
VIRTUS
ARCHITECTURAL ALUMINIUM

Aluminium

PAGE	SYSTEM	UF W/m ²K	UW W/m ²K
14	Cor Vision Sliding	3.9	From 1.3
16	Cor Vision Plus Sliding	3.8	From 0.9
18	4700 Slider	4.0	1.5
20	Bi-Fold Plus	1.9	From 0.8
22	Alu - Steel	1.7	0.83
24	Millennium Plus 80 Door	1.7	From 0.8
32	Casement	2.3	From 1.0
32	Flush Casement	2.3	From 1.0
36	Cor 70 Hidden Sash	1.6	From 0.9
38	Cor 80	1.1	0.7

About Us

Virtus Aluminium Systems specialises in high-quality aluminium windows, doors and glazing solutions for residential and commercial projects. Based in Manston, Kent, our experienced team supports customers from initial design and technical guidance through to manufacture and delivery.

We combine precision workmanship, reliable service and careful attention to detail to create durable, energy-efficient products tailored to each project. Whether for a refurbishment, new development or extension, we work closely with homeowners, installers, architects and developers to deliver contemporary aluminium solutions that are built to perform and made to last.







Cortizo Ecoefficient

Aluminium life cycle “cradle to cradle”.
Via its two foundries, CORTIZO RECYCLING transforms aluminium waste into raw material for the extrusion of profiles, thus closing the cycle of a 100% reusable material.
More than 2400 pick-up points of aluminium scrap in Europe.
Low energy consumption in recycling (only 5% compared to primary consumption).
Officially certified purifying stations.



CORTIZO IS QUALITY

Quality is in each and every phase of the production process. From Quality Control Department, daily exhaustive controls are carried out in each phase with the target of reaching the highest standards.
The appropriate selection of raw materials and control of all parameters which affect the extrusion technique supported by the ISO 9001 international standard, guarantees the quality of the extruded material.
The meticulous work completed for surface treatments results in achieving the most demanding European quality certificates such as QUALICOAT, QUALIDECO and SEA SIDE, for the powder coating process, and the EWWA-EURAS certificate for the anodising process. This recognises and guarantees the best level of quality.

Powder Coating

150+ Colours



17 powder coating plants Finishes:

RAL Chart
NCS Chart
Special Textured
Metallic
Wood Effect
Antibacterial

Quality Certificates:

Qualicoat
Seaside
Qualideco
Qualimarine

Anodising

6 anodising plants
13 colours
More than 110 finishes Maximum profile length: 8 m

Anodic protection classes:

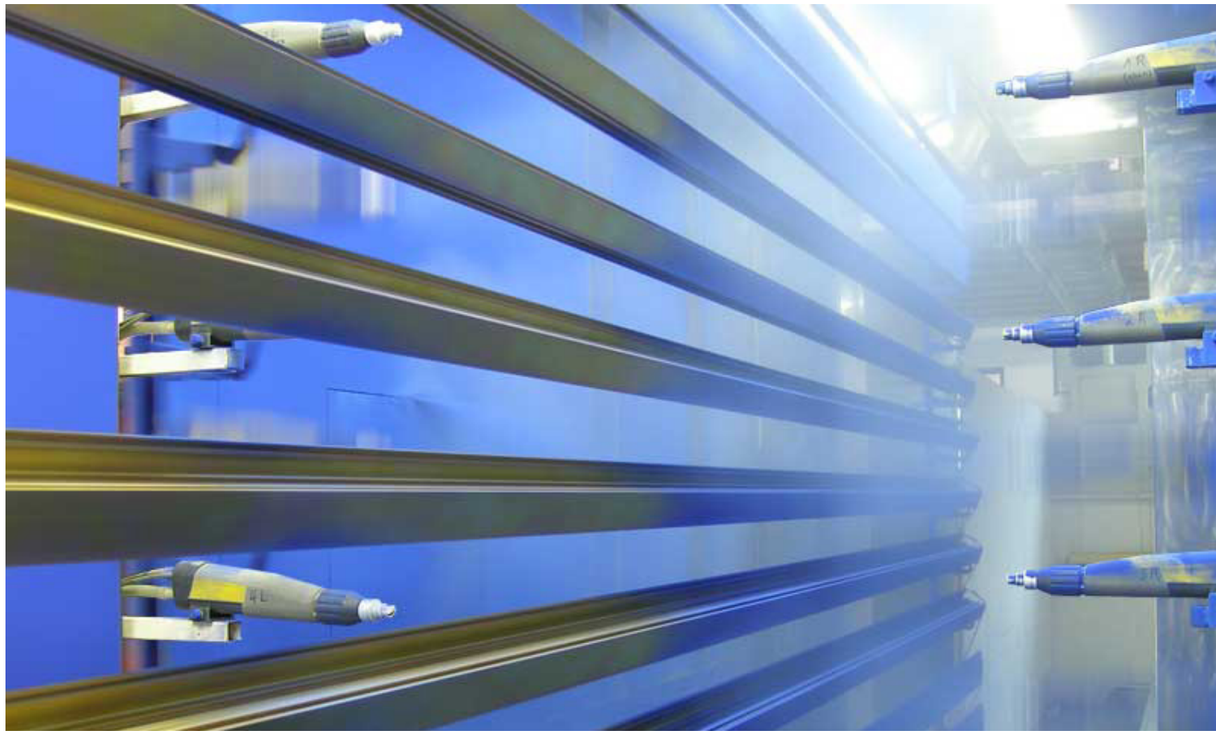
Class 5 5-9 µ
Class 10 10-14 µ
Class 15 15-19 µ
Class 20 20-24 µ
Class 25 > 25 µ

Mechanical treatments
Light Emery, Hard Emery, Bright, Re-polishing, Sand-blasting.

Colours:

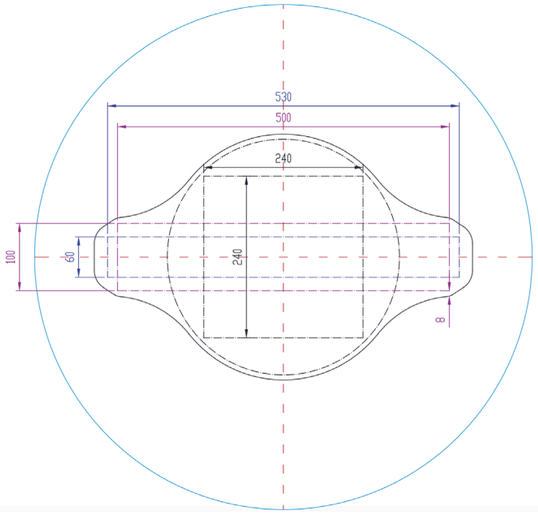
Silver
Stainless steel
Ivory
Bronze
Gold
Blue
Champagne
Green Black
Acier Bordeaux Grey
Copper

Quality Certificates:
Qualanod









Maximum width: 530mm
Maximum weight: 20kg/m
Miniumum weight: 80gr/m
Maximum length:24m

Foundry

Unlimited recyclability of aluminium

2 remelting plants: Asturias and Padrón (A Coruña) Production capacity: 43,000 t

Laboratories. Emission Spectrometers

Billet diameters: 144, 153, 178, 203, 254, 305 mm

Extrusion

150,000 t annual production capacity

20 extrusion presses

39,000 dies

Quality certificates: ISO 9001, DNV Marine & Bureau Veritas Extrusion according to European standards EN 755-9 and EN 12020 Heat treatment according to European standards EN 755-2

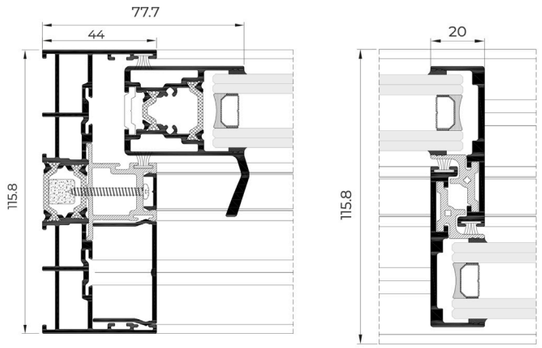
T4 - T5 - T6 - T64 - T66 - H111 - H112



COR VISION **sliding**

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.

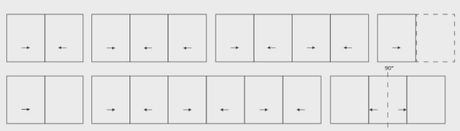




POSSIBILITIES

ACCESSIBILITY

OPENING POSSIBILITIES



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

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
Security test	PAS24	Passed

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



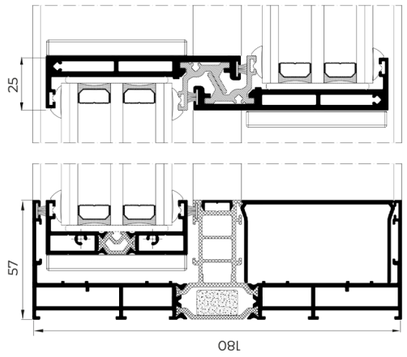
COR VISION **sliding**

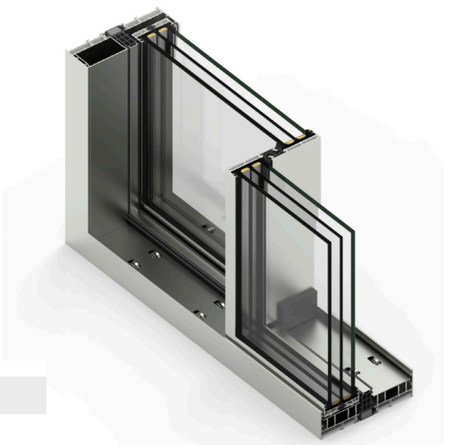
COR VISION

Plus

Sliding
Thermally broken

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.



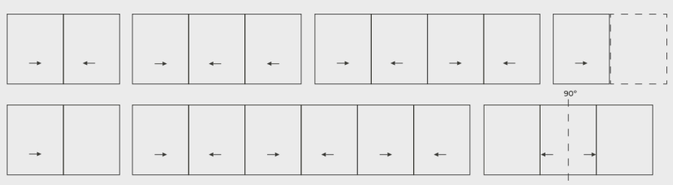


FEATURES

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

OPENING POSSIBILITIES



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



COR VISION Plus **sliding**

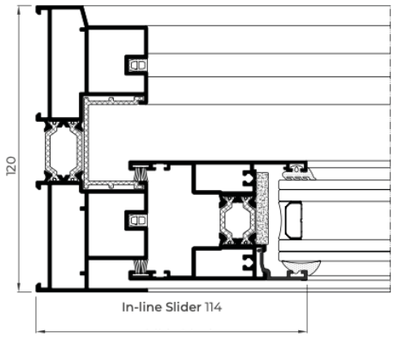
4700
Slider

Sliding
Thermally broken

This sliding system, becomes an ideal solution for closing large spans. It presents modern aesthetics in straight lines, a reduced interlock section and large glazed surfaces that ensure bright and comfortable areas, due to its thermal and acoustic performance.



In-line Slider



OPENING POSSIBILITIES



Sliding
1 rail (1 sash + 1 fixed light)
2, 3 rails
Galandage

POSSIBILITIES

ACCESSIBILITY

FEATURES

Transmittance		Uw ≥ 1,1 (W/m²K)
Acoustic insulation		Rw up to 40 dB
Air permeability		Class 3* / 4**
Water tightness		Class 7A
Wind resistance		Class C5* / C2**
Security test	PAS24	Passed

* Reference in-line slider 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
In-line Slider 280 Kg

Lift & Slide 300 Kg
Consult maximum weight and dimensions according to typologies



4700 **Sliding**

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.



FEATURES

Transmittance	Uw ≥ 0.8 (W/m²K)		
Air permeability	Class 4		
Water tightness	Class E750		
Wind resistance	Class C3		
Repeated openings and closings	50,000 cycles (Main swing door)	25,000 cycles (Even sashes)	
Security test	PAS24	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

OPENING POSSIBILITIES



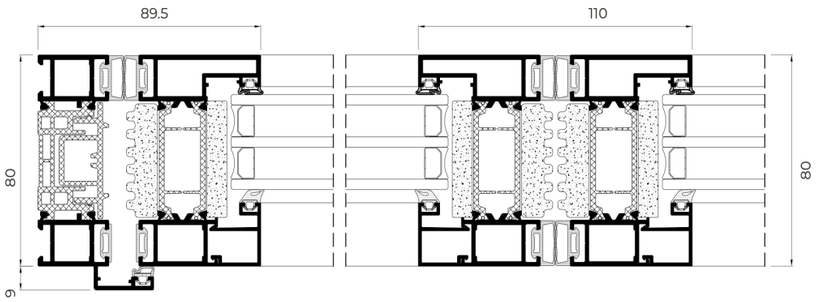
Inward	Outward
Up to 14 sashes	Up to 14 sashes 90° corner sash without mullion

POSSIBILITIES

SECURITY HARDWARE

ACCESSIBILITY

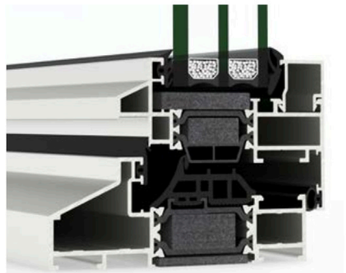
Sightlines
Frame 80 mm, Sash 80 mm
Polyamide Strip Length
Frame 45 mm Sash 45 mm
Profile Thickness
Door 1.8 mm
Glazing
Max. 48 mm, Min. 25 mm
Maximum Sash Dimensions
Width (L) 1200 mm,
Height (H) 3000 mm
Maximum Sash Weight
120 kg
Consult maximum weight and dimensions according to typologies



ALU - STEEL

European- Groove
Thermally broken

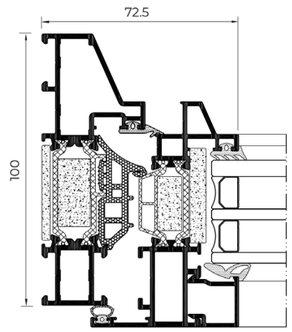
Inspired by classic line designs, the new Alu-Steel system allows to combine aluminium outstanding performances values with a steel-alike appearance. With a sightline of only 72.5 mm, Alu-Steel is a the perfect solution for new buildings and refurbishments, offering two different versions, classic or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



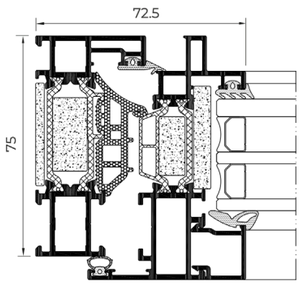
*Classic version



*Modern version



*Classic version



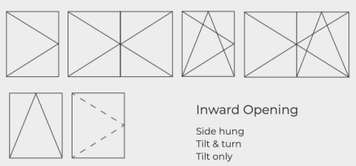
*Modern version

Sightlines
Modern frame 75 mm
Classic frame 100 mm
Sash 83 mm
Polyamide Strip Length
32-39 mm
Profile 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
160 kg
Consult maximum weight and dimensions according to typologies

POSSIBILITIES

- SECURITY HARDWARE
- CONCEALED HINGES
- CONCEALED HANDLE
- ACCESSIBILITY

OPENING POSSIBILITIES



Inward Opening
Side hung
Tilt & turn
Tilt only

Outward Opening
Side hung

FEATURES

Transmittance	Uw ≥ 0.83 (W/m²K)
Acoustic insulation	Rw up to 45 dB
Air permeability	Class 4
Water tightness	Class E1200
Wind resistance	Class C5

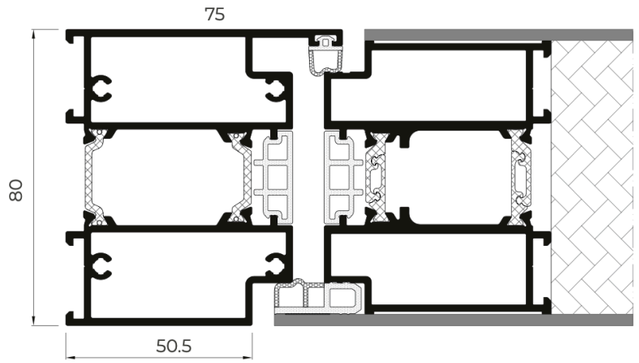
Reference test 1.23 x 1.48 m / 2 sashes



Pivot Door

Millenium Plus

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.





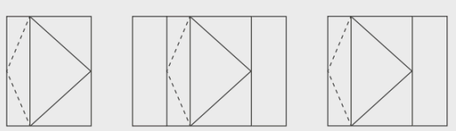
Sightlines
Frame 80 mm, Sash 80 mm
Polyamide Strip Length
24 / 26 mm
Profile Thickness
Door 2,0 mm
Panel
80 mm
Maximum Sash Dimensions
Width (L) 2100 (1700* + 400) mm
Height (H) 3000 mm **Maximum Sash Weight**
250 kg
Consult maximum weight and dimensions according to typologies
* Measured from the pivot axi

FEATURES

Transmittance		$U_D \geq 0{,}86$ (W/m²K)
Air permeability		Class 4
Water tightness		Class 5A
Wind resistance		Class C5

Reference test 1.20 x 2.00 m / 1 Sash

POSSIBILITIES



Pivoting

Pivot Door



Also available as a full glass option



Casement

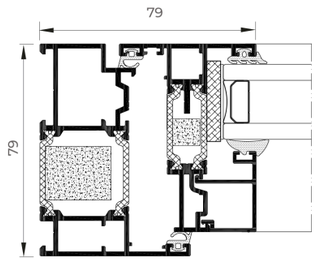
Hinged window system with thermal break and a slim sightline of just 65 mm, which allows a great brightness inside the room. With a modern aesthetic of straight lines, it has profiles tailored for residential and commercial projects, and both for new build and renovation. This system also stands out for its ease in fabrication and assembly, offering excellent performance in thermal and acoustic tests.



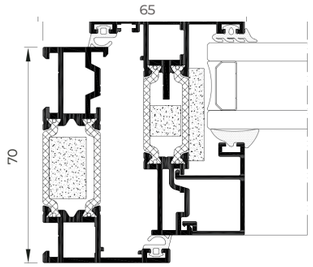
Flush Version



Standard Version



* Flush Version



* Standard Version

FEATURES

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

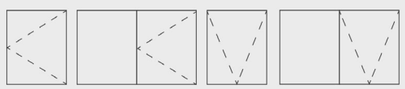
Reference test 1.438 x 1.33 m / 1 sash + 1 fixed light
Security test: Reference test 1.438 x 1.33 m / 1 sash

POSSIBILITIES

SECURITY HARDWARE

CONCEALED HINGES

OPENING POSSIBILITIES



Outward Opening

Side hung
Top hung

Sight Lines
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

Consult maximum weight and dimensions according to typologies



Casement





RESISTANCE TO ATMOSPHERIC AGENTS [CORTIZO COMFORT]

All of CORTIZO's enclosing systems are tested in the Test Laboratory at the Technological Center to guarantee the best performance in watertightness, air permeability and wind loads, endorsed by the maximum results in its test qualifications.

THERMAL INSULATION [CORTIZO ENERGY EFFICIENCY]

Nowadays energy efficiency in buildings is a demand made, both by the architects, as by the final customer aware of the importance of saving on heating costs and air conditioner. CORTIZO meets such challenge with systems for every climatic area with a high insulation coefficient to ensure the comfort in the residence.

ACOUSTIC INSULATION [CORTIZO SILENCE]

In order to transform the residence into a private space, intimate and free of pollution outdoor acoustics, CORTIZO has designed its enclosing systems with all the latest technological developments necessary to ensure indoors peace and relax.

UNLIMITED COLOUR RANGE [CORTIZO COLOURS]

The whole RAL colour chart in powder coating, exclusive powder coating, metallic, textured , wood effect, more than 100 finishes in anodized. Aluminum on the outside and wood in the inside, two-coloured finishes... An unlimited offer to create a colour harmony at home. Quality labels in every process: QUALICOAT, SEA-SIDE, QUALIDECO and QUALANOD.

AVANT-GARDE AESTHETICS [CORTIZO DESIGN]

We create tailor-made windows and façades for every project. Creativity to answer aesthetically and functionally to each demand. Aesthetic answers to the technical needs. Creativity at the service of habitable environments.

ENCLOSURES FOR LIFE [CORTIZO DURABILITY]

Aluminum is the most durable, long-standing and resistant material of those used in enclosures. Aluminum has the strength and a durability of the things that last a whole lifetime.

SUSTAINABLE SPIRIT [CORTIZO SUSTAINABILITY]

Respect for the environment is CORTIZO'S commitment. Using innocuous raw materials and products in all our manufacturing process and the limitless possibility of aluminum recycling, allows us to remove any creation of waste and environmental risks.

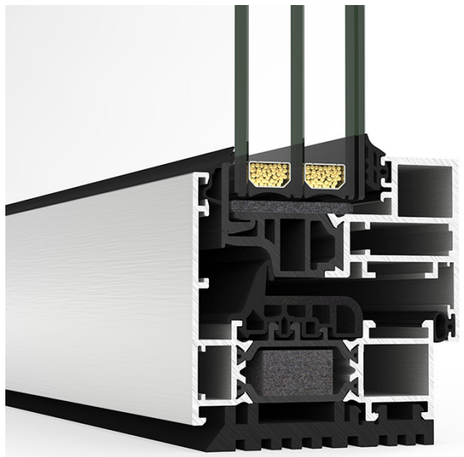


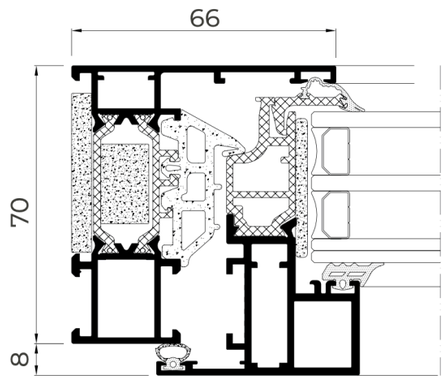
COR 70

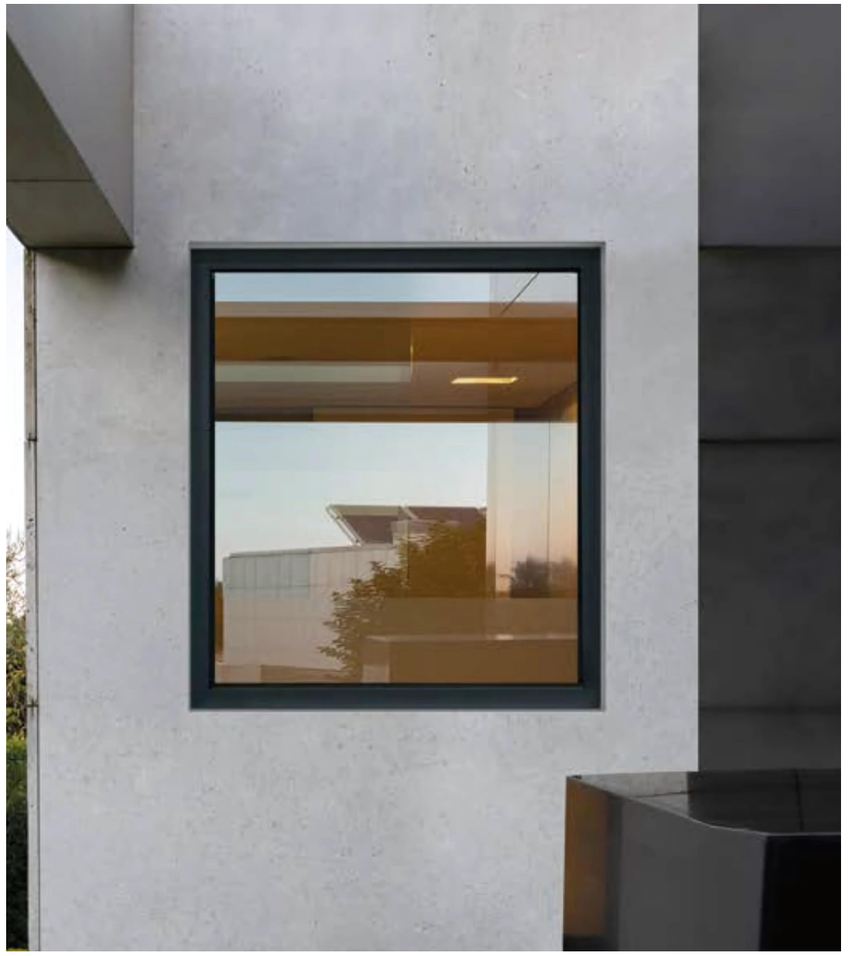
Hidden Sash

16 Groven
Thermally broken

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.



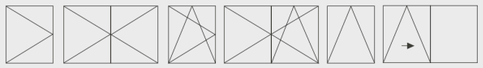




POSSIBILITIES

SECURITY HARDWARE · CONCEALED HINGES · CONCEALED HANDLE · CONCEALED DRAINAGE

OPENING POSSIBILITIES



Inward Opening

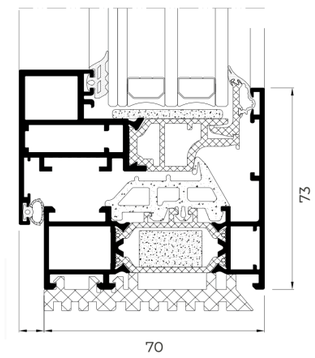
Side hung
Tilt & turn
Tilt only
Parallel Sliding

FEATURES

Transmittance		Uw ≥ 0.81 (W/m²K)
Transmittance (Half-Hidden Solution)		Uw ≥ 0.82 (W/m²K)
Acoustic insulation		Rw up to 46 dB
Acoustic insulation (Half-Hidden Solution)		Rw up to 44 dB
Air permeability		Class 4
Water tightness		Class E1650
Water tightness (Half-Hidden Solution)		Class E1800
Wind resistance		Class C5
Security test	PAS24	Passed

COR 70 Hidden Sash
Sightlines
Frame 70 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

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.

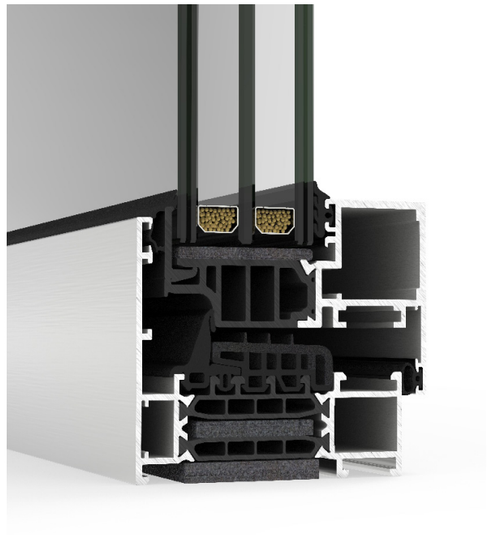
Cor-70 **Hidden Sash**

COR 80

Industrial

European Grove
Thermally broken

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 ≥ 0.7 (W/m²K)
Acoustic insulation		Rw up to 46 dB
Air permeability		Class 4
Water tightness		Class E1650
Wind resistance		Class C5

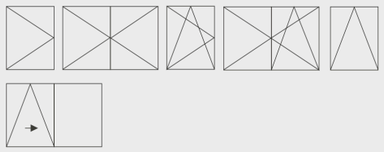
Reference test 1.23 x 1.48 m / 2 sashes

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

POSSIBILITIES

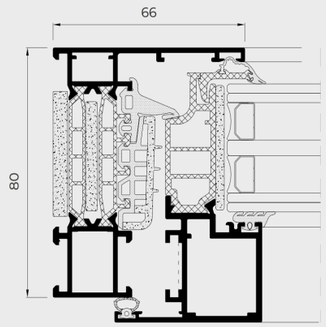
SECURITY HARDWARE
CONCEALED HINGES
CONCEALED HANDLE
CONCEALED DRAINAGE

OPENING POSSIBILITIES



Inward Opening

Side hung
Tilt & turn
Tilt only
Parallel Sliding



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.





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



MINIMALIST
HANDLE

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



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.

*Compatible with Bi-Fold.

WITH KEY
HANDLE

*Compatible With COR 70 & COR 80.



WINDOW
HANDLE

*Compatible With COR 70 & COR 80.



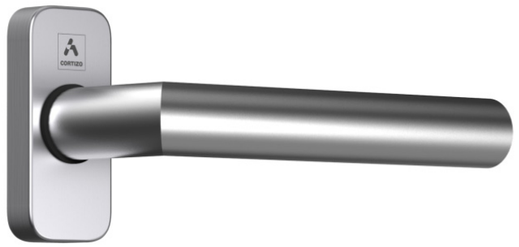
OFFSET
HANDLE

*Compatible With 4700



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



Door
Handles



STYLISH
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

*Compatible with Bi-Fold Plus



CORTIZO CREMONE
WITH KEY

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

*Compatible with COR 70 & COR 80



ART INFINITY
PULL HANDLE

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

*Compatible with Millenium Plus Pivot Door.



CORTIZO OFFSET
HANDLE

Handle specially designed for sliding systems
Reduced escutcheon
Suitable for exterior and interior
Spindle: 7 mm
Dimensions: 32 x 158 mm

*Compatible with 4700



CASEMENT
HANDLE

Modern, uncluttered stylish design
Push to open, key lockable handle
Spindle: 15, 30 & 40mm
Dimensions: 17.5 x 151.50 mm

*Compatible with Casement Window



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



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