SGG **PYROSWISS®**

Fire protection: Class-E fire-resistant glass (flame-proof)

Technical Sheet

United Kingdom

SGG PYROSWISS®

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Description

SGG PYROSWISS is a glass which has been created through special heat treatments, high performance toughening and Heat Soak testing. Combined with a rigorous manufacturing process, which gives it excellent fire resistance qualities.
SGG PYROSWISS is designed for structures which must meet the criteria of being flameproof and impervious to hot toxic gases for a period of 30 minutes.

Applications

SGG PYROSWISS is used internally and externally with no restrictions. SGG PYROSWISS can be used:
- single-glazed, laminated glazing or in double-glazing in structural construction parts for internal or external applications
- in vertical, angled or horizontal applications
- for large sizes in glazed partitions with steel or timber profiles
- in door blocks made out of steel or timber profiles
- in smoke screens that are drilled and suspended.

Albertina Museum, Vienna, Austria
Architect : Stenmayr & Mascher

Advantages

• SGG PYROSWISS has the same polyvalence as conventional glazing and the same mechanical and safety performance as toughened safety glass.
• In the event of a fire, SGG PYROSWISS 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 for the emergency services and/or permit the evacuation of personnel.
• Installed in double-glazed units, SGG PYROSWISS also offers enhanced thermal insulation performances.

Range

Single-glazing
• sGG PYROSWISS is available (standard) as clear glass: 5-6-8-10-12-15-19 mm.
• sGG PYROSWISS can also be produced using different substrates such as:
- body-tinted float glass (sGG PARSOL)
- decorative glass (sGG SATINOVO)
- patterned glass (sGG MASTERGLASS)
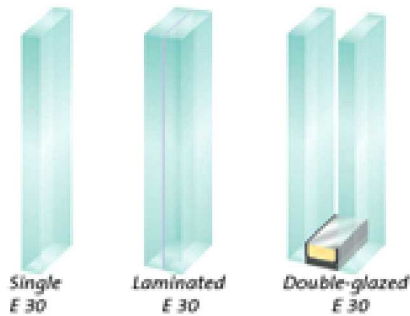- screen-printed glass (sGG SERALIT EVOLUTION).

Laminated glazing
sGG PYROSWISS is available (as standard) in a thickness of 13 mm with a clear or opaque PVB film.
The laminated glass has symmetrical fire-resistant properties when it consists of two sGG PYROSWISS sheets of glass.

Double-glazing
sGG PYROSWISS can be assembled into double-glazed units ideal for external applications. It can be combined with
products from the sGG COOL-LITE, sGG ANTELIO or sGG PARSOL range for solar control, or with low-emissivity
products from the sGG PLANITHERM range for enhanced thermal insulation. Certificates of approval are issued in
accordance with the substrate glass that is used.
Please contact VETROTECH SAINT-GOBAIN UK for further details.

Single
E 30   Laminated
E 30   Double-glazed
E 30

Performance

sGG PYROSWISS is a glass designed for structures that must be flameproof and impervious to hot gases for a period of 30 minutes
(E 30).
For more information on the performance, visit www.vetrotech.com

Product		sGG PYROSWISS(1)	
Single glazing		E30	E30
Thickness	mm	6	8
Weight	kg/m²	15	20
Light factor			
LT	%	89	87
LRe	%	8	8
LRi	%	8	8
uv	%	53	48
Energy factor			
T	%	79	75
Re	%	7	7
A1	%	7	7
A2	%	14	18
Solar factor g		0,82	0,80
Shading Coefficient SC		0,95	0,92
U-value	W/(m².K)	5,8	5,8
Sound reduction indices			
R>w	dB	32	34
C	dB	-1	-1
C>tr	dB	-2	-2
R>A	dB	30	31
R>A,tr	dB	29	30

(1) Temperature limits permitted, between -10°, + 45°

Installation Guidelines

It must be installed in strict accordance with the appropriate fire test certifications and current national regulations.

Standards and Regulations

The characteristics of sGG PYROSWISS have been tested in compliance with BS EN 76-22. sGG PYROSWISS will receive CE marking when this is applicable.

For all other questions, contact the VETROTECH technical department or visit www.vetrotech.com

Distributor