



# FIRE RESISTANT GLASS

Style with discrete safety

It takes less than 30 seconds for a small flame to turn into a major fire. A two storey building can become an inferno in four and a half minutes\*. Building regulations state that in the event of a fire, a building should be evacuated in 20 minutes or less. Fire resistant glass is the unspoken hero in fire emergencies and can reduce the spread of flames, smoke and toxic gases for up to 120 minutes, allowing people to evacuate the premises safely.

Dellner-Romag supply cuttable, fire resistant products available on a short turnaround, and also work closely with Europe's leading manufacturers of toughened fire resistant glass for larger sizes and more specialist bespoke requirements. This flexibility in our suppliers means our technical experts can advise on the best solution to suit your project, using a product that fits your exact specification without bias.

There are 3 classifications to fire resistant glass, they are as follows:

## **INTEGRITY ONLY (E)**

Integrity only is your first line of defence, it stops flames, smoke and toxic gases. Available from 30 - 120 minutes protection. It does not stop heat transmission.

## **INTEGRITY AND RADIATION (EW)**

Integrity and radiation provides protection from flames, smoke, toxic gases and provides a barrier to radiated heat. This means that on the safe side of the glass, heat transference remains below 15kw per square metre which is enough to prevent objects from combusting on the safe side of the glass. Available from 30-60 minutes protection.

## **INTEGRITY AND INSULATION (EI)**

Integrity and Insulation is the highest performing FR glazing product on the market. It provides protection against flames, smoke, toxic gases, and reduces heat on the safe side of the glass to an ambient temperature. The heat reduction also prevents objects combusting on the safe side of the glass and is available from 30 - 120 minutes protection.

\*Figures from ready.gov

## **KEY FEATURES**

- Stops the spread of smoke, flames and toxic gases. EW and EI reduce heat radiation to prevent objects combusting on the safe side of the glass
- Can be used in internal and external applications
- Ideal for modern buildings and offices - a safe alternative to solid fire doors that disrupt bespoke designs

## **TYPICAL APPLICATIONS**

- Fire doors
- Fixed screens
- Partitioning systems
- Smoke curtains
- Roof lights
- Glass floors
- Steel screens
- Fire resistant aluminium
- Butt-jointed glazing

## OPTIONS

Dellner-Romag bespoke fire resistant glass can be combined with a number of optional features to accommodate almost any specialised requirement. Optional features include:

- Double glazing
- Solar Control
- Low E laminate
- Acoustic glass
- Bullet resistance
- Physical attack resistance
- Printing

## STOCK PRODUCTS

The following table represents Dellner-Romag's stock products from the Pyroguard cuttable range. However, as a bespoke glass processor we can source and advise up to EI120 fire resistant glass products.

Thickness	Type	Fire Resistance (Minutes)
7mm	EW IMPACT	30
7.4mm	FD (EW)	60
11mm	EW MAXI	30
11mm	EW	60
15mm	EI	30
23mm	EI	60



## TESTING

Dellner-Romag take quality standards and product testing very seriously. All our fire rated glass products are independently tested to BS 476-22:1987, and BS EN 1634-1:2008 (size dependant).



Dellner-Romag is certified to ISO 9001 and holds both ISO 14001 and ISO 18001 certification.

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