TECHNICAL FOLDER

GLASS CURTAIN
STANDARD SERIES

GIBCA LIMITED COMPANY (FZC) LLC

acristalia

Ver. 01.2022

GLASS CURTAIN
STANDARD SERIES

1 INTRODUCTION. STANDARD SERIES

The Standard Series Glass Curtains represent an evolution of the concept of glass enclosure in search of versatility. In the following pages of this technical folder, we will detail the characteristics that turned the Standard Series into a reference in the glass enclosures sector. This document is a technical tool made to facilitate the installation of the product.

This technical folder is composed of a guide of installation possibilities with an overview of the design and the functionality of the product and the technical features such as the glass dimensions, the types of aluminium profiles and the requirements met by Acristalia for the fabrication of this product as well as the tests realized for this product and the results obtained.

2 TESTS

This part relates to the certificates of quality obtained by Acristalia for the fabrication of this product with the different materials used and the tests realized. Also, the document details the glass classification and the standards met by Acristalia. In addition, Acristalia has a certificate of adhesive for the glass curtains.

Finally, the Standard Series glass curtains have been tested to obtain certificates of quality that prove the wind load resistance, air tightness and acoustic insulation. For further information, visit our website acristalia.com.

ACRISTALIA. QUALITY BRAND

Acristalia manufactures all its products under strict quality controls that are regularized and specified under the quality management system according to the standard **UNE-EN ISO 9001:2008** and guarantees that all the materials used in the manufacture of its products are of first quality complying with the following regulations: Aluminium with **CE marking** according to the new European Construction Products Regulation (EU) 305/2011 and the harmonized standard UNE-EN 15088:2006: Aluminium products and aluminium alloys for structural applications. In addition, it complies with quality standards for surface treatment of profiles (**Qualicoat, Qualand and Qualideco**).

ACOUSTIC INSULATION TO AIR NOISE
ACCORDING TO UNE-EN ISO 140-3:1995

Measurement of the sound reduction Index to the aerial noise of Acristalia glass curtain of 10 mm glass.

Test result: Global index of acoustic reduction, Rw (c;ctr)=21 (-1,-2)dB.

Nº Exp. 101101711 - 1562

TEST OF AIR PERMEABILITY AND RESISTANCE TO WIND LOAD
ACCORDING TO UNE-EN 12211:2000
AND UNE-EN 1026:2000.

Glass curtain enclosure of two swing panels, one of them also sliding of total dimensions 3000 x 1268 (height x width), with glass thickness of 12 mm.

Test result:

Resistance to wind load
Class C3
Class C = lower arrow l/300
Class 3 = hit security 1800 Pa

Air Permeability
Class 1

Nº Exp. 1418107 - 237

CLASSIFICATION OF TEMPERED GLASS

All our glass has CE marking according to the standard UNE-EN 12150-1:2016 obtaining the maximum qualification 1C1 according to Norm UNE-EN 12600:2003.

Nº Exp. 1214463 - 1445

ACRISTALIA ADHESIVE CERTIFICATE
ACCORDING TO ETAG 002

The results obtained have been excellent both at ambient temperature and in extreme conditions of-20 º C and + 80 º C, reaching up to almost five times its power of adhesion to the maximum value required for Acristalia glass curtains.

Test Result:
Glass-adhesive-U-profile

Pattern trays (23 º C/50% RH)
Average value: 1.62 kn
Conditioned trays (24h at -20 º)
Average value: 1.22 kn
Conditioned trays (24h at + 80 º)
Average value: 1.22 kn

Nº Exp. 12 - 4178 -v 3260

3 INSTALLATION POSSIBILITIES

The versatility of the Standard Series glass curtains is shown in its installation possibilities. They present a high degree of adaptability to any type of structure. Therefore, this series can be incorporated into any type of enclosure project, either the L-shaped structure, circular or other polygonal figures.

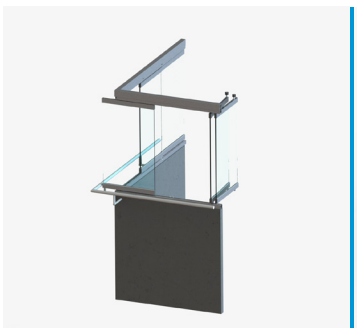
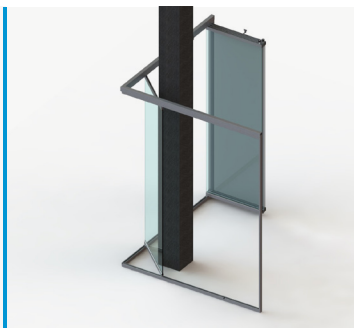
Regardless of the type of structure and project, all the panels of this series of glass curtains must be horizontally moved in a soft and light way. As shown in the two last images, in case of corners, there must be sufficient space so that the panels can slide properly through the angle. The orientation of the opening of the panels is eligible. Interior and/or exterior opening is allowed.

The Standard Series includes the optional guide embedded in its lower profile to facilitate the accessibility and to eliminate architectural barriers.





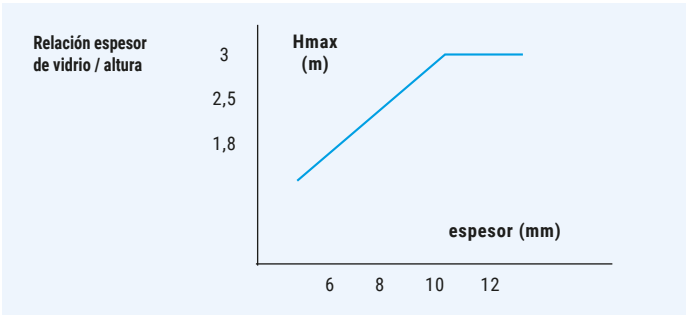


For an ideal solution for angle step installations **consult your sales representative.**

4 TECHNICAL FEATURES

This part details the different technical characteristics of this product. Regarding the different possibilities of product measures, the Standard Series Glass curtains can reach 3 metres high and 80 centimetres wide. As for the glass used, it can be included tempered or laminated glass, solar control or any other composition that will equal 6, 8, 10 or 12 mm thickness. As shown on the chart on the right, the glass thickness/height ratio of the panels is directly proportional. It means that the greater is the height, the thicker will be the glass.

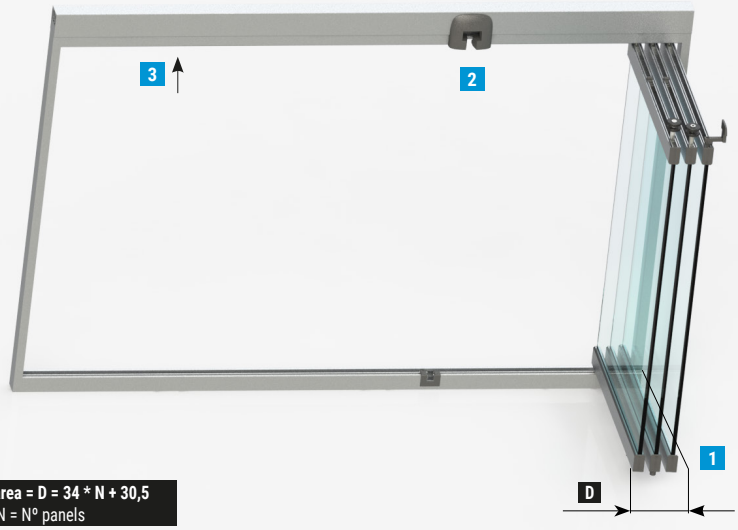


The first drawing below establishes the formula to find out the space that will fill the stacking area. The maximal measures are also detailed as well as other technical special features of this enclosure system.

In the image nº2 we can see the wheel outlet support, which is totally integrated into the system and eliminates obstacles. In addition, it has tongue and groove ending caps that improves the sealing of the enclosure.

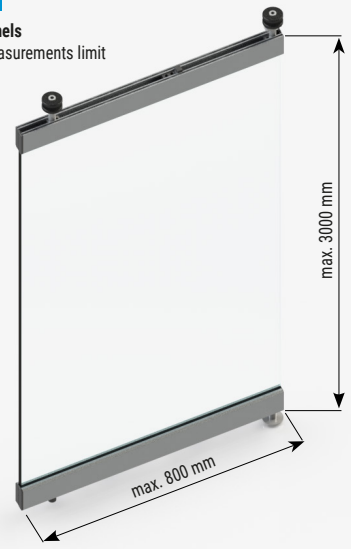
Finally, and if it is necessary, the Standard Series includes the possibility to add a compensation profile allowing up to 25 mm adjustment.

Panels
stacking area



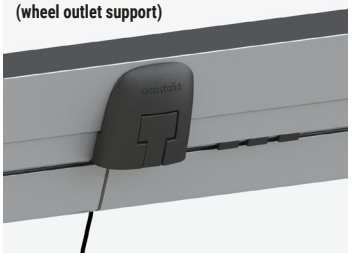
Stacking area = D = 34 * N + 30,5
N = Nº panels

1
Panels
measurements limit



Maximum panel weight: 55 kg.
Maximum opening panel weight: 70 kg.

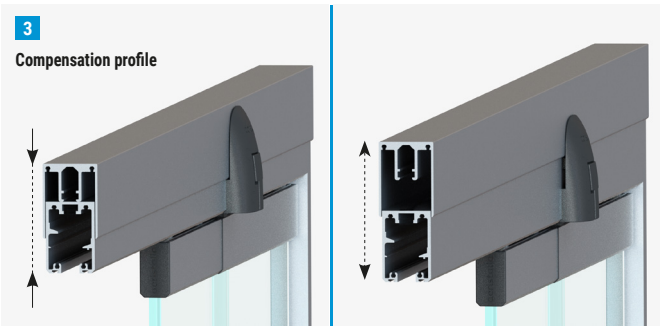
2
Own accessories
(wheel outlet support)



Integrated into the system and eliminates obstacles

Improved sealing of the enclosure

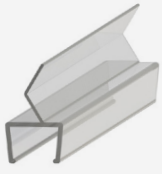
3
Compensation profile



Adjustment up to 25 mm

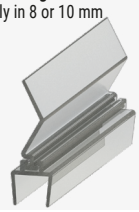
L-seal

Z-seal

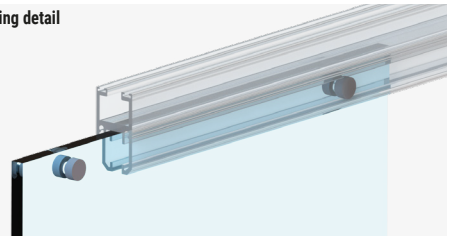


H seal
Only in 8 or 10 mm

Extra long seal
Only in 8 or 10 mm



Glass fastening detail

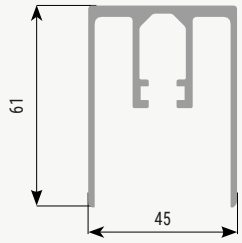


5 PROFILES SECTION

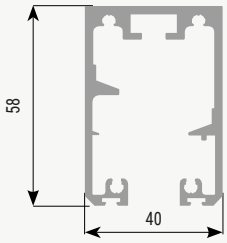
Version: March 2018
Denomination: Sections Glass Curtain - Standard Series

Measures in millimeters

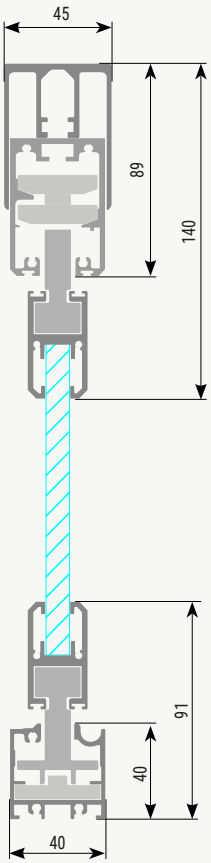
Compensation
profile



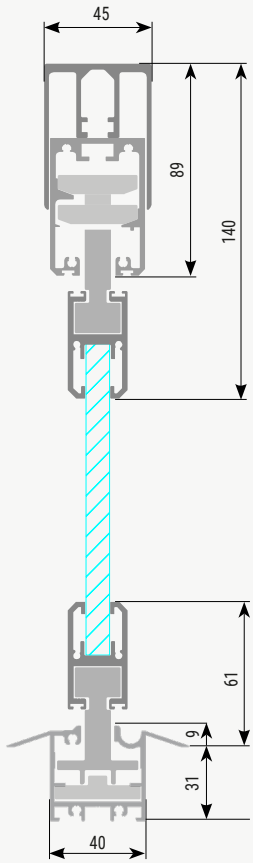
Top runner
guide profile



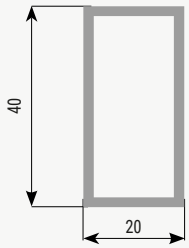
Vertical cross section
surface guide



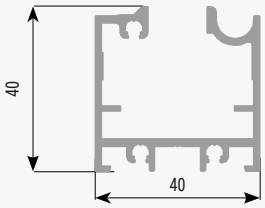
Vertical cross section
embedded guide



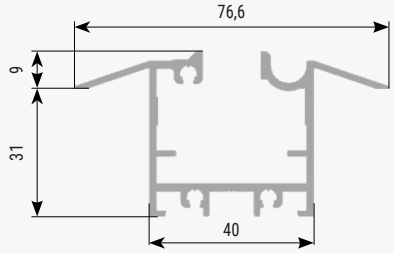
Sideframe



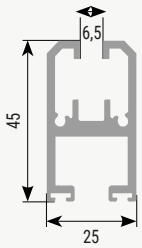
Bottom guide
profile



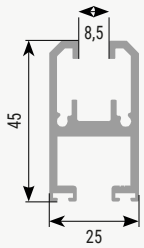
Embedded bottom guide
profile



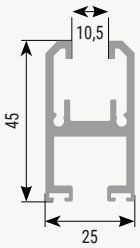
Profile for panel
6 mm Standard



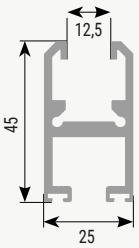
Profile for panel
8 mm Standard

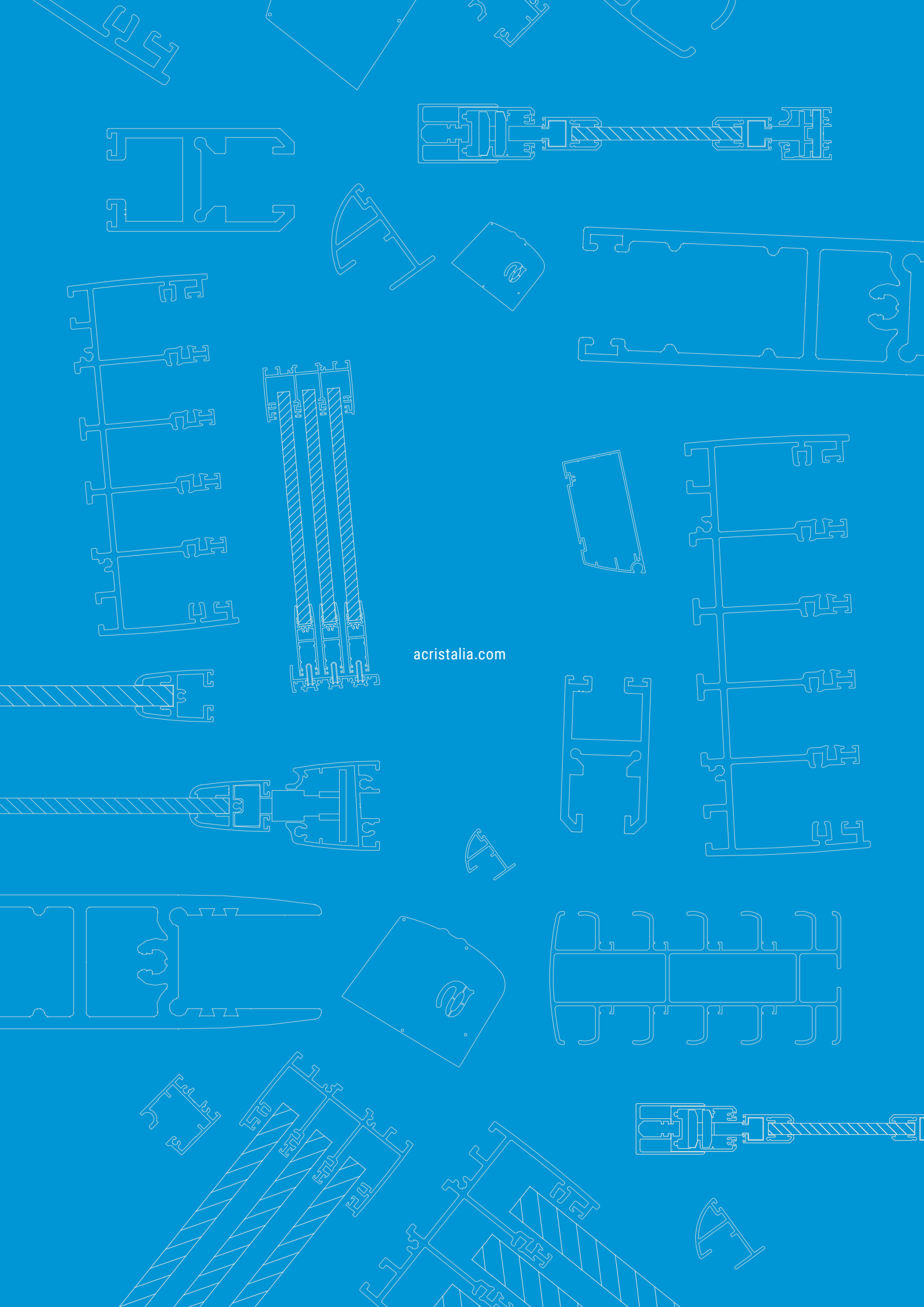


Profile for panel
10 mm Standard



Profile for panel
12 mm Standard

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