

SGG VETROFLAM®

*Fire protection: Class E or EW fire resistant glass (flameproof)*

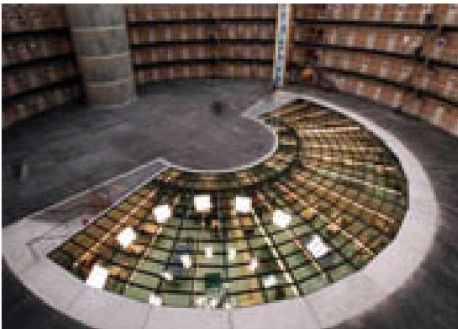
Technical Sheet  
United Kingdom

# SGG VETROFLAM®

*Fire protection: Class E or EW fire resistant glass (flameproof)*

## Description

SGG VETROFLAM is a fire-resistant glass, which is flameproof and impervious to gases required for class E certification. SGG VETROFLAM is produced using single-sheet glass with a special heat-reflective metallic oxide coating which has undergone rigorous high performance toughening and Heat Soak Testing. In the event of fire, SGG VETROFLAM limits the maximum heat flow. It therefore protects flammable materials located behind the barrier. These characteristics give the glass the optional criterion W for EW 30 and EW 60 classification. In the 6 mm version, SGG VETROFLAM provides fire resistance for over 60 minutes.



*De Koepel, Breda, The Netherlands  
Architect : Ir. A.C.W. Sip*

## Applications

SGG VETROFLAM can be used both internally and externally:

- single-glazed, laminated or as double-glazing in elements of internal or external constructions
- in vertical, sloping or horizontal applications, subject to current test evidence.
- in large sizes in glass partitions and curtain walling (steel frames only).

## Advantages

- SGG VETROFLAM offers the same advantages as conventional glazing plus all the mechanical and safety performances of SGG SECURIT toughened glass.
- In the event of fire, SGG VETROFLAM provides an effective barrier against smoke, flames and toxic gases. The product remains transparent and intact:
  - personnel can be evacuated in complete safety while the emergency services bring the fire under control
  - the glass can be easily broken (using an axe) into numerous small fragments to provide rapid access to the emergency services and/or permit the evacuation of personnel
  - installed in a double-glazed unit, SGG VETROFLAM offers enhanced thermal insulation properties.

## Range

### *Standard single-glazing*

SGG VETROFLAM is available in 6 mm clear glass.

### *Standard laminated glazing*

SGG VETROFLAM is available in a thickness of 13 mm with a clear or opaque PVB film.

### *Double-glazing*

SGG VETROFLAM can be assembled in double-glazing for the following exterior applications:

- combined with a solar control glass from the SGG COOL-LITE, SGG ANTELIO or SGG PARSOL ranges
- enhanced thermal insulation, combined with low-emissivity products from the SGG PLANITHERM range.

## Performance

SGG VETROFLAM restricts the thermal radiation to less than 15 kW/m<sup>2</sup>, in accordance with the standard requirements.

### *Monolithic version*

SGG VETROFLAM offers asymmetrical resistance to flames. The face which has been coated (the marked face) must be placed on the side where the fire risk exists.

### *Laminated safety glass version*

This has the following compositions and performances:

- two sheets of SGG VETROFLAM glass: for applications where the direction of the fire risk is unclear;
- one sheet of SGG VETROFLAM glass and one sheet of SGG SECURIT toughened glass with a thickness of 6 mm: for applications where the direction of the fire risk is clear.

### *Double-glazed version*

SGG VETROFLAM has the following compositions and performances:

- two sheets of SGG VETROFLAM glass: for applications where the direction of the fire risk is unclear
- one sheet of SGG VETROFLAM glass and one sheet of SGG SECURIT toughened glass with a thickness of 6 mm: for applications where the direction of the fire risk is clear.

SGG VETROFLAM is designed for classifications which require the glass to be flameproof and impervious to hot gases:

- for a period of 60 minutes (E 60) with steel frames.

For more information on performance, visit [www.vetrotech.com](http://www.vetrotech.com)

SGG VETROFLAM		
Single-glazing		EW60
Thickness	mm	6
Weight	kg/m <sup>2</sup>	15
Light factor		
LT	%	81
LRe	%	12
LRi	%	13
UV	%	31
Energy factor		
T	%	59
Re	%	11
A1	%	12
A2	%	13
Solar factor g		0,64
Shading Coefficient		0,74
U-value	W/(m <sup>2</sup> .K)	3,6
Sound reduction indices		
R>w	dB	31
C	dB	-1
C>tr	dB	-2
R>A	dB	30
R>A,tr	dB	29

(1) Temperature limit permitted, -10° to + 45°

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## Installation Guidelines

- sGG VETROFLAM must be installed in accordance with the approvals and certifications which have been granted and are currently valid.
- The protection, cleaning and maintenance methods, during work on-site and site clean-up are identical to those for sGG ANTELIO coated glass.
- sGG VETROFLAM must be installed so that the coated side is on the side where the fire risk exists (the marking must be visible on the fire risk side).

## Standards and Regulations

The characteristics of sGG VETROFLAM have been tested in accordance with BS EN 476-22. sGG VETROFLAM will receive CE marking when this is applicable. For all other questions, please contact our technical department or visit [www.vetrotech.com](http://www.vetrotech.com)



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