

TITLE
THERMOVIT

SUBTITLE
Electrically heatable laminated safety glass



DESCRIPTION

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

RANGE

Maximum sizes: 2700 x 5500 mm
 Minimum thickness: laminated glass, 5 mm
 Non- rectangular shapes: Please contact us.
 As a general rule, all types of glass that can be laminated can also be used for THERMOVIT: SGG PLANILUX, SGG PARSOL, SGG DIAMANT, SGG COOL- LITE, fire- resistant glass etc. THERMOVIT can be used in single or double glazed units. 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 us.
 The spectrophotometric and mechanical performances of THERMOVIT laminated glass are identical to those of conventional laminated glass of the same composition. 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.

STANDARDS AND REGULATION

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

PRODUCT APPLICATION

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.

ADVANTAGE

Transparency

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

Safety

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 THERMOVIT helps to improve the ambient comfort by reducing the cold surface effect of the glass.

GUIDELINE

THERMOVIT is a specialist product and we recommend contacting us 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 us.

Power supply

It is recommended to use a thermostatic control system as well as manually switching off 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.