

TermoExpress is a joinery manufacturer specialized in providing high-quality, high-performance and sustainable heat-insulating sulutions for construction companies within Europe!

We manufacture and supply customized solutions for aluminum and PVC windows and doors from Cortizo, a brand recognized worldwide for the quality of its profiles and the reliability of its closing systems. Our collaboration with Cortizo it's not limited to exteriour joinery. We offer a wide range of products including roller shutters, curtain walls, sliding glass panels, garage doors and a variety of profiles and accessories.

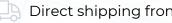


OVIDIU TOMOIAGA CEO & Founder TermoExpress

What's in it for you?



- Personalized consulting services
- Design and production



Direct shipping from our factory

OVER 78.000 mp produced and marketed **OVFR 6000** completed projects Technical assistance for installation

Manufacturer's Warranty

OVFR 3000 satisfied customers

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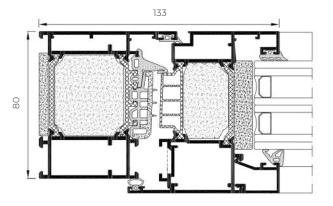
Industrial Passivhaus



Certified for the warm-temperate category, this system offers exceptional thermal insulation thanks to its special foams on the frame and sash. With a transmittance value Uw from just 0.66 W/m²K, it is an ideal solution for buildings with low energy consumption.

FEATURES		
Transmittance		Uw ≥ 0.66 (W/m²K)
Acoustic insulation	((())	Rw up to 46 dB
Air permeability		Class 4
Water tightness	* (*)	Class E1950
Wind resistance	The second secon	Class C5

CE CEKAL



Reference test 1.23 x 1.48 m / 2 sashes

POSSIBILITIES



OPENING POSSIBILITIES



Inward Opening

Side hung Tilt & turn Tilt & parallel Tilt only

Sightlines

Frame 80 mm, Sash 88 mm Profile Thickness 1.6 mm Polyamide Strip Length 45 mm

Glazing

Max. 65 mm, Min. 16 mm

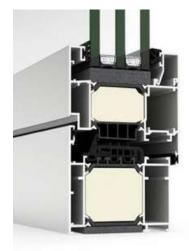
Maximum Sash Dimensions

Width (L) 1500 mm, Height (H) 2600 mm

Maximum Sash Weight

160 kg

Consult maximum weight and dimensions according to typologies.



Aesthetic possibilities: Sash: Straight / Glazing bead: Straight or curved



Industrial

With a 80 mm frame depth, the COR 80 Industrial series responds to the most severe climatic requirements thanks to its thermal break with 45 mm tubular polyamide strips and the incorporation of reticulated polyolefin both around the glass and between the frame and sash.

FEATURES		
Transmittance		Uw ≥ 0.8 (W/m²K)
Acoustic insulation	■)))	Rw up to 46 dB
Air permeability		Class 4
Water tightness	*	Class E1950
Wind resistance	-	Class C5
Burglar resistance		Grade RC2 (WK2)

Reference test 1.23 x 1.48 m / 2 sashes

POSSIBILITIES

ATG 3204

Sightlines

Frame 80 mm, Sash 88 mm

Profile Thickness

1.5 mm

Polyamide Strip Length

45 mm

Glazing

Max. 73 mm, Min. 16 mm

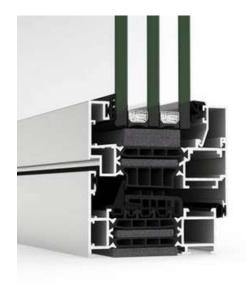
Maximum Sash Dimensions

Width (L) 1500 mm, Height (H) 2600 mm

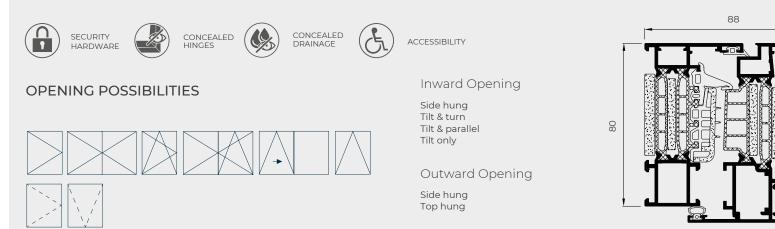
Maximum Sash Weight

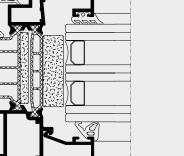
160 kg

Consult maximum weight and dimensions according to typologies.

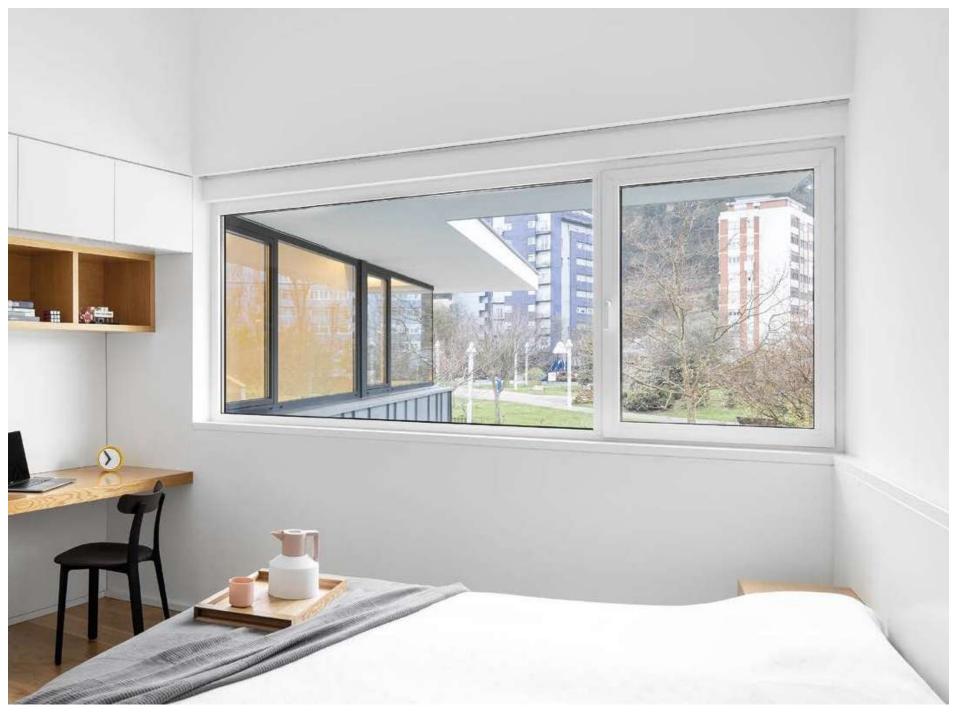


Aesthetic possibilities: Sash: Straight / Bead: Straight or curved











CORTIZO MINIMALIST HANDLE Simple lines, avant-garde design

Straight aesthetic Design without escutcheon Applicable to all European-Groove hinged series, C16 series and PVC Specific transmission box (In European-Groove) Hidden screws 8 mm spindle (In European-Groove) Dimensions 32 x 148 mm

COR 80 Hidden Sash

Elegant design with straight aesthetic in which the sash is concealed behind the frame, thus maximizing the glazed surface and the entry of light. In addition, it offers a great thermal and acoustic performance prompted by the 45 mm thermal break and a glazing capacity of up to 51 mm that allows the installation of triple glazing.

FEATURES

Transmittance		Uw ≥ 0.8 (W/m²K)
Acoustic insulation	■)))	Rw up to 46 dB
Air permeability		Class 4
Water tightness	*	Class E1650
Wind resistance	-	Class C5

Reference test 1.23 x 1.48 m / 2 sashes







Sightlines Frame 80 mm, Sash 80 mm Polyamide Strip Length 45 mm Profile Thickness Window 1.9 mm Glazing Max. 51 mm, Min. 36 mm Maximum Sash Dimensions Standard Solution: Width (L) 1300 mm, Height (H) 2400 mm HD Hinges (Side Hung): Width (L) 1200 mm, Height (H) 3500 mm Maximum Sash Weight 160 kg



First invisible handle on the market



Solution for hidden sash systems COR 80 HS, COR 70 HS and COR 70 OC

Dimensions: 27.5 mm (L) x 234 mm (H)

Ergonomics, robustness and easy handling in opening and closing operations. Totally clean aesthetics that simulate a fixed element, when in fact, it is a side hung or tilt & turn opening. Exclusive handle integrated within the sash, **imperceptible from a frontal view. Possibility of concealed hinges** that consolidates the aesthetic purity of the system.

90°

VSCH

INVISIBLE

BY CORTIZO

Industrial

This 70 mm frame depth hinged system offers great thermal and acoustic performance combined with very simple fabrication, which is why it has become one of the most demanded series for aluminium windows, doors and balconies.

FEATURES		
Transmittance		Uw ≥ 0.9 (W/m²K)
Acoustic insulation	■)))	Rw up to 44 dB
Air permeability		Class 4
Water tightness	·£	Class E1800
Wind resistance	the second secon	Class C5
Burglar resistance	J.	Grade RC2 (WK2)
Security test	PAS24	Passed

Reference test 1.23 x 1.48 m / 2 sashes Security test: Reference test 1.100 x 2.400 m / 1 sash Burglar test 1.47 x 2.52 m / 1 sash with EVO SECURITY

hardware CSTB Laboratory DTA Certification



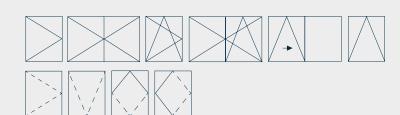


POSSIBILITIES



CONCEALED DRAINAGE

OPENING POSSIBILITIES

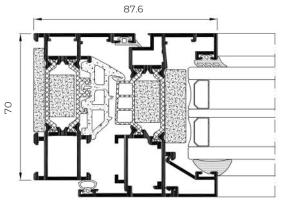


Inward Opening

Side hung Tilt & turn Tilt & parallel Tilt only

Outward Opening

Side hung Top hung Pivoting on horizontal or vertical axis





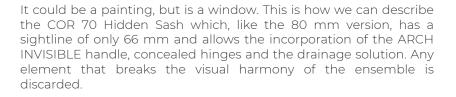
COR 70 INDUSTRIAL



Sightlines Frame 70 mm, Sash 78 mm Polyamide Strip Length From 32 - 35 mm Profile Thickness Window 1.5 mm Door 1.7 mm Glazing Max. 63 mm, Min. 6 mm Maximum Sash Dimensions Width (L) 1500 mm, Height (H) 2600 mm Maximum Sash Weight 160 kg Aesthetic possibilities: Sash: Straight / Glazing bead: Straight or cur ved

Consult maximum weight and dimensions according to typologies

Hidden Sash

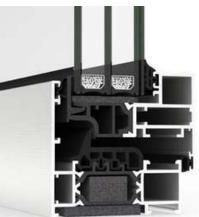


FEATURES		
Transmittance		Uw ≥ 1.0 (W/m²K)
Acoustic insulation	◄)))	Rw up to 46 dB
Air permeability	ŧ	Class 4
Water tightness	*	Class E1650
Wind resistance	(Class C5
Security test	PAS24	Passed

Reference test 1.23 x 1.48 m / 1 sash Security test: Reference test 1.100 x 2.400 m / 1 sash CSTB Laboratory DTA Certification



Tilt & turn Tilt only





A CORTIZO

Sightlines Frame 70 mm, Sash 70 mm Polyamide Strip Length 35 mm Profile Thickness Window 1.9 mm

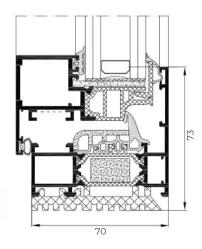
Window 1,9 mm **Glazing** Max. 40 mm, Min. 26 mm **Maximum Sash Dimensions Standard solution:** Width (L) 1300 mm, Height (H) 2400 mm **HD Hardware (Side Hung):** Width (L) 1200 mm, Height (H) 3500 mm **Maximum Sash Weight** 160 kg





CONCEALED DRAINAGE SOLUTION





Minimizes the aesthetic impact of the window components.

Compatible with all the 70 mm frame depth systems. It features a gasket at the bottom of the frame

to evacuate the water, replacing the front drainage caps. Facilitates window fabrication,

allowing to place the base of the frame on the site itself.

OR 70 OC

Hidden sash system oriented to the French market with monoblock frame that makes installation easier. Using this new frame allows faster fabrication and installation, avoiding overlaps, cills and any other complementary profiles, speeding up assembly and fitting. The fabricator can choose either straight or 45 degree cut.

FEATURES $Uw \ge 1.0 (W/m^2K)$ Transmittance \otimes **(()** Rw up to 46 dB Acoustic insulation Class 4 æ Air permeability Class E1650 ·* Water tightness Class C5 Wind resistance

Reference test 1.23 x 1.48 m / 1 sash CSTB Laboratory DTA Certification

POSSIBILITIES













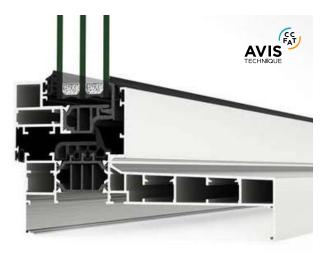


OPENING POSSIBILITIES



Inward Opening Side hung

Tilt & turn Tilt only



* Mitered frame

Sightlines

Frame 70 - 232 mm, Sash 70 mm

Polyamide Strip Length

35 mm

Profile Thickness

Window 1.9 mm

Glazing Max. 40 mm, Min. 26 mm

Maximum Sash Dimensions

Standard solution:

Width (L) 1300 mm, Height (H) 2400 mm

HD Hardware (Side Hung):

Width (L) 1200 mm, Height (H) 3500 mm

Maximum Sash Weight

160 kg

89.8 95 ω

* Mitered frame





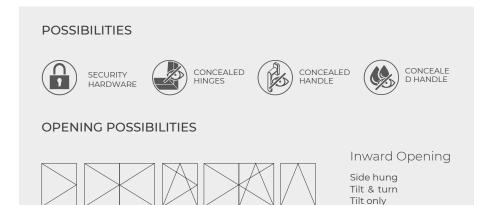
FEATURES

OC Half - Hidden sash

The half hidden sash version of the COR 70 OC allows to expand the aesthetic possibilities of this series with monoblock frame available at straight or 45 degree cut.

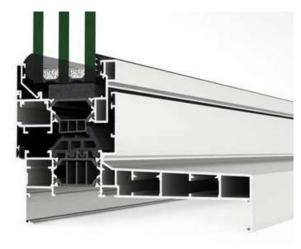
Transmittance	*	Uw ≥ 1.0 (W/m²K)
Acoustic insulation	◄)))	Rw up to 44 dB
Air permeability	ŧ	Class 4
Water tightness	* t	Class E1800
Wind resistance		Class C5

Reference test 1.23 x 1.48 m / 2 sashes CSTB Laboratory DTA Certification

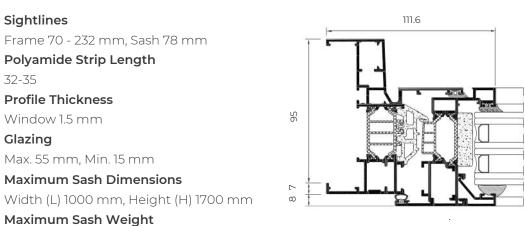








* Mitered frame



* Mitered frame

Consult maximum weight and dimensions according to typologies

32-35

160 kg

15

aesthetic possibilities





COR **70 OC** Straight cut frame COR **70 OC** Perimetral frame





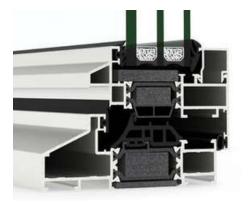
COR **70 OC Half - Hidden sash** Straight cut frame COR **70 OC Half - Hidden sash** Perimetral frame



ALU-STEEL



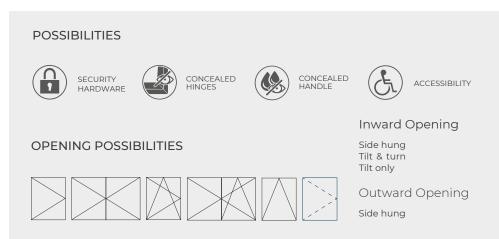
Inspired by classic line designs, the new Alu-Steel system allows to combine aluminium outstanding performances values with a steel-alike appearance. With a sightline of only 72.5 mm, Alu-Steel is a the perfect solution for new buildings and refurbishments, offering two different versions, classic or modern.

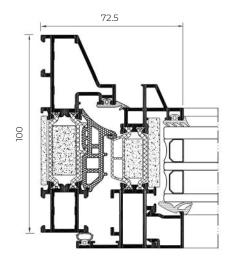


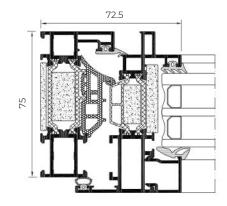


*Classic version

*Modern version







*Classic version

*Modern version

FEATURES Transmittance \otimes $Uw \ge 0.83 (W/m^2K)$ **■**))) Acoustic insulation Rw up to 45 dB * Air permeability Class 4 * Class E1200 Water tightness -Class C5 Wind resistance

Reference test 1.23 x 1.48 m / 2 sashes

18

ALU-STEEL



Sightlines Modern frame 75 mm Classic frame 100 mm Sash 83 mm Polyamide Strip Length 32-39 mm 7rofile Thickness Window 1.5 mm Glazing Max. 54 mm, Min. 20 mm Maximum Sash Dimensions Width (L) 1500 mm, Height (H) 2600 mm Maximum Sash Weight

Consult maximum weight and dimensions according to typologies



Hinged system with 60 mm of frame depth, featuring 24 mm polyamide strips, which provides a notable thermal and acoustic comfort, achieving a noise reduction of up to 48 dB.



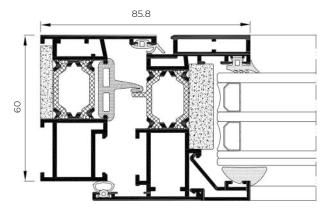
Aesthetic possibilities:

Sash: Straight or curved Glazing Bead: Straight or cur ved Sightlines Frame 60 mm, Sash 68 mm Polyamide Strip Length 24 mm Profile Thickness Window 1.6 mm Door 1.6 mm Door 1.6 mm Max. 46 mm, Min. 5 mm Maximum Sash Dimensions Width (L) 1500 mm, Height (H) 2600 mm Maximum Sash Weight

160 kg

₩ $Uw \ge 1.0 (W/m^2K)$

Consult maximum weight and dimensions according to typologies.



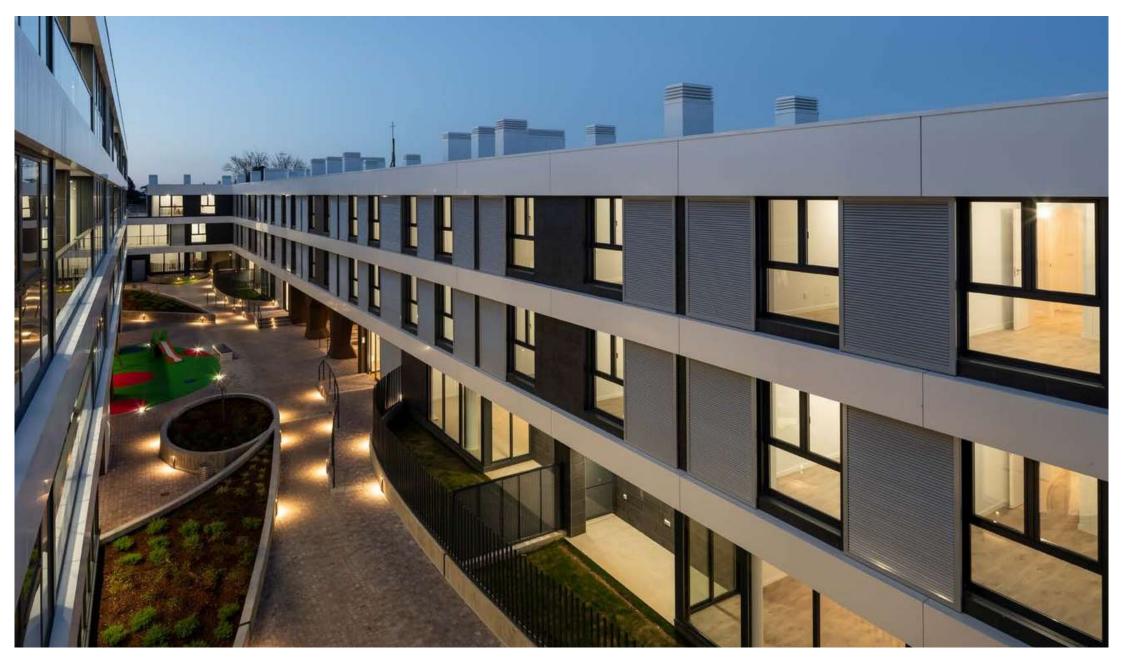
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Side hung Til & turn Bi-fold Tilt & parallel Bottom hung Side hung Top hung Pivoting on horizonal or vertical axis.

FEATURES

Transmittance

Acoustic insulation	🔊 Rw up to 48 dB
Air permeability	E Class 4
Water tightness	Class E1350
Wind resistance	Class C5





COR70Evolution

Hinged system with groove 16 destined for the industrial production of windows, doors and balconies. In order to reduce the manufacturing period, this new series offers the possibility of using pre-assembled gaskets, assembling cleats and a central floating mullion with a two piece hidden sash, which allows the glazing of double-sash windows on site. COR 70 Evolution is presented in a version of hidden or half-hidden sash with monoblock frames, in straight cut or perimetral, aiming at facilitating the on-site installation.

FEATURES

Transmittance Hidden Sash		Uw ≥ 1,0 (W/m²K)
Transmitancia Half Hidden Sash	*	Uw ≥ 0,9
Acoustic insulation	(((P))	(W/m²K) Rw up
Air permeability	#	to 43 dB Class 4
Water tightness Hidden Sash	*	Class E1200
Water tightness Half Hidden Sash		Class E1500
Wind resistance	at the second se	Class C5

Reference test 1.23 x 1.48 m / 2 sashes

POSSIBILITIES









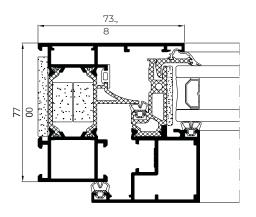
OPENING POSSIBILITIES



HINGES

Inward Opening

Side hung Tilt & turn Tilt only



Hidden Sash

Sightlines

Frame 70 - 232 mm

Sash 72,5 - 80,5 mm

Glazing 36 mm

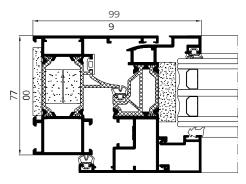
Maximum Sash Dimensions

Width (L) 1300 mm Height (H) 2400 mm

Maximum Sash Weight

150 kg

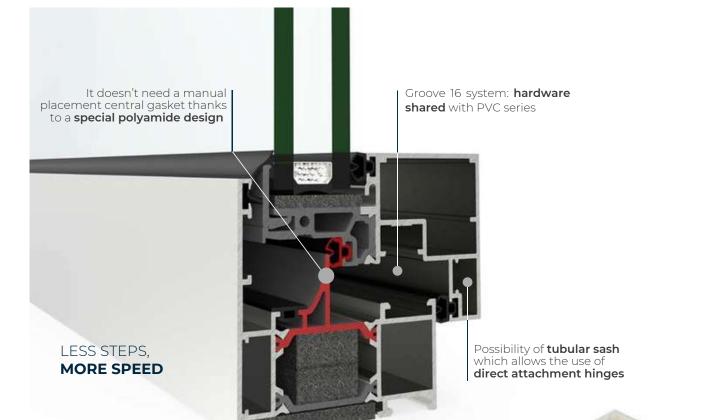
Consult maximum weight and dimensions according to typologies



Half Hidden Sash Sightlines Frame 70 - 232 mm Sash 80,5 - 88,5 mm Glazing 63 mm **Maximum Sash Dimensions** Width (L) 1500 mm Height (H) 2600 mm Maximum Sash Weight

150 kg

Consult maximum weight and dimensions according to typologies



MANUAL GLAZING GASKETS AVAILABLE





Glazing gasket 6.5 mm **Glazing gasket** 8.5 mm





Glazing gasket 2.5 mm

Glazing gasket 4.5 mm



POSSIBILITY OF PROVIDING PREASSEMBLED GASKETS

Gaskets available

Evolution

aesthetic possibilities





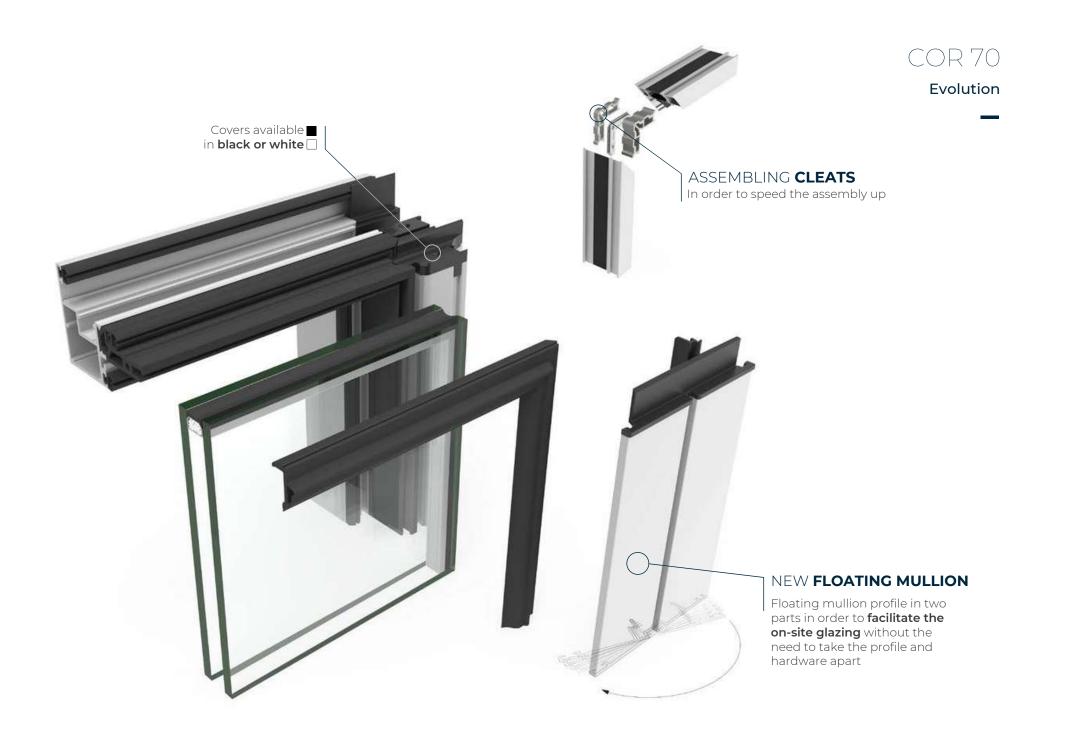
Hidden sash

Half - Hidden sash





Perimeter Monoblock frame **Straight cut** Monoblock frame

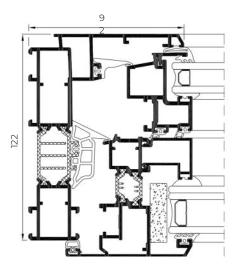


COR URBAN

C16

A CORTIZO

This system is especially suitable for buildings located in areas with high acoustic activity. This thermally broken window with double hidden sash of 122 mm, quadruple glazing and 4 gaskets, enables a noise reduction of up to 50 dB.



Sightlines

Frame 122 mm, Sash 121 mm **Polyamide Strip Length** Frame 35 mm, Sash 20 mm **Profile Thickness** Window 1.6 mm **Glazing** Internal sash: Max. 38 mm, Min. 13 mm External sash: Max. 22 mm, Min. 11 mm

Maximum Sash Dimensions Width (L) 1200 mm, Height (H) 2200 mm Maximum Sash Weight

150 kg

Consult maximum weight and dimensions according to typologies

POSSIBILITIES



OPENING POSSIBILITIES



Inward opening Side hung

Tilr & turn

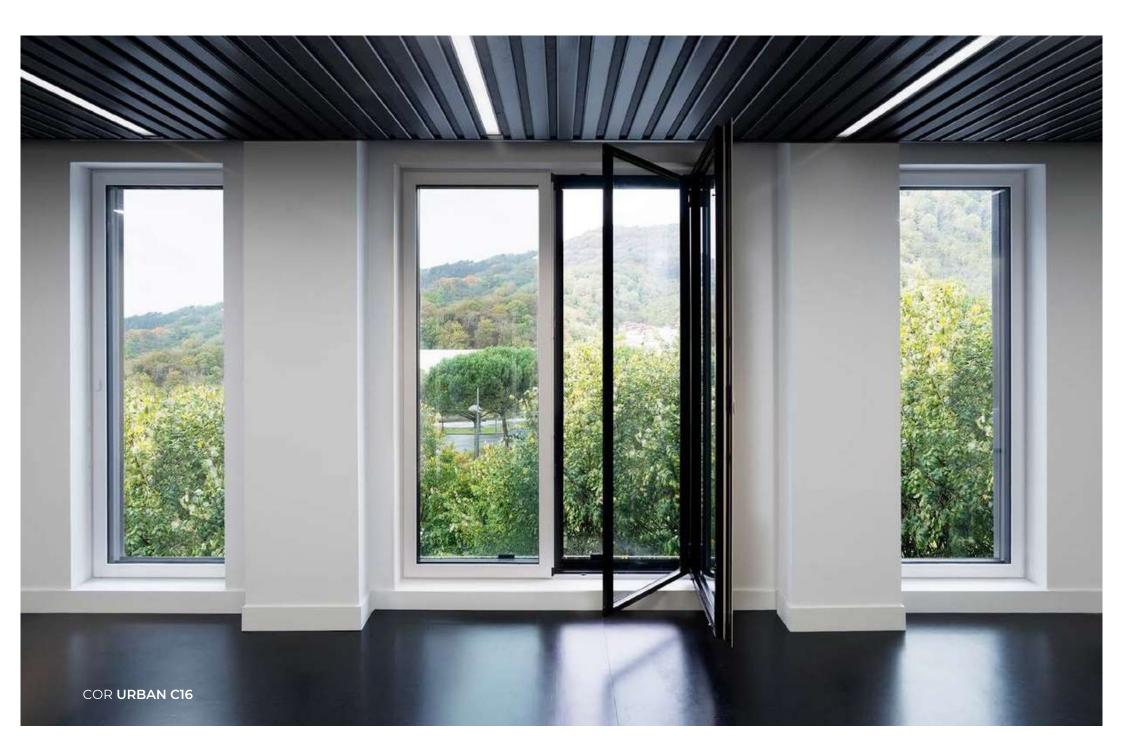


Aesthetic possibilities: Sash: Chamfered / Glazing Bead: Chamfered

FEATURES

Transmittance		Uw ≥ 1.2 (W/m²K)
Acoustic insulation	(((۲	Rw up to 50 dB
Air permeability		Class 4
Water tightness	**	Class E1650
Wind resistance	-	Class C5

Reference test 1.23 x 1.48 m / 1 sash

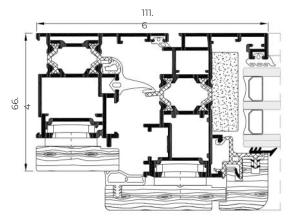


COR GALICIA

Premium C16

Thermally broken mixed system that combines an external aluminium profile and its excellent performance with the warmth and design that an internal timber profile provides. Any of the finishes amongst the extensive range of CORTIZO powder coating or anodizing finishes may be selected for the surface treatment of the external face. On the other hand, the internal face is available in American oak, sapelly, mellis pine and other timber options available on request, all of them treated with a transparent, satin, dissolvent free ecological varnish.





Inward opening

Side hung Tilt & turn Tilt & parallel

Bottom hung

POSSIBILITIES



FEATURES

Transmittance	*	Uw ≥ 1.1 (W/m²K)
Acoustic insulation	■)))	Rw up to 40 dB
Air permeability		Class 4
Water tightness	*	Class E1050
Wind resistance	(Class C5

Reference test 1.23 x 1.48 m / 2 sashes



POSSIBILITIES

OPENING

28

COR GALICIA PREMIUM C16



CASEMENT

Thermally broken window that allows for both side hung and top hung outward openings. This solution, with a thermal break zone of 32 mm and a transmittance Uw from 1.0 W/m²K, has the British security certification PAS 24, being especially suitable for this market.

FEATURES		
Transmittance		Uw ≥ 0.9 (W/m²K)
Acoustic insulation	(1))	Rw up to 45 dB
Air permeability		Class 4
Water tightness	*	Class E1200
Wind resistance	-	Class CE 2400
Security test	PAS24	Passed

Reference test 1.438 x 1.33 m / 1 sash + 1 fixed light Security test: Reference test 1.438 x 1.33 m / 1 sash

POSSIBILITIES

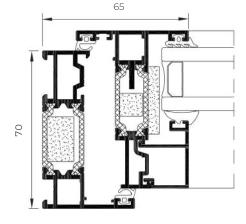


CONCEALED HINGES

OPENING POSSIBILITIES



Outward Opening Side hung Top hung



79

79

* Standard Version

* Flush Version





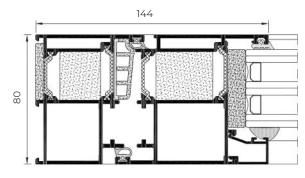
Sightlines Frame 70 mm, Sash 70 mm Polyamide Strip Length 32 mm **Profile Thickness** Window 1.6 mm Glazing Max. 44 mm, Min. 23 mm Maximum Sash Dimensions Slim Sash (Side Hung): Width (L) 950 mm, Height (H) 1300 mm Slim Sash (Top Hung): Width (L) 1200 mm, Height (H) 1300 mm Heavy Duty Sash (Side Hung): Width (L) 750 mm, Height (H) 1750 mm Heavy Duty Sash (Top Hung): Width (L) 1800 mm, Height (H) 1800 mm Maximum Sash Weight Side Hung Slim Sash: 35 kg Top Hung Slim Sash: 50 kg Side Hung Heavy Duty Sash: 42 kg Top Hung Heavy Duty Sash: 100 kg



Millennium Plus 80



Flush entrance door system with straight lines, 80 mm of frame depth, and a thermal break zone of 34 mm, particularly suitable for commercial and residential buildings.



FEATURES

Transmittance	Uw ≥ 0.8 (W/m²K)
Acoustic insulation	Rw up to 40 dB
Air permeability	Class 4
Water tightness	Class 6A
Wind resistance	Class C4
Resistance to mild impact	Class 5 (Max.)
Repeated openings and closings 📢	1,000,000 Cycles
Burglar resistance	Grade RC2

Wind resistance: Reference test 1.20 x 2.30 m / 1 sash

Resistance to mild impact: EN 13049. Test on door reference 1.80 x 2.20 m / 2 sashes. Laminated glass 3+3 Resistance to repeated openings and closings: EN 1191. Test on door reference 2.10 x 2.20 m / 1 sash Burglar test NEN 5096: 2012+A1: 2015 in EN 1627:201

Sightlines

Frame 80 mm, Sash 80 mm

Polyamide Strip Length

34 mm

Profile Thickness

Door 2.0 mm

Glazing

Max. 64 mm, Min. 15 mm

Maximum Sash Dimensions

Door:

Width (L) 1800 mm, Height (H) 3000 mm

Concealed door hinges:

Width (L) 1500 mm, Height (H) 2700 mm

Maximum Sash Weight 220 kg / 120 Kg (concealed hinges)

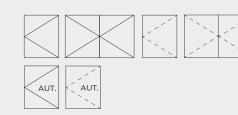
Consult maximum weight and dimensions according to typologies







OPENING POSSIBILITIES



A CORTIZO

Inward Opening Side hung Outward opening Side hung Automatic Opening Inward and outward side hung



Millennium Plus 70





Flush entrance pedestrian door system with 70 mm of frame depth that guarantees high thermal and acoustic insulation.

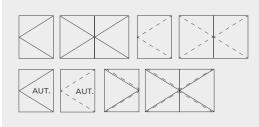


Sightlines		
Frame 70 mm, Sash 70 mm		
Polyamide Strip Length		
24 mm		
Profile Thickness		
Door 2.0 mm		
Glazing		
Max. 54 mm, Min. 15 mm		
Maximum Sash Dimensions		
Door:		
Width (L) 1800 mm, Height (H) 3000 mm		
Concealed door hinges:		
Width (L) 1500 mm, Height (H) 2700 mm		
Maximum Sash Weight		
220 kg		

120 Kg (concealed hinges)

Consult maximum weight and dimensions according to typologies

OPENING POSSIBILITIES



Inward Opening Side hung Outward opening

Side hung

Automatic Opening Outward and inward side hung

Swing Opening Side hung

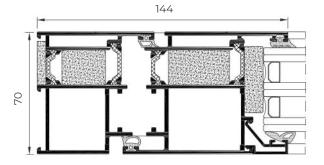
FEATURES			
Transmittance	Uw ≥ 0.9 (W/m²K)		
Acoustic insulation	Rw up to 38 dB		
Air permeability	Class 4		
Water tightness	Class 6A		
Wind resistance	Class C4		
Resistance to mild impact	Class 5 (Max.)		
Repeated opening and closings 🕼	1,000,000 cycles		
Burglar resistance	Grade RC2		

Wind resistance: Reference test 1.20 x 2.30 m / 1 sash

Resistance to mild impact: EN 13049. Test on door reference 1.80 x 2.20 m / 2 sashes. Laminated glass 3+3 Security test: EN 5096: 2012+A1: 2015 in EN 1627: 201

Resistance to repeated openings and closings: EN 1191. Test on door reference 2.1 X 2.2 m / 2 sashes Burglar test NEN 5096: 2012+A1: 2015 en EN 1627:201

ACCESSIBILITY

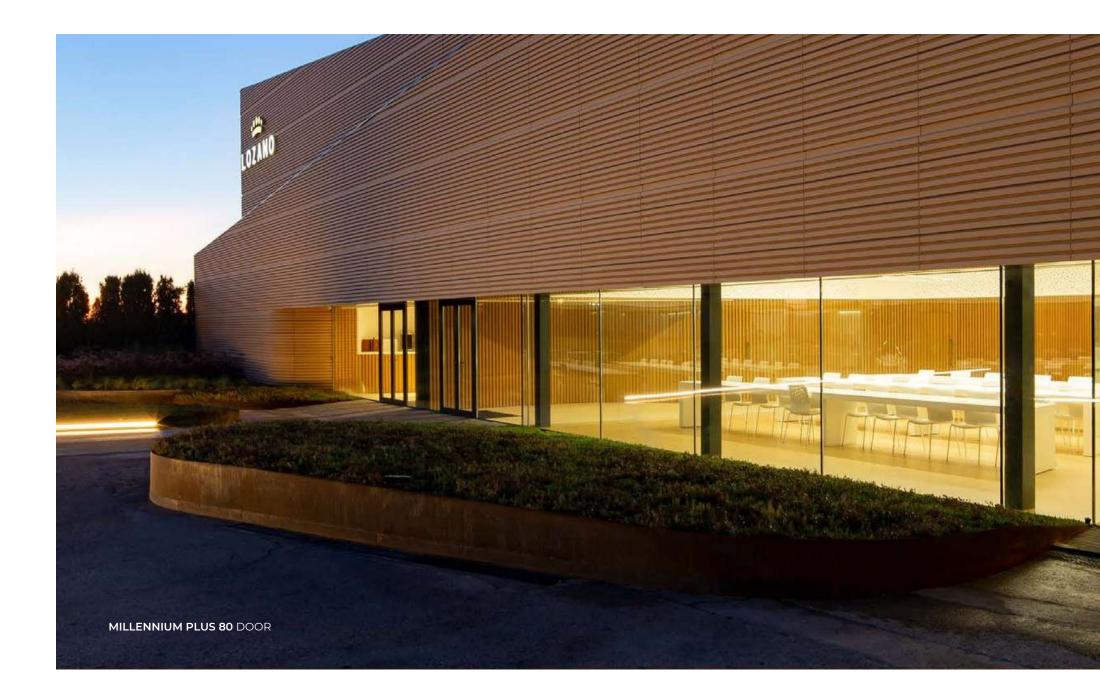


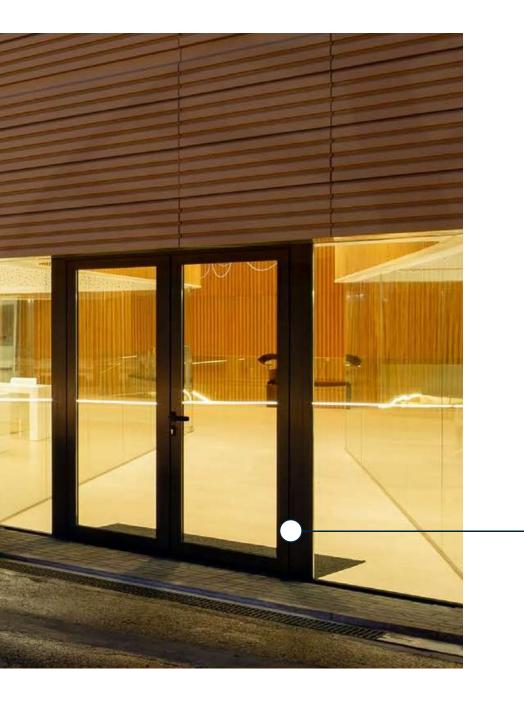
POSSIBILITIES











CONCEALED HINGES

The Millennium Plus door system allows **concealed hinges** that reinforce the flush aesthetic of the series



Millennium Plus Pivot

DOOR

The new CORTIZO entrance door system, available in a paneled or glazed version, responds to the latest design trends. Thanks to its axes, it allows large pivot openings, becoming a cutting-edge solution for contemporary architecture. Safety and excellent thermal and acoustic performance are also protagonists in a system that completes CORTIZO's catalog of minimalist solutions.





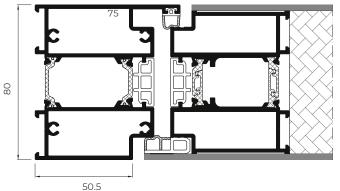
Glazed version

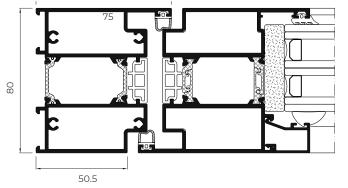
FEATURES Transmittance * $UW \ge 0.86 (W/m^2K)$ Class 4 * Air permeability Class 5A -Water tightness Class C5 ÷ Wind resistance

Reference test 1.20 x 2.00 m / 1 Sash













Frame 80 mm, Sash 80 mm Polyamide Strip Length 24 / 26 mm Profile Thickness Door 2,0 mm Panel 80 mm Maximum glazing 64 mm Maximum Sash Dimensions Width (L) 2100 (1700* + 400) mm Height (H) 3000 mm Maximum Sash Weight

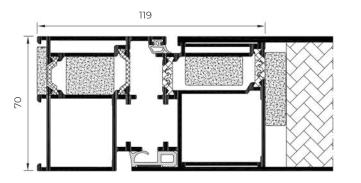
Sightlines

Consult maximum weight and dimensions according to typologies * Measured from the pivot axis

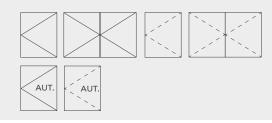
Panelled

DOOR

Compatible with the Millennium Plus 80 and Millennium Plus 70 series, it incorporates a panel integrated into the sash, which allows a wide range of aesthetic possibilities. In addition, it allows for the installation of an embedded handle with led illumination and a scanner.



OPENING POSSIBILITIES

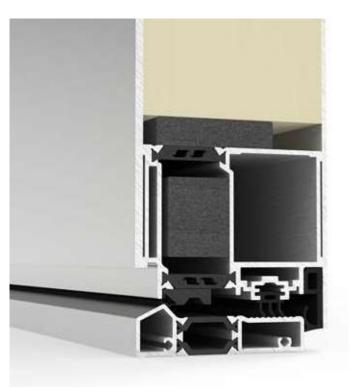


Inward Opening Side hung Automatic side hung

Outward Opening Side hung Automatic side hung

Wind resistance: Reference test 1.20 x 2.30 m /1 sash Resistance to mild impact: Test carried out according to standard EN 13049 Test on door reference 1.80 x 2.20 m /2 sashes. Laminated glass 3+3 Resistance to repeated openings and closing: Test carried out according to standard EN 1191 Test on door reference 0.935 x 2.10 m /1 sash

*Compatible with Millenium Plus 70 and 80 doors



Sightlines

Frame 80 / 70 mm, Sash 80 / 70 mm **Polyamide Strip Length** 30 / 34 mm (80) 20 / 24 mm (70) **Profile Thickness**

Door 2,0 mm **Panel** Max. 80 mm, Min. 33 mm (80) Max. 70 mm, Min. 23 mm (70)





Maximum Sash Dimensions

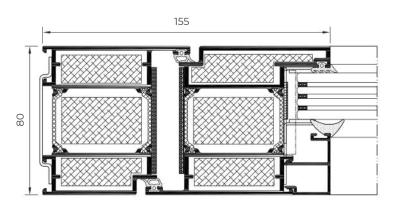
Door: Width (L) 1800 mm, Height (H) 3000 mm Concealed door hinges: Width (L) 1500 mm, Height (H) 2700 mm Maximum Sash Weight 220 kg 120 Kg (concealed hinges)

Consult maximum weight and dimensions according to typologies

Millennium FR

DOOR

Aluminium fire door system with fire resistance category El 260 in order to meet safety requirements in the event of fire, allowing the compartmentalisation by building areas and facilitating the evacuation of the users. It offers a fire resistance period of 60 minutes thanks to the use of non-combustible retardant insulation materials in the profile chambers and intumescent gaskets.





Sightlines Frame 80 mm, Sash 80 mm Polyamide Strip Length 35 mm Profile Thickness Door 2.2 mm Glazing Max. 48 mm, Min. 15 mm Maximum Sash Dimensions Width (L) 1450 mm, Height (H) 2600 mm Maximum Sash Weight 240 kg

Consult maximum weight and dimensions according to typologies

FEATURES		
Transmittance	*	Uw ≥ 1.4 (W/m²K)
Acoustic insulation	(((Rw up to 38 dB
Fire resistance and smoke control		Class El 60-C5

Classification according to standard UNE-EN 13501-2+A1 (C5=200.000 test cycles) Reference test 1.35 x 2.35 m /1 sash. Glass EI60 single glazed 23 to 25 mm.

OPENING POSSIBILITIES



Inward opening Side hung Outward Opening Side hung



Millennium 2000

DOOR

Pedestrian door system for commercial and residential buildings that allows the incorporation of double or triple flag hinges of high strength, capable of supporting up to 180 kg. per sash.



Sightlines Frame 45 mm, Sash 45 mm Profile Thickness Door 2.0 mm Glazing Max. 30 mm, Min. 3 mm Maximum Sash Dimensions Side hung: Width (L) 1450 mm, Height (H) 3000 mm Swing: Width (L) 1100 mm, Height (H) 3000 mm Maximum Sash Weight Hasimum Sash Weight

Consult maximum weight and dimensions according to typologies

POSSIBILITIES



Aesthetic possibilities: Sash: Straight / Bead: Straight or curved

FEATURES

Transmittance		Uw ≥ 2.3 (W/m²K)
Acoustic insulation	(((Rw up to 38 dB
Resistance to mild impact	$[\checkmark]$	Class 5 (Max.)

Test carried out according to standard UNE-EN 13059 Reference test 1.80 x 2.20 m / 2 sashes. Laminated glass 3+3

OPENING POSSIBILITIES

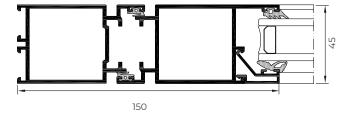




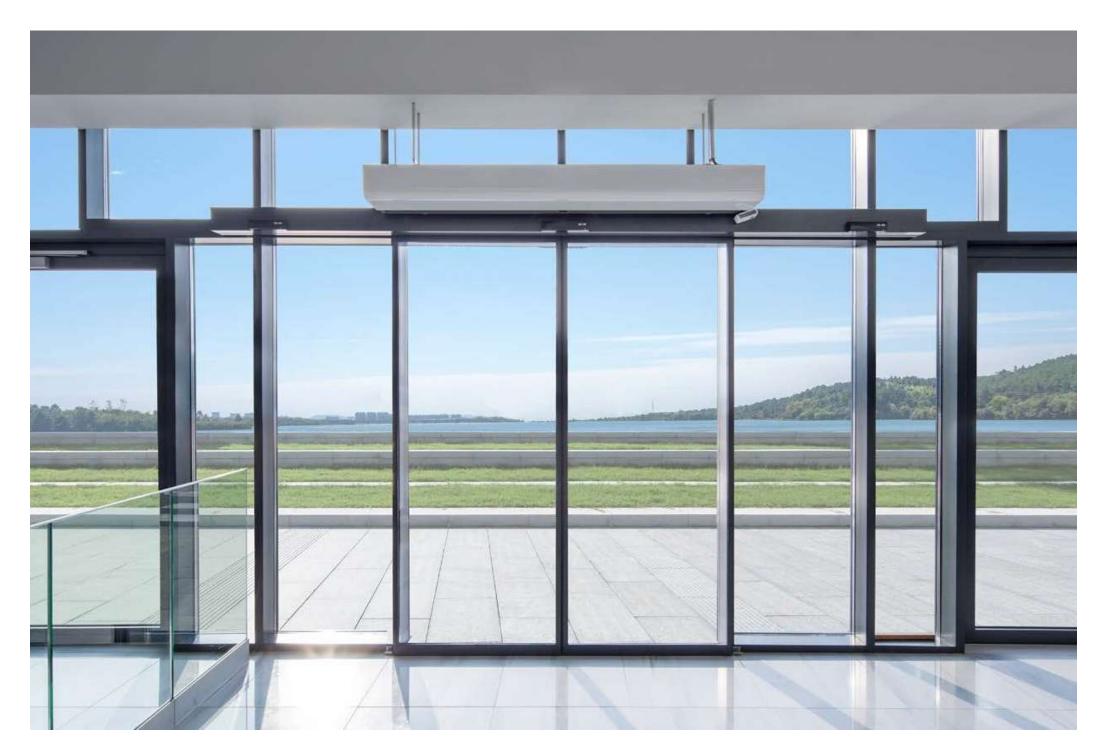
Inward opening

- Side hung Automatic side hung
- Outward Opening Side hung Automatic side hung

Swing Opening Side hung 1 and 2 sashes







42

Millennium Sliding Automatic

DOOR



Door system with sliding sashes and automatic opening, designed to solve high traffic entrances (offices, shopping centres, hospitals...) since it guarantees fluidity of user's traffic and safety in emergency situations.

ACCESSIBILITY

POSSIBILITIES

DN (



Sightlines

Frame 45 mm Sash 45 mm (EC-drive engine) Sash 25 mm (Slimdrive engine)

Profile Thickness

Door 2.0 mm

Glazing

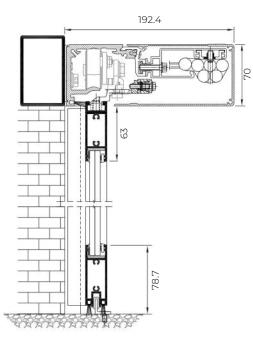
Max. 30 mm, Min. 3 mm

Maximum Sash Dimensions Width (L) 2000 mm, Height (H) 3000 mm

Maximum Sash Weight

120 Kg

Consult maximum weight and dimensions according to typologies



OPENING POSSIBILITIES



Automatic Opening Sliding 1 sash and 1 fixed light Sliding 2 sashes and 2 fixed lights

Monumental Bi-fold



The new Bi-Fold Monumental door hits the market in order to complete the CORTIZO catalogue of XL systems. Thanks to its large dimensions, we will be able to manufacture sashes up to 5 m high and 1.2 m wide. In addition, the Monumental Bi-fold has proved its great performance against the most extreme meteorological phenomena, and has successfully overcome the tests ASTM E1886-19 and ASTM E1996-17 against hurricanes and structural impacts.

FEATURES

Transmittance		Uw ≥ 1.1 (W/m²K)
Air permeability	*	Passed
Water tightness	* *	DP 60
Wind resistance	÷.	DP 40
Structural Overload		DP 40
Hurricane impact		Passed

Air permeability test at a 75 Pa (ASTM E283-04 (2012))

Water-tightness test (ASTM E547-00 (2016))

Wind resistance test – uniform load deflection at design pressure (ASTM E330-14) Uniform load structural overload test (OL) at 1.5 design pressure (ASTM E330-14) Hurricanes impact and structural cycling test: Large missile (missile D) per wind zone 3 and air pressure cycling at DP40 positive / negative (ASTM E1886-19 and ASTM E1996-17) Reference test 3.66 x 3.71 m, 3 sashes

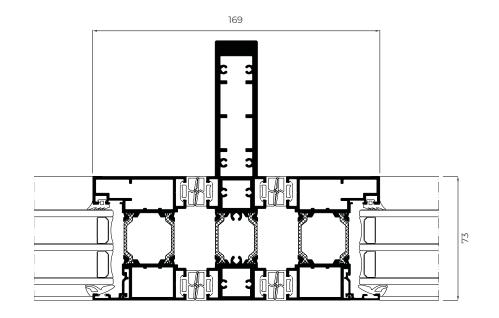
OPENING POSSIBILITIES

From 1 to 14 sashes



SECURITY HARDWARE

POSSIBILITIES



Sightlines

Frame 73 mm, Sash 73 mm

Profile Thickness

Door 1.8 mm

Glazing

Max. 45 mm, Min. 25 mm

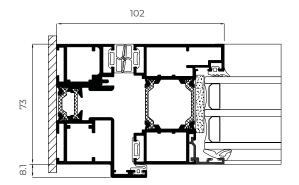
Maximum Sash Dimensions

Width (L) 1200 mm, Height (H) 5000 mm

Maximum Sash Weight

220 kg

Consult maximum weight and dimensions according to typologies







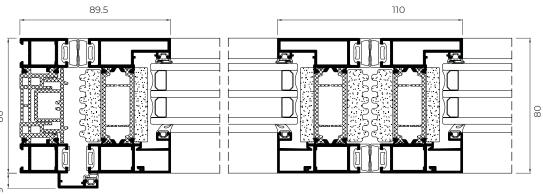
Bi-fold Plus





Separate environments and unify spaces with this bi-fold door system with an 80 mm deep frame. This evolution of the Bi-fold series offers an excellent thermal and acoustic performance, thanks to its 45 mm thermal break and a glazing capacity up to 52 mm. Besides, it presents a slim central section of 110 mm which allows the maximisation of the glazed surface, filling the interior spaces with natural light.

					0010
	FEATURES			_	
	Transmittance		Uw ≥ 0.8 (W/m²K)		
-	Air permeability		Class 4		
-	Water tightness	*	Class E750	80	
	Wind resistance		Class C3	_	
_	Repeated openings and closings	(J	50,000 cycles 25,000 cycles (Main swing door) (Even sashes)		
	Security test	AS24 🗸	Passed		



Reference test 3.73 x 2.50 m, 3 sashes

Security test: 3 sashes reference test. Configuration 321 2.70 x 2.50 m Resistance to repeated openings and closings: EN 1191, 3 sashes reference test. Configuration 321 3.73 x 2.50 m

Inward

OPENING POSSIBILITIES



Outward

Up to 14 sashes Up to 14 sashes

90° corner sash without mullion

POSSIBILITIES



) ACCESSIBILITY

Sightlines

Frame 80 mm, Sash 80 mm

Polyamide Strip Length

Frame 45 mm

Sash 45 mm

Profile Thickness

Door 1.8 mm

Glazing

Max. 48 mm, Min. 25 mm

Maximum Sash Dimensions

Width (L) 1200 mm, Height (H) 3000 mm

Maximum Sash Weight

120 kg



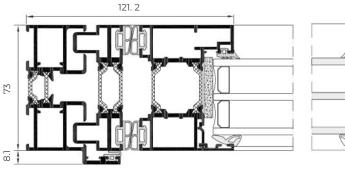
Bi-fold

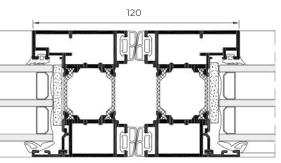
DOOR



Bi-fold door system with 73 mm of frame depth and optimal thermal and acoustic performances, ideal for moderate climates.

FEATURES		
Transmittance	發	Uw ≥ 1.1 (W/m²K)
Air permeability	ŧ	Class 4
Water tightness	*	Class 9A
Wind resistance	Les la	Class A3
Security test	PAS24	Passed





Wind resistance: reference test 2.700 x 2.530 m / 3 sashes Security test: Configuration 330. 2701 x 2517 mm / 3 sashes

OPENING POSSIBILITIES



Inward From 1 to 14 sashes

Outward

From 1 to 14 sashes Possibility of corner sash at 90° without mullion

POSSIBILITIES



ACCESSIBILITY

Sightlines

Frame 73 mm, Sash 73 mm Polyamide Strip Length Frame 20 mm Sash 30 mm Profile Thickness Door 1.8 mm Glazing Max. 45 mm, Min. 25 mm Maximum Sash Dimensions Width (L) 1200 mm, Height (H) 3000 mm

Maximum Sash Weight

120 kg



COR VISION

Plus

The greatness of minimalism is reflected in this sliding system of large dimensions with sashes of up to 4 meters, interlock sightline of only 25 mm and frames embedded in the perimeter, allowing for a glazed surface of up to 94%. It has a maximum glazing capacity of 56 mm, offering excellent thermal and acoustic performances. Available with manual (up to 400 kg) or motorized (up to 700 kg) opening system. Additionally, accessibility is favoured by the possibility of hiding the rail and even integrating it fully into the floor.

FEATURES		
Transmittance	*	Uw ≥ 0.9 (W/m²K)
Acoustic insulation	◄)))	Rw up to 43 dB
Air permeability		Class 4
Water tightness	*	Class 7A* / 9A**
Wind resistance	-	Class C3* / C4**

Wind resistance:

* Reference test balcony 4.00 x 3.00 m / 2 sashes

**Reference test balcony 4.00 x 3.00 m / 1 sash + 1 fixed light

Sightlines

Frame 180 mm / 278 mm 3 rails Sash 69 mm

Polyamide Strip Length

Frame 40 mm

Sash 18 / 32 mm

Profile Thickness

Door 2.0 mm

Glazing

Max. 56 mm, Min. 36 mm

Maximum Sash Dimensions

Width (L) 4000 mm, Height (H) 4000 mm *Glazed surface 14 m²

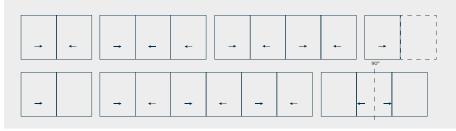
Maximum Sash Weight

400 kg Manual

700 Kg Motorized

Consult maximum weight and dimensions according to typologies

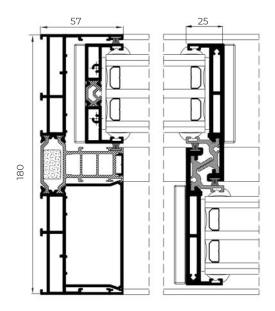




Sliding

Possibility of 1, 2, 3 or 4 rails Possibility of interior and exterior corner sash at 90° without mullion Pocket possibility





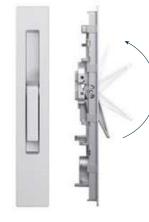






Possibility of **embedding the bottom profile and integrate it within the floor finish** (pallet, pavement, ceramic...), achieving a transition without any obsta- cle between the interior and exterior of the room.





SECURITY HARDWARE

FLUSH SECURITY HARDWARE

MAXIMUM SECURITY

Locking system with internal and external key. Embedding of the hardware into the profile with the same minimalist aesthetic.

Possibility of powder coating in any color to provide uniformity to the ensemble.

POSSIBILITIES





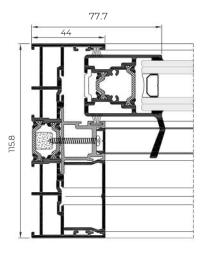


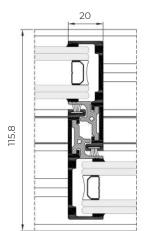
COR VISION PLUS

COR VISION

Thermally broken minimalist sliding system that provides maximum luminosity with a minimal aluminium interlock profile. It has an elegant design only 20 mm sightline and offers the possibility of an inlaid closing system and of hiding the frame along the perimeter.

Possibility of locking system in the interlock, thus allowing the concealment of the sashes in the frame from a frontal view. Possibility of embedded locking system which facilitates the sashes crossing.





FEATURES		
Transmittance		Uw ≥ 1.3 (W/m²K)
Acoustic insulation	((()	Rw up to 41 dB
Air permeability	#	Class 4
Water tightness	*	Class 7A
Wind resistance	-	Class C5



Sightlines Frame 116 mm / 182 mm 3 rails Sash 37 mm Polyamide Strip Length 16 / 24 mm Profile Thickness Door 1.7 mm Glazing Max. 30 mm, Min. 26 mm Maximum Sash Dimensions Width (L) 2500 mm, Height (H) 3000 mm Maximum Sash Weight 320 Kg Consult maximum weight and dimensions according to typologies

POSSIBILITIES



OPENING POSSIBILITIES



Sliding Possibility of 1, 2 or 3 rails Possibility of interior and exterior corner at 90° without mullion Pocket possibility

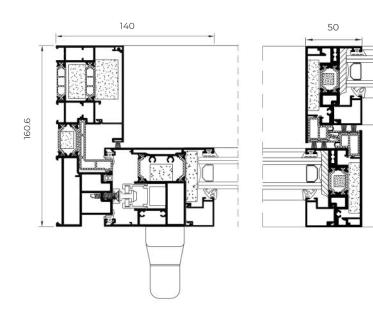


COR VISION





Ideal solution to close large spans, offering excellent thermal (Uw from 0.9 W/m²K) and acoustic (Rw up to 43 dB) performance along with a modern design with straight aesthetics in the sashes and glazing beads. It includes a hardware system that slightly elevates the sash when the handle is operated, facilitating its movement in the opening and closing motions, even in the case of sashes with large dimensions and weight. Possibility of a reduced interlock sightline of 50 mm.



FEATURES		
Transmittance		Uw ≥ 0.9 (W/m²K)
Acoustic insulation		Rw up to 43 dB
Air permeability	×	Class 4
Water tightness	*	Class 9A
Wind resistance	ŧ	Class C5



POSSIBILITIES





Consult maximum weight and dimensions according to typologies

OPENING POSSIBILITIES

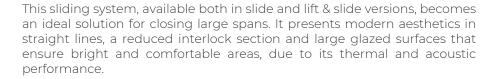


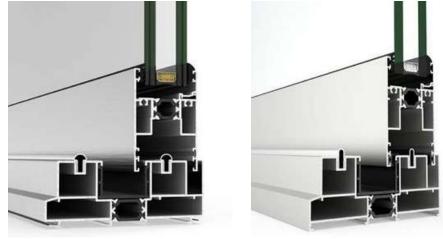
Lift & Slide 1 rail (sash + fixed light), 2 and 3 rails Possibility of 90° opening without mullion

54 Reference test 4.0 x 2.4 m / 2 sashes



Lift & Slide / Standard Slide





Standard Slide

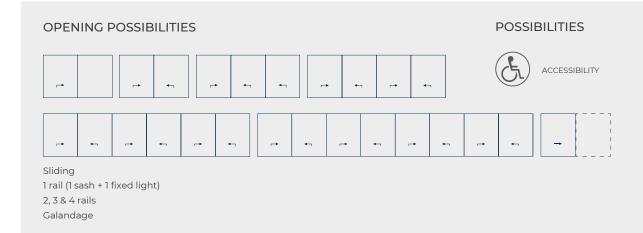


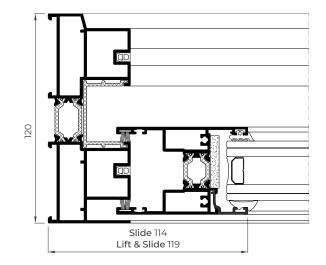
FEATURES

Transmittance		$UW \ge 1,1 (W/m^2K)$
Acoustic insulation	())	Rw up to 40 dB
Air permeability		Class 3* / 4**
Water tightness	*	Class 7A
Wind resistance	(all all all all all all all all all all	Class C5* / C2**
Security test	PAS24	Passed

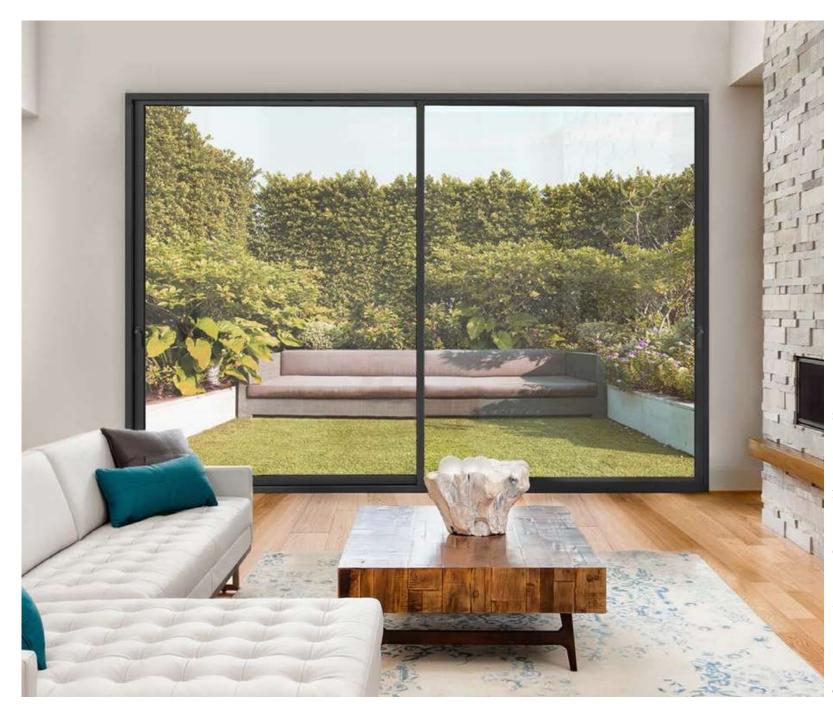
* Reference slide test 1,8 x 2,2 m / 2 sashes ** Reference lift & slide test 4,0 x 2,50 m / 2 sashes

Security test: Reference test 2,40 x 2,40 m / 2 sashes









Sightlines Frame 115 and 120 mm, 185 mm 3 rails Sash 50 mm Polyamide Strip Length 20-25 mm Profile Thickness Balcony 1.5 mm Glazing Max. 36 mm, Min. 26 mm Maximum Sash Dimensions Width (L) 2500 mm, Height (H) 3000 mm Maximum Sash Weight Slide 280 Kg Lift & Slide 300 Kg

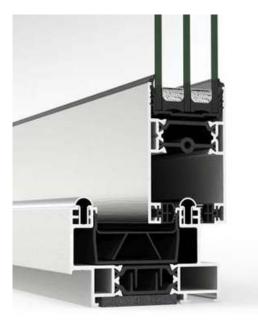
4700 SLIDING



Sliding

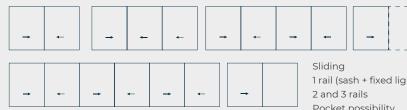


Standard sliding system with hinged features. Offers great thermal and acoustic performance favoured by a glazing capacity of up to 36 mm and a thermal break zone of 34 mm. It has a interlock section of 35 mm and straight lines, allowing the sashes to cross over thanks to the integrated handle with multilock system.





OPENING POSSIBILITIES

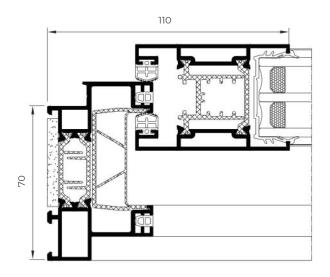


1 rail (sash + fixed light) 2 and 3 rails Pocket possibility Possibility of 90° opening without mullion

POSSIBILITIES







FEATURES

Transmittance		
		Uw ≥ 1.2 (W/m²K)
Acoustic insulation	((()	Rw up to 40 dB
Air permeability		Class 4
Water tightness	*	Class 7A
Wind resistance	-	Class C5

Reference test 1.80 x 2.20 m / 2 sashes CSTB Laboratory DTA Certification



Sightlines

Frame 60, 70, 89, 120, 125, 130 mm 126, 145 mm 3 rails 201 mm 4 rails Sash 48 mm **Polyamide Strip Length** 34 mm **Profile Thickness** Window 1,6 mm **Glazing** Max. 36 mm, Min. 24 mm **Maximum Sash Dimensions** Width (L) 2200 mm Height (H) 3000 mm **Maximum Sash Weight** 240 kg

Consult maximum weight and dimensions according to typologies

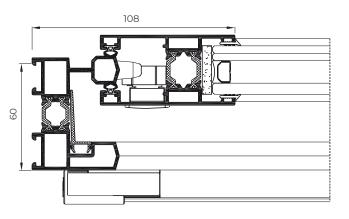


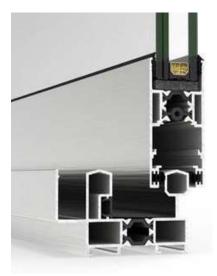
Sliding



Standard sliding system with great versatility and straight or curved aesthetics, 45° or 90° sash encounters and various frames according to each configuration. The 45° and 90° sash encounter version allows the total opening of the span with the pocket possibility solution, completely concealing the sashes in the masonry wall's chamber. Furthermore, this version allows the integration of the solar protection Tamiz system on the same frame.

FEATURES		
Transmittance		Uw ≥ 1.5 (W/m²K)
Acoustic insulation	■ ())	Rw up to 39 dB
Air permeability		Class 3
Water tightness	*	Class 7A
Wind resistance	-	Class C5





Reference test 1.20 x 1.20 m / 2 sashes

Sightlines

Frame 60 / 65 / 77 / 80 mm 106 / 126 mm 3 rails Sash 33 / 37 mm **Polyamide Strip Length** From 14.6 - 20 mm **Profile Thickness** Window 1.5 mm **Glazing** Max. 26 mm, Min. 9 mm

Maximum Sash Dimensions

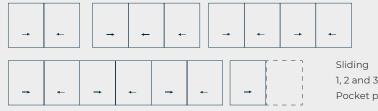
Width (L) 2200 mm Height (H) 2600 mm **Maximum Sash Weight** 100 Kg 45° sash encounter 200 Kg 90° sash encounter

Aesthetic possibilities:

Sash: Straight or curved Bead: Straight or curved

Consult maximum weight and dimensions according to typologies

OPENING POSSIBILITIES



Sliding 1, 2 and 3 rails Pocket possibility 1 and 2 rails



4200 SLIDING

BARS Applied bars

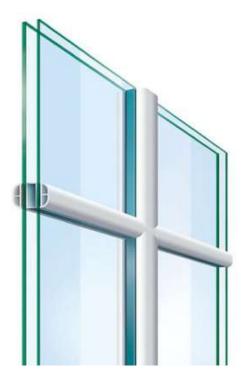
The applied bars are glued to the outer surface of the glass and have the effect of accentuating the chosen pattern and integrating into the overall appearance of the facade.

The glass is divided according to the pattern of the bar on the outside using the Warm Edge or aluminium spacer.

INTERNAL BARS

The integrated bars, used as a decorative element, are placed between the two panes of the double pane glazing package, which allows easy maintenance of the window.

They are both a decorative part of the architectural style for renovations and a tool to satisfy every taste for new construction.





STYLISH handle

The new **Stylish handle** presents a simple design, with more accentuated lines and stylish aesthetics for dressing in style the CORTIZO windows, balconies and doors.





Presenting of the news

DELTA MULTIPOINT PULL handle with fixed opening or left or right. Compatible with aluminum sliding systems (sliding doors 2000, 4200, 4700, 4900).

WINDOW HANDLE

OFFSET HANDLE

HANDLE WITH KEY

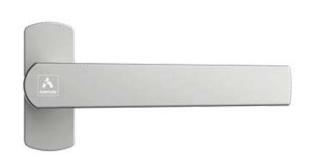


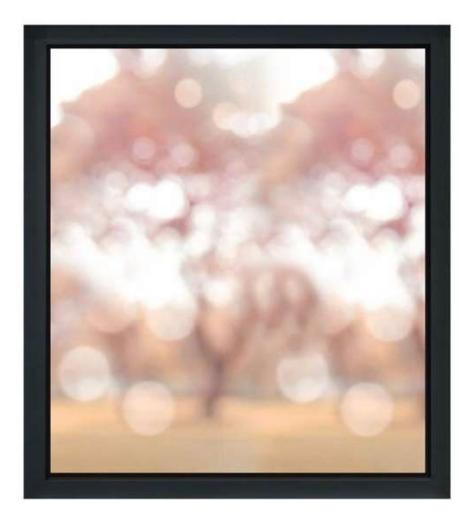


DOOR HANDLE

Design with slim backplate Version for external, internal and PVC assembly Available in window and door version Quick setting-up Available in the full powder-coating range









ARCH INVISIBLE HANDLE

Exclusive handle integrated within the sash, imperceptible from the frontal view

Compatible with the COR 80 Hidden Sash and COR 70 Hidden Sash systems Ergonomics, robustness and easy handling in the opening and closing operations Ideal for combination with concealed hinges, achieving a totally clean aesthetic Dimensions 27.5 x 234 mm



Avant-garde design without escutcheon Suitable for all Euro-Groove hinged series and PVC series Specific transmission box Possibility of painting in the same colour as the carpentry Spindle: 8 mm Dimensions: 32 x 148 mm



CORTIZO HANDLE

Reduced escutcheon design Adaptability to transmission box and multilock system Concealed hardware Spindle: 7 mm Dimensions 32 x 148 mm



CORTIZO DOOR HANDLE

Reduced escutcheon design Opening to the right and to the left versions Suitable for exterior and interior assembly Available in door version Concealed hardware Spindle: 8 mm Dimensions 32 x 148 mm





INOX HANDLE

Reduced escutcheon design Adaptability to transmission box and multilock system Available in door version Concealed hardware Spindle: 7 mm Dimensions: 31 x 135 mm







SIRIUS Handle

Curved aesthetics Design with a reduced escutcheon Suitable for multipoint lock Available for windows or doors Spindle: 7 mm Dimensions: 32 x 155 mm CORTIZO CREMONE WITH KEY

Maximum security 3 locking positions: full lock, tilt only and tilt and turn Dimensions: 33 x 190 mm **REMOVABLE** CORTIZO CREMONE

Easy assembly Handle clipped on the escutcheon Possibility of removing the handle in any position Maximum durability Dimensions: 33 x 173 mm **ART INFINITY** PULL HANDLE

Suitable for high traffic and large dimension doors Straight or curved design Dimensions: 450 x 50 mm

LIFT & SLIDE Handle

Avant-garde aesthetic Exclusive to systems 4600 and 4500 Lift & Slide Versions with or without key Multiple combinations: handle / handle handle / finger pull Tested to 25,000 cycles Spindle of 10 mm Dimensions: 37 x 290 mm











CORTIZO OFFSET HANDLE

Handle specially designed for sliding systems Reduced escutcheon Suitable for exterior and interior Spindle: 7 mm

Dimensions: 32 x 158 mm

VISION SECURITY LOCK

Key lockable

Integration of the locking system in the profile with minimalist aesthetics Up to 4 locking points Dimensions: 36 x 260 mm

FLUSH VISION SECURITY LOCK

Key lockable Lock flush with the profile Up to 4 locking points Dimensions: 36 x 260 mm

VISION SECURITY MINI LOCK

Straight aesthetics in line with the minimalist style of the system Dimensions: 26 x 92 mm

VISION CENTRAL LOCK

Suitable for the COR VISION and COR VISION PLUS systems Integrated in the interlock profile It allows to conceal the lateral sashes Dimensions: 450 x 50 mm

Color options for Aluminium joinery





Standard colors





PE8014TD

Forster Profile Systems in steel and stainless steel



PROFILE SYSTEMS IN STEEL

WITH THERMAL BARRIER

forster

In a world shaped by rapid technological advancements and societal shifts, the demand for innovative building solutions remains everpresent. Forster Profile Systems recognizes this evolving landscape and stands ready to meet the challenges head-on. Their expertise in steel construction allows them to seamlessly integrate functional and visually captivating designs, catering to the dynamic needs of modern society.

At the core of Forster's philosophy lies a commitment to longevity and sustainability. They view building with steel as a means of creating structures that serve not only the present but also future generations. With a keen awareness of environmental concerns and a deep respect for natural resources, Forster Profile Systems approaches every project with a dedication to eco-friendly practices and responsible stewardship.



PROFILE SYSTEMS IN STEEL

FORSTER UNICO XS WINDOW

Material variants Bright steel Steel zinc magnesium

Face widths

Window sash and overlapping casement from 55 mm Fixed glazing from 23 mm

Dimensions

Max. leaf width: 1440 mm Max. leaf height: 2440 mm Fixed glazing (W×H): unlimited × max. 3000 mm

Fittings Attached and concealed flush fittings Historic reproduction fittings Max. leaf weight 100 kg, 150 kg on request

System features

Design variants: Turn/tilt and turn/tilt only windows, single/double leaf, with optional sidelight and fanlight Fixed glazing Optionally as a French window Structural depth: Leaf profile 88 mm, frame profile 70 mm, max. filling element thickness 60 mm Glazing beads in aluminium and steel Wet and dry glazing Surface treatment with hot-dip galvanizing approved

Performance characteristics*

CE/UKCA marking according to EN 14351-1 Thermal insulation: U value up to 0.8 W/(m2W.K) Mechanical load: Class 2 according to EN 12400 (10,000 cycles EN 1191) Burglary resistance: RC2 according to EN 1627 Resistance to wind loads: Class B5/C5 according to EN 12210 Watertightness: Class E1050 according to EN 12208 Air permeability: Class 4 according to EN 12207 Impact resistance: Class 4 according to EN 13049 Operating forces: Class 2 according to EN 13115 Sound insulation up to Rw = 47 dB according to EN ISO 140-3

* Take note of the country-specific approvals and requirements

Material variants

Bright steel

Steel zinc magnesium

Face widths

Window sash with frame from 110 mm Fixed glazing from 50 mm

Dimensions

Top-hung window: Max. leaf width: 2378 mm Max. leaf height: 2378 mm

Max. surface: 1.85 m2 Turning window: Max. leaf width: 778 mm Max. leaf height: 1528 mm

Fixed glazing (W×H): unlimited × max. 3000 mm

Fittings

Attached and concealed flush fittings Historic reproduction fittings Max. leaf weight 180 kg

System features

Design variants: Single leaf, with optional sidelight and fanlight Fixed glazing Structural depth: Leaf profile 70 mm, frame profile 70 mm, max. filling element thickness 42 mm Glazing beads in aluminium and steel Wet and dry glazing Surface treatment with hot-dip galvanizing approved

Performance characteristics*

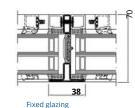
CE/UKCA marking according to EN 14351-1 Thermal insulation: U2f value up to 1.2 W/(m.K) Resistance to wind loads: Class B4/C4 according to EN 12210 Watertightness: Class E1350 according to EN 12208 Air permeability: Class 4 according to EN 12207 Operating forces: Class 1 according to EN 13115 Sound insulation up to Rw = 34 dB according to EN ISO 140-3







Fixed glazing





Window sash and fixed glazing





PROFILE SYSTEMS IN STEEL

FORSTER UNICO XS





PROFILE SYSTEMS IN STEEL DOOR SYSTEM FORSTER UNICO

Technical specifications

Material variants Steel zinc magnesium

Face widths Door leaf with frame from 65 mm Fixed glazing from 23 mm

Dimensions Inside width single-leaf (W×H): max. 1200 × 2400 mm Inside width double-leaf (W×H): max. 2400 × 2400 mm

Fittings

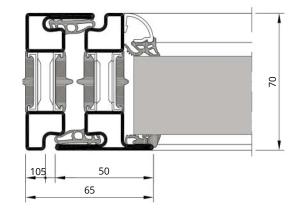
Attached fittings Max. leaf weight 160 kg

System features

Design variants: Side-hung door with single/double leaf, with optional sidelight and fanlight Fixed glazing
Insulated door threshold
Structural depth 70 mm
Max. filling element thickness 42 mm
Glazing beads in aluminium and steel
Wet and dry glazing

Performance characteristics*

CE/UKCA marking according to EN 14351-1 Thermal insulation U2D up to 1.3 W/(m.K) Durability of self-closing properties: Class 6 according to EN 12400 (tested up to 200,000 cycles according to EN 1191) Doors for escape and emergency routes (partial and full panic) according to EN 179 and EN 1125 Resistance to wind loads: Class B2/C2 according to EN 12210 Watertightness: Class 3A according to EN 12208 Air permeability: Class 3 according to EN 12207 Operating forces: Class 3 according to EN 12217 Barrier-free according to DIN 18040 Sound insulation up to Rw = 46 dB according to EN ISO 140-3

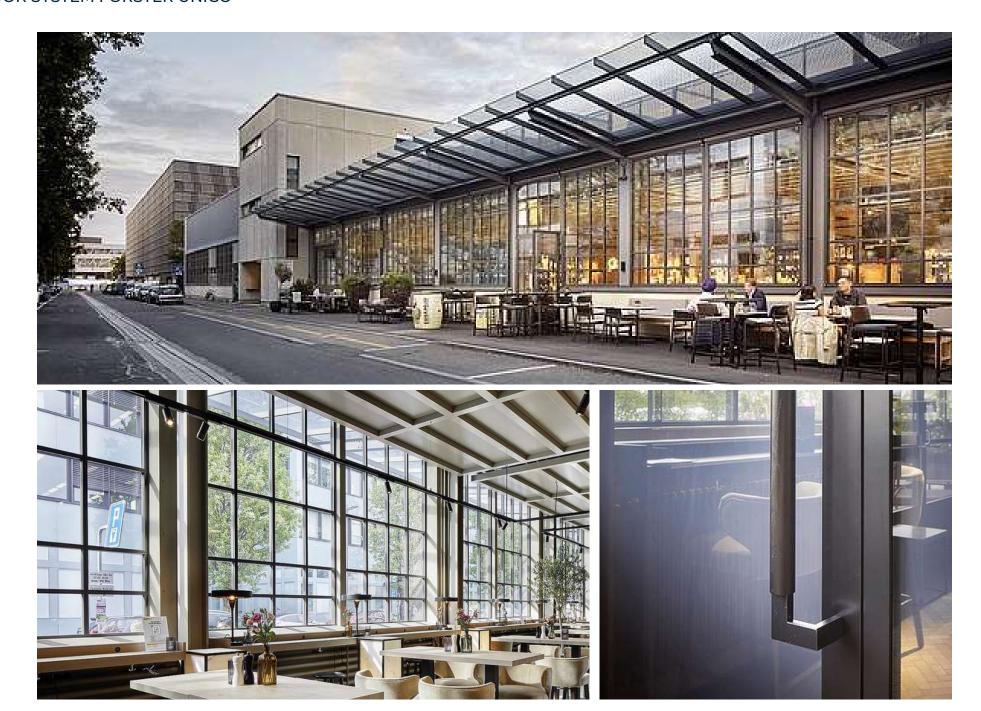


Door leaf frame



PROFILE SYSTEMS IN STEEL DOOR SYSTEM FORSTER UNICO

forster



PVC Joinery





A 84

Passivhaus HI

Hinged system with 84 mm of frame depth and 6 interior chambers that offers the best thermal performance in the market, with a transmittance value Uw of only 0.66 W/m²K. This series has been certified by the Passivhaus Institute for cool- temperate category (cold and temperate weather), becoming an ideal solution for low energy consumption buildings. It includes special insulating foams in the sash and frame, disposing of the steel reinforcement to increase transmittance. The glass itself acts as a structural element of the window, fixed to the profile by a special adhesive tape.



POSSIBILITIES

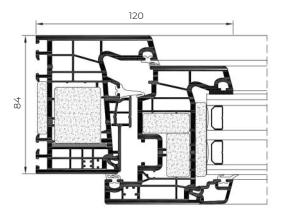




Sightlines

Frame 84 mm, Sash 84 mm Glazing Max. 56 mm, Min. 36 mm Maximum Sash Dimensions Window: Width (L) 450-1300 mm Height (H) 450-2200 mm Balcony: Width (L) 450-1300 mm Height (H) 600-2200 mm Maximum Sash Weight 100 kg

Consult maximum weight and dimensions according to typologies



FEATURES		
Transmittance	*	Uw ≥ 0.66 (W/m²K)
Acoustic insulation	◄)))	Rw up to 46 dB
Air permeability	ŧ	Class 4
Water tightness	* 柱〕	Class E1500
Wind resistance	-	Class C5

OPENING POSSIBILITIES

Sash: Straight / Bead: Straight or curved

Aesthetic possibilities:



Inward Opening

Side hung Tilt & turn Bottom hung

Reference test 1.23 x 1.48 m / 2 sashes



Passivhaus 1.0 Thermally broken / Passivhaus 1.0



Certified for the warm-temperate category (warm-temperate weather), it offers a transmittance value Uw of 0.74 W/m²K, thanks to the use of an internal reinforcement with thermal break.

FEATURES		
Transmittance	\$	Jw ≥ 0.74 (W/m²K)
Acoustic insulation	()))	Rw up to 46 dB
Air permeability		Class 4
Water tightness	*哲 (Class E1500
Wind resistance		Class C5

POSSIBILITIES



CONCEALED HINGES

OPENING POSSIBILITIES



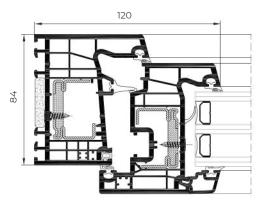
Inward Opening

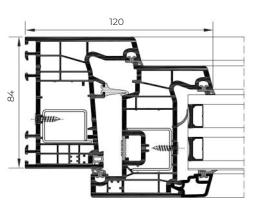
Side hung Tilt & turn Tilt & parallel Bottom hung

Reference test 1.23 x 1.48 m / 2 sashes

Aesthetic possibilities:

Sash: Straight Bead: Straight or curved







Sightlines Frame 84 mm, Sash 84 mm

Glazing

Max. 54 mm, Min. 18 mm Maximum Sash Dimensions Window:

Passivhaus 1.0 Thermally broken: Width (L) 450-1400 mm Passivhaus 1.0 reduced reinforcement: Width (L) 450-1300 mm

Passivhaus 1.0 Thermally broken Passivhaus 1.0 reduced reinforcement: Height (H) 450-2200 mm

Balcony passivhaus 1.0: Width (L) 450-1400 mm Height (H) 600-2400 mm Maximum Sash Weight 130 kg



Hinged

Hinged system with a 84 mm frame depth and 6 interior chambers with excellent thermal performance, Uw from 0.79 W/m²K, and a great acoustic performance thanks to its glazing capacity of up to 54 mm.

FEATURES		
Transmittance		Uw ≥ 0.79 (W/m²K)
Acoustic insulation	())	Rw up to 46 dB
Air permeability		Class 4
Water tightness	*	Class E1500
Wind resistance		Class C5

Reference test 1.23 x 1.48 m / 2 sashes



OPENING POSSIBILITIES



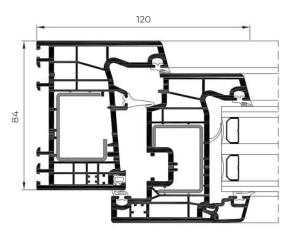


Inward Opening O

Side hung Tilt & turn Tilt & parallel Bottom hung Outward Opening Side hung (Door)

Side hung (L



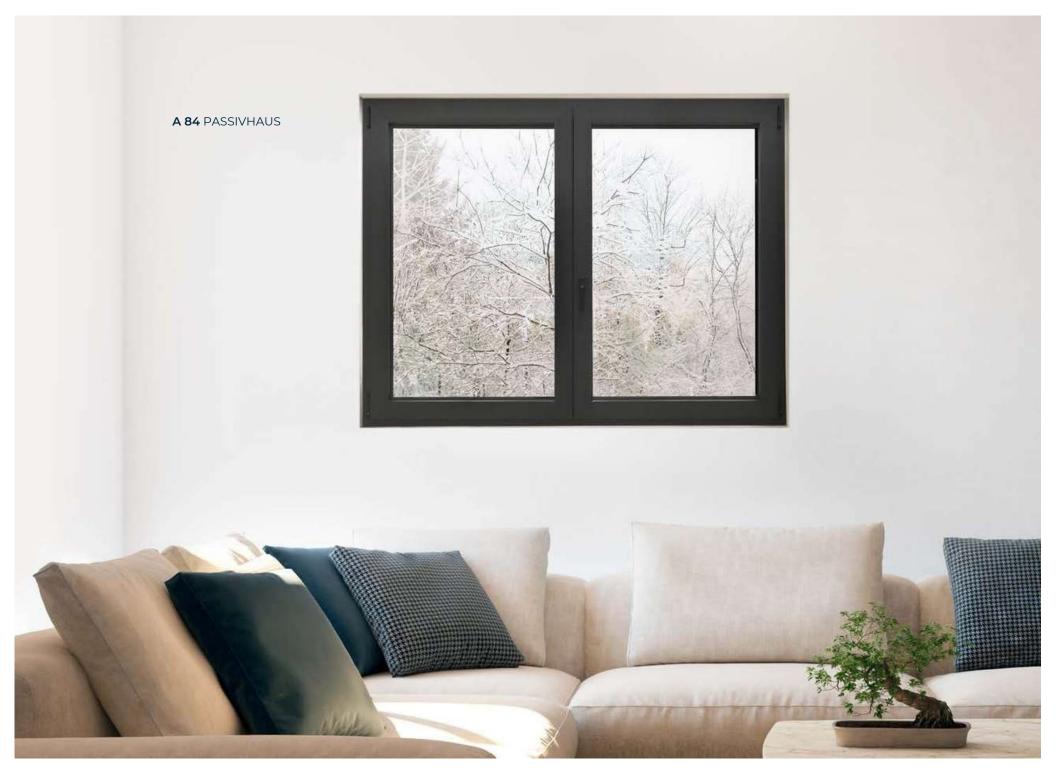


Sightlines Frame 84 mm

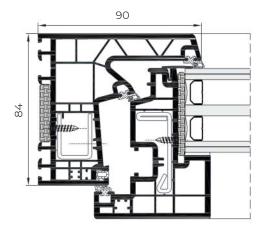
Sash 84 mm Glazing Max. 54 mm, Min. 4 mm **Maximum Sash Dimensions** Window: Width (L) 450-1400 mm Height (H) 450-2450mm Balcony: Width (L) 450-1400 mm Height (H) 600-2500 mm Door: Width (L) 700-1300 mm Height (H) 600-2500 mm Maximum Sash Weight 130 Kg Window / Balcony 160 Kg Door Aesthetic possibilities: Sash: Straight Bead: Straight or curved



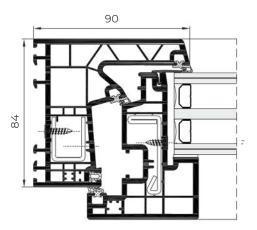
Consult maximum weight and dimensions according to typologies







A 84 Hidden Sash Passivhausvhaus



A 84 Hidden Sash

A 84

Hidden Sash Passivhaus / Hidden Sash

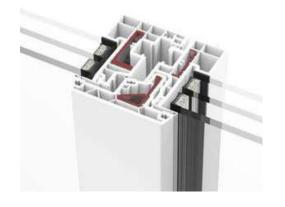
Minimalist window with a lateral sightline of only 90 mm and possibility of reduced central sightline of the same measure. This system with 84 mm of frame depth and 6 interior chambers combines elegant design with excellent thermal performance, in the Passivhaus version certified for the warm- temperate category (Uw from 71 W/m²K) as well as in the standard version (Uw from 0.71 W/m²K).





A 84 Hidden Sash Passivhaus

A 84 Hidden Sash



Possibility of 90 mm interlock section



Sightlines Frame 84 mm. Sash 84 mm Glazing Max. 46.5 mm, Min. 32 mm Glazing: 46.5 mm (Passivhaus) Maximum Sash Dimensions Width (L) 400-1400 mm Height (H) 450-2500 mm Maximum Sash Weight 130 Kg Window / Balcony Consult maximum weight and dimensions

according to typologies

FEATURES

Transmittance Passivhaus		Uw ≥ 0.71 (W/m²K)
Transmittance Standard		Uw ≥ 0.74 (W/m²K)
Acoustic insulation	())	Rw up to 46 dB
Air permeability		Class 4
Water tightness		Class E2250
Wind resistance	-	Class C5

POSSIBILITIES

1









CONCEALED DRAINAGE (A 84 HIDDEN SASH)

OPENING POSSIBILITIES



Inward Opening

Side hung Tilt & turn Bottom hung







Hinged system with 70 mm of frame depth with a maximum glazing capacity of 42 mm. The 5 interior chambers in the frame and sash allows for great energy efficiency with a transmittance value Uw from 0.9 W/m2K. Possibility of straight, curved or chamfered sashes.





Chamfered Sash



Straight Sash



Curved Sash

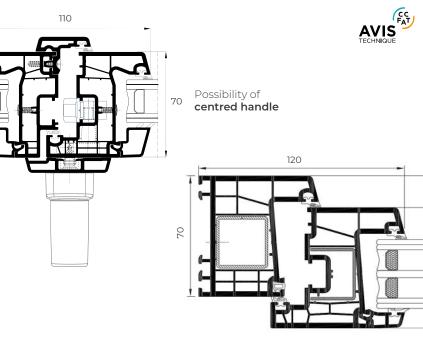
Sightlines

Frame 70 mm Sash 70 / 80 mm Glazing

Max. 42 mm / Min. 4 mm

Maximum Sash Dimensions

Window: Width (L) 360 - 1300 mm Height (H) 450 - 2300 mm Balcony: Width (L) 360 - 1300 mm Height (H) 600 - 2400 mm Door: Width (L) 700 - 1300 mm Height (H) 600 - 2500 mm

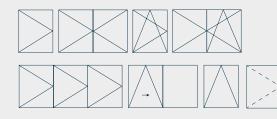


Maximum Sash Weight
130 kg Window
130 Kg Balcony

160 Kg Door

Aesthetic possibilities

Sash: Straight, curved or chamfered Bead: Straight or curved



Outward Opening POSSIBILITIES

Side hung (Door)

Inward Opening Side hung

Tilt & turn Bi-fold Tilt & parallel

Bottom hung



CONCEALED DRAINAGE

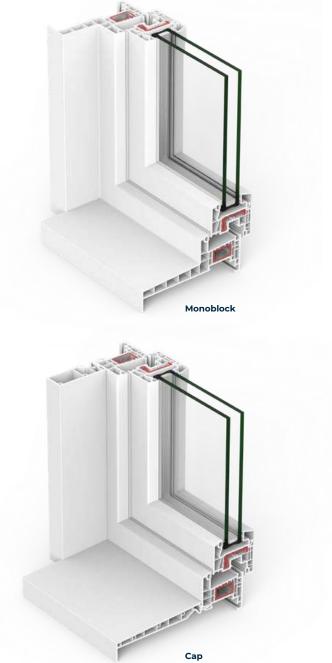
FEATURES	
Transmittance	
Acoustic insulation	
Air permeability	(#
Water tightness	_ *

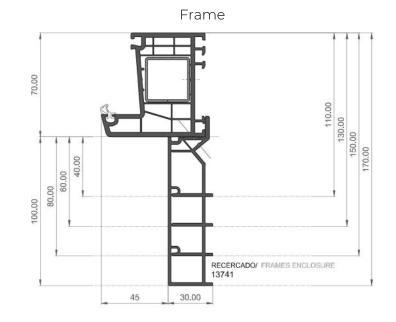
Consult maximum weight and dimensions according to typologies

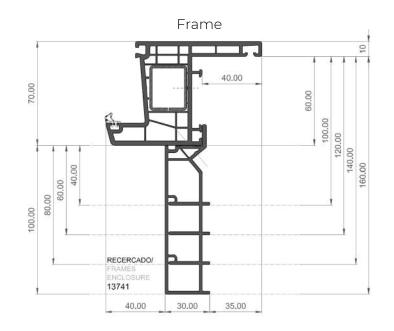
FEATURES		
Transmittance		Uw ≥ 0.9 (W/m²K)
Acoustic insulation	())	Rw up to 46 dB
Air permeability		Class 4
Water tightness	*	Class E1800
Wind resistance		Class C5

Reference test 1.23 x 1.48 m / 2 sashes CSTB Laboratory DTA Certification









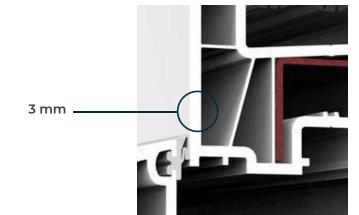
CORTIZO QUALITY PVC

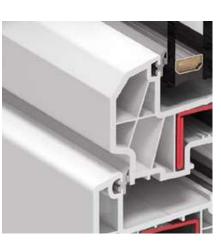
Class A

Main walls thickness: 3 mm

Class S Climatic zones

7 parts of titanium dioxide. Maximum resistance to solar incidence







Class II Impact resistance Maximum profile hardness

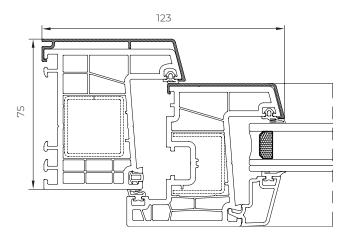


A 70 HINGED

ALCOVER

A CORTIZO

Mixed window system that multiplies the aesthetic possibilities of the PVC A 70 series, covering the external face of the window with an aluminium profile clipped on the frame and sash, with 45° or 90° profile encounters. This solution, ideal for rehabilitation, allows the combination of the excellent performance of PVC systems and the great variety of powder-coated and anodized finishes aluminium offers.



OPENING POSSIBILITIES



Inward opening Side hung

Tilt & turn Bottom hung

FEATURES

Transmittance		Uw ≥ 0.9 (W/m²K)
Acoustic insulation	◄)))	Rw up to 46 dB
Air permeability		Class 4
Water tightness	*	Class E1800
Wind resistance		Class C5

Reference test 1.23 x 1.48 m / 2 sashes

POSSIBILITIES







Alcover 45° profile encounters

Alcover 90° profile encounters

Sightlines

Frame 75 mm, Sash 71 mm Glazing Max. 42 mm, Min. 18 mm Maximum Sash Dimensions Window: Width (L) 360 - 1300 mm Height (H) 450 - 2300 mm Balcony: Width (L) 360 - 1300 mm Height (H) 600 - 2400 mm

130 kg Window 130 Kg Balcony

Consult maximum weight and dimensions according to typologies

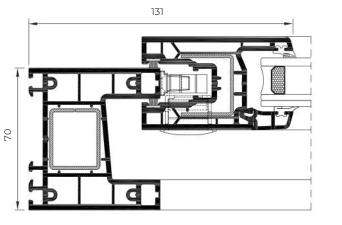




C70

Sliding window and balcony system with 70 mm of frame depth and optimal thermal and acoustic performances. Possibility of minimalist sash with only 30 mm of interlock profile.

FEATURES		
Transmittance		Uw ≥ 1.3 (W/m²K)
Acoustic insulation	())	Rw up to 38 dB
Air permeability		Class 4
Water tightness	•	Class 7A
Wind resistance		Class C5



Reference test 1.23 x 1.48 m / 2 sashes

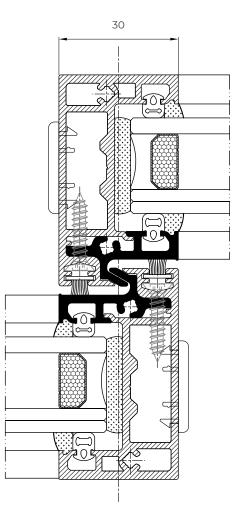




Sightlines

Frame 70 mm, Sash 46 mm Glazing Max. 26 mm, Min. 4 mm Maximum Sash Dimensions Window: Width (L) 1400 mm Height (H) 1800 mm Balcony: Width (L) 1800 mm Height (H) 2600 mm Maximum Sash Weight 70 kg Window 200 Kg Balcony





SLIDING C 70

SYNEGO



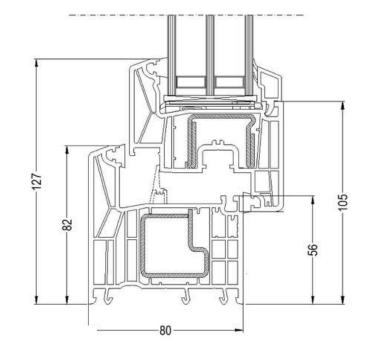
SYNEGO from REHAU is labeled as an EcoPuls product. This means that the window profile contains more than 40% recycled materials. REHAU represents this positive ecological footprint. Enjoy the comfort of your windows and the pleasant feeling of having chosen a sustainably manufactured product.

FEATURES		
Transmittance	*	Uw ≥ 0,9 (W/m²K)
Acoustic insulation	■)))	Rw up to 37 dB
Air permeability	#	Class 4
Water tightness	*	Class 9A
Wind resistance		Class B5

Essai de référence AEV 1,23 x 1,48 m / 2 vantaux

POSSIBILITIES

SECURITY HARDWARE



Constructive depth:

80mm

Glazing Max. 51mm

SYNEGO

Alu covered

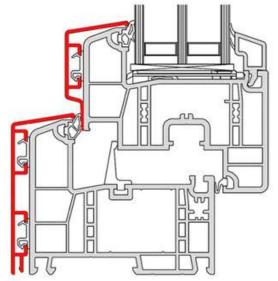
SYNEGO from REHAU is labeled as an EcoPuls product. This means that the window profile contains more than 40% recycled materials. REHAU represents this positive ecological footprint. Enjoy the comfort of your windows and the pleasant feeling of having chosen a sustainably manufactured product.

FEATURES		
Transmittance	*	Uw ≥ 0,9 (W/m²K)
Acoustic insulation	■)))	Rw up to 37 dB
Air permeability	*	Class 4
Water tightness		Class 9A
Wind resistance	(Class B5

Essai de référence AEV 1,23 x 1,48 m / 2 vantaux







Constructive depth:

80mm

Glazing Max. 51mm

POSSIBILITIES

SECURITY HARDWARE

PVC DOOR HANDLES









HANDLE WITCH SHIELD DG58

HANDLE WITH SHIELD AND BUTTON DG58





PVC WINDOW HANDLES



HANDLE GREENTEQ FG10 WITH KEY

HANDLE GREENTEQ FG10 WITH BUTTON



HANDLE

HOPPE TOULON

SECUFORTE



HANDLE HOPPE STUTTGART

HANDLE

ROTO SWING

Color options for PVC joinery

White	Golden Qak Wood	Walnut Wood	Foliated White	Cream White	Bronze	Gold	Metallo Coher	Aluminium Silver
Standard c								
			Metallic Anthracite	Anthracte Grey	PainGrey	Matt Grey	Agate Grey	Light Grey
Ultra Matt White	Ultra Matt Quartz	Ultra Matt Brown	Silver Grey	Wine Red	Bright Blue	Steel Blue	Pine Green	Moss Green
Mait Woodes Oak	Dark Kitami	Toffee Woodec Oak	Matte Green	Dark Brown	Light Brown	Matte Brown	Light Gak Wood	Dark Oak Wood
mai, woulde, bak	Dark Nitariti	Horee House Cak						
			Rustic Cak Wood	Newcastle Oak Wood	Fir Tree	Mahogany	Sapely	Walnut Walnuss Wood
Ultra Matt Anthracite Grey	Ultra Matt Black	ors	Grained Pine Wood	Light Sheffield	Dark Sheffield	Mart Black	Special co	lors
			Granieu Pisie Wuod	mBist sciencen	LINE OF BUILDING			

Wood Joinery



TERMO 92

Wooden profile from various essences with a section of 92/80mm, triple-layered (three layers of wood);

The glass is usually made up of an insulated glass package 24 mm bipan; The carpentry is equipped with Maco hardware (depending on the type of opening); A teardrop made of brown aluminum is installed. It is provided with drainage holes and on profiled rubber ends, for the direction of the water drop;

The wood essences used for the construction of the windows are the following: Spruce, Pine, Larch, Oak and Meranti;

The wood is treated in its own thermal chamber, and after processing it is treated with special impregnants;

The carpentry is equipped with special gaskets for each profile;

The sealing between the glass and the wooden profile is made with special silicone, of various chromatic shades, by moistening, to ensure total perimeter sealing; The finishes are of high quality and resistance, having calculated the degree of glossiness, elasticity, as well as weather resistance;

FEATURES		
Transmittance		Uw ≥ 0,8 (W/m²K)
Acoustic insulation	◄)))	Rw up to 42 dB



TERMO 78

Wooden profile from various essences with a section of 78/80mm, triple-layered (three layers of wood);

The glass is usually made up of an insulated glass package 24 mm bipan; The carpentry is equipped with Maco hardware (depending on the type of opening); A teardrop made of brown aluminum is installed. It is provided with drainage holes and on profiled rubber ends, for the direction of the water drop;

The wood essences used for the construction of the windows are the following: Spruce, Pine, Larch, Oak and Meranti;

The wood is treated in its own thermal chamber, and after processing it is treated with special impregnants;

The carpentry is equipped with special gaskets for each profile;

The sealing between the glass and the wooden profile is made with special silicone, of various chromatic shades, by moistening, to ensure total perimeter sealing; The finishes are of high quality and resistance, having calculated the degree of glossiness, elasticity, as well as weather resistance;

FEATURES		
Transmittance		Uw ≥ 0,9 (W/m²K)
Acoustic insulation	■)))	Rw up to 41 dB



TERMO 68

Wooden profile made of various essences with a section of 68/80mm, triple-layered (three layers of wood);

The glass is usually made up of an insulated glass package 24 mm bipan; The carpentry is equipped with Maco hardware (depending on the type of opening); A teardrop made of brown aluminum is installed. It is provided with drainage holes and on profiled rubber ends, for the direction of the water drop;

The wood essences used for the construction of the windows are the following: Spruce, Pine, Larch, Oak and Meranti;

The wood is treated in its own thermal chamber, and after processing it is treated with special impregnants;

The carpentry is equipped with special gaskets for each profile;

The sealing between the glass and the wooden profile is made with special silicone, of various chromatic shades, by moistening, to ensure total perimeter sealing; The finishes are of high quality and resistance, having calculated the degree of glossiness, elasticity, as well as weather resistance;

FEATURES		
Transmittance		Uw ≥ 0,8 (W/m²K)
Acoustic insulation	◄)))	Rw up to 41 dB





SHADING SYSTEMS



EXTERIOR BLINDS



Exterior blinds, together with roller shutters, compared to internal shading technology, offer a higher level of protection against solar radiation due to the reduction of light and heat already present inside.

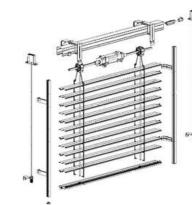
Cetta 80



	Head	Dell	Bottom Rail Slat	C1-4	Side Guidance		Ladder	Textile
	nead	Rall	Bottom Rail	Slat	Steel Wire	Guiding Channel	Ladder	Band
Commercial Name Dimension Material	56×58 Fe	58 × 60 Al	80×13 Al	0,42 x 98 Al	ф 3,2 Fe/PVC	Variants of guiding channels in Chapter "Guides"	68 x 85 PES	6 x 0,28 PES
Color	Standard: Galvanized steel p (Al profil) Other RAL colors s DECORAL*		Standard: anodized aluminium Other RAL colors spraved, DECORAL*		grey black	Basic design - anod- ized Varnished in RAL colors, DECORAL*	gréy black	grey black

Side Guidance Head Rail **Bottom Rail** Slat Ladder **Textile Band** Guiding Channel Wire **Commercial Name** 0,42 x 113 See Chapter 'Guid-56 x 58 58 x 60 Al 93×14 Ø 3,2 Fe/PVC 80 x 9,5 PES 6 x 0,28 PES Dimension (mm) Al ance" for guiding Material channel alternatives Fe AL 1.1 Color Standard: Standard: Standard: anodized grey black grey black grey black galvanized steel plate anodized aluminum natural (Al profil) Other RAL colors sprayed, DECORAL* Other RAL colors Other RAL colors sprayed, DECORAL* sprayed, DECORAL*

*Maximum dimension 4000mm.



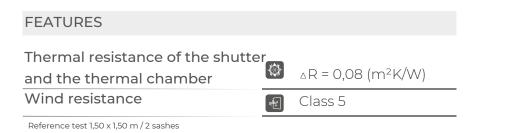


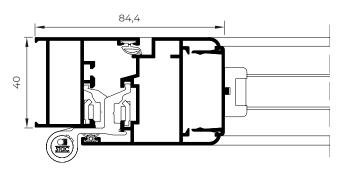


MALLORQUINA



Side hung shutter system with fixed or adjustable louvres





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

OPENING POSSIBILITIES



Side hung of 1, 2, 3 and 4 sashes

Sightlines Frame 40 mm Sash 48 mm Profile Thickness Window 1,3 mm Door 1,4 mm Maximum Sash Weight 75 Kg Maximum Sash Dimensions Width (L) 1500 mm Height (H) 2400 mm

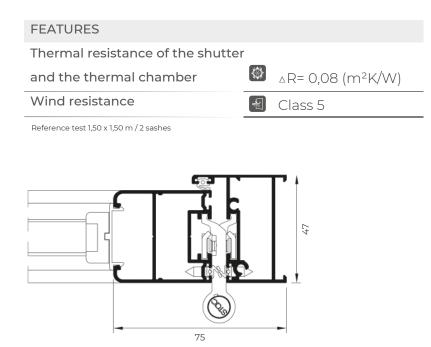


Uw window transmittance Uws transmittance of the window-shutter system





Side hung, sliding or bifold shutter system with fixed or adjustable louvres.



Transmittance

Uw window transmittance Uws transmittance of the window-shutter system

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



Sightlines

Frame 47 mm Sash 40 mm **Profile Thickness** Window 1,3 mm Door 1,5 mm **Maximum Sash W** Side hung 65 kg Bifold 50 kg Sliding 120 kg

Maximum Sash Dimensions Side hung: Width (L) 1600 mm, Height (H) 2500 mm

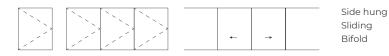
Bifold: Width (L) 700 mm, Height (H) 2500 mm Sliding:

Maximum Sash Weight Width (L) 2000 mm, Height (H) 3500 mm

Closing possibilities

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

OPENING POSSIBILITIES



104



OPENHOUSE FRANGISOLE

Aluminum structure in White, Ivory, Brown colors, Anthracite. Slats in painted aluminum 180.9 mm. Slat orientation from 0 ° to 130 °. winch movement (standard) or motor (optional) Minimum slope for 5% water outflow. Wind resistance class 4. Water discharge inside the legs. Protection from rain, sun and high resistance to atmospheric agents. Possibility to realize modular covers and to close the sides with Tcl. curtains - Wall mount; legs height 230 cm.

Maximum recommended dimensions per module:

- Width 300 cm with a standard plate
- Width 400 cm with a reinforced plate
- Projection 605 cm

For more pergola and awning designs, check out the **Shading Systems Catalog**.

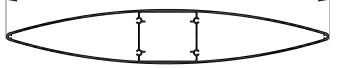




SOLAR PROTECTION LOUVRES

Efficient solution for solar ray incidence control in the building's interior temperature. Solar radiation is absorbed and reflected by these external louvres, facilitating energy efficiency and decreasing the need for artificial refrigeration. In addition, they serve as a decorative element bringing an avant-garde aesthetic to the façade.





Louvre type

Fixed: Regulation 0°, 15°, 30° or 45°. Adjustable: Motorized and manual.

Louvre size	Max recommended length to fixed louvres	Maximum recommended length to adjustable louvres
120 mm	1,8 metres	
145 mm	2,2 metres	1,9 metres
190 mm	2,5 metres	2,4 metres
250 mm	3,0 metres	3,0 metres
300 mm	3,5 metres	3,4 metres
400 mm	4,2 metres	4,0 metres

Depending on project specifications a larger free louvre length will be attainable (Consult)

300 mm	2,00 mm
400 mm	2,50 mm
	C

Profile Thickness

120 mm

145 mm

190 mm

Louvres Thickness

250 mm 1,90 mm

1,25 mm

1,35 mm

1,70 mm



A CORTIZO

11	
	Wind load resis
	Class 6 (max.)
-	Reference test
Ð	Louvres
	120 mm
œ	145 mm
	190 mm
	250 mm
	300 mm
	400 mm
Common and Comm	

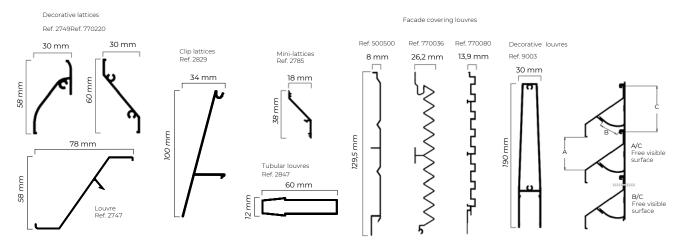
stance . .

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

Test carried out according UNE 1932

LATTICES DECORATIVE LOUVRES

Extruded aluminium slats designed to configure a double skin in external enclosures that allow to sieve the light facilitating air circulation.



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Wind load resistance

Lattice: UNE 13659 Class 6 (max.)

test reference 2.0 metres Mini-lattice: UNE 13659 Class 5 Test reference 1.3 metres Tubular louvres: UNE 13659 Class 6 (max.) Test reference 1.3 metres Test carried out according to -UNE 1932

Louvre type	Max. recommended free length	A/C	B/C
Lattices (Ref. 2747)	2,0 metres	71 %	44
Decorative lattices (Ref. 2749)	1,5 metres	62%	%
Clip lattices (Ref. 2829)	2,0 metres	100%	34%
Mini-lattices (Ref. 2785)	1,3 metres	55%	24%
Tubular louvres (Ref. 2847)	2,0 metres	76%	39%
Decorative louvres (Ref. 9003)	1,0 metres	86%	-
Façade covering louvres (Ref. 500500)	-	-	-
Façade covering louvres (Ref. 770036)	-	-	-
Façade covering louvres (Ref. 770080)	-	-	-







ROLLER SHUTTERS

The **superimposed roller shutters** are made of aluminum with a PVC box of 160mm or 200mm depending on the height; Aluminum slat apron (double-walled lacquered aluminum slats 39, 45, 55 or 77 mm, polyurethane foam filling), standard PVC or

aluminum slides on requestfor aluminum joinery;

Final blade in extruded and lacquered aluminum, equipped with a rubber seal;

The boxes and side slides are protected with an adhesive sheet which can be removed during installation or afterwards;

Types of operation: manual (with strap or crank), wired (with switch), radio(with remote control);

All elements are electrostatic field dyed;

22 MAHOGANY

16 IVORY

The motorization is Somfy of 10, 13, 15, 20 newtons, depending on the dimensions.

02 WHITE

48 GOLDEN OAK

13 GREEN

05 BEIGE

23 ANTHRACITE

19 BORDO

03 GREY

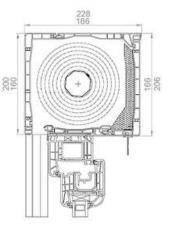
08 DARK BROWN

15 CREAM

20 BLACK









Aluminium blade colors

09 BROWN

04 DARK BEIGE

01 SILVER

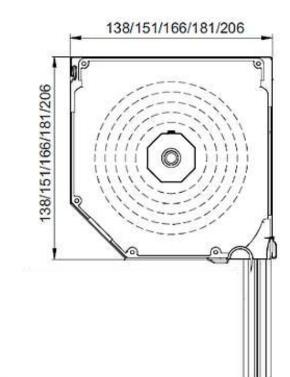
30 WALLNUT

34 WENGE

PVC box colors

ROLLER SHUTTERS

Renovation roller shutters - applied to the exterior - slats 39 mm, 45, 55, 77 mm; Aluminum slides - dimensions 53 x 22 mm; Types of operation: manual (with strap or crank), wired (with switch), radio (with remote controls); All elements are electrostatic field dyed; The engine is Somfy; Standard colors: white, brown and dark brown, but also other colors on demand (prices increase on color); Box 137, 165, 205 mm aluminum cut or rounded pan on request (the price increases on rounded box).



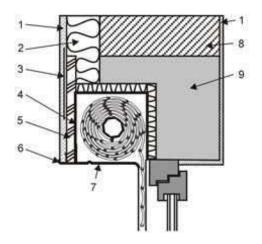


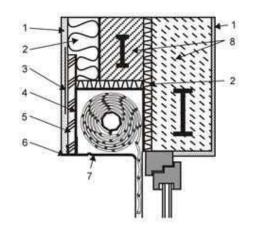


ROLLER SHUTTERS

Exterior **plasterable roller shutters** are a modern solution used in newly constructed buildings, as well as existing buildings - it is a perfect product for those who care about being energy efficient.

This new system differs from other shutter systems by its mounting method: the shutters are mounted in front of the window, thus we avoid any possible empty space above the window. The integrated components of IT2000 roller shutters do not interfere with the construction of the window, door or lintel, and thus do not break the seal of the building structure. The integrated roller shutter box is not visible, while the inspection hatch, bar and guides can be colored to match the windows.







1. plaster

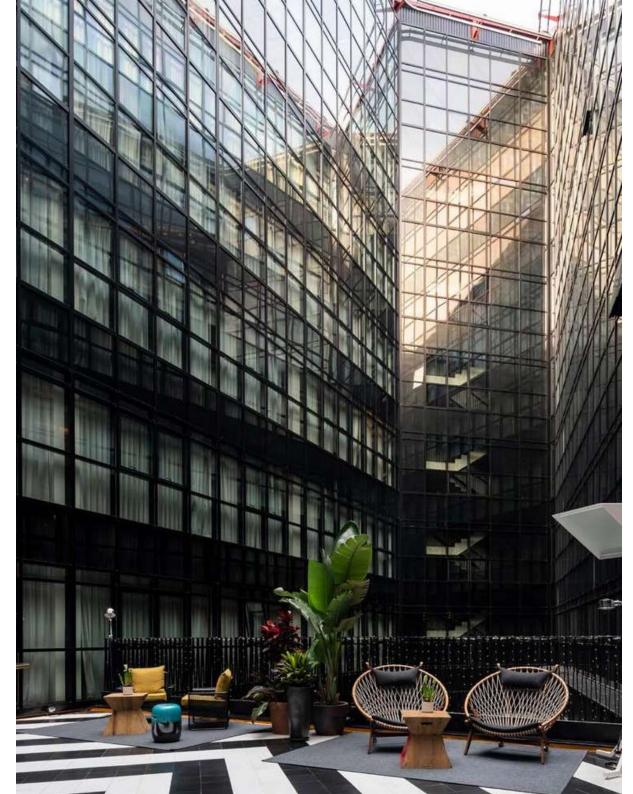
- 2. thermal insulation
- 3. reinforcement fabric
- 4. aluminum trunk
- 5. insulating panel
- 6. hood
- 7. inspection hatch
- 8. lintel structure
- 9. concrete



34 WENGE

GLASS FAÇADES







TP 52 FAÇADE



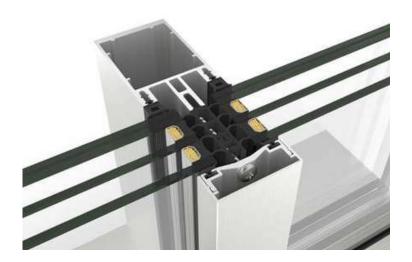
Light façade system composed of 52 mm mullions and transoms that form the support structure. The glass is fixed at its four sides by a continuous pressure profile that is externally screwed to the screw ports incorporated in the mullions and transoms, concealing the entire fixing system under an embellishing profile or cover with an interlock profile of 52 mm.



FEATURES

Transmittance		Ucw ≥ 0,6 (W/m²K)
Air permeability	×	Class AE
Water tightness	* *	Class RE1350
Wind resistance *	-	Passed

Reference test 3,00 x 3,50 m Certification CWCT British Standard * Design loading 2000 Pa-Security loading 3000 Pa



Glazing

Max. 64 mm, Min. 4 mm

Sightlines Mullion 52 mm

Transom 52 mm

Profile Thickness

Mullion 2,1 and 3,0 mm Transom 2,1 mm

Thermal Break Zone 6, 12 and 30 mm stackable profiles

Cover

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

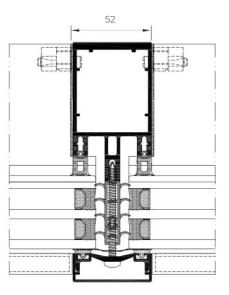
Minimum / Maximum opening dimensions

Hidden Top Hung:

Width (L) 2500 - 500 mm, Height (H) 2500 - 650 mm

Hidden Side Hung / Tilt & Turn: Width (L) 1400-500 mm, Height (H) 1900-600 mm Hidden Parallel:

Width (L) 1500-450 mm, Height (H) 3000-650 mm



OPENING POSSIBILITIES



Outward Opening

Hidden top hung Hidden parallel Inward Opening Hidden side hung / tilt & turn

Maximum Weight

200 kg Parallel opening 180 kg Hidden top hung opening 100 Kg Tilt & turn opening 750 Kg Fixed glazing



INTERIOR DIVISIONS SYSTEMS





PW 80

Office Partition Wall

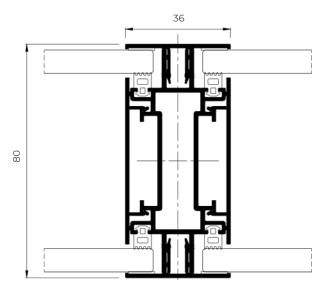


Designed to divide interior spaces, available in glass and panel version. This solution allows the integration of side hung doors and venetian blinds.

FEATURES

Acoustic insulation	(()	Rw up to 48 dB
Mechanical Performance	0	Category IV

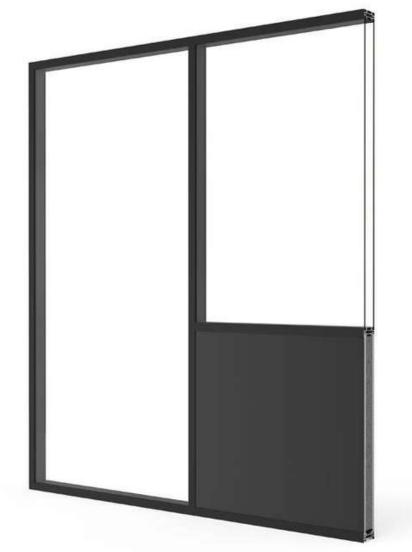
Category IV reference test according to section 2.2.6 of EAD 210005-00-0505



Sections

80 mm (mullion) **Profile thicknes** 1,5 mm (mullion) **Sightlines** 12 / 24 / 36 mm **Panel** 10 - 20 mm **Glazing** 6+6, 8+8, 10+10, 12+12 mm **Máx. weigh** 40 kg **Opening possibilities**

8 and 10 mm Glass side hung door 40 mm Panel side hung door



BALUSTRADES



BALUSTRADE

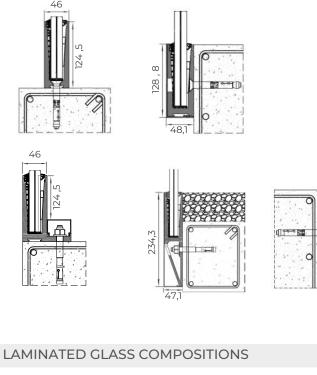
View Crystal / View Crystal Plus

Enjoy excellent views without any visual obstacle thanks to this balustrade system based on a "U" shaped aluminium profile on which laminated safety glass is fixed. Possibility of led strip illumination and drainage solution for exposed areas. Option of aluminium embellishing profile on the upper edge. **VIEW CRYSTAL:** Resists a load of 1,0 kN/m applied at 1,1 metres from its bottom part. Suitable for use in areas A1, A2, B, C1, C2, D1, D2, G1 and G2, included in the CTE DB SE-AE, and A, B, C1, C2, C3, C4, D and E, in accordance with Eurocode 1.

VIEW CRYSTAL PLUS: Resists a load of 3,0 kN/m. Suitable for use in all areas from CTE DB SE-

AE

and areas A, B, Cl, C2, C3, C4, C5, D and E, in accordance with Eurocode 1.



10-1,52-10	10-1,14-10	10-0,76-10	10-0,38-10
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



Assembly Possibilities

Over slab Flush over slab Edge slab Inverted edge slab Flush with the slab Flush with the pavement **Maximum Height** 1100 mm

Tests according to standards UNE 85237, UNE 85238 and UNE 85240. Established requirements in CTE (DB SU-1 and DB SE-AE) And established requirements in Eurocode 1 according to EN 1991-1-1/AC

Static horizontal test towards the exterior Static horizontal test towards the interior Dynamic test with mild object Dynamic test with hard object Verification of section 3.2 of DB-SE-AE of CTE Verification of the specifications of the Eurocode 1 according to table 6.12 for use categories of 3kN/m

Clasification according to UNE 85240, Class A-Excellent

Reference test on balustrade with glass and extruded aluminium, fixed to the slab edge with (H) 1100 X (L) 1500 mm of total dimensions above ground level Reference test on balustrade with glass and extruded aluminium, fixed over the slab with (H) 1100 X (L) 1500 mm of total dimensions above ground level.



BALUSTRADE

Classic

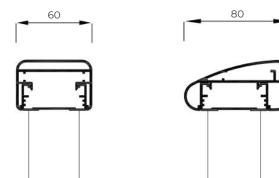
Traditional balustrade system with bar or glass aspect. Possibility of fixing to slab or to the edge of the slab.



Tests according to standards UNE 85237, UNE 85238 and UNE 85210. Requirements established in CTE (DB SU-1 and DB SE-AE)

Static horizontal test towards the exterior Static horizontal test towards the interior Static vertical test Dynamic test with mild object Dynamic test with hard object Verification of section 3.2 of DB-SE-AE of CTE Security test





PossibilitiesGlass balustradingGlass balustrading with free top edgeBar balustradingBar balustrading with free top edgeHandrail PossibilitiesSquare - 60 mm widthCircular - 66 mm diameterElliptical - 80 mm external perimeterMaximum Dimensions Between Pilasters1000 mmMinimum Height900 mm

Clasification according to UNE 85240, Class A-Excellent

Reference test on glass balustrading at a total height of (H) 1100 x (L) 2450 mm and 3 pilasters. Reference test on bar balustrading with top free edge of (H) 1100 x (L) 2000 mm and 3 pilasters.

122 Security test

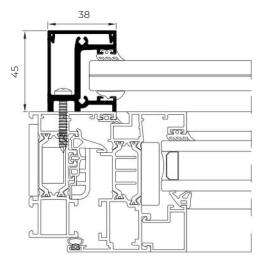
CLASSIC BALUSTRADE





Balcony

Balustrading solution for installation on the exterior of the carpentry by means of concealed fixings, allowing for the total opening of balconies without the risk of falling.



Classification according to UNE 85240, Class A-Excellent Reference test on glass and extruded aluminium balustrade of (H) 1200 x (L) 1800 mm.

Tests according to standards UNE 85237, UNE 85238 and UNE 85240. Requirements established in CTE (DB SU-1 AND DB SE-AE) and in Eurocode 1 according to EN 1991-1-1 for use category of up to 1,6 KN/m.

Static horizontal test towards the exterior. Static horizontal test towards the interior. Static vertical test. Dynamic test with mild object. Dynamic test with hard object. Verification of section 3.2 of DB SE-AE of CTE. Security test.



LAMINATED GLASS COMPOSITIONS		
8-1,52-8	6-1,52-6	
8-1,14-8	6-1,14-6	
8-0,76-8	6-0,76-6	
8-0,38-8	6-0,38-6	



Maximum width 1800 mm







GLASS







GARAGE DOORS



GARAGE DOORS ROLL-UP

Simple and aesthetically pleasing, they are made of 55mm or 77mm wide aluminium slats filled with polyurethane foam (similar to aluminium outer rollers), providing thermal insulation and strength. This type of door is operated by rolling the door leaf mat on the guide system in a cassette mounted on top of the opening. Possibility of motorization:





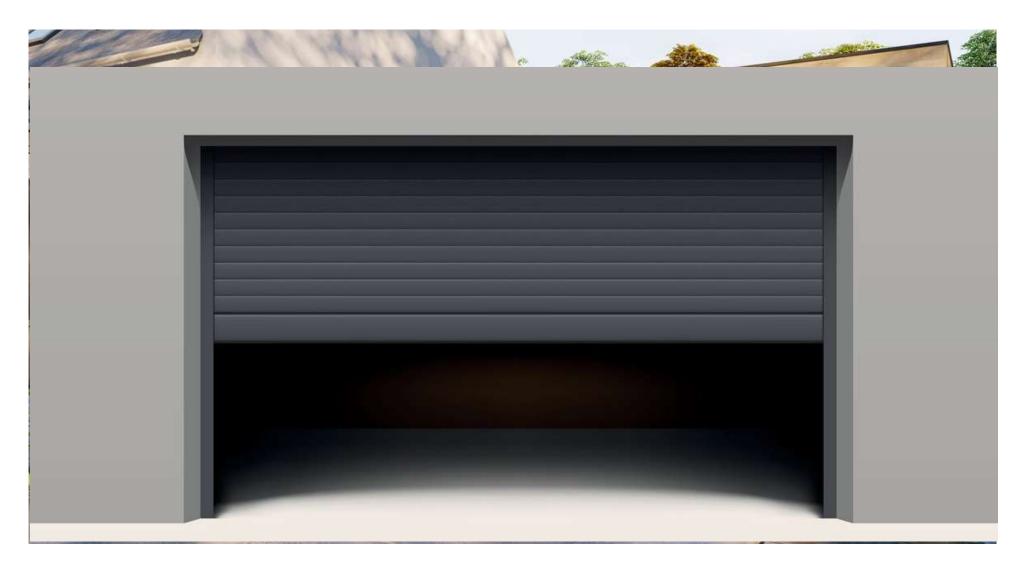
GARAGE DOORS SECTIONAL

The sectional door consists of panels hinged together; when the sectional door opens, the panels slide vertically under the garage ceiling. It is therefore less bulky than an overhead door.

Possibility of motorization:



A sectional door is also easy to insulate and therefore reduces energy losses.



PORTE ROYALE







PORTE ROYALE 7* COLLECTION

Standard equipment:

5-point locking RC2 Day-night lock Security bolt PureHandle exterior handle Anti-burglary glass 73mm (442 frosted + 442 LowE + 442 frosted) + Argon Decorative panel 80mm Sheet thickness: 2mm interior / 3mm exterior 3 cylindrical hinges PureHandle interior handle Thermal insulation $\geq 1.0 (W/m^2K)$ Sound insulation up to 38 dB Minimum width = 850mm / maximum width= 1100mm Minimum height = 2000mm / maximum height = 2200mm

Custom Design:

Colors: RAL color palette/ Wood imitation / Bicolor possibility Glass sandblasting with pattern Special exterior handle Additional aluminum milling and inserts Full finish in wood imitation shades



PORTE ROYALE 5* COLLECTION

Standard equipment:

5-point locking RC2 Day-night lock Security bolt PureHandle exterior handle Saint Gobain triple glass: (442 frosted + 442 LowE + 442 frosted) + Argon Decorative panel 44mm Sheet thickness: 2mm interior / 3mm exterior 3 cylindrical hinges PureHandle interior handle Thermal insulation ≥ 1.4 (W/m²K) Sound insulation up to 38 dB Minimum width = 850mm / maximum width= 1100mm

Custom Design:

Colors: RAL color palette/ Wood imitation / Bicolor possibility Glass sandblasting with pattern Additional aluminum milling and inserts Full finish in wood imitation shades

PORTE ROYALE 3* COLLECTION

Standard equipment:

5-point locking RC2 Day-night lock Security bolt STAC interior/ exterior handle 4 frosted + 4 LowE + Argon glass Sheet thickness: 1.2mm interior / 1.2mm exterior 3 cylindrical hinges Thermal insulation ≥ 1.5 (W/m²K) Sound insulation up to 32 dB Minimum width = 850mm / maximum width= 1100mm Minimum height = 2000mm / maximum height = 2200mm

Custom Design:

Colors: RAL color palette / Bicolor possibility Additional aluminum milling and inserts

















ARTA



















MINIMALISTA





CONTEMPORANEO





MONARCA









ACCESSORIES



VENTILATION GRILLES

INVISIVENT AIR LIGHT (ALU)

With this new range, the focus is on energetic, acoustic, and thermal comfort. These products guarantee a fast installation (monobloc principle), high stability on the window and a totally airtight finish. The Invisivent Air can easily be used in any project, be it a new)build or renovation project. The Invisvent AIR Basic guarantees a basic sound damping of 34(0;-1) dB.

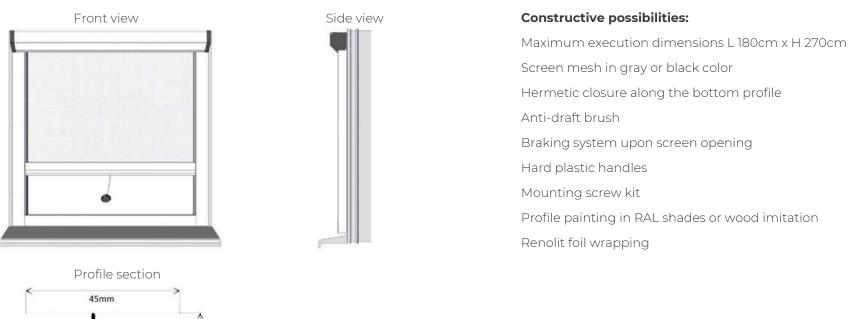
AIRFLOW CONTROLLER CANOPY (PVC)

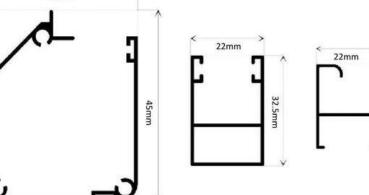
Beyond protecting the interior of the window from water infiltration and volatile insects, the AC external canopy also controls the airflow to avoid over-ventilation in case of excess of pressure through a patented device. This ability makes the AC canopy particularly suitable for tall buildings or windy locations. The AC external canopy can be installed with either fixed or humidity sensitive air inlets.

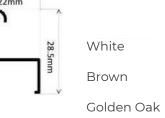




INSECT SCREENS - VERTICAL ROLLER TYPE B'SMART



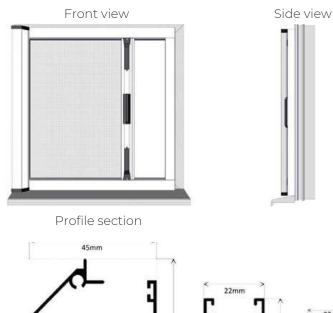








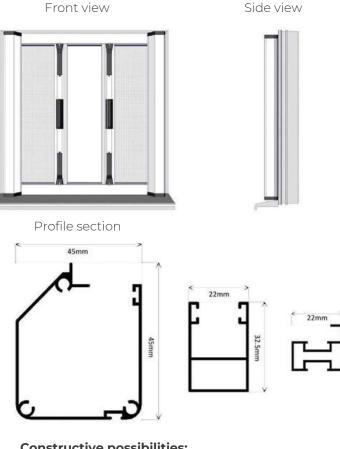
INSECT SCREENS - HORIZONTAL ROLLER TYPE B'SMART



45mm

Constructive possibilities:

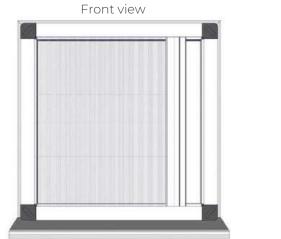
Maximum execution dimensions L 180cm x H 270cm Screen mesh in gray or black color Hermetic closure with magnet Guiding rolls Anti-draft brush Braking system upon screen opening Hard plastic handles Mounting screw kit Profile painting in RAL shades or wood imitation Renolit foil wrapping



Constructive possibilities:

Maximum execution dimensions L 240cm x H 270cm Screen mesh in gray or black color Hermetic closure with magnet Guiding rolls Anti-draft brush Braking system upon screen opening Hard plastic handles Mounting screw kit Profile painting in RAL shades or wood imitation Renolit foil wrapping

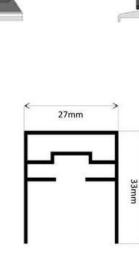
INSECT SCREENS - TYPE B'SMART PLISSE

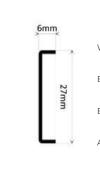


Profile section

43mm

23mm





Side view





Constructive possibilities:

Maximum execution dimensions L 200cm x H 300cm Screen mesh in gray or black color Sectional profile equipped with mounting area Hermetic closure with brush Durable plastic accessories Mounting screw kit Execution with 6mm threshold Profile painting in RAL shades or wood imitation Renolit foil wrapping

INSECT SCREENS - TYPE B'SMART PLISSE



Profile section

Side view

Constructive possibilities:

Maximum execution dimensions L 600cm x H 300cm Screen mesh in gray or black color Sectional profile equipped with mounting area Hermetic closure with magnet Durable plastic accessories Mounting screw kit Execution with 6mm threshold Profile painting in RAL shades or wood imitation Renolit foil wrapping

