



uin2
ventana hermética



English version

What we do...

uin2 designs and manufactures a wide range of extruded aluminium louver windows. Its models are CE marked according to EN 14351-1, achieving high technical performance and an aesthetic design. Our range of different windows and its versatility, allow us to customise each product according to your requirements.



Building: Alcovega

Place: Alcobendas, Madrid

Architect: Aguirre & Newman

Building contractor: Necso

Installation firm: Hiberlux

Project description: Windows operating with electric drive system. Panels with Low E glass to minimize solar radiation transmission. The glass thickness is 16 mm.

How we do it...

uin2, in its 20 years of existence, has evolved developing and innovating in new window models and searching for new constructive solutions, including always in its models the exclusive uin2 sealing system.

Our windows are own manufactured under ISO 9000 quality standard, in order to offer the maximum technical performance and guarantees.

The relation with our clients, employees, suppliers and partners and the monitoring of architectural and sector trends, allow us to stay up dated and offer windows that fulfill the needs of our clients.

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Building: High school *El Salvador*
Place: Mutxamel, Alicante
Architect: D. Antonio Gomi Bernal
Building contractor: Construcciones Villegas
Instalation company: Construcciones Metálicas Barceló

Why should I choose a uin2 window?

Exclusive uin2 hermetic sealing system

uin2 has developed a hermetic sealing system with vertical seal flaps that guarantee a high level of sound insulation, water-tightness and air impermeability, as the trials based on the UNE-EN 14351-1:2006 standard have proven.



Thermal Insulation

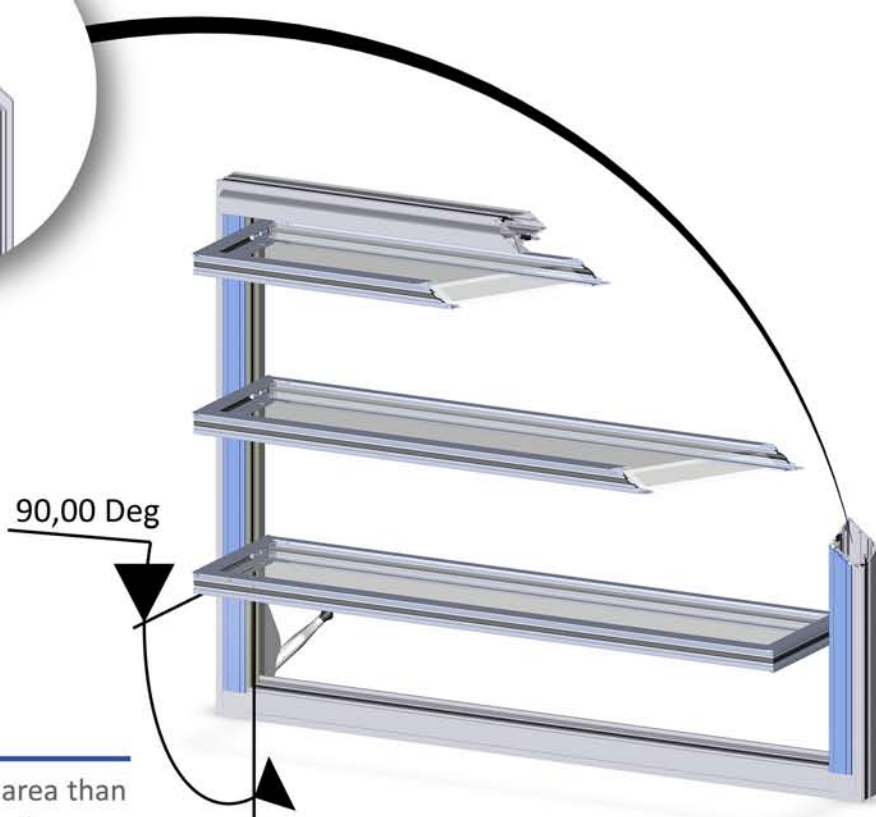
Aluminum sections with thermal break allow achieving great thermal insulation in indoor spaces. Incoming heat is thus reduced in summer, as well as outgoing generated heat in winter. The building is therefore more energy-efficient and this leads to energy saving.

High ventilation level without invading indoor space

uin2 windows offer a greater ventilation area than other windows in the market of the same size.

In addition, uin2 windows allow you to set pivot points of the panels anywhere along their sides so that no indoor space is invaded.

The opening process of uin2 windows start with the lateral displacement of vertical seal flaps followed by the rotation of the louvers. uin2 windows offer a ventilation of up to 60 cm² per metre of height by keeping the only vertical flaps displaced. uin2 windows can therefore offer a certain degree of ventilation while, at the same time, providing insulation in rainy or windy conditions outdoors.



Light and solar radiation control

uin2 panels can be customised with glass or other materials depending on the needs of each building. Furthermore, incoming radiation can be regulated thanks to their tilt, leading to reduced heating or cooling costs.

Climate Line

This line has been developed with the idea of offering high benefits in thermal and sound insulation, as well as weather tightness; resulting in a product spectrum that leads to the energy-saving of buildings.

The window's models that belong to the Climate Line are uin2.1, uin2.RT, and the new model uin2.RT-1.

Solar Line

A windows Line that stands out for its reduced framings, its wide glass-surface, great luminosity and minimalist design.

This line includes the uin2.Glas-eco and the uin2.Glas-stil models.

Building: nursery school

Place: Gualba, Barcelona

Architect: Gonzalo Acosta Ramos

Building contractor: Estudis i Projectes La Vall, S.L.

Product description: Remote manual operation windows .
Silver anodised finish.

Product range -Climate Line

uin2.1

Window with the most reduced aluminium profiles and frames louvers, resulting in a wide glass area.

Besides, this window offers high performance in air tightness and sound insulation thanks to its exclusive uin2 vertical seal flaps.



uin2.1 model

uin2.RT

Window that includes thermal break profiles and the exclusive vertical seal flaps.

It offers a high performance in thermal insulation and weather tightness.



uin2.RT-1 model

uin2.RT-1

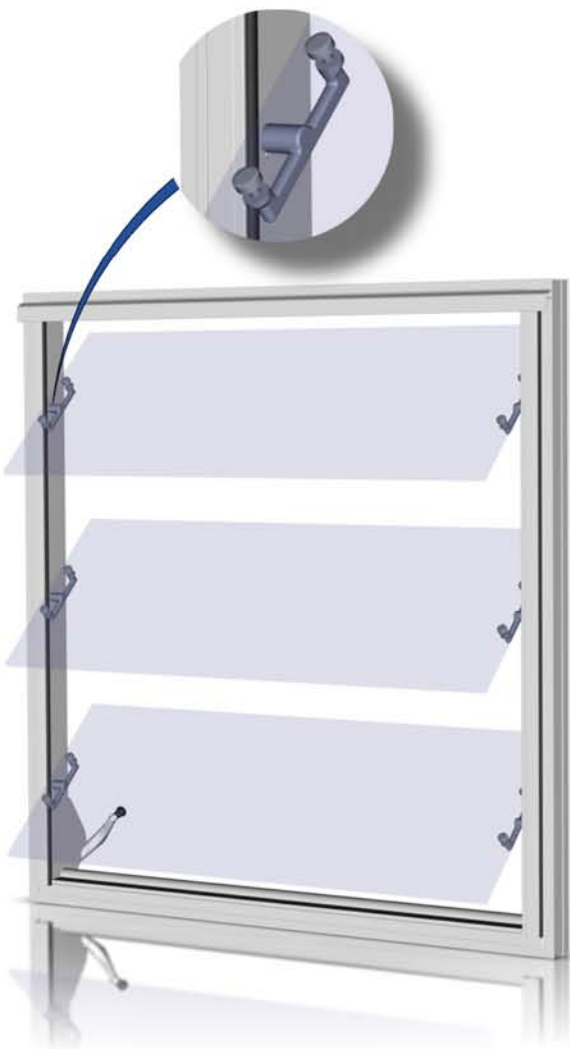
This new product has both thermal insulation and aesthetic design of slim aluminium sections.

It reaches optimal ventilation and has a large glass area.

uin2.Glas-eco

Window with an all- glass appearance mounted in side-sleeves and with ideal air ventilation attributes and luminosity.

Both stepped and overlapping louvers are available.



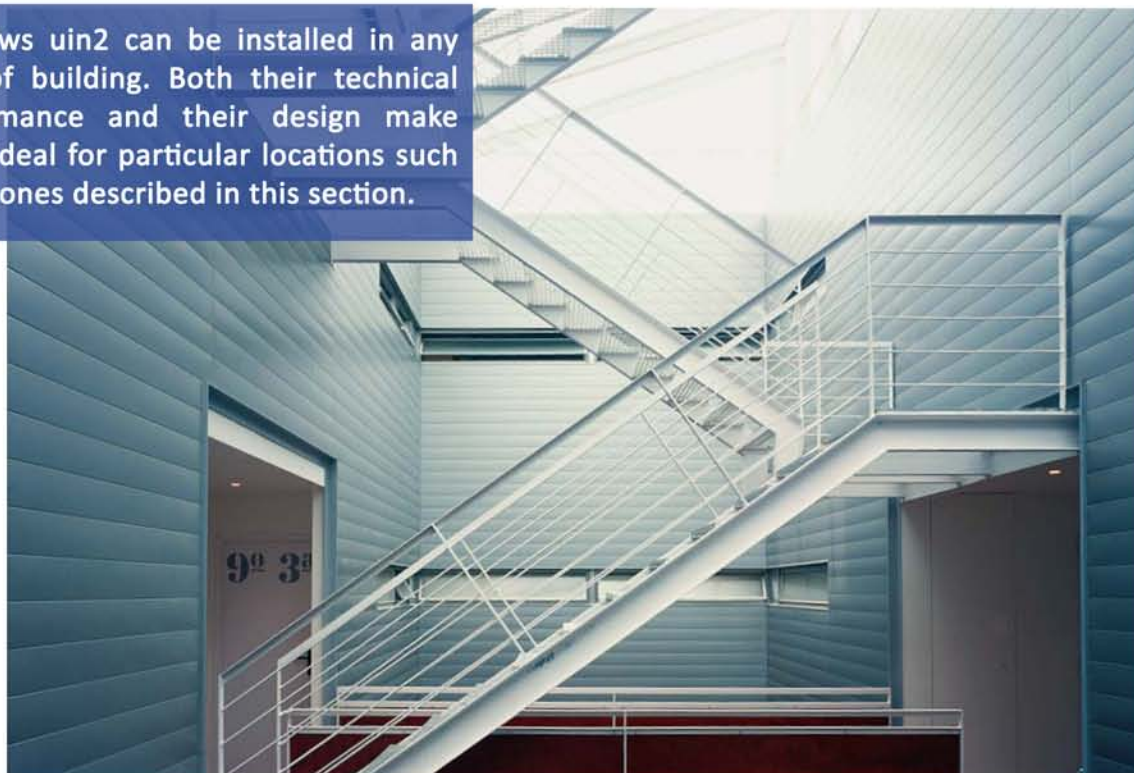
uin2.Glas-stil

Window mounted in stainless steel brackets, giving a smooth, flush surface appearance. This model includes vertical seal flaps, in order to offer a good performance in weather tightness and sound insulation.

Both stepped and overlapping louvers are available.

Applications

Windows uin2 can be installed in any type of building. Both their technical performance and their design make them ideal for particular locations such as the ones described in this section.



Stairwells

uin2 windows comply with the requirements of the CTE (Spanish regulatory body for construction) on safety in case of fire and against risk of falls.

Space Constraints

uin2 windows offer a design in which panels open entirely towards the outside in order not to invade any usable floor space. This allows you to make the most of the space.

Building restoration
Place: Barcelona
Architectural firm: B720 Arquitectos
Building contractor: Gran Vilamarí, S.A.

Applications

Hard to reach areas

Automatic or manual remote actuation devices can be installed allowing for an easy control of windows which are found high up or are difficult to reach.

uin2 windows are an ideal solution for ventilation in areas such as light shafts, skylights, indoor gardens, indoor swimming pools, verandas, sports centres and many more.



Building: Nursery school

Place: Sant Celoni, Barcelona

Head architect: Jaume Coris Veray

Other project team architects: Peritxol 6 Arquitectos (Pere Ramos y Eduard Prats)

Building contractor: Imaga Proyectos y Construcciones S.A.

Separator for Indoor Spaces

Solar Line products have minimalist frames and provide plenty of light. When installed as a separator between two indoor areas, they make the room feel more spacious.

There is a range of different glasses available which allow you to define the design you wish in each space and create different ambiances.

Applications

Curtain walls

uin2 rotating louvers combined with fixed elements of the façade provide spaces with a high degree of natural ventilation and render them a glazed and uniform appearance.

The wide range of materials and glasses that can fill the panels allow the façade to meet solar control, insulation and design requirements.

Double-Skin façade

The high luminosity design of Solar Line models gives building envelopes a state-of-the-art look.

uin2 models included in double-skin façades offer the performance required by this type of building solution both from a technical and a design perspective.



Office Building

Place: Valencia

Architect: Serrano-Díaz Arquitectos S.A.

Building contractor: Aldeasa

Installation firm: Albaniquel, SAL

Product description: electric operating window. Panels filled with "Trespa", and installed as a double-skin façade.

Customisation

Dimensions

The uin2 windows can be attached using vertical and horizontal frames which allow you to cover any opening.

The client, with the assistance of our technical and design service, can customise the dimensions of both window and louvers. In the following chart it is shown the number of louvers that the windows may have according to its dimensions.

Number of louvers
1
2
3
4
5
6

Window height (mm)
353 - 619
620 - 885
886 - 1.152
1.153 - 1.418
1.419 - 1.692
1.693 - 2.011

The information in this chart is standard to all the models and can vary slightly according to them. Furthermore, should you need a special design, our design and technical department advises you on how to carry it out.



Building: High school

Place: Vilanova del Vallès, Barcelona

Architect: Joan Fabregat Pla

Building contractor: Contratas y Obras

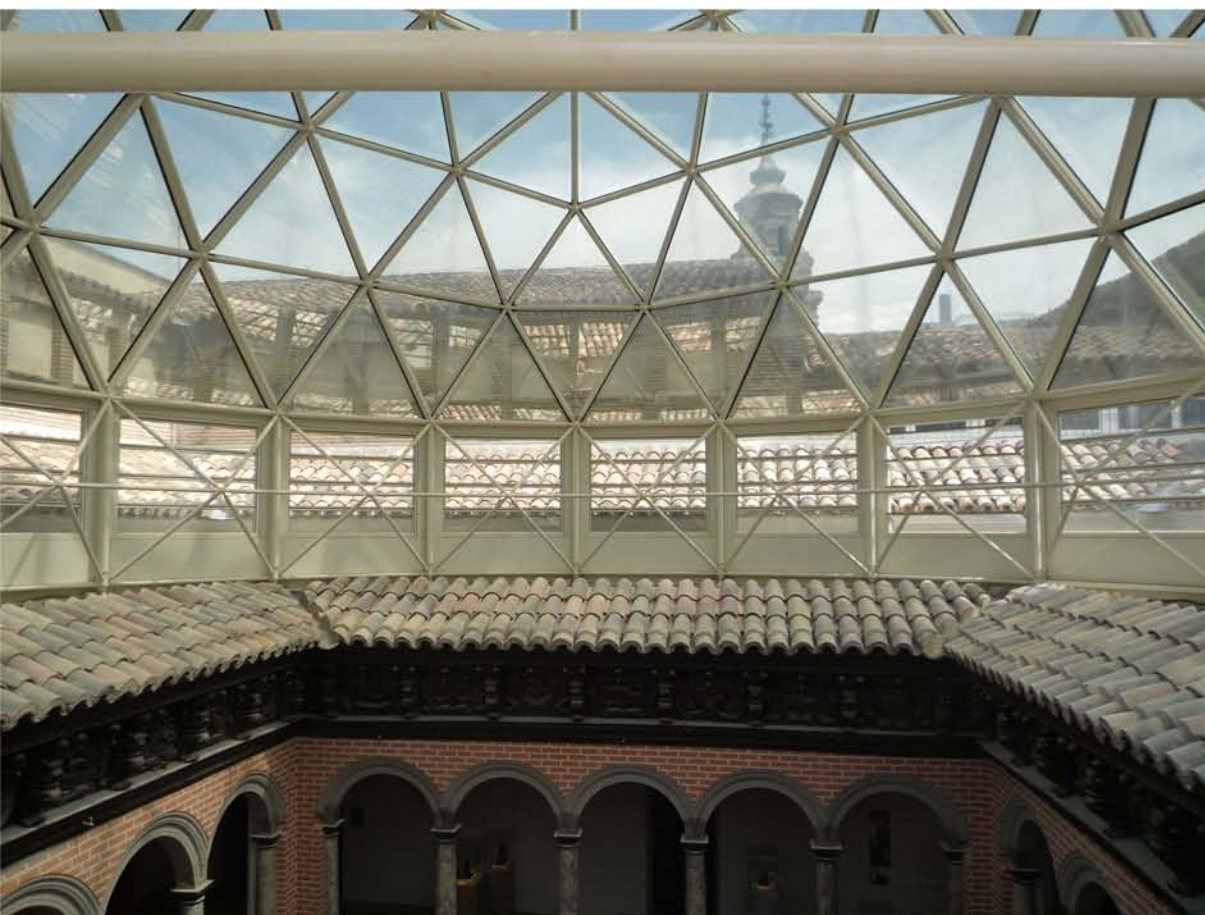
Project description: windows installed with profile adaptor among each other to cover all the opening façade. Manual operation window with hand-crank drive system.

Customisation

Glazing or alternative types of filling

The wide variety of glass types, that can be installed in the uin2 windows, allows to fulfil the needs on every façade, in terms of: solar and light control, acoustic and thermal insulation, safety, appearance, light, among others.

The compatible glass types for each window's model, are specified in the section: Technical information summary.



Paint finishes

The finish can be anodized or powder coated to a RAL colour

Building: Pablo Gargallo museum

Place: Zaragoza

Building contractor: Estructuras Aragon, S.A.

Architect: D. Angel Peropadre Muniesa

Project description: Skylight designed by Hiberlux Firm. It is complemented with electric operating uin2 windows. They are installed in all the perimeter of the skylight for optimum ventilation.

Customisation

Manual operation

The manual mechanism designed by uin2, can be installed in any of the chosen sides (either left or right) and at the desired height of the window.



Remote manual operation

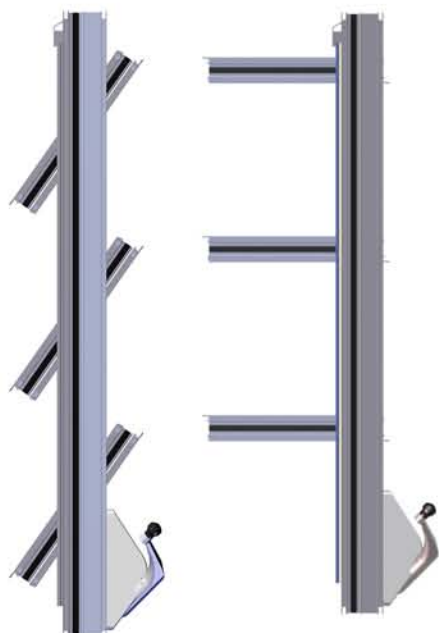
The windows installed in high height can be controlled through a hand-crank drive system.

In the case of protruding surfaces the system includes a deflection device.

Electric operation

The opening and closure operation can be made through an electric actuator, activated through a switch, a remote control, or through a home automation system that controls it.

The motor can be installed in the frame either hidden or seen.



Other possibilities

Fixed and mobile panels can be combined.

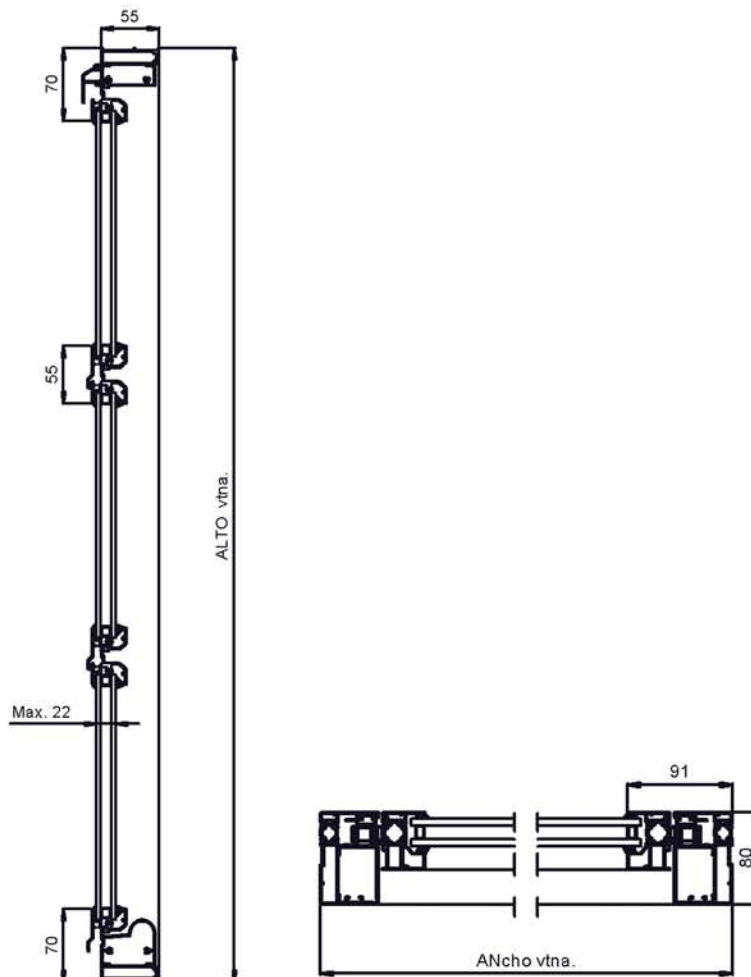
The pivot points of the panels can be located anywhere along their sides. This design prevents the louvers from invading any indoor space when they are completely open.

Complements such as a fall arrest tube or an insect proof net can be added.

Technical information summary - uin2.1

Technical information	Results
% ventilation area (1)	78%
Glass thickness	Double glass with a maximum thickness of 22mm

Test according to standard UNE-EN 14351-1	Performance
Air permeability (UNE-EN-12207)	Class 3
Watertightness (UNE-EN-12208)	Class 7A
U Value (ISO-EN 10077-2) (2)	4,1 (W/m ² K)
U Value (ISO-EN 10077-2) - profiles only (2)	5,7 (W/m ² K)
Resistance to wind load (UNE-EN-12210)	Class 5 C
Sound insulation (2)	27 (-1;-2)dB
Capability to withstand loads in the security mechanisms <small>(UNE-EN 14351-1)</small>	Limit Value: 350 N (APT)
Hazardous materials	NPD



Notes

- (1) Dimensions of the window: 1.200 mm height and 1.800 mm width
- (2) The thickness and type of glass used for these tests is a double glass of 20 mm



Technical information summary - uin2.RT

Technical information

% ventilation area (1)
Glass thickness

Results

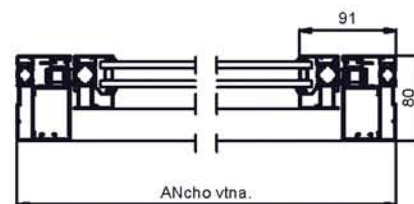
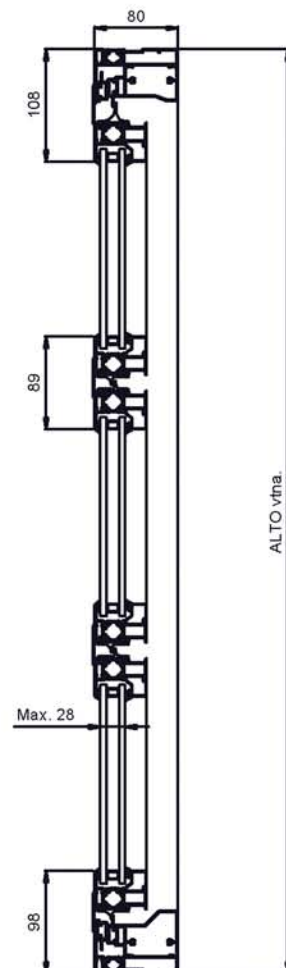
72%
Double glass with a maximum thickness of 28mm

Test according to standard UNE-EN 14351-1

Air permeability (UNE-EN-12207)
Watertightness (UNE-EN-12208)
U Value (ISO-EN 10077-2) (2)
U Value (ISO-EN 10077-2) - profiles only (2)
Resistance to wind load (UNE-EN-12210)
Sound insulation (2)
Capability to withstand loads in the security mechanisms <small>(UNE-EN 14351-1)</small>
Hazardous materials

Performance

Class 3
Class 7A
3,1 (W/m ² K)
3,5 (W/m ² K)
Class 4C
27 (-1;-2)dB
Limit Value: 350 N (APT)
NPD



Notes

- (1) Dimensions of the window: 1.200 mm height and 1.800 mm width
- (2) The thickness and type of glass used for these tests is a double glass of 22 mm



Technical information summary - uin2.RT-1

Technical information

% ventilation area (1)

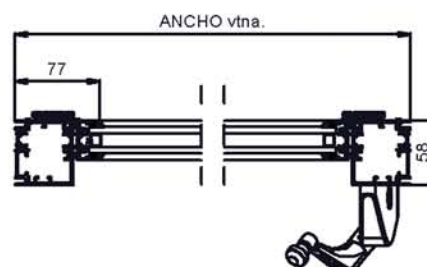
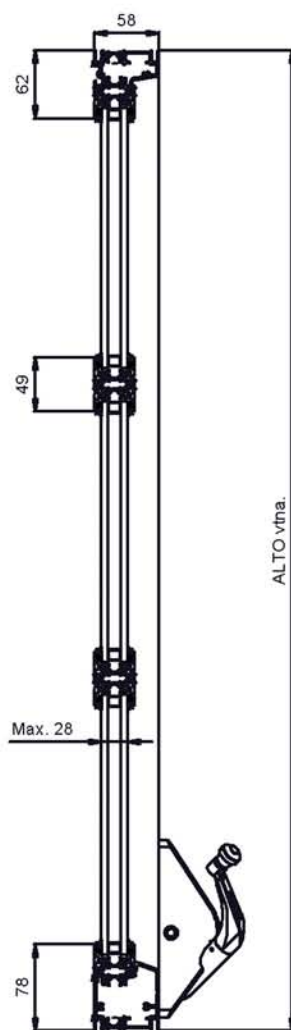
Glass thickness

Results

74%

Double glass with a maximum thickness of 28mm

The CE marked tests are in process.



Notes

(1) Dimensions of the window: 1.200 mm height and 1.800 mm width

Technical information summary - Solar Line (uin2.Glas-eco and uin2.Glas-stil)

Technical information

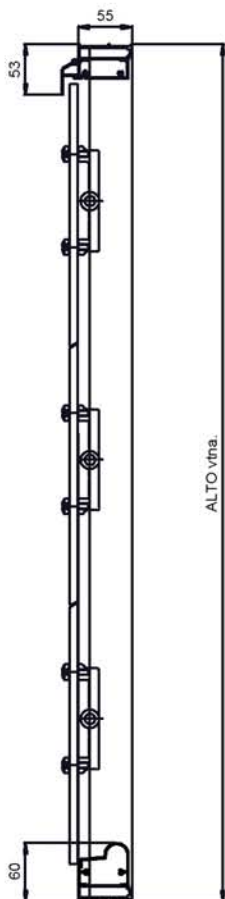
% ventilation area (1)	86%
Type and glass thickness (uin2.Glas-eco model)	Glass of 8 mm
Type and glass thickness (uin2.Glas-stil model)	Toughened glass of 8 mm

Results

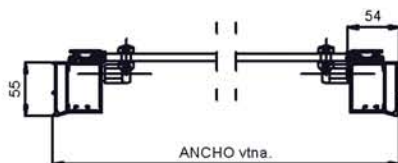
Test according to standard UNE-EN 14351-1

Air permeability (UNE-EN-12207)	NPD
Watertightness (UNE-EN-12208)	NPD
U Value (ISO-EN 10077-2)	NPD
U Value (ISO-EN 10077-2) - profiles only	NPD
Resistance to wind load (UNE-EN-12210)	Class 3 C
Sound insulation	NPD
Capability to withstand loads in the security mechanisms <small>(UNE-EN 14351-1)</small>	Limit Value: 350 N (APT)
Hazardous materials	NPD

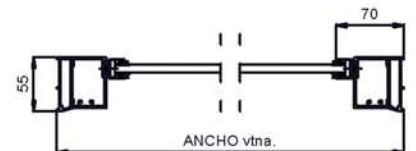
Performance



uin2.Glas-stil

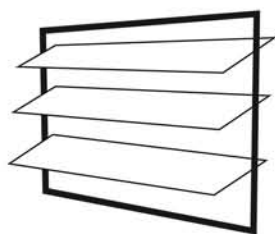


uin2.Glas-eco



Notes

(1) Dimensions of the window: 1.200 mm height and 1.800 mm width



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