CORTIZO

ARCHITECTURAL ALUMINIUM SYSTEMS

Contemporary enclosures

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Flexible technology, useful architecture.

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CORTIZO

CORTIZO RESPONSE
{TECHNICAL ASSISTANCE}
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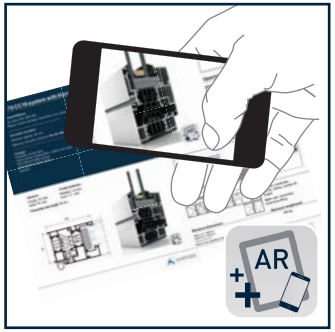
CORTIZO AR DISCOVER AUGMENTED REALITY

1

Download our application using your platform and access Cortizo AR.

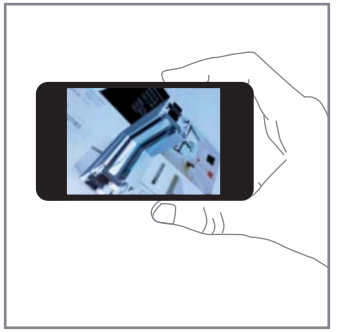
2

Focus the images indentified by the AR logo.
These images can be found equally in our catalogues as well as on our website.



3

Obtain a three dimensional view with all the luxury of the details of the main systems developed by CORTIZO.



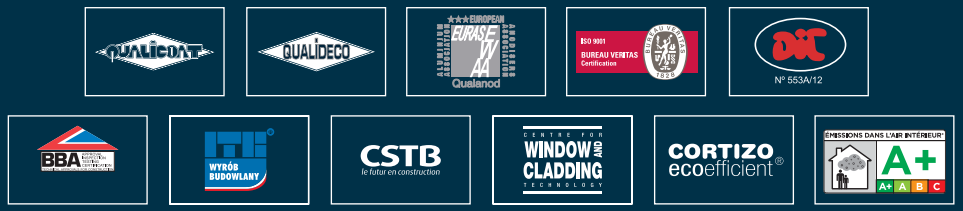
10_2016

CORTIZO has consolidated itself as a leader in Architectural aluminium systems and in construction thanks to a determined investment strategy in R & D that has resulted in the creation of more than 50 latest generation window, façade and solar protection systems.
We create windows and façades that are made to measure for each architectural Project.
Creativity in order to respond to aesthetics and functionality for each style requirement.
Creativity with respect to living surroundings and to quality.
Apartments, family homes, hotels, offices, comercial centres, universities, concessionaries, museums…

CORTIZO Design

QUALITY CERTIFICATIONS

CORTIZO counts on the maximum quality certifications in the market: Qualicoat, Sea-Side, Qualideco, Ewaa-Euras, ISO 900, DIT, BBA, Wyrób budowlany, CSTB, CWCT, etc



To be able to achieve quality certification is for CORTIZO a non-negotiable condition with respect to its responisbilities to the market. For this reason the CORTIZO Technology Centre has been created and relies on 6 test benches to be able to test all the window, door and light façade systems.

AEV test benches (Air permeability, Water tightness and Wind resistance)
Thermal test bench
Accoustic test bench
Mechanical test bench
Light façade horizontal load resistance and impact test bench
Wind loading resistance for solar protection louvres and lattices test bench
Static and dynamic test bench for balustrading system

CORTIZO certifies

ACCOUSTIC INSULATION

The R & D department has designed more than 50, latest generation, exclusive window, façade and solar protection systems that minimise the external accoustic contamination, ensuring comfort and intimacy in the home.
CORTIZO silence

LEADERS IN THERMAL INSULATION

Our enclosures optimise the energy saving in each home and incorporate the latest technological advances to form an insulation barrier that maxmises savings in heating and air conditioning.

CORTIZO energy efficiency

SUSTAINABLE SPIRIT

We use harmless products and raw materials in all our production processes, avoiding environmental risks just as much as in their transportation as their production.
CORTIZO Recycling has 2,100 recycling points strategically situated in order to close the circle ensuring a 100 per cent re-use and recycling of its aluminium.

CORTIZO sustainability

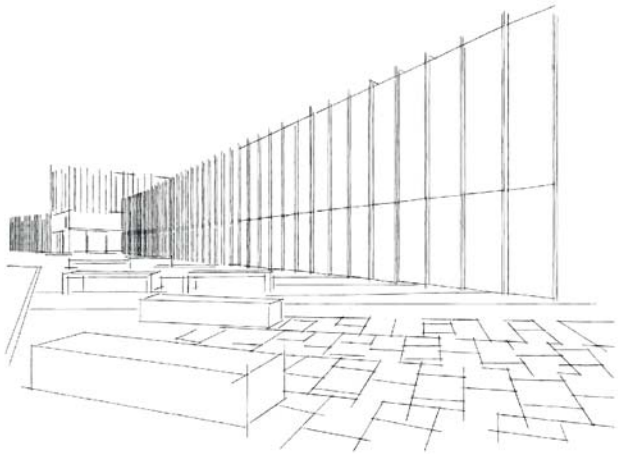
CORTIZO LAB

In order to help the work of all the agents involved in a project, CORTIZO has created CORTIZO LAB, an on-line computing application (www.cortizo.com) that serves as a virtual test laboratory in order to check the requirements established.
CORTIZO LAB allows the user to obtain automatically and on-line, tests, results and classifications of all the systems with respect to their thermal, accoustic, air permeability, water tightness and wind resistance features, as well as mechanical calculations of wind and snow loading and microventilation.

CORTIZO reliability


3.6

FAÇADES
SYSTEMS



TP 52 Façade

A new generation of façade consisting of a base system with an ample range of mullions and transoms that provides answers to the different style and construction needs for architectural projects by using integral solutions.

Its base profile range of 16 mm to 250 mm in mullions and 22.5 mm to 255.5 mm in transoms, and equally with the complementary accessories, are common to all of the new CORTIZO façades. The extensive profile range and their mechanical unions allows for all types of façades to be built (vertically, inclining, 90° corners, corners, polygonals) as well as resolving large and heavy glazing modulations.

This **TP 52 façade** is a traditional system, also known as the Stick system. The fixing of the glazing to the supporting profiles is carried out by way of a continuous pressure profile screwed externally to a screw port incorporated in the mullions and transoms. The glazing remains fixed at its 4 sides using this profile that is available with seperating gaskets in order to impede contact between the glazing and the metal. The pressure profile and the screws are covered by a continuous external embellishing profile known as a cover.

Great thermal breaking, together with an ample glazing capacity of up to 50 mm with glass compositions of large thicknesses and energy efficiency, gives to this new range of façades many excellent thermal and accoustic features.

Its seen external section coincides with the interior, being 52 mm

TP 52 Façade

Transmittance

Ucw from 0.6 (W/m²K)

Please consult dimensions and glass

Glazing

Maximum glazing: 50 mm.

Mínimum glazing: 4 mm.

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12152:2000): Class AE

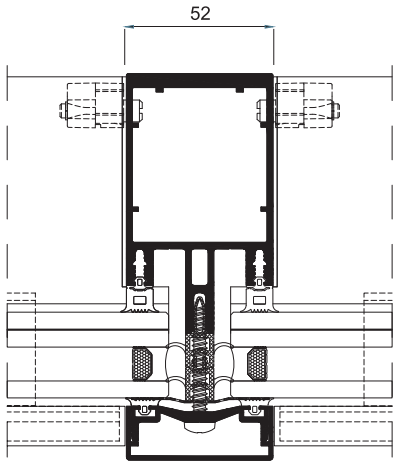
Water tightness
(EN 12154:2000): Class RE_{1500}

Wind resistance
(EN 13116:2001): APT
(design loading 2000 Pa- security loading 3000 Pa)
Test reference 3,00 x 3,50 m.

Certification **CWCT** British Standard

Internal seen section	Profile thickness
Mullion 52 mm.	2,1 & 3,0 mm.
Transom 52 mm.	2,1 mm.

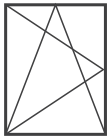
6, 12 & 30 mm stackable and thermally broken profiles



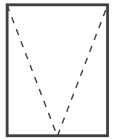
Covers

85 mm deep elliptical cover.
H shape cover, 34 mm deep.
Rectangular cover:14, 19 100 & 145 mm deep
Pyramid shape cover, 155 mm deep

Opening possibilities



Hidden turn-tilt



Hidden projecting

Maximum / Low dimensions

Projecting opening

Max. Width (L) = 2.500 mm. Min. Width (L) = 500 mm.
Max. Height(H) =2.500 mm. Min. Height (H) = 650 mm.

Turn-tilt opening

Max. Width (L) = 1.400 mm. Min. Width (L) = 500 mm.
Max. Height(H) =1.900 mm. Min. Height (H) = 600 mm.

Maximum weight

Projecting opening 180 Kg.
Turn-tilt opening 100 Kg.

SG 52 Façade

A new generation of façade consisting of a base system with an ample range of mullions and transoms that provides answers to the different style and construction needs for architectural projects.

Its base profile range of 16 mm to 250 mm in mullions and 22.5 mm to 255.5 mm in transoms, and equally with the complementary accessories, are common to the new CORTIZO façades. The extensive profile range and their mechanical unions allows for all types of façades to be built (vertically, inclining, 90° corners, corners and polygonals) as well as resolving large and heavy modulations.

This **SG 52 façade** is a traditional system, also known as the Stick system. The fixing of the glazing to the supporting profiles is carried out by using clips. This system requires an insert that is fitted in to the glazing chamber (U profile). The combination of the clip and the insert allows the glass to fastened on all four sides.

Great thermal breaking, together with an ample glazing capacity of up to 44mm with glass compositions of large thicknesses and energy efficiency, gives to this new range of façades many excellent thermal and accoustic features.

It has a “glass only” style on the exterior.

SG 52 Façade

Transmittance

Ucw from 0.6 (W/m²K)

Please consult dimensions and glass

Glazing

Maximum glazing: 44 mm.

Mínimum glazing: 6 mm.

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12152:2000): Class AE

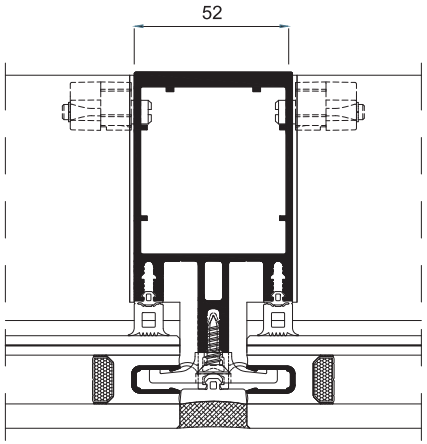
Water tightness
(EN 12154:2000): Class RE_{1500}

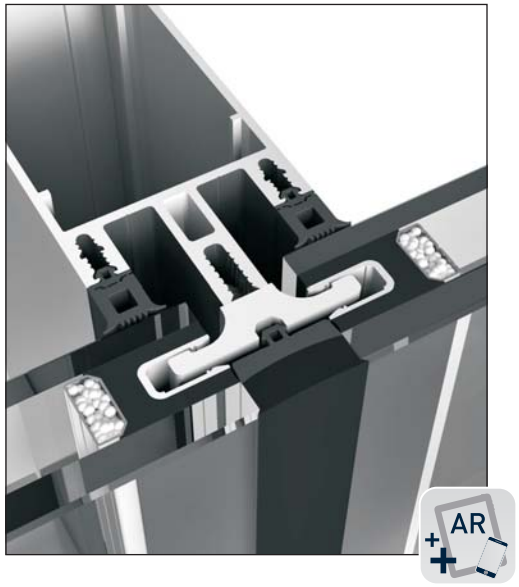
Wind resistance
(EN 13116:2001): APT
(design loading 2000 Pa- security loading 3000 Pa)
Test reference 3,00 x 3,50 m.

Certification **CWCT** British Standard

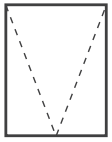
Internal seen section	Profile thickness
Mullion 52 mm.	2,1 & 3,0 mm.
Transom 52 mm.	2,1 mm.

6, 12 & 30 mm stackable and thermally broken profiles





Opening possibilities



Hidden projecting

Maximum / Low dimensions

Projecting opening
Max. Width (L) = 2.500 mm. Min. Width (L) = 500 mm.
Max. Height(H) =2.500 mm. Min. Height (H) = 650 mm.

Maximum weight

Projecting opening 180 Kg.

TPH 52 Façade

A new generation of façade consisting of a base system with an ample range of mullions and transoms that provides answers to the different style and construction needs for architectural projects.

Its base profile range of 16 mm to 250 mm in mullions and 22.5 mm to 255.5 mm in transoms, and equally with the complementary accessories, are common to the new CORTIZO façades. The extensive profile range and their mechanical unions allows for all types of façades to be built (vertically, inclining, 90° corners, corners and polygonals) as well as resolving large and heavy modulations.

This **TPH 52 façade** is a mixed system that evolved from the combination of the TP 52 and the SG 52 systems. It maintains the pairing of the pressure cover on the horizontal gaskets highlighting the line in this direction whilst the glazing fixing is achieved by way of clips and the U profile on its vertical edge.

Great thermal breaking, together with an ample glazing capacity of up to 44 mm with glass compositions of large thicknesses and energy efficiency, gives to this new range of façades many excellent thermal and accoustic features.

TPH 52 Façade

Transmittance

Ucw from 0.6 (W/m²K)

Please consult dimensions and glass

Glazing

Maximum glazing: 44 mm.

Mínimum glazing: 6 mm.

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12152:2000): Class AE

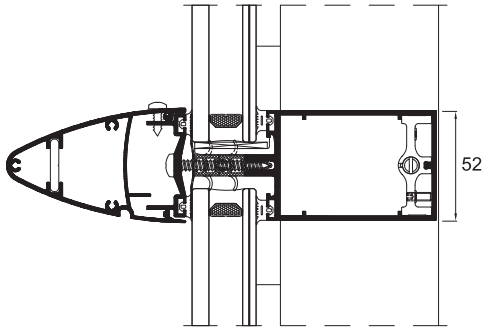
Water tightness
(EN 12154:2000): Class RE_{1500}

Wind resistance
(EN 13116:2001): APT
(design loading 2000 Pa- security loading 3000 Pa)
Test reference 3,00 x 3,50 m.

Certification **CWCT** British Standard

Internal seen section	Profile thickness
Mullion 52 mm.	2,1 & 3,0 mm.
Transom 52 mm.	2,1 mm.

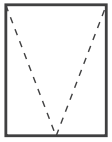
6, 12 & 30 mm stackable and thermally broken profiles



Covers

85 mm deep elliptical cover.
H shape cover, 34 mm deep.
Rectangular cover:14, 19 100 & 145 mm deep

Opening possibilities



Hidden projecting

Maximum / Low dimensions

Projecting opening

Max. Width (L) = 2.500 mm. Min. Width (L) = 500 mm.
Max. Height(H) =2.500 mm. Min. Height (H) = 650 mm.

Maximum weight

Projecting opening 180 Kg.

TPV 52 Façade

A new generation of façade consisting of a base system with an ample range of mullions and transoms that provides answers to the different style and construction needs for architectural projects.

Its base profile range of 16 mm to 250 mm in mullions and 22.5 mm to 255.5 mm in transoms, and equally with the complementary accessories, are common to the new CORTIZO façades. The extensive profile range and their mechanical unions allows for all types of façades to be built (vertically, inclining, 90° corners, corners and polygonals) as well as resolving large and heavy modulations.

This **TPV 52 façade** is a mixed system that evolved from the combination of the TP 52 and the SG 52 systems. It maintains the pairing of the pressure cover on the horizontal gaskets highlighting the line in this direction whilst the glazing fixing is achieved by way of clips and the U profile on its vertical edge.

Great thermal breaking, together with an ample glazing capacity of up to 44 mm with glass compositions of large thicknesses and energy efficiency, gives to this new range of façades many excellent thermal and accoustic features.

TPV 52 Façade

Transmittance

Ucw from 0.6 (W/m²K)

Please consult dimensions and glass

Glazing

Maximum glazing: 44 mm.

Mínimum glazing: 6 mm.

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12152:2000): Class AE

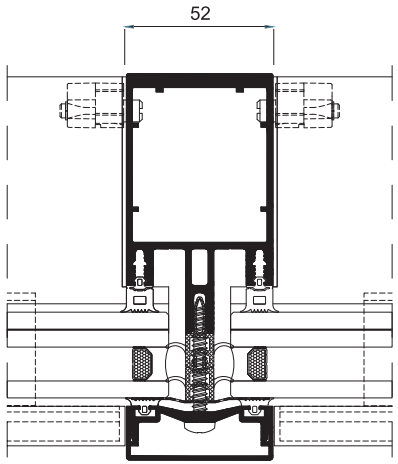
Water tightness
(EN 12154:2000): Class RE_{1500}

Wind resistance
(EN 13116:2001): APT
(design loading 2000 Pa- security loading 3000 Pa)
Test reference 3,00 x 3,50 m.

Certification **CWCT** British Standard

Internal seen section	Profile thickness
Mullion 52 mm.	2,1 & 3,0 mm.
Transom 52 mm.	2,1 mm.

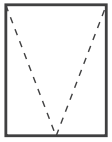
6, 12 & 30 mm stackable and thermally broken profiles



Covers

H shape cover, 34 mm deep.
Rectangular cover:14, 19 100 & 145 mm deep
Pyramid shape cover, 155 mm deep

Opening possibilities



Hidden projecting

Maximum / Low dimensions

Projecting opening

Max. Width (L) = 2.500 mm. Min. Width (L) = 500 mm.
Max. Height(H) =2.500 mm. Min. Height (H) = 650 mm.

Maximum weight

Projecting opening 180 Kg.

ST 52 Façace

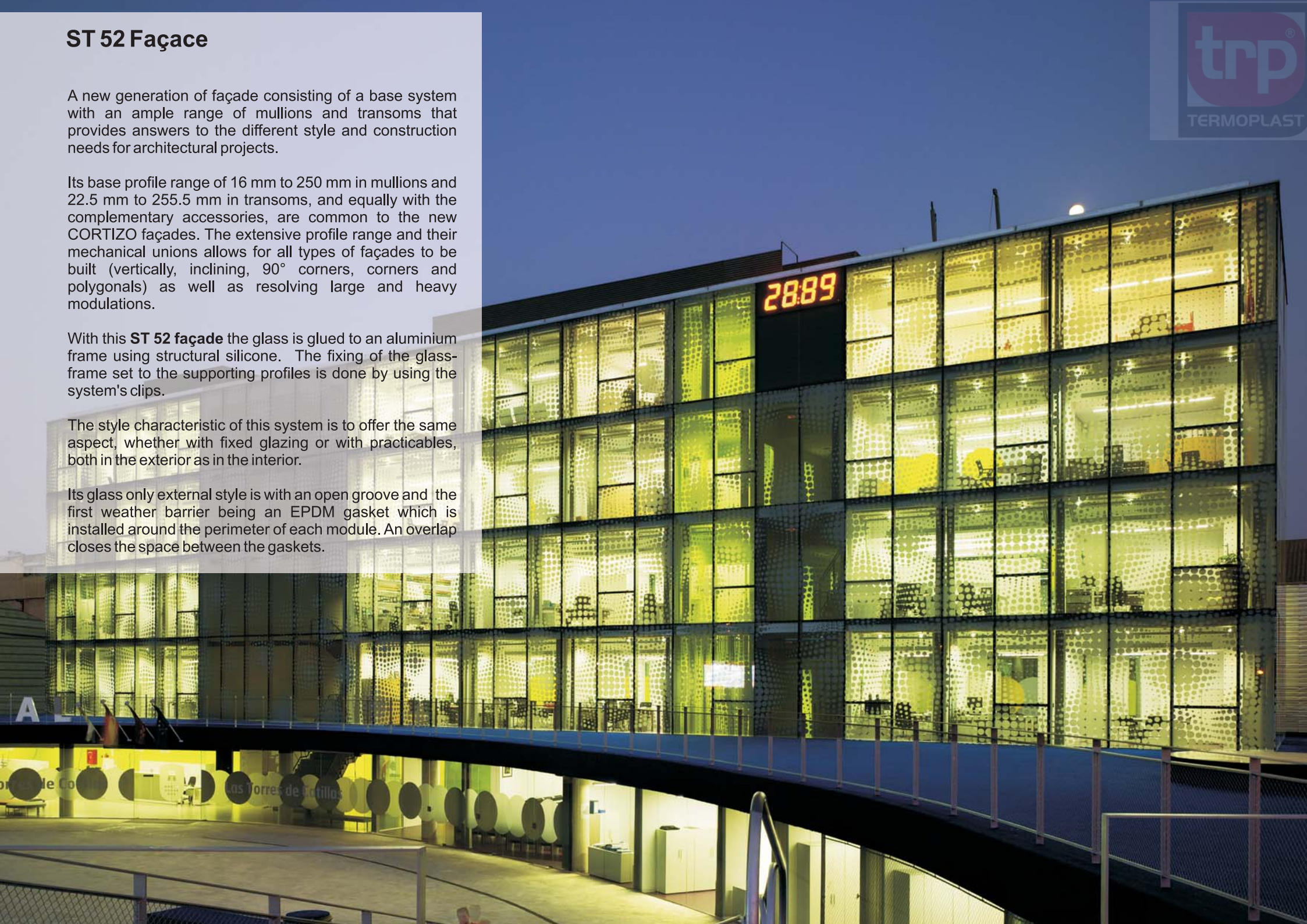
A new generation of façade consisting of a base system with an ample range of mullions and transoms that provides answers to the different style and construction needs for architectural projects.

Its base profile range of 16 mm to 250 mm in mullions and 22.5 mm to 255.5 mm in transoms, and equally with the complementary accessories, are common to the new CORTIZO façades. The extensive profile range and their mechanical unions allows for all types of façades to be built (vertically, inclining, 90° corners, corners and polygonals) as well as resolving large and heavy modulations.

With this **ST 52 façade** the glass is glued to an aluminium frame using structural silicone. The fixing of the glass-frame set to the supporting profiles is done by using the system's clips.

The style characteristic of this system is to offer the same aspect, whether with fixed glazing or with practicables, both in the exterior as in the interior.

Its glass only external style is with an open groove and the first weather barrier being an EPDM gasket which is installed around the perimeter of each module. An overlap closes the space between the gaskets.



ST52 Façade

Transmittance

Ucw from 0.7 (W/m²K)

Please consult dimensions and glass

Glazing

Maximum glazing: 38 mm.

Mínimum glazing: 6 mm.

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

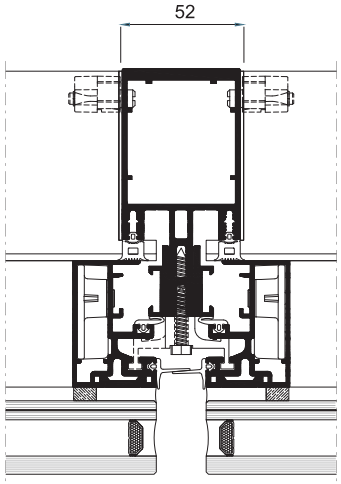
Categories achieved at test centre

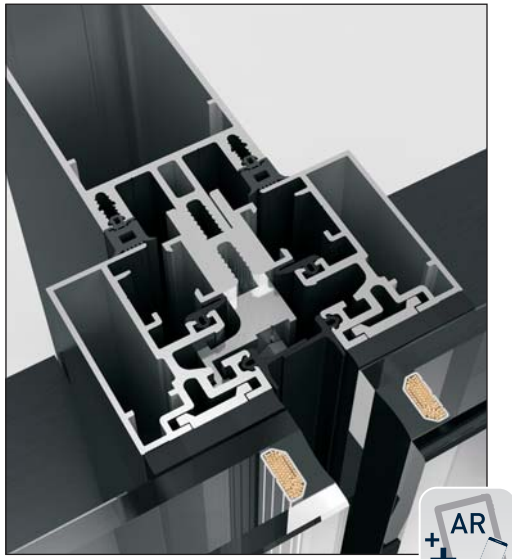
Air permeability
(EN 12152:2000): Class AE

Water tightness
(EN 12154:2000): Class RE_{750}

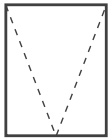
Wind resistance
(EN 13116:2001): APT
(design loading 1200 Pa- security loading 1800 Pa)
Test reference 3,00 x 3,50 m.

Internal seen section	Profile thickness
Mullion 52 mm.	2,1 & 3,0 mm.
Transom 52 mm.	2,1 mm.





Opening possibilities



Hidden projecting

Maximum / Low dimensions

Projecting opening
Max. Width (L) = 2.500 mm. Min. Width (L) = 500 mm.
Max. Height(H) =2.500 mm. Min. Height (H) = 650 mm.

Maximum weight

Projecting opening 180 Kg.

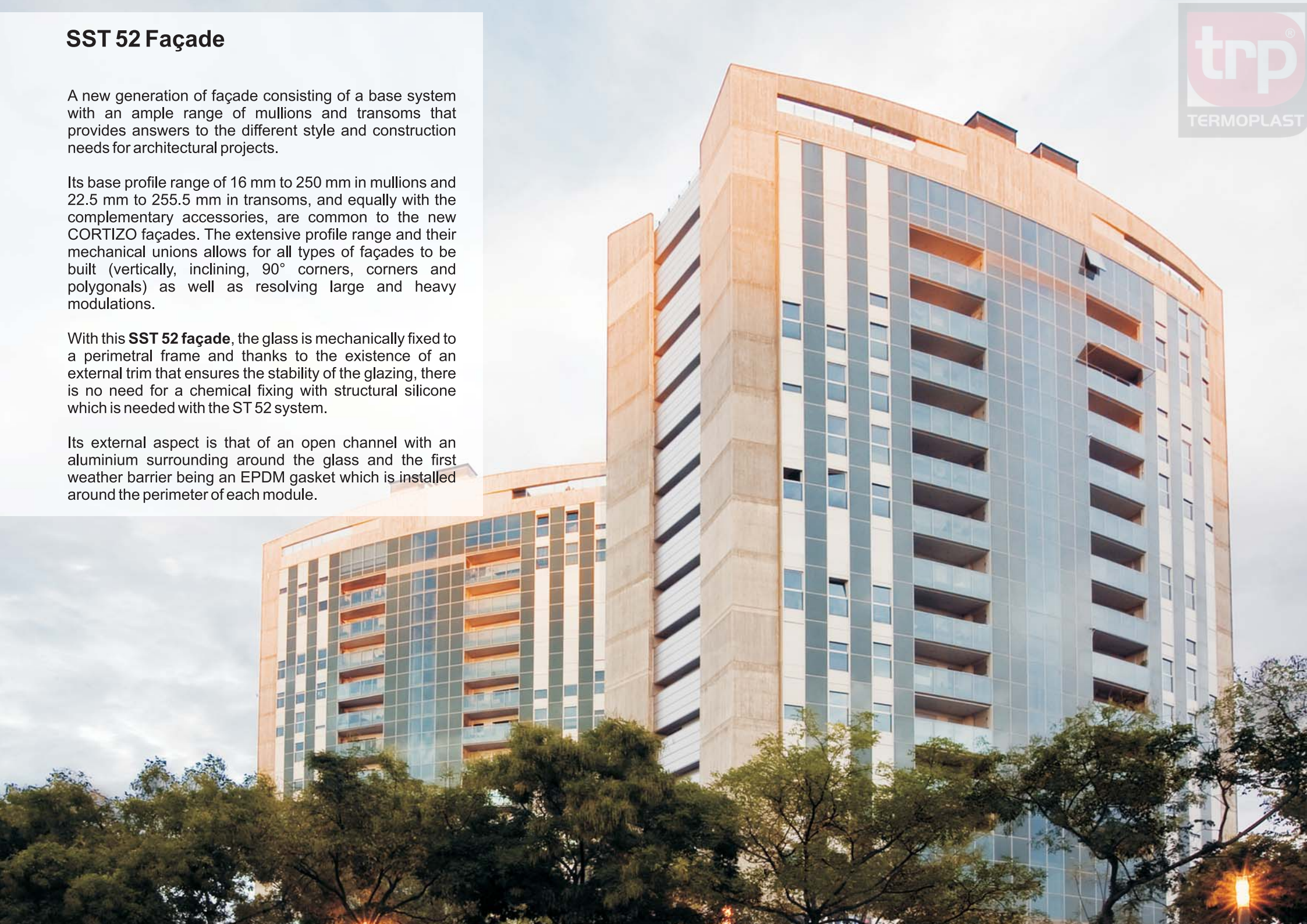
SST 52 Façade

A new generation of façade consisting of a base system with an ample range of mullions and transoms that provides answers to the different style and construction needs for architectural projects.

Its base profile range of 16 mm to 250 mm in mullions and 22.5 mm to 255.5 mm in transoms, and equally with the complementary accessories, are common to the new CORTIZO façades. The extensive profile range and their mechanical unions allows for all types of façades to be built (vertically, inclining, 90° corners, corners and polygonals) as well as resolving large and heavy modulations.

With this **SST 52 façade**, the glass is mechanically fixed to a perimetral frame and thanks to the existence of an external trim that ensures the stability of the glazing, there is no need for a chemical fixing with structural silicone which is needed with the ST 52 system.

Its external aspect is that of an open channel with an aluminium surrounding around the glass and the first weather barrier being an EPDM gasket which is installed around the perimeter of each module.



SST 52 Façace

Transmittance

Ucw from 0.8 (W/m²K)

Please consult dimensions and glass

Glazing

Maximum glazing: 28 mm.

Mínimum glazing: 6 mm.

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12152:2000): Class AE

Water tightness
(EN 12154:2000): Class RE_{750}

Wind resistance
(EN 13116:2001): APT
(design loading 1200 Pa- security loading 1800 Pa)
Test reference 3,00 x 3,50 m.

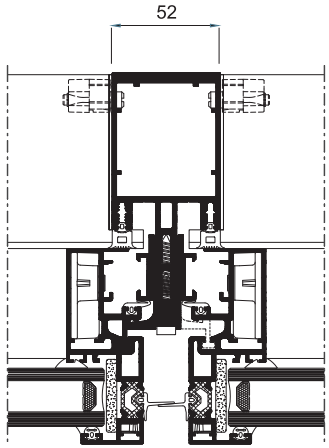
Internal seen section

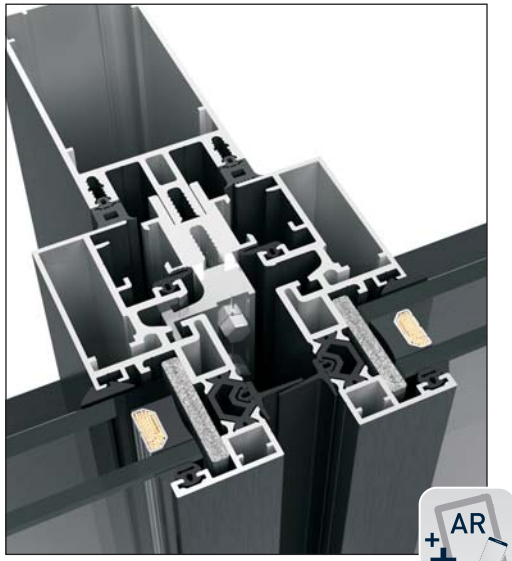
Mullion 52 mm.
Transom 52 mm.

Profile thickness

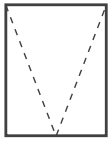
2,1 & 3,0 mm.
2,1 mm.

Thermal breaking 18 mm.





Opening possibilities



Hidden projecting

Maximum / Low dimensions

Projecting opening
Max. Width (L) = 2.500 mm. Min. Width (L) = 500 mm.
Max. Height(H) =2.500 mm. Min. Height (H) = 650 mm.

Maximum weight

Projecting opening 180 Kg.

Equity Façade

With a visible section from inside of just 18 mm, both in the mullion and the transom, this new system of curtain wall presents a minimalistic and slim aesthetic which provides the building with a total entrance of light.

Its mullions and transoms are flush in depth. As a result, the flush combination is uniform in the inside face of the curtain wall.

The great Thermal Break, combined with its large glazing capacity of up to 50 mm with thick and energy efficient glasses, provide this new range of curtain wall superb thermal and acoustic performance.

The combination of mullions and transoms is compatible with the following systems: TP 52, SG 52, TPH 52, TPV 52, ST 52 and SST 52.

Equity Façade

Transmittance

Ucw from 0.6 (W/m²K)

Please consult dimensions and glass

Glazing

Maximum glazing: 50 mm.

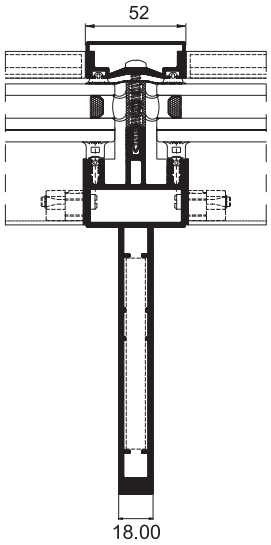
Mínimum glazing: 4 mm.

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Internal seen section	Profile thickness
Mullion 18 mm.	2,6 mm.
Transom 18 mm.	2,6 mm.

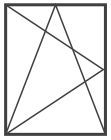
6, 12 & 30 mm stackable and thermally broken profiles



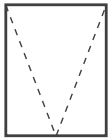
Covers

85 mm deep elliptical cover.
H shape cover, 34 mm deep.
Rectangular cover:14, 19 100 & 145 mm deep
Pyramid shape cover, 155 mm deep

Opening possibilities



Hidden turn-tilt
In combination with the system TPH 52



Hidden projecting

Maximum / Low dimensions

Projecting opening

Max. Width (L) = 2.500 mm. Min. Width (L) = 500 mm.
Max. Height(H) =2.500 mm. Min. Height (H) = 650 mm.

Turn-tilt opening

Max. Width (L) = 1.400 mm. Min. Width (L) = 500 mm.
Max. Height(H) =1.900 mm. Min. Height (H) = 600 mm.

Maximum weight

Projecting opening 180 Kg.
Turn-tilt opening 100 Kg.

Ventilated Façade

A double light façade system, structural or semi-structural in its external style.

It incorporates a 140 mm chamber between the external and internal glazing in order to allow for the natural ventilation of the façade, reducing the thermal transmission towards the interior and achieving large energy efficiency for the building.

Access to the chamber is possible by way of practicable openings that facilitate cleaning and maintenance.

Ventilated Façade

Transmittance

Ucw from 0,7 (W/m²K)

Please consult dimensions and glass

Glazing

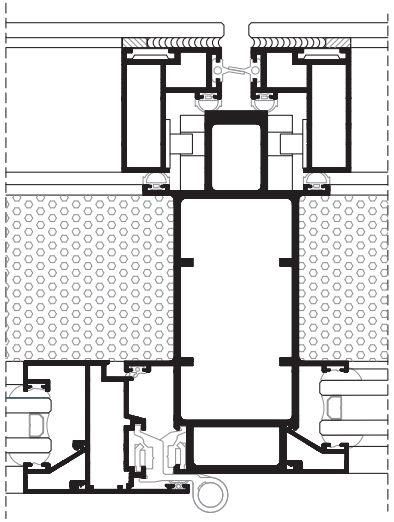
Recommended glazing is an externally tempered pane.
Maximum glazing:
- External: structural according to external glass weight
  semi-structural: 28 mm.
- Internal: 39 mm.

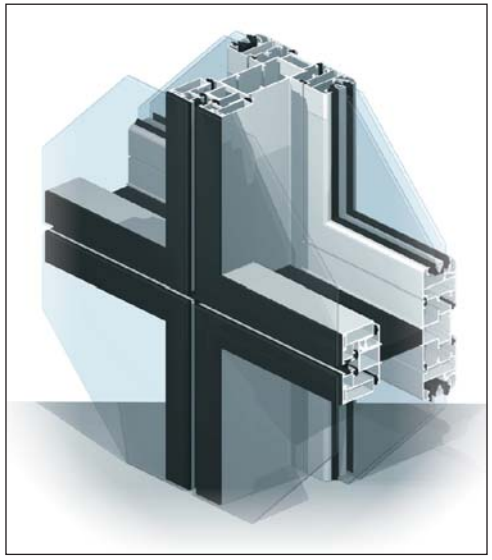
Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

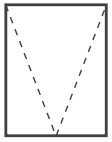
Sections

Mullion 145 mm.
Transom 45 & 34 mm.





Opening possibilities



Hidden projecting
Open-in for access to the ventilation chamber.

Maximum dimensions

Projecting opening
Max. Width (L) = 2.200 mm.
Max. Height(H) =2.200 mm.

Maximum weight

Projecting opening 140 Kg.
Fixed light 400 Kg.

Millennium Façade

A light façade system with external glazing fixed with grampons and fixing pieces: ball & socket or fixed. The grampons are made from stainless steel and surround the ball & socket and following this the previously machined glazing is fixed.

The supporting structure where the grampons are fixed to, is made up solely of vertical aluminium profiles that are high in thickness and resistance and consequently construction solutions with large fixed lights between supports are achieved.

This system is complemented by other profiles and gaskets that help to realise the most varied construction solutions.

Millennium Façade

Transmittance

Ucw from 0.8 (W/m²K)

Please consult dimensions and glass

Glazing

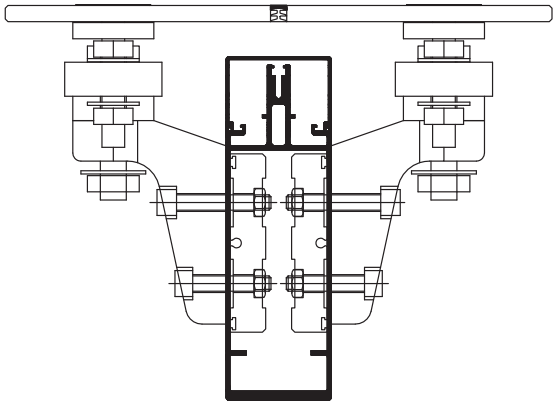
Tempered glass must be used.
Minimum glazing: 8 mm.
Maximum glazing: 26 mm.

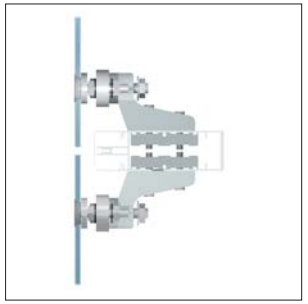
Finishes

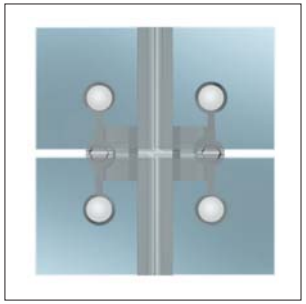
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Sections

Mullion 145, 170 & 210 mm.
Interior vertical section view 65 mm.







Solar protection: Louvres

A solar protection system for façades. This system of extruded aluminium louvres allows the light to be regulated and achieves notable savings in interior refridgeration due to the creation of shaded zones that reduce the need for energy in those areas.

In order to cover a variety of requirements, there are louvres of distinct dimensions that can adapt to all types of project.

This is a system with 2 louvre types: fixed and adjustable. The first type presents regulating possibilities in gradient with angles of 0º, 15º, 30º & 45º. The adjustable louvres also have an option to be motorized and as an option the regulating mechanism can be hidden which then allows the possibility of having an aesthetically pleasing clear façade.

The louvre that is used is shaped elliptically and can be placed vertically or horizontally. This individual elliptical shape not only allows that the less beneficial effects of solar light are avoided but also works as a decorative architectonical element. This solar protection system is particularly adequate for areas of great dimensions such as façades or curtain walls.

Solar protection: Louvres

Louvre types:
Fixed
Regulated at 0°, 15°, 30° ó 45°
Adjustable with motor

Louvre sizes	Maximum reccomended length*	
	Fixed louvres	Adjustable louvres
120 mm.	1,8 m.	
145 mm.	2,0 m.	1,9 m.
190 mm.	2,5 m.	2,4 m.
250 mm.	3,0 m.	3,0 m.
300 mm.	3,5 m.	3,4 m.
400 mm.	4,2 m.	4,0 m.

* Depending on project specifications, it is possible to reach a longer louvre length (please consult)

Categories achieved at test centre

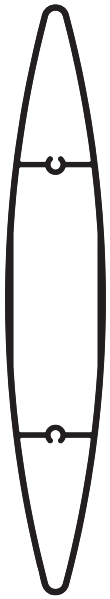
Wind loading resistance
(UNE 13659:2004): Class 6 (max.)
Test carried out according UNE 1932:2001
Reference test:

Louvres	Length
120 mm.	1,8 m.
145 mm.	2,0 m.
190 mm.	2,5 m.
250 mm.	3,0 m.
300 mm.	3,5 m.
400 mm.	4,2 m.

Finishes
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Profile thicknesses

Louvres	Thickness
120 mm.	1,75 mm.
145 mm.	1,80 mm.
190 mm.	2,50 mm.
250 mm.	2,75 mm.
300 mm.	3,45 mm.
400 mm.	3,80 mm.



Lattices-Decorative louvres

Extruded aluminium louvres designed for external and internal building finishing and looking for light and visibility control but always at the same time allowing for ventilation from one side to the other in the installation.

Ideal for courtyards, wall finishing, habitually used spaces etc.

Edificios de Viviendas . Parla . Madrid

Lattices-Decorative louvres

Louvre types:
Lattices
Decorative lattices
Clip lattices
Mini-lattices
Tubular louvres
Decorative louvres
Façade covering louvres:
-Punched
-Square ondulated

Louvre types:	Maximum recommended length	Visibility coefficient
Lattices	2,0 m.	71% to 55º
Decorative lattices	1,5 m.	56% to 50º
Clip lattices	2,1 m.	80% to 63º
Mini-lattices	1,3 m.	55% to 45º
Tubular louvres	2,0 m.	76% to 90º
Decorative louvres	6,5 m.	86% to 90º

* Depending on project specifications, it is possible to reach a longer louvre length (please consult)

Categories achieved at test centre

Wind loading resistance

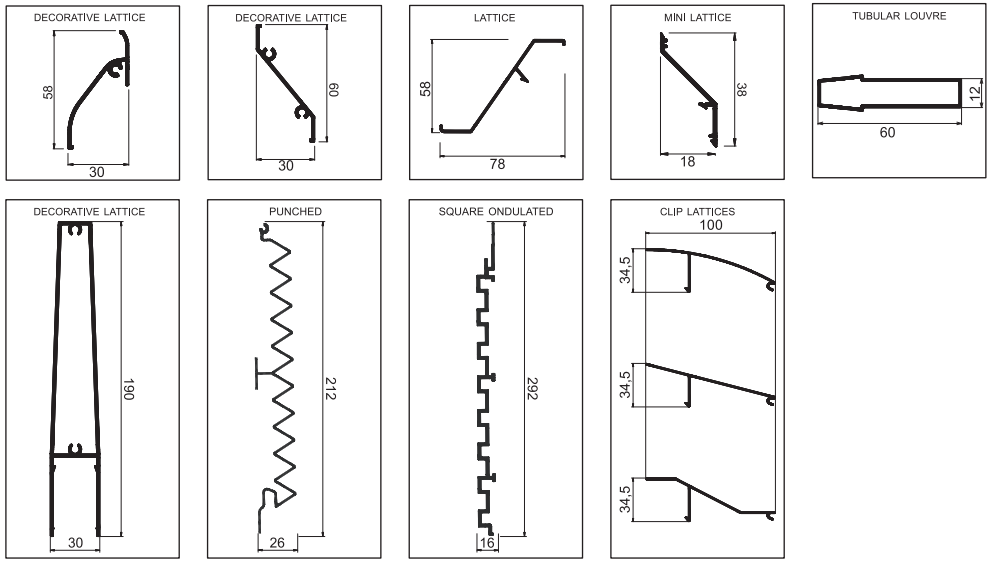
Lattice (test reference 2,0 metres)
(UNE 13659:2004): Class 6 (max.)

Mini-lattice (Test reference 1,3 metres)
(UNE 13659:2004): Class 5

Tubular louvres (Test reference 1,3 metres)
(UNE 13659:2004): Class 6 (max.)

Tests carried out according to UNE 1932:2001 norms

Finishes
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized



COMPOSITE PANEL SYSTEM

Composite Panel

This ventilated façade system is manufactured directly in the composite panel production centre that Cortizo has in Spain. This factory, with a daily production capacity of 5,400 m^2, guarantees the storage and immediate supply of this system in the various panel types and their finishes

Additionally, fabrication centres – with the latest generation of pantographs that are situated in production and distribution centres throughout Europe, facilitate the delivery of this constructive solution according to the modulation specifications that are defined in each of the projects.

Technical Departments that are exclusive for this product provide personalised help that is integral and specific in every architectonic project which includes Cortizo Composite Panel.

Certificates:

Spain | Great Britain | Poland | France

Furthermore, to ensure the quality in the assembly systems, the manufacturing and fabrication processes of the composite panel are certified by way of ISO 9001.

Composite Panel

A efficient, economic, stylish and sustainable construction solution for re-covering building façades that are made up of 2 aluminium sheets joined by a nucleus of thermoplastic resins.

A composite panel comprising of an external layer of aluminium alloy triple coated with PvdF paint (polyvinyl flouride) that offers great resistance to corrosion and ageing. The internal nucleus is made up of thermoplastic resins (polyethelene).

This material union provides the composite panel with some excellent mechanical properties: high impact resistance, increased rigidity and reduced weight. It is a product designed and tested to integrate in to buildings with increased thermal and accoustic features.

Categories achieved at test centre

Fire reaction classification

FR - B-s-1,d0
(according to EN-13501-1:2007 norm)

Transmittance

PE-U_{st}(W/m^2K) = 3,38
FR-U_{st}(W/m^2) = 5,62
For a panel dimensioned at 1.48 x 1.23 m.
Test according to EN ISO 12567-1:2000 norm

Accoustic insulation

RW (C;Ctr)(dB):(C;Ctr) = 26 (-1;-3)
For a panel dimensioned at 1.23 x 1.48 m.
Test according to EN ISO 140-3:1995 norm

Finishes

Painted in 22 solid & metallic colours in stock.

Pure White	Shadow grey	Metallic silver
Arctic White	Dark green	Metallic champagne
Garnet	Brown	Metallic bronze
Intense red	Black	Metallic Titanium
Orange	Ultramarine blue	Carbon
Traffic yellow	Metallic White	Metallic blue
Beige	Grey metallic	Jade green
		Metallic copper

All other RAL colours available on request

Panel types:

PE- standard (4mm. panel thickness - Al 0,5 m.)
FR – fire retardant (4mm. panel thickness - Al 0,5 m.)
INTDESIGN-interiors (3mm. panel thickness - Al 0.3 m.)

Aluminium alloys

3005H44 / 3105H44 / 3105H46 / 5005H22

Panel weight : :

PE- 5,46 Kg/m ^{2} **FR-** 8,02 Kg/m ^{2}
Intdesign- 3,85 Kg/m ^{2}

The composite panel is also available with the fire retardant option denominated FR (Fire Retardancy), that guarantees answers with respect to hypothetical fires. It is a 4 mm mm panel made up of 0.5 mm thick aluminium sheets, coated with PvdF paint with a thickness of 25/35 microns on the external face and a central nucleus consisting of a mineral composition and 3 mm thick polyethelene.

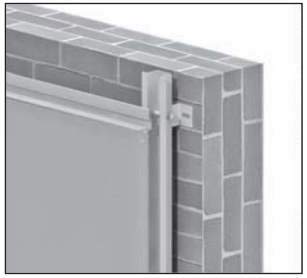
This range is completed with the INTDESIGN 3 mm thick panel which is ideal for internal applications, signage, digital printing, stands etc.

Certificates

- Spain: **DIT**
- Great Britain: **BBA**
- Poland: **Wyrób budowlany**
- France: **CSTB**

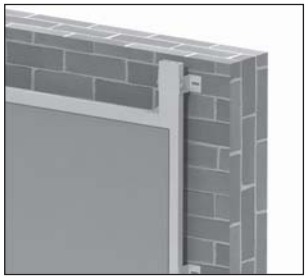
Fixing systems

CH
Hanging system

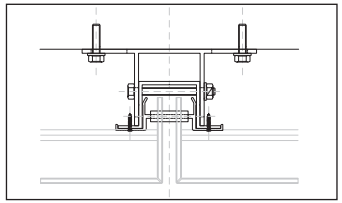


SZ
Male-Female system

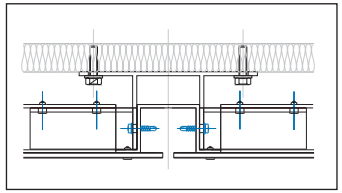
Riveted system



Glued system



CH-Hanging system



Riveted system

Sheet dimensions

		Width	Length
PE	Stock	1250-1500	4000-5000
	Made to measure	1250-1500	(Min/max) 2000/6000
FR	Stock	1250-1500	4000-5000
	Made to measure	1250-1500	(Min/max) 2000/6000
INTDESIGN	Stock	1500	3050-5050
	Made to measure	1000-1250	(Min/max) 2000/6000

SKYLIGHT – VERANDA – SLIDING ROOF SYSTEMS

Skylight-Veranda

A new generation of skylights and verandas made up of a base system with a wide range of mullions and transoms that resolve the different aesthetic and constructive requirements for the architectonic requirements using integral solutions that permit the achievement of new spaces with great luminosity.

The base profiles consist of mullions from 130 mm to 250 mm and transoms from 40.5 mm to 255.5 mm as well as the complementary accessories that are common to all of the CORTIZO range of new façades.

The Thermal Breaking area, together with an ample glazing capacity of up to 50 mm with glass compositions of large thicknesses and energy efficiency, gives to this new range of skylights and verandas, many excellent thermal and accoustic features.

The profile design with first, second and third level mullions and transoms, allows the possibility of different water escape levels that guarantee perfect drainage and ventilation, and in this way it ensures total weather tightness.

It allows the possibility of making skylights for gabled and hipped roofs and for the integration in the verandas of hinged and sliding series in its vertical facing.

Option of a motorized projecting opening in covered areas.

Skylight-Veranda

Transmittance
Ucw from 0.6 (W/m²K)
Please consult dimensions and glass

Glazing

Fixed lights: Maximum - 50 mm.
Minimum- 24 mm.

Roof window: Maximum - 46 mm.
Minimum- 24 mm.

Minimum incline Pt= 12% (7º)

Maximum incline Pt= 85% (40º)

Finishes
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12152:2000): Class AE

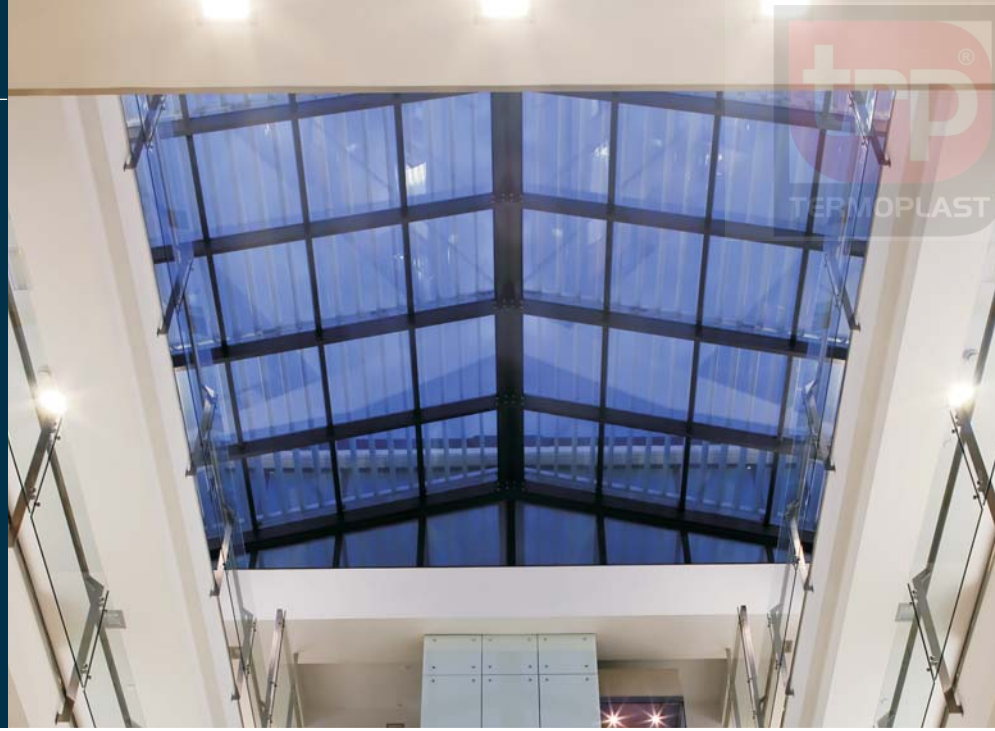
Water tightness
(EN 12154:2000): Class RE_{1500}

Wind resistance
(EN 13116:2001): APT
(design loading 2000 Pa- security loading 3000 Pa)
Test reference 3,00 x 3,50 m.

Air permeability
(EN 12207:2000): Class 4

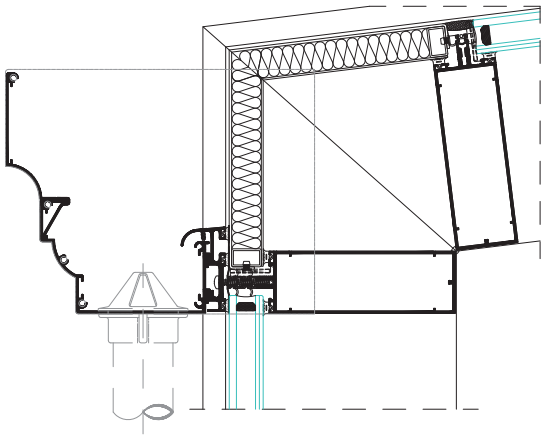
Water tightness
(EN 12208:2000): Class E1650

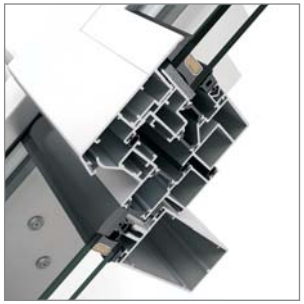
Wind resistance
(EN 12210:2000): Class C5
Reference test 1,23 x 1,48 m. 1 sash



Internal seen section
Mullion 52 mm.
Transom 52 mm.

Profile thickness
2,1 & 3,0 mm.
2,1 mm.





Opening possibilities

Open out: Projecting – covered motorization

Sliding Roof System

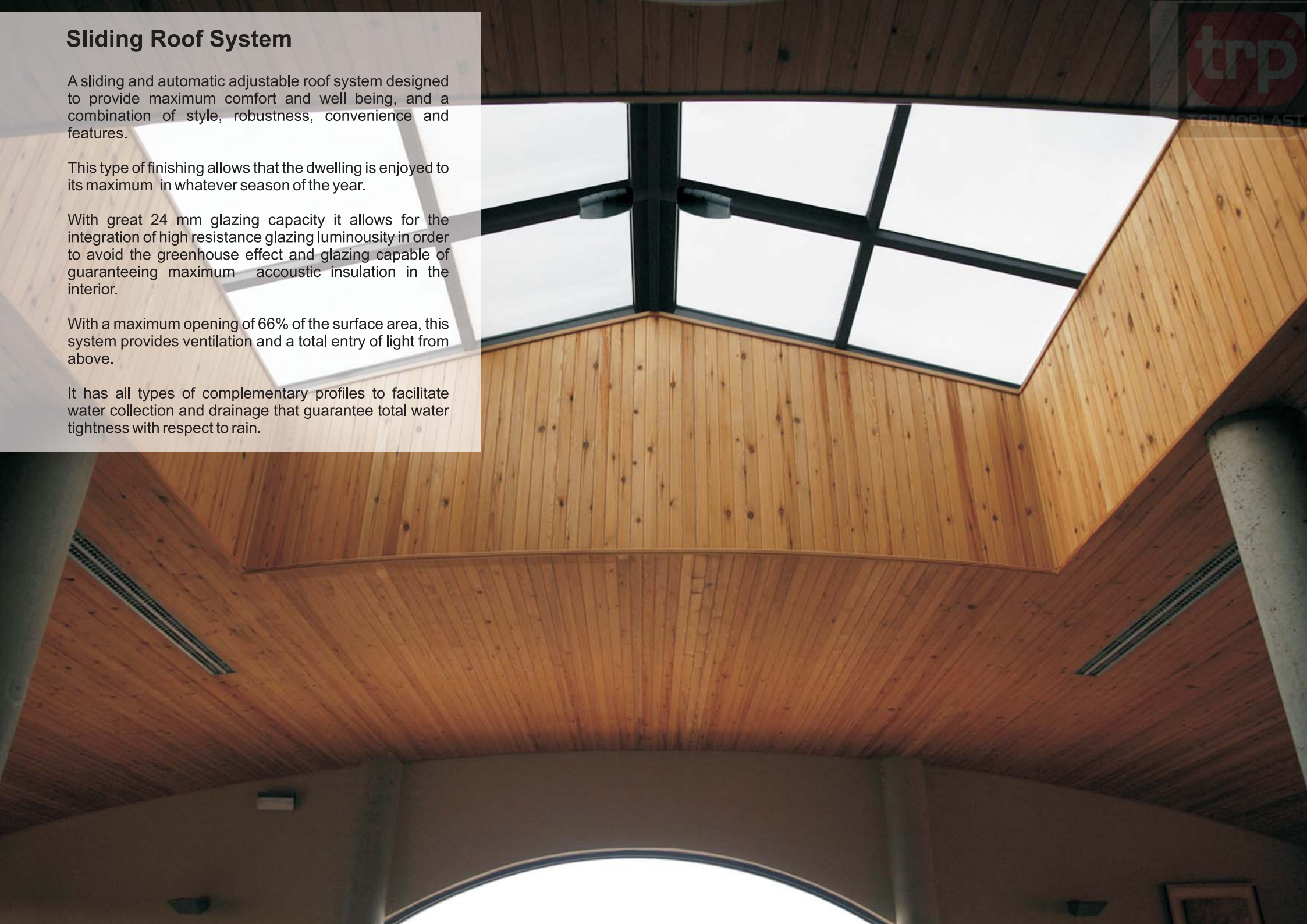
A sliding and automatic adjustable roof system designed to provide maximum comfort and well being, and a combination of style, robustness, convenience and features.

This type of finishing allows that the dwelling is enjoyed to its maximum in whatever season of the year.

With great 24 mm glazing capacity it allows for the integration of high resistance glazing luminousity in order to avoid the greenhouse effect and glazing capable of guaranteeing maximum accoustic insulation in the interior.

With a maximum opening of 66% of the surface area, this system provides ventilation and a total entry of light from above.

It has all types of complementary profiles to facilitate water collection and drainage that guarantee total water tightness with respect to rain.



Sliding Roof System

Pending

Profiles prepared for an inclination of 8,5° (15%)

Glazing possibilities

- 25 mm cellular polycarbonate.
- 24 mm panel sandwich.
- 24 mm glass. (4 tempered/ 12 /4+4)

Maximum light coverage: 4.800 mm.

Minimum light coverage: 3.100 mm.

Light width: Unlimited when joining modules

Categories achieved at test centre

Non flood covered area watertightness

Class APT

During the 6 hr. test, end of test and 24 hrs. following the same, no drips or humidity were detected in the enclosed area.
Test reference: 4300 x 41600 mm in 3 adjustable rows, 9 sashes and 4/12/4+4 glass

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti bacterial paint
Anodizing

Motorized sash openings

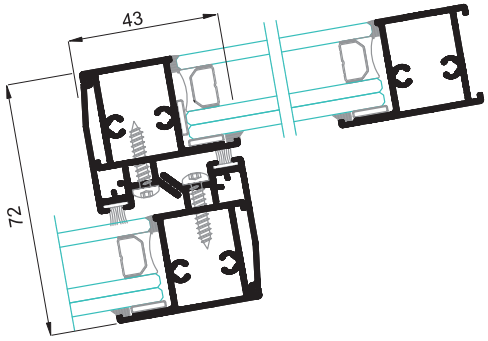
Maximum opening being 66% of the area

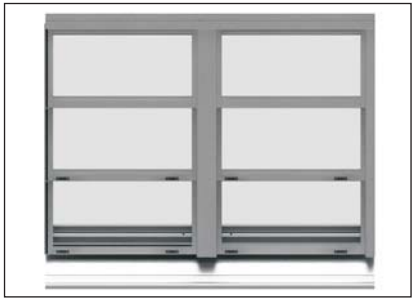
Sections

Frame 133 mm.
Sash 28 mm.

Profile thickness

Sashes 1,5 mm.





Opening possibilities

Example of 2 sashes 1 fix & 4 falls

Slider:
2 sashes 1fix module and multiple falls

Maximum dimensions

Width (L)= 2.300 mm. (polycarbonate and panel sandwich)
1.200 mm. (glass)
Height(H) = 1.600 mm.

Maximum weight

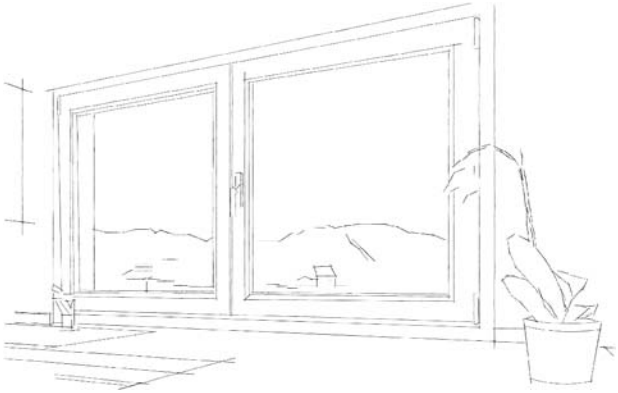
75 Kg.

WINDOW AND DOOR SYSTEMS

HINGED

With thermal break

Without thermal break



Cor-Urban CC System with thermal break

A hinged hidden double sash 122 mm system that allows for quadruple glazing facilitating a total accoustic silence and an optimum thermal insulation.

There is the possibility of incorporating a manual or motorized venetian blind or shutter in the internal (65 mm) chamber. Also access to the chamber is possible for cleaning and maintenance.

Additionally there is a quadruple gasket system that improves the thermal and accoustic insulation

Cor-Urban CC System with thermal break

Transmittance

Uw from 1,2 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing:

-external sash 22 mm.

-internal sash 30 mm.

Maximum accoustic insulation **Rw=50 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class E1650

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,23 x 1,48 m. 1 sash

Sections

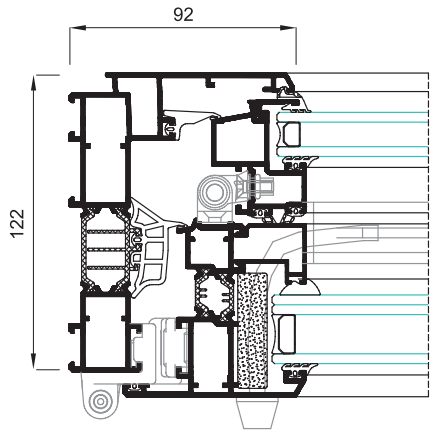
Frame 122 mm.
Sash 121 mm.

Profile thickness

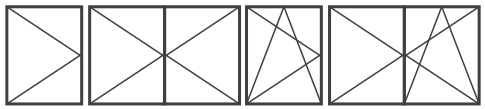
Window 1,6 mm.

Polyamide strip length

Frame 35 mm. Sash 20 mm.



Opening possibilities



Open in:

-practicable 1 or 2 sashes
-turn-tilt 1 or 2 sashes

Maximum dimensions/sash

Width (L) = 1.400 mm.
Height (H) = 2.200 mm.
Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

150 Kg.

Cor-70 CC16 System with thermal break

A hinged 70 mm window system with a potent insulation capacity and with a transmission value from only 0,8 W/m²K which has been achieved thanks to the perfect combination and design of aluminium profiles, 35 mm tubular polyamide rods, E.P.D.M tubular water tightness gaskets and a system of polyolefine foam that is fitted around the glazing space perimeter.

Possiblity of straight and chamfered sashes and straight, chamfered or curved beads.

With its large glazing capacity of 58 mm it presents to this system some excellent accoustic and thermal features allowing the use of large glazing thicknesses and energy efficiencies.

Allows for the possibility of incorporating hardware with concealed hinges.

Cor-70 CC16 System with thermal break

Transmittance

Uw from 0,8 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 58 mm.

Maximum accoustic insulation **Rw=46 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class E1500

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,23 x 1,48 m. 2 sashes

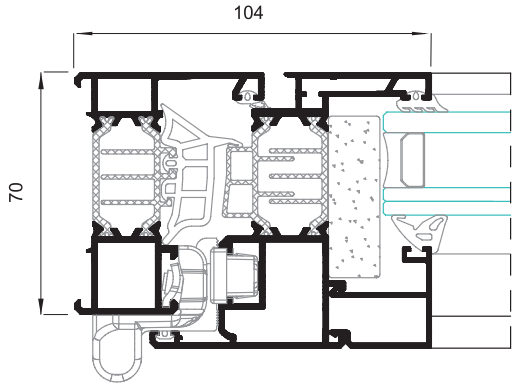
Sections

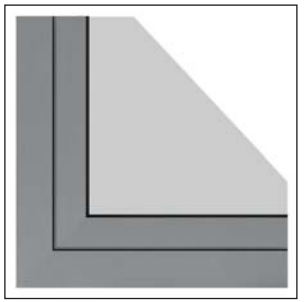
Frame 70 mm.
Sash 75 mm.

Profile thickness

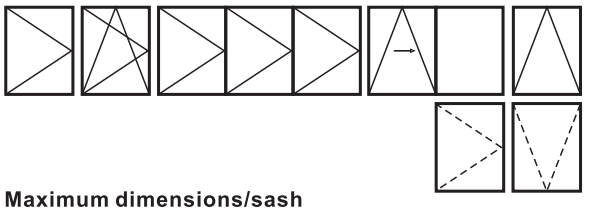
Window 1,5 mm.
Door 1,7 mm.

Polyamide strip length 35 mm.





Opening possibilities



Open in: practicable, turn-tilt, folding, parallel tilt, hinged.

Open out: practicable, projecting-sliding.

Maximum dimensions/sash

Width (L) = 1.600 mm.
Height (H) = 2.800 mm.

Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

150 Kg.

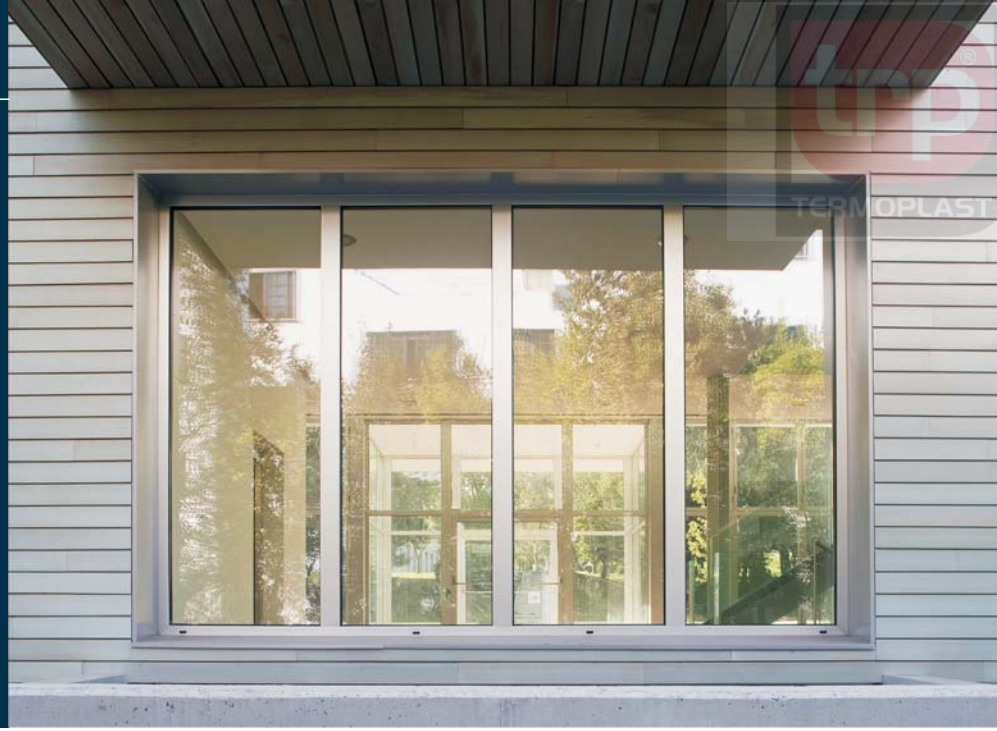
Cor-70 Hidden Sash CC16 System with thermal break

A 70 mm hinged hidden sash window system capable of uniting thermal features and profile slenderness.

Thanks to its profile design, it maintains the sash totally hidden from the outside in such a way that it is impossible to distinguish between the fixed zones that the opening has and is achieved by minimizing the seen profile section up to 70 mm which then maximizes the window glazing surface.

Allows for the possibility of incorporating hardware with concealed hinges.

Cor-70 Hidden Sash CC16 System with thermal break



Transmittance

Uw from 1,3 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 35 mm.

Maximum accoustic insulation **Rw=45 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class E1500

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,30 x 1,55 m. 1 sash

Sections

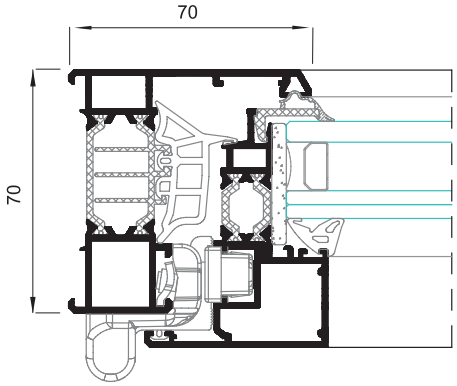
Frame 70 mm.
Sash 69 mm.

Profile thickness

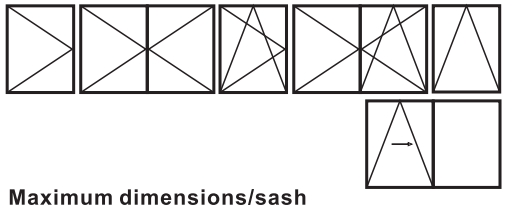
Window 1,5 mm.

Polyamide strip length

Frame 35 mm. Sash 16 & 20 mm.



Opening possibilities



Open in:
-practicable 1 or 2 sashes
-turn-tilt 1 or 2 sashes
-hinged
-parallel tilt

Maximum dimensions/sash

Width (L) = 1.600 mm.
Height (H) = 2.800 mm.

Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

150 Kg.

Cor-Galicia Premium Aluminium Timber System with thermal break

A development of the Cor Galicia Premium series which is a mixed composite system comprising of aluminium and timber with thermal break and has a 66.4 mm frame depth which maintains the use of standard hardware and offers the possibility of triple adjustment and front fixing.

It has a similar shape but with an improved thermal and acoustic performance over the previous system version and is about a more economic window to fabricate by simplifying this phase and reducing the necessary manufacturing time by between 15 to 20%.

It is made up of external aluminium profiles that are assembled with 14.6 & 16 mm polyamide strips that make up the thermal breaking zone and improves notably its thermal insulation and being able to reach minimum window transmission values of 1.1 (W/m2K).

The joining of the external aluminium frames and the internal timber mouldings can be carried out in two ways: by fixing independently with clips (this allows for the substitution of the mouldings and the possibility of other timber treatments that are different to those normally supplied) and by way of assembly using an EPDM gasket. In both cases, this assembly ensures a perfect absorption of the different material expansions.

Cor-Galicia Premium Aluminium Timber System with thermal break

Transmittance

Uw from 1,1 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 40 mm.(Sash)
30 mm.(Fix)

Maximum accoustic insulation **Rw=40 dBA**

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class E1050

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,23 x 1,48 m. 2 sashes

Finishes

Aluminium
Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Interior timber:
American Oak, Sapelly, Mellis Pine and other timber options available on order
(all of which are treated with an ecological varnish that is without dissolvent and is satin and transparent).

Sections

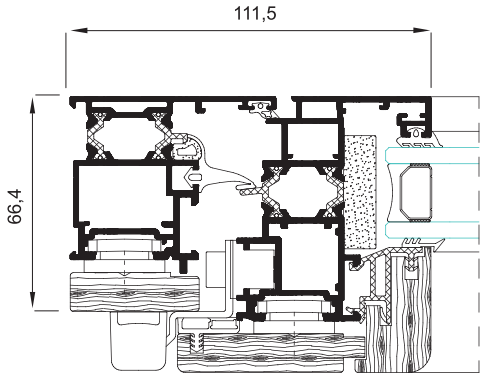
Frame 66,4 mm.
Sash 85,3 mm.

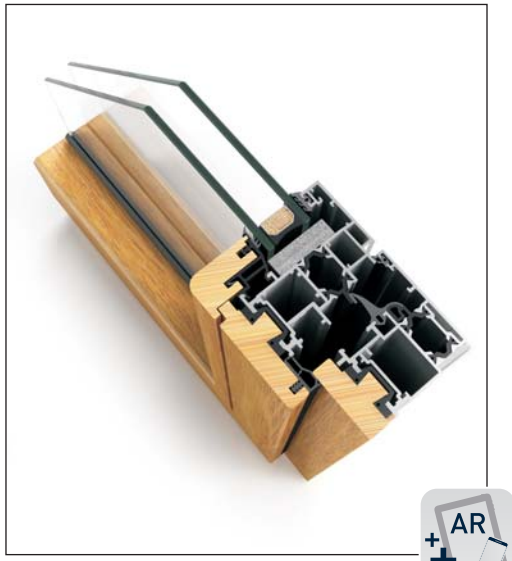
Profile thickness

Window 1,5 mm.
Door 1,6 mm.

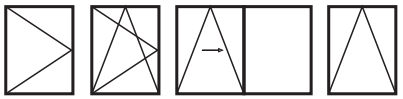
Polyamide strip length

Frame 14.8 mm. Sash 16 mm.





Opening possibilities



Open in: practicable, turn-tilt parallel tilt, hinged.

Maximum dimensions/sash

Width (L) = 1.400 mm.
Height (H) = 2.400 mm.

Maximum weight/sash

100 Kg.

Please consult regarding maximum weight and dimensions according to types

Cor-80 Industrial System with thermal break

A new concept of a Euro-Groove hinged system capable of reaching the maximum levels of weather tightness, energy saving and acoustic protection with reduced assembly and fabrication time.

With 80 mm of frame depth, it responds to the most severe climatic demands, and provides an unbeatable degree of energy efficiency thanks to its minimal window transmission value (Uw) that can reach 0.8 W/m²K. These minimum values are achieved thanks to the perfect design of the thermal break zone with 45 mm tubular polyamide strips as well as the incorporation of cross-linked polyolefin both in the glazing space as well as the interior of the frame and sash.

Its great glazing capacity of up to 65 mm allows for the use of energy efficient glazing and compositions of large thicknesses as well as double chambers that gives excellent thermal and acoustic performance (up to 46 dB of noise protection) that translates in to maximum energy saving and total interior comfort.

The performance achieved in the AEV test, has shown this window to have the best water tightness performance, air permeability and wind resistance in order to guarantee the greatest protection against the most adverse atmospheric agents.

The simplicity in its assembly and less labour time, allows for a more industrialized fabrication resulting in a final saving of time and cost.

Cor-80 Industrial System with thermal break

Transmittance

Uw from 0,8 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 65 mm.

Maximum accoustic insulation **Rw=46 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class E1950

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,23 x 1,48 m. 2 sashes

Possibility of incorporating hardware with concealed hinges.

Possibility of incorporating security hardware Evo Security.

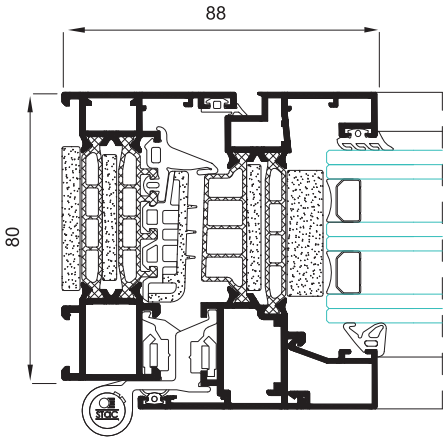
Sections

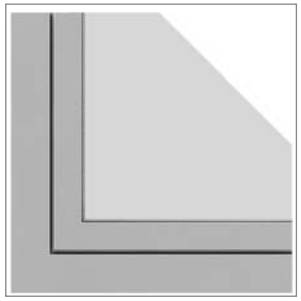
Frame 80 mm.
Sash 88 mm.

Profile thickness

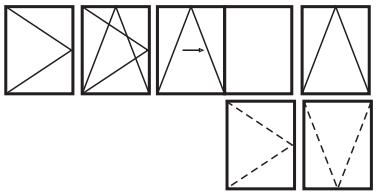
Window 1,5 mm.
Door 1,7 mm.

Polyamide strip length 45 mm.





Opening possibilities



Open in: practicable, turn-tilt, parallel tilt, hinged.

Open out: practicable, projecting-sliding.

Maximum dimensions/sash

Width (L) = 1.600 mm.
Height (H) = 2.600 mm.

Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

120 Kg.

Cor-70 Industrial System with thermal break

A hinged window system that was conceived with the object of satisfying the needs of a determined market segment for an economical window system, simple but versatile with many features.

With a 70 mm frame depth and Euro Groove opening gearing, this innovation from the R&D Department has thermal transmission from only 0,9 W/m²K in order to adapt to distinct climatic severities and material demands on energy efficiency.

Its simplicity in fitting and reduced need for labour allows for a more industrialised manufacture resulting with time and cost savings at the end.

It features a straight or curved style in both sash and bead.

A glazing capacity of 55 mm that allows the use of energy efficient glazing and compositions with large thicknesses and affords this system excellent accoustic and thermal

Cor-70 Industrial System with thermal break

Transmittance

Uw from 0,9 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 55 mm.

Maximum accoustic insulation **Rw=44 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class E1200

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,23 x 1,48 m. 2 sashes

Burgular resistant
(EN 1627:2011): Grade RC2 (WK2)
Reference test 2,52 x 1,47 m. 1 sash
with EVO SECURITY hardware

Possibility of incorporating hardware with concealed hinges.

Possibility of incorporating security hardware Evo Security.

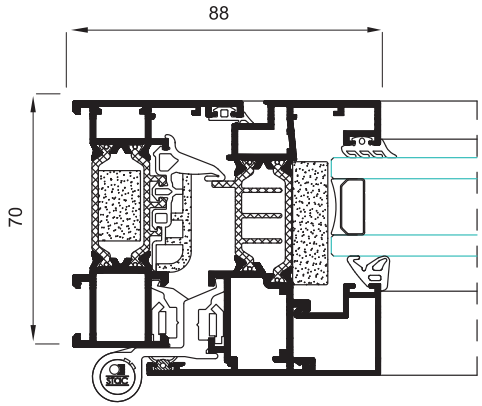
Sections

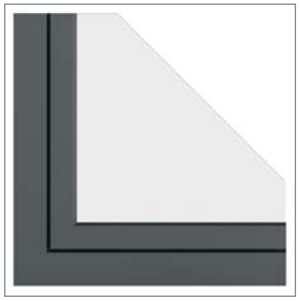
Frame 70 mm.
Sash 78 mm.

Profile thickness

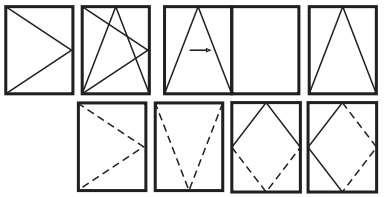
Window 1,5 mm.
Door 1,7 mm.

Polyamide strip length from 32 to 35 mm.





Opening possibilities



Open in: practicable, turn-tilt, parallel tilt, hinged.

Open out: practicable, projecting-sliding, pivoting on horizontal or vertical axis

Maximum dimensions/sash

Width (L) = 1.600 mm.
Height (H) = 2.600 mm.

Maximum weight/sash

120 Kg.

Please consult regarding maximum weight and dimensions according to types

Cor-70 Hidden Sash System with thermal break

A new Euro-Groove concealed sash window design with slim profiles that are characterized by a seen surface of only 66 mm from the exterior that maximises the glazing surface and is able to reach 85% of the total window glazing. This characteristic provides an extraordinary increase in luminosity in the inside of the dwelling.

Its design allows for the hidden sash to be maintained from the outside in such a way that it is impossible to distinguish from the fixed zones that the opening has and therefore achieving perfect homogeneity in the façade's style.

A 35 mm thermally broken area and the insertion of polyolefin sponge in the frame and sash allows it to reach values of up to 1,0 W/m²K of transmission in the space and therefore maximising its energy efficiency. These high thermal performances are completed with an increased level of sound insulation that this system achieves thanks to the possibility of installing glazing units of up to 40 mm in thickness.

The classifications achieved in the AEV tests go to prove that the system has excellent water tightness, air permeability and wind resistance values in order to obtain increased protection against the most unfavourable weather conditions.

Cor-70 Hidden Sash System with thermal break

Transmittance

Uw from 1,0 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 40 mm.

Maximum accoustic insulation **Rw=46 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

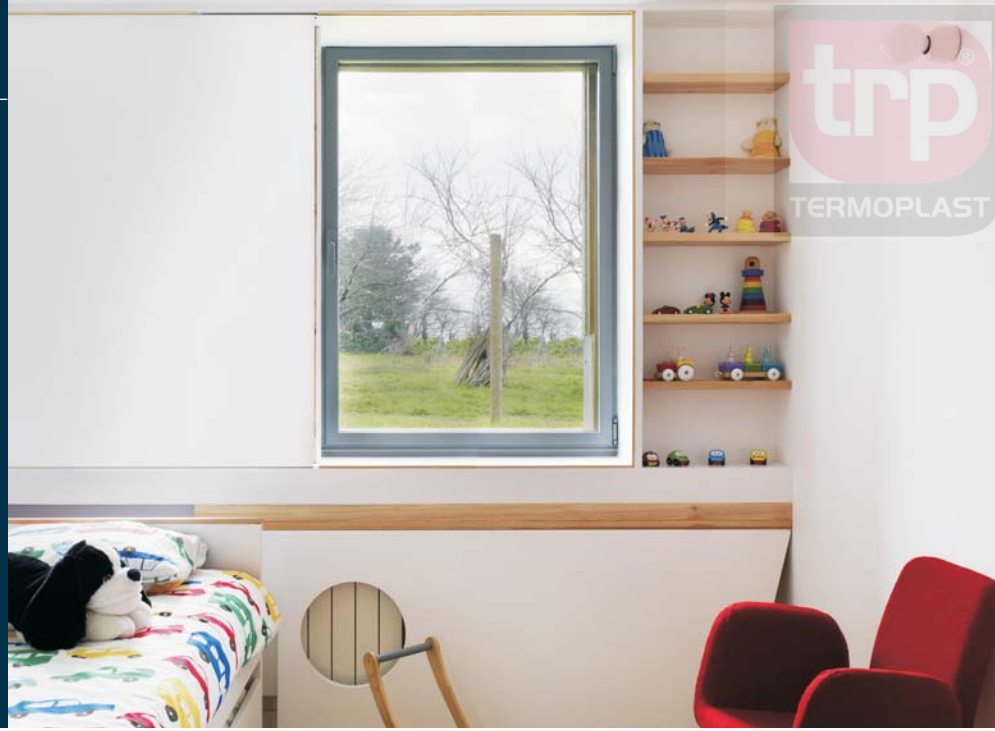
Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class E1650

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,23 x 1,48 m. 2 sashes

Possibility of incorporating hardware with concealed hinges.

Possibility of incorporating security hardware Evo Security.



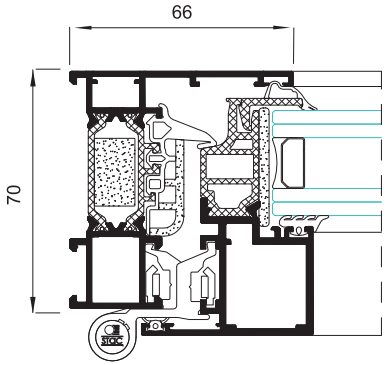
Sections

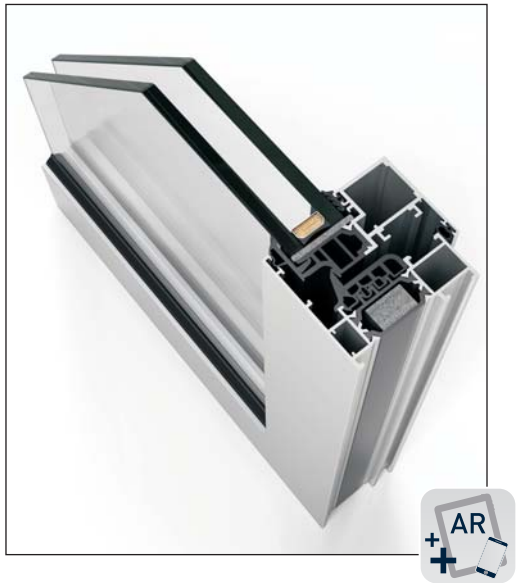
Frame 70 mm.
Sash 70 mm.

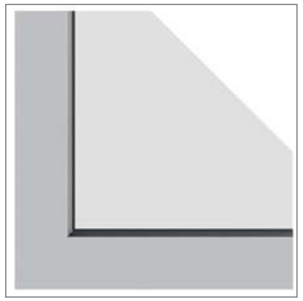
Profile thickness

Window 1,9 mm.

Polyamide strip length 35 mm.







Opening possibilities

Open in:
Practicable 1 & 2 sashes,
Turn-tilt 1 & 2 sashes
Hinged

Maximum dimensions/sash

Width (L) = 1.300 mm.
Height (H) = 2.400 mm.

Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

120 Kg.

Cor-60 System with thermal break

Cor-60 System with thermal break

Transmittance

Uw from 1,0 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 46 mm.

Maximum accoustic insulation **Rw=48 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class E1200

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,20 x 1,16 m. 2 sashes

Possibility of straight or curved sashes and beads

Possibility of incorporating hardware with concealed hinges.

Possibility of incorporating security hardware - Evo Security.

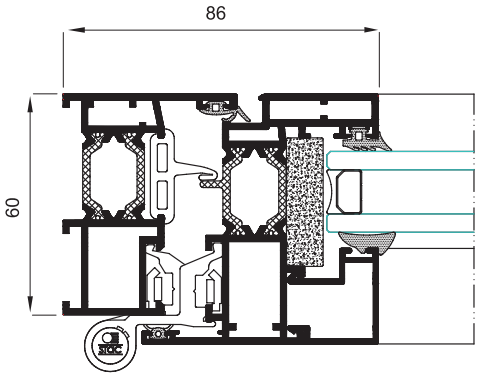
Sections

Frame 60 mm.
Sash 68 mm.

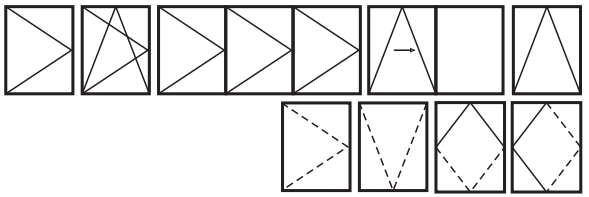
Profile thickness

Window 1,6 mm.
Door 1,6 mm.

Polyamide strip length 24 mm.



Opening possibilities



Open in: practicable, turn-tilt, folding, parallel tilt, hinged.

Open out: practicable, projecting-sliding, pivoting on horizontal or vertical axis

Maximum dimensions/sash

Width (L) = 1.500 mm.
Height (H) = 2.600 mm.

Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

120 Kg.

Cor-3500 System with thermal break

Cor-3500 System with thermal break

Transmittance

Uw from 1,0 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 41 mm.

Maximum accoustic insulation **Rw=46 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class E1200

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,20 x 1,20 m. 2 sashes

Possibility of straight or curved sashes and beads

Possibility of incorporating hardware with concealed hinges.

Possibility of incorporating security hardware - Evo Security.

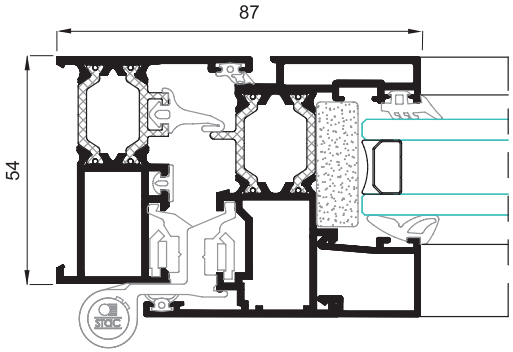
Sections

Frame 54 mm.
Sash 63 mm.

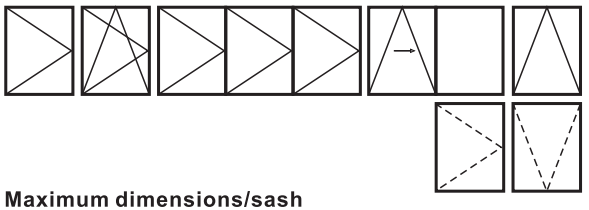
Profile thickness

Window 1,5 mm.
Door 1,7 mm

Polyamide strip length 24 mm.



Opening possibilities



Open in: practicable, turn-tilt, folding, parallel tilt, hinged.

Open out: practicable, projecting-sliding.

Maximum dimensions/sash

Width (L) = 1.500 mm.
Height (H) = 2.400 mm.

Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

120 Kg.

Millennium FR Door System with thermal break

This new fire resistant door system that has a fire resistance classification of $EI_2 60$, resolves the security requirements in case of fire, allowing for the compartimentalization in fire sectors in the building and the evacuation of the users.

Comprising of 80 mm section straight line coplanar profiles, 2.2 mm thick and a 35 mm thermal breaking zone, it offers a 60 minute fire resistance time thanks to the utilisation of retardant insulation materials that do not combust in the profile chambers as well as intumescentant gaskets that dilate and bio-soluble paper in the glass area.

With a transmission value from 1,4 W/m²K, it reaches unbeatable thermal features and with its large glazing capacity having a free space of 48 mm, it guarantees a maximum accoustic insulation.

Possibility of joining with fixed lights, incorporation of opening gearing with anti-panic function, automatic door closers and handles/hinges officially approved in the sectoring of fires.

Millennium FR Door System with thermal break

Transmittance

Uw from 1,4 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 48 mm.

Maximum accoustic insulation **Rw=38 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Fire resistance and smoke control

Test carried out according to norms
EN 1364-1:2000 and EN 1634-1:2010

CLASS $EI_2$60 - C5

Classification according to norm UNE-EN 13501-2:2009+A1:2010
(C5= 200.000 test cycles)

Door test reference 1,35 x 2,35 m. 1 sash
Glass EI60 single glazed 23 to 25 mm.

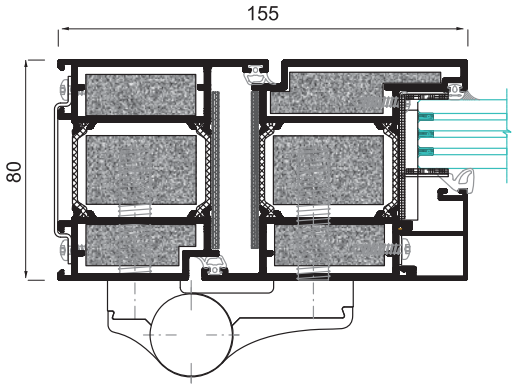
Sections

Frame 80 mm.
Sash 80 mm.

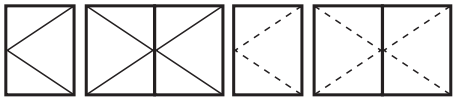
Profile thickness

Door 2,2 mm.

Polyamide strip length 35 mm.



Opening possibilities



Open in: practicable
1 or 2 sashes.
Open Out: practicable
1 or 2 sashes.

Maximum dimensions/sash

Width (L) = 1.500 mm.
Height (H) = 2.600 mm.

Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

240 Kg.

Millennium Plus 80 Door System with thermal break

New coplanar door entry system with straight 70 mm and thermally broken for commercial premises and buildings.

With a transmission value from only 0.8 W/m²K, it reaches unbeatable thermal features and its great glazing capacity of 64 mm, guarantees a máximum accoustic insulation.

Possibility of **high resistance hinges** (face fix or re-inforced in to the channel) capable of supporting up to 220 kgs in weight per sash.

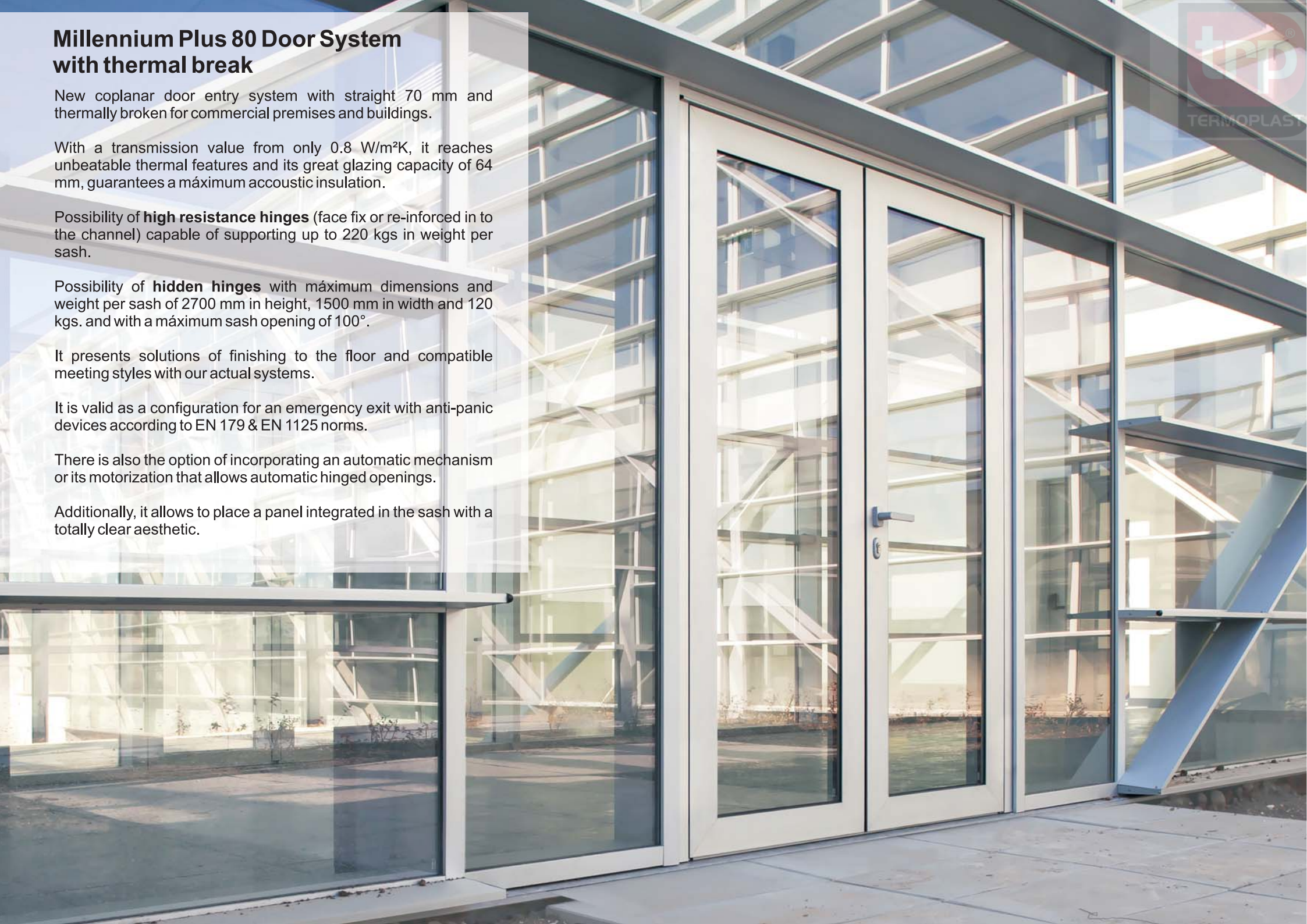
Possibility of **hidden hinges** with máximum dimensions and weight per sash of 2700 mm in height, 1500 mm in width and 120 kgs. and with a máximum sash opening of 100°.

It presents solutions of finishing to the floor and compatible meeting styles with our actual systems.

It is valid as a configuration for an emergency exit with anti-panic devices according to EN 179 & EN 1125 norms.

There is also the option of incorporating an automatic mechanism or its motorization that allows automatic hinged openings.

Additionally, it allows to place a panel integrated in the sash with a totally clear aesthetic.



Millennium Plus 80 Door System with thermal break

Transmittance

Uw from 0.8 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 64 mm.

Maximum accoustic insulation **Rw=40 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability (EN 12207:2000): **Class 4**

Water tightness (EN 12208:2000): **Class 6A**

Wind resistance (EN 12210:2000): **Class C4**

Door test reference 1,20 x 2,30 m. 1 sash

Resistance to mild impact

Test carried out according to norm EN 13049:2003

CLASS 5 (max)

Test on door reference 1,80 x 2,20 m. 2 sashes. Laminated glass 3+3

Resistance to repeated openings and closings

Test carried out according to norm EN 1191:2000

500.000 cycles

Test on door reference 0,935 x 2,10 m. 1 sash

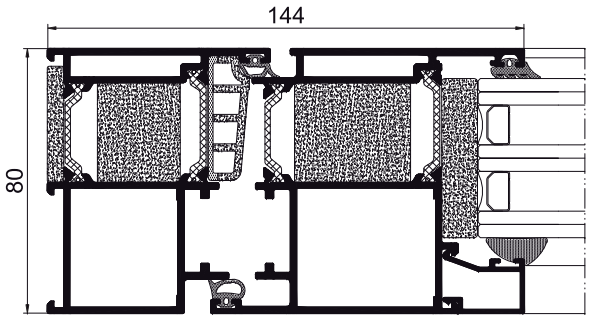
Sections

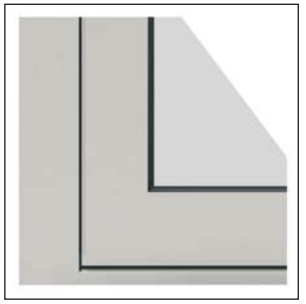
Frame 80 mm
Sash 80 mm

Profile thickness

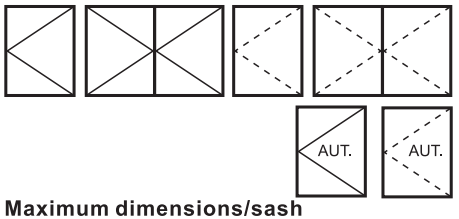
Door 2,0 mm.

Polyamide strip length 34 mm.





Opening possibilities



Open in: practicable 1 & 2 sashes.

Open Out: practicable 1 & 2 sashes.

Automatic opening: internal and external hinged single sash

Maximum dimensions/sash

Width (L) = 1.800 mm.
Height (H) = 3.000 mm.

Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

220 Kg.
120 Kg.(hidden hinges)

Millennium 70 Plus Door System with thermal break

Coplanar door entry system with straight 70 mm and thermally broken for commercial premises and buildings.

With a transmission value from only 0.9 W/m²K, it reaches unbeatable thermal features and its great glazing capacity guarantees a máximum accoustic insulation.

Possibility of **high resistance hinges** (face fix or re-inforced in to the channel) capable of supporting up to 220 kgs in weight per sash.

Possibility of **hidden hinges** with máximum dimensions and weight per sash of 2700 mm in height, 1500 mm in width and 120 kgs. and with a máximum sash opening of 100°.

It presents solutions of finishing to the floor and compatible meeting styles with our actual systems.

It is valid as a configuration for an emergency exit with anti-panic devices according to EN 179 & EN 1125 norms.

There is also the option of incorporating an automatic mechanism or its motorization that allows automatic hinged openings.

Millennium Plus 70 Door System with thermal break

Transmittance

Uw from 0.9 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 54 mm.

Maximum accoustic insulation **Rw=38 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability (EN 12207:2000): **Class 4**

Water tightness (EN 12208:2000): **Class 6A**

Wind resistance (EN 12210:2000): **Class C4**

Door test reference 1,20 x 2,30 m. 1 sash

Resistance to mild impact

Test carried out according to norm EN 13049:2003

CLASS 5 (max)

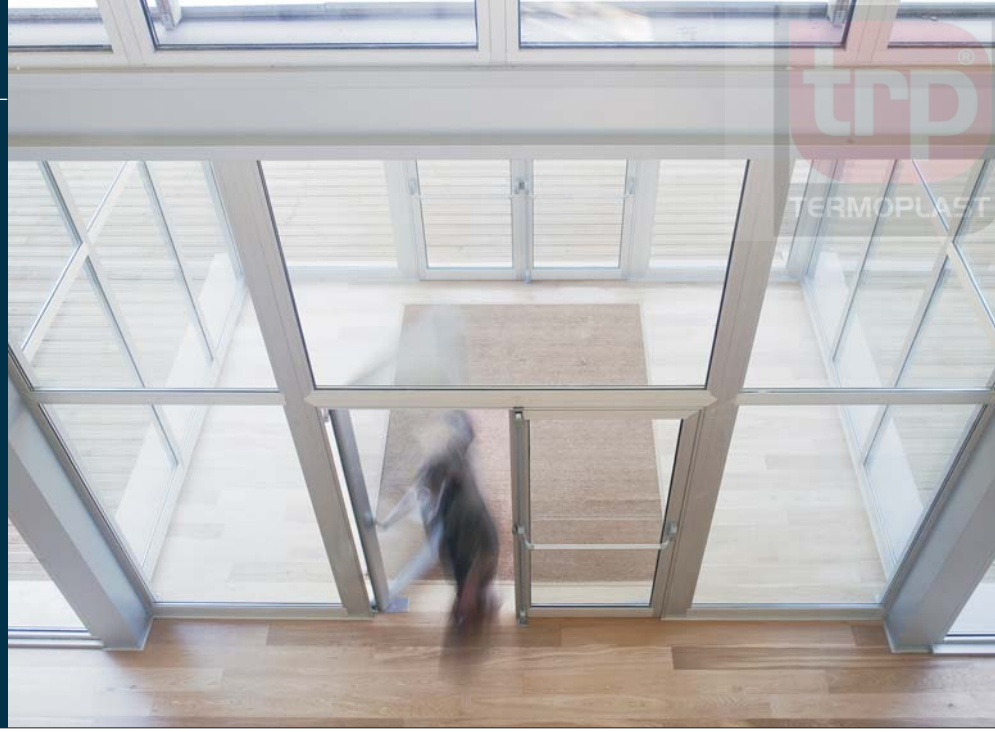
Test on door reference 1,80 x 2,20 m. 2 sashes. Laminated glass 3+3

Resistance to repeated openings and closings

Test carried out according to norm EN 1191:2000

1.000.000 cycles

Test on door reference 2,10 x 2,20 m. 1 sash



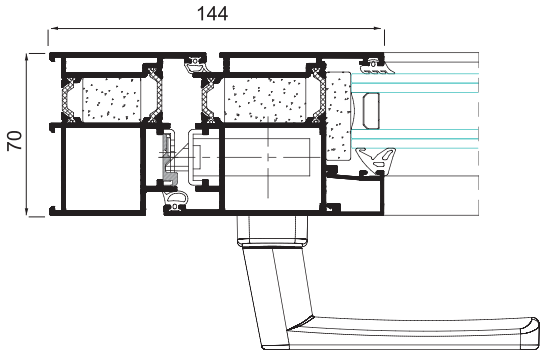
Sections

Frame 70 mm.
Sash 70 mm.

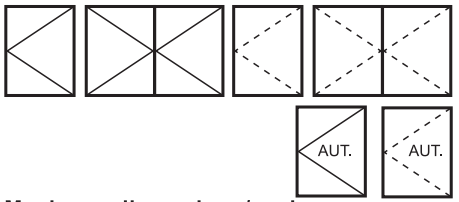
Profile thickness

Door 2,0 mm.

Polyamide strip length 24 mm.



Opening possibilities



Open in: practicable 1 & 2 sashes.

Open Out: practicable 1 & 2 sashes.

Automatic opening: internal and external hinged single sash

Maximum dimensions/sash

Width (L) = 1.800 mm.
Height (H) = 3.000 mm.

Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

220 Kg.
120 Kg.(hidden hinges)

Cor-70 C16 ST System with thermal break

Hinged system with 16 or 70 mm depth which allows the optimization of the job and economizing fabrication time of each window, making possible to assemble the hardware of the sash in just 5 minutes.

It counts with a U value from 0.9 W/m^{2}K achieved due to the perfect combination between aluminium profiles, tubular polyamides of 35 mm, tightness tubular gaskets made of E.P.D.M. and a polyolefin foam system which improve its thermal performance.

Its great glazing capacity of 55 mm provides this system of excellent thermal and acoustic values, allowing to place glasses with large thickness.

Cor-70 C16 ST System with thermal break

Transmittance

Uw from 0,9 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 55 mm.

Maximum accoustic insulation **Rw=46 dBA**

Finishes

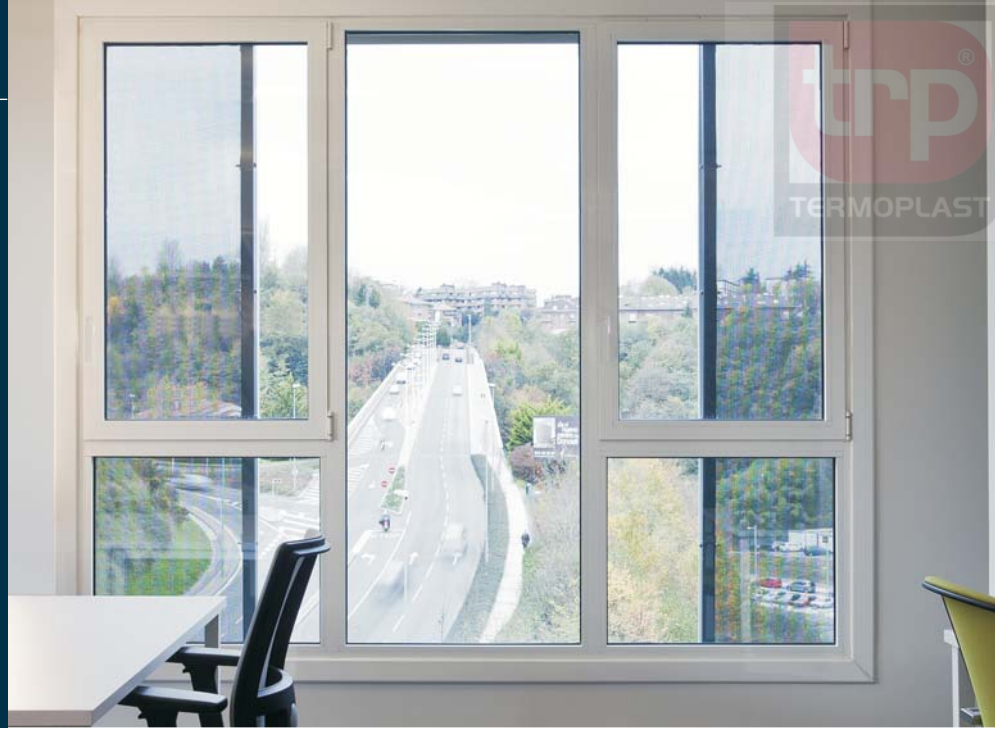
Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class E1500

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,23 x 1,48 m. 2 sashes



Sections

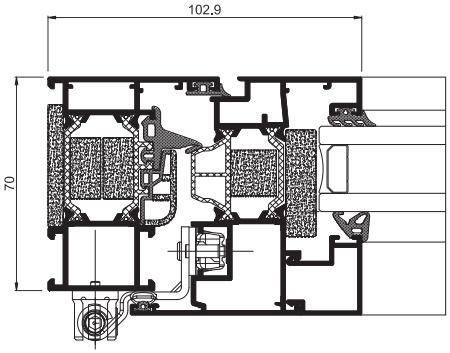
Frame 70 mm.
Sash 78 mm.

Profile thickness

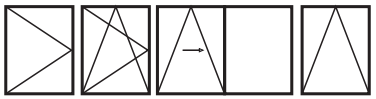
Window 1,5 mm.

Polyamide strip length

Frame 35 mm. Sash 30 mm.



Opening possibilities



Open in: practicable, turn-tilt, parallel tilt, hinged.

Maximum dimensions/sash	Maximum weight/sash
Width (L) = 1.500 mm. Height (H) = 2.600 mm.	120 Kg.

Please consult regarding maximum weight and dimensions according to types

Cor-2000 System

Cor-2000 System

Transmittance

Uw from 1,8 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 30 mm.

Maximum accoustic insulation **Rw=39 dBA**

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class 9A

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,20 x 1,18 m. 2 sashes

Possibility of straight or curved sashes and beads

Possibility of incorporating hardware with concealed hinges.

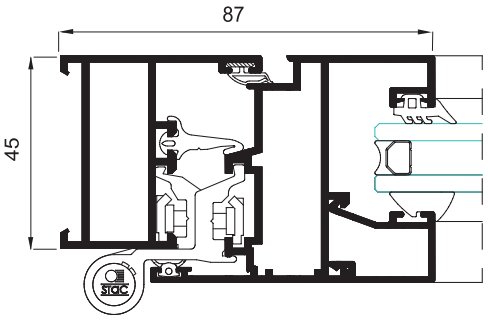
Possibility of incorporating security hardware - Evo Security.

Sections

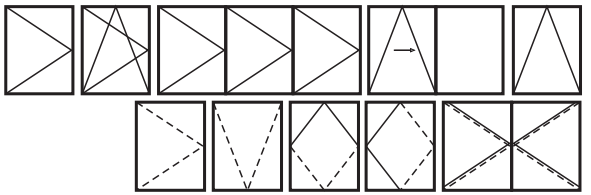
Frame 45 mm.
Sash 53 mm.

Profile thickness

Window 1,5 mm.
Door 1,7 mm



Opening possibilities



Open in: practicable, turn-tilt, folding, parallel tilt, hinged.

Open out: practicable, projecting-sliding, pivoting on horizontal or vertical axis, swing opening

Maximum dimensions/sash

Width (L) = 1.500 mm.
Height (H) = 2.400 mm.

Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

120 Kg.

Cor-2300 System

Cor-2300 System

Transmittance

Uw from 2,0 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 26 mm.

Maximum accoustic insulation **Rw=39 dBA**

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class 9A

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,105 x 1,210 m. 2 sashes

Possibility of straight or curved sashes and beads

Possibility of incorporating hardware with concealed hinges.

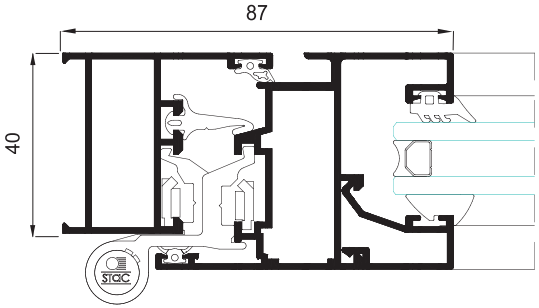
Possibility of incorporating security hardware - Evo Security.

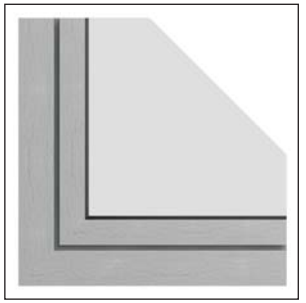
Sections

Frame 40 mm.
Sash 48 mm.

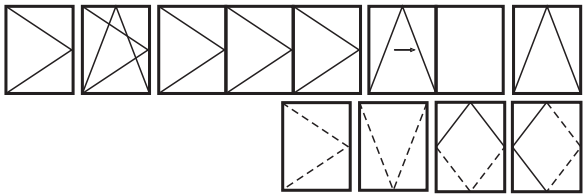
Profile thickness

Window 1,3 mm.
Door 1,4 mm





Opening possibilities



Open in: practicable, turn-tilt, folding, parallel tilt, hinged.

Open out: practicable, projecting-sliding, pivoting on horizontal or vertical axis

Maximum dimensions/sash

Width (L) = 1.500 mm.
Height (H) = 2.400 mm.

Maximum weight/sash

120 Kg.

Please consult regarding maximum weight and dimensions according to types

Millennium 2000 Door System

45 mm coplanar door system for commercial premises and buildings.

Available in 2 versions:

- Millenium 2000 door: with face fix hinges and 2 or 3 high resistance pins capable of supporting up to 180 kg. per sash.

-Millenium 2000 automatic door: Allows doors to be made for automatic opening sliders. This new solution that optimises the stay spaces, has been specifically designed to resolve entrances with high transit (offices, shopping centres, hospitals…) as it guarantees good pedestrian circulation as well as security in emergency situations.

This automation for a slider also gives the option of using minimal seen section profiles.

Possibility of 1 or 2 sashes, with or without fixed lights, presenting the double option of a motor in order to generate the opening: one at 12 cm. high and another being minimalist at only 7 cm high.

There is also the option of incorporating an automatic mechanism or its motorization that allows automatic hinged openings.

Millennium 2000 Door System

Transmittance

Uw from 2,3 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 30 mm.

Maximum accoustic insulation **Rw=38 dBA**

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Resistance to mild impact

Test carried out according to norm EN 13049:2003

CLASS 5 (max)

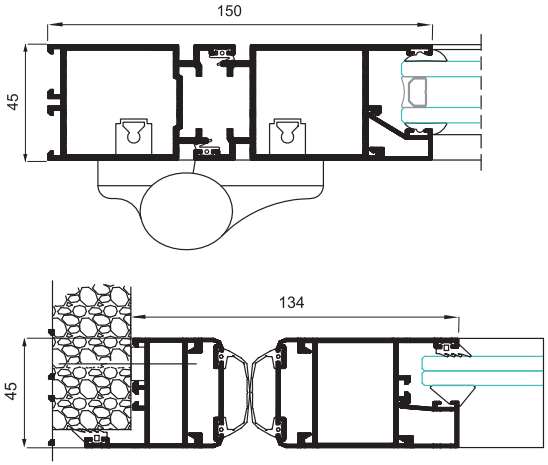
Test on door reference 1,80 x 2,20 m. 2 sashes
Laminated glass 3+3

Sections

Frame 45 mm.
Sash 45 mm.

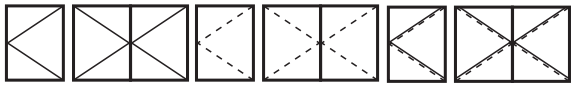
Profile thickness

Door 2,0 mm.



Automatic version

Opening possibilities



Open in: 1 & 2 sashes.
Open out: 1 & 2 sashes.
Swing opening: 1 & 2 sashes.

Automatic opening:
- sliding of 1 & 2 sashes.
- practicable in and out of 1 sash.

Maximum dimensions/sash

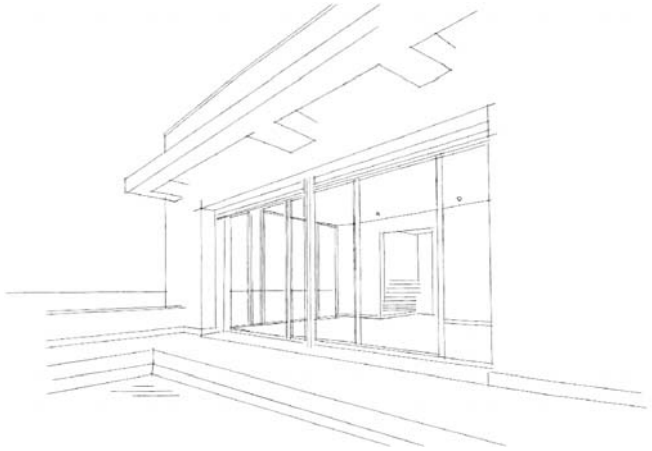
Width (L) = 1.450 mm.
Height (H) = 3.000 mm.
Please consult regarding maximum weight and dimensions according to types

Maximum weight/sash

190 Kg.
120 Kg. (automatic version)

BI-FOLD SYSTEM

74 **Bi-Fold System**

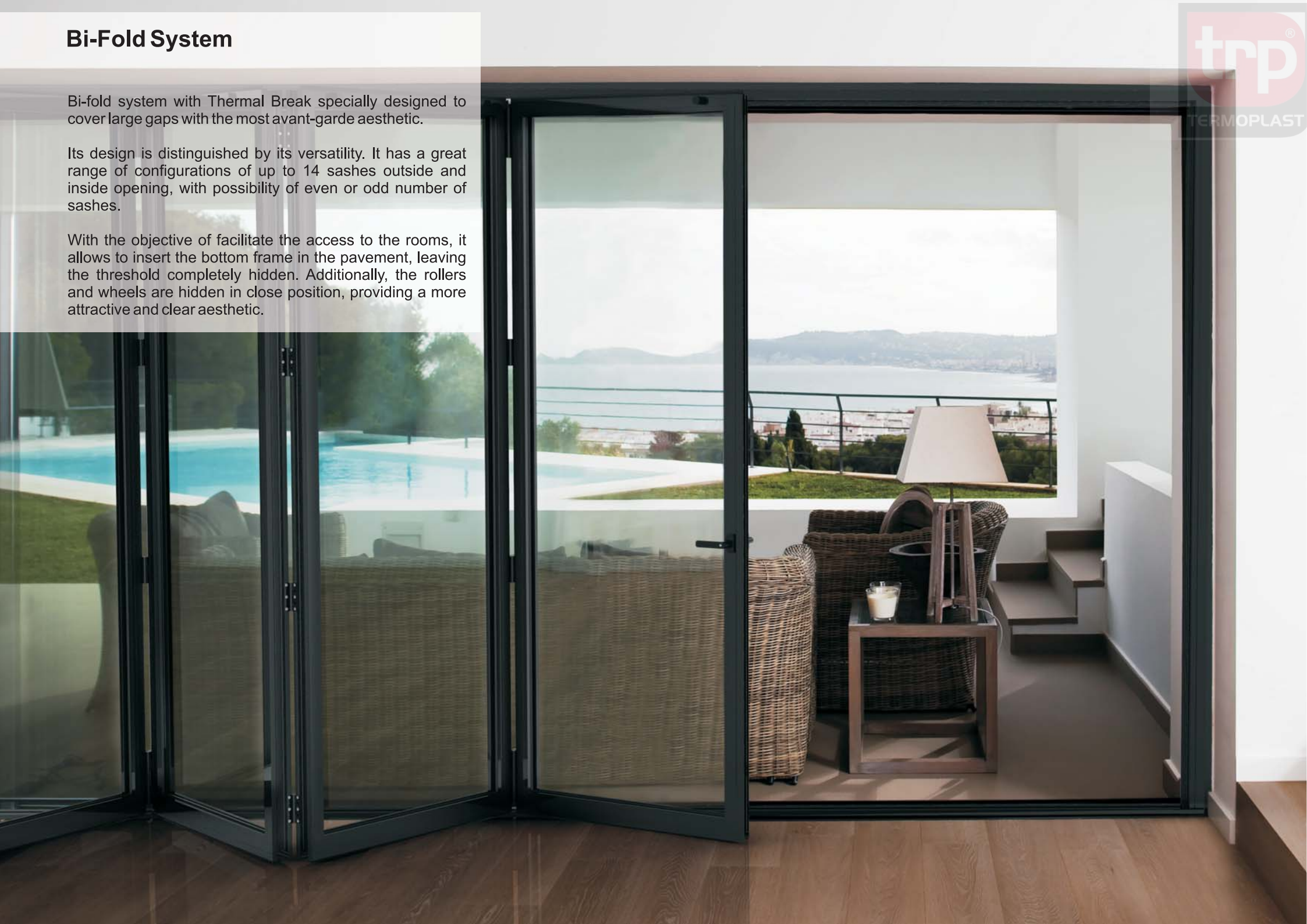


Bi-Fold System

Bi-fold system with Thermal Break specially designed to cover large gaps with the most avant-garde aesthetic.

Its design is distinguished by its versatility. It has a great range of configurations of up to 14 sashes outside and inside opening, with possibility of even or odd number of sashes.

With the objective of facilitate the access to the rooms, it allows to insert the bottom frame in the pavement, leaving the threshold completely hidden. Additionally, the rollers and wheels are hidden in close position, providing a more attractive and clear aesthetic.



Bi-Fold System

Transmittance

Uw from 1,5 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 34 mm.

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class 9A

Wind resistance
(EN 12210:2000): Class A3
Reference test 2.70 x 2.53 m. 3 sashes

Security Test
(PAS 24:2012): APT
Reference test 2701 x 2517 mm. 3 sashes. Configuration 330

Sections

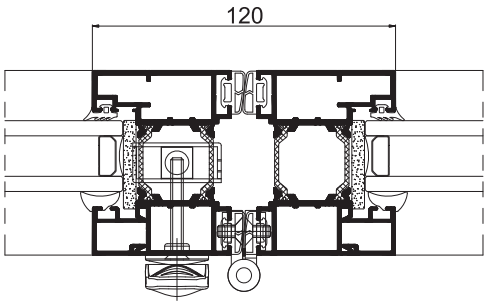
Frame 73 mm.
Sash 73 mm.

Profile thickness

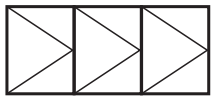
Door 1,8 mm.

Polyamide strip length

Frame 20 mm. Sash 30 mm.



Opening possibilities



Opening: Folding up to 14 sashes.

Maximum dimensions/sash

Width (L) = 1.200 mm.
Height (H) = 3.300 mm.

Maximum weight/sash

120 Kg.

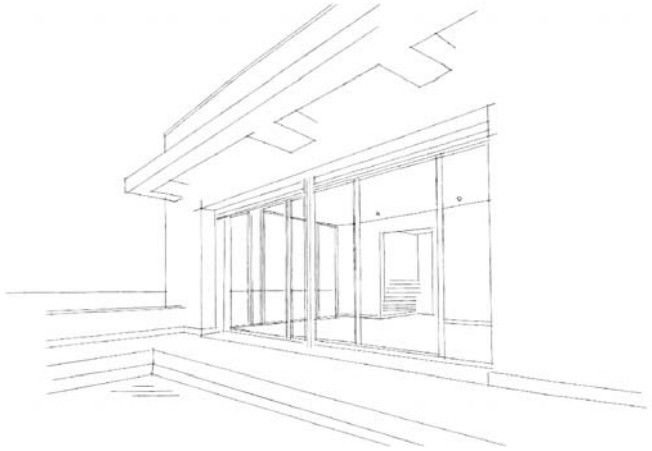
Please consult regarding maximum weight and dimensions for other opening types

SLIDING

WINDOW AND DOOR SYSTEMS

With thermal break

Without thermal break



Cor-Vision Plus Sliding System with thermal break

Minimalistic sliding system specially suitable for large dimensions, which allows to have the maximum luminosity with the minimum visible section of aluminium, and makes possible to cover great openings with a glass surface of 94%.

Its extraordinary glazing capacity allows to place glasses of up to 54 mm thickness which guarantees the best acoustic and thermal performance in a system with these characteristics.

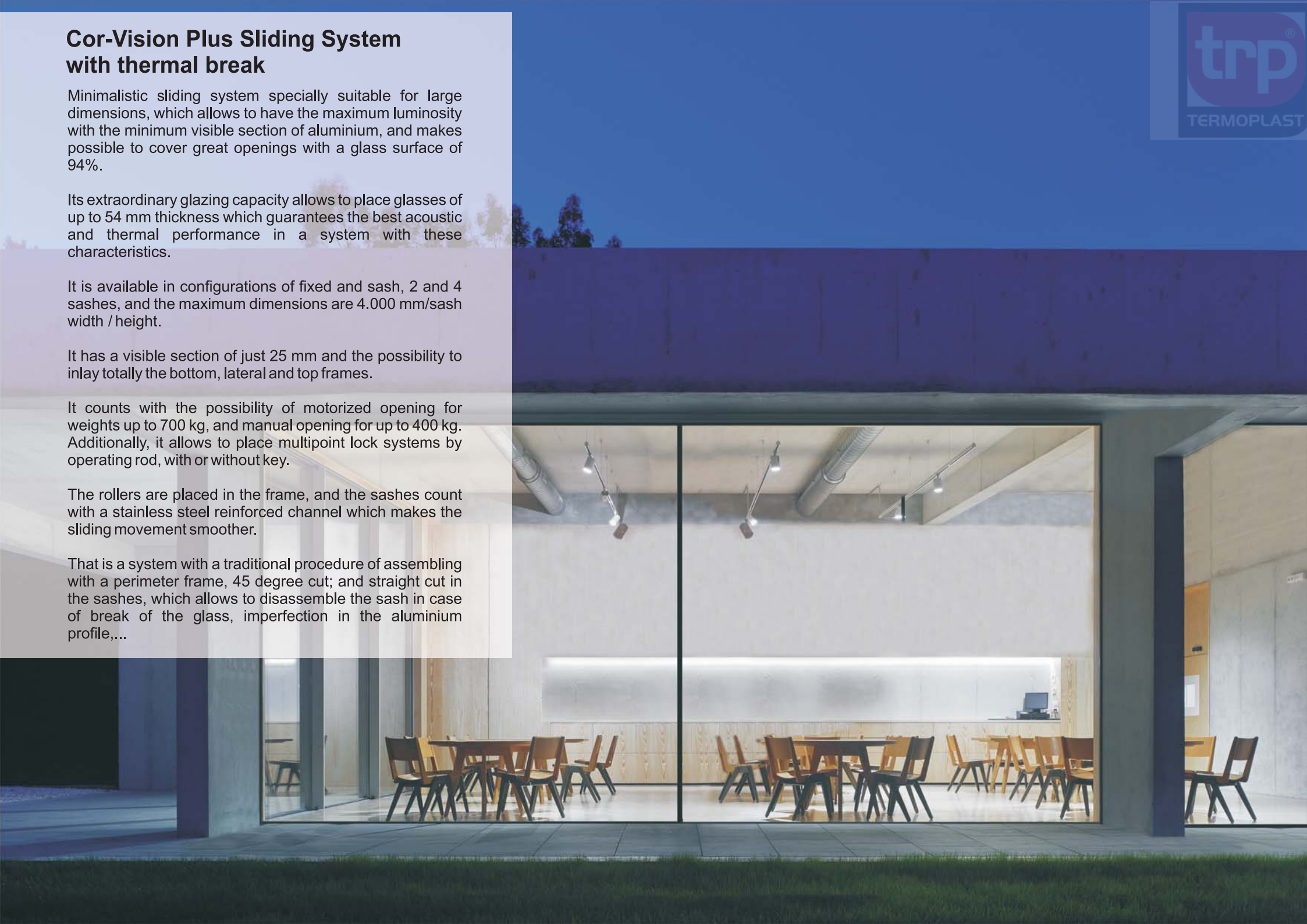
It is available in configurations of fixed and sash, 2 and 4 sashes, and the maximum dimensions are 4.000 mm/sash width / height.

It has a visible section of just 25 mm and the possibility to inlay totally the bottom, lateral and top frames.

It counts with the possibility of motorized opening for weights up to 700 kg, and manual opening for up to 400 kg. Additionally, it allows to place multipoint lock systems by operating rod, with or without key.

The rollers are placed in the frame, and the sashes count with a stainless steel reinforced channel which makes the sliding movement smoother.

That is a system with a traditional procedure of assembling with a perimeter frame, 45 degree cut; and straight cut in the sashes, which allows to disassemble the sash in case of break of the glass, imperfection in the aluminium profile,...



Cor-Vision Plus Sliding System with thermal break

Transmittance

Uw from 0,9 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 54 mm.

Maximum accoustic insulation **Rw=43 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

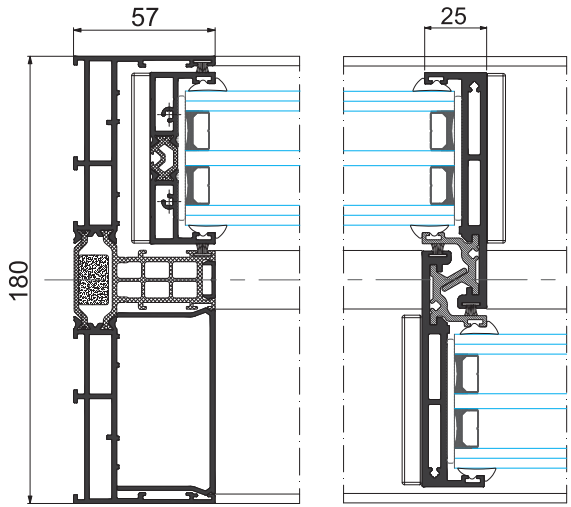
Sections

Frame 180 mm.
Sash 69 mm.

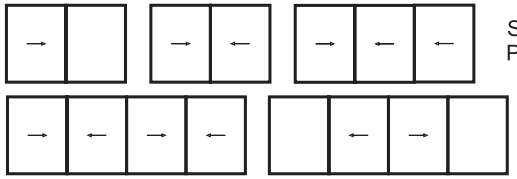
Profile thickness

Door 2,0 mm.

Polyamide strip length from 18 mm. to 40 mm.



Opening possibilities



Sliding of 2, 3 & 4 sashes.
Possibility of 1 rail (1 sash+1 fixed light).

Maximum dimensions/sash

Width (L) = 4.000 mm.
Height (H) = 4.000 mm.
Glass surface ≤ 14 m²

Please consult regarding maximum weight and dimensions for other opening types

Maximum weight/sash

400 Kg Manual
700 Kg Motorized

Cor-Vision Sliding System with thermal break

An avant-garde design of a thermally broken sliding system that permits maximum luminosity with the minimum amount of seen aluminium profile section. An elegance in design that looks to cover great light spaces with minimum frame fragments from 8% of the total surface. It shows seen centre junction sections of only 20 mm, in the lateral junction at 77 mm and the top/bottom junctions at 57 mm.

Possibility of inlaying the bottom, top and lateral frames.

Possibility of sash meetings at a 90° corner without a mullion.

In its monochannel version, comprising of fixed and sash, the hidden rail is found in the fixed area.

It incorporates the new type of **GALANDAGE** that is designed to allow the possibility of an integral opening in the space to completely conceal the sashes in the building curtain wall chamber. In this way a 100% opening surface can be achieved.

This **GALANDAGE** option is made up of a single and dual channel rail which allows for a single or double sash concealed balcony doors.

This presents a new type of frame for 1, 2 or 3 rails that allows the incorporation of a stainless steel rail that affords increased sliding smoothness, an increase in loading support for the bearings (up to 320 kg/sash) and increased durability.

A system with traditional fitting procedures with perimetral frame and sashes that allows the sash to be dismantled in case of glass breakage, damage to the aluminium profile etc. It incorporates a rod operated multipoint lock.

Cor-Vision Sliding System with thermal break

Transmittance

Uw from 1,3 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 30 mm.

Maximum accoustic insulation **Rw=41 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class 7A

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,23 x 1,55 m. 1 sash + 1 fixed light

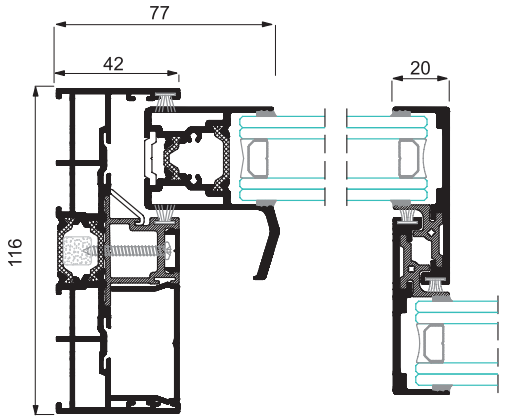
Sections

Frame 116 mm.
182 mm. 3 rails
Sash 37 mm.

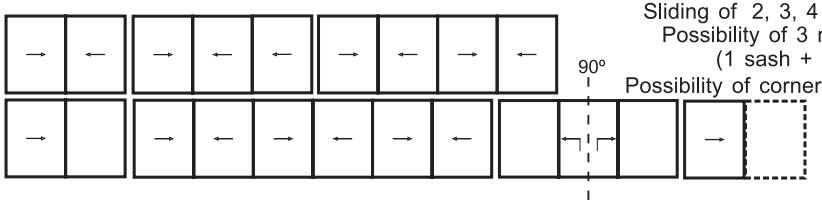
Profile thickness

Door 1,7 mm.

Polyamide strip length from 16 mm. to 24 mm.



Opening possibilities



Sliding of 2, 3, 4 & 6 sashes.
Possibility of 3 rails & 1 rail.
(1 sash + 1 fixed light)
Possibility of corner sash at 90º
without
mullions.
Galandage
1 & 2 sashes

Maximum dimensions/sash

Width (L) = 2.200 mm.
Height (H) = 3.000 mm.

Maximum weight/sash

320 Kg.

Please consult regarding maximum weight and dimensions for other opening types

4600 Lift and Slide HI System (High Insulation) with thermal break

A new lift and slide door system that exhibits the best thermal insulation in all the sliding range with unbeatable transmission values (Uw) from 0.9 (W/m^2K)

This maximum energy efficiency is possible thanks to the perfect combination of a thermal breaking zone with 35 & 24 mm polyamide strips and cross-linked polyethylene as well as the possibility of large glazing allowed by the sashes and up to 55 mm thick glass which allows for the option to install compositions of double and triple chamber glass in order to guarantee its exceptional thermal insulation and particularly this system will improve noise protection.

The possibility of large sash dimensions makes this system ideal for enclosing large spaces and guaranteeing internal luminosity without foregoing the maximum thermal and acoustic performances.

This slider bases its workings on a system where the sashes are mounted on a mechanism that allows for it to be elevated when opened and to drop down when closed in such a way that the closed door rests over lower and lateral longitudinal weather gaskets and can be fixed in whatever position and in this way improving its weather tightness and acoustic insulation. It is a robust system in appearance but light at the same time with an ultra smooth opening action and perfect sash sliding over a stainless steel rail that avoids wear and tear.

It offers a modern design with a straight style both in sashes and beads.

4600 Lift and Slide HI System (High Insulation) with thermal break

Transmittance

Uw from 0.9 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 55 mm.

Maximum accoustic insulation **Rw=43 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 4

Water tightness
(EN 12208:2000): Class 9A

Wind resistance
(EN 12210:2000): Class C5

Reference test 4,0 x 2,4 m. 2 sashes

Sections

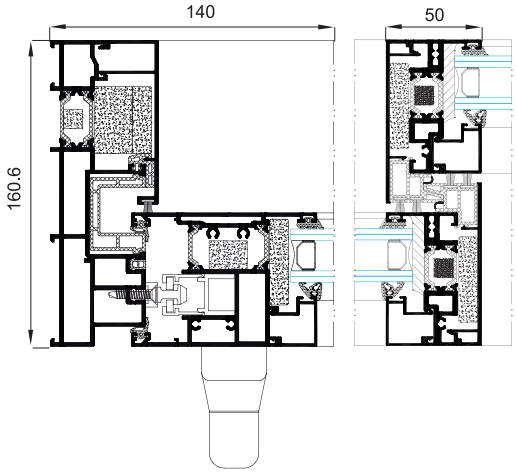
Frame 160.6 mm.
251mm. 3 rails
Sash 70 mm.

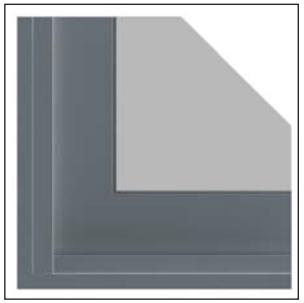
Profile thickness

Door 2,0 mm.

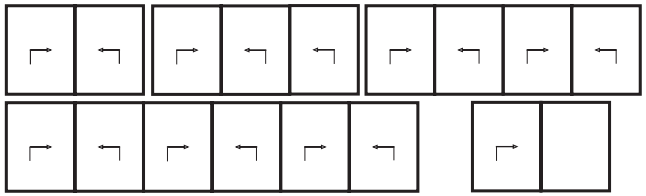
Polyamide strip length

Frame 35 mm. Sash 24 mm.





Opening possibilities



Sliding of 2, 3, 4 & 6 sashes.
Possibility of 3 rails & 1 rail.
(1 sash + 1 fixed light)

Maximum dimensions/sash

Width (L) = 3.300 mm.
Height (H) = 3.300 mm.

Maximum weight/sash

400 Kg.

Please consult regarding maximum weight and dimensions for other opening types

4500 Lift and Slide System with thermal break

A perimetral sliding door system with thermal breaking and a bevelled or curved style both in sashes and beads.

There are two versions:

- 4500 lift and slide that bases its operation on a system in which the sashes are fitted with a mechanism that permits its own elevation whilst opening and descending when closing in such a way that the closed door rests over the top and bottom longitudinal water tightness gaskets allowing it to be fixed in whatever position.

Possibility of corner sash meeting at 90° without mullions.

In the fixed light and sash configuration, the rail in the fixed zone remains hidden.

- 4500 in line slider allows the sliders to be made economically in large dimensions.

It presents configurations of sash+fixed light, Fixed light+sash+fixed light, 2 sashes+2 fixed lights and 4 sashes.

The rail where the sashes slide along is made of stainless steel in order to avoid wear and tear.

4500 Lift and Slide System with thermal break

Transmittance

Uw from 1,5 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 30 mm.

Maximum accoustic insulation **Rw=42 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 3

Water tightness
(EN 12208:2000): Class 8A

Wind resistance
(EN 12210:2000): Class C4
Reference test 1,85 x 2,05 m. 1 sash + 1 fixed light

Sections

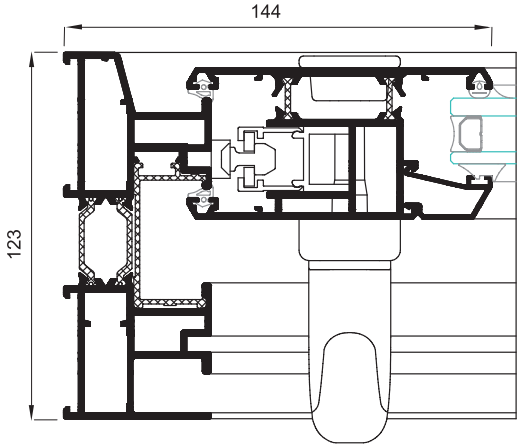
Frame 100/123/127 mm.
185 mm. 3 rails
Sash 51 mm.

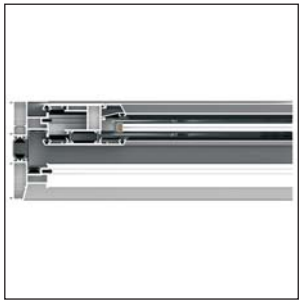
Profile thickness

Door 2,0 mm.

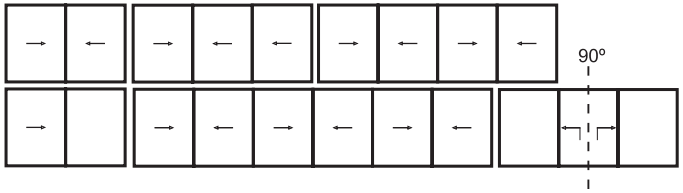
Polyamide strip length

-Lift version of 24 & 14.6 mm.
-In-line version of 30 & 14.6 mm.





Opening possibilities



Sliding of 2, 3, 4 & 6 sashes.
Possibility of 3 rails.
Possibility of 1 rail.
(1 sash + 1 fixed light)
Possibility of corner sash at 90º without mullions.

Maximum dimensions/sash

Width (L) = 3.300 mm.
Height (H) = 2.900 mm.
Lift version

Width (L) = 2.500 mm.
Height (H) = 2.600 mm.
In-line version

Maximum weight/sash

400 Kg.(Lift version)
280 Kg.(In-line version)

Please consult regarding maximum weight and dimensions for other opening types

4700 Sliding System with thermal break

System for sliding window and doors with straight aesthetic, which counts with a central minimalistic interlock of just 47 mm of visible section.

It allows maximising the glazing capacity up to 34 mm increasing the acoustic and thermal performance.

Its sashes of up to 280 kg weight allow a maximum dimensions of 2500 (W) x 3000 (H) mm.

4700 Sliding System with thermal break

Transmittance

Uw from 1,1 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 34 mm.

Maximum accoustic insulation **Rw=40 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 3

Water tightness
(EN 12208:2000): Class 7A

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,80 x 2,20 m. 2 sashes

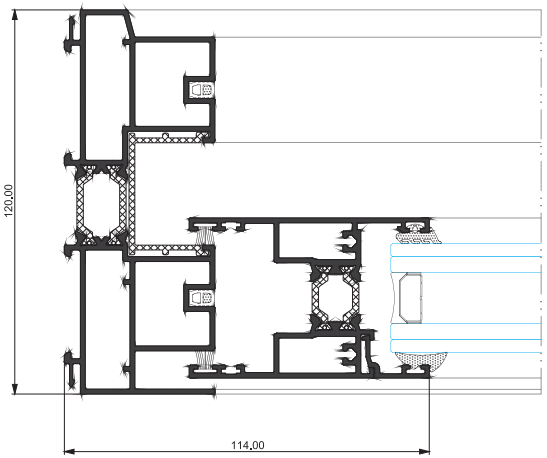
Sections

Frame 120 / 115 mm.
Sash 50 mm.

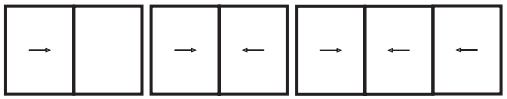
Profile thickness

Balcony 1,5 mm.

Polyamide strip length 20 and 25 mm.



Opening possibilities



Slider of 2 & 3 sashes.
Possibility of 1 rail (1 sash+1 fixed light)

Maximum dimensions/sash

Width (L) = 2.500 mm.
Height (H) = 3.000 mm.

Maximum weight/sash

280 Kg.

Please consult regarding maximum weight and dimensions for other opening types

4200 Sliding System with thermal break

A versatile system with multiple perimetral frames and the possibility of head or perimetral sashes.

This presents a stylish option with curved or straight sashes. In its version of straight head sashes, the **GALANDAGE** 4200 Slider solution is included. It is designed to allow the possibility of an integral opening in the space to totally hide the sashes in the building's curtain wall chamber. This achieves a 100% opening surface.

The **GALANDAGE** option allows a single rail and dual rail frame allowing for balcony systems with 1, 2 & 4 hidden sashes.

It also allows for the incorporation of one sash in parallel hidden from the Tamiz solar protection system.

4200 Sliding System with thermal break

Transmittance

Uw from 1,5 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 26 mm.

Maximum accoustic insulation **Rw=39 dBA**

Finishes

Possibility of dual colour
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 3

Water tightness
(EN 12208:2000): Class 7A

Wind resistance
(EN 12210:2000): Class C5
Reference test 1,20 x 1,20 m. 2 sashes

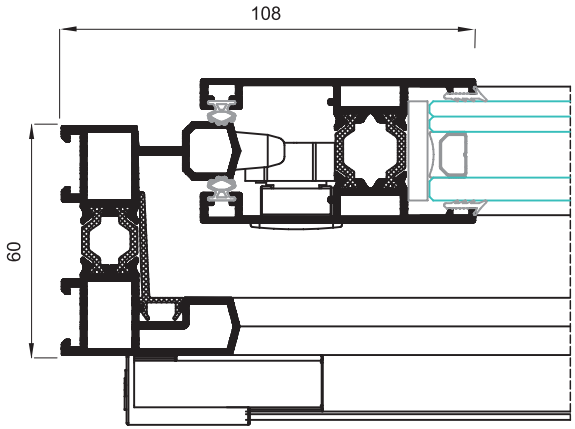
Sections

Frame 60/65/77/80 mm.
106/126 mm. 3 rails
Sash 33 & 37 mm.

Profile thickness

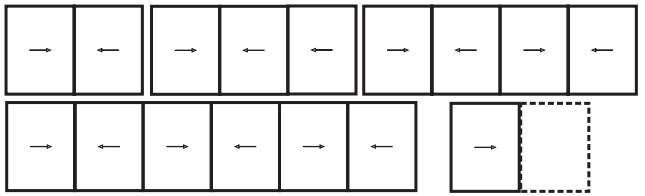
Window 1,5 mm.

Polyamide strip length from 14,6 to 20 mm.



4200 Sliding Galandage + Tamiz

Opening possibilities



Slider of 2, 3, 4 & 6 sashes.
Possibility of 3 rails.
Possibility of single or dual rail **galandage** in 1, 2 & 4 sashes.

Maximum dimensions/sash

Width (L) = 2.200 mm.
Height (H) = 2.600 mm.

Maximum weight/sash

100 Kg. (Perimetral sash)
200 Kg. (Head sash)

Please consult regarding maximum weight and dimensions for other opening types

2000 Perimetral Sliding System

A perimetral sliding system with the possibility of straight, bevelled and curved sashes.

2000 Perimetral Sliding System

Transmittance

Uw from 2.9 (W/m²K)

Please consult typology, dimensions and glass

Accoustic insulation

Maximum glazing: 17 mm.

Maximum accoustic insulation **Rw=33 dBA**

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Categories achieved at test centre

Air permeability
(EN 12207:2000): Class 3

Water tightness
(EN 12208:2000): Class 8A

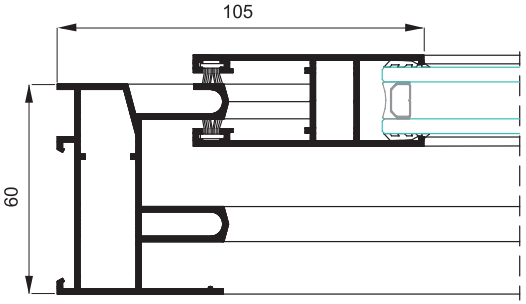
Wind resistance
(EN 12210:2000): Class C5
Reference test 1,20 x 1,20 m. 2 sashes

Sections

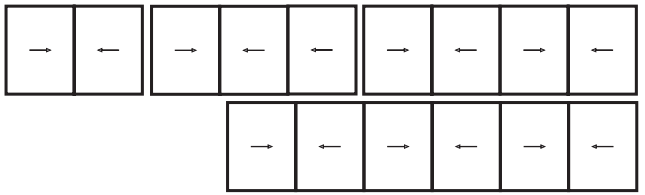
Frame 40 mm. 1 rail
40, 45, 60 & 70 mm. 2 rails
80 mm. 3 rails
Sashes 26 mm. (straight)
26 mm. (chamfered)
27,5 mm. (curve)

Profile thickness

Window 1,5 mm.



Opening possibilities



Sliding of 2, 3, 4 & 6 sashes.
Possibility of 3 rails.
Possibility of 1 rail.

Maximum dimensions/sash

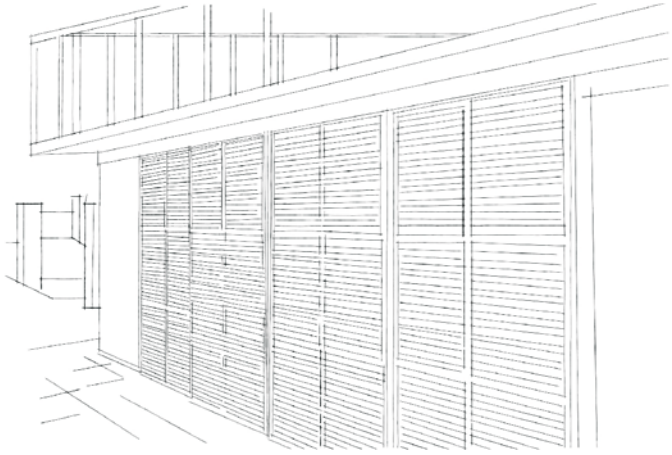
Width (L) = 1.600 mm.
Height (H) = 2.600 mm.

Maximum weight/sash

100 Kg.

Please consult regarding maximum weight and dimensions for other opening types

SOLAR PROTECTION
SYSTEMS



Tamiz System

A counter-window system with fixed or adjustable louvres.

Tamiz System

Transmittance

Thermal resistance of the counterwindow and the thermal chamber ΔR= 0,08 (m^2K/W)

Uw (W/m²K)	Uws (W/m²K)
0.8	0.75
1.0	0.93
1.2	1.09
1.4	1.26
1.6	1.42
1.8	1.57
2.0	1.72
2.2	1.87
2.4	2.01
2.6	2.15
2.8	2.29
3.0	2.42
3.2	2.55

Uw window transmittance
Uws transmittance of the window-counterwindow assembly

Calculations according to EN ISO 10077-1:2000

Categories achieved at test centre

Wind loading resistance
(UNE 13659:2004): CLASS 5

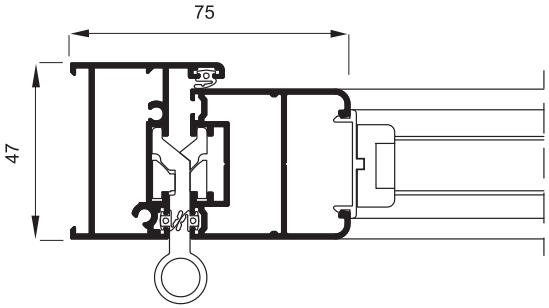
Test reference 1,50 x 1,50 m. 2 sashes

Finishes
Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

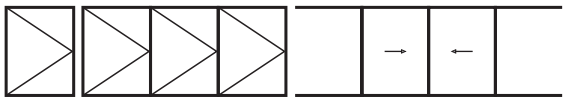
Closing possibilities:
Closing with fixed or adjustable louvres
Opaque closing (panel sandwich)
Glazed closing

Sections
Frame 47 mm.
Sash 40 mm.

Profile thickness
Window 1,3 mm.
Door 1,5 mm.



Opening possibilities



Practicable 1, 2, 3 & 4 sashes
Folding
Slider

Maximum dimensions/sash

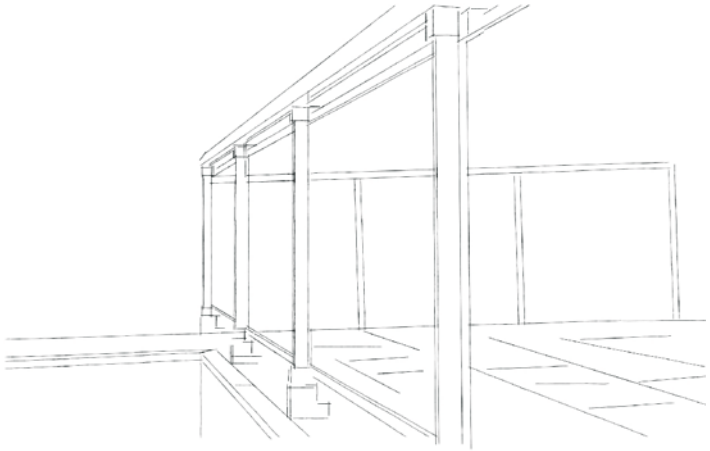
Width (L) =1.600 mm.
Height (H) = 2.500 mm.

Maximum weight/sash

65 Kg.

Please consult regarding maximum weight and dimensions for other opening types

BALUSTRADING
System



View Glass Balustrade

Minimalist balustrading system which combines the most trend setting esthetic with the highest demands in safety.

It consists of a system in "U" designed to lodge laminated safety glass and which can be fixed to wrought iron or to the edge of the iron work. It is possible the installation flush with the pavement.

It comes in two versions:

-**View Glass** which can resist a windload of 1,0 kN/m applied at 1.1 metres from its bottom part, therefore being suitable for its use in the following areas: A1, A2, B, C1, C2, C3, C4 and E, in accordance with Eurocode1.

-**View Glass Pro**, reinforced system which can resist a windload of 3,0 kN/m. This system, with a greater resistance, is suitable for use in the areas A, B, C, D and E of the Eurocode 1.

View Glass Balustrade

Possibilities

Assembly above slab
Assembly above slab flush
Assembly in front of the slab:
-Flush with the slab
-Flush with the pavement

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

Maximum height

1.100 mm.

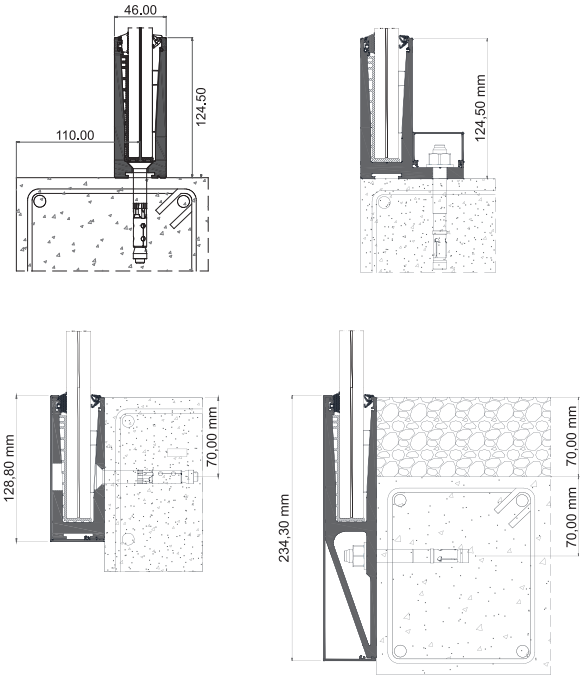
Tests according to UNE 85237:1991, UNE 85.238:1991 and UNE 85240:1990 norms, requirements established in Eurocode 1 according to EN 1991-1-1:2003 /AC: 2010

1 – Static horizontal test towards the exterior.
2 – Static horizontal test towards the interior.
3 – Dynamic test with mild object.
4 - Dynamic test with hard object.
5 – Verification of the specifications of the Eurocode according to the table 6.12 for categories of use of 3kN/m.

CLASSIFICATION ACCORDING TO UNE 85240:1990:
Class A-EXCELLENT

Reference test on the balustrading with extruded aluminum and glass, with top free edge bar at total height 1100mm. (H) x 1500mm. (L)

Reference test on the balustrading with extruded aluminum and glass, at total height 1100mm. (H) x 1500mm. (L)



VIEW GLASS PRO (reinforced version)

Glass

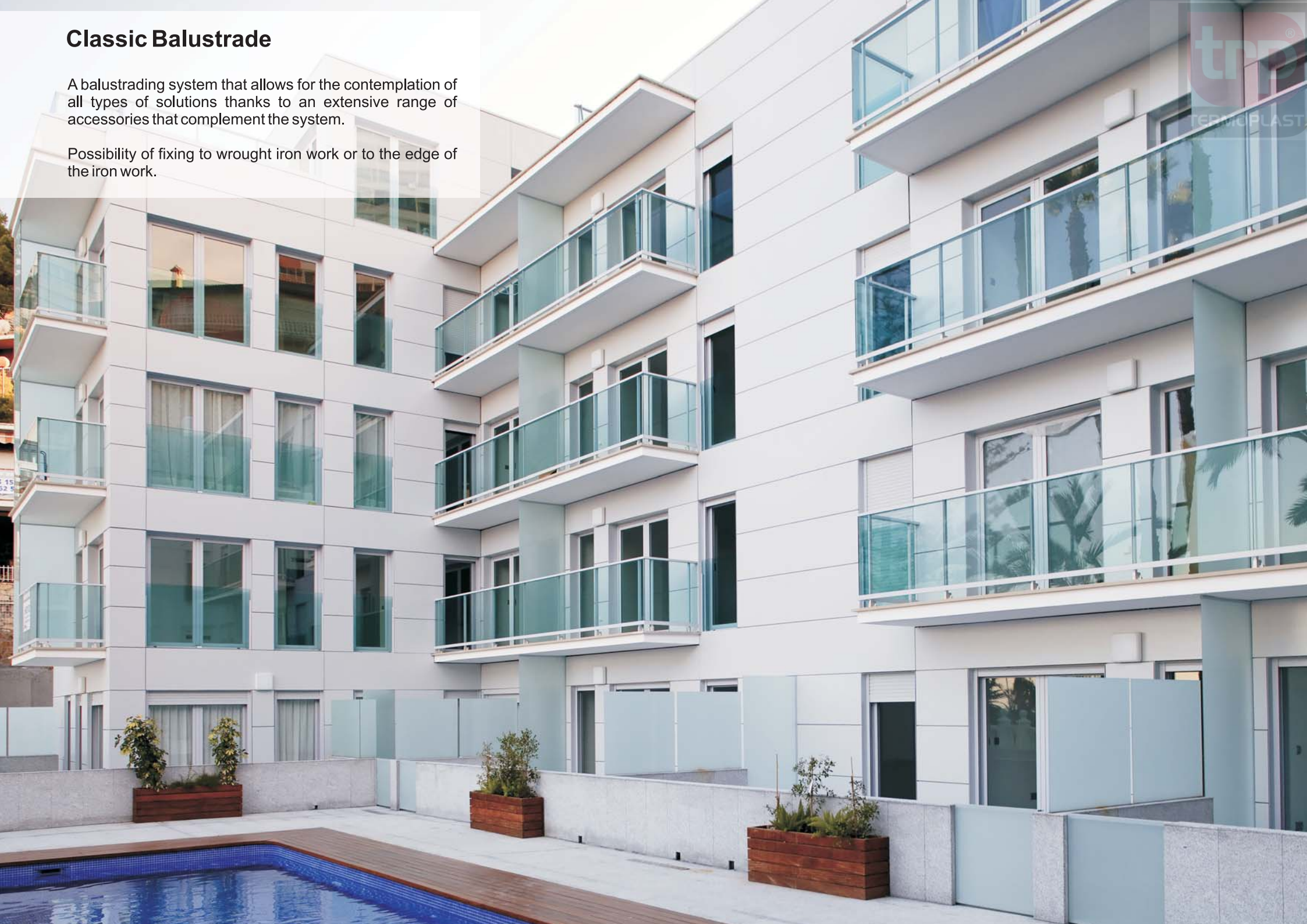
This balustrade system enables 12 glazing possibilities:
10, 8 or 6 mm double glass joined by up to 4 polyvinyl butyrals of 0.38 mm.
The use of tempered glass is recommended.

GLASS				
COMPOSITIONS				TYPE
10- 1.52 -10	10- 1.14 -10	10- 0.76 -10	10- 0.38 -10	LAMINATED
8- 1.52 -8	8- 1.14 -8	8- 0.76 -8	8- 0.38 -8	
6- 1.52 -6	6- 1.14 -6	6- 0.76 -6	6- 0.38 -6	

Classic Balustrade

A balustrading system that allows for the contemplation of all types of solutions thanks to an extensive range of accessories that complement the system.

Possibility of fixing to wrought iron work or to the edge of the iron work.



Classic Balustrade

Possibilities

- Glass Balustrading
- Glass Balustrading with free top edge
- Bar Balustrading
- Bar Balustrading with top edge

Handrail possibilities

- Square - 60 mm. width
- Circular - 66 mm diameter
- Elliptical - 80 mm. external perimeter

Finishes

Colour powder coating (RAL, mottled and rough)
Wood effect powder coating
Anti-bacterial powder coating
Anodized

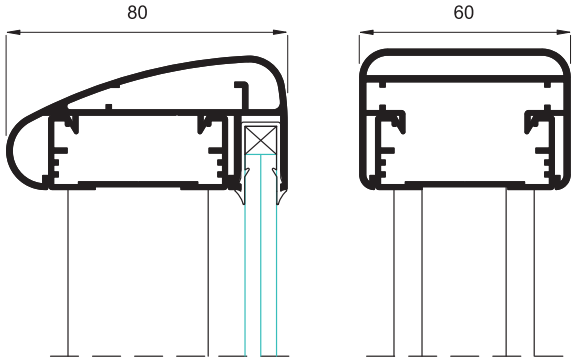
Tests according to EN 85.237-1991 norms EN 85.238-1991 & EN 85.240-1990

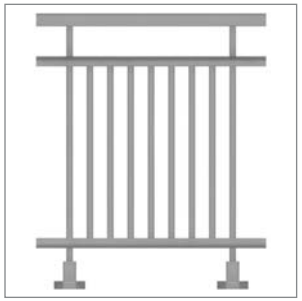
1-Static horizontal test towards the exterior
2-Static horizontal test towards the interior
3-Static vertical test
4-Dynamic test with mild object
5-Dynamic test with hard object
6-Security test

(EN 85.240:1990): Class A- EXCELLENT

Reference test on the balustrading with glass at total height 1.100 mm.(H) x 2.450 mm.(L) and 3 pilasters.

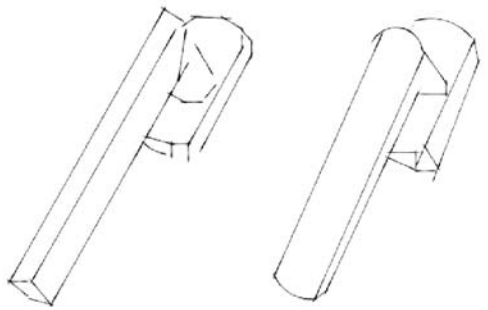
Reference test on the balustrading with top free edge bar of 1100 mm (H) x 2000 mm (L) and 3 pilasters





Maximum dimensions between pilasters	Minimum height
1.000 mm.	900 mm.

ACCESSORIES



WINDOW WITH HIDDEN HINGES

Accesories

CORTIZO has a complete range of accessories designed to respond to the most demanding and up to date architectural and interior design needs.

With a variety of basic minimalist aesthetics and with multiple finishes, they guarantee a perfect integration of accessory and profiles resulting in a configuration of a harmonious and modern enclosure.

As well as the standard accessories, there is also the possibility of integrating HARDWARE WITH HIDDEN HINGES in to the following systems:

COR 70 CC16 / COR 70 Hidden Sash CC16 / COR 60 CC16 / COR 80 Industrial / COR 70 Industrial / COR 70 Hidden Sash / COR 60 / COR 60 Hidden Sash / COR 3500 / COR 3000 / COR 2000 / COR 2300 / Millennium Plus Door

Additionally, many of the systems allow for the option of incorporating SECURITY HARDWARE , Evo Security:

COR 80 Industrial / COR 70 Industrial / COR 70 Hidden Sash / COR 60 / COR 60 Hidden Sash / COR 3500 / COR 3000 / COR 2000 / COR 2300

CORTIZO STAINLESS HANDLE

DESIGN AND STYLE

Window handle in stainless steel for practicable openings and turn/tilt of avant–garde design.

Perfect adaptability to the transmission box and multi-point lock. With a mínimum escutcheon design (66 x 31 x 10.5 mm), hidden screws and 7 mm spindle, this handle has the following dimensions: 158 mm long and 31 mm wide.

Materials: Handle and escutcheon made from stainless steel and rose with a nylon base.

Finishes:
- Stainless steel

CORTIZO HANDLE

DESIGN WITHOUT ESCUTCHEON

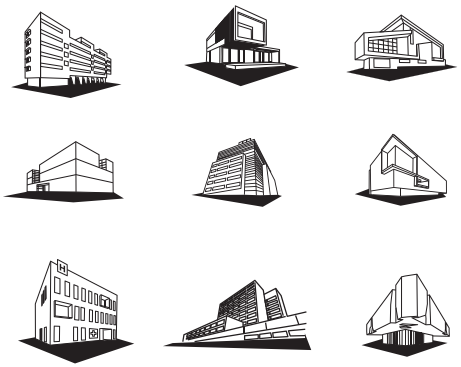
An aluminium handle for practicable openings and turn/tilts, and with its straight style and its almost complete abscence of an escutcheon, it converts in to an ideal accessory to integrate in to whatever Cortizo hinged window.

Perfect adaptability to the transmission box and the multi-point lock. With hidden screws and a 7 mm spindle, this handle has the following dimensions: 147.5 mm in length and 30.4 mm in width.

Finishes:
- Powder coated White/Black/Inox
- Powder coated Matt Silver/Bright silver
- RAL colour chart
- Special textured coatings
- Inox PVD
- Gold PVD

LANDMARK BUILDINGS

apartment buildings
family homes
hospitals
industrial / commercial
offices / administration
social / cultural
infrastructures
hotels
leisure / sport
education / investigation



apartment buildings

Galeras-Entrerríos building
Santiago de Compostela - A Coruña
Spain
Architect: Carbajo & Barrios

Navarino building
Nicosia
Cyprus
Architect: TOFARCO & Eraclis Papachristou Architects.

Apartament building
Pamplona (Navarra)
Spain
Architect: Tabuenca Saralegui

Joel Queiroz building
Recife
Brazil
Architect: Marco Antonio Borsoi

Specular penthouse
Murcia
Spain
Architect: Clavel Arquitectos

Lara Ríos House and atelier
Asturias
Spain
Architect: F451 Arquitectura

Family home
Sotogrande- Cádiz
Spain
Architect: Estudio A-Cero

V House
A Coruña
Spain
Architect: Dosis de Arquitectura

hospitals

Can Misses Hospital
Ibiza (Illes Balears)
Spain
Architect: Luis Vidal + Architects

Beatriz de Angelo Hospital
Loures
Portugal
Architecte: Saraiva & Associados
+ PINEARQ.

University Hospital of Álava
Álava
Spain
Architect: Gómez Puente
Arquitectos

Vigo Metropolitan Hospital
Vigo (Pontevedra)
Spain
Architect:Luis Vidal + Architects /
Jacobo Rodríguez-Losada /
Vicente Fernández-Couto

Shooping Centre Marineda City
A Coruña
Spain
Architect: Jaime Martínez Molina,
MMO Arquitectos, S.L.

Telleri de Txacoli wine cellar
Morga (Vizcaya)
Spain
Architect: Hertza Arkitektura
Bulegoa

Exhibition Pavillion
Puertollano (Ciudad Real)
Spain
Architect: Javier García Simal

Headquarters
Correo Gallego
Santiago de Compostela (A Coruña)
Spain
Architect: Pablo Costa Bujan

office / administration

Headquarters Bains de Mer
Monaco
Monaco
Architect: MM Concept

Lake Geneva Park
Laussane
Switzerland
Architect: CCHE

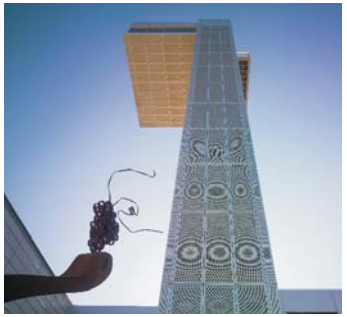
Headquarters Solidarność
Gdansk
Poland
Architect: Przedsiębiorstwo Projektowo-Wdrożeniowe FORT

Headquarters BBVA Bancomer
Mexico D.F.
Mexico
Architect: Som

Ortuella Community Centre
Ortuella (Vizcaya)
Spain
Architect: Aq4

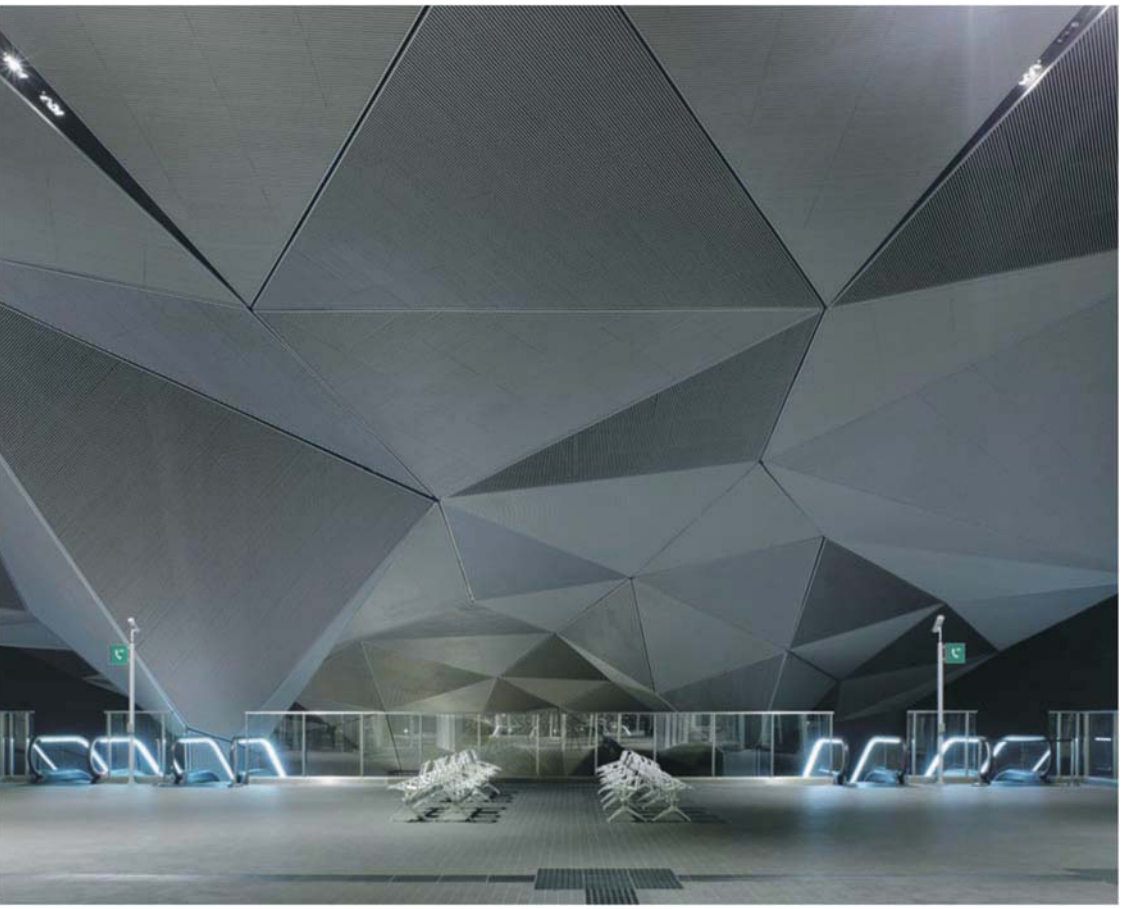
Social Services Centre
Coslada (Madrid)
Spain
Architect: Touza Arquitectos

Social Services Centre
Móstoles (Madrid)
Spain
Architect: Dosmasuno Arquitectos



Wine Tower
Socuéllanos (Ciudad Real)
Spain
Architect: Rodolfo Ucha Dolz

infrastructures



Gran Canaria Airport
Gran Canaria (Las Palmas)
Spain
Architect: Lamela + Richard Rogers Partnership

Prat - T1 Airport
Barcelona
Spain
Architect: Ricardo Bofill

Málaga Airport
Málaga
Spain
Architect: Vicente Padilla Gómez-Guillamón

Highspeed train station of Logroño
Logroño (La Rioja)
Spain
Architect: Ábalos + Sentkiewicz

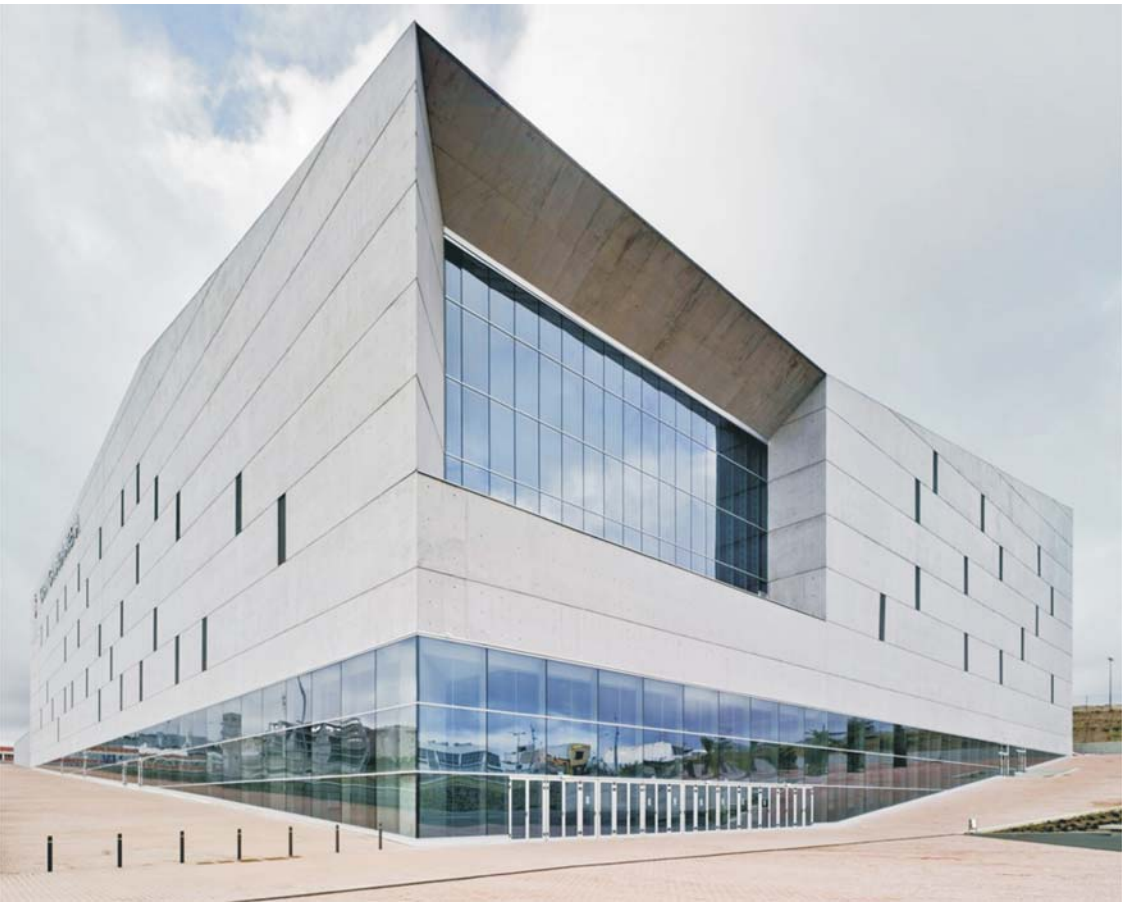
Husa Abad de San Antonio
León
Spain
Architect: Virginia González Rebollo
and José María Ruiz Sanz

Club la Santa
Lanzarote (Las Palmas)
Spain
Architect: Carlos Morales

Baobab suites hotel
Tenerife (S/C Tenerife)
Spain
Architect: Leonardo Omar
and Álvarez y de Miguel

Grupotel Gran Vía 678
Barcelona
Spain
Architect: María del Mar Ramis
Fornes

leisure / sport



Gran Canaria Arena
Gran Canaria (Las Palmas)
Spain
Architect: LLPS Arquitectos

Sport Centre
Střelnice
Czech Republic
Architecte: Boris Šonský
& Vojtěch Valtr

River Hall Restaurant
Zaragoza
Spain
Architect: Luis Duret
and Ruth de Rioja Marrero

Sport Centre
Santander (Cantabria)
Spain
Architect: Julián Franco Rodríguez
and José Manuel Palao Núñez

Manresa Technology Centre
Manresa, Barcelona
Spain
Architect: TAC Arquitectos

Incesa (Craiova University)
Craiova
Romania
Architect: B.E.T.A.

Almería Science and Technology Park
Almería
Spain
Architect: Julián Franco Rodríguez and José Manuel Palao Núñez

Animal Biotechnology Centre
Leioa (Vizcaya)
Spain
Architect: Jaam Arquitectos

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