



**PRESSGLASS**

LEADING IN EUROPE

# FIRE-RESISTANT GLASS

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# FIRE-RESISTANT GLASS

Fire protection plays an increasingly important role in modern construction. In response to the needs of modern security systems, PRESS GLASS offers a wide range of fire-resistant glass. Their use effectively limits the spread of fire, facilitating the safe evacuation of building occupants in the event of a fire.

## GENERAL PRINCIPLES OF FIRE-RESISTANT GLASS PERFORMANCE

Fire-resistant glass is a multi-layered glass in which the glass panes are connected by interlayers that change their physical and chemical properties when exposed to high temperatures, creating a temporary barrier against fire. Thanks to these solutions, fire-resistant glass maintains its integrity longer in fire conditions, increasing the safety of building occupants.

## CLASSIFICATION OF FIRE-RESISTANT GLASS

- **CLASS E** – fire integrity class. A structural element of this class forms a barrier against flames, smoke and hot, toxic gases, but does not prevent the transfer of heat.
- **CLASS EW** – fire integrity and radiation reduction class. A structural element of this class forms a barrier against flames, smoke and gases, and limits the transfer of heat radiation and the risk of ignition of materials located at a certain distance from it.
- **CLASS EI** – fire resistance and insulation class. A structural element of this class forms a barrier against flames, smoke and gases, whilst preventing heat transfer and the ignition of materials in direct contact with the element.
- **CLASS REI** – a class used for structural elements of a building (e.g. walls, floors, facades and horizontal glazing). It denotes the ability of a partition to maintain its load-bearing capacity (R), fire integrity (E) and heat insulation (I) for a specified period during a fire. In the case of horizontal fire-resistant glazing (e.g. roof skylights, glass floors or glass roofs), REI or RE classes are used, depending on the required function of the partition.

SCAN THE CODE TO VISIT THE FIRE-RESISTANT GLASS PAGE



# OFFER

Supplier	AGC	GLASSPROF	POLFLAM	RETRE
Name of the glass	Pyrobel	Glassprof	Polflam®	Antifire®
Glass type	laminated glass with gel	symmetrically toughened glass with polymer-based hydrogel	symmetrically toughened glass with polymer-based hydrogel	symmetrically toughened glass with polymer-based hydrogel
Fire resistance class	single glass: EI 15 – EI 120 insulated glass: EI 20 – EI 120	single glass: EI30, EI60, EI90 insulated glass: EI30, EI60	insulated glass: EI30, EI60	single glass: EI30, EI60, EI90 insulated glass: EI30, EI60
Temperature range (transport, storage and use of glass)	–40 °C do +50 °C	–10 °C do +45 °C	–20 °C do +45 °C	–20 °C do +45 °C
Figures	YES	YES	YES	NO

## ADVANTAGES AND APPLICATIONS OF FIRE-RESISTANT GLASS

### BENEFITS

- Minimizes the risk of fire spreading.
- Increases safety of building users.
- Facilitates evacuation in case of fire.
- Supports both monolithic and insulated glass unit application.
- Offers flexibility in applications with different types of glass.
- Provides additional protection in case of break-in.

### EXAMPLES OF APPLICATIONS

Fire-resistant glass can be used where required by building regulations and where it is necessary to provide natural light and transparency to partitions.

These include:

- staircases and elevator shafts,
- corridors,
- evacuation routes,
- conference rooms,
- roof skylights,
- facades and external walls, etc.



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