

Fire Glass

Integrity and insulation glazing — E30 to EI60 classifications

Overview

Fire-rated glass provides fire resistance for a defined period during a fire. Classifications: E (integrity — prevents flames and hot gases), EW (integrity + radiation control — limits heat to below 15 kW/m²), EI (integrity + insulation — limits temperature rise to below 140°C on the unexposed face). EI-rated glass contains intumescent gel layers that expand in fire, forming a rigid opaque insulating shield.

Fire Ratings

Rating	Class	Thickness	Products
E 30	Integrity	6-7mm	Pyroguard, Georgian wired
E 60	Integrity	7-10mm	Pyroguard, Borosilicate
EI 30	Insulation	15-21mm	Pyrostop, Contraflam 30
EI 60	Insulation	25-33mm	Contraflam 60

How Intumescent Fire Glass Works

EI-rated glass contains multiple clear intumescent gel layers between glass plies. Under normal conditions the gel is completely transparent. In a fire, each gel layer reacts to rising temperature by expanding and turning opaque white, forming a rigid insulating foam shield. The unexposed face stays cool (below 140°C).

Fire glass cannot be cut, drilled or modified on site, must be installed in tested approved framing systems with matching intumescent seals, and every installation must be signed off by building control.

How to Order

Contact our sales team: 020 8574 9342 | 07305 993794 | sales@csultd.co.uk | csultd.co.uk — quotes returned within 2 business hours (Mon-Fri, 8am-5pm).