

# featured products

Architectural aluminium systems



# featured products

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#### **ACCESORIES**

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# CORTIZO

Global production capacity

CORTIZO, an international leader in the design and manufacture of aluminium and PVC. Our production capacity consists of 150.000 t of aluminium and 45.000 t of PVC. This enables us to meet the requirements of our customers across the 60 countries in which we are currently present.





Made with

# 100% Recycled Post-consumer aluminium



Adds

Value to your projects

Produced in our

Own foundries



## COR 80



#### 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  $0.66~\rm W/m^2K$ , it is an ideal solution for buildings with low energy consumption.

FEATURES		
Transmittance		Uw ≥ 0,66 (W/m²K)
Acoustic insulation	<b>((I</b>	Rw up to 46 dB
Air permeability	[ $ u$ $]$	Class 4
Water tightness	·•	Class E1950
Wind resistance		Class C5

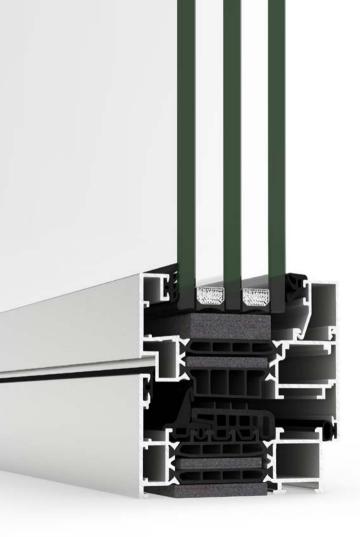
Sightlines: Frame 80 mm, Sash 88 mm Glazing: Max. 65 mm, Min. 16 mm

Max. Sash Dimensions: 1500 (L) x 2600 (H) mm

Max. Sash Weight: 160 kg

Inward Opening: Side hung, Tilt & turn, Tilt & parallel, Tilt only

Consult maximum weight and dimensions according to typologies. Reference test 1,23  $\times$  1,48 m / 2 sashes



## **COR 80**





#### 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 polyolefin both around the glass and between the frame and sash.

FEATURES		
Transmittance		Uw ≥ 0,8 (W/m²K)
Acoustic insulation	<b>■</b> ()))	Rw up to 46 dB
Air permeability	(₹)	Class 4
Water tightness	•€]	Class E1950
Wind resistance	(mg)	Class C5
Burgular resistance		Grade RC2 (WK2)

Sightlines: Frame 80 mm, Sash 88 mm Glazing: Max. 65 mm, Min. 16 mm

Max. Sash Dimensions: 1500 (L) x 2600 (H) mm

Max. Sash Weight: 160 kg

Inward Opening: Side hung, Tilt & turn, Tilt & parallel, Tilt only Outward Opening: Side hung, Top hung

Consult maximum weight and dimensions according to typologies. Reference test  $1.23 \times 1.48 \text{ m} / 2 \text{ sashes}$ 



## 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. Added to all of this is the 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	<b>\$</b>	Uw ≥ 0,8 (W/m²K)
Acoustic insulation	<b>■</b> 0))	Rw up to 46 dB
Air permeability	<b></b>	Class 4
Water tightness	·£]	Class E1650
Wind resistance	<b>€</b>	Class C5

Sightlines: Frame 80 mm, Sash 80 mm

Glazing: Max. 51 mm, Min. 36 mm

Max. Sash Dimensions

Standard Solution: Width (L) 1300 mm, Height (H) 2400 mm HD Hinges (Side Hung): Width (L) 1200 mm, Height (H) 3500 mm

Max. Sash Weight: 160 kg

Inward Opening: Side hung, Tilt & turn, Tilt only

Consult maximum weight and dimensions according to typologies. Reference test 1,23 x 1,48 m / 2 sashes

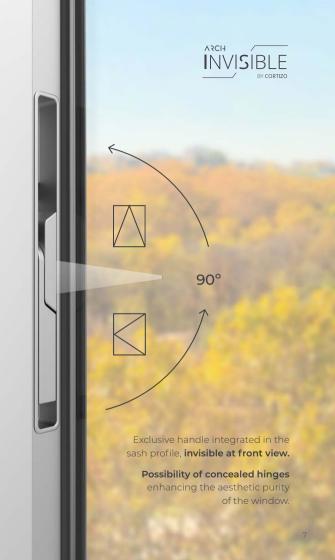
#### First invisible handle on the market

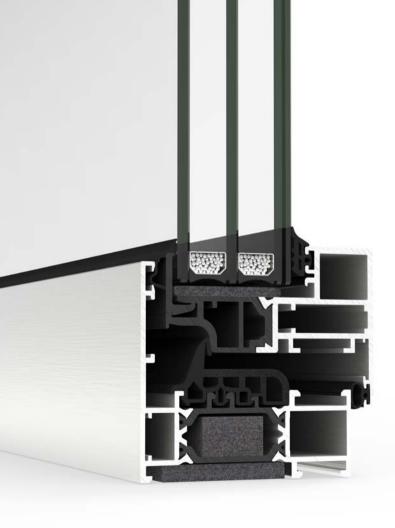


Solution for hidden sash systems COR 80 HS, COR 70 HS and COR 70 OC

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 fat, it is a side hung or tilt & turn opening.









#### Hidden Sash

\_\_\_\_\_

It could be a painting, but is a window. This is how we can describe the COR 70 Hidden Sash which, like the 80 mm version, has a sightline of only 66 mm and allows the incorporation of the ARCH INVISIBLE handle, concealed hinges and the drainage solution. Any element that breaks the visual harmony of the ensemble is discarded.

FEATURES		
Transmittance	〇〇	Uw ≥ 1,0 (W/m²K)
Acoustic insulation	<b>■</b> )))	Rw up to 46 dB
Air permeability	[*]	Class 4
Water tightness	•	Class E1650
Wind resistance	( <del>-</del> 8)	Class C5
Security test	PAS24	Passed

Sightlines: Frame 70 mm, Sash 70 mm Glazing: max. 40 mm, min. 26 mm

Max. Sash Dimensions: Standard solution 1300 (L) x 2400 (H) mm

HD Hardware (Side Hung) 1200 (L) x 3500 (H) mm

Max. Sash Weight: 160 kg

Inward Opening: Side hung, Tilt & turn, Tilt only

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

Consult maximum weight and dimensions according to typologies.





## **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 face drainage.

Facilitates window fabrication, allowing to place the base of the frame on the site itself.



## CORTIZO MINIMALIST HANDLE

Simple lines, avant-garde design

Straight aesthetic

Design without escutcheon

Applicable to all European-Groove hinged series, CC16, C16 and PVC

Specific transmission box (In European-Groove)

Hidden screws

8 mm spindle (In European-Groove)

Dimensions 32 x 148 mm

## 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.

FEATURES		
Transmittance	<b>\$</b>	Uw ≥ 0,83 (W/m²K)
Air permeability	<b>*</b>	Class 4
Water tightness	•€	Class E1200
Wind resistance	-E	Class C5

 $\textbf{Sightlines:} \ \mathsf{Modern} \ \mathsf{frame} \ \mathsf{75} \ \mathsf{mm,} \ \mathsf{Classic} \ \mathsf{frame} \ \mathsf{100} \ \mathsf{mm,} \ \mathsf{Sash} \ \mathsf{83} \ \mathsf{mm}$ 

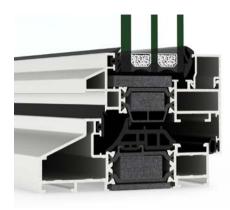
Glazing: Max. 54 mm, Min. 20 mm

Max. Sash Dimensions: 1500 (L) x 2600 (H) mm

Max. Sash Weight: 160 kg

 $\textbf{Inward Opening:} \ \mathsf{Side hung, Tilt \& turn, Tilt only}$ 

Consult maximum weight and dimensions according to typologie Reference test 1,23 x 1,48 m / 2 sashes



\*Classic version



\*Modern version





\*Flush Version

## 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/m<sup>2</sup>K, has the British security certification PAS 24, being especially suitable for this market.

FEATURES		
Transmittance		Uw ≥ 0,9 (W/m²K)
Acoustic insulation	<b>(</b> (1))	Rw up to 45 dB
Air permeability	[*]	Class 4
Water tightness	•€	Class E1200
Wind resistance	THE STATE OF THE S	Class CE 2400
Security test	PAS24	Passed

Sightlines: Frame 70 mm, Sash 70 mm Glazing: Max. 44 mm, Min. 23 mm

Outward Opening: Side hung, Top hung

Reference test 1,438 x 1,355 m / 1 sash + 1 fixed light
Security test: Reference test 1,438 x 1,355 m / 1 sash + 1 fixed light





#### **Maximum Sash Dimensions**

Slim Sash (Side Hung)

700 (L) x 1300 (H) mm

Slim Sash (Top Hung)

1200 (L) x 1300 (H) mm

Heavy Duty Sash (Side Hung) 750 (L) x 1750 (H) mm

Heavy Duty Sash (Top Hung) 1800 (L) x 1800 (H) 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

Consult maximum weight and dimensions according to typologies



## MILLENNIUM PLUS 80

#### **DOOR**

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	<b>■</b> ((( <b>▶</b>	Rw up to 40 dB
Air permeability	<b></b>	Class 4
Water tightness	•	Class 6A
Wind resistance	( <del>*</del>	Class C4
Resistance to mild impact	$[\!\![\!\!*\!]]$	Class 5 (max.)
Repeated openings and closings		1.000.000 Cycles
Burgular resistance		Class RC2

Sightlines: Frame 80 mm, sash 80 mm Glazing: max. 64 mm, min. 15 mm

Max. Sash Dimensions: door 1800 (L)  $\times$  3000 mm (H) Concealed door hinges 1500 (L)  $\times$  2700 (H) mm

Max. Sash Weight: 220 kg / 120 Kg (concealed hinges)

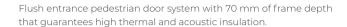
Inward / Outward opening: Side hung
Automatic opening: Inward and outward side hung

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 0,935 x 2,10 m / 1 sash
Burgular test NEN 5096: 2012+Al: 2015 en EN 1627:201



## MILLENNIUM PLUS 70

#### DOOR



FEATURES		
Transmittance		Uw ≥ 0,9 (W/m²K)
Acoustic insulation	<b>■</b> 1)))	Rw up to 38 dB
Air permeability	[*]	Class 4
Water tightness	•	Class 6A
Wind resistance	<b>=</b> 8	Class C4
Resistance to mild impact	$[\!$	Class 5 (max.)
Repeated openings and closings	<b>4</b>	1.000.000 Cycles
Burgular resistance		Class RC2

Sightlines: Frame 70 mm, sash 70 mm Glazing: max. 54 mm, min. 15 mm

Max. Sash Dimensions: door 1800 (L) x 3000 mm (H)

Concealed door hinges 1500 (L) x 2700 (H) mm

Max. Sash Weight: 220 kg / 120 Kg (concealed hinges)

Inward / Outward opening: Side hung
Automatic opening: Inward and outward side hung
Swing Opening: Side hung

Ensayo de referencia AEV 1,20 x 2,30 m / 1 sash
Resistencia al impacto de cuerpo blando: UNE-EN 13049
Ensayo de seguridad / Efracción: NEN 5096: 2012+Al: 2015 en EN 1627: 201
Ensayo de referencia puerta 1,80 x 2,20 m / 2 sashs. Vídrio laminar 3+3

Resistencia a aperturas y cierres repetidos: UNE-EN 1191. Ensayo de referencia puerta  $2,10 \times 2,20 \text{ m}/2 \text{ sashs}$ 



\*Compatible with Millenium Plus 70 and 80 doors

#### PANFILED

#### **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.

#### **FEATURES**

Sightlines: Frame 80/70 mm, Sash 80/70 mm

**Polyamide Strip Length:** 30 / 34 mm (80), 20 / 24 mm (70)

Panel: Max. 80 mm, Min. 33 mm (80), Max. 70 mm, Min. 23 mm (70)

Max. Sash Dimensions:

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

Concealed door hinges Width (L) 1500 mm, Height (H) 2700 mm

Max. Sash Weight: 220 kg, 120 Kg (concealed hinges)

Profile Thickness: Door 2.0 mm

Inward Opening: side hung, automatic side hung
Outward Opening: side hung, automatic side hung

Consult maximum weight and dimensions according to typologies Reference test 1,20 x 2,00 m / 1 Sash

\*Compatible with Millenium Plus 70 and 80 doors



#### MILLENNIUM PLUS

#### **PIVOT DOOR**

This new entrance door from Cortizo answers the latest design trends. The system is designed to allow large pivot openings suitable for contemporary architectural projects, and it offers excellent thermal and acoustic performance along with minimalistic sightlines.

FEATURES			
Transmittance		U <sub>D</sub> ≥ 0,79 (W/m²K)	
Air permeability	[*]	Class 4	
Water tightness	•	Class 5A	
Wind resistance	( <del>-</del> 6)	Class C5	

Sightlines: Frame 80, Sash 80 mm

Panel: 80 mm

Max. Sash Dimensions:

Width (L) 2100 (1700\* + 400 mm) - \*Measured from the pivot axis

Height (H) 3000 mm

Max. Sash Weight: 250 kg

#### Inward Opening: Pivoting

Consult maximum weight and dimensions according to typologies. Reference test  $1.20 \times 2.00 \text{ m} / 1 \text{ Sash}$ 





## 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		Uw ≥ 1,1 (W/m²K)		
Air permeability	[*]	Class 4		
Water tightness	•€]	Class 9A		
Wind resistance	<b>4</b>	Class A3		
Security test	PAS24	Passed		

Sightlines: Frame 73 mm, Sash 73 mm

Glazing: Max. 45 mm, Min. 25 mm

Max. Sash Dimensions: 1200 (L) x 3000 mm (H)

Max. Sash Weight: 120 Kg

Inward Opening: From 1 to 14 sashes

Outward Opening: From 1 to 14 sashes

Possibility of 90° corner sash without mullion

Wind resistance: reference test 2,700  $\times$  2,530 m / 3 sashes Security test: Configuration 330. 2701  $\times$  2517 mm / 3 sashes



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

## BI-FOLD PLUS

#### **DOOR**

The new 80 mm deep, Bi-fold Plus system simultaneously separates environments and unifies spaces. This development of the Bi-fold system has excellent thermal and acoustic performance thanks to its 45 mm thermal break and maximum glazing capacity of 52 mm. It also offers a reduced central interlock of just 110 mm, allowing us to maximise glass surface area, optimising natural light.

FEATURES				
Transmittance		Uw ≥ 0,8 (W/m²	K)	
Air permeability	<b>\(\pi\)</b>	Class 4		
Water tightness	•	Class E750		
Wind resistance	( <del>-{</del>	Class C3		
Repeated openings and closings		50.000 cycles (Main swing door)	25.000 cycles (Even sashes)	
Security test	PAS24	Passed		

Sightlines: Frame 80 mm, Sash 80 mm

Glazing: Max. 52 mm, Min. 24 mm

Max. Sash Dimensions: 1200 (L)  $\times$  3000 mm (H)

Max. Sash Weight: 120 kg

Inward Opening: Up to 14 sashes

Outward Opening: Up to 14 sashes

Possibility of  $90^{\circ}$  corner sash without mullion

### MONUMENTAL BI-FOLD

#### DOOR

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.

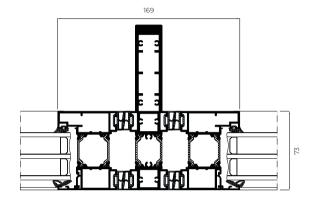
FEATURES		
Transmittance		Uw ≥ 1,1 (W/m²K)
Air permeability	<b>[</b> *]	Passed
Water tightness		DP 60
Wind resistance	<b>&amp;</b>	DP 40
Structural Overload		DP 40
Hurricane impact		Passed

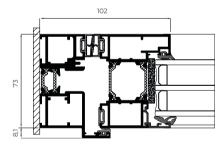
Sightlines: Frame 73 mm, Sash 73 mm Glazing: Max. 45 mm, Min. 25 mm

Max. Sash Dimensions: 1200 (L) x 5000 mm (H)

Max. Sash Weight: 220 Kg

Opening Possibilities: from 1 to 14 sashes





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







## 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	<b>■</b> 1)))	Rw up to 43 dB
Air permeability	$[$ $ \mathbb{E}]$	Class 4
Water tightness	•€]	Class 7A* / 9A**
Wind resistance	<b>+</b>	Class C3* / C4**

Sightlines: Frame 180 mm - 278 mm 3 rails / Sash 69 mm

Glazing: Max. 56 mm, Min. 36 mm

Max. Sash Dimensions: 4000 (L) x 4000 (H) mm (\*Glazed surface 14 m²)

Max. Sash Weight: 400 kg Manual / 700 Kg Motorized

Opening possibilities: Sliding, Possibility of 1, 2, 3 or 4 rails

Possibility of interior and exterior corner sash at  $90^{\circ}$  without mullion

Pocket possibility



<sup>\*</sup> Reference test balcony 4,00 x 3,00 m / 2 sashes

<sup>\*\*</sup>Reference test balcony 4,00 x 3,00 m / 1 sash + 1 fixed light

Consult maximum weight and dimensions according to typologies











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.



**DRAINAGE** SOLUTION





## 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.

EATURES			
	Uw ≥ 1,3 (W/m²K)		
<b>■</b> )))	Rw up to 41 dB		
[*]	Class 4		
•€	Class 7A		
(mg)	Class C5		
	(a)		

 $\textbf{Sightlines:} \ \mathsf{Frame} \ \mathsf{116} \ \mathsf{mm} \ \mathsf{-182} \ \mathsf{mm} \ \mathsf{3} \ \mathsf{rails} \ \mathsf{/} \ \mathsf{Sash} \ \mathsf{37} \ \mathsf{mm}$ 

Glazing: Max. 30 mm, Min. 26 mm

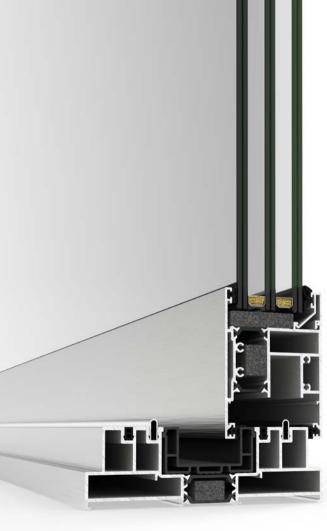
Max. Sash Dimensions:  $2500 (L) \times 3000 (H) mm$ 

Max. Sash Weight: 320 Kg

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

Reference test 1,23 x 1,55 m / 1 sash + 1 fixed light





## 4600 HI

#### Lift & Slide

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 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	<b>₩</b>	Uw ≥ 0,9 (W/m²K)	
Acoustic insulation	<b>((IP</b>	Rw up to 43 dB	
Air permeability	[*]	Class 4	
Water tightness	•	Class 9A	
Wind resistance	( <del>-</del> 6)	Class C5	

Sightlines: Frame 160,6 mm / 251 mm 3 rails, Sash 70 mm

Glazing: Max. 55 mm, Min. 15 mm

Max. Sash Dimensions: 3300 (L) x 3300 (H) mm

Max. Sash Weight: 400 kg

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

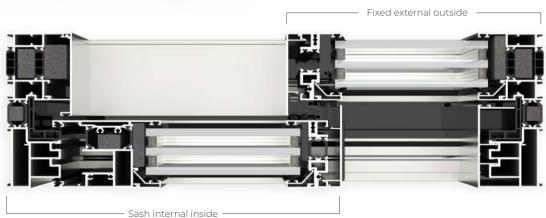
Reference test 4,0 x 2,4 m / 2 sashes

Consult maximum weight and dimensions according to typologies





#### **NEW** AVAILABLE CONFIGURATION



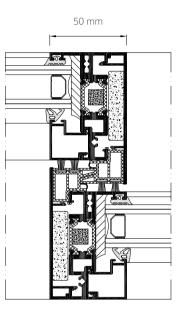




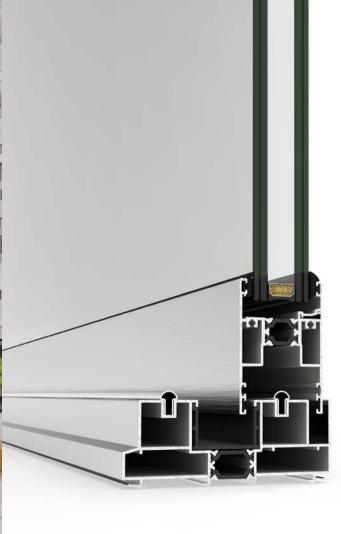


# SLIM INTERLOCK

Possibility of a **reduced interlock section of 50 mm** in monorail frame (sash + fixed light) and 2 rail frame, allowing a larger glazed surface.







## 4700

#### Sliding

Standard sliding system with straight aesthetic and a reduced interlock section of 47 mm, ideal for closing large spans without using a lift & slide solution, it combines great thermal and acoustic performance with large glazed surfaces of up to 88%.

FEATURES				
Transmittance	<b>(4)</b>	Uw ≥ 1,1 (W/m²K)		
Acoustic insulation	<b>■</b> ()))	Rw up to 40 dB		
Air permeability	<b>\(\pi\)</b>	Class 3		
Water tightness	•	Class 7A		
Wind resistance	<b>€</b>	Class C5		
Security test	PAS24	Passed		

Sightlines: Frame 115 and 120 mm, 185 mm 3 rails, Sash 50 mm

Glazing: Max. 36 mm, Min. 26 mm

Max. Sash Dimensions: 2500 (L) x 3300 (H) mm

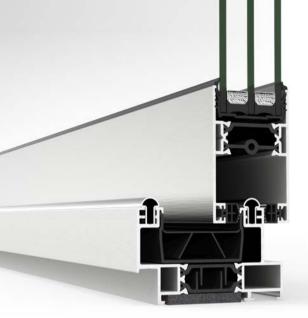
Max. Sash Weight: 280 kg

Opening possibilities: Sliding, 1 rail (sash + fixed light), 2 and 3 rails,

Pocket possibility

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

Consult maximum weight and dimensions according to typologies







4900 HI



#### 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.

FEATURES				
Transmittance		Uw ≥ 1,2 (W/m²K)		
Acoustic insulation	<b>■</b> 1)))	Rw up to 40 dB		
Air permeability	[ $ i$ $]$	Class 4		
Water tightness	•8]	Class 7A		
Wind resistance	(F)	Class C5		

**Sightlines:** Frame 60, 70, 89, 120, 125, 130 mm / 126, 145 mm 3 rails 201 mm 4 rails / Sash 48 mm

Glazing: Max. 36 mm, Min. 24 mm

Max. Sash Dimensions: 2200 (L) x 3000 (H) mm

Max. Sash Weight: 240 kg

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

Reference test 1,80 x 2,20 m / 2 sashes CSTB Laboratory DTA Certification

Consult maximum weight and dimensions according to typologies





## 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.



WINDOW HANDLE OFFSET HANDLE HANDLE WITH KEY







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

### **DOOR** HANDLE





## VIEW CRYSTAL BALUSTRADE

Invisible safety









## BALUSTRADE

## View Crystal / View Crystal Plus



#### **FEATURES**



## **CLASS A - EXCELLENT**

Clasification according to UNE 85240



## VIEW CRYSTAL 1,0 kN/m

Resists a load of 1,0 kN/m applied at 1,1 metres from its bottom part. Suitable for use in areas Al, A2, B, Cl, C2, D1, D2, G1 and G2, included in the CTE DB SE-AE, and A, B, Cl, C2, C3, C4, D and E, in accordance with Eurocode 1.



## VIEW CRYSTAL PLUS 3,0 kN/m

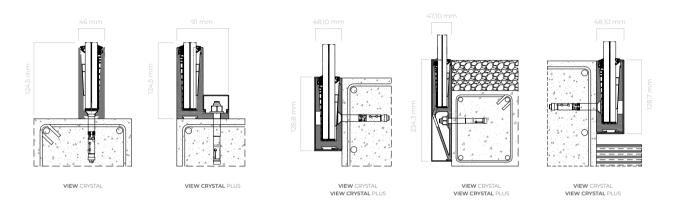
Resists a load of 3,0 kN/m. Suitable for use in all areas from CTE DB SE-AE and area A. B. Cl. C2. C3. C4. C5. D and E. in accordance with Eurocode 1.

**Sightlines:** Over slab, Flush over slab, Edge slab, Inverted edge slab Flush with the slab, Flush with the pavement

Maximum height: 1100 mm

#### **INSTALLATION** OVER SLAB

### **INSTALLATION** IN FRONT OF THE SLAB



LAMINATED GLASS COMPOSITIONS						
10-1.52-10	10-1.52-10 10-1.14-10		10-0.38-10			
8-1,52-8			8-0,38-8			
6-1,52-6	6-1,14-6	6-0,76-6	6-0,38-6			

### **12 GLAZING POSSIBILITIES**

This railing system allows double laminated glazing with 6, 8 or 10 mm thickness with up to 4 polyvinyl coatings. Toughened glass is recommended.



## JULIET

## 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.

### **FEATURES**



## CLASS A - EXCELLENT

Classification according to UNE 85240

Reference test on glass and extruded aluminium balustrade of 1200 (H) x 1800 mm (L).



## 1,6 kN/m

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.

Maximum width: 1800 mm



8 GLAZING POSSIBILITIES

This railing system allows double laminated glazing with 8 or 6 mm and up to 4 polyvinyl coatings. Toughened glass is recommended.

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			







Cortizo's Department of Engineering for Building Envelopes is directed towards the design of custom envelopes for large dimension projects and technical complexity.

\_The Mercian
Birmingham, United Kingdom



## ENGINEERING FOR BUILDING FNVFLOPES



#### DESIGN

Design of bespoke profiles, preparation of technical details and onsite consultation. Calculation and dimensioning of profiles, fixings, accessories, composite panel and glazing. 3D visualisation and renderings.

#### **FEATURES**

The analysis executed in the CORTIZO Technological Centre allow us to test the façades' performance against the most extreme conditions, for example earthquakes, hurricanes, fires... Additionally our laboratory also examines the thermal and acoustic performances of all the developed systems, as well as their behaviour in air, water tightness and wind tests.

#### COMPREHENSIVE ASSISTANCE

85 engineers provide the necessary technical assistance in each of the project's phases, from the initial design phase, calculations, pricing, as well as the planning and control of deliveries.

## UNIT 66

## Modular Façade

Thermally broken façade system suitable for high rise enclosure projects. This solution combines excellent performance with a wide range of custom designs, offering great aesthetic versatility with option of "glass only" or "seen profile" with an interlock profile of 66 mm. Its fixing bracket has three-dimensional regulation, facilitating its installation.

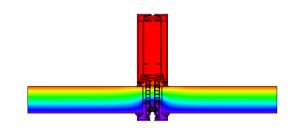
FEATURES		
Transmittance	魯	Ucw ≥ 0,6 (W/m²K)
Air permeability		Class AE
Water tightness	•	Class RE1200
Wind resistance *	<b>1</b>	Passed
Impact resistance	$[\!$	15 / E5

Maximum weight: 350 kg

Glazing: 58 mm

Interlock profile: 66 mm or 76 mm
Thermal break zone: 25 mm - 40 mm
Separation between modules: 10 or 20 mm
Maximum dimensions: 1500 (L) x 3700 (H) mm

\*Design loading 2000 Pa-Security loading 3000 Pa Consult maximum weight and dimensions according to typologies





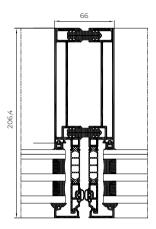


Beaded version

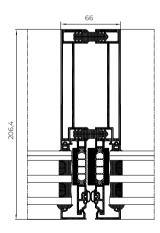




Structural version

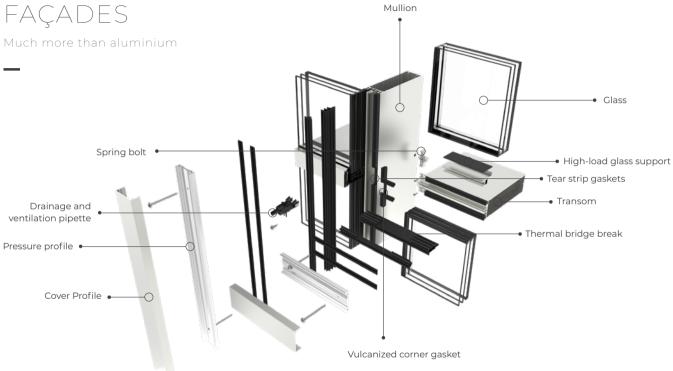


Standard version



High insulation version

## CORTIZO FAÇADES





BASIC DATA			
Glazing	Max. 64 mm Min. 64 mm		
Inwards face width	Mullion 52 mm Tramson 52 mm		
Thickness of profiles	Mullion 2,1 / 3,0 mm Tramson 2,1 mm		
Thermal Break	12 - 66 mm Combination of profiles of 6, 12 and 30 mm		

### **DRAINAGE** LEVELS

CORTIZO façades have been designed so that the drainage channels of mullions and transoms of different levels are found in different planes. By doing this, the possible condensations will be drained from the transoms' outer channels to the mullions and, from there, towards the exterior through the continuity pieces and the pipettes.

These same channels are used, simultaneously, to internally ventilate the four sides of the glass.





Total vulcanized cleat: It

solutions from 90° to 169°

**CORTIZO** 

FAÇADES

### **WATERTIGHTNESS** ELEMENTS

Two plastic accessories are used to drain the water of potential condensations from the inside outwards:

In order to ensure watertightness in the connection of the tramsons with the mullions CORTIZO facades offer two solutions:



### **Continuity piece**

It carries the water that descends from the upper mullion's drainage channels over to the one immediately below.



## Tear strip gaskets

Located inside the mullion with a crease that enables partial tearing in the meeting point with the transom, without leaving the union of the horizontal and vertical profile unprotected.



## **Pipette**

They collect the water flowing down through the drainage channels of the mullions (and the tramsons beside them) and they drain it to the space existing between the pressure plate and the cover, far from the compromised areas in terms of tightness. Available for systems TP 52 and TPV 52.



## Vulcanized corner gasket

This piece is obtained through moulding, which allows the integration of the gaskets of different mullion and transom thickness and, at the same time, isolates the contact zone of the vertical and horizontal profiles.

## 62 MM FAÇADES

CORTIZO extends its stick façades catalogue, adding **new versions with mullions and transoms of 62 mm** for the systems TP, TPH, TPV and SG. This range of curtain walls uses profiles which **offer more inertia and allow the installation of bigger and heavier glasses, improving their fixation against potential movements of the structure.** The 62 mm CORTIZO façades also present stronger unions between mullions and transoms, as well as an anchoring designed for tolerating bigger weight and wind loads than the 52 mm versions.



**TP** 62



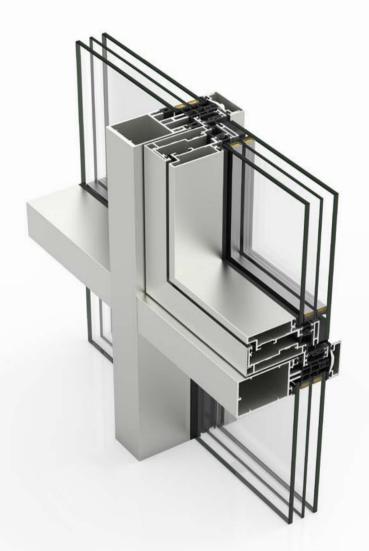


## **NEW HANDLE EMBEDDED** IN THE PROFILE

Minimalist design invisible in the front view.

Available for top hung and parallel opening windows in CORTIZO curtain walls TP 52, TPH 52, TPV 52 and SG 52.





# NEW PARALLEL OPENING WINDOW

Solution for TP-52 curtain wall which allows the opening of big surfaces (automatic or manual) with sashes up to 200 kg that can reach a height of 3 meters and a width of 2 meters.

With a maximal glazing capacity of 42 mm they allow the installation of triple glazings.

#### MAXIMAL WINDOW DIMENSIONS

#### PARALLEL OPENING WINDOW

Max width (L) 2000 mm Max height (H) 3000 mm Min width (L) 530 mm Min height (H) 530 mm

Max weight 200 kg

#### TOP HUNG HIDDEN WINDOW

Max width (L) 2500 mm Max height (H) 2500 mm Min width (L) 500 mm Min height (H) 650 mm

Max weight 180 kg

#### TILT AND TURN / HIDDEN SIDE HUNG

Max width (L) 1400 mm Max height (H) 1900 mm Min width (L) 500 mm Min height (H) 600 mm

Max weight 100 kg





