



FLAME-PROOF **Fire doors**

Fire doors and gates for your safety.



The strengths of our fire closures

Fire doors ensure the safety of people and buildings in the event of fire, resisting flames, heat and smoke, and preventing the passage of fire between different areas of the building.



Features

Firebreak
Smokecutter
Automatic
Made of steel and tempered glass
In compliance with EN 1634-1
Insulation
Intumescent seals
Anti-smoking pads
Burglar resistant hinges

Applications

Shopping malls
Public places, such as:
theatres, museums,
stadiums...
Parking lots
Industrial garages



A rigid solution, against fires.

Fire doors ensure the safety of people and buildings in the event of fire, resisting flames, heat and smoke, and preventing the passage of fire between different areas of the building.

REI, what does that mean?

The acronym "REI" is used to indicate the European classification of fire resistance of building materials.

In the door classification, the abbreviation "REI" is followed by a number indicating the duration of the fire resistance expressed in minutes. For example, a door with the classification "REI 60" is able to withstand flames, ensuring thermal insulation and mechanical stability for at least 60 minutes.

Okay, real quick...

In summary, “REI fuoco” can be used to indicate the ability of a material, product or construction work to withstand fire and to maintain its mechanical stability and thermal insulation in case of fire.



REI 60

A REI 60 rating indicates that the material can withstand flames, ensuring thermal insulation and mechanical stability for at least 60 minutes.

REI 90

A REI 90 rating indicates that the material can withstand flames, ensuring thermal insulation and mechanical stability for at least 90 minutes.

REI 120

A REI 120 rating indicates that the material can withstand flames, ensuring thermal insulation and mechanical stability for at least 120 minutes.

STRUCTURE	FIRE DOOR
Sizing	One-leaf: Width up to 1340 mm x Height 2670 mm Double-leaf: Width up to 2540 mm x Height 2670 mm
Leaf door	Particularly robust door leaf consisting of two walls in hot-dip galvanized sheet steel, pressed and spot welded.
Insulation	Sheet metal and insulating bundle are rigidly joined, and the insulation is made with treated mineral wool.
Reinforcement and clamping plates	Reinforcements and plates are provided inside the door for mounting closers and panic bars.
Thickness	Available in 60 mm thickness
Frame	Material: Sturdy frame in thick galvanized sheet steel. Gaskets: Seats for thermoexpanding seal and rebate seal. Zanche: Supplied with zanche to be assembled on site. Thermoexpanding seals: Mounted on the perimeter profile of the frame, including the vertical profile if doors with 2 doors.
Hinges and Lock	Hinges: Two three-wing hinges, one bearing with thrust balls and screws for vertical adjustment of the door, and one equipped with spring for self-closing. Safety bolts: One or two security bolts applied on the hinge side. Lock: Reversible lock with latch and central bolt and European cylinder.

STRUCTURE	FIRE-RATED GATE
Sizing	Width up to 5400 mm x Height up to 5000 mm
Leaf door	Made of continuous modules of honeycomb panels in steel plate insulated with insulating materials (the thickness varies depending on the degree of fire protection).
Leaf door thickness	80 mm for EI 120, 120 mm for EI 180
Assembly	Screws on prepared horizontal tubes
Finishing	Base coat: Applied with curing in the oven at a temperature of 160 °C Painting: Suitable for interior door use

OTHER	FIRE DOOR
Handle and Paint job	Handle: Black plastic fire door handle with steel core, complete with plates. Painting: Epoxy polyester powder coating for interior, semi-gloss scratch-resistant embossed finish, in the standard white color RAL 9010. Paint suitable for indoor use.
Other accessories	Panic bars Door closer Closing regulators Access control system via electric lock Electrohandles Door Lock Door Electromagnet Fire resistant porthole

FUNCTIONING	FIRE-RATED GATE
Sliding fire door with thermal fuse	Opening and closing mode: The operator manually opens and closes the door Thermal fuse: Subjected to temperatures above 70 °C, snaps causing the release of the rope Counterweight: Drag the door to the lock Stroke brake: Prevents acceleration of the door when closing Shock absorber: Cushions the impact of the door closure [...]

[...] Sliding fire door equipped with electromagnet

- Opening and closing mode: The counterweight continuously charges the door that normally remains open, held by the electromagnet
- Disconnection: The electromagnet is deactivated by the ECU pulse or by pressing the disconnect button
- Counterweight: Closes the door when the electromagnet is switched off
- Stroke brake: Prevents acceleration of the door when closing
- End of stroke shock absorber: Cushions the impact of the door closing
- Electrical connection: The electromagnet requires a connection to a power supply unit and its external smoke and heat detectors

OTHER

FIRE-RATED GATE

Sliding guides Horizontal slide made of pressed and pre-drilled steel sheet for fixing with dowels.

Flow characteristics Sliding on low friction trolleys

Sliding guide to the floor Ensures the perpendicularity of the door leaf

Coverage of the upper rail Motor cover in pressed steel sheet

"Labirinti" Made of pressed steel sheet

Inflatable trimming Applied on all labyrinths and under the door

Closing counterweight Adjustable and protected by a housing in pressed steel sheet, with counter-rebate

Handles Flush mounting on both sides

Label Applied directly on the handle

Type of structure



Steel
Galvanized



Steel
Pre-painted



Panels
Insulated with fireproof insulating material

Colors (RAL)



RAL
9010



RAL
3000





RAL
5012



RAL
7035

Other colors ↗
On request





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