED SYSTEM PARAMETERS

from 0.7 W/m²K	EI 60	class RE 2400 Pa	2400 Pa	±3600 Pa	AE 1500 Pa
Thermal insulation	Fire resistance	Waterproofing	Wind load resistance	Safety test	Air permeability



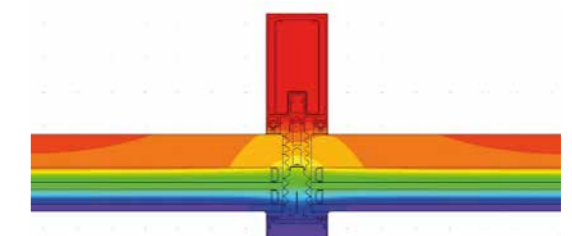
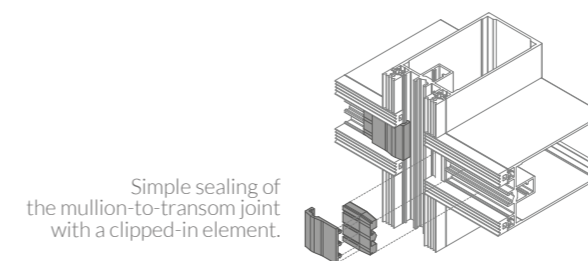
DESIGN & FUNCTIONALITY

-  Three drainage levels available.
-  System solution for facade mounting of AS 75EI and AS 100EI doors.
-  Preservation of sheathing seal continuity with glazing packet difference.
-  Profiles and gaskets flushed from the inside of the facade.
-  Innovative fireproof inserts in a metal wrap to increase the rigidity of the structure and facilitate installation.
-  Excellent thermal parameters.
-  Lintel-window strips available with EI 60 fire resistance.
-  Two sealing variants: block seal or sheathing seal.
-  Straight-cut transoms for easier prefabrication, also with angled connections.

Thermally advanced fire protection facade ATF 50EI

The ATF 50EI facade system is dedicated to modern buildings with increased requirements for thermal insulation.

On the basis of the solution, it is possible to construct flat walls of fire resistance class EI 30, EI 60 as well as skylights of fire resistance class REI20 and REI45. The system incorporates solutions that guarantee high watertightness parameters and resistance to air permeability.



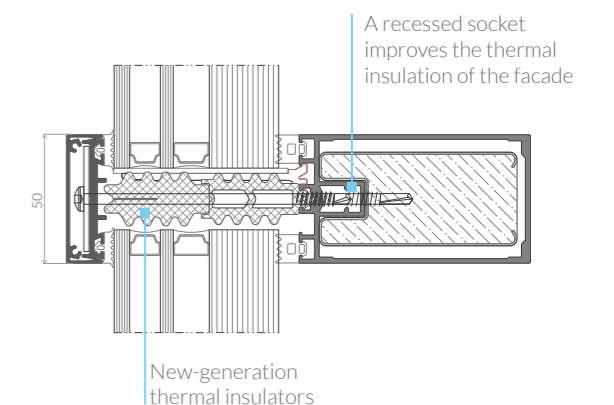
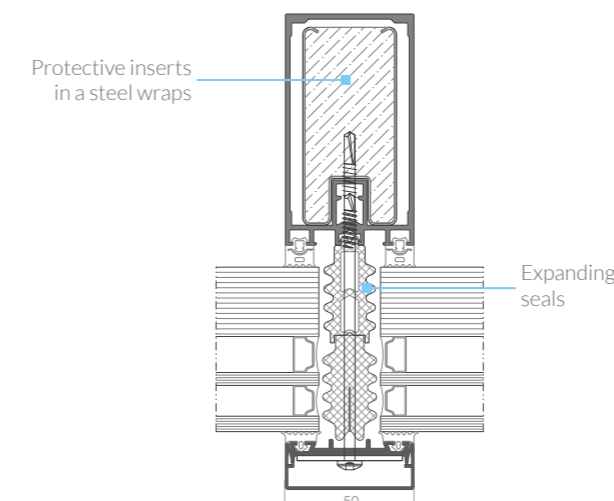
Temperature distribution

SYSTEM CHARACTERISTICS

50 mm	90-250 mm	AE 1500 Pa	class E5/I5	up to 64mm	up to 540 kg
Width of mullion and transom sections	Range of depth of mullion and transom sections	Air permeability	Impact resistance	Glazing range	Load bearing capacity of glass

Section through mullion

Section through transom



SELECTED SYSTEM PARAMETERS

from 0.6 W/m²K	RE 2400 Pa	2400 Pa	±3600 Pa	EI 60, EI 30	REI20, REI45
Thermal insulation	Waterproofing	Wind load resistance	Safety tests	Fire resistance	Fire resistance of skylights based on ATF 50EI



DESIGN & FUNCTIONALITY

-  Compatible with all aluminium, PVC and wood-aluminium window and door systems.
-  Exceptional aesthetics provided by hidden mounting screws, drains and connectors.
-  The option of creating many aesthetic variants of the balustrade to suit the designer's vision and the users' needs.
-  Transparent infill to ensure full light penetration into the room.
-  Toughened ESG laminated glass in thicknesses from 10.8 mm (55.2) to 20.8 mm (1010.2) for safety.
-  Aesthetically pleasing handle over the top edge of the glass in lacquered aluminium or stainless steel to enhance user comfort.
-  Option to use photovoltaic infill to produce electricity from solar radiation.
-  Easy assembly and prefabrication.

The AS VGB system has a **National Technical Assessment** issued by the Building Research Institute in Warsaw, necessary to legally introduce the product to the construction market.

Integrated glass balustrade system AS VGB

AS VGB is a modern glass balustrade system for securing high opening windows known in this combination as French balconies.

It is characterised by its versatility and very high performance properties. The balustrades of the AS VGB system are compatible with aluminium windows and facade systems. They provide security and are an interesting detail that enhances the aesthetic value of designed buildings.

Based on the AS VGB system, balustrades can be created in a variety of installation methods and designs:

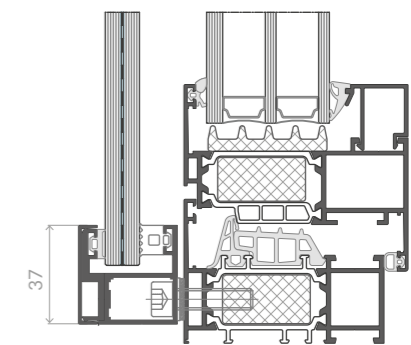
- external balustrade with glazing fixed on the vertical edges of the window with or without mullion,
- external balustrade with or without bottom profile,
- external balustrade with additional central mullion,
- external balustrade connected to the facade.



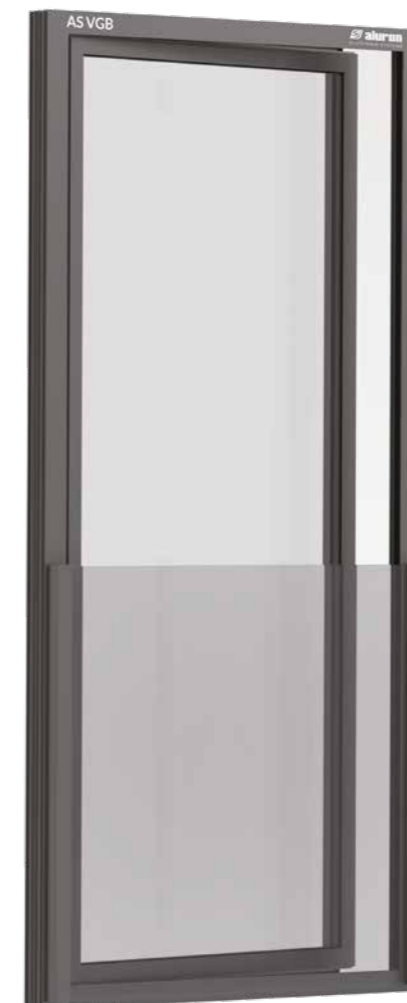
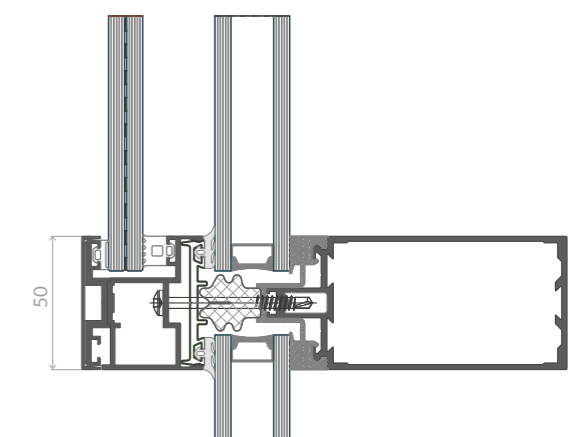
SYSTEM CHARACTERISTICS

500 mm	500 mm	2600 mm	1300 mm	10.8 mm (VSG 55.2)	20.8 mm (VSG 1010.2)
Min. glass width	Min. glass high	Max. glass width	Max. glass high	Allowed min. infill thickness	Allowed max. infill thickness

Fastening the balustrade to the opening window



Fastening the balustrade to the facade mullion





DESIGN & FUNCTIONALITY



Option to mount it on windows, doors, displays, balconies and HS doors.



High-quality hinges, magnetic locks and bogies.



Selection of nets in accordance with the size of the mosquito net.



Nets available in black and grey.



Can be made as a fixed, turn or sliding structure.



Option of constructing any number of running tracks in the case of a sliding mosquito net.

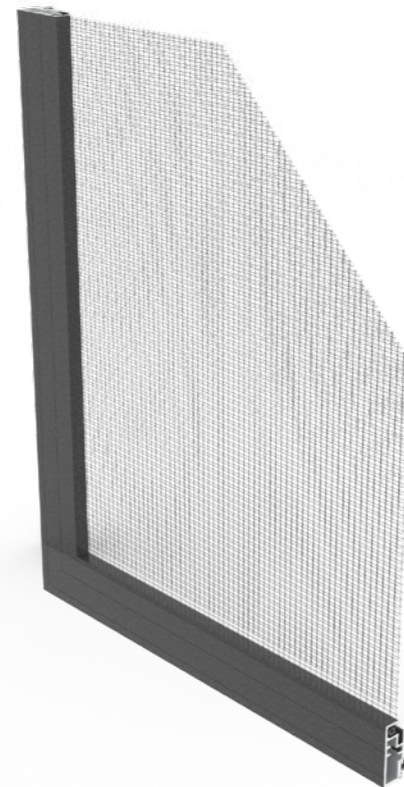


Mosquito net system AS M

AS M is a classic mosquito net system providing complete protection against insects.

The system is compatible with aluminium systems as well as with the Gemini systems from Aluron's offer. The AS M system allows the execution of most variants of mosquito net constructions available on the market while maintaining the required rigidity and large dimensions without the need to use crossbars. Option of a crossbar in the leaf and filling with sheet metal.

The fixed frame mosquito net consists of a net, seal, brush seal and mounting clips. An opening frame mosquito net consists of net, seal, brush seal, mounting clips, handles and hinges.

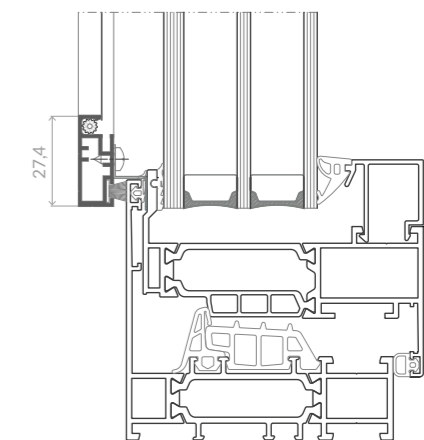
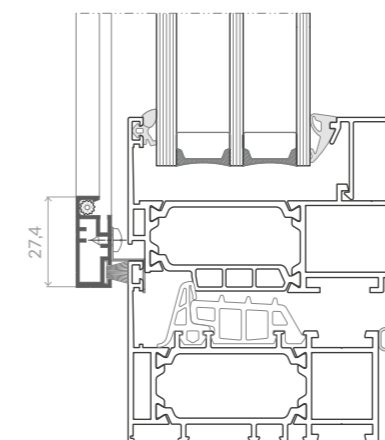


The following variations are possible within the AS M system:

- **fixed frame mosquito net with catches** for windows of the systems: AS 75, AS 80US, AS 110
- **screwed fixed mosquito net** for windows of the systems: AS 75, AS 80US, AS 110
- **opening frame mosquito net** for balcony doors of the systems: AS 75, AS 110
- **sliding frame mosquito net** for doors of system AS 178HS

Section through a window with mosquito net

Section through window with mosquito net



SYSTEM CHARACTERISTICS

1700 mm	2100 mm	1500 mm	2500 mm	2500 mm	2500 mm
Max. width of a fixed mosquito net	Max. height of a fixed mosquito net	Max. width of opening mosquito net	Max. height of opening mosquito net	Max. width of sliding mosquito net	Max. height of sliding mosquito net



CLASSIC SILLS

SOFT LINE SILLS



Angular shape of the aluminium profiles.



Variable sill widths from 50 to 380 mm.



Possibility to weld sills at different angles.



Average sill thickness of approx. 2 mm.



Extruded aluminium for indoor acoustic comfort.



Rounded shape of the aluminium profiles.



Variable sill widths from 150 to 300 mm.



Possibility to weld sills at different angles.



Average sill thickness of approx. 2 mm.



Extruded aluminium for indoor acoustic comfort.

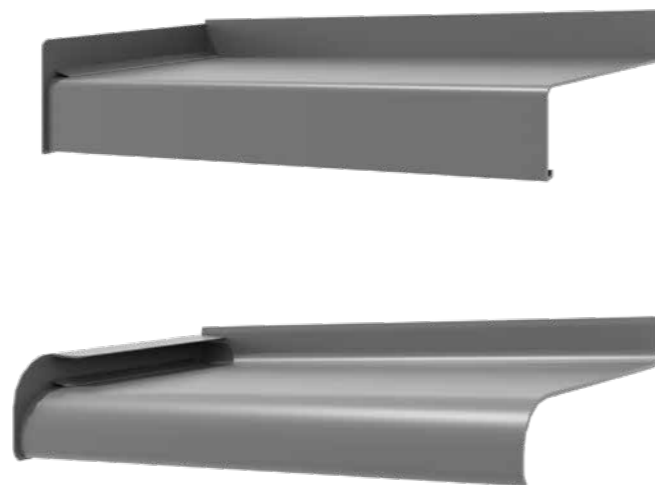
Aluminium sills Classic and Soft Line

The comprehensive Classic and Soft Line systems are dedicated to timber, aluminium, PVC and windows with aluminium covers.

They are manufactured using the aluminium extrusion method from constructional alloys that meet the highest quality standards. The products are distinguished by: high rigidity, excellent durability, tightness and solid workmanship.

The system is completed by a wide range of accessories including: end caps, gaskets, stainless steel screws, screw cover clips.

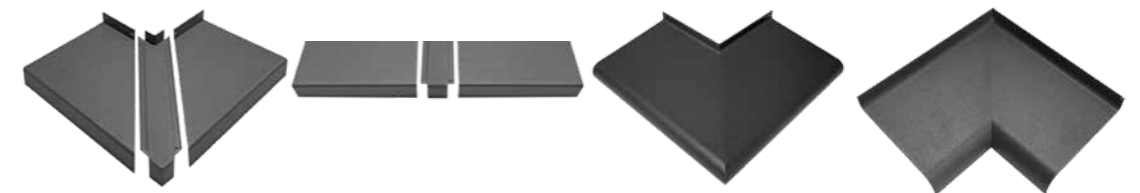
Aluron window sills are available in three surface finishes: anodised, powder-coated and imitation wood texture.



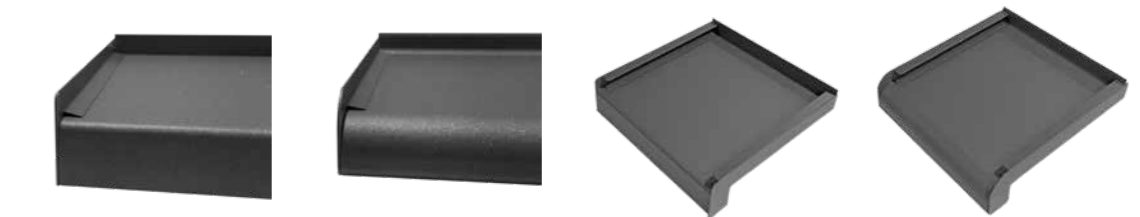
ALUMINIUM WINDOW SILLS - ACCESSORIES

Accessories	End cap		Angular connector			Straight connector	Window sill support bracket
	Plastic	Aluminium	Internal	External		Straight 180°	Aluminium
			90°	90°	135°		
Classic		■	■	■	■	■	■
Soft Line	■	■	■	■	■	■	

CONNECTORS



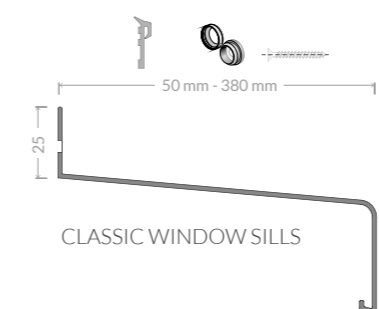
END CAPS



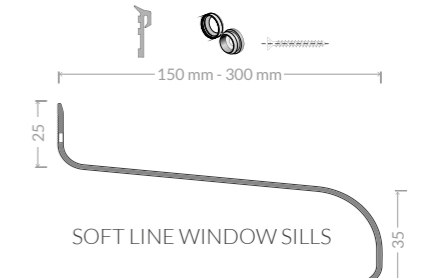
SYSTEM CHARACTERISTICS

Window sills	Width (mm)																						
	50	70	90	110	130	150	165	175	180	195	200	210	225	240	250	260	275	280	300	320	340	360	380
Classic	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Soft Line						■	■			■	■	■	■			■			■				

Section through a Classic window sill



Section through a Soft Line window sill





DESIGN & FUNCTIONALITY

-  Resistance to unfavourable weather conditions and UV radiation.
-  Eliminates time-consuming and labour-intensive maintenance.
-  Light construction with increased resistance to mechanical damage.
-  Freedom to choose RAL colours and wood decors from the Aluron Color Collection2 palette.
-  The grooved surface of the board prevents slipping and abrasion of the paint.
-  High resistance to mechanical damage.
-  Quick and easy installation with screws and special clips.

Aluminium decking board Patiocover

Patiocover is a new solution in Aluron's offer, which is an alternative to wooden and composite boards traditionally used to construct terraces.

The durability of aluminium guarantees long-term durability and resistance to weather conditions and mechanical damage.

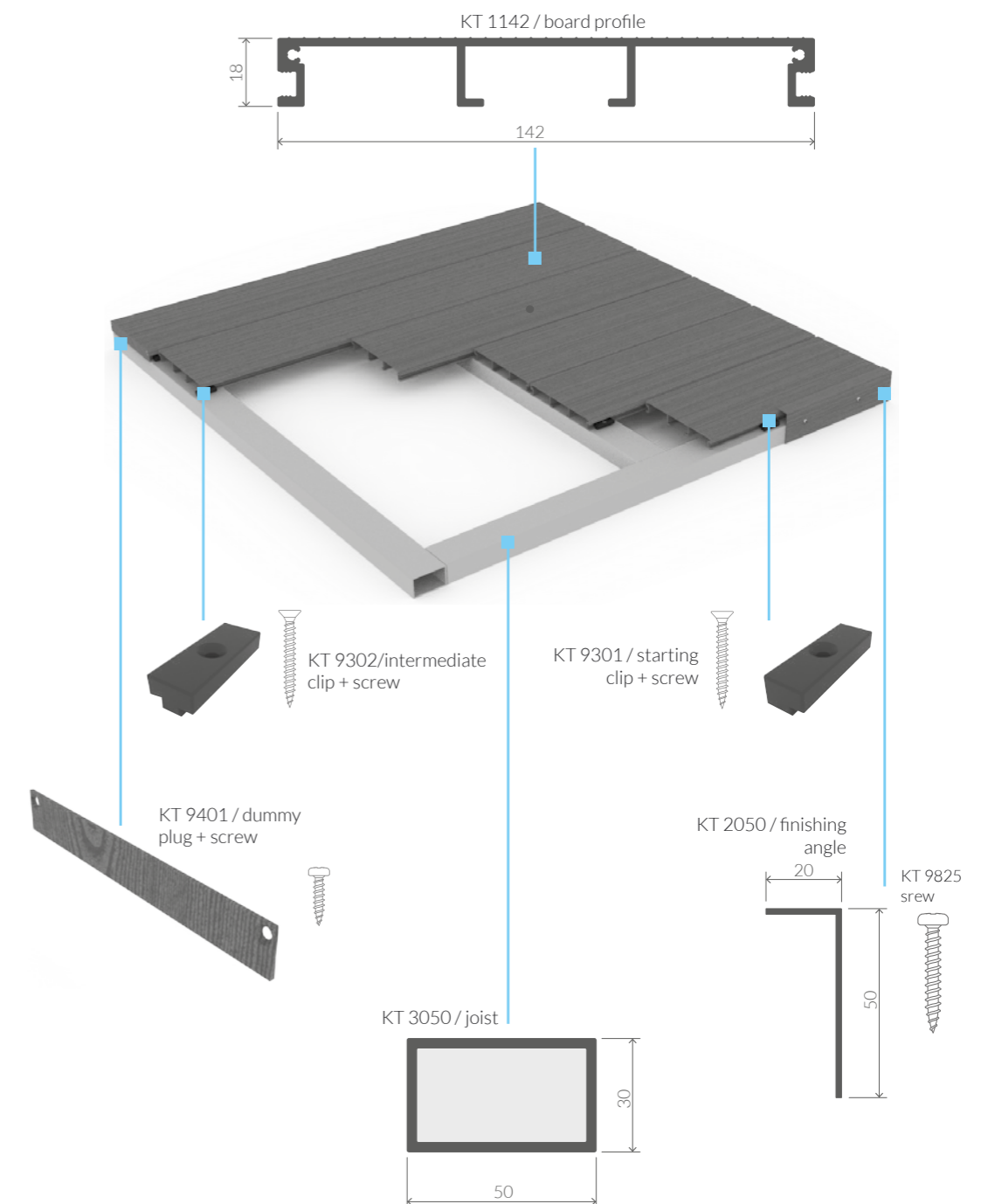
A rich RAL colours palette and wood decors allows of easily matching the colour of the decking board to the joinery and other equipment elements such as blinds, roller blinds, mosquito nets, balustrades or fencing.

The system is complemented by a wide range of accessories including: intermediate and initial clips, screws, caps and finishing angles.



SYSTEM CHARACTERISTICS

6000 mm	142 mm	18 mm	5 mm	10 mm
Board length	Board width	Board thickness	Gap between boards	Recommended expansion gap between the boards and the wall





DESIGN & FUNCTIONALITY



Resistance to unfavourable weather conditions and UV radiation.



Stability of the structure, boards adjacent to one another creating an even surface.



Light construction with increased resistance to mechanical damage.



Eliminates time-consuming and labour-intensive maintenance.



Quick and easy assembly



Freedom to choose RAL colours and wood decors from the Aluron Color Collection2 palette.

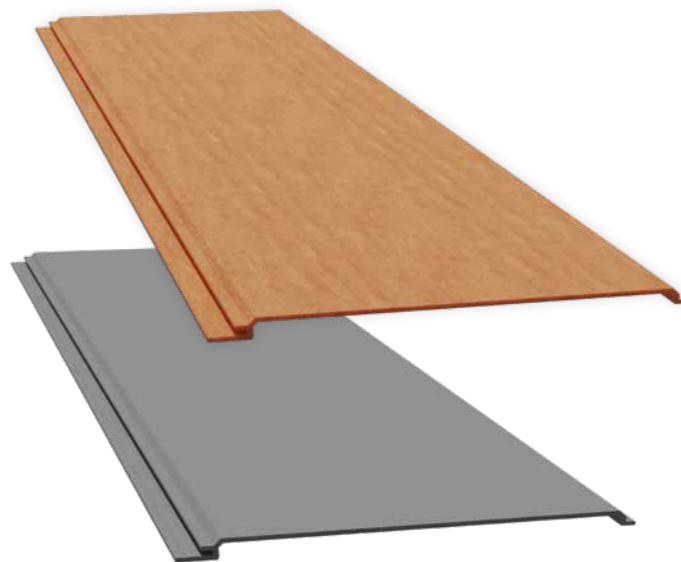
Aluminium facade board Verticover

Verticover aluminium facade boards are an extremely elegant and modern way to finish the facades of both private houses and public utility buildings.

They are characterized by extraordinary durability and resistance to mechanical damage. The facade board can be laid vertically, horizontally or at any angle, which makes it an interesting architectural element that gives a unique character to each investment.

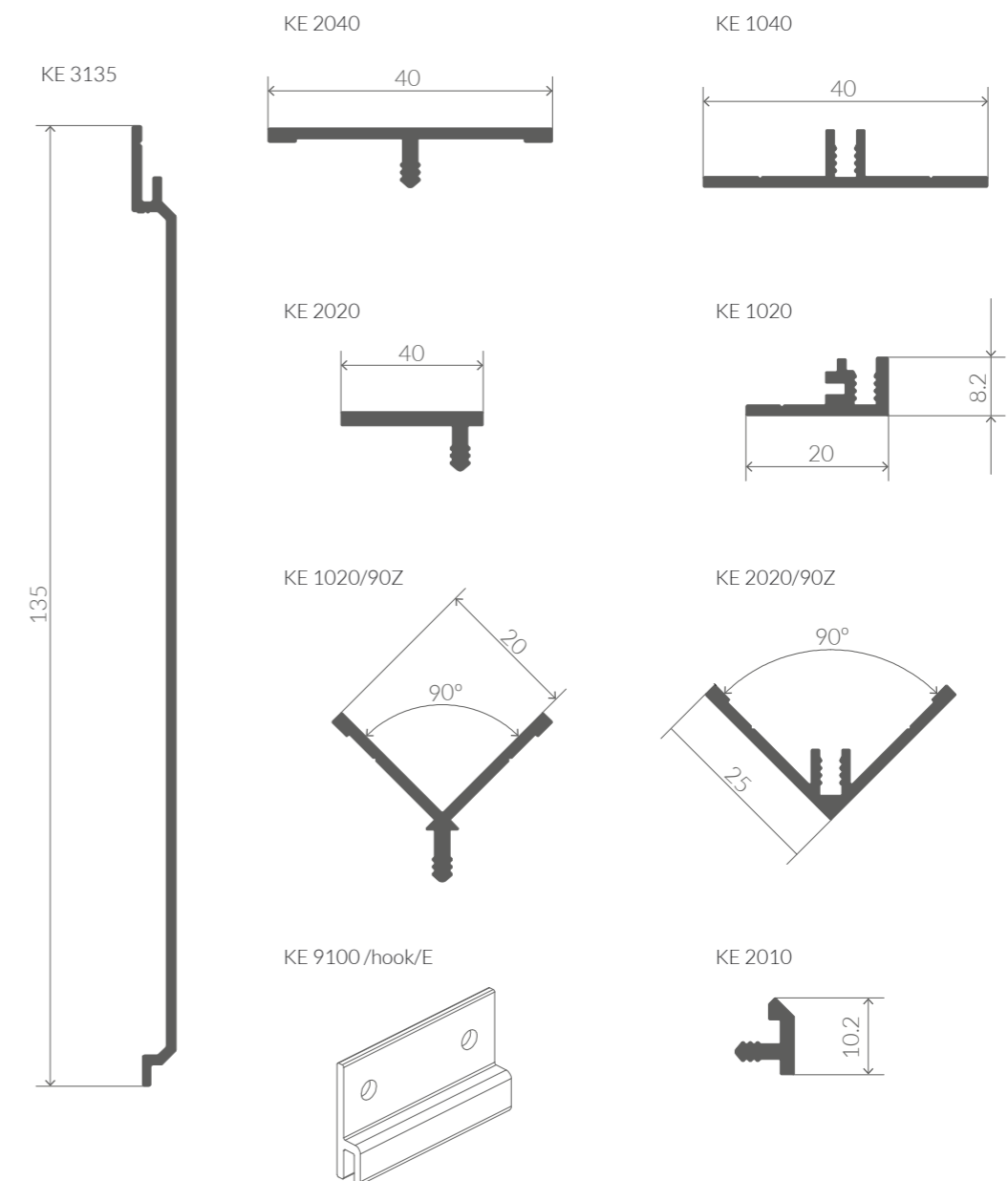
A rich palette of RAL colours and wood decors allows of easily matching the colour of the facade boards to the joinery, house facade and other equipment elements such as: entrance doors, blinds, roller blinds, mosquito nets, balustrades or fences.

The system is complemented by accessories including: corner profiles, connectors, catches and screws.



SYSTEM CHARACTERISTICS

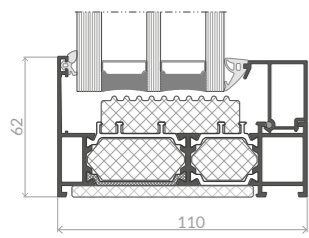
6000 mm	135 mm	8 mm	7 szt.
Board length	Board width	Board thickness	Number of boards per 1 m.



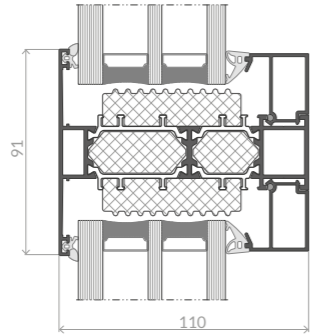
ADDITIONAL CROSS-SECTIONS AND THERMAL VARIANTS

AS 110 PASSIV window

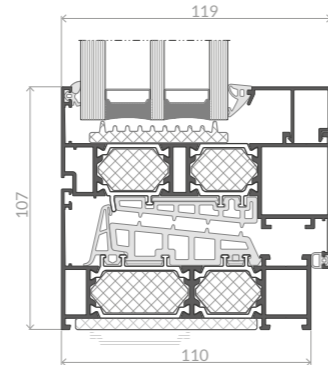
Section of fixed window frame



Section of fixed window spacer



Section of opening window



Heat transfer coefficient U_w [W/m²K]
for a reference window with dimensions 1.23 x 1.48 m
FIXED WINDOW

	U_w [W/m ² K]			
	$U_g = 0.3$	$U_g = 0.5$	$U_g = 0.6$	$U_g = 0.7$
AS 110B1	0.47	0.65	0.74	0.81
AS 110B2	0.46	0.64	0.72	0.80
AS 110P1	0.46	0.64	0.72	0.80
AS 110P2	0.43	0.61	0.69	0.77
AS 110P3 Passiv	0.42	0.60	0.68	0.76

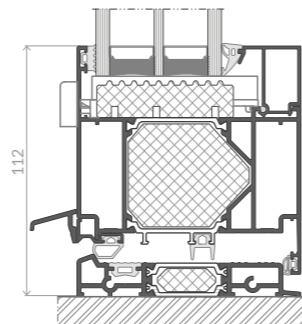
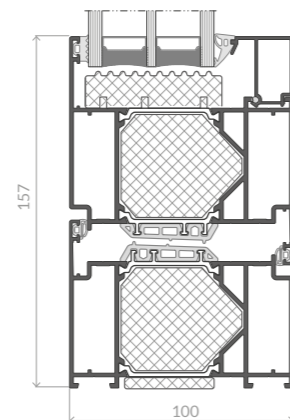
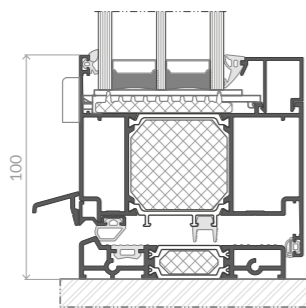
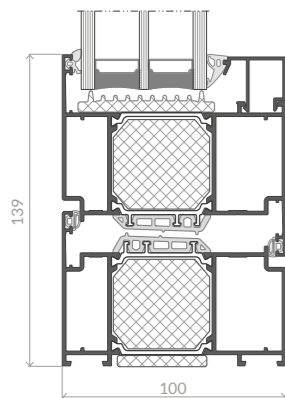
Heat transfer coefficient U_w [W/m²K]
for a reference window with dimensions 1.23 x 1.48 m
OPENING WINDOW

	U_w [W/m ² K]			
	$U_g = 0.3$	$U_g = 0.5$	$U_g = 0.6$	$U_g = 0.7$
AS 110B1	0.75	0.90	0.97	1.03
AS 110B2	0.74	0.90	0.96	1.02
AS 110P1	0.63	0.78	0.85	0.91
AS 110P2	0.54	0.68	0.75	0.81
AS 110P3 Passiv	0.51	0.66	0.73	0.80

AS 100 door

Basic profiles

Reinforced profiles



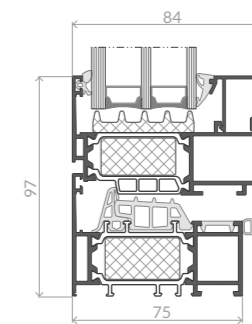
AS 100 door

Heat transfer coefficient U_w [W/m²K]
for a reference window with dimensions 2.18 x 1.48 m

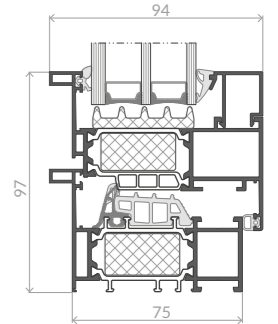
Section	U_d [W/m ² K]				
	$U_g = 0.3$	$U_g = 0.5$	$U_g = 0.6$	$U_g = 0.7$	$U_p = 0.55$ (panel)
AS 100.T1					
	0.90	1.04	1.15	1.21	1.06
	0.91	1.05	1.15	1.22	1.07
	0.93	1.07	1.17	1.23	1.08
	0.94	1.08	1.18	1.24	1.09
AS 100.T2 - without thermal insulators					
	0.75	0.89	0.98	1.05	0.89
	0.78	0.90	0.99	1.06	0.90
	0.78	0.92	1.01	1.07	0.92
	0.79	0.93	1.01	1.08	0.93
AS 100.T3 - with thermal insulators					
	0.56	0.70	0.79	0.86	0.70
	0.57	0.71	0.80	0.87	0.70
	0.58	0.72	0.80	0.87	0.71
	0.59	0.73	0.81	0.88	0.72

AS 75 window

Window opens



INDUSTRIAL profiles



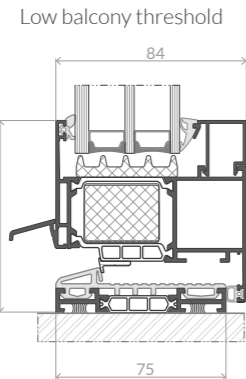
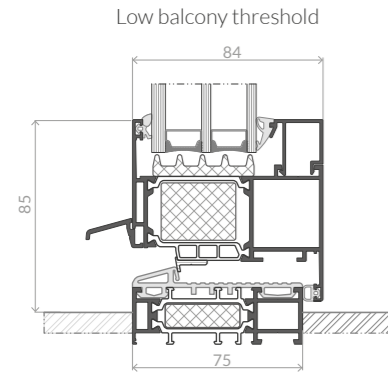
Heat transfer coefficient U_w [W/m²K]
for a reference window with dimensions 1.23 x 1.48 m

	U_f [W/m ² K] G=46mm/28 mm	U_w [W/m ² K]			
		$U_g = 0.5$	$U_g = 0.6$	$U_g = 0.7$	$U_g = 1.0$
FIXED WINDOW					
AS 75T1	1.98/ 2.10	0.79	0.87	0.96	1.26
AS 75T2	1.56/ 1.67	0.73	0.81	0.89	1.19
AS 75T3	1.19/ 1.28	0.67	0.76	0.84	1.14

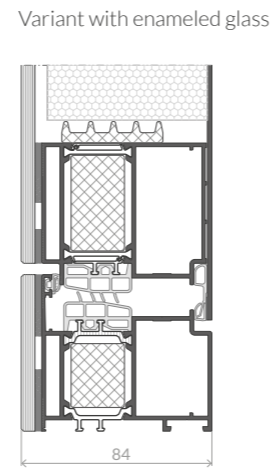
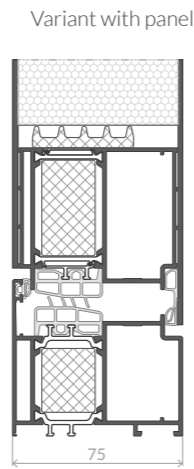
Heat transfer coefficient U_w [W/m²K]
for a reference window with dimensions 1.23 x 1.48 m

	U_f [W/m ² K] G=46mm/28 mm	U_w [W/m ² K]			
		$U_g = 0.5$	$U_g = 0.6$	$U_g = 0.7$	$U_g = 1.0$
OPENING WINDOW					
AS 75T1	2.04/ 2.19	0.97	1.04	1.11	1.41
AS 75T2	1.66/ 1.74	0.87	0.94	1.01	1.28
AS 75T3E	1.52/ 1.60	0.83	0.91	0.99	1.25
AS 75T3	1.34/ 1.42	0.79	0.86	0.93	1.20

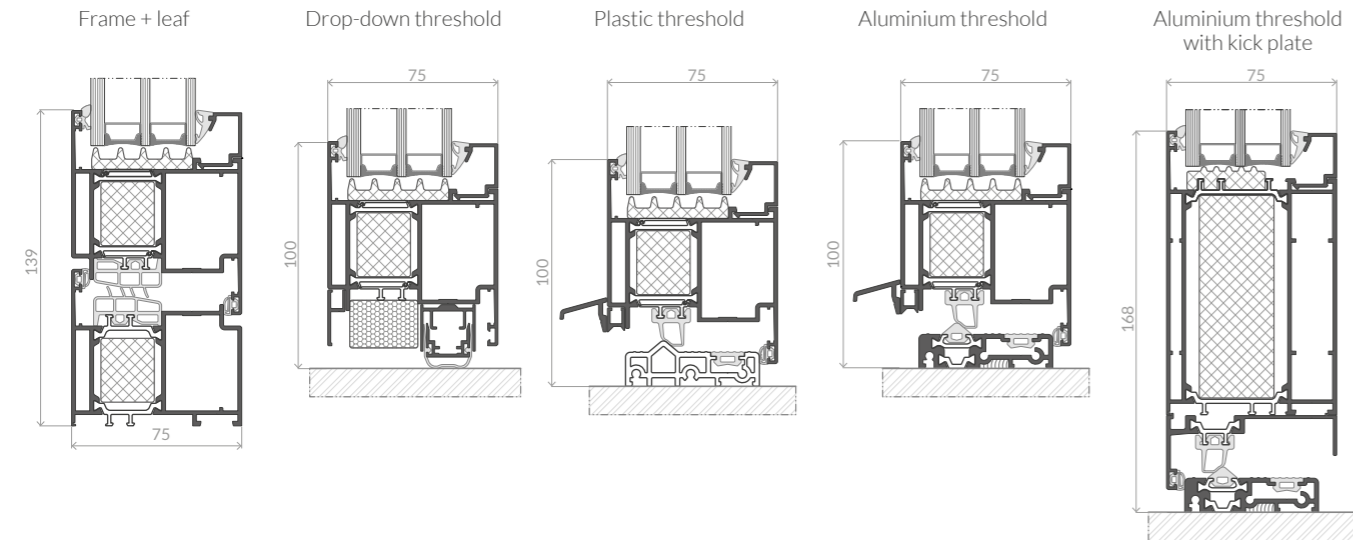
AS 75 balcony door



AS 75 paneled door



AS 75 door

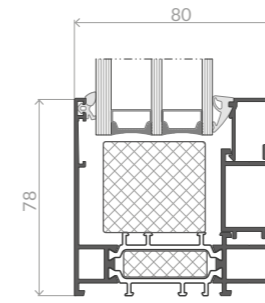


Heat transfer coefficient U_w [W/m²K] for a reference window opening outward with dimensions 2.18 x 1.48 m

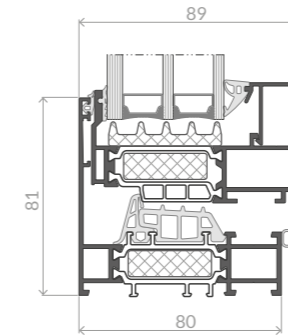
	U_f [W/m ² K] G=46mm/28 mm		U_w [W/m ² K]					U_f [W/m ² K] G=46mm/28 mm		U_w [W/m ² K]			
			U _g = 0.5	U _g = 0.6	U _g = 0.7	U _g = 1.0				U _g = 0.5	U _g = 0.6	U _g = 0.7	U _g = 1.0
AS 75B1	2.51/ 2.55	2.48/ 2.53	1.17	1.24	1.3	1.55	AS 75W1	2.29/ 2.32	2.18/ 2.21	1.10	1.17	1.24	1.47
AS 75B2	2.34/ 2.40	2.23/ 2.31	1.11	1.18	1.25	1.49	AS 75W2	2.10/ 2.16	1.89/ 1.95	1.03	1.10	1.17	1.42
AS 75B3	2.20/ 2.25	2.11/ 2.19	1.07	1.14	1.21	1.45	AS 75W3	1.96/ 2.00	1.77/ 1.83	0.99	1.06	1.13	1.37
AS 75T1	2.53/ 2.57	2.49/ 2.54	1.18	1.24	1.31	1.55	AS 75G1	2.09/ 2.11	2.18/ 2.21	1.05	1.12	1.18	1.42
AS 75T2	2.36/ 2.42	2.25/ 2.32	1.12	1.19	1.25	1.50	AS 75G2	1.88/ 1.92	1.89/ 1.95	0.98	1.05	1.11	1.35
AS 75T3	2.24/ 2.29	2.16/ 2.22	1.08	1.15	1.22	1.46	AS 75G3	1.70/ 1.74	1.77/ 1.83	0.93	0.99	1.06	1.3

AS 80US hidden window sash

Section through fixed panel with hidden sash



Section through opening window with hidden sash

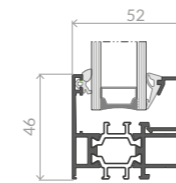


Heat transfer coefficient U_w [W/m²K] for a reference window with dimensions 2.3 x 1.48 m

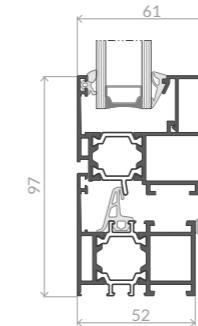
	U_f [W/m ² K] G=46mm/28 mm	U_w [W/m ² K]			
		U _g = 0.5	U _g = 0.6	U _g = 0.7	U _g = 1.0
AS 80US T1	2.37/ 2.59	0.97	1.05	1.12	1.44
AS 80US T2	1.33/ 1.45	0.74	0.82	0.90	1.19
AS 80US T3	1.15/ 1.28	0.71	0.78	0.86	1.16
AS 80US T1	2.04/ 2.21	0.92	1.00	1.07	1.37
AS 80US T2	1.63/ 1.73	0.83	0.90	0.98	1.26
AS 80US T3E	1.61/ 1.70	0.82	0.90	0.97	1.25
AS 80US T3	1.40/ 1.50	0.77	0.85	0.92	1.20

AS 52 window

Section through fixed panel

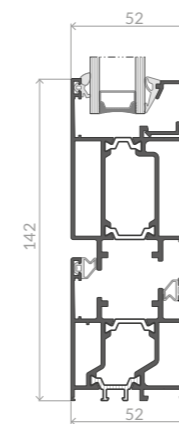


Section through opening window

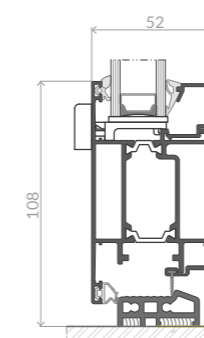


AS 52 door

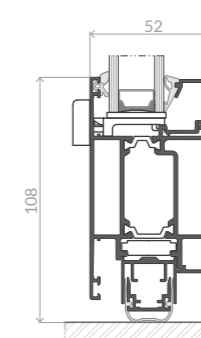
Door basic section



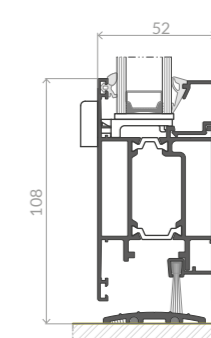
Section through plastic threshold



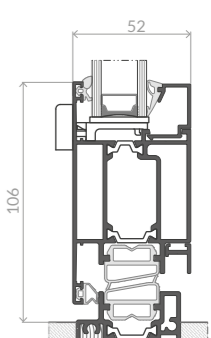
Section through drop-down threshold



Section through the brushed threshold strip

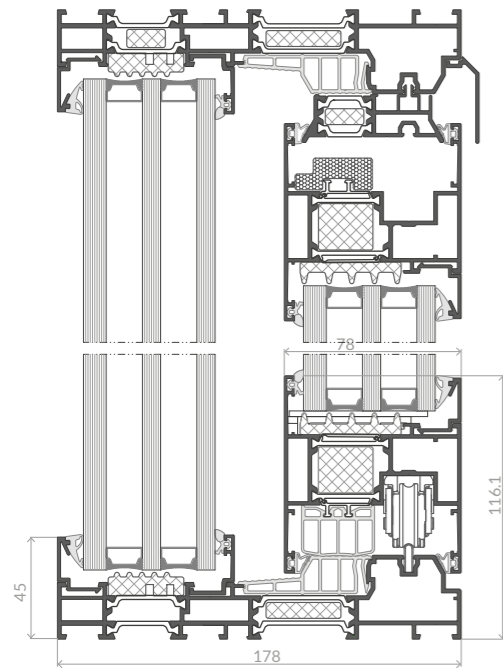


Section through the aluminium threshold

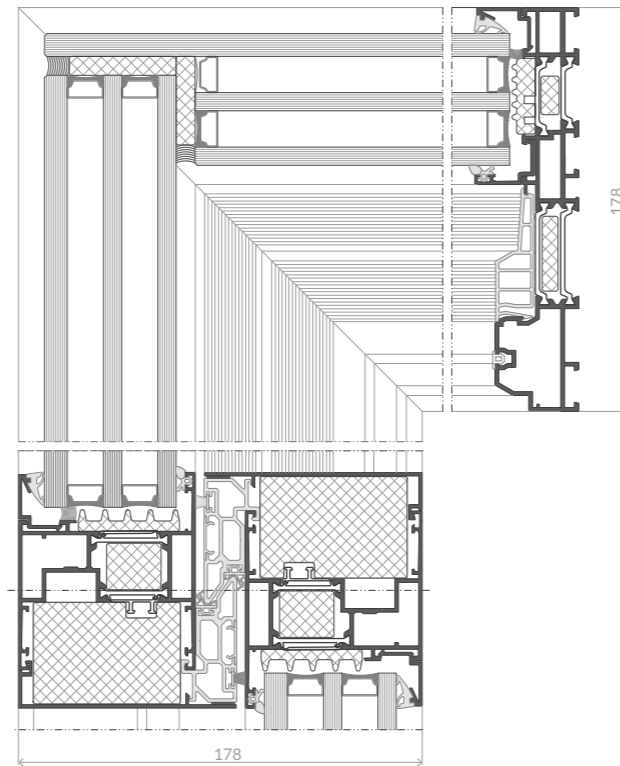


AS 178HS PRO SLIM

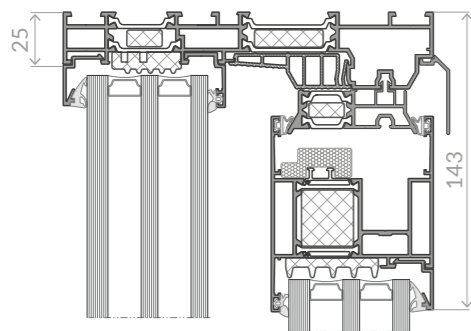
Vertical section - frame with fixed glazing



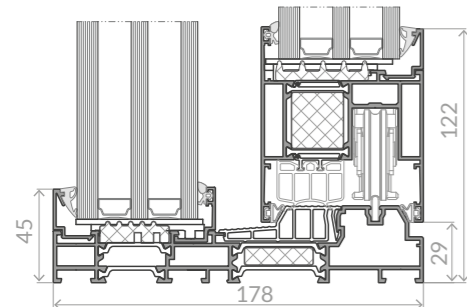
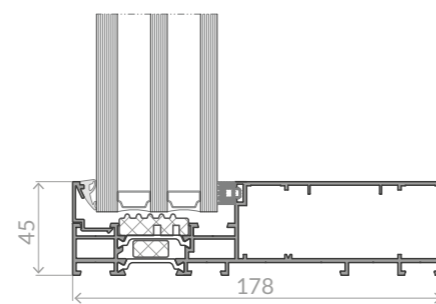
All-glass corner in the AS 178HS system



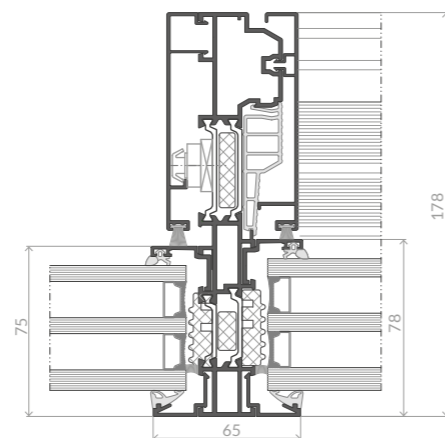
Vertical section - frame with fixed glazing (42 mm hardware groove)



Cross-section through fixed frame

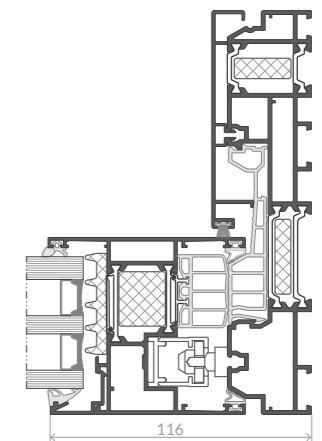
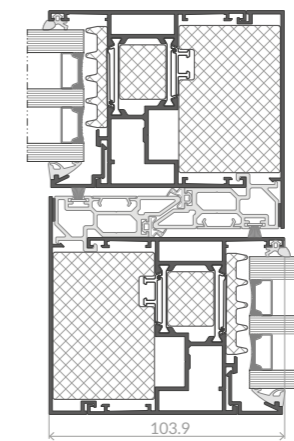
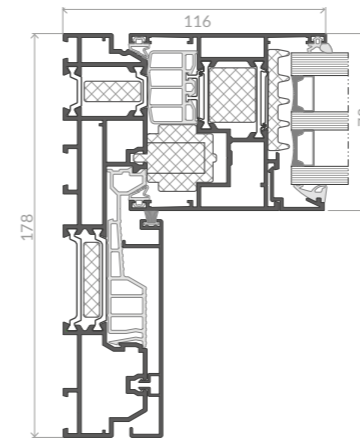


Combination of AS 75 with AS 178HS

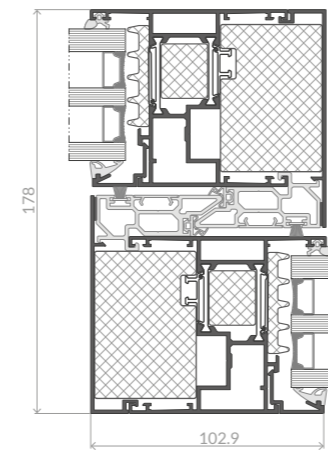


AS 178HS PRO SLIM

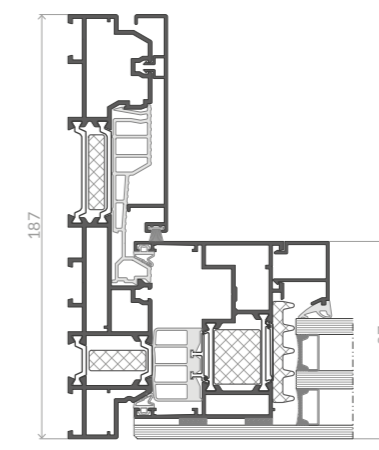
Horizontal section



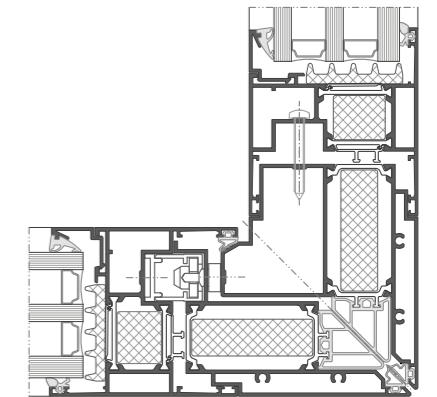
Standard variant



Variant with stepped glazing

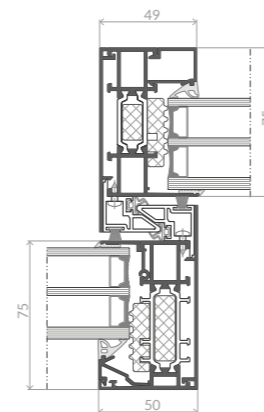


Section through two leaves opening in the corner

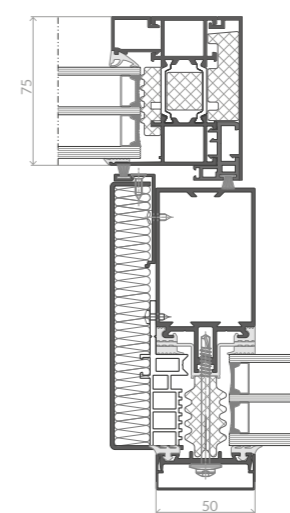


AS AD 75

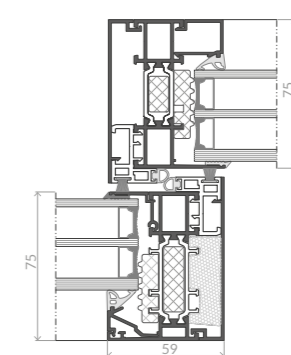
Section with labyrinth



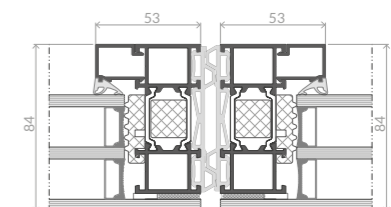
Section through facade door



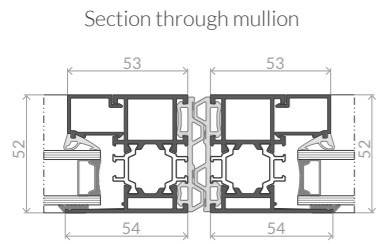
Section through mullion with seal



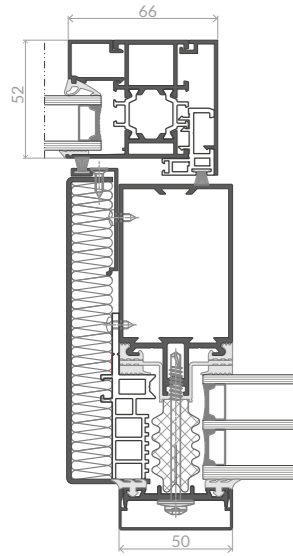
Section through an all-glass double-leaf door



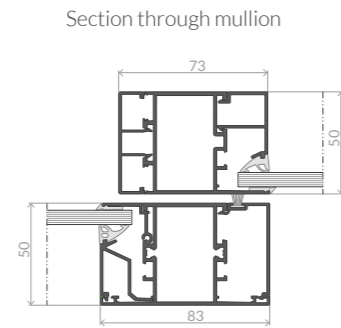
AS AD 52



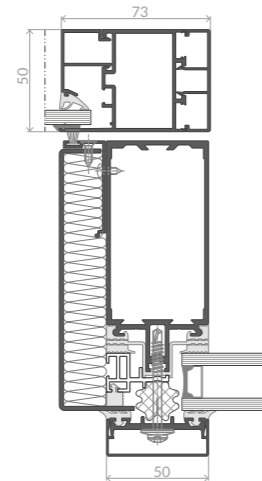
Automatic door in facade



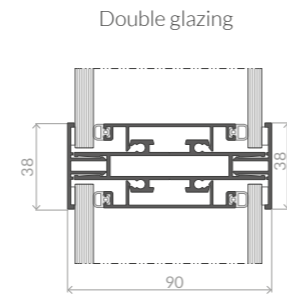
AS AD 50



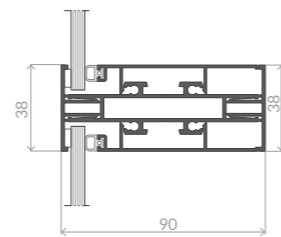
Automatic door in facade



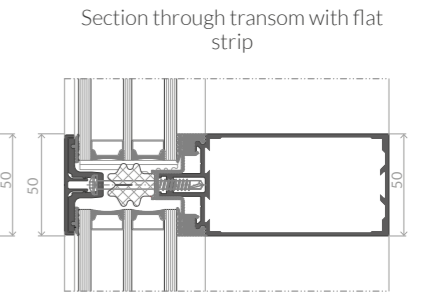
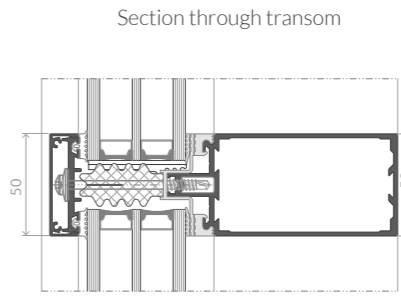
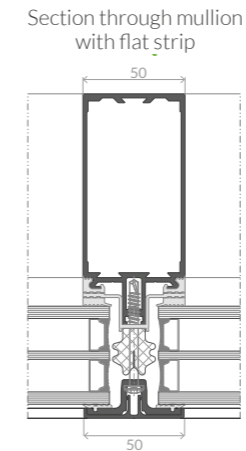
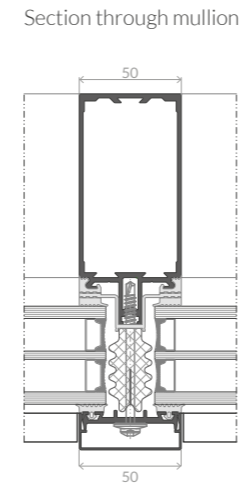
ACS 38



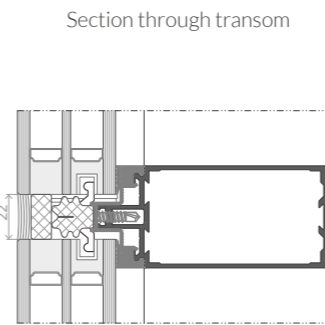
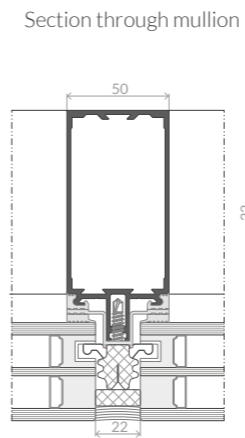
Single glazing



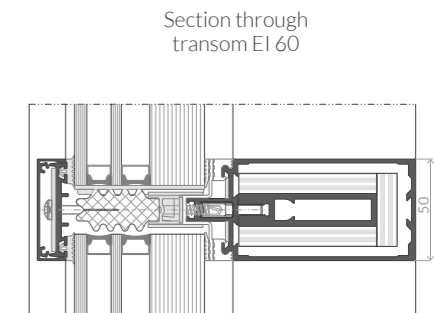
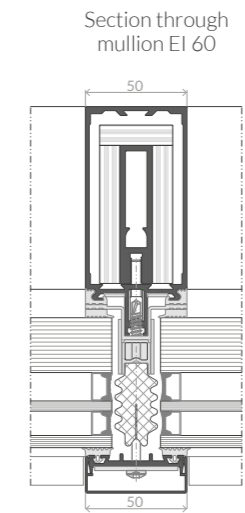
AF 50



AF 50S

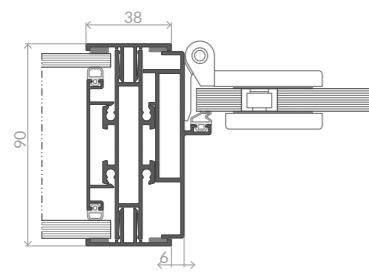


AF 50EI

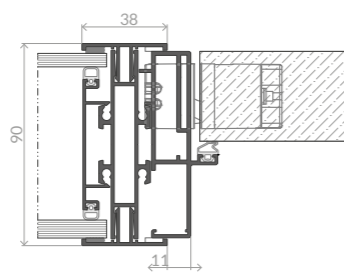


ACS 38 door integration

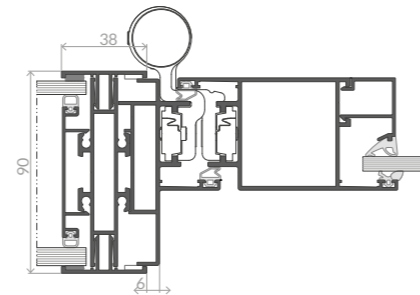
All-glass door



Panelled door with hidden hinge

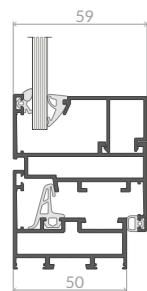


Aluminium door ACS 50

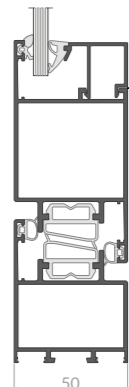


ACS 50

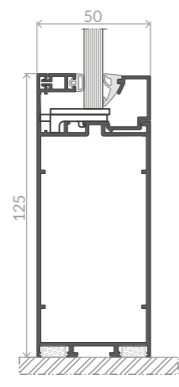
Window



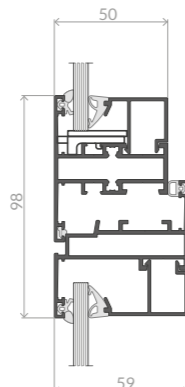
Door



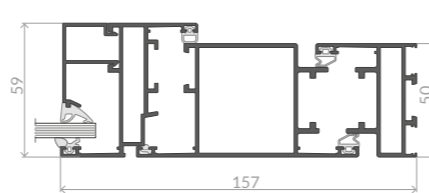
Central glazing



Feeding window - vertical section

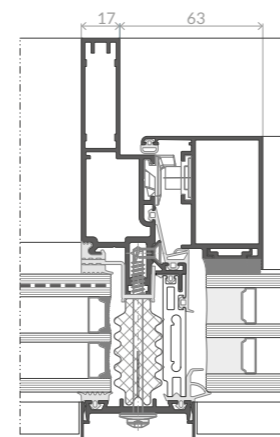


Feeding window - horizontal section

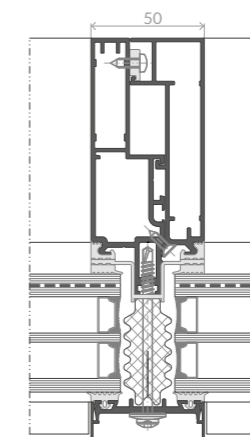


IW 50

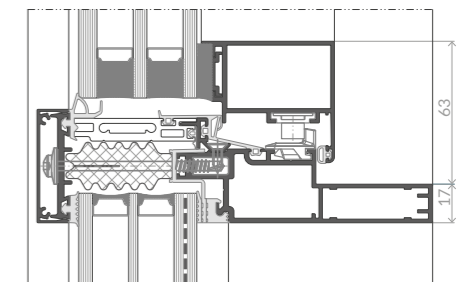
Section through mullion with window - variant IW AF 50



Section through transom with window - variant IW AF 50KW

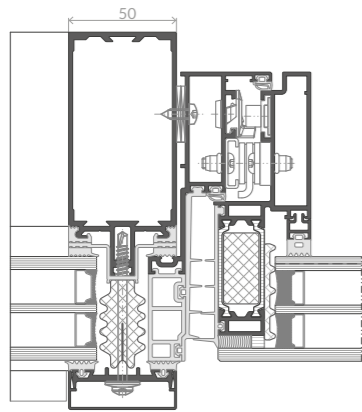


Section through transom with window - variant IW AF 50KW

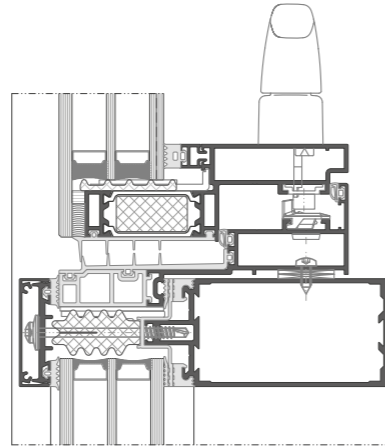


AF 50W

Section through mullion with window

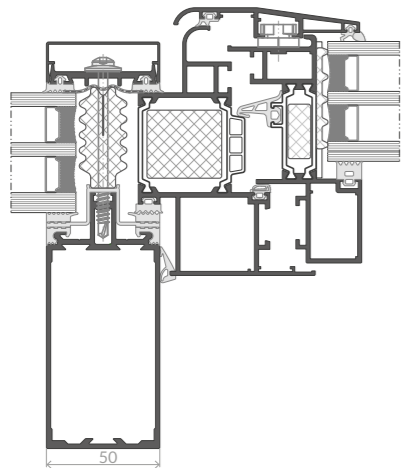


Section through transom with window

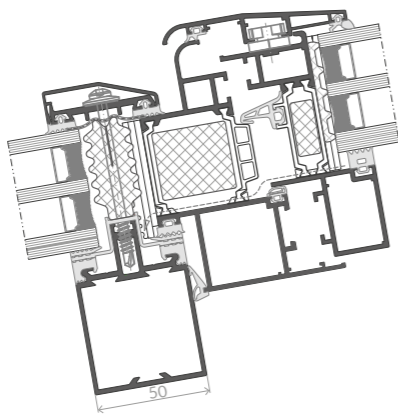


AF 50R

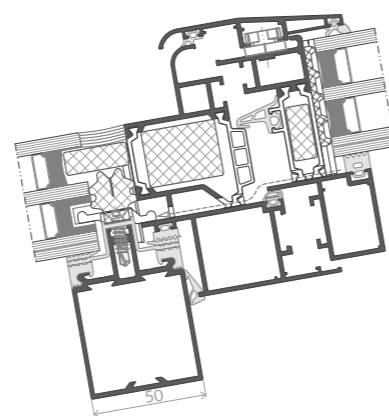
Section through rafter with roof window



Section through purlin with roof window

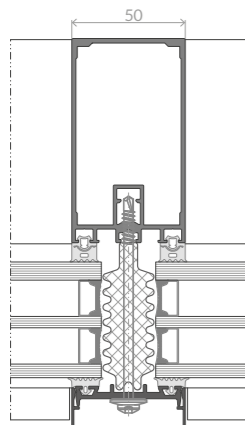


Section through purlin with roof window

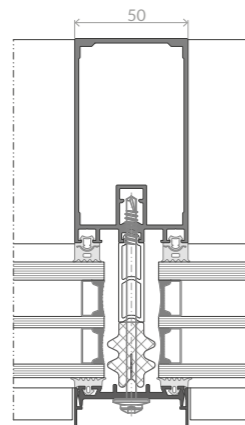


ATF 50 block seal

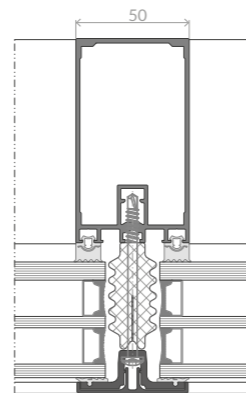
Section through mullion



Section through mullion

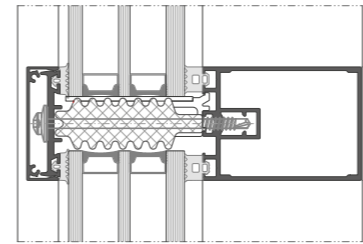


Section through mullion with flat strip

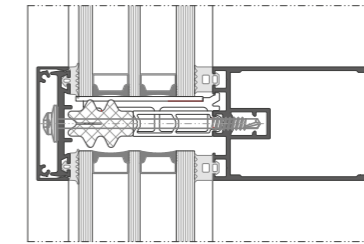


ATF 50 block seal

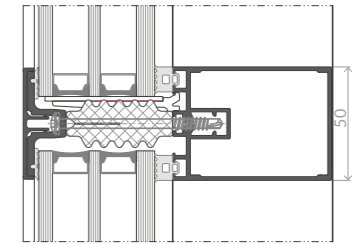
Section through transom



Section through transom

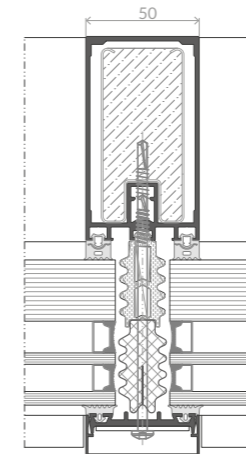


Section through transom with flat strip



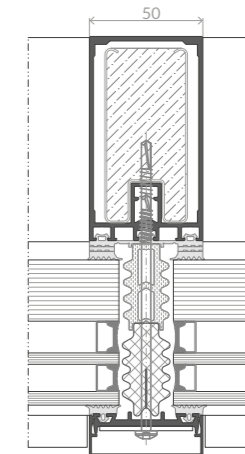
ATF 50EI block seal

Section through mullion EI 30/EI 60

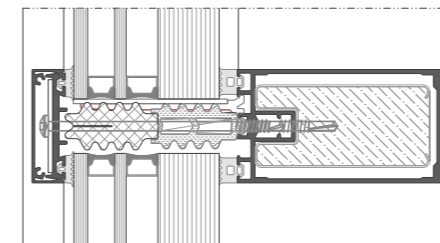


ATF 50EI sheath seal

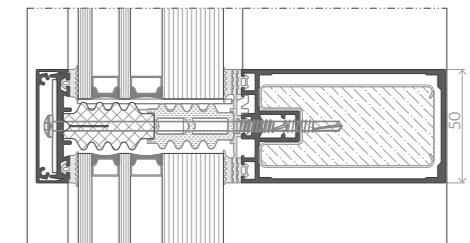
Section through mullion EI 30/EI 60



Section through transom EI 30/EI 60

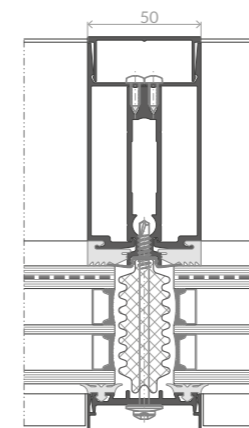


Section through transom EI 30/EI 60

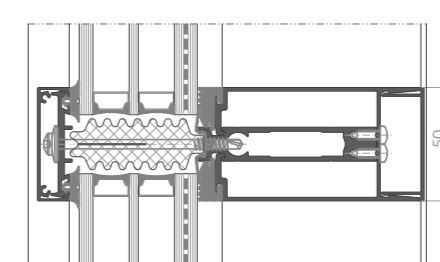


AF 50KW QUANTUM

Section through mullion

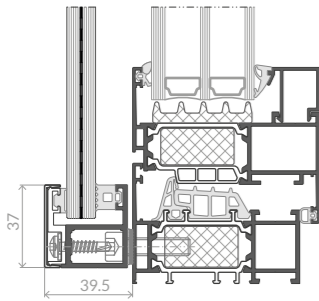


Section through transom

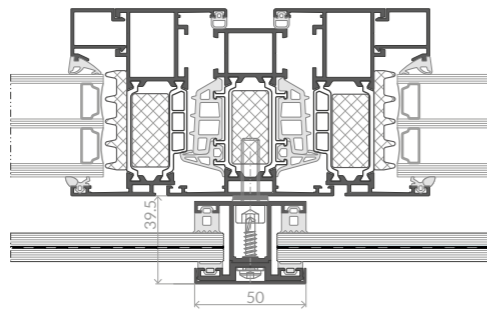


AS VGB

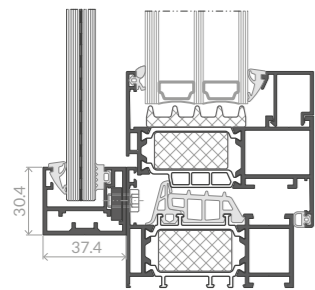
Window end mullion



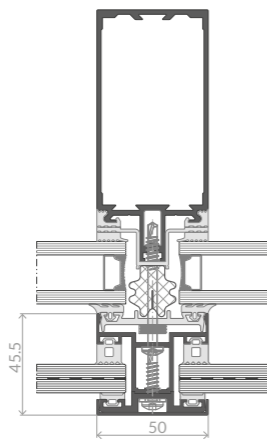
Window intermediate mullion



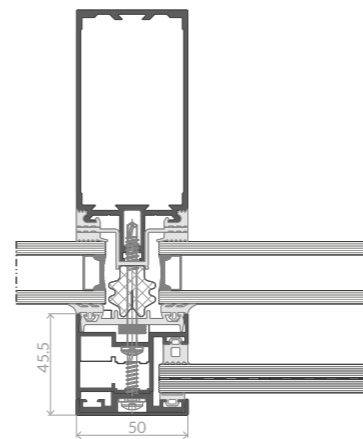
Single-profile window end mullion



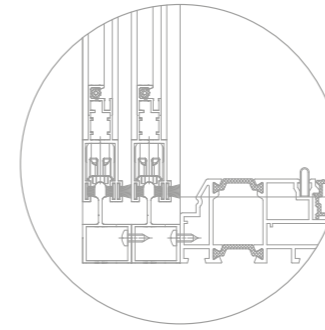
Intermediate mullion in facade



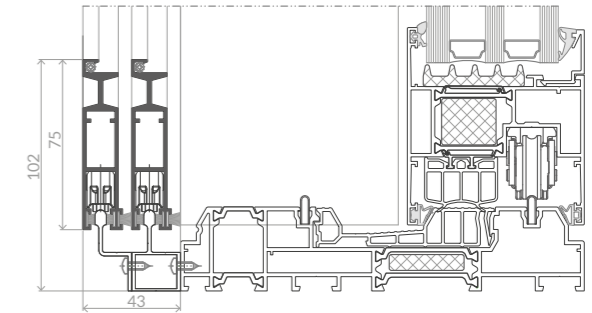
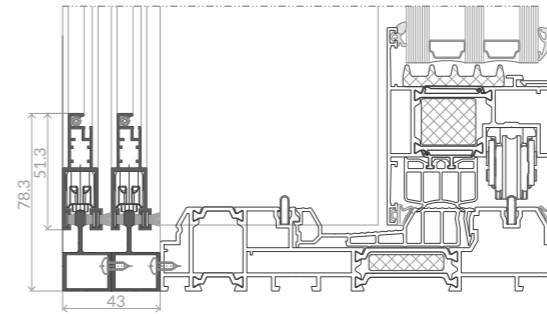
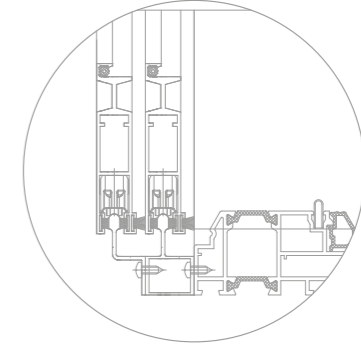
End mullion in facade



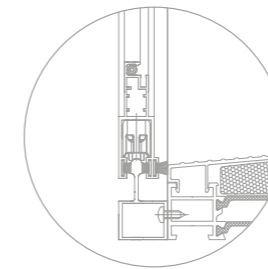
Sliding mosquito net



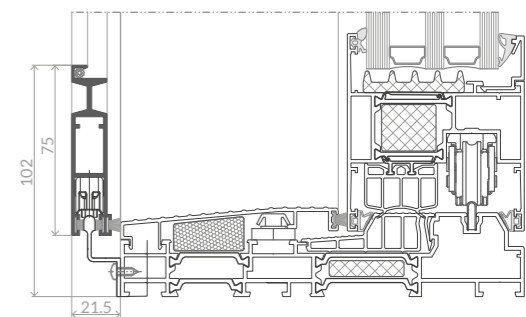
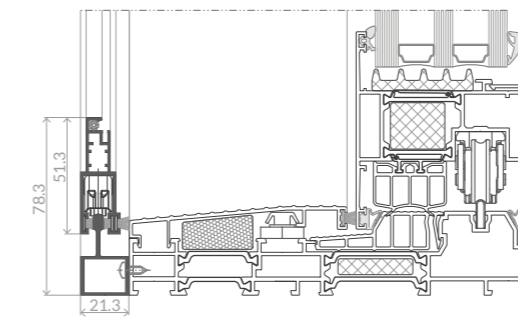
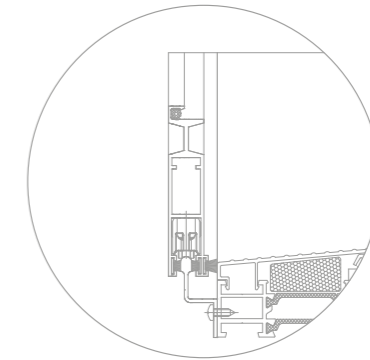
Sliding mosquito net



Sliding mosquito net

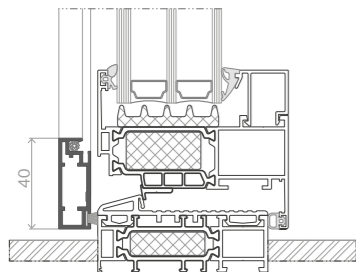


Sliding mosquito net

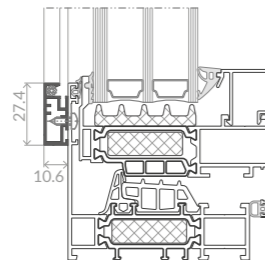


ASM

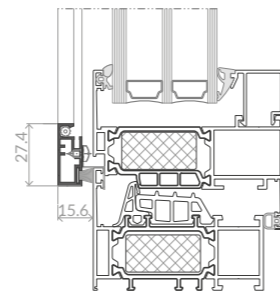
Mosquito net for balcony door



Screw-on frame mosquito net













Frame mosquito net with catches





DESIGN & FUNCTIONALITY

-  System corners joined at 45°.
-  Corner joints with „invisible weld” technology to guarantee a smooth, uniform surface.
-  Mechanical jointing of corners using fasteners with visible cut edges.
-  Easy and quick installation in production conditions.
-  Wide range of available designs.
-  Proprietary software for preparing quotes and placing orders.
-  Universal system seals used interchangeably or together with seals from PVC manufacturers.
-  A solution compatible with Classic and Soft Line aluminium window sills.
-  An option for using the Gemini Insecta system frame mosquito net.
-  An option to install an independent balustrade with the Gemini VGB extension profile.

PVC-Aluminium Systems **GEMINI** for windows and doors

The Gemini series products are professional and complete cladding systems for the production of PVC-aluminium windows and doors.

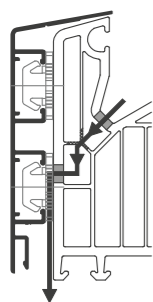
They are supplied to the customers in the form of prefabricated frames, perfectly matched structurally to the solutions provided by the PVC system providers. Aluminium frames form an independent structure in relation to the window and door. This translates into proper and safe operation of the window in changing temperature conditions and easy removal of the cladding in the event of damage. They are mounted using system strikers screwed to the window body.

Gemini cladding has a positive impact on the acoustic comfort of users. They improve the statics of windows and doors, making it possible to build bigger constructions than the PVC standard. They increase protection against the negative effects of UV radiation. They make it possible to match the design of plastic structures with aluminium or wood-aluminium joinery.

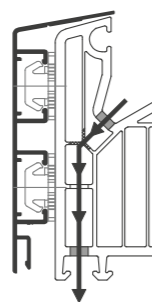
Thanks to its frame-welding capabilities and its curve-bending department, Aluron is able to create cladding to suit unusual window shapes: curved, round, trapezoidal and others.

THREE TYPES OF CONSTRUCTION DRAINAGE:

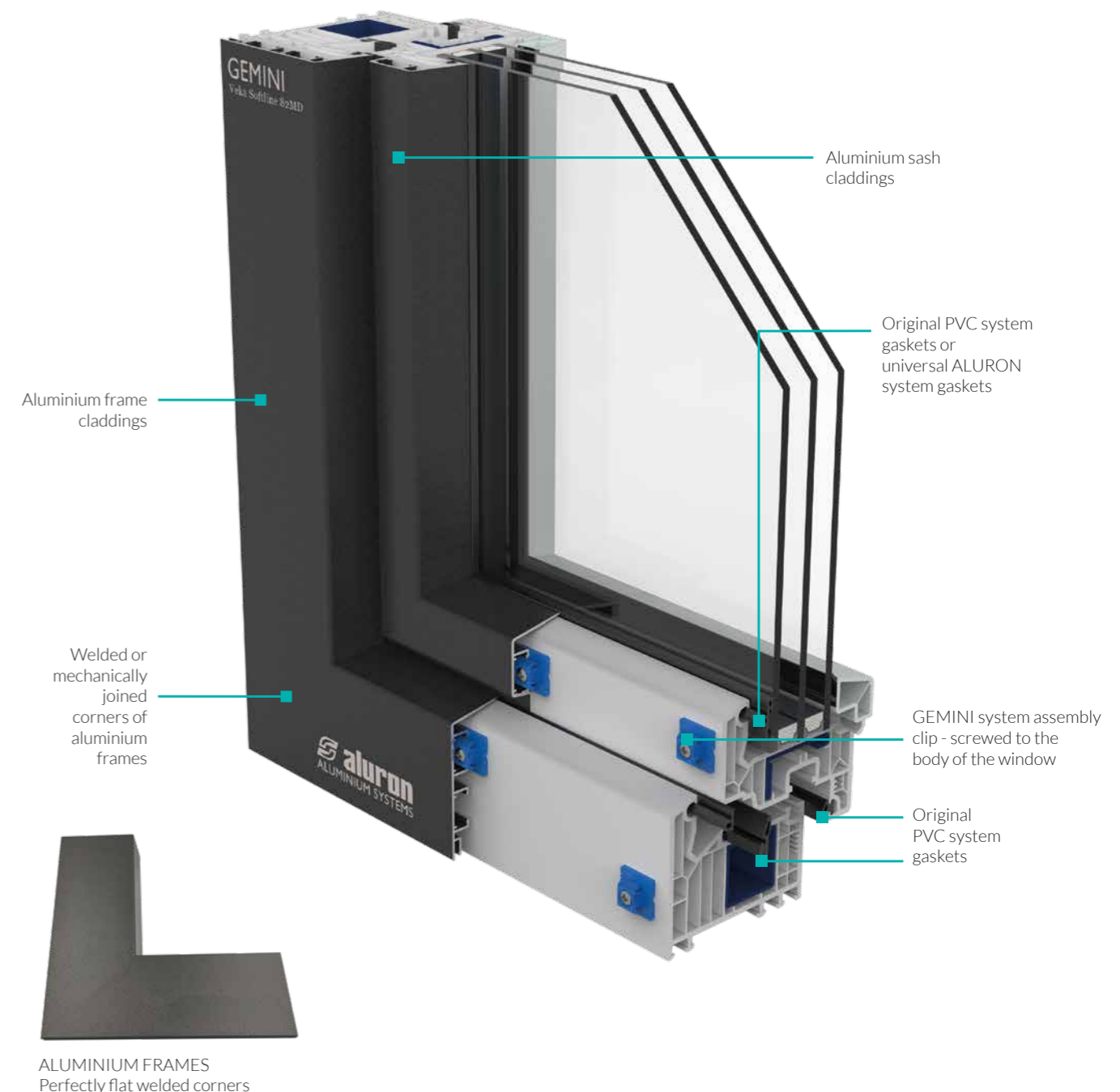
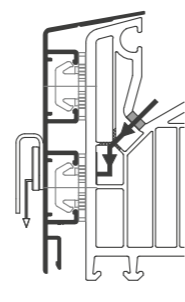
Water drainage - front, PVC under an aluminum cladding (invisible drainage).



Water drainage - bottom

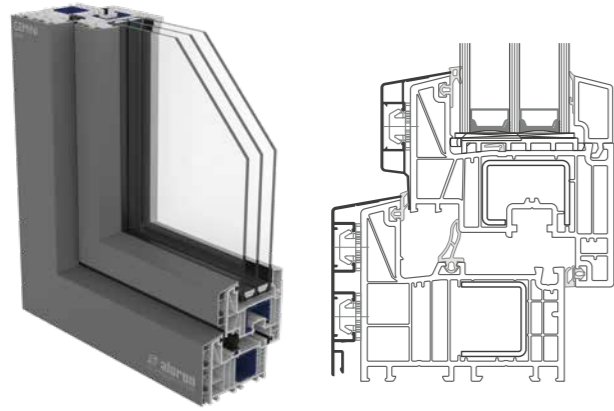


Water drainage - front + aluminium end plug

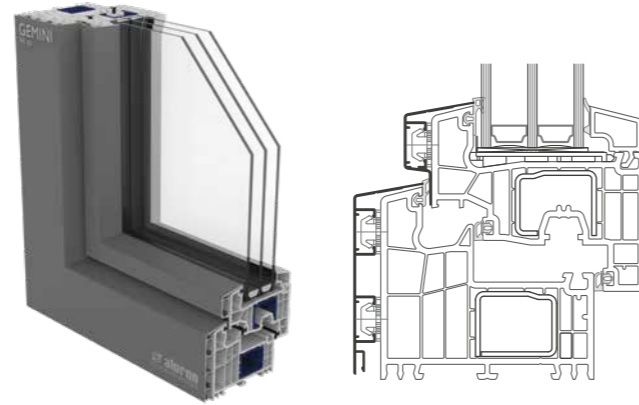


OVERVIEW OF GEMINI PVC-ALUMINIUM SYSTEMS

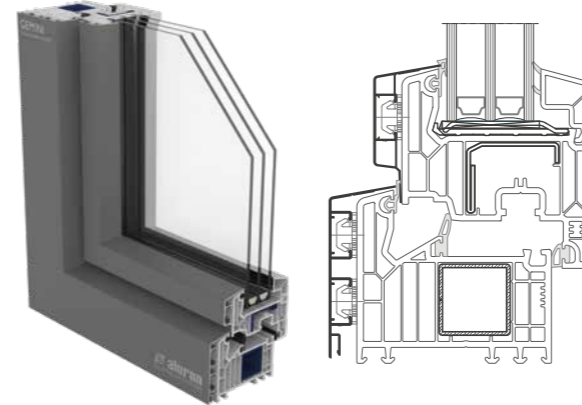
GEMINI bE82
SALAMANDER



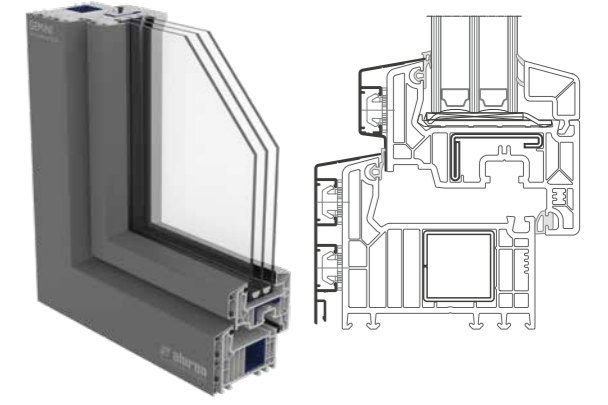
GEMINI bE92
SALAMANDER



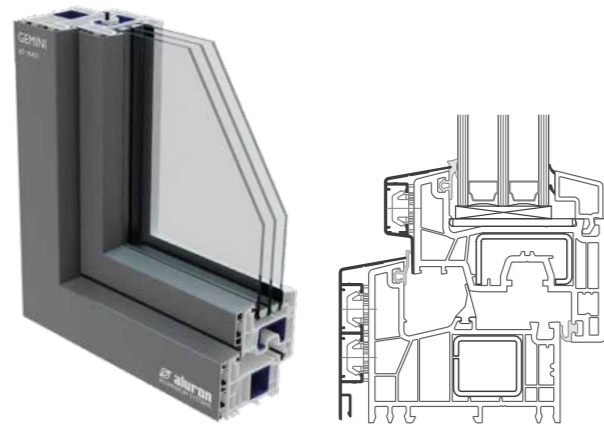
GEMINI SOFT LINE 82 MD
VEKA



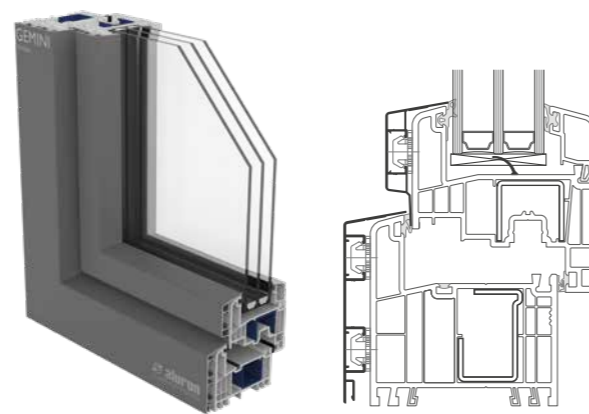
GEMINI SOFT LINE 82 AD
VEKA



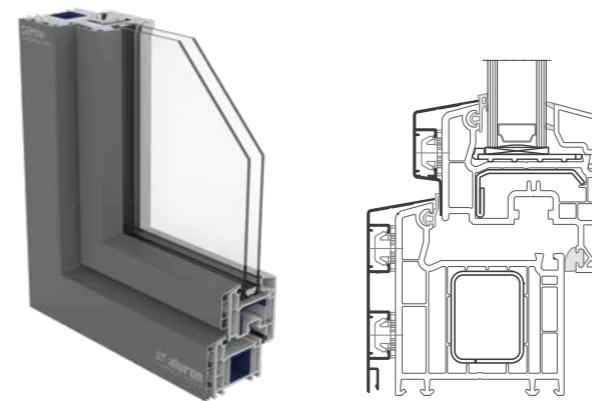
GEMINI gE76
SALAMANDER



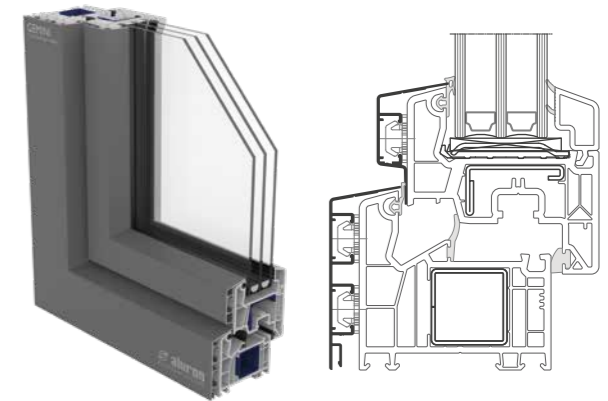
GEMINI 9000 S
GEALAN



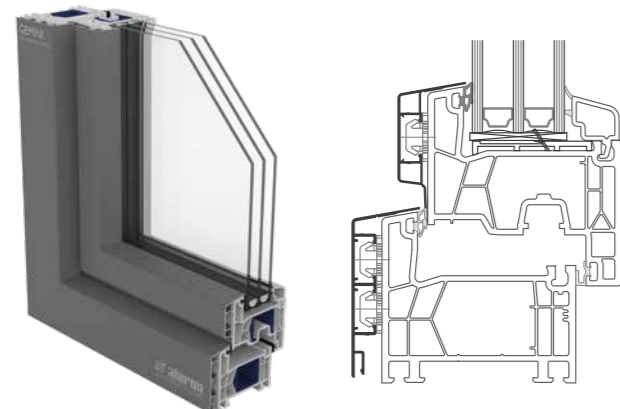
GEMINI SOFT LINE 70 AD + MD
VEKA



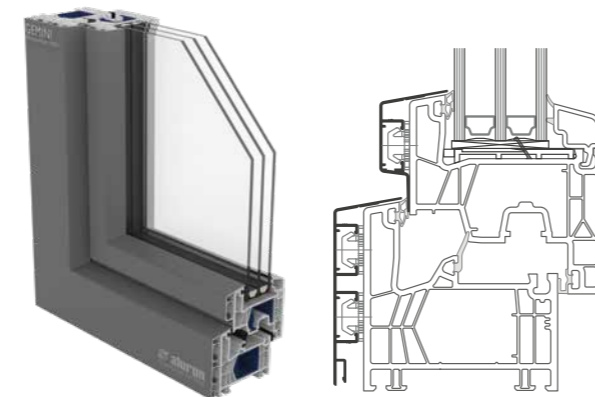
GEMINI SOFT LINE 76 MD +AD
VEKA



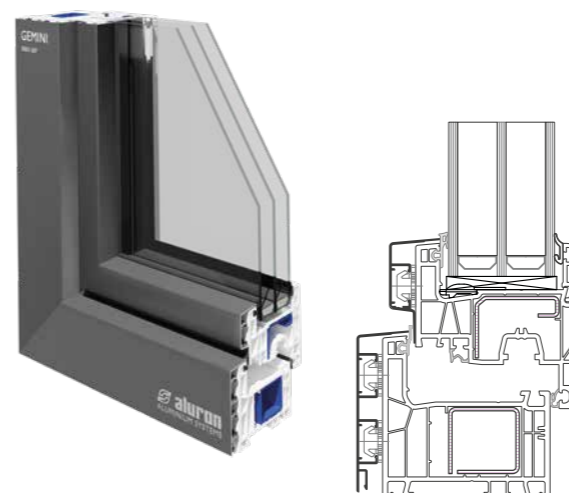
GEMINI 76 AD
KÖMMERLING



GEMINI 76 MD
KÖMMERLING

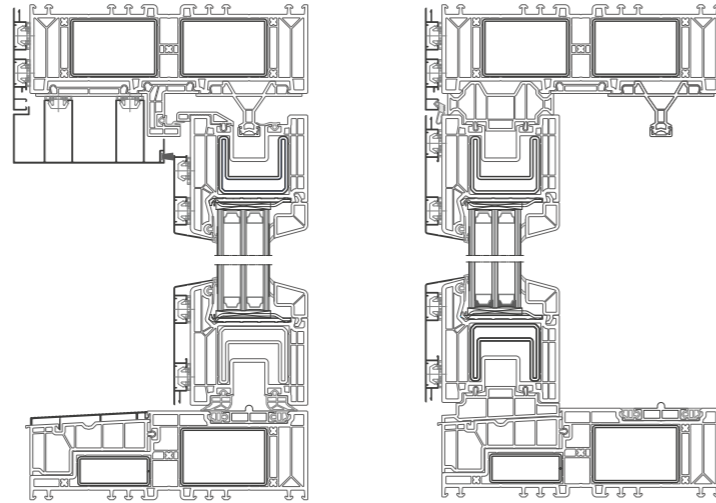
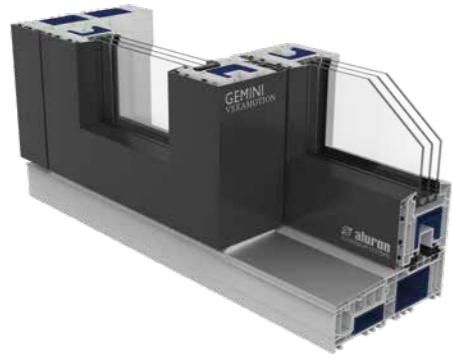


GEMINI NEO
ALUPLAST



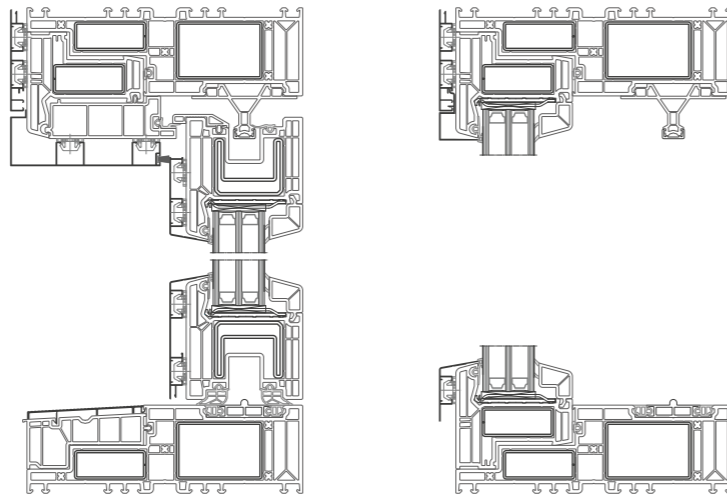
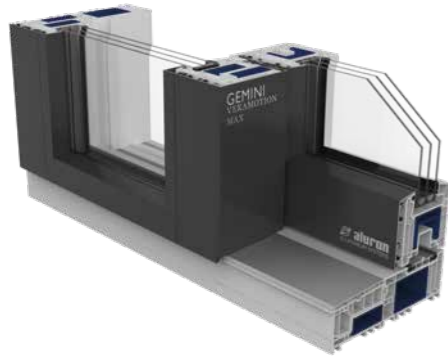
GEMINI VEKAMOTION 82

VEKA



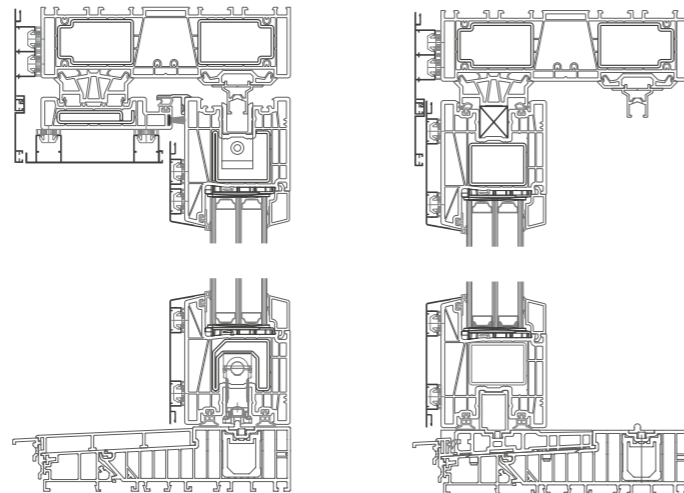
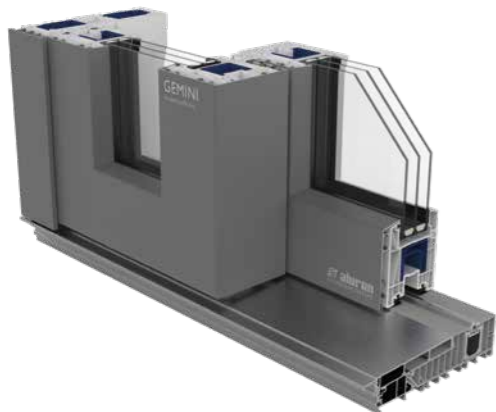
GEMINI VEKAMOTION 82 MAX

VEKA



GEMINI evolutionDrive

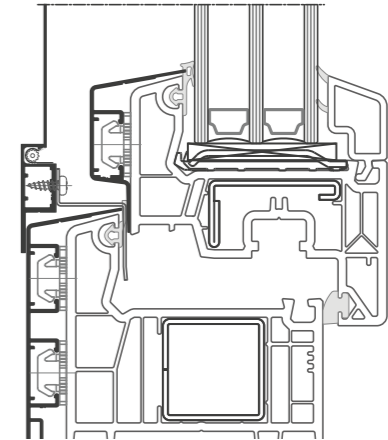
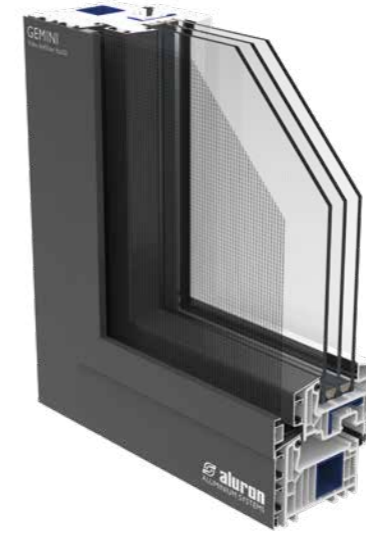
SALAMANDER



GEMINI INSECTA

Mosquito nets for windows, doors, and sliding doors

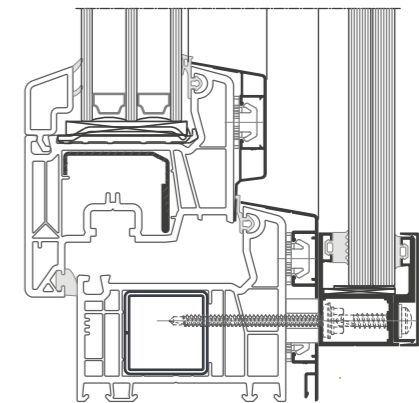
The frame mosquito net consists of an aluminium frame, a net with a gasket, a brush gasket, mounting clips, brackets, and hinges. The GEMINI INSECTA mosquito net is offered in a processed form, as a ready-made mosquito net frame, in the ordered dimensions, profile colour, net and the selected equipment.



GEMINI VGB

Window balustrades











Having a protective and decorative function, also known as French balconies. The open balcony space is separated from the outside and protected by a glass barrier and aluminium profiles system. In system VGB, the overhead aluminium profile is screwed to the window structure from the outside. The offer includes prefabricated aluminium profiles, cut to size, with holes and cuttings provided for assembly and a set of necessary accessories.





La Scala Apartments in Warsaw

DESIGN & FUNCTIONALITY

-  Complete gutter system.
-  Profile bending is possible in the case of transom 50.
-  High tightness thanks to the use of coat seals.
-  Compatible with Gemini window and door systems: Classic, Linear, Quadrat, Quadrat FB, Integral I and II.
-  Possibility of using glazing units of different thickness inside one mullion/transom thanks to the use of levelling profiles.
-  Various cap profiles, including with wooden cladding.
-  Up to 3 levels of drainage possible.
-  Wide range of available installation variants.
-  Vella S system available with structural glazing technology.
-  Vella S - three ways of fixing the glass: holding by the inner pane, by the glued-in frame or pointing by the glued-in fasteners.

VELLA mullion and transom facade

Vella is a wood-aluminium system designed for the construction of facades and winter gardens.

The load-bearing structure is made of wooden mullions with a thickness of 50, 60 or 80 mm and a depth adopted based on static calculations. The system consists of a wide variety of aluminium profiles, seals and insulators. It ensures permanent fixing of the glass, extraordinary tightness, high thermal parameters and guarantees excellent protection for wood.

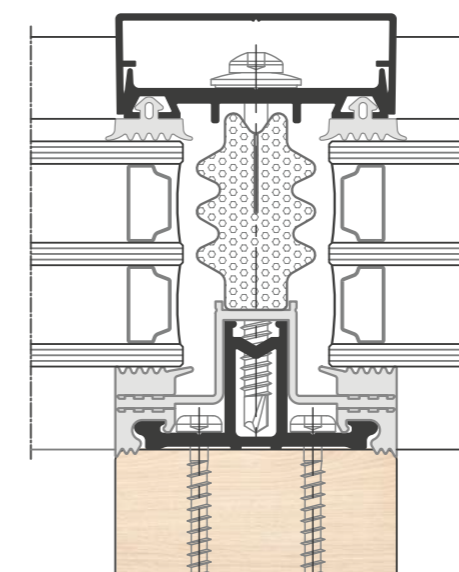
The mullions and transoms of the Vella system are connected using RICON connectors, which are capable of bearing loads of up to 550 kg due to the weight of the glass. All connectors are mounted invisibly to the user. What is more, they are removable, making pre-assembly possible.



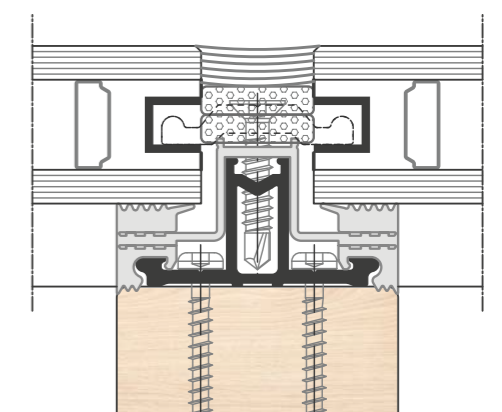
SYSTEM CHARACTERISTICS

from 0.614 W/m²K	up to 450 kg	up to 550 kg	9-60 mm	9-62 mm	50, 60, 80 mm	50 mm
Thermal Insulation U facade	Load bearing capacity of glass - conventional brackets	Load bearing capacity of glass - brackets reinforced, single/ double-sided cross	Glass section thickness for the Vella system	Glass section thickness for the Vella S system	Wood section thickness for the Vella system	Wood section thickness for the Vella S system

Section through facade Vella



Section through facade Vella S













SELECTED SYSTEM PARAMETERS

class AE 1500 Pa	class AE 1350 Pa	class RE 2400 Pa	class RE 2400 Pa	2400 Pa	class I1/E2	class I5/E6
Air permeability - wall without window	Air permeability - wall with window	Water tightness - wall without window	Water tightness - wall with window	Wind load resistance	Impact resistance - 1-chamber double-glazed unit	Impact resistance - 1-chamber toughened double-glazed unit



Mennica Residence apartments in Warsaw

DESIGN & FUNCTIONALITY

-  System corners joined at 45°.
-  Corner joints with „invisible weld” technology to guarantee a smooth, uniform surface.
-  Mechanical jointing of corners using fasteners with visible cut edges.
-  Easy and quick installation in production conditions.
-  Optional bending of sash and frame profiles to create structures with unusual shapes.
-  Proprietary software for preparing quotes and placing orders.
-  Glazing from the outside with aluminium strip in systems: Linear, Quadrat, Quadrat FB, SI Standard and SI Sky
-  A solution compatible with Classic and Soft Line aluminium window sills.
-  An option for using the Gemini Insecta system frame mosquito net.
-  An option to install a Gemini IGB balustrade integrated into the cladding or an independent balustrade with Gemini VGB extended profile.

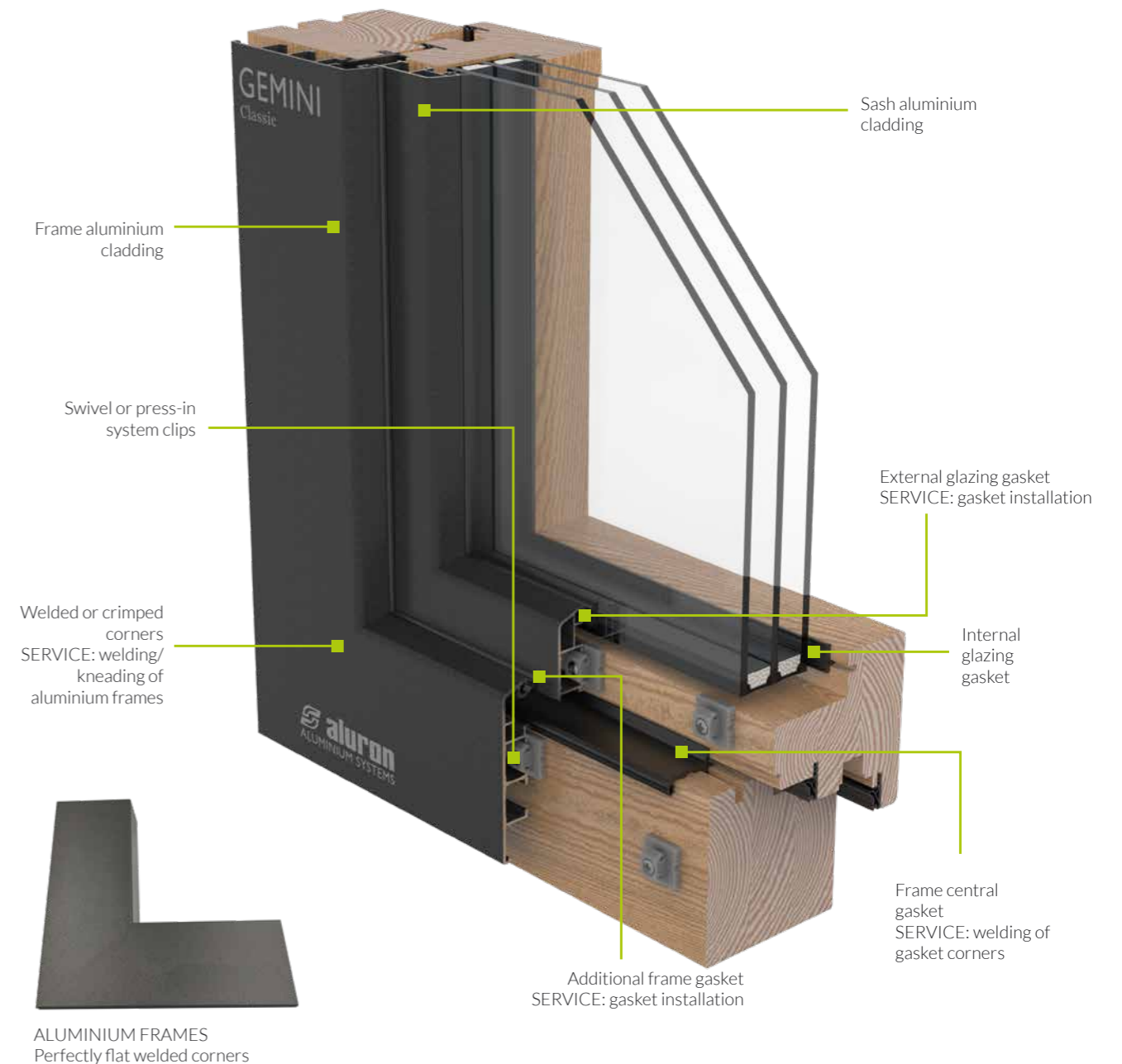
GEMINI wooden-aluminium systems for windows and doors

Gemini products are complete cladding systems for the manufacture of wooden-aluminium windows, doors and lift-and-slide structures.

They are supplied to customers in the form of pre-fabricated frames compatible with cutters from leading woodwork manufacturers. The solution combines the natural warmth and exclusivity of wood with the durability and versatility of aluminium, creating a PREMIUM quality product.

Aluminium cladding separates the wooden part of the window from the adverse effects of the weather, increasing the durability of the entire structure. Wooden-aluminium windows do not require labour-intensive maintenance. Gemini cladding positively influences the acoustic comfort of users. They improve statics and tightness of designed structures.

The aluminium frames form an independent structure in relation to the window and door. This translates into proper and safe operation of the window in changing temperature conditions and easy removal of the cladding in the event of damage. They are mounted using the system swivel and press-in strikers or, in selected systems, using concealed screws.



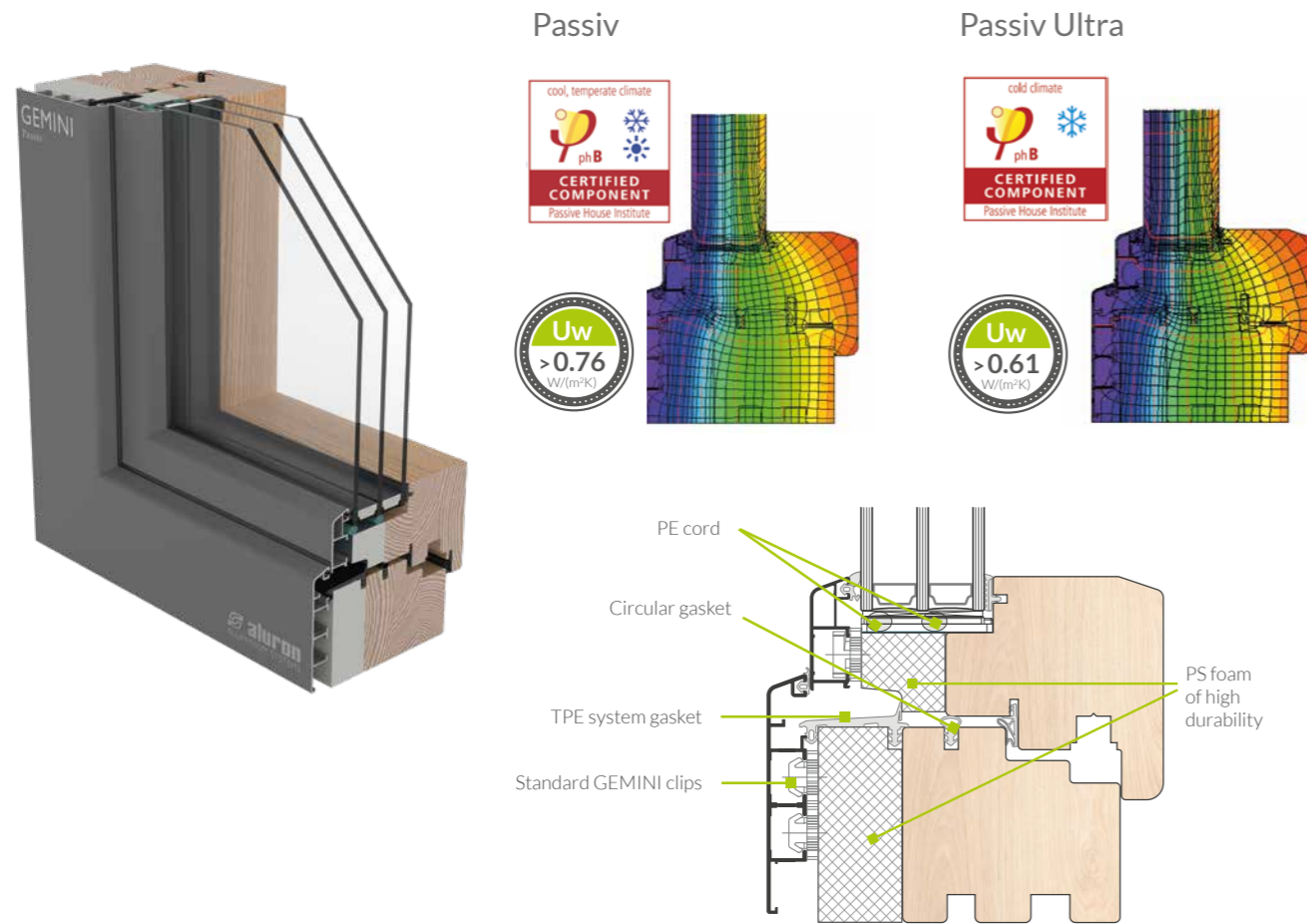
SELECTED SYSTEM PARAMETERS

Uw from 0.72 W/m²K	Uw from 0.61 W/m²K	class E1200 / 9A	class C3 / B3	class 4	68-92 mm	24-64 mm
Thermal insulation of conventional systems	Thermal insulation of passive systems	Water tightness	Wind load resistance	Air permeability	Wood section thickness	Glass packet thickness

SYSTEMS FOR PASSIVE HOUSING

Featuring innovative high-strength insulators based on foamed PS.

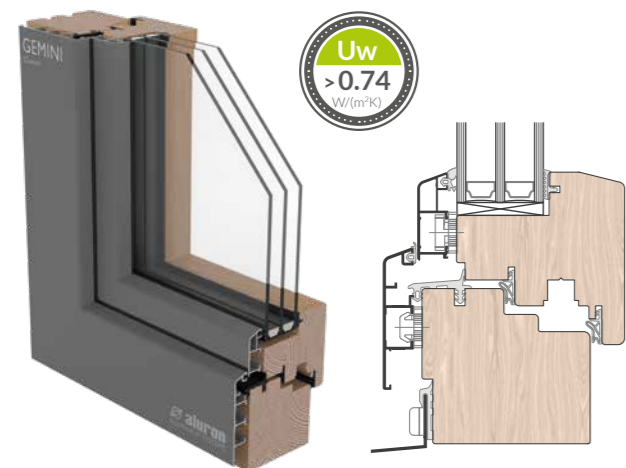
GEMINI Passiv / Passiv Ultra



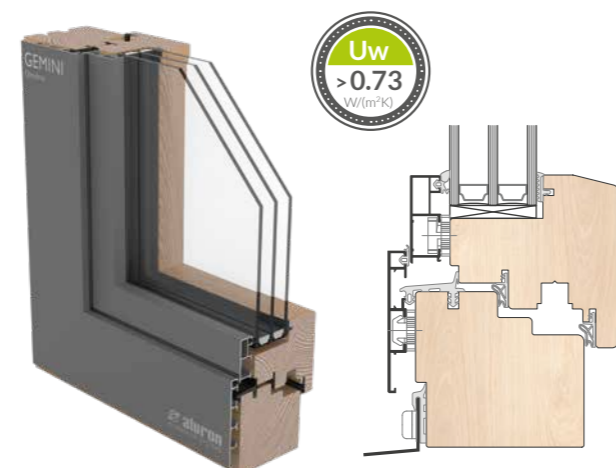
WINDOW SYSTEMS WITH CENTRAL SEAL

The solutions are equipped with a central seal welded at the corners made of TPE. In addition to providing high tightness properties, they are responsible for the controlled drainage of water to the outside of the structure.

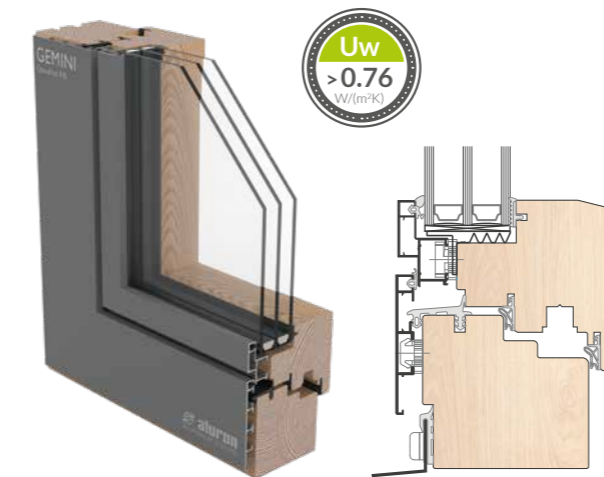
GEMINI Classic



GEMINI Quadrat

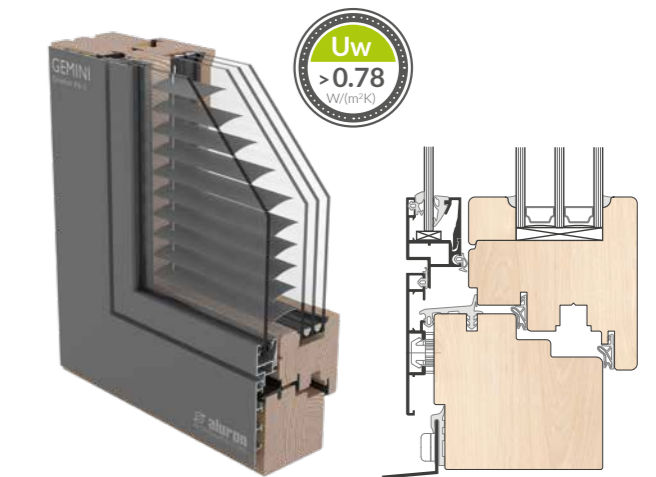


GEMINI Quadrat FB

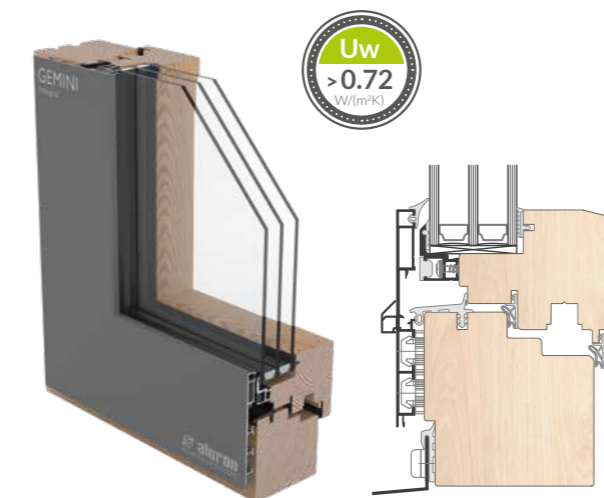


GEMINI Quadrat FB-V

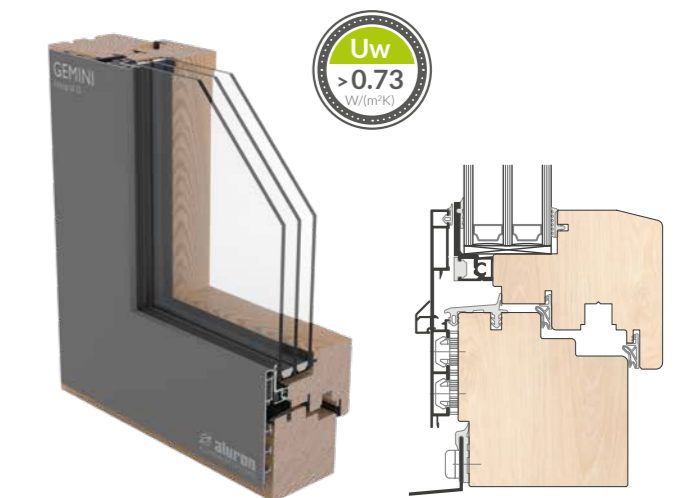
with integrated sun breakers



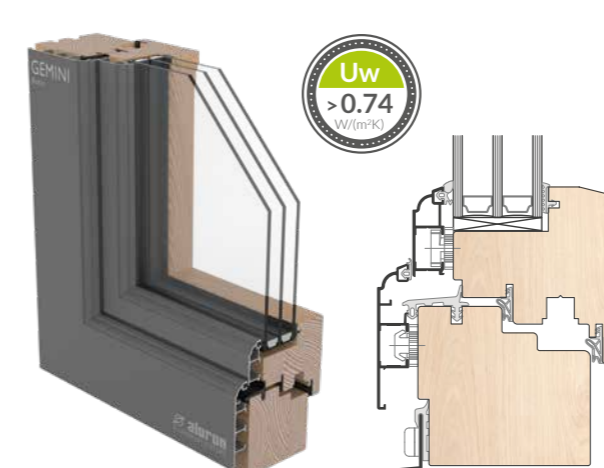
GEMINI Integral



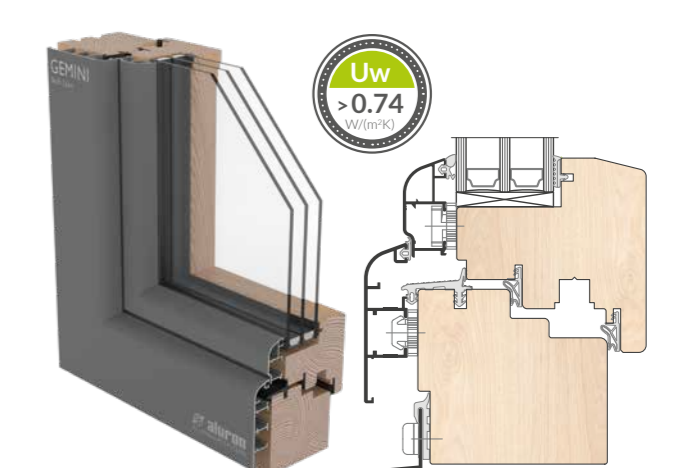
GEMINI Integral II



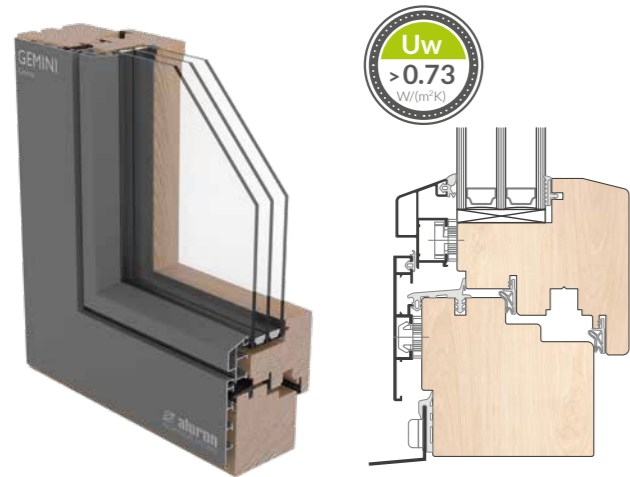
GEMINI Retro



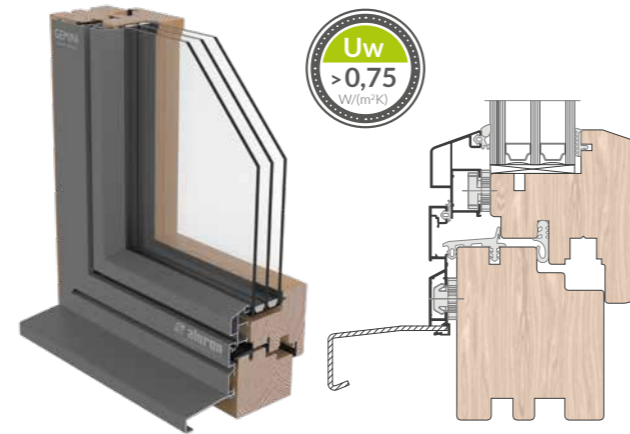
GEMINI Soft Line



GEMINI Linear



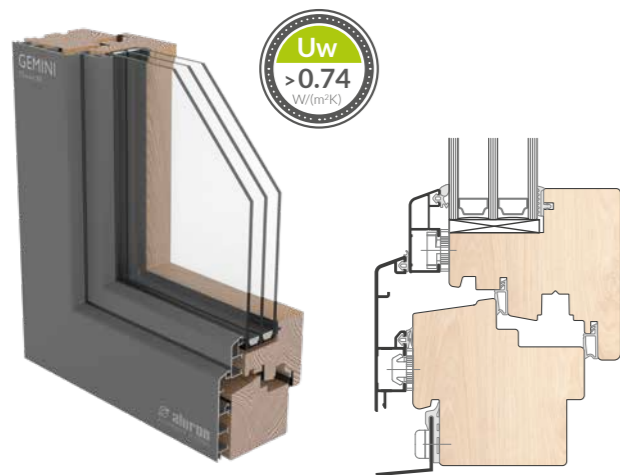
GEMINI SWISS Linear



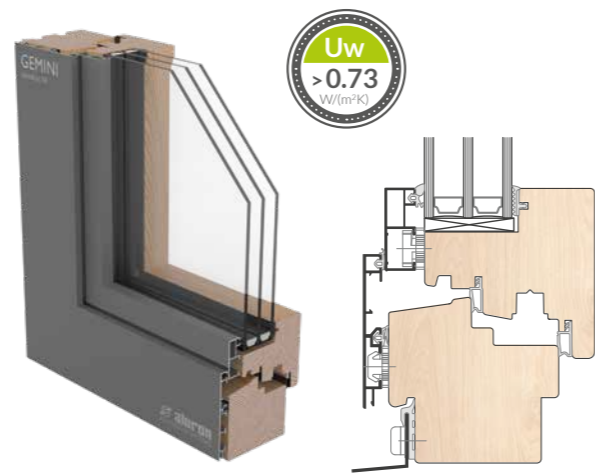
WINDOW SYSTEMS WITH A TRANSVERSE REBATE SF

In this group of GEMINI products the main frame gasket is replaced by a transverse rebate made in a wood frame. Water is drained through the transverse part of the frame rebate towards the drainage holes made in the aluminum profiles. The solution is provided for rebates being oblique in the range of 7-15 degrees.

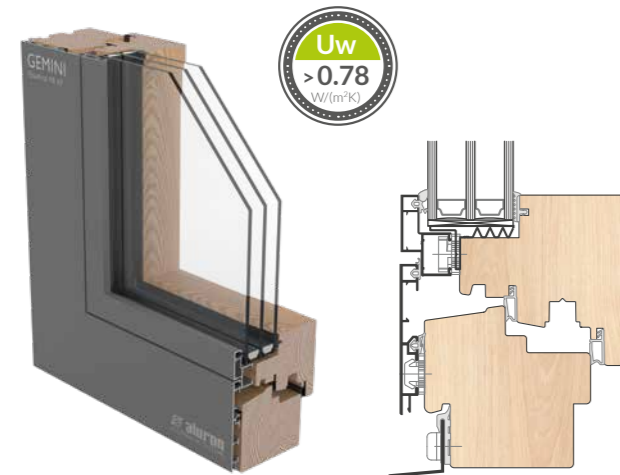
GEMINI Classic SF



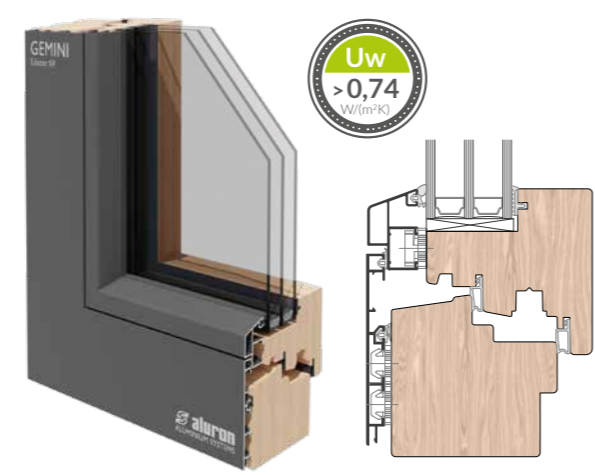
GEMINI Quadrat SF



GEMINI Quadrat FB SF



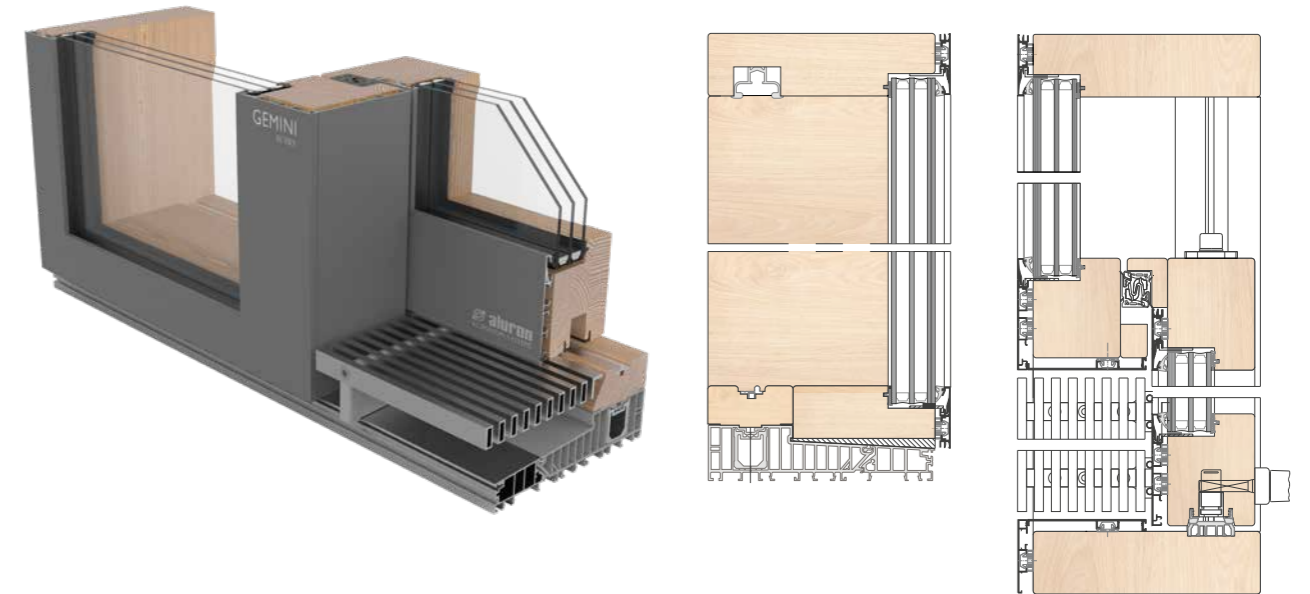
GEMINI Linear SF



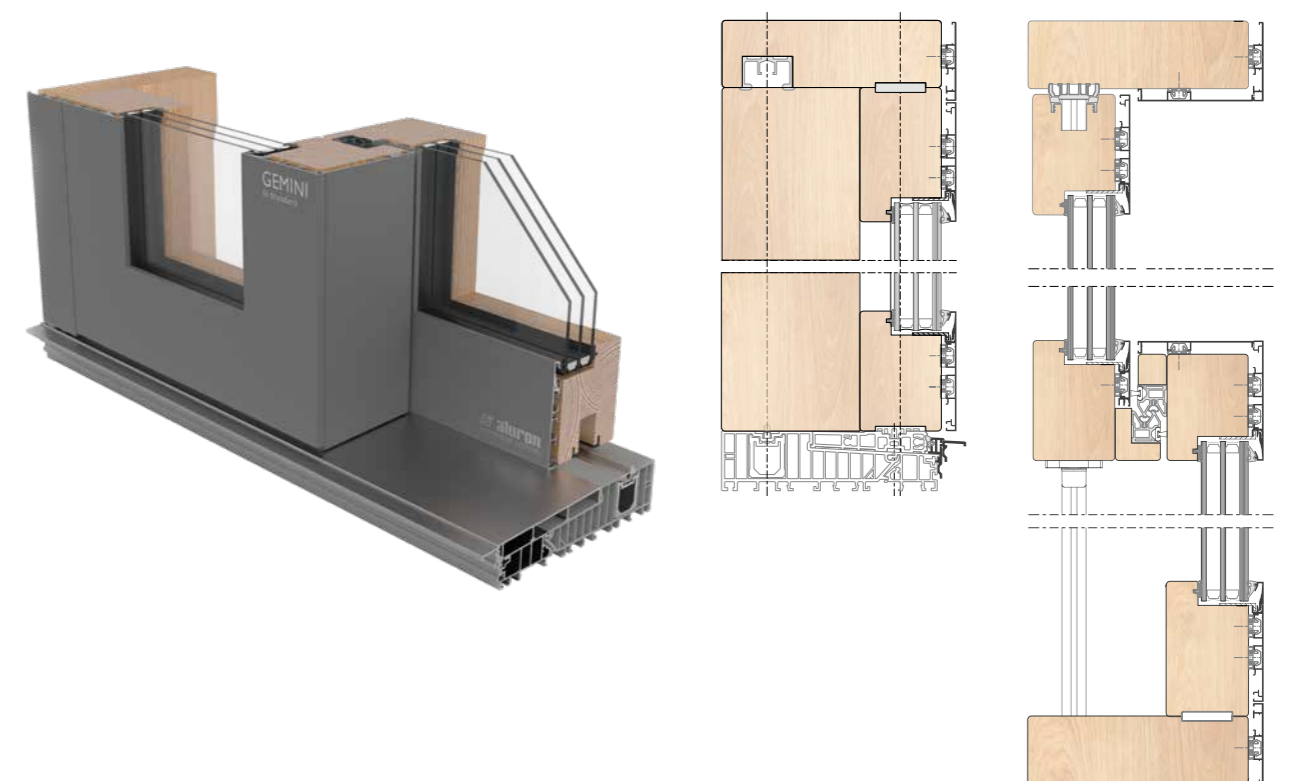
LIFT AND SLIDE DOOR SYSTEMS

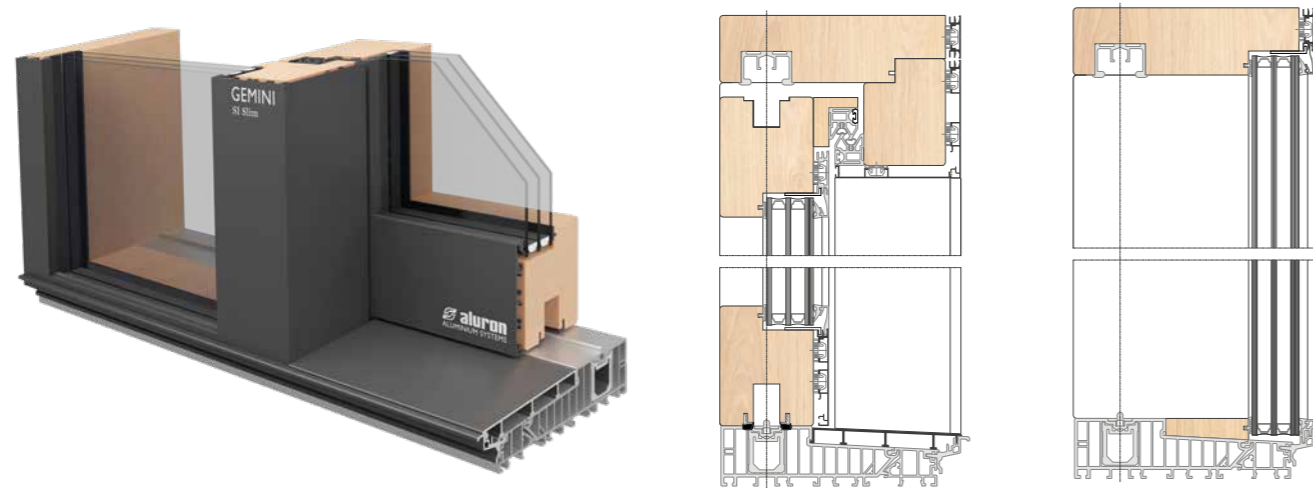
The products in this series are structurally based on Sigenia's EKO PASS and EKO PASS SKY threshold solutions. They are used to make wooden-aluminum HS doors in schemes A, C, G2, G3 and K. They are stylistically matched to the Gemini systems Quadrat, Linear and Quadrat FB. The recommended width of the timber leaf profile is 100-150 mm for GEMINI SI STANDARD and 100 mm for GEMINI SI SKY. A distinctive feature of the SI SKY solution is the absence of a typical fixed leaf.

GEMINI SI SKY



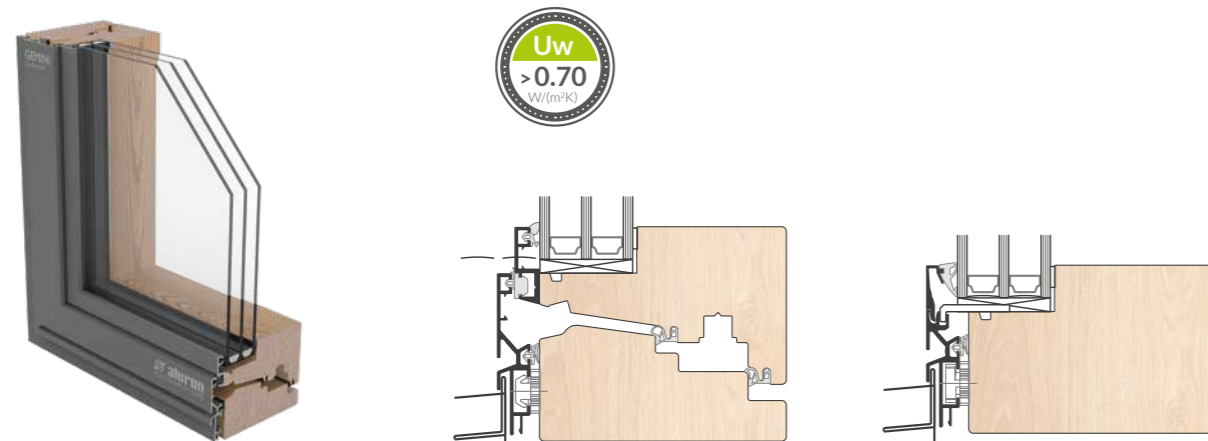
GEMINI SI STANDARD





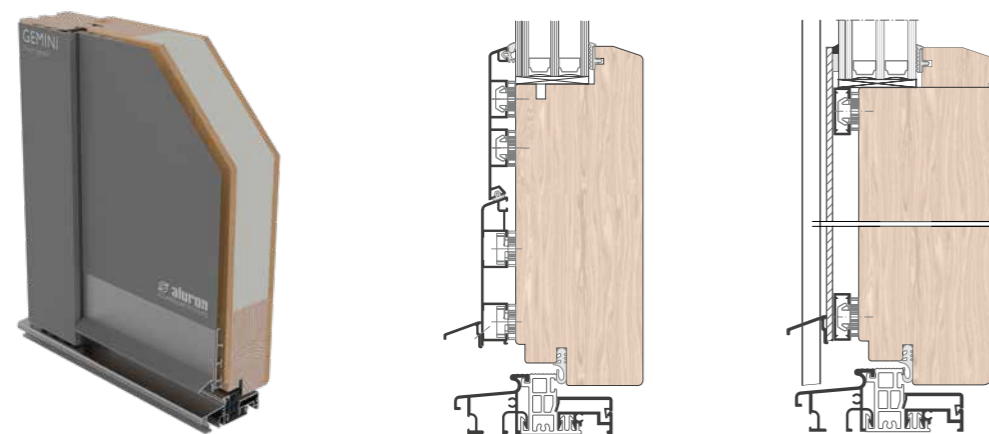
GEMINI CTS SYSTEM

Designed for windows with "Clima Trend Style" cutters. The CTS design allows the visible part of the profiles to be reduced to less than 100 mm. The option of using glass up to 70 mm wide has a beneficial effect on the thermal and acoustic parameters of the design.



GEMINI DOOR SYSTEM

Used for the construction of wooden-aluminium doors with infill and panel doors mounted with systemic mounting strikers.

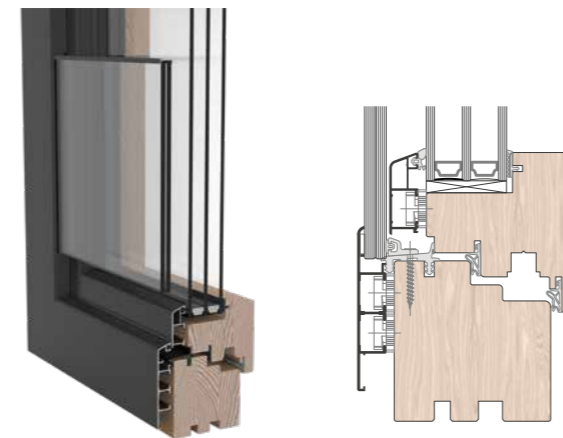


PREFABRICATED PRODUCTS ready for assembly

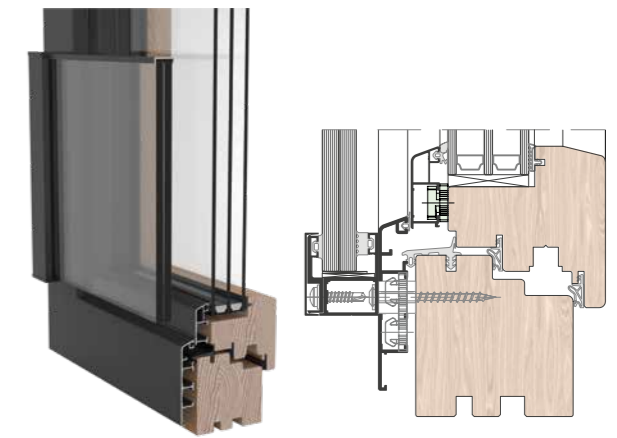
ALL-GLASS WINDOW BALUSTRADES

They have a protective function, protecting users against falling, and a decorative function, constituting an interesting architectural detail. Aluron offers two types of balustrades: integrated GEMINI IGB, B, in which the glass is built inside the window structure, in the aluminium profile of the frame and independent GEMINI VGB, B, in which the overhead profile is screwed to the window structure from the outside.

GEMINI IGB



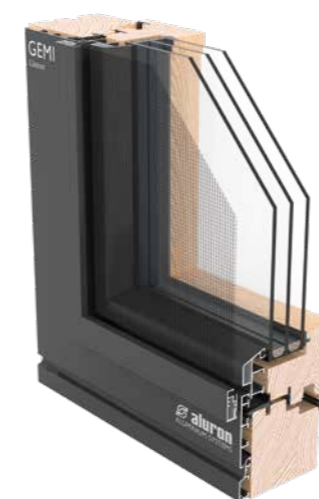
GEMINI VGB



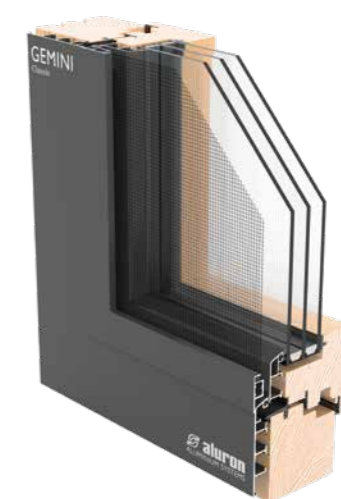
GEMINI INSECTA frame mosquito net systems

Mosquito nets are designed for windows, doors, and sliding doors. The frame mosquito net consists of an aluminium frame, a net with a gasket, a brush gasket, mounting clips, brackets, and hinges. The GEMINI INSECTA mosquito net is offered exclusively in a processed form, as a ready-made mosquito net frame, in the ordered dimensions, profile colour, net and the selected equipment. There are two variants of mosquito nets: with faced frame profile or with an overhead frame profile.

GEMINI INSECTA



GEMINI INSECTA



NORDIC I, III wood-aluminum systems for windows and doors

The Nordic system is a product dedicated mainly to Scandinavian markets. Its appearance refers to the shape of wooden windows popular in that region.

Nordic is compatible with most Scandinavian types of fittings, such as: PN Beslag, IPA or Spilka. The system allows for many variants of opening, e.g. tilting or rotating structures both in the horizontal and vertical axis. It is also available for windows of various and unusual shapes.

The NORDIC product group is available in two construction variants: **NORDIC I** - Offers the most variants of window opening, including rotation in the horizontal and vertical axes. Requires the use of specialized cutters.

NORDIC III - Allows the installation of aluminium cladding on wooden windows that open outwards with a standard construction. It does not require the use of specialized milling heads.



DESIGN & FUNCTIONALITY



System corners joined at 45°.



Wood section thickness 56-68 mm.



Corner joints with „invisible weld” technology to guarantee a smooth, uniform surface.



Optional bending of sash and frame profiles to create structures with unusual shapes.

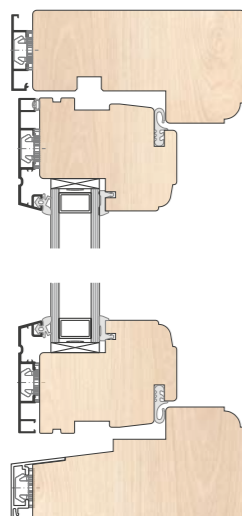


Mechanical jointing of corners using fasteners with visible cut edges.

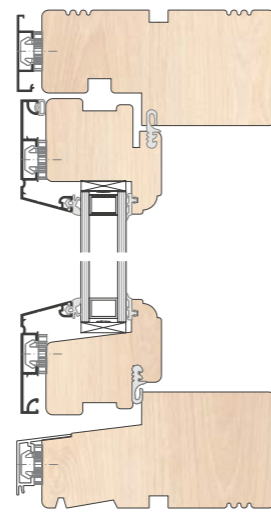


Glass packet thickness 24-44 mm.

Section through the Nordic I variant



Section through the Nordic III variant



SYSTEMS FOR WOODEN WINDOWS

Aluron's product range includes complete systems for wooden windows such as: drip profiles, glazing beads and aluminium thresholds. All those elements stand out due to their meticulous approach to execution. They are made of high quality materials, providing protection against UV radiation.

DRIP PROFILES

Gutter drip profiles are available with a thermal insert or fully aluminium in the Soft Line and Classic style. This range includes models for all of the most popular window millings as well as balconies and the Style-type structures



GLAZING BEADS

Effectively protect the most vulnerable parts of the sash against UV rays. Visually adjusted to the Soft Line and Classic drip profile line, glazing beads are mounted by means of system clips or sticks.

DOOR THRESHOLD

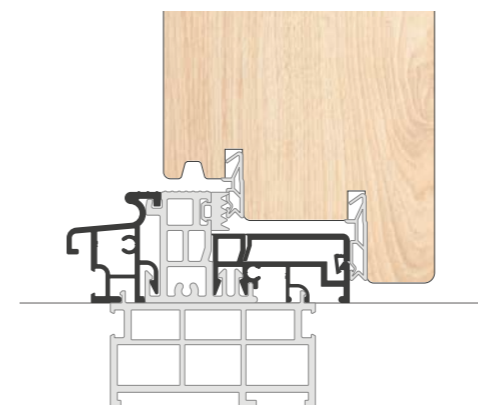
Offer include door threshold with aluminum insertion and fully aluminium, paired with gaskets for improved insulation of the door. Additionally, offer include large variety of assembly accessories.



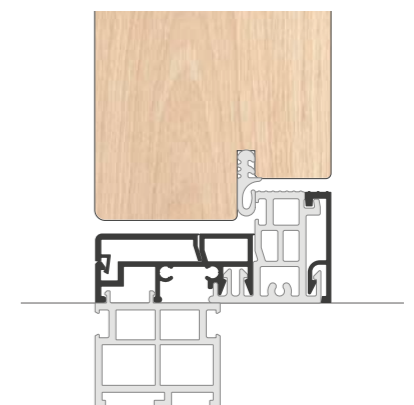
Possible mounting of assembly clip on top of the threshold.

ATD 32 - collection of thresholds for wooden doors

ATD 32 type-W Threshold - 32 mm height (10 designs)



ATD 32 type-Z Threshold - 32 mm height (5 designs)



CERTIFICATES

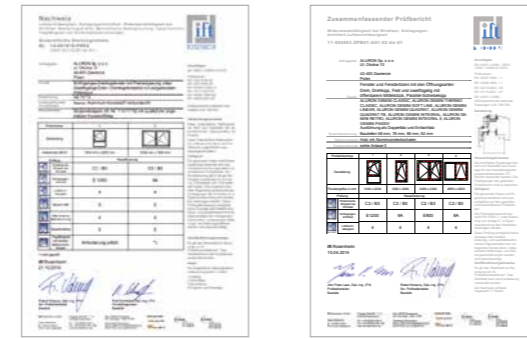
ALURON conducts its business in accordance with the global standards of management and production, such as ISO 9001 and Qualicoat certification. ALURON systems are subject to research processes based on the latest regulations and standards issued by domestic and foreign certification entities such as ITB, IFT Rosenheim, LTB, and Passivhaus Institut.



Environmental Product Declaration Type III (EPD) for ALURON facade systems and ALURON window and door system



IFT Rosenheim - ALU System AS 75



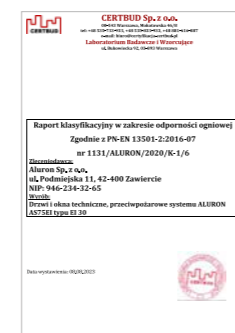
IFT ROSENHEIM - WOOD-ALU System GEMINI



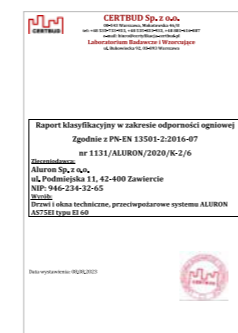
IFT ROSENHEIM - WOOD-ALU System GEMINI SI STANDARD, GEMINI SI SKY



National Technical Assessment - fire walls of the AS 75EI system



CERTBUD - Fire protection system - AS 75 EI



Certificate ISO 9001



Certificate ISO 14001



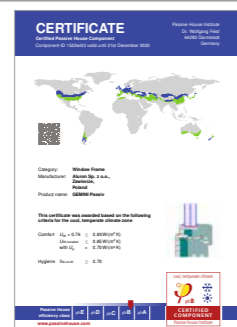
PZH Hygienic Certificate



ITB Construction Product



Certificate ISO (TÜV)



DREWNO-ALU System Gemini Passiv
ALU System AS 110 Passiv



EPH DRESDEN - WOOD-ALU System GEMINI
Fall protection safety, Category A

ALURON COLOR COLLECTION 2

AR - MAT
Powder coating RAL MAT



AR - FS
Powder coating RAL FS



AM - FS
Powder coating Metallic FS



Qualicoat Class 2

ANODIZED & EFFECT COLORS
AA - C anode colours: C0, C33, C34
AA - R imitation anode - powder coating



AD - MAT
Woodgrain decors MAT



CERTIFIED QUALITY OF POWDER COATING

Powder-coated surfaces are distinguished by their high resistance to temperature fluctuations, UV radiation or mechanical damage. We offer powder coating in QUALICOAT quality and optionally QUALICOAT SEASIDE for additional corrosion protection.

Surfaces imitating the structure of wood without the use of traditional film (veneer) use modern painting technology based on the phenomenon of sublimation: DECORAL heat transfer. Aluminium profiles are also available in anodised finish.



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