

VETROTECH
FIRE RESISTANCE

Saint-Gobain
Glass Solutions



SGG SWISSFLAM® LITE SFL30-N2

Fire-test Certification Summary

*Partially Insulating Clear
Fire Resisting Glass*

*Multi-Panel Softwood Screen / Partition
32 Minutes Integrity
20 Minutes Insulation*

*Test Institute: TNO/Warrington Fire
Research Centre*

*Test Number: TNO 2002-CVB-R04863
and WFRC 123541/A*

Test Standard: EN 1364-1:1999

*Test Sponsor: Vetrotech Saint-Gobain
International AG*

SAINT-GOBAIN GLASS PROTECT

SGG SWISSFLAM® LITE SFL30-N2

Test Institute: TNO and Warrington Fire Research Centre

Test Number: (TNO 2002-CVB-R04863) and (WFRC 123541/A Approved Document B)

Test Date: 18 December 2001

Test Standard: EN 1364-1:1999

Test Sponsor: Vetrotech Saint-Gobain International AG

Test Result: 32 minutes integrity

20 minutes insulation

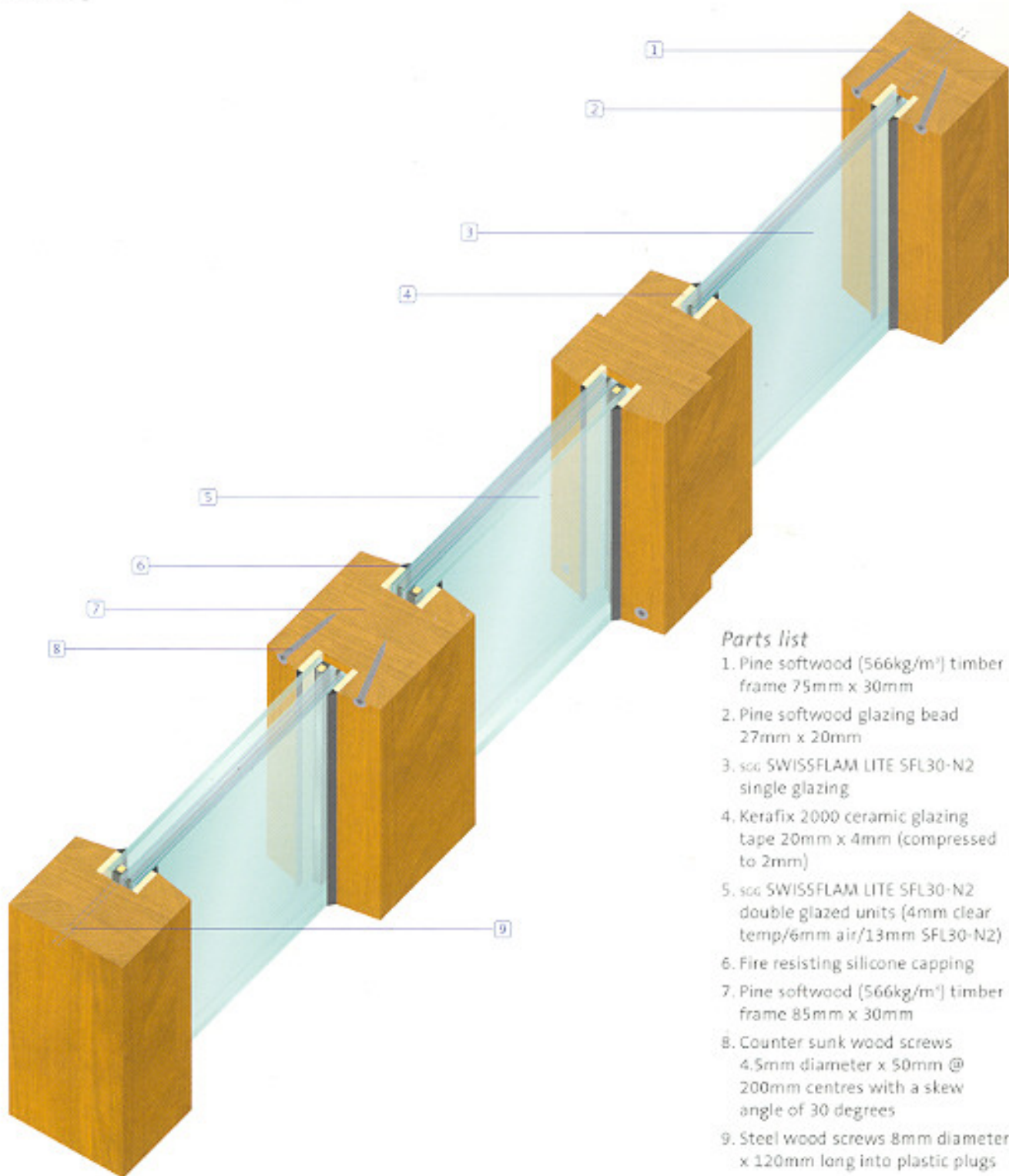
Summary: A multi-panel glazed softwood timber screen of overall dimensions 4000mm x 2520mm, incorporating three full height mullion members. Glazed with 2 no. double glazed units composed of panes of 13mm thick SGG SWISSFLAM LITE SFL30-N2 glass, with a 6mm aluminium spacer and an outer pane of 4mm thick clear tempered float glass and 1 no. pane of single 13mm thick SGG SWISSFLAM LITE SFL30-N2 glass retained within the frame by screw fixed softwood timber beads on either face. Subjected to a test in accordance with EN 1364-1 for a separating element, to 32 minutes integrity and 20 minutes insulation (E 32/I 20).

Elevation



SGG SWISSFLAM® LITE SFL30-N2

Section



SGG SWISSFLAM® LITE SFL30-N2

Construction

The frame was made from Pine softwood, with a stated density of 566kg/m³. The perimeter frame along with the mullions which contained the SFL30-N2 double glazing had section dimensions 85mm x 30mm. The perimeter frame along with the mullion which contained the SFL30-N2 single glazing had section dimensions 75mm x 30mm. All timber joints were mortice and tenon. The perimeter frame was fixed using steel wood screws 8mm diameter x 120mm long into plastic plugs. The frames were glazed with SGG SWISSFLAM LITE SFL30-N2 single glazing and SGG SWISSFLAM LITE SFL30-N2 double glazed units, supported on Promatect H[®] setting blocks 80mm x (glass thickness) x 5mm, 2 no. per glass pane. Between the face of the glass and the glazing bead, Kerafix 2000 ceramic paper tape 20mm wide x 4mm thick (compressed to 2mm) was fitted. The glazing beads were also of Pine softwood 27mm wide x 20mm deep. The timber beads were attached to the frame with 4.5mm diameter x 50mm long counter sunk steel wood screws, with a skew angle of 30 degrees fitted at 200mm centres.

Performance

The specimen satisfied the performance requirements specified in Clause 11 of EN 1364-1, for a separating element, for the following periods:

Integrity: 32 minutes
Insulation: 20 minutes

Glazing

1 no. 1310mm wide x 2410mm high
Single glazing

1 no. 1310mm wide x 2410mm high
Double glazing

1 no. 1170mm wide x 2410mm high
Double glazing

(Nominal edge clearance 5mm /
Edge cover 15mm ±2mm)

Safety

SGG SWISSFLAM LITE SFL30-N2 partially insulating clear fire resisting glass is a Class A safety glazing material, in accordance with BS 6206:1981.

Product description

SGG SWISSFLAM LITE SFL30-N2 is a partially insulating clear fire resisting glass. Produced from high performance laminated safety glass incorporating an advanced intumescent interlayer, which when exposed to fire turns opaque to form a partially insulating barrier to heat, smoke and flames. For use in doors and partitions of steel or timber construction, for 30 minutes integrity and radiated heat control (EW30) fire resisting applications.

Installation

SGG SWISSFLAM LITE SFL30-N2 should be glazed in accordance with our recommendations to ensure full compliance with the relevant fire-test certification. Each panel must be ordered to the correct size and shape, as the product cannot be cut down on site, after manufacture. Any subsequent alterations required to size or shape can only be carried out at an authorised cutting station or approved stockist. As part of the production process, SGG SWISSFLAM LITE SFL30-N2 has a special metallic protection tape applied to the glass edges. This must not be removed under any circumstances. The glass should not be glazed in a manner, which would allow water to be trapped in the glazing channel as this may contaminate the intumescent interlayers. Once installed the glass should be immediately capped off with a suitable silicone.

Storage and handling

When handling SGG SWISSFLAM LITE SFL30-N2, particular care should be taken to avoid mechanical damage to the glass edges. Abrasions to glass panels which result in damage to the protective edge tape should be avoided, as the intumescent interlayer may be contaminated. Such panels should be inspected and replaced as necessary. SGG SWISSFLAM LITE SFL30-N2 should be stored in a dry environment. The glass edges should be supported on timber battens or other non-abrasive materials and stacked upright. During storage, the glass should not be exposed to temperatures likely to exceed or fall below +45°C / -10°C.

Maintenance

SGG SWISSFLAM LITE SFL30-N2 glass requires no special maintenance procedures. Once installed the glass should be cleaned regularly using warm water and a liquid detergent, washed down with clean water. Damaged or broken panels should be replaced, as this could affect the fire performance capabilities of the product.

Technical advice

A Technical Advice Service is in daily operation at Vetrotech Saint-Gobain U.K. Ltd, where comprehensive information can be obtained on the correct use and application of the wide range of fire resisting glass products available.

If you would like more information or help, please call Vetrotech Saint-Gobain on 0113 239 1500 or contact us by email on infovsguk@vetrotech.co.uk

SAINT-GOBAIN
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