

SGG PYROSWISS® SGG PYROSWISS® EXTRA

FIRE PROTECTION GLASS



SAINT-GOBAIN GLASS PROTECT

sgg PYROSWISS® EXTRA

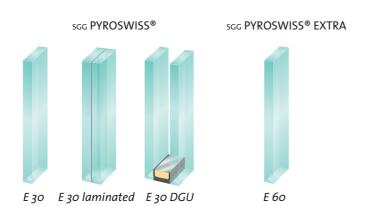
Our innovation characterises the Fire Protection glass of the future

Vetrotech Saint-Gobain, as a leader in innovation for fire protection glass, belongs to the worldwide leading producers for fire protection glass. Multifunctionality is one of the brand qualities of our high value products: Low E qualities, UV protection and impact safety are just some of the additional possible uses as well as fire protection. Architects and Designers hold the clear vision and exceptional stability of our glasses in high esteem, which allows ambitious solutions to be easily achieved. Thermally toughened sog PYROSWISS fulfils all of these points with simple and flexible application possibilities. sog PYROSWISS EXTRA has a higher melting point and is best aimed at fire protective glazing requiring higher fire resistance.



- Symmetrical fire protection
- Remains clear in the event of a fire
- Can be used double glazed to provide thermal protection, UV stability or acoustic control
- UV stable and can be used within a wide temperature range
- Manufacturable to pane sizes of 2000 x 4000 mm
- Large pane sizes tested (assessed) of up to 4.63 m²

sgg PYROSWISS protects against fire, smoke and toxic gases.



scg PYROSWISS – available for E 30 applications as monolithic panes, laminated or double glazed units. scg PYROSWISS EXTRA – available for E60 applications single glazed.



Multifunctional

Because of its high mechanical strength and the wide variety of combinations that are possible, SGG PYROSWISS is suitable for a wide variety of solutions.

- sgg PYROSWISS CLIMALIT and sgg PYROSWISS CLIMAPLUS are both suitable for roof and bolted applications
- scg PYROSWISS is also available obscure, silk printed or manufactured from our pattered glass scg MASTERCARRE

For a higher fire resistance, sgg PYROSWISS EXTRA can be used.

Saint-Gobain's unique «Alkaline Earth Silicate» float glass provides for a higher temperature resistance compared to conventional float glass based toughened products.

Further combinations are possible by means of individual application development. Fire tests in independent test institutes guarantee that all safety requirements are fulfilled

Optimal Low-E Values from 1.2 W/m²K (according to EN 674/673)





Unique variety of combinations

Depending on the application, sgg PYROSWISS can be installed monolithic, laminated or as a double glazed unit. Combinations to provide impact safety, anti-bandit resistance or with decorative glasses from the sgg DESIGN product range are possible with a project specific fire-test.

Individual application development makes further special applications possible. Our fire test assure that all safety requirements are met.

Please note – the respective performance and combination possibilities with sag PYROSWISS are dependent on the country specific fire tests and assessments.

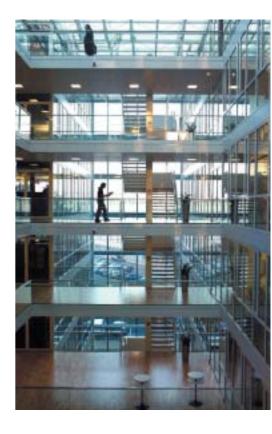
Areas of Application

sgg PYROSWISS is a versatile fire protection glass that can be universally used for both internal and external applications, for example:

- Partitions
- Fixed Glazing
- Vision panels
- Skylights
- Roof Glazing
- Facades
- Sloped Glazing
- Smoke curtains



sca PYROSWISS can be used in various frame and profile systems including steel, aluminium and hardwood. The installation of Pyroswiss takes place according to current fire testing and may only be carried out by an approved installer.



sgg PYROSWISS was developed specifically for integrity only applications.







Product Description

Product Name

sgg PYROSWISS fire protection glass for classification E30 sgg PYROSWISS EXTRA fire protection glass for classification ≥ E 60

Fire Protection Properties – Classification

E30 – E60 Tested according to EN 1363 and EN 1364 A choice of single, double glazed or laminated glass Symmetrical Fire Protection Remains clear during a fire

Further Properties

UV stable Class A for impact safety

Further technical information can be found on the data sheets.

Behaviour in a fire

The glass prevents the passage of flames, smoke and gases in the case of a fire.



Cross section of sGG PYROSWISS fire protection glazing with frame and glazing components. The definition and names of the system components can be found in the corresponding fire test.

In the case of a fire a high temperature difference occurs between the glass and the frame.



This difference in temperature leads to varying expansion, causing tension of the glass. Normal glass would break immediately from this kind of pressure.



Due to special treatment sgg PYROSWISS and sgg PYROSWISS EXTRA can withstand this pressure and therefore provide efficient protection from fire.



VETROTECH SAINT-GOBAIN GLASS PROTECT

sgg PYROSWISS® EXTRA

Fire protection and Safety

Safety

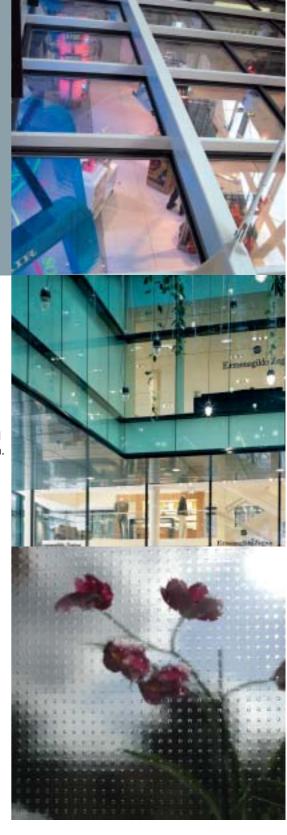
As a toughened product sage PYROSWISS is already a safety glass. It can also be made into laminated safety glass with a PVB interlayer (sage STADIP). In this case the glass has increased safety properties as well as fire protection.

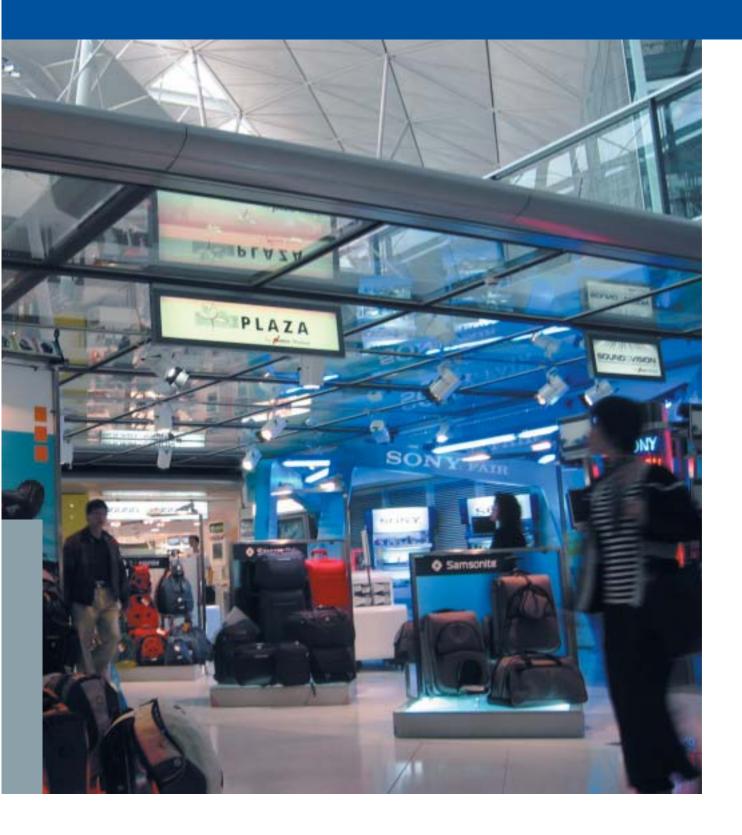
The excellent sound reduction properties achieved with double glazed units and laminated glass ensure a higher user comfort by protection from noise pollution.

Tested Decorative Applications with sag PYROSWISS®

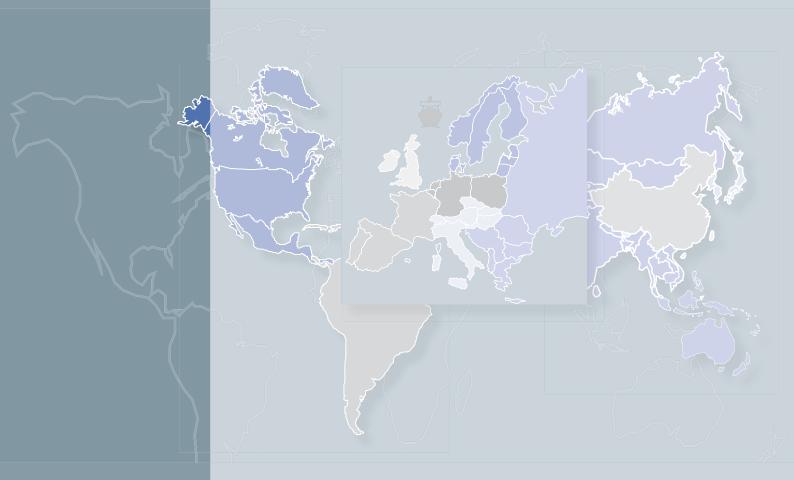
sgg PYROSWISS SATINOVO and sgg PYROSWISS MASTERCARRE are solutions that have been developed and successfully tested according to EN 1363 for E30 classification by Vetrotech Saint-Gobain, with a current tested size of 1200 x 2000.

With both of these solutions, fire protection applications can be realised with integrated privacy and decorative options.





Worldwide Service







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