

Fire Resistant Glazing Systems



FIRESTRIP 30 12mm x 3mm

Intumescent strip sealant

DESCRIPTION

An Intumescent Strip Sealant 12mm x 3mm which can provide 30 minute resistance to the passage of fire and smoke when used to glaze a wide variety of glass types into internal doors and softwood or hardwood timber screens. It is non-toxic, can be overcoated with paints and decorative wood stains and is available in 15 metre reels, Mahogany and Off White.

DESIGN INFORMATION - C82960

The glazing material shall be Firestrip 30, 12mm wide x 3mm thick between glass and the beads. Hardwood or non-combustible material setting blocks shall be used to achieve the required edge cover.

Screens:

Screens should be designed using softwood (plus Ash and Iroko) with a minimum density of 560kg/m³ and with a minimum cross section of 80mm x 45mm or hardwood (except Ash and Iroko) with a minimum density of 650kg/m³ and with a minimum cross section of 65mm x 45mm.

Beads:

Choose any type of hardwood that has a minimum density of 620kg/m³. The beads shall be a minimum 21mm x 13mm (slightly larger for Ash or Iroko) and 25mm x 25mm when used with Pyroacet. The beads shall be chamfered by 10° when used with non-insulating glasses and square or chamfered by 10° for insulating glasses. Beads shall be fixed with 1.5mm diameter x 32mm long pins or 32mm screws, skew fixed at 45° placed at a maximum of 50mm from each corner and at a maximum of 150mm centers.

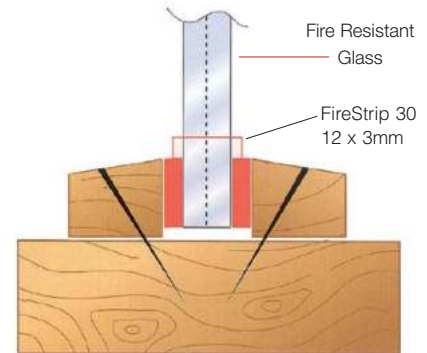
DESIGN INFORMATION

The glazing material shall be Firestrip 30, 12mm wide x 3mm thick between glass and the beads. Hardwood or non-combustible material setting blocks shall be used to achieve the required edge cover.

The glazing beads shall be of Sapele, or equivalent or higher density (610 kg/m³), sections, 22mm wide by 21mm high, chamfered by approximately 13° and fixed using 1.5mm diameter, 50mm long steel pins at a maximum of 100mm centers and angled to pass under the face of the glass.

Firestrip 30 is suitable for installation directly into a solid (high-density) flax board or laminated timber door leaf core. When joinery type door leaves are used, the timber for the rails and stiles shall have a density of at least 400 Kg/m³.

There are a number of alternative framing systems available, which are also suitable for use with Firestrip 30, which may not have specific test evidence. These framing systems are those listed in the CERTIFIRE Product Register as suitable for use with



The FG2 Glazing System

Note: minimum bead size 21mm x 13mm

intumescent based glazing systems and up to the maximum sizes listed for the specific system. When the framing system is determined as suitable using this method, and the system shows sizes smaller than allowable above, the aperture sizes specified in the framing system certificate shall take precedence.

TECHNICAL APPROVALS - Glasses which can be glazed with FIRESTRIP 30 into Timber Framed Screens – BS476: Part 22: 1987 WFR C82960

Non-Insulating Glasses MANUFACTURER	GLASS	MAX AREA (m ²)	MAX DIM (m)
CGI International	Pyroguard Clear and wired 7.2mm C730	2.0	2.4
Pilkington Glass	Pyroshield Clear & Texture 6mm	3.6	2.4
	Pyroshield Safety, Clear, Textured 6mm	3.6	2.4
	Pyrodur 10 mm	3.1	2.5
Schott Glass	Pyran S 6mm	3.6	2.45
Caradon Everest Tech-niglass	Pyroacet 6mm	4.2	2.1
Glaverbel	Pyrobelite 7mm	2.9	2.2
	Pyroswiss 6mm	3.0	2.0
Vetrotech St Gobain	Fivestar 5mm	1.5	1.5
Insulating Glasses			
Pilkington Glass	Pyrostop 15mm	2.8	2.0
Glaverbel	Pyrobel 12mm	2.8	2.3
Vetrotech St Gobain	Contraflam 22mm	2.6	2.2

Glasses which can be glazed with FIRESTRIP 30 into Timber Doors – CERTIFIRE No. CF297

GLASS	Maximum Pane Dimension (mm)	Maximum Pane dimension (mm) at aspect ratio of 1:1	Maximum Pane Area (m ²)
CGI International Pyroguard	875	758	0.57
Pyroshield Clear & Texture 6mm	875	758	0.57
Pyroshield Safety, Clear, Textured 6mm	875	758	0.57
Pyran S 6mm	875	758	0.57
Firelite	875	758	0.57
The aspect ratio of the glass may be unlimited within these pane dimensions			