

## FIRESTRIP® 30

Version No.3

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### DESCRIPTION

An Intumescent Strip Sealant 12mm x 3mm which can provide 30 minutes 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.

**Please ask our customer care team to send you a copy of our Certifire certificate CF297 for clear and concise application details for Firestrip® 30 and Firestrip® 60 and new increased glass sizes.**

### KEY FEATURES

Fully tested to provide 30 minutes resistance to the passage of fire and smoke in timber doors and screens.

Quick, clean and easy to apply.

BWF Certifire Scheme Certificate No. CF297 for use in timber screens and doors for periods of 30 minutes fire resistance.

Excellent high tack surface provides good adhesion.

Tested with a wide variety of non-insulating and insulating glass types.

Can be overcoated with paints and decorative wood stains.

Very cost effective compared to other rigid/semi-rigid fire resistant materials.

Non-toxic.

### TECHNICAL APPROVALS

BS476: Part 22: 1987 Test report **WFRC 70068**

BS 8000 Part 7: 1990.

BS476: Part 22: 1987 Test report **WFRC C82960**

EN1634: Part 4:1998 Test reports **Chilt/RF02065**

**Chilt/RF02064 and Chilt/RF02063**

EN1364-1: 1999 **WFRC 135349**

EN1364-1: 1999 **WFRC 142630**

BWF - Certifire Fire Door and Doorset Scheme - **Certificate No 297**

Glass & Glazing Federation Glazing Manual Section 2.8 Fire Resistant Glazing, 13. Table of Tested Products and Materials. 9.1.2 Glazing Materials – Strips.

FIRAS register of specialist fire protection materials – manufacturers & suppliers.

### USES

Firestrip® 30 is used for glazing non-insulating and insulating glass into timber fire doors and softwood or hardwood timber screens with hardwood beads using Hodgson FG2 Glazing System.

**Important: The performance of Firestrip® 30 is dependent on the use of suitable fire resistant glass and suitable frame design. If in any doubt, please contact Hodgson Technical Services for further information.**

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### GLASSES WHICH CAN BE GLAZED WITH FIRESTRIP® 30 INTO TIMBER FRAMED SCREENS – BS476: Part 22: 1987 WFRC C82960

#### Non-Insulating Glasses

| Manufacturer                | Glass  | Maximum Area (m <sup>2</sup> ) | Maximum Dimensions (m) |
|-----------------------------|--|--------------------------------|------------------------|
| CGI International           | <b>Pyroguard</b> Clear and Wired (7.2mm) – C730    | 2.0                            | 2.4                    |
| Pilkington Glass            | <b>Pyroshield</b> Clear, Safety and Textured (6mm) | 3.6                            | 2.4                    |
|                             | <b>Pyrodur</b> 10mm                                | 3.1                            | 2.5                    |
| Schott Glass                | <b>Pyran S</b> 6mm                                 | 3.6                            | 2.45                   |
| Caradon Everest Techniglass | <b>Pyrocet</b> 6mm                                 | 4.2                            | 2.1                    |
| Glaverbel                   | <b>Pyrobelite</b> 7mm                              | 2.9                            | 2.2                    |
| Vetrotech, St Gobain        | <b>Pyroswiss</b> 6mm                               | 3.0                            | 2.0                    |
|                             | <b>Fivestar</b> 5mm                                | 1.5                            | 1.5                    |

#### Insulating Glasses

| Manufacturer         | Glass                  | Maximum Area (m <sup>2</sup> ) | Maximum Dimensions (m) |
|----------------------|------------------------|--------------------------------|------------------------|
| Pilkington Glass     | <b>Pyrostop</b> 15mm   | 2.8                            | 2                      |
| Glaverbel            | <b>Pyrobel</b> 12mm    | 2.8                            | 2.3                    |
| Vetrotech, St Gobain | <b>Contraflam</b> 22mm | 2.6                            | 2.2                    |

#### Design Information WFRC 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/m<sup>3</sup> and with a minimum cross section of 80mm x 45mm or hardwood (except Ash and Iroko) with a minimum density of 650kg/m<sup>3</sup> and with a minimum cross section of 65mm x 45mm.

#### Beads:

Choose any type of hardwood that has a minimum density of 620kg/m<sup>3</sup>. The beads shall be a minimum 21mm x 13mm (slightly larger for Ash or Iroko) and 25mm x 25mm when used with Pyrocet. 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, screw fixed at 45° placed at a maximum of 50mm from each corner and at a maximum of 150mm centres.

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### GLASSES WHICH CAN BE GLAZED WITH FIRESTRIP® 30 INTO TIMBER DOORS – CERTIFIRE No. CF297

| Manufacturer              | Glass                                       | Maximum Pane Height (mm) | Maximum Pane Width (mm)  | Maximum Area (m²) |
|---------------------------|---|--------------------------|--------------------------|-------------------|
| CGI International         | Pyroguard 7.2mm                             | 875<br>(at 651mm wide)   | 758<br>(at 752mm high)   | 0.57              |
| Glaverbel                 | Pyroshield Clear, Safety and Textured (6mm) | 875<br>(at 651mm wide)   | 758<br>(at 752mm high)   | 0.57              |
| Schott Glass              | Pyran S 6mm                                 | 875<br>(at 651mm wide)   | 758<br>(at 752mm high)   | 0.57              |
| Southern Ceramic Supplies | Firelite                                    | 875<br>(at 651mm wide)   | 758<br>(at 752mm high)   | 0.57              |
| Pilkington Glass          | Pyrodur Plus                                | 2358<br>(at 950mm wide)  | 1093<br>(at 2050mm high) | 2.24              |

The aspect ratio of the glass may be unlimited within these glass dimensions.

#### 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/m<sup>3</sup>), 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 centres 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/m<sup>3</sup>.

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 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.

#### European Fire Testing Softwood Timber Screens 30 minutes integrity

BS EN 1364 part 1: 1999 - WRFC Test Report 142630.

Firestrip® 30 has been successfully tested with Pyroshield from **Pilkington** for a period of 37 minutes against BS EN 1364 part 1.

Please contact Hodgson or Pilkington for information on maximum glass sizes and design details.

#### European Fire Testing Softwood Timber Screens 30 minutes integrity

BS EN 1364 part 1: 1999 - WRFC Test Report 135349.

Firestrip® 30 has been successfully tested with Pyran S from **Schott Glass** for a period of 38 minutes against BS EN 1364 part 1.

Please contact Hodgson or Schott for information on maximum glass sizes and design details.

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### European Fire Testing Timber Doors: 30 and 60 minutes integrity

BS EN 1634 part 1: 2000:-

Chiltern RF02063 30minutes  
 Chiltern RF02064 30 minutes  
 Chiltern RF02065 60 minutes

Firestrip® 30 has been tested with Fivestar, Swissflam Lite SFL30-N2 and Swissflam Lite SFL60-N2 in softwood doors for both 30 and 60 minutes integrity (depending on glass type).

Please contact Hodgson or **Vetrotech** for information on maximum glass sizes and design details.

### PERFORMANCE

**Adhesion:** Excellent to glass and timber.  
**Compression to seal:** Positive compression.  
**Density:** 1.2g/cm<sup>2</sup>  
**Force to compress by 20%:** 1.4kg/cm<sup>2</sup>  
**Movement accommodation:** ±10%  
**Paintability:** Excellent.  
**Resistance to mould:** High.  
**Service life (predicted):** in excess of 20 years.

**Service temperature range:** +5°C to +40°C  
**Shrinkage:** <1%  
**Slump:** Nil.  
**Staining:** Nil.  
**Tack:** Very Good.  
**Tensile strength:** 1.3kg/cm<sup>2</sup>  
**UV resistance:** Excellent.

### APPLICATION

#### PROPERTIES

**Application temperature range:** +5°C to +30°C  
**Shelf life:** 12 months when stored flat in original packaging in cool, dry conditions.

#### INSTRUCTIONS

**Surface preparation:** All surfaces should be clean, dry and free from frost, grease and loose materials.

**Application:** Secure one set of glazing beads to act as a rebate if the opening is not already rebated. Pins or screws should be angled at 45°. Apply Firestrip® 30 on the paper along the rebate upstand of the top rebate by running the edge of the backing paper along the rebate platform so that the strip comes up to the sightline. For larger rebates it may be necessary to lift the paper above the platform to ensure that the Firestrip® 30 comes up to the sightline. Repeat the application to the sides and then the bottom rebate. Remove backing paper. Butt the corner joints, do not overlap. Position setting blocks. Centralise glass in frame on setting blocks. Press firmly around the edge of the glass to ensure that contact with the surface of Firestrip® 30 is achieved. Apply Firestrip® 30 to the glass in the same way as it was applied to the upstands by running the edge of the paper along the rebate platform or alternatively direct to the beads. Remove the backing paper. Bed the beads to the Firestrip® 30 by applying pressure to obtain good contact between the strip and the bead. Fix the beads with pins or screws in accordance with the design requirements of the installation. Pins or screws should be angled at 45° to pass beneath the glass. Trim off any Firestrip® 30 above the sight line with a sharp knife.

### PACKAGING

Standard: 12mm x 3mm (15m) x 10 reels  
 Trade Pack: 12mm x 3mm (10m) x 12 reels

Available colours: Mahogany and off-white

# PRODUCT DATA SHEET

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### GENERAL

Firestrip® 30 is part of a full range of cartridge sealants, tapes and fire resistant foam designed for use by the professional user to resist the passage of fire and smoke. For further information please contact our Customer Care Team or visit our Website.

*The information given in this product data sheet is based on laboratory tests and experience which we believe to be correct. Properties quoted are typical and do not therefore constitute a specification. In view of the wide range and variability of substrates, we would advise that our product should be tested by the user to establish suitability for its intended application. E &OE.*