

Technical  
and commercial  
**dossier**

**Standard**  
Series

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Frameless  
**slide&turn**  
system

**acristalia**







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# Discover the Standard series

## Introduction to the basics

The Frameless Slide&Turn Standard series represents an evolution of the concept of the glazed enclosure in the quest for versatility. In the following pages we will review the main features that make the Standard Series a benchmark in the glazing world. This document is intended to show the advantages and technical features of the product.

This dossier presents the results of the trials carried out on the glass system, a guide detailing the installation possibilities, as well as the technical features concerning the glass sizes and types of aluminium profiles used. A comprehensive overview of information that accompanies the careful design and functionality of this article.



The system has a wide range of possibilities in terms of finishes and colour combinations of the profiles, adapting to any preference or corporate image.



Perfect solution for integration in both facades and interiors, being suitable for both refurbishment and new construction projects.



Such adaptability and implementation is enhanced with the possibility of printing the glass sheets in the factory, thanks to our digital vitrified printing system.



Sliding glass panels without vertical profiles provide seamless and transparent surfaces with all the functional components concealed.



## Performance of the system

### a. Structural reliability

The top and bottom panel profiles ensure a consistent stability. The glazing has mechanical fixation in the upper panel profile to prevent the glass from detaching from the profile.

### b. Minimal visual impact

Functional components are discreetly hidden inside the profile. The system has no vertical profiles between the panels, guaranteeing a uniform glass surface throughout the opening without visual impediments.

### c. Easy adjustment

Transparent vertical sealing strips that are easy to fit after installation of the system and can be just as easily removed to accommodate the room temperature or for optimal cleaning.

### d. Insulation

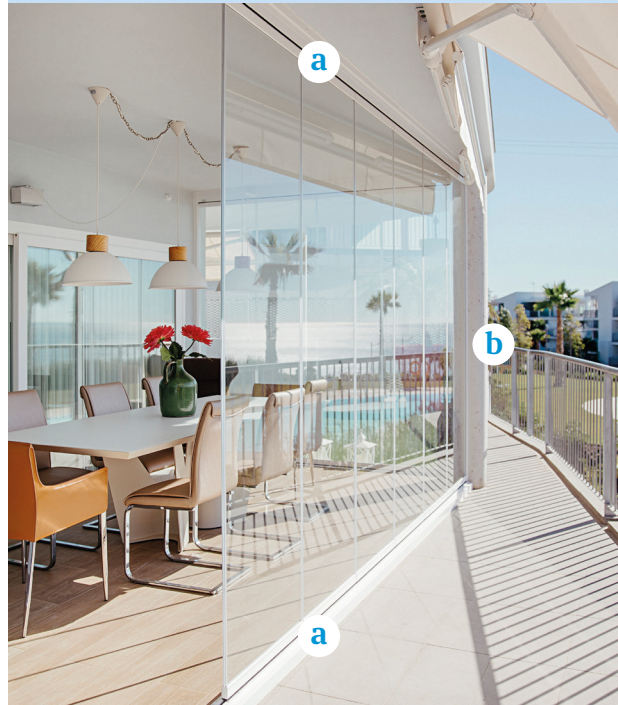
Double sealing laminated mat both at the top and bottom guide where they meet with the respective panel profiles to minimise air and water flow. The tongue and groove caps seal the joints between the panel profiles.

### e. Bespoke design

Extremely versatile system where any panel can be converted into an opening, creating a new parking area to collect the sliding leaves.

### f. Smooth sliding

The Standard series panels carry their weight on the top guide, guaranteeing an easy and smooth sliding of its panels along the upper guide.



## Following the rules

### Tests and Certifications

In this section, reference is made to the quality certificates for the Standard Series frameless glazing systems, as well as a description of the tests carried out.

On the one hand, we have included the different quality controls of the materials used to manufacture this enclosure system.

On the other hand, we mention the classification of our glass and the standards to which Acristalia complies with.

In addition, Acristalia has the adhesive certificate for our frameless glazing systems.

#### Acristalia, a quality brand

Acristalia manufactures all its products under strict quality controls regularised and specified in the quality management system in accordance with the UNEEN ISO 9001:2015 standard and guarantees that all the materials used in the manufacture of its products are of the highest quality, complying with the following regulations: Aluminium CE-marked in accordance with the new European regulation of building products (EU) 305/2011 and the harmonised standard UNE-EN 15088:2006: aluminium and aluminium alloy products for structural applications.

In addition, it complies with quality standards for the surface treatment of the profiles (Qualicoat, Qualanod, Qualideco): Guaranteed finishes, lacquering and anodising as as stipulated by the European quality mark European

Qualicoat, Qualanod, Qualideco, approved by

the Ministry of Public Works for surface treatment of dust. surface treatments. Such treatments ensure a uniform ageing of the colours with the absence of patches and occasional discolouration.

#### Tempered glass classification

All our glass is CE marked in accordance with the UNE-EN 12150-1:2016 standard, obtaining the maximum resistance classification IC1 according to the UNEEN standard 12600:2003.

#### Air tightness and wind load resistance ACCORDING TO UNE-EN 1932:2014 AND UNE-EN 1026:2017

Frameless slide&turn system with two panels, one of them sliding, with overall dimensions 3000 x 1268 (height x width), with glass thickness of 12 mm.

#### Test results:

- Wind load resistance Class C3  
Class C = Relative deflections smaller than 1/300  
Class 3 = Shock-protection 1800 Pa
- Air tightness  
Class 1





## Certifications

Our products are subjected to strict controls, tests, and trials. We work to ensure that Acristalia's products are synonymous with safety and reliability.

For further information on these trials, please visit the 'Documentation' section at [acristalia.com](http://acristalia.com).

**We do inform you... knowing is winning!**



### Acoustic insulation against airborne noise according to UNE - EN ISO 140-3:1995.

Measurement of the sound reduction index to airborne noise of an Acristalia frameless slide & turn system with 10 mm glass thickness.

Test result:

- Overall sound reduction index,  $R_w(c;ctr)=21(-1,-2)$ dB.

### Acristalia adhesive certification according to ETAG 002.

The results obtained have been excellent both at room temperature and in extreme conditions of -20 °C and +80 °C, reaching almost 5 times the value required by Acristalia glazing systems type.

#### Test results:

- Standard specimens (23 °C / 50%RH).  
Average value: 1.62 kN.
- Conditioned specimens (24h at -20°)  
Mean value: 1.22 kN.
- Conditioned specimens (24h at +80°)  
Average value: 1.22 kN.

For more information about these trials, please go to the 'Documentation' section at our [www.acristalia.com](http://www.acristalia.com) website.

## Configuration options

The Standard series versatility is proven by the wide range of installation possibilities. They are extremely adaptable to any type of frame.

For example, this series is able to adapt to almost any type of layout, like L-shaped or any other polygonal shape.



- The opening direction of the panels is adjustable. Either interior or exterior opening is allowed, depending on the requirements of the project.
- The Standard Series features the option of a recessed bottom guide to facilitate accessibility to the space and eliminating any architectural barrier.
- Regardless of the type of structure and project, every sliding panel moves horizontally smoothly and lightly.
- The Standard Series features an integrated magnetic system to keep panels together and a discreet and easy-to-use snap-lock with a ratchet clip to secure door.



### Standard series

Recessed bottom profile

Tested in winds of up to 193 Km/h



The projected layout of the system could be arranged in sections with different configurations.

In the following examples we can see different settings in the same installation, such as the "polygonal" which shows the adaptability of the Standard series.

Despite the difficulties we face, we achieve equally functional sections within the same system, providing visual consistency to the space as a whole.

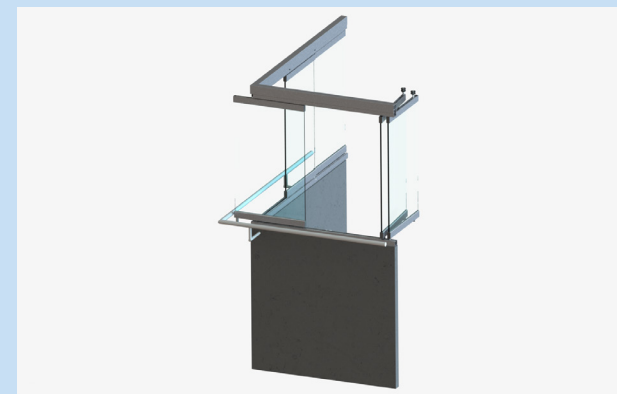
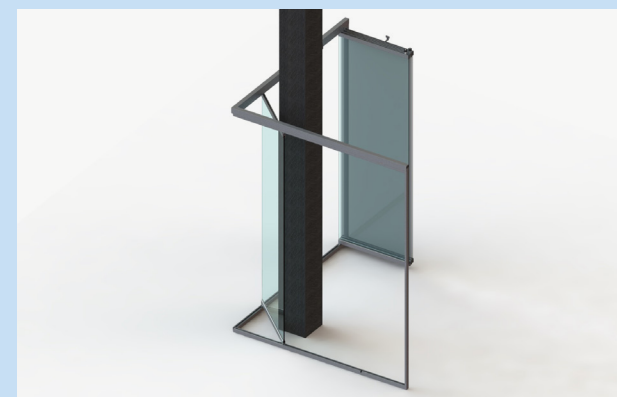


Click for the video!



As shown in the pictures below, it must be taken into account that in installations with panels sliding along an angle a minimum space that is invaded must be respected.

For installations with angles, please consult with our sales department to develop the ideal solution.



## Panels

### Easy and tidy

The Standard Series can reach a panel height of up to 3 metres and a width of 80 cm, making it very versatile in terms of the adaptability possibilities to be installed as required by the project.

With regard to the types of glass employed, this series allows for the installation of tempered or laminated glass. With the option of translucent, opaque and solar control glass. Thicknesses of 6, 8, 10 and 12 mm.



where you want to be



#### Measures

Up to 3000mm height

**800 mm maximum panel width**

Glass thicknesses of 6, 8, 10 and 12 mm



#### Maximum weights

Maximum panel weight 55 Kg

Maximum opening panel weight 70 Kg.





With this calculation you find out how much space the storage area will occupy.



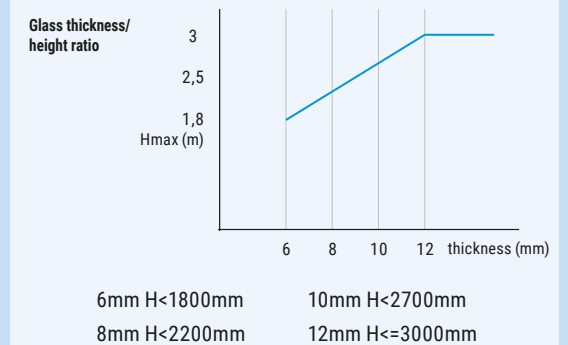
STACKING AREA

$$D = 34 * N + 30,5$$

(where N = Amount of panels)



The following chart shows that the ratio of glass thickness to the maximum height of the system is directly proportional. In other words, the higher the system, the thicker the glass required.



## Technical features

### Integrated solutions

These are the main technical features of the system design to suit the needs of our customers. Below, we show the most outstanding accessories that integrate the system.



#### Upper wheel outlet

Thanks to Acristalia engineers, once closed, the outlet system is fully integrated into the system avoiding being an obstacle for blinds, shutters, and textile curtains.



Outlet in opening and closing mode.

#### Tongue and groove panel profile cap

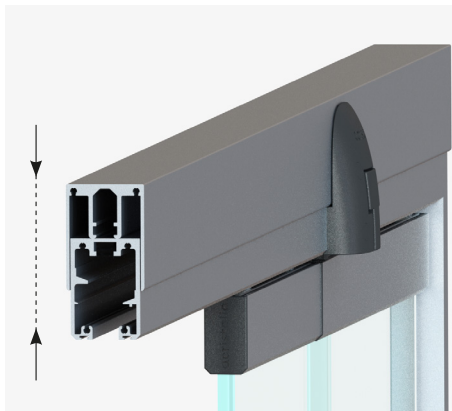
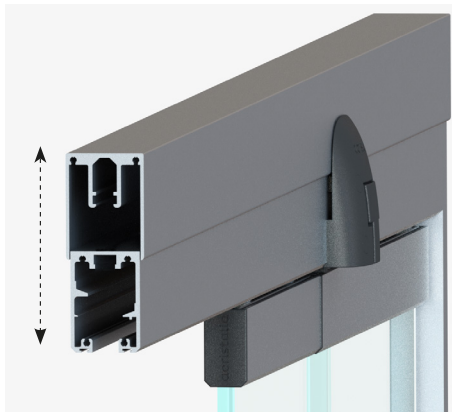
By means of the design of the tongue-and-groove caps, we achieved a sturdiness that improves the resistance to both water and air.





## Levelling profile

The levelling profile (optional but recommended) allows to adjust the height of the area up to 25 mm.



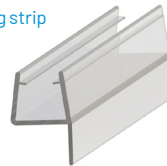
## Sealing strips

The high quality of the materials along with a production process that uses the most advanced technologies results in a very reliable product with unbeatable characteristics.

### Flexible PVC sealing strips

Excellent resistance to ultraviolet rays, weathering and saline environments UNE- EN ISO 527; UNE EN ISO 1183; UNE EN ISO 868.

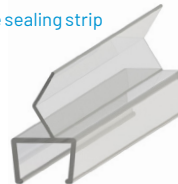
F-shape sealing strip



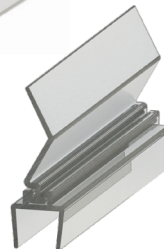
H-shape sealing strip, available in 8 and 10 mm



Flexible sealing strip



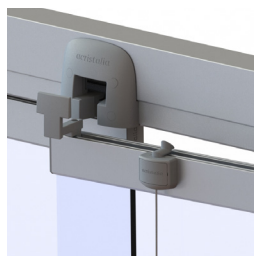
Extra-large flexible sealing strip, only in 8 and 10 mm



## Locking mechanisms

The type of locking system will be determined by the required level of security and direction of the opening panels. Our technical and sales departments will advise you about the most suitable option for your project.

### Lock with cable



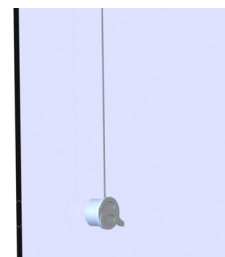
Stainless steel connection between the upper and lower latches when pulled.

### Security lock with handle



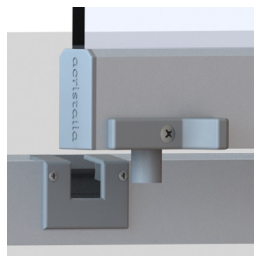
You will be able to lock the opening panel, leaving your enclosure fully protected like any other security door. It allows the opening of the enclosure from both sides.

### Turn knob



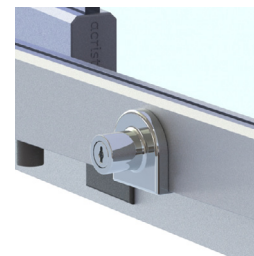
Allows to operate the steel cable operating the latches while at the same time helps us to direct the panel to its parking place. It is possible to use the knob from the inside, the outside or both at the same time.

### Sliding lock



Provides resistance to strong winds and adverse weather conditions. It has been tested with results that ensure its resistance to winds of more than 190 km/h.

### Lower latch lock

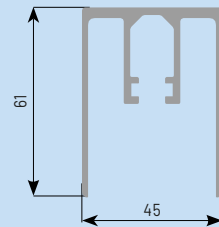


It enables you to lock opening of the system by using a key and a lock. Also valid for cases of protection against external threats or as security to prevent children from operating the system.

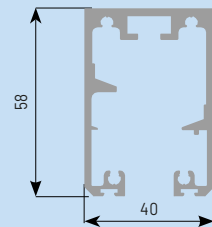
# Dimensioned profiles

## Overview of dimensions

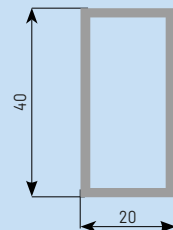
**Levelling  
profile**



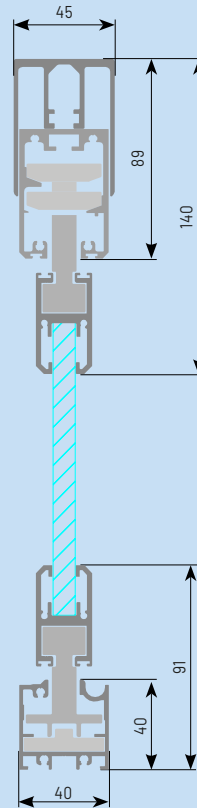
**Top guide  
profile**



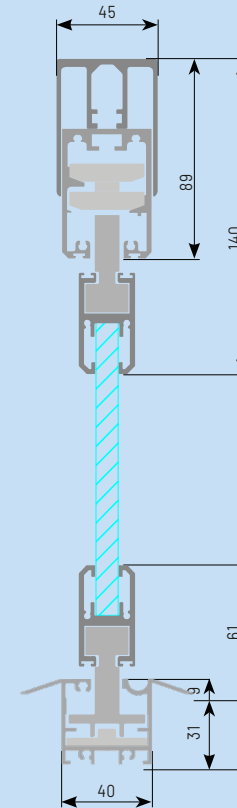
**Side  
frame**



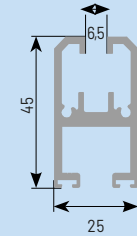
**Section view  
surfaced bottom guide**



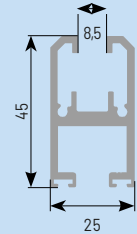
**Section view  
recessed bottom guide**



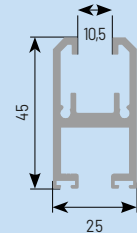
**Panel profile  
6 mm Standard**



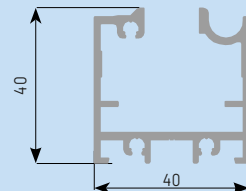
**Panel profile  
8 mm Standard**



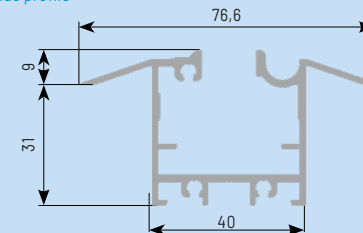
**Panel profile  
10 mm Standard**



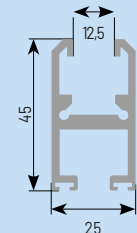
**Surfaced  
bottom guide profile**



**Recessed  
bottom guide profile**



**Panel profile  
12 mm Standard**













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it's your  
turn...

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