

GENERAL CATALOGUE



GLASSFIRE

Fire-resistant glazed frames



GENERAL CATALOGUE

FIRE-RESISTANT GLAZED FRAMES

ed. 09 October 26

We are GLASSFIRE

Architectural and Technical Integration of Fire Prevention

Founded by the Rucco family, Glassfire is an Italian company specialized in the design and production of high-performance fire-resistant glazed frames. The company was established with the aim of overcoming the traditional compromise between safety requirements and aesthetic appearance, transforming fire compartmentalization systems into architectural highlights that ensure maximum transparency and visual continuity.

Constant research and development, combined with strict control of production processes, make Glassfire a key technical partner for architects, engineers, and fire safety professionals. Each system is developed to meet the specific needs of its environment, offering engineered solutions fully compliant with national and European passive fire safety regulations.









Protection and certified safety

Technical Precision at the Service of the Project

Glassfire systems integrate flexibly into tertiary, industrial, healthcare, and residential settings, ensuring effective compartmentalization of spaces without compromising the natural light supply. Each solution is engineered to strictly meet the three fundamental fire resistance criteria: the mechanical stability of the structure under thermal stress, airtightness against the passage of flames and toxic smoke, and high thermal insulation on the unexposed side.

This combination of technical precision and design versatility preserves the building's integrity, guarantees protected escape routes for occupants, and facilitates operational intervention by rescue teams.

Risk Management and the Selection of Glasses

Glass in a frame can break for various reasons, but what matters is that, once broken, it does not become dangerous. Safety glass is designed so that, if it breaks, it does not have sharp edges. There are two main types of safety glass: laminated (Breakage Type B) and tempered (Breakage Type C).

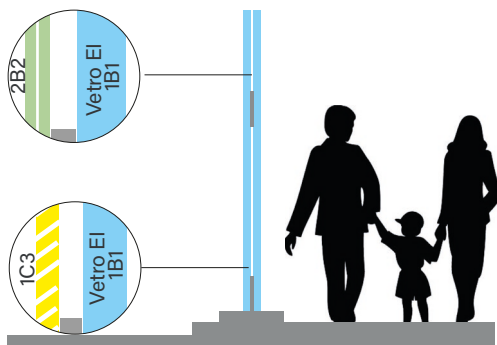
- **Laminated Glass:** Lamination is done by bonding two or more glass sheets with one or more invisible plastic films. If the glass breaks, the plastic holds the fragments together, preventing the scattering of pieces and reducing injury risks
- **Tempered glass:** The glass is heated and then rapidly cooled in a special furnace. This process creates internal stress that causes the glass to break into small, non-sharp fragments, reducing the risk of injury compared to regular glass.

The UNI 7697:2021 standard sets the criteria for selecting glass to be used in both external and internal applications, ensuring that the glass's performance meets the minimum safety requirements designed to protect users. The types described below represent only some of the possible interpretations of the principles contained in UNI 7697.

LEGEND: Laminated safety glass Tempered safety glass

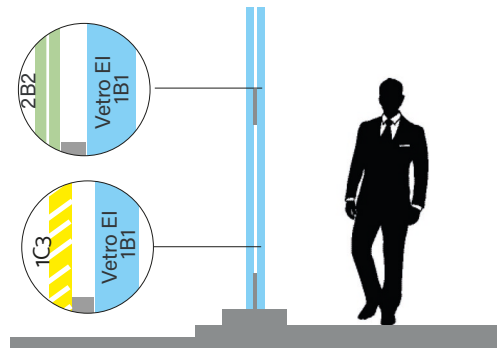
APPLICATIONS RESIDENTIAL

The patio doors that are accessible from both sides must be equipped with laminated or tempered safety glass.



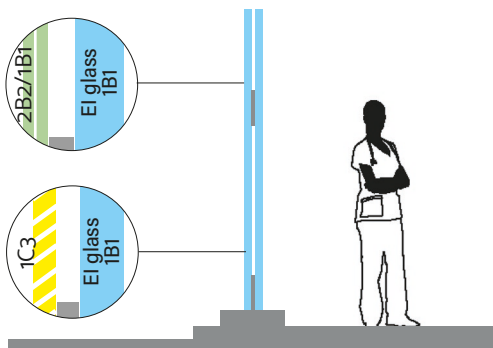
APPLICATIONS IN WORK ENVIRONMENTS

The windows intended for offices must have the same safety characteristics as residential glass, that is, laminated or tempered glass.



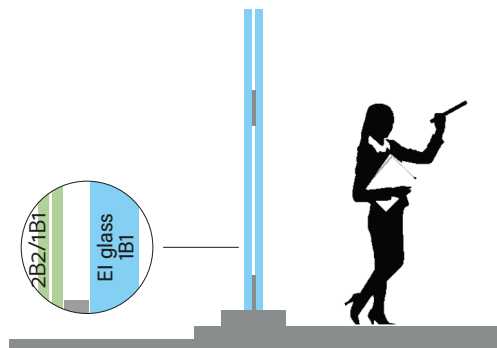
APPLICATIONS IN HIGH-TRAFFIC BUILDINGS

In hospitals, shopping centers, buildings intended for sports activities, cinemas, and gyms, the external glass must be laminated and tempered to ensure maximum safety.



APPLICATIONS IN SCHOOLS

In kindergartens and schools, the use of laminated glass is mandatory. Additionally, for applications where the lower edge of the glass is at a height less than or equal to 1 meter, it is necessary to use glass classified as 1B1.



Our certifications

Our fire-rated window frames are certified by prestigious international organizations, ensuring quality, safety, and high performance. The certifications confirm that the products comply with current regulations, providing effective solutions for the protection of people and property.

Product testing and compliance	
	Certifies fire safety compliance, the quality of materials, and the effectiveness of fire resistance.
	Assures that our products provide effective protection against risks and damages caused by fires.
	Ensures compliance with European fire safety standards by certifying the suitability of window frames for installation in outdoor environments.
	The window frames are certified according to EN standards, which establish the minimum fire resistance requirements, including resistance times and protection against the spread of flames and toxic gases. Compliance with EN standards ensures that our products meet the safety requirements demanded throughout Europe.
Installation and maintenance	
 Marco Rucco	The company is authorized to carry out installations in compliance with the UNI 11473-3 standard and the provisions set forth by Ministerial Decree dated September 1, 2021.
Sustainability and environmental impact	
	GLASSFIRE window frames help achieve LEED certification through the use of low-VOC emission materials and a design that optimizes natural light and sound insulation. In addition to ensuring the building's energy efficiency, we adopt responsible waste management and recyclable packaging, offering integrated solutions for modern green building.
	Glassfire is the first company in Italy in the window and door sector to obtain the UNI/PdR 88 certification, which guarantees full compliance with CAM and the European directives on Green Public Procurement.
Quality and business management	
	International certification of quality for management systems and products, guaranteeing standards of operational excellence.
	SOA OG1, an official certification that attests to our technical and managerial ability to manage and execute complex projects in the civil and industrial construction sector.



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Fire-rated glazed door

EI₂30/60 VITREX F6

EI₂90/120 VITREX F7

CE - UNI EN 1634-1



The **VITREX F6 and VITREX F7 fire doors** are constructed from profiled steel tubular frames with rebate flanges. They feature insulating panels made of calcium silicate and perimeter intumescent seals designed for hot smoke, as well as rebate seals for cold smoke. The structure allows for various mounting configurations through the combination of Z, L, and T sections.

The **door leaf** consists of T or Z profiles, flush with the frame, with glazing beads positioned either pushing or pulling. The central rail is located 950 mm from the floor, with an option to omit it.

The **fire-resistant glass**, supplied uninstalled, is laminated and tempered with intumescent material, classified 1B1, with thicknesses from 16 to 25 mm for EI₂30/60 doors and from 38 to 50 mm for EI₂90/120 doors.

The **hinges** are adjustable and fixed to the profiles for high stability. Fire locks feature a single-point locking mechanism with a three-key cylinder.

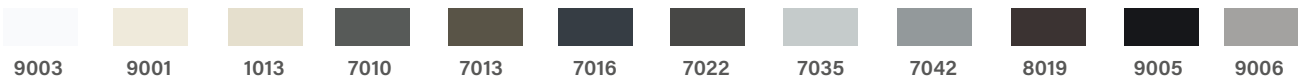
The **secondary leaf** includes a fire-resistant counter-lock for the top/bottom rod operation, integrated inside the profile with a floor socket. The entire system is completed with **door closers and customizable finishes in RAL colors**.

DIMENSIONS	30/60 1 door	30/60 2 doors	90/120 1 door	90/120 2 doors
Min. width with handle	600 mm		650 mm	
Asymmetric min. width with handle		980 mm (580+400)		1100 mm (700+400)
Symmetric min. width with handle		1160 mm (580+580)		1200 mm (600+600)
Asymmetric min. width with panic bar		1500 mm* (L2>500)		1700 mm* (L2>700)
Symmetric min. width with panic bar		1400 mm* (700+700)		1600 mm* (800+800)
Min. width with panic bar	750 mm		800 mm	
Max. width with or without panic bar	1450 mm	2576 mm	1410 mm	2400 mm
Min. height for escape routes	2080 mm	2080 mm	2080 mm	2080 mm
Max. height (with transom bar)	2748 mm	2748 mm	2510 mm	2510 mm
Max. height (without transom bar)	2500 mm	2500 mm	2510 mm	2510 mm
Surface area constraint	3,8 m²	6,6 m²	3,8 m²	5,6 m²

Clear opening with 90° door leaf	30/60 1 door	30/60 2 doors	90/120 1 door	90/120 2 doors
With lever panic bar	- 295 mm	- 430 mm	- 310 mm	- 470 mm
With push-bar	- 265 mm	- 370 mm	- 280 mm	- 410 mm
Passage through the leaf	- 200 mm	- 240 mm	- 215 mm	- 280 mm

**requirement to mark the main leaf*

Standard RAL finishes



STEEL LINE

PLUS fire-rated glazed door

El₂30/60 VITREX F6 PLUS

CE - UNI EN 1634-1



VITREX F6 PLUS fire-resistant doors are constructed from tubular steel profiles featuring rebate flanges. They are equipped with calcium-silicate-based insulation panels and perimeter intumescent seals for hot smoke, as well as rebate seals for cold smoke. The structure allows for various installation configurations through the combination of Z and L sections, with a thickness of 60 mm for the door leaves and 80 mm for the enlarged frame.

The **door leaf** consists of T or Z profiles, with glazing beads that can be positioned for either push-side or pull-side installation. A central crossbar is positioned 950 mm from the floor, though the option exists to omit it.

The **fire-resistant glass**—supplied uninstalled—is laminated and tempered, incorporates intumescent material, and holds a 1B1 classification; thicknesses are 16 mm and 25 mm for El₂30/60 rated units.

Adjustable concealed hinges are fixed to the profiles to ensure high stability.

The **fire-rated locks** feature a single locking point and a cylinder supplied with three keys. The secondary leaf includes a fire-rated counter-lock mechanism for top and bottom locking rods, housed within the profile and featuring a floor-mounted socket.

The system is completed by concealed **door closers and customizable RAL color finishes.**

DIMENSIONS	30/60 1 door	30/60 2 doors
Min. width with or without panic bar	800 mm	
Symmetrical min. width with or without panic bar		1600 mm (800+800)
Max. width with or without panic bar	1200 mm	2150 mm
Min. height for escape routes	2080 mm	2080 mm
Max. height (production)	2300 mm	2300 mm

Clear opening with 90° door leaf	30/60 1 door	30/60 2 doors
With lever panic bar	- 250 mm	- 340 mm
With push-bar	- 220 mm	- 280 mm
Passage through the leaf	- 160 mm	- 160 mm

**requirement to mark the main leaf*

Standard RAL finishes

9003	9001	1013	7010	7013	7016	7022	7035	7042	8019	9005	9006

Fire-rated glazed door thermally broken

El₂30/60 ATF2

CE - UNI EN 1634-1



ATF2 thermally broken fire-resistant doors are constructed from 1.5 mm thick continuously hot-dip galvanized steel profiles, featuring a thermal break system made of glass-fiber reinforced polyamide insulation. They are supplied with calcium silicate-based insulating panels, perimeter intumescent seals for hot smoke, and rebate seals for cold smoke inserted into the profiles. The structure allows for various installation configurations thanks to the way the frame sections (T, Z, L) interlock.

The **door leaf** is composed of T or Z profiles, selected based on the position of the glazing bead (push-side or pull-side mounting). A central crossbar positioned 950 mm from the floor is available as an option.

The **insulating fire-resistant glass**—supplied unmounted—consists of laminated, tempered panes with an intumescent interlayer, available in thicknesses of 36 mm (El₂30) or 43 mm (El₂60).

The **hinges** are of the two- or three-leaf adjustable type, secured to the leaf and frame using pins and threaded inserts.

The **fire-rated locks** feature a single locking point and a cylinder supplied with three keys. Double-leaf versions include a secondary lock mechanism within the inactive leaf profile to operate the top and bottom locking rods.

The assembly is completed by a **fire-rated handle, a door closer, and customizable RAL color finishes.**

DIMENSIONS	30/60 1 door	30/60 2 doors
Min. width with handle	650 mm	
Asymmetric min. width with handle		1100 mm (700+400)
Symmetric min. width with handle		1200 mm (600+600)
Asymmetric min. width with panic bar		1600 mm* (L2>600)
Symmetric min. width with panic bar		1500 mm* (750+750)
Min. width with panic bar	800 mm	
Max. width with or without panic bar	1370 mm	2300 mm
Min. height for escape routes	2080 mm	2080 mm
Max. height (with transom bar)	2750 mm	2750 mm
Max. height (without transom bar)	2510 mm	2510 mm
Surface area constraint		

Clear opening with 90° door leaf	90/120 1 door	30/60 2 doors
With lever panic bar	- 320 mm	- 470 mm
With push-bar	- 285 mm	- 410 mm
Passage through the leaf	- 225 mm	- 285 mm

**requirement to mark the main leaf*

Standard RAL finishes

9003	9001	1013	7010	7013	7016	7022	7035	7042	8019	9005	9006

Fire-rated glazed door

EI₂30/60 VITREX F8EI₂90/120 VITREX F4

UNI EN 1634-1



VITREX F8 and VITREX F4 fire-resistant doors feature a load-bearing frame made of galvanized tubular steel profiles (1.5 mm thick), clad in extruded Aluminium alloy (UNI 6060). Internally, they contain calcium silicate-based insulation panels. The structure allows for various mounting configurations through the combination of T, Z, and L sections, with a thickness of 79 mm for EI₂30/60 units and 94–104 mm for EI₂90/120 units.

The **door leaf consists** of T or Z profiles, flush with the frame, featuring glazing beads that can be positioned for either push-side or pull-side glazing. A central crossbar is located 950 mm above the floor, though the option exists to omit it.

The **fire-resistant glass**—supplied uninstalled—is laminated and tempered, incorporates intumescent material, and holds a 1B1 impact classification; thicknesses range from 16 mm to 25 mm for EI₂30/60 units and from 38 mm to 50 mm for EI₂90/120 units.

Adjustable **three-leaf hinges**, secured to both the leaf and the frame using pins and threaded backing plates, allow for the adjustment of the clearance gap between the door leaf and the frame in terms of both width and height.

The **fire-rated locks** are single-point locking mechanisms supplied with a cylinder and three keys. The secondary leaf is equipped with a fire-rated counter-lock to operate the top and bottom locking rods; this mechanism is housed within the profile and includes a floor-mounted socket. The package is completed by a **safety fire-rated handle, a door closer, and finishes in RAL colors.**

DIMENSIONS	30/60 1 door	30/60 2 doors	90/120 1 door	90/120 2 doors
Min. width with handle	700 mm		800 mm	
Asymmetric min. width with handle		1300 mm (875+425)		1420 mm (995+425)
Symmetric min. width with handle		1400 mm (700+700)		1420 mm (710+710)
Asymmetric min. width with panic bar		1500 mm* (L ₂ >500)		1700 mm* (L ₂ >700)
Symmetric min. width with panic bar		1400 mm* (700+700)		1600 mm* (800+800)
Min. width with panic bar	800 mm		900 mm	
Max. width with or without panic bar	1450 mm	2590 mm	1450 mm	2400 mm
Min. height for escape routes	2090 mm	2090 mm	2090 mm	2090 mm
Max. height (with transom bar)	2740 mm	2740 mm	2740 mm	2740 mm
Max. height (without transom bar)	2500 mm	2500 mm	2500 mm	2500 mm
Surface area constraint	3,8 m ²	6,6 m ²	3,2 m ²	5,6 m ²

Clear opening with 90° door leaf	30/60 1 door	30/60 2 doors	90/120 1 door	90/120 2 doors
With lever panic bar	- 340 mm	- 510 mm	- 360 mm	- 540 mm
With push-bar	- 310 mm	- 450 mm	- 330 mm	- 480 mm
Passage through the leaf	- 246 mm	- 320 mm	- 260 mm	- 360 mm

*requirement to mark the main leaf

TEST SAMPLE - RC4 BURGLAR-RESISTANCE PERFORMANCE

UNI EN 1627:2011 / 1628:2016 / 1629:2016 / 1630:2016

Profile thickness: 104 mm

W x H: 1400 x 2400 mm

Push side: panic bar and 3-point locking system

Pull side: fixed knob and security cylinder.

Standard RAL finishes

EI₂30/60 See Outdoor Aluminium

EI₂90/120

OX Silver / RAL 9010 Soft

Fire-rated glazed door thermally broken

EI₂30/60 ALU GLASS R1/R2EI₂90 ALU GLASS R6EI₂120 ALU VITREX F4

CE - UNI EN 1634-1



The **ALU R1, R2, R6 and ALU VITREX F4 fire-resistant doors** are constructed using specially drawn, flush-fitting extruded Aluminium profiles (alloy EN AW6060) and feature perimeter intumescent hot-smoke seals. Internally, calcium-silicate-based insulating panels provide excellent protection.

The **door leaf** consists of T- or Z-profiles that sit flush with the frame, featuring glazing beads that can be positioned for either push-side or pull-side installation. A central crossbar is positioned 950 mm from the floor, though the option exists to omit it.

The **fire-resistant glass**—supplied unmounted—is laminated and tempered, incorporates intumescent material, and holds a 1B1 classification; maximum thicknesses are 43 mm for EI₂30/60 units and 61 mm for EI₂90/120 units.

Adjustable **three-leaf hinges**, secured to both the leaf and the frame via threaded pins, allow for the adjustment of the clearance gap between the door leaf and the frame in terms of both width and height.

The **locking system** consists of a single-point lock with a cylinder and three keys.

The assembly is completed by a **fire-rated handle, a door closer, a fixed trip-free floor threshold, and finishes in RAL colors.**

DIMENSIONS	30/60 1 door	30/60 2 doors	90/120 1 door	90/120 2 doors
L min con maniglia	700 mm		750 mm	
L min asimmetrica		1220 mm (820+400)		1220 mm (820+400)
L min simmetrica		1220 mm (610+610)		1280 mm (640+640)
L min asimmetrica con maniglione antipanico		1500 mm* (L2>500)		1600 mm* (L2>600)
L min simmetrica con maniglione antipanico		1400 mm* (700+700)		1500 mm* (750+750)
L min con maniglione antipanico	800 mm		900 mm	
L max con o senza maniglione	1370 mm	2400 mm	1370 mm	2300 mm
H min per vie di esodo	2080 mm	2080 mm	2080 mm	2080 mm
H max realizz. with a cross-brace	2750 mm	2750 mm	2740 mm	2740 mm
H max realizz. senza traverso	2500 mm	2500 mm	2500 mm	2500 mm
Vincolo di superficie	3,5 m ²	6,0 m ²	3,0 m ²	5,3 m ²

Clear opening with 90° door leaf	30/60 1 door	30/60 2 doors	90/120 1 door	90/120 2 doors
With lever panic bar	- 310 mm	- 470 mm	- 320 mm	- 500 mm
With push-bar	- 280 mm	- 410 mm	- 290 mm	- 440 mm
Passage through the leaf	- 210 mm	- 280 mm	- 220 mm	- 320 mm

**requirement to mark the main leaf*

Standard RAL finishes: smooth matte

9010	1013	6005	8017	1015	1019	3003	3005	5010	5024	6009	6021
6029	7001	7006	7016	7035	7039	7040	8003	8014	8019	9002	9005

Fire-rated glazed door

EW 120 VITREX F10

UNI EN 1634-1



VITREX F10 fire-resistant glazed doors are constructed from flush-fitting EN AW 6060 extruded Aluminium profiles, featuring an internal core of fire-resistant calcium silicate and sulfate-based materials, resulting in a total frame thickness of 72 mm. They are equipped with perimeter intumescent seals for hot smoke and rebate seals for cold smoke. The structural design allows for various installation configurations through the combination of different frame section profiles (T, Z, and L).

The **door leaf** consists of T or Z profiles that sit flush with the frame; the glazing bead can be installed on either the push or pull side, and the unit includes a fixed, trip-free floor threshold. A central crossbar positioned 950 mm above the floor is available as an option.

The **insulating fire-resistant glass**—supplied uninstalled—consists of laminated, tempered panes with an interlayer of intumescent material (class 1B1); the glass thickness is 13 mm for interior use or 36 mm for exterior use.

The **hinges** are adjustable (two- or three-leaf types) and are secured to the leaf and frame using threaded pins.

The **fire-rated lock** features a single locking point and a cylinder supplied with three keys.

The system is completed by a **safety handle, a door closer, and finishes in RAL colors.**

DIMENSIONS	EW120 1 leaf	EW120 2 leaves
Min. width with handle	700 mm	
Asymmetric min. width with handle		1220 mm (820+400)
Symmetric min. width with handle		1220 mm (610+610)
Asymmetric min. width with panic bar		1500 mm* (L2>500)
Symmetric min. width with panic bar		1400 mm* (700+700)
Min. width with panic bar	800 mm	
Max. width with or without panic bar	1450 mm	2400 mm
Min. height for escape routes	2080 mm	2080 mm
Max. height (with transom bar)	2750 mm	2750 mm
Max. height (without transom bar)	2500 mm	2500 mm
Surface area constraint	3,5 m2	6,0 m2

Clear opening with 90° door leaf	EW120 1 leaf	EW120 2 leaves
With lever panic bar	- 310 mm	- 470 mm
With push-bar	- 280 mm	- 410 mm
Passage through the leaf	- 210 mm	- 280 mm

**requirement to mark the main leaf*

Standard RAL finishes: smooth matte

9010	1013	6005	8017	1015	1019	3003	3005	5010	5024	6009	6021
6029	7001	7006	7016	7035	7039	7040	8003	8014	8019	9002	9005

Automatic fire-resistant sliding door

El₂30/60/90 VITREX F13



VITREX F13 fire-resistant sliding doors feature a load-bearing frame made of 15/10 gauge galvanized tubular steel profiles, clad in extruded Aluminium (UNI 6060 alloy). Internally, they contain calcium silicate-based insulation panels.

The **door leaves**—79 mm thick for El₂30/60 units and 94 mm thick for El₂90 units—do not utilize a redundant system.

The **fire-resistant glass** (supplied uninstalled) is laminated and tempered, incorporates intumescent material, and is rated 1B1; thicknesses are 16 mm and 25 mm for El₂30/60 units, and 38 mm for El₂90 units.

The assembly is completed by **perimeter intumescent seals, optional floor locks for night-time security, and finishes in RAL colors.**

Provide a reinforcement element at the window/door sliding track, in accordance with the specifications issued by the Technical Department.

DIMENSIONS	30/60 1 door	30/60 2 doors	90 1 leaf	90 2 leaves
W.O.W. min	700 mm	1300 (650 + 650) mm	700 mm	1200 (600 + 600) mm
W.O.W. max	1320 mm	2400 (1200 + 1200) mm	1200 mm	2200 (1100 + 1100) mm
W.O.H. min	2000 mm	2000 mm	2000 mm	2000 mm
W.O.H. max	2600 mm	2600 mm	2400 mm	2400 mm
Motorized runner volume	(2 x W.O.W.) + 200 mm	(2 x W.O.W.) + 100 mm	(2 x W.O.W.) + 200 mm	(2 x W.O.W.) + 100 mm

Composite sliding door: to meet design requirements in any project, single- and double-leaf sliding doors can be configured with side panels.

Standard RAL finishes

 OX Silver / RAL 9010 Soft

Installation

Not suitable for installation on escape routes/emergency exits.

Door Operation

The selector switch allows for two operating modes: automatic or closed. In the event of an alarm and/or power failure (220V), the door—regardless of the mode previously set (open or automatic)—will immediately close, overriding any connected accessories (whether for opening commands or safety functions). The door will remain closed during the alarm state. Normal operation will resume only after the alarm condition has cleared.

STEEL LINE

Fire-resistant window

El₂30/60 VITREX F6

El₂90/120 VITREX F7

CE - UNI EN 1634-1



VITREX F13 fire-resistant sliding doors feature a load-bearing frame made of 15/10 gauge galvanized tubular steel profiles, clad in extruded Aluminium (UNI 6060 alloy). Internally, they contain calcium silicate-based insulation panels.

The **door leaves**—79 mm thick for El₂30/60 units and 94 mm thick for El₂90 units—do not utilize a redundant system.

The **fire-resistant glass** (supplied uninstalled) is laminated and tempered, incorporates intumescent material, and is rated 1B1; thicknesses are 16 mm and 25 mm for El₂30/60 units, and 38 mm for El₂90 units.

The assembly is completed by **perimeter intumescent seals, optional floor locks for night-time security, and finishes in RAL colors.**

DIMENSIONS	30/60 1 door	30/60 2 doors	90/120 1 door	90/120 2 doors
Min. frame dimensions (W x H)	480 x 610 mm	1000 (500 + 500) x 610 mm	600 x 610 mm	1100 (550 + 550) x 610 mm
Max. frame dimensions (W x H)	1220 x 2000 mm	2000 x 2000 mm	1220 x 1800 mm	1800 x 1800 mm
Central handle height	W.O.H. ≤ 1300 mm	W.O.H. ≤ 1300 mm	W.O.H. ≤ 1300 mm	W.O.H. ≤ 1300 mm
Handle height 650 mm	W.O.H. > 1300 mm	W.O.H. > 1300 mm	W.O.H. > 1300 mm	W.O.H. > 1300 mm
Two-point locking mechanism	W.O.H. > 2000 mm	W.O.H. > 2000 mm	W.O.H. > 1800 mm	W.O.H. > 1800 mm

Attention	
Single casement window	The width of the opening must be less than the height.
Double-casement window	The width of the opening must be less than twice the height.

Standard RAL finishes

9003	9001	1013	7010	7013	7016	7022	7035	7042	8019	9005	9006

Fire-resistant window thermally broken

EI₂30/60 ATF2

CE - UNI EN 1634-1



ATF2 thermally broken fire-resistant windows are constructed from slotted, galvanized steel profiles, featuring 18/10 gauge rebate flanges that are electrically welded at the corners. They incorporate calcium-silicate-based insulating panels, as well as perimeter intumescent seals for hot smoke and rebate seals for cold smoke inserted into the profiles. The structural design allows for various mounting configurations through the combination of frame sections (Z- or L-profiles).

The **insulating fire-resistant glass**—supplied uninstalled—consists of laminated, tempered panes with an intumescent interlayer, available in thicknesses of 36 mm (EI₂30) or 43 mm (EI₂60).

The **hinges** are of the two- or three-leaf type; they are adjustable and secured using pins and threaded inserts.

The **fire-rated locking system** features a single locking point (with an optional half-cylinder available upon request), complemented by a self-locking mechanism on the secondary leaf.

The assembly is completed by **a half-handle, a door closer, and finishes in RAL colors.**

DIMENSIONS	30/60 1 door	30/60 2 doors
Min. frame dimensions (W x H)	600 x 610 mm	1100 (550 + 550) x 610 mm
Max. frame dimensions (W x H)	1220 x 2000 mm	1800 x 2000 mm
Central handle height	W.O.H.≤ 1300 mm	W.O.H.≤ 1300 mm
Handle height 650 mm	W.O.H.> 1300 mm	W.O.H.> 1300 mm
Two-point locking mechanism	W.O.H.> 1800 mm	W.O.H.> 2000 mm

Attention	
Single casement window	The width of the opening must be less than the height.
Double-casement window	The width of the opening must be less than twice the height.

Standard RAL finishes

9003	9001	1013	7010	7013	7016	7022	7035	7042	8019	9005	9006
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INDOOR ALUMINIUM LINE

Fire-resistant window

El₂30/60 VITREX F8

El₂90/120 VITREX F4

UNI EN 1634-1



VITREX F8 and VITREX F4 fire-resistant windows feature a load-bearing frame made of galvanized tubular steel (15/10 gauge), clad in extruded Aluminium (UNI 6060 alloy) that provides excellent thermal protection. The structure allows for various mounting configurations through the combination of T, Z, and L profiles, with thicknesses ranging from 74 to 79 mm for El₂30/60 units and from 94 to 104 mm for El₂90/120 units.

The **fire-resistant glass**—supplied unmounted—is laminated and tempered, incorporates intumescent material, and is rated 1b1; thicknesses are 16 and 25 mm for El₂30/60 units, and 38 and 50 mm for El₂90/120 units.

Adjustable **three-leaf hinges**, secured to both the sash and the frame using pins and threaded backing plates, allow for the adjustment of the clearance gap between the sash and the frame in terms of both width and height.

The **fire-rated locks** feature a single locking point. For double-leaf versions, a secondary fire-rated lock mechanism controls the top and bottom locking rods and is housed within the profile, featuring a floor-mounted socket.

The system is completed by **a half-handle, a door closer, and finishes in RAL colors.**

DIMENSIONS	30/60 1 door	30/60 2 doors	90/120 1 door	90/120 2 doors
Min. frame dimensions (W x H)	540 x 610 mm	1280 (640 + 640) x 610 mm	700 x 610 mm	1420 (710 + 710) x 610 mm
Max. frame dimensions (W x H)	1300 x 2000 mm	2000 x 2000 mm	1220 x 1800 mm	1800 x 1800 mm
Central handle height	W.O.H. ≤ 1300 mm	W.O.H. ≤ 1300 mm	W.O.H. ≤ 1300 mm	W.O.H. ≤ 1300 mm
Handle height 650 mm	W.O.H. > 1300 mm	W.O.H. > 1300 mm	W.O.H. > 1300 mm	W.O.H. > 1300 mm
Two-point locking mechanism	W.O.H. > 2000 mm	W.O.H. > 2000 mm	W.O.H. > 1800 mm	W.O.H. > 1800 mm

Attention	
Single casement window	The width of the opening must be less than the height.
Double-casement window	The width of the opening must be less than twice the height.

Standard RAL finishes

El₂30/60 See Outdoor Aluminium

El₂90/120  OX Silver / RAL 9010 Soft

Fire-resistant window thermally broken

El ₂ 30/60 ALU GLASS R1/R2	El ₂ 90 ALU GLASS R6	El ₂ 120 ALU VITREX F4
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CE - UNI EN 1634-1



The **ALU R1, R2, R6 and ALU VITREX F4 fire-resistant windows** are constructed using specially drawn extruded Aluminium profiles (alloy EN AW6060) and feature perimeter self-expanding hot-smoke seals. Internally, calcium silicate-based insulating panels provide excellent protection. The structure allows for various installation configurations through the combination of Z and L sections, with a total thickness of 72 mm for El₂30/60 units and 89 mm for El₂90/120 units.

The sash consists of Z-profiles that sit flush with the frame, featuring glazing beads on the pull side.

The **fire-resistant glass**—supplied uninstalled—is laminated and tempered, incorporates intumescent material, and is rated 1B1; maximum thicknesses are 43 mm for El₂30/60 units and 61 mm for El₂90/120 units.

Adjustable **hinges**, attached to both the sash and the frame, allow for the adjustment of the clearance gap between the sash and the frame in terms of both width and height.

Single-point locking mechanisms are used. The assembly is completed by **a half-handle, drainage hole covers, a door closer, and RAL color finishes.**

DIMENSIONS 1 door	30/60	90/120
Min. frame dimensions (W x H)	540 x 610 mm	600 x 610 mm
Max. frame dimensions (W x H)	1300 x 2300 mm	1220 x 2000 mm
Central handle height	W.O.H. ≤ 1300 mm	W.O.H. ≤ 1300 mm
Handle height 650 mm	W.O.H. > 1300 mm	W.O.H. > 1300 mm
Two-point locking mechanism	W.O.H. > 2000 mm	W.O.H. > 1800 mm
DIMENSIONS 2 doors	30/60	90/120
Min. frame dimensions (W x H)	1240 (620 + 620) x 610 mm	1240 (620 + 620) x 610 mm
Max. frame dimensions (W x H)	2200 x 2300 mm	2000 x 2000 mm
Central handle height	W.O.H. ≤ 1300 mm	W.O.H. < 1000 mm
Handle height 650 mm	W.O.H. > 1300 mm	W.O.H. > 1300 mm
Two-point locking mechanism	W.O.H. > 2000 mm	W.O.H. > 1800 mm
DIMENSIONS double-leaf version with independent leaves	30/60	
Min. frame dimensions (W x H)	1000 (500 + 500) x 610 mm	
Max. frame dimensions (W x H)	2200 x 2300 mm	
Central handle height	W.O.H. ≤ 1300 mm	
Handle height 650 mm	W.O.H. > 1300 mm	
Two-point locking mechanism	W.O.H. > 2000 mm	

Attention		
Single casement window	The width of the opening must be less than the height.	
Double-casement window e doppio battente	The width of the opening must be less than twice the height.	

Standard RAL finishes: smooth matte

9010	1013	6005	8017	1015	1019	3003	3005	5010	5024	6009	6021
6029	7001	7006	7016	7035	7039	7040	8003	8014	8019	9002	9005

Fire-resistant window

EW 120 VITREX F10

UNI EN 1634-1



VITREX F10 fire-resistant windows are constructed from EN AW 6060 extruded Aluminium profiles, featuring an internal core of fire-resistant silicate and calcium sulfate-based materials, resulting in an overall frame thickness of 72 mm with an open-joint design. They are equipped with perimeter intumescent seals for hot smoke and rebate seals for cold smoke. The structural design allows for various installation configurations through the combination of frame sections (Z and L profiles).

The **window leaves** consist of overlapping Z-profiles with glazing beads positioned on the pull side.

The insulating **fire-resistant glass**—supplied uninstalled—comprises laminated, tempered panes with an interlayer of intumescent material (class 1B1) and a total thickness of 43 mm for exterior use.

The **hinges** are of the slim, sash-mounted type; they are secured using threaded plates and are adjustable via set screws.

The **locking system** features a single-point lock (with an optional half-cylinder available upon request), complemented by a self-locking mechanism on the secondary leaf.

The assembly is completed by a **half-handle, a door closer, and finishes in RAL colors.**

DIMENSIONS 1 leaf	EW 120
Min. frame dimensions (W x H)	540 x 610 mm
Max. frame dimensions (W x H)	1300 x 2300 mm
Central handle height	W.O.H.≤ 1300 mm
Handle height 650 mm	W.O.H.> 1300 mm
Two-point locking mechanism	W.O.H.> 2000 mm

DIMENSIONS 2 leaves	EW 120
Min. frame dimensions (W x H)	1240 (620 + 620) x 640 mm
Max. frame dimensions (W x H)	2200 x 2300 mm
Central handle height	W.O.H.≤ 1300 mm
Handle height 650 mm	W.O.H.> 1300 mm
Two-point locking mechanism	W.O.H.> 2000 mm

DIMENSIONS double-leaf with vertical transom	EW 120
Min. frame dimensions (W x H)	1000 (500 + 500) x 610 mm
Max. frame dimensions (W x H)	2200 x 2300 mm
Central handle height	W.O.H.≤ 1300 mm
Handle height 650 mm	W.O.H.> 1300 mm
Two-point locking mechanism	W.O.H.> 2000 mm

Attention

Single casement window	The width of the opening must be less than the height.
Double-sash and double-leaf window	The width of the opening must be less than twice the height.

Standard RAL finishes: smooth matte

9010	1013	6005	8017	1015	1019	3003	3005	5010	5024	6009	6021
6029	7001	7006	7016	7035	7039	7040	8003	8014	8019	9002	9005

Fire-resistant hopper window thermally broken

EI₂30/60/90 ALU GLASS R3

CE - UNI EN 1634-1



ALU R3 fire-resistant hopper windows are constructed using specially drawn extruded Aluminium profiles (alloy EN AW-6060). They are fitted with cold-smoke rebate seals and perimeter intumescent seals for hot smoke. The total structural thickness is 72 mm for EI₂30/60 units and 81 mm for EI₂90 units.

The **open-joint sash** is composed of Z-profiles. The fire-resistant glazing—supplied uninstalled and securely housed—consists of laminated tempered panes with an intumescent interlayer; the glass thickness is 36 mm for EI₂30 units, 43 mm for EI₂60 units, and 47 mm for EI₂90 units. Adjustable hinges are attached to both the sash and the frame using pins that regulate the clearance gap between the sash and the frame in terms of both width and height.

The assembly is completed by **drainage caps, opening restrictor arms, a pair of upper thermal locking pins, a 24V actuator, and RAL color finishes.**

DIMENSIONS	30/60	90
Min. frame dimensions (W x H)	500 x 460 mm	500 x 460 mm
Max. frame dimensions (W x H)	2300 x 1150 mm	2000 x 1000 mm
1 Actuator	W.O.W. da 500 a 1400 mm	W.O.W. da 500 a 1400 mm
2 Actuators	W.O.W. da 1400 a 2300 mm	W.O.W. da 1400 a 2000 mm

Standard RAL finishes: smooth matte

9010	1013	6005	8017	1015	1019	3003	3005	5010	5024	6009	6021
6029	7001	7006	7016	7035	7039	7040	8003	8014	8019	9002	9005

STEEL LINE

Fixed fire-resistant glazed unit

El₂30/60 VITREX F5

El₂90/120 VITREX F1.1

UNI EN 1364-1



VITREX F5 and VITREX F1.1 fixed fire-resistant glazed units are constructed from profiled steel tubing featuring rebate flanges. They are equipped with calcium silicate-based insulating panels and perimeter intumescent seals for hot smoke. The frame has a total thickness of 60 mm for El₂30/60 units and 80 mm for El₂90/120 units.

The **fire-resistant glass**—supplied uninstalled—is laminated and tempered, incorporates intumescent material, and is rated 1B1; thicknesses are 16 mm and 25 mm for El₂30/60 units, and 38 mm and 50 mm for El₂90/120 units.

Customizable RAL color finishes.

WITH A CROSS-BRACE

vertical

horizontal

double

DIMENSIONS	30/60	90/120
Min. W.O.W.	350 mm	350 mm
Max. W.O.H.	3200 mm	3000 mm
Max. W.O.W.	No limits	No limits
Max. glass W x H (recommended)	1600 x 2800 mm	1300 x 2500 mm

WITH A REGULAR ARCH

depressed arch

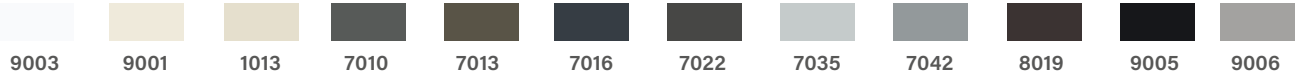
Gothic

round arch

DIMENSIONS	30/60	90/120
Minimum radius - standard profile	≥ 370 mm	≥ 370 mm
Diameter - standard profile	≥ 740 mm	≥ 740 mm

Can be produced only with L-profiles. Cover profiles are excluded.

Standard RAL finishes



STEEL LINE

Fixed fire-resistant glazed unit thermally broken

El₂ 30/60/90 ATF1

UNI EN 1364-1

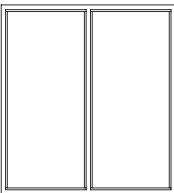


The **ATF1 bidirectional fire-resistant fixed glazing** units (El₂ 30/60/90) feature thermally broken steel profiles (1.5 mm thick, continuously hot-dip galvanized) incorporating a thermal break made of glass-fiber reinforced polyamide. They are supplied with calcium-silicate-based insulating panels and perimeter self-expanding hot-smoke seals. The structure consists of regular glazed panels—with transoms positioned according to specific technical criteria—resulting in an overall frame thickness of 70 mm.

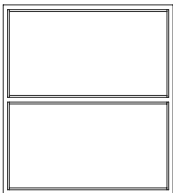
The **fire-resistant glass** (supplied uninstalled) consists of laminated, tempered panes with an intumescent interlayer (class 1B1); thickness varies according to the fire resistance class: 36 mm (El₂30), 43 mm (El₂60), or 47 mm (El₂90).

The system offers various surface finish options, including **RAL powder coating or a matte-textured ("Grinz") fluoropolymer finish.**

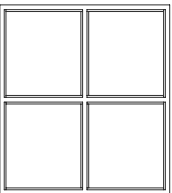
WITH A CROSS-BRACE



vertical



horizontal



double

DIMENSIONS		30/60/90
Min. W.O.W.	350 mm	
Max. W.O.H.	3600 mm (El ₂ 30/60)	
	3000 mm (El ₂ 90)	
Max. W.O.W.	No limits	
Max. glass W x H (recommended)	1300 x 2500 mm	

Standard RAL finishes

9003	9001	1013	7010	7013	7016	7022	7035	7042	8019	9005	9006

INDOOR ALUMINIUM LINE

Fixed fire-resistant glazed unit

El₂30/60 VITREX F2

El₂90/120 VITREX F3

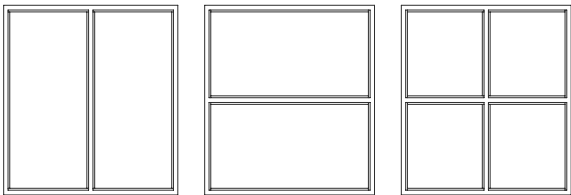
UNI EN 1364-1



VITREX F2 and VITREX F3 fixed fire-resistant glazed units feature a load-bearing frame made of 1.5 mm thick galvanized tubular steel profiles, clad in extruded Aluminium (UNI 6060 alloy). Internally, calcium silicate-based insulating panels provide excellent thermal protection. The total structure thickness is 79 mm for El₂30/60 units and 94/104 mm for El₂90/120 units.

The **fire-resistant glass**—supplied unmounted—is laminated and tempered, incorporates intumescent material, and is rated 1B1; thicknesses are 16 mm and 25 mm for El₂30/60 units, and 38 mm and 50 mm for El₂90/120 units.

WITH A CROSS-BRACE



vertical horizontal double

DIMENSIONS	30/60	90/120
Min. W.O.W.	350 mm	350 mm
Max. W.O.H.	3000 mm	3000 mm
Max. W.O.W.	No limits	No limits
Max. glass W x H (recommended)	1600 x 2800 mm	1300 x 2500 mm

Standard RAL finishes

El₂30/60 See Outdoor Aluminium

El₂90/120  OX Silver / RAL 9010 Soft

Fixed fire-resistant glazed unit thermally broken

EI ₂ 30 ALU GLASS R7	EI ₂ 60 ALU GLASS R4
EI ₂ 90 ALU GLASS R4	EI ₂ 120 ALUGLASS R8

UNI EN 1364-1



The **ALU GLASS R7, R4, and R8 fixed fire-resistant glazed** units are constructed using specially drawn extruded Aluminium profiles (alloy EN AW6060) and feature perimeter self-expanding hot-smoke seals. Internally, calcium-silicate-based insulating panels provide excellent protection. The structure has a total thickness of 72 mm for EI₂30/60 units and 89 mm for EI₂90/120 units.

The **fire-resistant glass**—supplied uninstalled—is laminated and tempered, incorporates intumescent material, and is rated 1B1; maximum thicknesses are 43 mm for EI₂30/60 units and 61 mm for EI₂90/120 units.

The assembly is **completed by drainage caps and finishes in RAL colors.**

WITH A CROSS-BRACE

vertical

horizontal

double

DIMENSIONS	30/60	90/120
Min. W.O.W.	350 x 350 mm	350 x 350 mm
Max. W.O.H.	3000 mm	3000 mm
Max. W.O.W.	No limits	No limits
Max. glass W x H (recommended)	1400 x 2600 mm	1200 x 2400 mm

WITH A REGULAR ARCH

depressed arch

Gothic

round arch

DIMENSIONS	30/60	90/120
Minimum radius - standard profile	≥ 700 mm	≥ 700 mm
Diameter - standard profile	≥ 1400 mm	≥ 1400 mm
Minimum radius - slim profile	≥ 300 mm	
Diameter - slim profile	≥ 600 mm	

Can be produced only with L-profiles. Cover profiles are excluded.

Standard RAL finishes: smooth matte

9010	1013	6005	8017	1015	1019	3003	3005	5010	5024	6009	6021
6029	7001	7006	7016	7035	7039	7040	8003	8014	8019	9002	9005

EW120 ALUMINIUM LINE

Fixed fire-resistant glazed unit

EW120 VITREX F10

UNI EN 1364-1

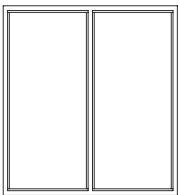


VITREX F10 bidirectional fire-resistant fixed glazing units are constructed using specially drawn extruded Aluminium profiles (alloy EN AW6060) and feature perimeter self-expanding hot-smoke seals. Internally, calcium silicate-based insulating panels provide excellent protection. The structure has a total thickness of 72 mm.

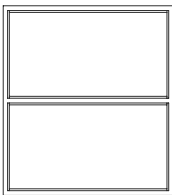
The insulating **fire-resistant glass**—supplied uninstalled—consists of laminated, tempered panes with an intumescent interlayer (class 1B1); it is available in thicknesses of 13 mm for interior use or 36 mm for exterior use.

The system is completed by **drainage caps and finishes in RAL colors**.

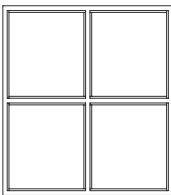
WITH A CROSS-BRACE



vertical



horizontal



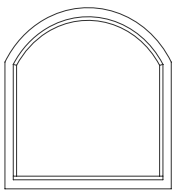
double

DIMENSIONS

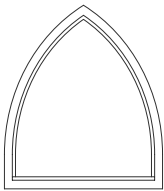
EW 120

Min. W.O.W.	350 x 350 mm
Max. W.O.H.	3000 mm
Max. W.O.W.	No limits
Max. glass W x H (recommended)	1400 x 2600 mm

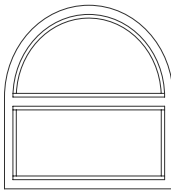
WITH A REGULAR ARCH



depressed arch



Gothic



round arch

DIMENSIONS

EW 120

Minimum radius - standard profile	≥ 700 mm
Diameter - standard profile	≥ 1400 mm
Raggio minimo - profilo slim	≥ 300 mm
Diametro - profilo slim	≥ 600 mm

Can be produced only with L-profiles. Cover profiles are excluded.

Standard RAL finishes: smooth matte

9010	1013	6005	8017	1015	1019	3003	3005	5010	5024	6009	6021
6029	7001	7006	7016	7035	7039	7040	8003	8014	8019	9002	9005

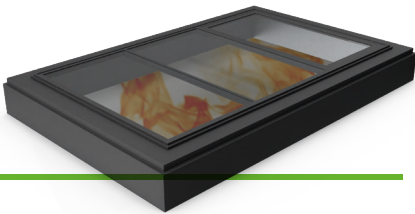
STEEL LINE

Horizontal fire-resistant glazing
and horizontal fire-resistant walk-on glazing

EI₂60 VITREX F9 FLOORSYSTEM

EI₂60 VITREX F9 FLOORSYSTEM WALKABLE

UNI EN 1364-1



The **VITREX F9 horizontal fire-resistant glass unit** is constructed using a load-bearing tubular steel frame and features inorganic silicate-based insulation, with intumescent seals lining the entire inner and outer perimeter. The frame is 80 mm thick and weighs 60 kg/m². The structure allows for various configurations—including the addition of crossbars—to meet specific design requirements.

The **fire-resistant glass** is supplied unassembled; it is a 27 mm thick laminated, tempered unit incorporating intumescent material and holding a 1B1 impact safety rating.

The 37 mm thick **walkable glass** unit is securely recessed into the frame; in addition to its anti-slip properties, it ensures safe and comfortable pedestrian access. The frame for this walkable horizontal glass unit is 110 mm thick and weighs 150 kg/m².

Available in a wide range of customizable RAL colors, the **VITREX F9 glass unit integrates seamlessly into any architectural setting, ensuring high aesthetic and functional standards.**

DIMENSIONS	Horizontal	Horizontal Walkable
Maximum dimensions	1200 x 2300 mm	1200 x 2300 mm
Fire-resistant glass thickness	27 mm	27 mm
Walkable glass thickness	/	78 mm (27 EI60 + 14 cavity + 37 laminated)
Frame thickness	80 mm	110 mm

Standard RAL finishes

											
9003	9001	1013	7010	7013	7016	7022	7035	7042	8019	9005	9006

Silicone-jointed fire-resistant glazing

EI₂30/60 EI₂90/12 JOINT

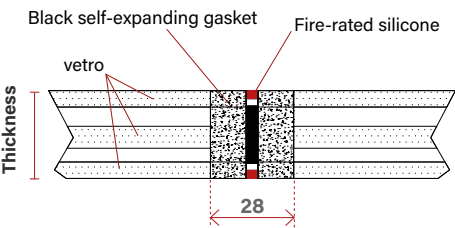
UNI EN 1364-1



The **fixed fire-rated windows** with silicone joint are made with a load-bearing frame in galvanized tubular steel, 15/10 thick, and covered with extruded Aluminium in UNI 6060 alloy. Inside, insulating calcium silicate sheets offer excellent thermal protection. They can be made in a single solution or with couplings for easy handling and installation.

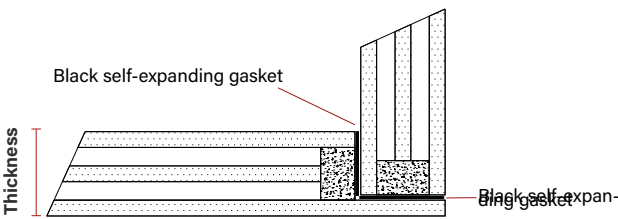
The **fireproof glass**, supplied unassembled, available with a black or transparent edge, consists of sheets with intumescent material interposed, coupled vertically without metal profiles and joined at the joint.

LINEAR JOINT WITH BLACK EDGE



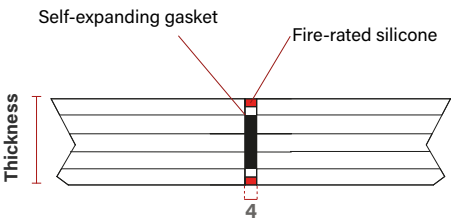
	Thickness	Weight	Maximum producible slab size
EI ₂ 30	20 mm	50 Kg/m ²	1800 x 3500 mm
EI ₂ 60	32 mm	70 Kg/m ²	1800 x 3500 mm
EI ₂ 90	33 mm	75 Kg/m ²	1500 x 3100 mm
EI ₂ 120	54 mm	115 Kg/m ²	1200 x 3100 mm

GIUNTO ANGOLARE CON BORDO NERO



	Thickness	Weight	Maximum producible slab size
EI ₂ 30	20 mm	50 Kg/m ²	1800 x 3500 mm
EI ₂ 60	32 mm	70 Kg/m ²	1800 x 3500 mm
EI ₂ 90	43 mm	98 Kg/m ²	1500 x 3100 mm
EI ₂ 120	64 mm	136 Kg/m ²	1200 x 3100 mm

LINEAR JOINT WITH TRANSPARENT EDGE



	Thickness	Weight	Maximum producible slab size
EI ₂ 30	19 mm	48 Kg/m ²	1800 x 3100 mm
EI ₂ 60	27 mm	61 Kg/m ²	1800 x 3100 mm
EI ₂ 90	37 mm	80 Kg/m ²	1500 x 3100 mm

Standard RAL finishes

EI₂30/60 See Outdoor Aluminium

EI₂90/120



OX Silver / RAL 9010 Soft

STEEL LINE

Fire-resistant curtain wall

EI₂30/60/90 SILVIFIRE

CE - UNI EN 1364-1 | UNI EN 13830



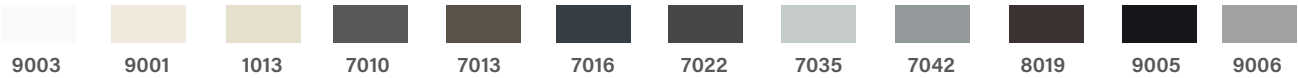
The **SILVIFIRE curtain wall system** stands out for its slender profiles with narrow sightlines, making it ideal for expansive glazed areas and sloped roofing. This advanced steel-and-glass solution—featuring a mullion-and-transom structure—is engineered to deliver outstanding performance regarding wind resistance, thermal insulation, and air permeability.

Certified by Istituto Giordano SpA, the SILVIFIRE system enables the creation of modular facades and glazed walls; installation is streamlined thanks to a design capable of supporting heavy glass units without the need for special structural measures. Its high load-bearing capacity makes the system particularly well-suited for complex, large-scale projects.

Furthermore, the availability of custom **RAL finishes** allows the facade to be tailored to specific aesthetic requirements.

CHARACTERISTICS		
Stress resistance		High
Steel elasticity	Modulus of 210,000 N/mm²	
Accommodation capacity	Heavy glazed panels	
Construction	Single 60 mm steel frame	
Pressure pads	Steel	
Covers	Aluminium	
Design	Refined aesthetic appeal	
Finish	Matte PTFE-enriched powder coatings	

Standard RAL finishes



Fire-resistant curtain wall thermally broken

EI₂30/60 ALU GLASS SYSTEM R5

CE - UNI EN 1364-1 | UNI EN 13830



The **ALU SYSTEM R5 curtain wall** is designed to integrate all hinged opening systems manufactured by Glassfire; it consists of Aluminium mullions and transoms that are reinforced and effectively insulated using calcium-silicate-based intumescent materials.

The system is completed by stainless steel components, intumescent gaskets, and insulating glass units with an EI₂30 / EI₂60 fire resistance rating.

The curtain wall is **available in all our anodized and painted finishes.**

CHARACTERISTICS	Test standard	Classification standard requirements	Assigned class
Air permeability	EN 12153:2004	EN 12152:2004	AE1200
Watertightness	EN 12155:2004	EN 12154:2004	RE1200
Wind load resistance	EN 12179:2004	EN 13116:2004	Design wind load: 1600 Pa Increased wind load: 2400 Pa
Impact resistance	EN 12600:2002	14019:2006	E5 and I5
Acoustic insulation measurement	EN ISO 717	**	Rw (C;Ctr) = 43 (-2;-6) dB
Thermal transmittance calculations	EN 10077-2	**	Uf -> 2 - 2.7 W/(m ² xK)

Standard RAL finishes: smooth matte

9010	1013	6005	8017	1015	1019	3003	3005	5010	5024	6009	6021
6029	7001	7006	7016	7035	7039	7040	8003	8014	8019	9002	9005

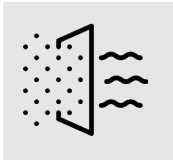


WATERTIGHTNESS EN 1027 - EN 12208

The ability of a window or door unit to prevent water infiltration when subjected to a flow of water and a pressure difference between the interior and exterior.

4A

Single or double-leaf door | EI₂60 | With floor rebate



AIR PERMEABILITY EN 1026 - EN 12207

The characteristic of a closed window or door unit regarding air leakage when a pressure difference exists between the interior and exterior; the lower the volume of air lost, the higher the quality of the unit.

Classe 4

Single or double-leaf door | EI₂60 | With floor rebate

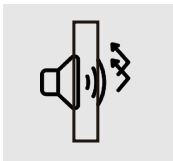


WIND RESISTANCE EN 12211 - EN 12210

The ability of a window or door unit—when subjected to high positive or negative pressures (such as those caused by wind)—to maintain deformation within permissible limits and retain its original properties, thereby ensuring user safety.

C5

Single or double-leaf door | EI₂60 | With floor rebate

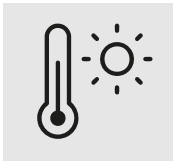


SOUND INSULATION EN ISO 140-3, EN ISO 717-1

The ability of a window or door unit to reduce airborne noise coming from outside.

37 db

Single or double-leaf door | EI₂60 | With floor rebate



THERMAL TRANSMITTANCE

The window or door unit complies with energy-saving regulations.

Thermal transmittance (U-value) represents the heat flow passing through the unit per square meter of surface area for every degree of temperature difference between the interior and exterior. The unit of measurement for thermal transmittance is W/m²K.

UW/m²K

1.2 p

Single or double-leaf door | EI₂60 | With floor rebate

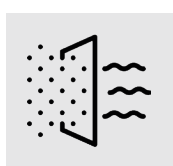
* Evaluation based on a significant sample, designed to reflect real-world applications in the construction sector.



WATERTIGHTNESS EN 1027 - EN 12208

The ability of a window or door unit to prevent water infiltration when subjected to a flow of water and a pressure difference between the interior and exterior.

1A	Double-leaf door EI ₂ 60/120 Without floor rebate
2A	Double-leaf door EI ₂ 60/120 With floor rebate
9A	Window EI ₂ 60 72 mm profile
2A	Window EI ₂ 120 89 mm profile



AIR PERMEABILITY EN 1026 - EN 12207

The characteristic of a closed window or door unit regarding air leakage when a pressure difference exists between the interior and exterior; the lower the volume of air lost, the higher the quality of the unit.

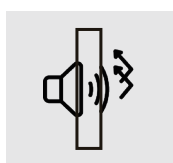
Classe 3	1 or 2-leaf door EI ₂ 60/120 With and without floor rebate
Classe 4	Window EI ₂ 60 72 mm profile
Classe 3	Window EI ₂ 120 89 mm profile



WIND RESISTANCE EN 12211 - EN 12210

The ability of a window or door unit—when subjected to high positive or negative pressures (such as those caused by wind)—to maintain deformation within permissible limits and retain its original properties, thereby ensuring user safety.

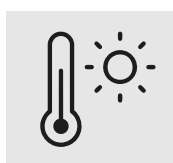
C2	1- or 2-leaf door 72 mm profile EI ₂ 60/120 No floor rebate
C3	1- or 2-leaf door 72 mm profile EI ₂ 60/120 With floor rebate
C3	Window EI ₂ 60/120 Profile 72 mm/89 mm



SOUND INSULATION EN ISO 140-3, EN ISO 717-1

The ability of a window or door unit to reduce airborne noise coming from outside.

vetro	infisso	
48 db	52 db	Single-leaf door EI ₂ 60/120 With floor rebate
41/46 db	40/42 db	Single or double-leaf door EI ₂ 60/120 With floor rebate
41/46/50 db	43/45/46 db	Window EI ₂ 60 72 mm profile
41/46 db	40/42 db	Window EI ₂ 120 72 mm profile



THERMAL TRANSMITTANCE

The window or door unit complies with energy-saving regulations.

Thermal transmittance (U-value) represents the heat flow passing through the unit per square meter of surface area for every degree of temperature difference between the interior and exterior. The unit of measurement for thermal transmittance is W/m²K.

U _f W/m ² K	2.2	1 or 2-leaf door 72 mm profile EI ₂ 60/120
U _d W/m ² K c/pannello	1.1 p	Single-leaf door 1480x2180 with panel (U _p = 0.5 W/m ² K)
U _d W/m ² K c/vetro	1.6 p	1-leaf door 1480x2180 with glass U _g =1.0 W/m ² K, psi=0.05W/mK

Standard accessories



Steel fire-resistant glazed doors
Bolzano Hospital

DOOR CLOSER

slide type



Concealed type



HINGES

3 wings type



Concealed type



HANDLES

Push / lever Panic Bar



Contact / push Panic Bar



Fixed grab bars
(single leaf
glass door)



DOOR STATUS CONTACT

magnetic sensor



ACCESS CONTROL

ELECTRIC
STRIKE
for single-leaf door



MOTORIZED
MECHANISM
single-point locking



HANDLE

Fire-rated accident prevention



ELECTROMAGNET

Wall-mounted



1/2 HANDLE

for windows



HEAVY DUTY DOOR LOCK

300 kg load capacity
(1- and 2-leaf door)



ELECTRONIC HANDLE

(1- and 2-leaf door)



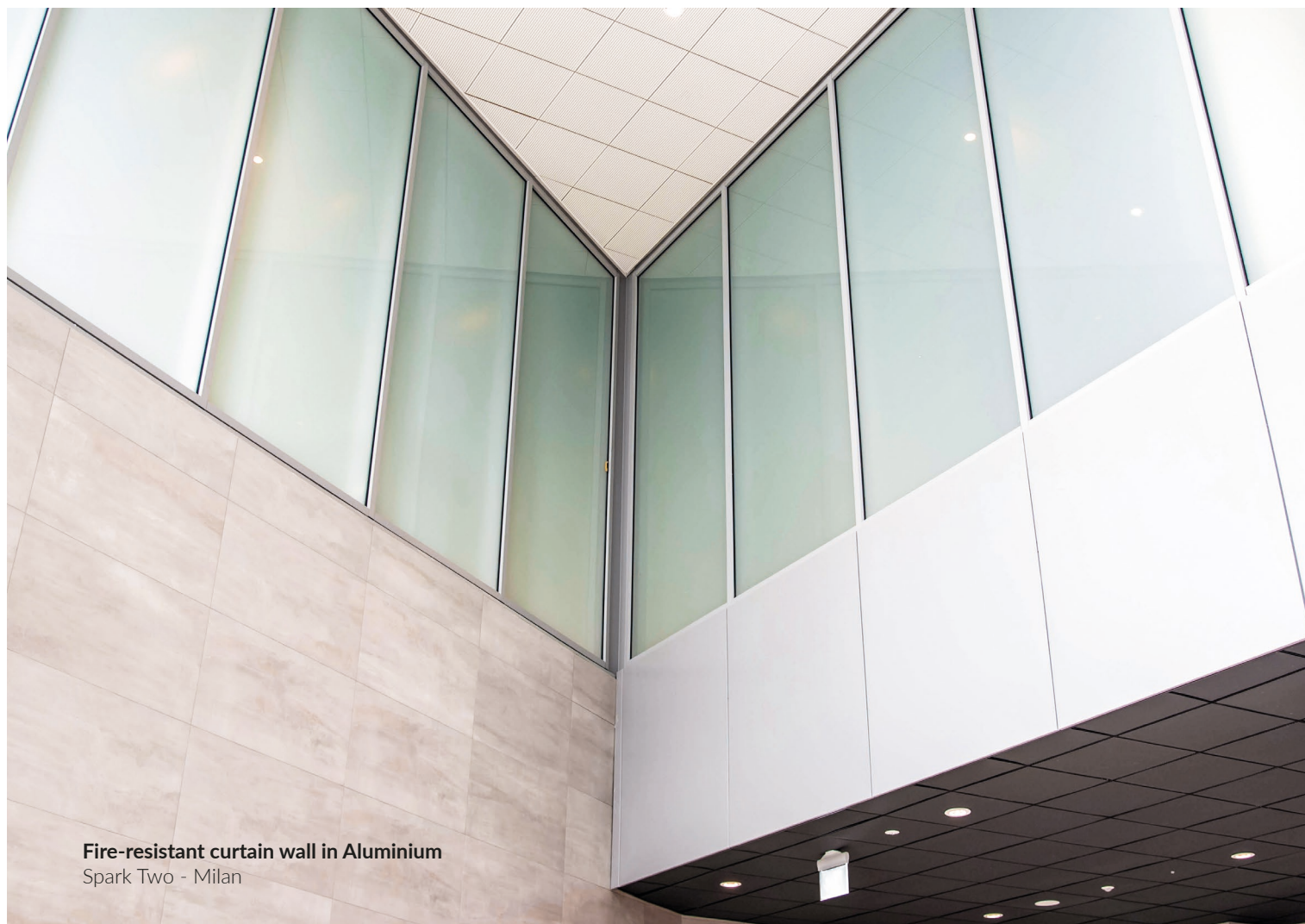
From conception to realization

<i>Roma</i>	FS Villa Patrizi
<i>Lecce</i>	Palazzo BN Luxury
<i>Romito (Firenze)</i>	RFI
<i>Roma</i>	German Institute
<i>Roma</i>	Soho House Hotel
<i>Cagliari</i>	Courthouse
<i>Milano</i>	Banca IFIS
<i>Roma</i>	Leonardo (Headquarters)
<i>Roma</i>	Prelios Offices
<i>Algeria</i>	Steel Center
<i>Udine</i>	Joppi Library
<i>Bologna</i>	Exhibition Center
<i>Bolzano</i>	Bolzano Hospital
<i>Largo Anzani (Roma)</i>	UniCredit Building
<i>Milano</i>	Spark One and Spark Two
<i>Savona</i>	Former San Paolo Hospital
<i>Fiume Treste e Settala</i>	Snam Power Plant
<i>Milano</i>	University – Library
<i>Milano</i>	Foreign Languages and Literatures Complex
<i>Kazakistan</i>	ENI Production Plant
<i>Milano</i>	Fondazione Prada Museum
<i>Atene (Grecia)</i>	Auditorium (Music House)
<i>Roma - Milano</i>	San Raffaele Hospital
<i>Tirana (Albania)</i>	Maria Teresa di Calcutta Policlinic
<i>Cagliari</i>	Sardinia Region
<i>Bologna - Milano</i>	Intesa Bank
<i>Roma - Lecce</i>	Bank of Italy
<i>Bari - Parma</i>	IKEA
<i>Roma Eur/ Mi.Cordusio</i>	Poste Italiane
<i>Roma</i>	Mercedes Business Center
<i>Roma</i>	Courthouse (Piazzale Clodio)
<i>Milano</i>	Fatebenefratelli (Ophthalmic Center)
<i>Campobasso</i>	Catholic University
<i>Roma</i>	American School
<i>Udine</i>	Town Hall (17th Century)
<i>Biella</i>	New Hospital Complex
<i>Lecce</i>	Vito Fazzi Hospital
<i>Roma</i>	Banca Fideuram
<i>Napoli</i>	Faculty of Engineering (Piazzale Tecchio)
<i>Siena</i>	Monte dei Paschi Headquarters
<i>Roma (Eur)</i>	Palazzo della Civiltà del Lavoro

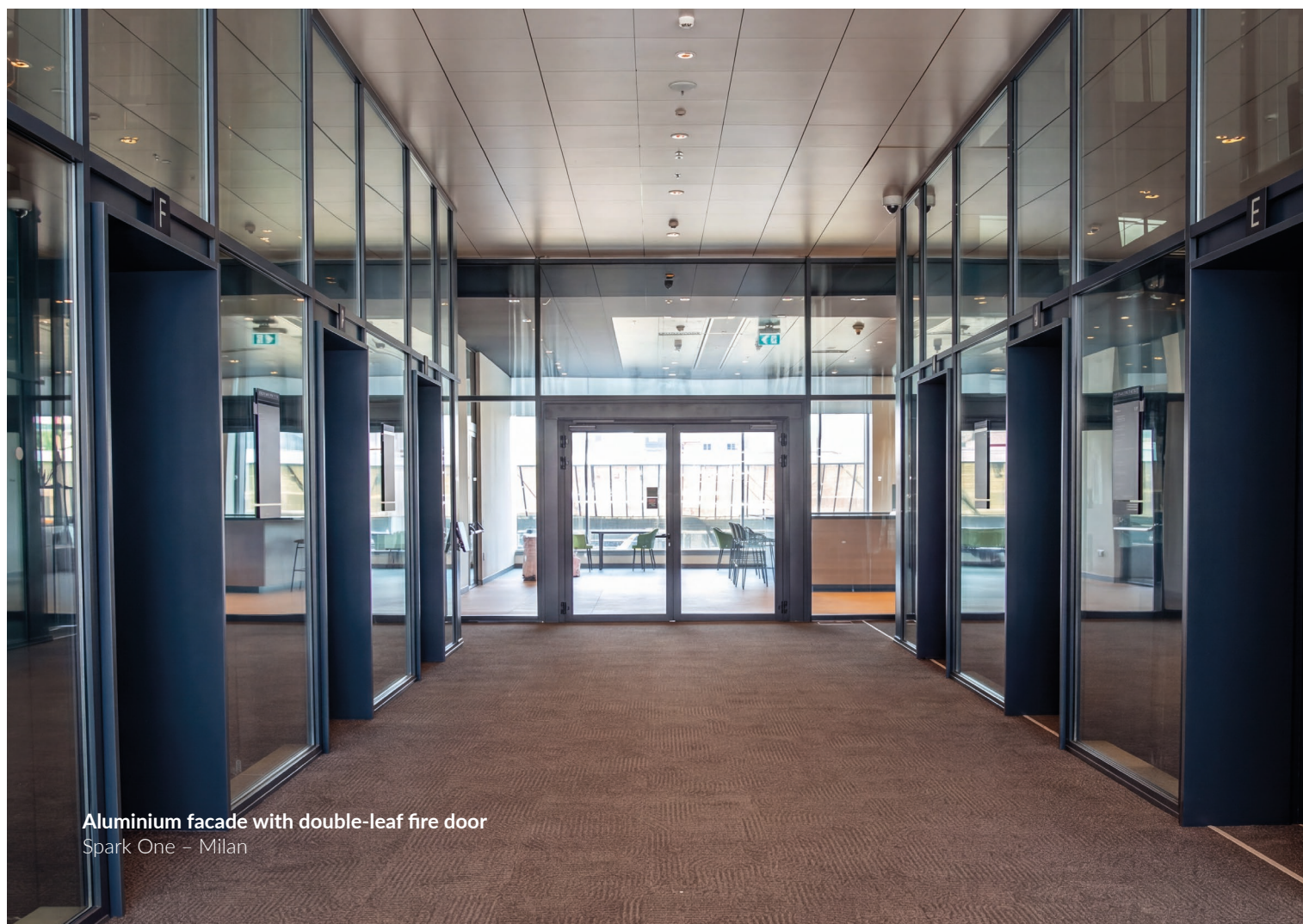
<i>Rapallo (SP)</i>	New Hospital
<i>Napoli</i>	Naples Central Station
<i>Torino</i>	Egyptian Museum
<i>Roma</i>	Rome Termini Station
<i>Roma</i>	Palazzo Farnese
<i>Roma</i>	San Camillo Forlanini Hospital
<i>Roma</i>	Santa Lucia Hospital
<i>Roma (EUR)</i>	INPS Headquarters
<i>Roma</i>	Campidoglio (City Hall)
<i>Trento</i>	University and Museum Complex
<i>Baggiovara (MO)</i>	New Modena Hospital
<i>Lecce</i>	ECOTEKNE University Campus
<i>Parma</i>	New Hospital
<i>Pavia</i>	San Matteo Policlinic
<i>Roma (Eur)</i>	"La Nuvola" Congress Center
<i>Cona (FE)</i>	New Ferrara Hospital
<i>Napoli</i>	New Ospedale del Mare
<i>Bari</i>	New Puglia Regional Headquarters
<i>Roma (Eur)</i>	Confindustria
<i>Roma</i>	BNL Headquarters
<i>Firenze</i>	Congress Center
<i>Bolzano</i>	Chamber of Commerce
<i>Vipiteno</i>	Schloss Moos Residence
<i>Bolzano</i>	Walthergarage
<i>Trento</i>	Municipal Technical Offices
<i>Bolzano e Brunico</i>	NOI Techpark TechPark
<i>Brunico</i>	Raikaplatz
<i>Bolzano</i>	Alperia
<i>Venezia</i>	Hotel Vivaldi
<i>Aquileia</i>	Palazzo Brunner
<i>Sassari</i>	University
<i>Milano</i>	Catholic University
<i>Milano</i>	Galleria Meravigli
<i>Aquila</i>	BPER Bank
<i>Aquila</i>	Government Palace
<i>Catania</i>	Refinery
<i>Perugia</i>	Palazzo dei Priori
<i>Caserta</i>	General Hospital
<i>Milano</i>	Cascina Merlata Shopping Center
<i>Milano</i>	Hotel Indigo
<i>Milano</i>	Allianz – Corporate Offices



Complex glazed fire-resistant
Aluminium doors
Galleria Meravigli - Milan



Fire-resistant curtain wall in Aluminium
Spark Two - Milan



Aluminium facade with double-leaf fire door
Spark One - Milan



Fire-resistant Aluminium curtain wall
CityLife Milano



Double-leaf fire-resistant steel doors
Mesiano University - Trento



Fixed fire-resistant
Aluminium glazing
University of Trent



Aluminium fire-rated door and glazing
INPS Headquarters – Rome



**Steel fire door
with sidelight and arched transom light**
Catholic University of the Sacred Heart – Milan



Steel fixed glazing
Palazzo Bagnesi – Florence



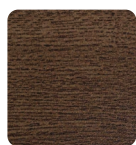
Colour RAL chart

1000 Brownish-Beige	1001 Beige	1002 Sand Yellow	1003 Signal Yellow	1004 Golden Yellow	1005 Honey Yellow	1006 Polenta Yellow	1007 Nardi Yellow
1011 Lemon Yellow	1012 Beige-Brown	1013 Pearl White	1014 Ivory	1015 Light ivory	1016 Sulfur Yellow	1017 Saffron Yellow	1018 Zinc Yellow
1019 Greyish-Beige	1020 Olive-Yellow	1021 Swede Yellow	1023 Traffic mystery	1024 Ochre Yellow	1027 Curry Yellow	1028 Melon Yellow	1032 Yellow broom
1033 Dahlia Yellow	1034 Pastel Yellow	2000 Yellowish-Orange	2001 Reddish-Orange	2002 Blood Orange	2003 Pastel Orange	2004 Pure Orange	2008 Light Orange-Red
2009 Traffic Orange	2010 Signal Orange	2011 Deep Orange	2012 Salmon Orange	3000 Fiery Red	3001 Signal Red	3002 Carmine Red	3003 Ruby Red
3004 Crimson Red	3005 Wine Red	3007 Blackish-Red	3009 Oxide Red	3011 Reddish-Brown	3012 Reddish-Beige	3013 Tomato Red	3014 Antique rose
3015 Light pink	3016 Coral Red	3017 Rosé	3018 Strawberry Red	3020 Traffic Red	3022 Salmon Red	3027 Raspberry Red	3031 Oriental Red
4001 Reddish lilac	4002 Reddish-Purple	4003 Heather Purple	4004 Bordeaux Purple	4005 Bluish lilac	4006 Traffic Purple	4007 Violet-Purple	4008 Violet signal
4009 Pastel Violet	5000 Bluish-Purple	5001 Brownish-Blue	5002 Ultramarine Blue	5003 Sapphire Blue	5004 Blackish-Blue	5005 Signal Blue	5007 Bright Blue
5008 Greyish-Blue	5009 Sky Blue	5010 Gentian Blue	5011 Steel Blue	5012 Blue light	5013 Cobalt Blue	5014 Dove-Blue	5015 Sky Blue
5017 Traffic Blue	5018 Turquoise Blue	5019 Capri Blue	5020 Ocean Blue	5021 Aqua Blue	5022 Midnight Blue	5023 Distant Blue	5024 Pastel Blue
6000 Brown patina	6001 Emerald Brown	6002 Leaf Brown	6003 Olive Brown	6004 Bluish-Brown	6005 Moss Brown	6006 Greyish-olive	6007 Bottle Brown
6008 Brownish-Brown	6009 Fir Brown	6010 Grass Brown	6011 Reseda Brown	6012 Blackish-Brown	6013 Reed Brown	6014 Yellowish-olive	6015 Blackish-olive
6016 Turquoise Brown	6017 Brown May	6018 Yellowish-Brown	6019 Whitish-Brown	6020 Chrome Brown	6021 Pale Brown	6022 Brownish-olive	6024 Traffic Brown
6025 Fern Brown	6026 Opal Brown	6027 Light Brown	6028 Pine Brown	6029 Mint Brown	6032 Brown signal	6033 Mint Turquoise	6034 Pastel Turquoise
7000 Vair Grey	7001 Silver-Grey	7002 Olive-Grey	7003 Moss Grey	7004 Signal Grey	7005 Mouse Grey	7006 Grey-Beige	7008 Khaki-Grey
7009 Brownish-Grey	7010 Greyish-Beige	7011 Iron Grey	7012 Basalt Grey	7013 Brownish-Grey	7015 Slate Grey	7016 Anthracite Grey	7021 Blackish-Grey
7022 Shadow Grey	7023 Concrete Grey	7024 Graphite Grey	7026 Granite Grey	7030 Stone Grey	7031 Bluish-Grey	7032 Gravel Grey	7033 Concrete Grey
7034 Yellowish-Grey	7035 Light Grey	7036 Platinum Grey	7037 Dusty Grey	7038 Agate Grey	7039 Quartz Grey	7040 Window Grey	7042 Traffic Grey A
7043 Traffic Grey B	7044 Silk Grey	8000 Brownish-Brown	8001 Ochre Brown	8002 Brown signal	8003 Mud Brown	8004 Copper Brown	8007 Roe deer Brown
8008 Olive Brown	8011 Walnut Brown	8012 Reddish-Brown	8014 Sepia Brown	8015 Chestnut Brown	8016 Mahogany Brown	8017 Chocolate Brown	8019 Greyish-Brown
8022 Blackish-Brown	8023 Orange-Brown	8024 Beige-Brown	8025 Pale Brown	8028 Earth Brown	9001 Cream White	9002 Greyish-White	9003 White signal
9004 Black signal	9005 Deep Black	9006 Bright aluminum	9010 Pure White	9011 Graphite Black	9016 Traffic White	9017 Illicit trafficking	9018 Papyrus White

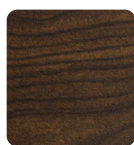
RAL colors displayed on screen or in print should be considered purely approximate. For accurate color reproduction, please consult an original RAL color chart.

WOOD-EFFECT FINISHES

for Aluminium: indoor use (El₂30/60) and outdoor use (El₂30/60/90/120)



UBRN11
Renolit
Matt 11



UBLR11
Larch
Matte 11



UBWE11
Wenge



UBRN21
Renolit
Matt 21



UBVE24
Wood
Green 24



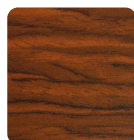
UBCI31
Cherry
Matte 31



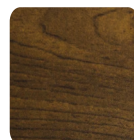
UBPI31
Pine
Matte 31



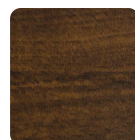
UBOM41
Elm
Matte 41



UBIR41
Iroko
Matte 41



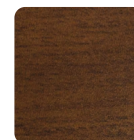
UBCS41
Chestnut
Matte 41



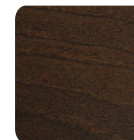
UBNC41
Walnut
Matte 41



UBCI42
Cherry tree
Opaque 42



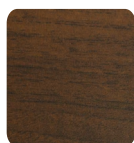
UBNC43
Walnut
Matte 43



UBNC44
Walnut
Matte 44



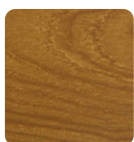
UBRV44
Oak
Matte 44



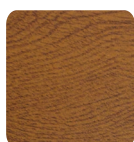
UBNC45
Walnut
Matte 45



HDOM15
Elm 15



USRV15
Oak 15



HDRN15
Renolit 15



HDQR15
Oak 15



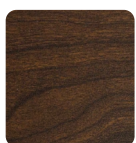
HDUV15
Olive Tree 15



HDNC25
Walnut 25



HDPP35
Poplar 35



HDTU35
Thuja 35



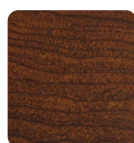
USRVU25
Oak 25



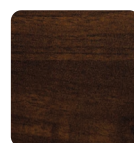
HDRN35
Renolit 35



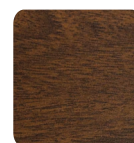
HDCS35
Chestnut 35



HDSP35
Sipo 35



HDNC35
Noce 35



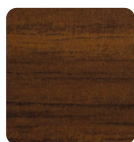
HDBH35
Bahia 35



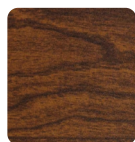
USCI45
Ciliegio 45



USRV35
Rovere 35



HDEB35
Ebano 35



HDPL35
Platano 35



VXCR13
Corten 13



VXCR14
Corten 14



VXCR16
Corten 16

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Marche, Molise, Lazio, Puglia, Sicily,
Sardinia, Tuscany, Umbria

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Our window and door systems comply with **international standards** and the required quality and safety certifications.

Use and Maintenance

Follow the installation and maintenance instructions to **ensure the safety** and optimal longevity of the products.

GLASSFIRE

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