

VETROTECH
FIRE RESISTANCE

Saint-Gobain
Glass Solutions



SGG CONTRAFLAM[®] CF30-N2

Fire-test Certification Summary

*Fully Insulating Clear
Fire Resisting Glass*

*Multi-Panel Steel Screen / Partition
50 Minutes Integrity
38 Minutes Insulation*

Test Institute: Warrington Fire Research Centre

Test Number: 109917

Test Standard: BS 476: Part 22:1987

*Test Sponsor: Vetrotech Saint-Gobain
International AG*

SAINT-GOBAIN GLASS PROTECT

SGG CONTRAFLAM[®] CF30-N2

Test Institute: Warrington Fire Research Centre

Test Number: 109917

Test Date: 28 September 1999

Test Standard: BS 476: Part 22:1987

Test Sponsor: Vetrotech Saint-Gobain International AG

Test Result: 50 minutes integrity
38 minutes insulation

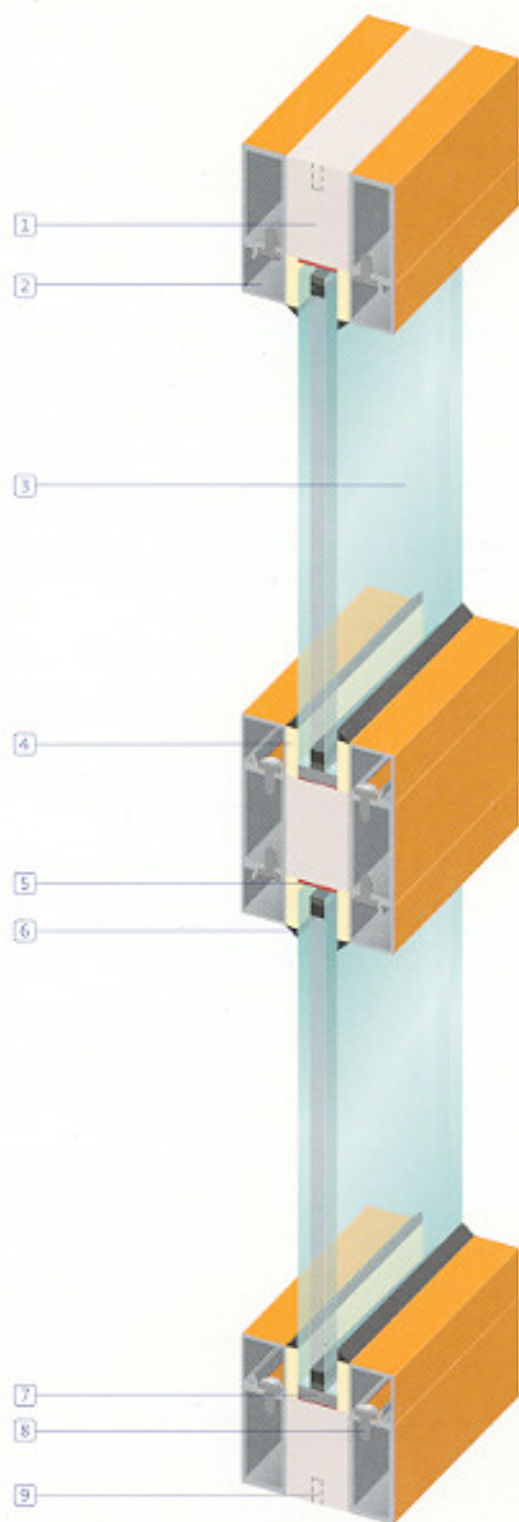
Summary: A multi-panel insulated steel framed screen of overall dimensions 2960mm x 2960mm, incorporating a full height mullion and three transom members. Glazed with 5 no. panes of 16mm thick *sgg* CONTRAFLAM CF30-N2 fully insulating clear fire resisting glass, retained within the frame by mild steel glazing beads, which, were snap fitted over glazing studs fixed to the framing members on both faces. Subjected to a test in accordance with Clause 5 of BS 476: Part 22:1987-1 for a separating element, to 52 minutes integrity and 42 minutes insulation (EI30).

Elevation



SGG CONTRAFLAM® CF30-N2

Section



Parts list

1. Forster Fuego insulated steel profiles 65mm x 55mm – ref. no. 732.850
2. Forster Fuego snap-on glazing beads – ref. no. 901.227
3. sgg CONTRAFLAM CF30-N2 fully insulating clear fire resisting glass
4. Kerafix ceramic glazing tape 20mm x 6mm (compressed to 4mm)
5. Kerafix +3 Graphite impregnated paper tape 16mm x 1.6mm
6. Silicone capping
7. Non-combustible setting blocks 50mm x 16mm x 5mm
8. Forster glazing studs – ref. no. 906577
9. Fischer anchor bolts type S10R 8mm diameter x 150mm long

SGG CONTRAFLAM® CF30-N2

Construction

The perimeter frame along with the transoms and mullions was made from Forster Fuego insulated steel profiles, ref. no. 732.850, with section dimensions of 65mm x 55mm. The perimeter frame was fixed using 'Fischer' anchor bolts type S10R 8mm diameter x 150mm long, into plastic plugs, at 800mm centres and 200mm in from each end. The frames were glazed with 16mm thick SGG CONTRAFLAM CF30-N2 fully insulating clear fire resisting glass, supported on 'Promatect H' setting blocks 50mm x 16mm x 5mm, 2 no. per glass pane. Between the face of the glass and the glazing bead, Kerafix ceramic paper tape 20mm x 6mm (compressed to 4mm) was fitted. The glass was retained by snap-on glazing beads 20mm x 20mm over steel glazing studs at 300mm centres and 70mm in from each end.

Performance

The specimen satisfied the performance requirements specified in Clause 5 of BS 476: Part 22:1987, for a separating element, for the following periods:

Integrity: 50 minutes
Insulation: 38 minutes

Glazing

1300mm wide x 2000mm high
1475mm wide x 967mm high
1475mm wide x 775mm high
1300mm wide x 775mm high
(Nominal edge clearance 5mm /
Edge cover 15mm ±2mm)

Safety

SGG CONTRAFLAM CF30-N2 fully insulating clear fire resisting glass is a Class A safety glazing material, in accordance with BS 6206:1981.

Product description

SGG CONTRAFLAM CF30-N2 is a fully sealed insulating glazing unit produced from two panes of tempered safety glass separated by a new high performance TPS spacer. The cavity between the panes of glass is filled with an advanced intumescent interlayer, which when exposed to fire turns opaque to form a fully insulating barrier to heat, smoke and flames. For use in doors and partitions of steel or timber construction, for 30 minutes integrity and insulation (EI30) fire resisting applications.

Installation

SGG CONTRAFLAM CF30-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. The product should not be installed in an area where the glass may be exposed to temperature extremities. Therefore the location of heating systems should be considered. 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 interlayer. Once installed the glass should be immediately capped off with a suitable silicone.

Storage and handling

When handling SGG CONTRAFLAM CF30-N2, particular care should be taken to avoid mechanical damage to the glass edges. SGG CONTRAFLAM CF30-N2 should be stored in a dry environment. 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 CONTRAFLAM CF30-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
GLASS



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