

SGG PLANITHERM[®] ONE *Low-E glass*
SGG PLANITHERM[®] ONE II



SGG PLANITHERM® ONE / ONE II

U-value of 1.0 W/(m².K) finally reached!

Applications

SGG PLANITHERM ONE, low-E coated glass, can be used in all insulating glass units, for new construction or refurbishment works:

- Windows in domestic buildings;
- Conservatories;
- Windows and façades in non residential buildings.

It can be incorporated in all types of frames.

Benefits

Once assembled in a double-glazed unit, SGG PLANITHERM ONE offers the best thermal insulation for a DGU in the world.

- Money savings in all climates.
- Great comfort level:
 - No cold area around windows;
 - Maximal use of living areas;
 - Great reduction of condensation levels on the inner pane.
- High light transmission.
- Large architectural possibilities (very neutral appearance).
- Environmentally friendly thanks to the CO₂ emission reduction.
- Safety function available thanks to the “to be tempered” version SGG PLANITHERM ONE II.

Description

SGG PLANITHERM ONE is a high performance low-E coated glass, to be processed into an insulating glass unit.

It is made of a clear float glass on which a thin transparent coating has been deposited by magnetron sputtering under vacuum. The coating exhibits the lowest emissivity (0.01) industrially accessible; it reflects the far infrared radiation thus limiting the heat transfer by radiation.

Product range

Monolithic glass

- Standard thickness: from 4mm to 10mm
- Substrate:
 - clear float SGG PLANILUX
- Size:
 - Split sizes and Jumbo size (6000 mm x 3210 mm)
- To be tempered version: SGG PLANITHERM ONE II. Once tempered, this glass has the same thermal performance and appearance as the annealed SGG PLANITHERM ONE.

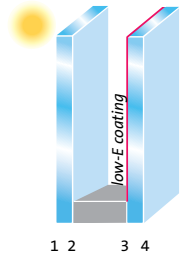
Laminated safety glass

- Numerous possibilities of compositions, including one or more PVB interlayer foils.
- Acoustic laminated glass SGG STADIP SILENCE.

Processing

SGG PLANITHERM ONE should always be processed into an insulating glass unit.

The coating along the edges is removed then placed inside the cavity, on face 2 or 3. It can be tempered (in the case of the post-temperable version) or laminated prior to its manufacture in IGU. Please read our guidance for use of SGG PLANITHERM products.



Performances

SGG PLANITHERM ONE / ONE II comply with the requirements of the class C of the standard EN 1096 and is CE marked (www.saint-gobain-glass.com/ce).

Performances

DGU 4 mm - 16 mm - 4 mm, coating on surface #3

Product	SGG PLANITHERM ONE	SGG PLANITHERM ONE II tempered
Light factors		
LT %	71	71
LRe %	22	22
LRi %	22	23
Solar factor g EN 410	0.49	0.51
SC ISO 9050 M1	0.53	0.55
U-value W/(m ² .K)		
Air filled cavity	1.3	1.3
Argon filled cavity	1.0	1.0

Average values given according to EN norms, subject to modifications.

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