

SGG SWISSFLAM®

Fire protection: Class EI fire-resistant glass

Technical Sheet
United Kingdom

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Description

SGG SWISSFLAM is a fire-resistant glass, consisting of two or more sheets of laminated safety glass, that are separated by one or more interlayers. The cavity between the sheets of glass is filled with a transparent gel which reacts when exposed to fire. It absorbs the energy of the fire, acting as a heat shield, keeping temperatures on the safe side within the strict limits imposed by test standards and national regulations. The overall thickness of the product is determined by the level of fire resistance required.



*King's College Hospital, London, UK
Architect : Nightingale Associates*

Applications

SGG SWISSFLAM is a glass designed for structures which have to meet the following stringent criteria, in the event of a fire:

- flameproof and impervious to gases
- providing thermal insulation during a fire for a period of 30 minutes (class EI 30) to 60 minutes (class EI 60).

Single-glazing

- SGG SWISSFLAM can be used for internal applications as a single-glazed unit for doors and glazed partitions. These structures can be wooden or made out of steel, installed vertically or at an angle, subject to current test evidence.
- SGG SWISSFLAM can be used in single-glazed units for vision panels in fireproof doors.
- SGG SWISSFLAM is a true fireproof wall when used in partitioning, doors and internal walls. It is also an impact-resistant safety glass, in particular in the event of crowd panic.

Double-glazing

Assembled in double-glazed units, SGG SWISSFLAM can be used for external applications. It is advisable to install SGG SWISSFLAM facing the inside of the room.

Solutions tested and certified

Any length of partition and doors EI 30, EI 60, with wooden, insulated steel frames and even aluminium-based frames, depending on the performance level that is required.

Advantages

Transparency

SGG SWISSFLAM is a clear and transparent glass. The gel is UV stable and does not discolour with time.

Safety

SGG SWISSFLAM, when exposed for a period that exceeds 30 minutes or 60 minutes, forms an impervious barrier against the passage of smoke, flames and toxic gases.

Resistance

SGG SWISSFLAM has the mechanical and safety performance of laminated glass.

Availability

- SGG SWISSFLAM is available in large dimensions (test certificates are available).
- SGG SWISSFLAM is available on a short lead time.

Range

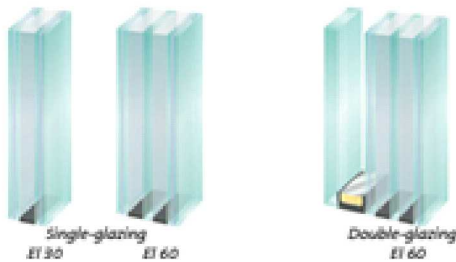
Single-glazing

- SGG SWISSFLAM is available in two standard thicknesses: 16 and 25 mm.
- SGG SWISSFLAM can be supplied as clear glass (clear laminated glass) or as white matt (opaque laminated glass).

Double-glazing

In double-glazed units, SGG SWISSFLAM can be combined with:

- solar control glazing from the SGG COOL-LITE, SGG ANTELIO or SGG PARSOL range
- low emissivity products from the SGG PLANITHERM range for enhanced thermal insulation.



Performance

Single glazing

SGG SWISSFLAM has been tested and certified for fire resistance and thermal insulation over a period of 30 and 60 minutes (EI 30

Performance .../...

Double glazing

SGG SWISSFLAM double-glazed units are tested and certified for fire resistance and thermal insulation over a period of 30 and 60 minutes (EI 30 and EI 60).

For more information on the performance of products, visit www.vetrotech.com

Product		SGG SWISSFLAM(1)	
Single glazing		EI30	EI60
Thickness	mm	16	25
Weight	kg/m ²	34	52
Light factor			
LT	%	86	85
LRe	%	8	8
LRi	%	8	8
uv	%	2	2
Energy factor			
T	%	61	56
Re	%	6	6
A1	%	6	6
A2	%	33	38
Solar factor g		0,69	0,66
Shading Coefficient SC		0,79	0,76
U-value	W/(m ² .K)	5,0	4,6
Sound reduction indices			
Rw	dB	40	43
C	dB	-2	-1
Ctr	dB	-3	-2
RA	dB	38	42
RA,tr	dB	37	41

(1) Permitted temperature, -10°, + 45°

Installation Guidelines

- Installation must be carried out in strict accordance with the relevant fire test certification and current national standards and regulations.
 - SGG SWISSFLAM must not be used in proximity to a heating system
 - The temperature limits for using the product must be observed: - 10° to + 45°C (minimum and maximum temperatures permitted for the gel).
- Please contact VETROTECH SAINT-GOBAIN UK for more information.

Standards and Regulations

The characteristics of SGG SWISSFLAM have been tested in compliance with BS EN 476-22.

SGG SWISSFLAM will receive CE marking when officially in force. For all other questions, contact our technical departments or visit www.vetrotech.com



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