

VETROTECH
FIRE RESISTANCE

Saint-Gobain
Glass Solutions



SGG CONTRAFLAM[®] CF60-N2

Fire-test Certification Summary

*Fully Insulating Clear
Fire Resisting Glass*

*Multi-Panel Steel Screen / Partition
120 Minutes Integrity
91 Minutes Insulation*

Test Institute: Warrington Fire Research Centre

Test Number: 109918

Test Standard: BS 476: Part 22:1987

Test Sponsor: Vetrotech Saint-Gobain
International AG

SAINT-GOBAIN GLASS PROTECT

SGG CONTRAFLAM® CF60-N2

Test Institute: Warrington Fire Research Centre

Test Number: 109918

Test Date: 30 September 1999

Test Standard: BS 476: Part 22:1987

Test Sponsor: Vetrotech Saint-Gobain International AG

Test Result: 120 minutes integrity
91 minutes insulation

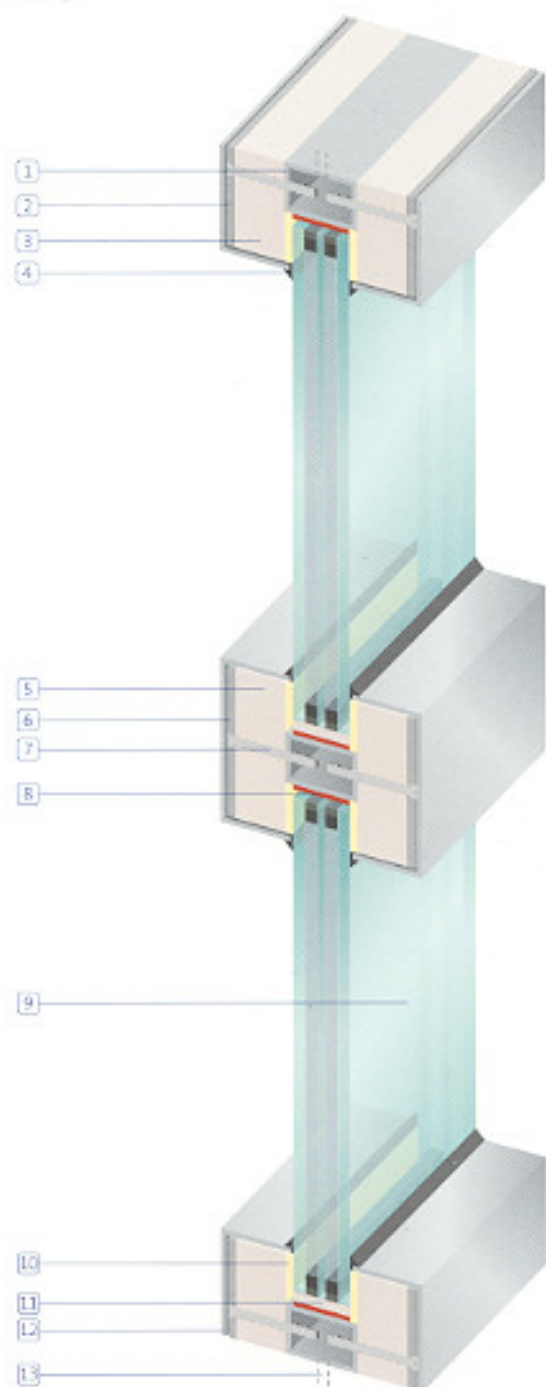
Summary: A multi-panel insulated steel framed screen of overall dimensions 2960mm x 2960mm, incorporating a full height mullion and three transom members. Glazed with 5 no. panes of 23mm thick sgg CONTRAFLAM CF60-N2 fully insulating clear fire resisting glass, retained within the frame on either face by cladding sections. Subjected to a test in accordance with Clause 5 of BS 476: Part 22:1987 for a separating element, to 120 minutes integrity and 91 minutes insulation (E120/I90).

Elevation



SGG CONTRAFLAM® CF60-N2

Section



Parts list

1. Steel rectangular hollow section
30mm x 20mm x 2mm thick
2. Mild steel plate 40mm x 3mm
3. Promatect H calcium-silicate
board 20mm x 40mm
4. Pyrosil type B silicone capping
5. Promatect H calcium-silicate
board 20mm x 60mm
6. Mild steel plate 60mm x 3mm
7. Steel counter sunk screws M6
x 35mm long @ 300mm centres
8. Kerafix +3 Graphite
impregnated paper tape
23mm x 2mm
9. SGG CONTRAFLAM CF60-N2
fully insulating clear
fire resisting glass
10. Kerafix ceramic glazing tape
20mm x 6mm (compressed
to 4mm)
11. Promatect H setting blocks
80mm x 23mm x 4mm
12. Aluminium cladding (optional)
13. Fischer anchor bolts type
S10R M8 x 150mm long

SGG CONTRAFLAM® CF60-N2

Construction

The frame was made from square hollow section steel tubes with 'Promatect H' calcium-silicate cladding sections fitted by steel counter sunk screws M6 x 35mm long at 300mm centres. The perimeter frame had overall section dimensions 75mm x 40mm. The overall dimensions of the transoms and mullions was 75mm x 60mm. All joints were welded. The perimeter frame was fixed using 'Fischer' anchor bolts M8 x 150mm long. The frames were glazed with SGG CONTRAFLAM CF60-N2 glass, supported on 'Promatect H' setting blocks 80mm x 23mm x 4mm, 2 no. per glass pane. Between the face of the glass and the cladding sections, Kerafix ceramic paper tape 20mm wide x 6mm thick (compressed to 4mm) was fitted. Directly underneath the glass edges, to the inside faces of each aperture, Kerafix +3 Graphite impregnated paper tape 23mm x 2mm was fitted.

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: 120 minutes

Insulation: 91 minutes

Glazing

1200mm wide x 2200mm high
1684mm wide x 1086mm high
1684mm wide x 684mm high
1200mm wide x 684mm high
(Nominal edge clearance 5mm /
Edge cover 15mm ±2mm)

Safety

SGG CONTRAFLAM CF60-N2 fully insulating clear fire resisting glass is a Class A safety glazing material, in accordance with BS 6206:1981.

Product description

SGG CONTRAFLAM CF60-N2 is a fully sealed insulating glazing unit produced from panes of tempered safety glass separated by a new high performance TPS spacer. The cavities between the panes of glass are 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 60 minutes integrity and insulation (EI60) fire resisting applications.

Installation

SGG CONTRAFLAM CF60-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 CF60-N2, particular care should be taken to avoid mechanical damage to the glass edges. SGG CONTRAFLAM CF60-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 CF60-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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