

SGG THERMOVIT®

*Electrically heatable laminated
safety glass*

Technical Sheet
United Kingdom

SGG THERMOVIT®

Electrically heatable laminated safety glass

Description

SGG THERMOVIT is a heatable laminated glass incorporating almost invisible electrically conductive wires that are connected to an electricity supply.

SGG THERMOVIT comprises two or more sheets of glass assembled with one or more interlayers of polyvinyl butyral (PVB). The electric wires are inserted into one of the PVB films.

Applications

SGG THERMOVIT is suitable for applications where there is a high moisture content in the air and where the temperature variation between the two faces of the glass is sufficient to cause condensation.

Buildings

Indoor swimming pools, kitchens, aquariums, glasshouses and winter gardens, glass roofs, display windows, airport control towers, lighthouses, etc.

Industry and transport

Refrigerated display units, cold rooms, laboratories, observation windows, trains, ships, etc.



Central Bank, Einingen, Germany

Advantages

Transparency

SGG THERMOVIT provides good visibility regardless of the climatic conditions. SGG THERMOVIT removes condensation, vapour, frost and snow from the surface of the glass.

Safety

SGG THERMOVIT is a laminated glass providing the same level of safety as SGG STADIP or SGG STADIP PROTECT laminated glass of the same composition.

Comfort

The heat which is radiated by SGG THERMOVIT helps to improve the ambient comfort by reducing the cold surface effect of the glass.

Range

Maximum sizes
2700 x 5500 mm

Minimum thickness
laminated glass, 5 mm

Non-rectangular shapes
Please contact SAINT-GOBAIN GLASS.

As a general rule, all types of glass that can be laminated can also be used for SGG THERMOVIT: SGG PLANILUX, SGG PARSOL, SGG DIAMANT, SGG COOL-LITE, fire-resistant glass etc. SGG THERMOVIT can be used in single or double glazed units. SGG THERMOVIT provides enhanced thermal insulation when combined with a glass from the SGG PLANITHERM, SGG COOL-LITE K or SK range.

Performance

Power consumption can vary according to use and climatic environment (internal and external temperatures and moisture content in the air):

- Typical values for conventional applications are generally between 100 and 300 W/m² for homes and between 300 and 500 W/m² for buildings and industry
- in specialist applications, maximum values can reach up to 2800 W/m² (high-speed trains) and 3600 W/m² (ships in polar regions).

For more information, please contact SAINT-GOBAIN GLASS.

The spectrophotometric and mechanical performances of SGG THERMOVIT laminated glass are identical to those of conventional laminated glass of the same composition. SGG THERMOVIT glass components must be heat-treated if there is a risk of high mechanical pressure, thermal breakage or electrical heating greater than 500 W/m².

Installation Guidelines

SGG THERMOVIT is a specialist product and we recommend contacting SAINT-GOBAIN GLASS to conduct a preliminary study, to ensure the optimum design for the product, according to its application.

Supply voltage

AC power supply: maximum 440 V AC.

DC power supply: voltage between 42 and 120 V DC. For more information, please contact SAINT-GOBAIN GLASS.

Power supply

It is recommended to use a thermostatic control system as well as manually switching off SGG THERMOVIT when not in use.

Electrical connection

The glass is connected to its power supply along its edge or to the surface of the glass.

Along the edge:

- wire output
- flat connector (for a power supply that does not exceed 42 V).

On the surface:

- terminal box fixed onto the glass.

Standards and Regulations

On request, SGG THERMOVIT can be manufactured in accordance with standards BS EN 60335-1, EN 60335-2-30 and EMC 89/336/EEC.



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