

SGG SWISSFLAM[®]
STRUCTURE

Fire protection: Class EI fire-resistant glass

Technical Sheet
United Kingdom

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Description

SGG SWISSFLAM STRUCTURE is a system that has been developed to provide optimum transparency in the construction of partitions that must be fire resistant. The assembled system consists of at least two panes of SGG SWISSFLAM structure, between which a very thin H profile is placed or a special fireproof silicone seal. The glass used in SGG SWISSFLAM STRUCTURE is manufactured using several sheets of laminated safety glass, separated by transparent or colourless intumescent interlayers. The system therefore provides full insulation in the case of a fire.

Applications

SGG SWISSFLAM STRUCTURE is a system designed for use in partitions. It can be used for many internal applications: walls, office partitions or combined with doors. The composition of the glass provides protection from fire on both sides of the wall. The system can also be installed in timber, stainless steel or aluminium frame types, subject to current test evidence.

Advantages

Transparency

SGG SWISSFLAM STRUCTURE is a glass system consisting of clear, transparent glass. Decorative options are also available. The intumescent interlayer of the glass is stable in UV light and does not discolour.

Safety

In the event of a fire, SGG SWISSFLAM STRUCTURE works as follows:

- the special intumescent interlayers opacify and expand to form an insulating thermal screen. They also restrict the amount of heat that spreads through radiation and conduction (max. temperature 140°C measured in accordance with the temperature curve ISO 834) for a period of at least 30 or 60 minutes depending on the type (classification EI in compliance with European standards)
- the SGG SWISSFLAM STRUCTURE system creates an integral insulating barrier against smoke, flames and hot toxic gases, for a period ranging from 30 to 60 minutes.

Resistance

The SGG SWISSFLAM STRUCTURE system has all the mechanical and safety performances of laminated glass of the same composition.

Availability

SGG SWISSFLAM STRUCTURE is available in large dimensions: 1950 x 3150 mm.

The maximum dimensions that are approved vary depending on the composition of the glass, the type of glazed element, the frame material and current national regulations. For further details, please contact VETROTECH SAINT-GOBAIN.

Range

SGG SWISSFLAM STRUCTURE is available as single glazing, in two standard thicknesses: 23 and 32 mm.

Performance

SGG SWISSFLAM® STRUCTURE		
Single-glazing performance		
Thickness	Fire resistance	
	Duration	Class
23 mm	30 min	EI 30
32 mm	60 min	EI 60

Installation Guidelines

- The glazing must be installed professionally and in strict accordance with current fire test certifications and authorisations.
- SGG SWISSFLAM STRUCTURE must not be installed near heating systems.
- The temperature limits (-10°C to +45°C) must be adhered to (minimum and maximum temperatures permitted in the intumescent interlayer).



Fünf - Höfe, Munich, Germany
Architects : Herzog & de Meuron

Standards and Regulations

The SGG SWISSFLAM STRUCTURE system has been tested in accordance with standards BS EN 1363 and BS EN 1364. It will receive the relevant CE marking when it is officially in force.

For further information, please contact our technical department or visit the website www.vetrotech.com