

SGG PLANITHERM®
ONE T

*Superior
performance
"single-stock"
low-E glass*



SGG PLANITHERM® ONE T

Superior performance "single-stock" low-E glass with an optimum centre-pane U-value of 1.0 W/m²K

SGG PLANITHERM ONE T represents the most advanced thermal insulation performance within the SGG PLANITHERM family, Europe's best selling low-emissivity (low-E) glass and one of the UK's leading offline low-E coating brands.

Applications

SGG PLANITHERM ONE T is a low-E glass offering the lowest centre pane U-value in the SGG PLANITHERM family providing excellent thermal insulation for the most demanding of glass specifications:

Residential New Build Solutions:

- Windows and skylights
- Patio doors, French doors and other external doors

Commercial New Build and Renovation Solutions:

- Façades and windows
- Structural glazing
- Overhead glazing

Benefits

Enhanced Thermal Insulation

- with an optimum centre-pane U-value of 1.0W/m²K (16mm, 90% argon-filled cavity), SGG PLANITHERM ONE T can comfortably meet current Building Regulations by improving whole window U-values for all frame types
- particularly suited to residential new build and light commercial new build and renovation applications using steel and aluminium frames
- considerable reductions in heating over standard glass
- environmentally friendly solution, given the lower CO₂ emissions associated with reduced energy consumption

Comfort & Aesthetics

- helps to eliminate cold areas around windows resulting in greater comfort
- reduces incidence of condensation on the inner pane
- neutral appearance in both transmission and reflection
- maximises entry of natural daylight
- maximises use of living and working areas

Description

SGG PLANITHERM ONE T is manufactured on a magnetron coater. A unique combination of metal oxide layers are applied to high quality SGG PLANICLEAR clear float glass using a magnetically enhanced cathodic sputtering process under vacuum conditions.

Range

Monolithic Glass:

Standard thickness: 4mm and 6mm. Other thicknesses are available upon request.

Substrate: SGG PLANICLEAR clear float

Toughened Glass:

SGG PLANITHERM ONE T is a "single-stock" coating and therefore can be used in either annealed or toughened form. It can be toughened to meet the safety requirements of BS EN 12150.

Laminated Glass:

SGG STADIP, SGG STADIP PROTECT and SGG STADIP SILENCE laminated glass - please contact us for lead times and availability.

Instructions for use

SGG PLANITHERM ONE T must always be processed into an insulating glass unit (IGU) with the coating positioned towards the inside of the cavity. It is not suitable for single-glazing applications.

Important: If positioned on face 2 of an IGU for facade applications, the coating must always be toughened.

For full processing and handling instructions please refer to the document "Guidance for use - "single-stock" low-E coated glass".

Technical Specifications

Performance Data			
	DGU		TGU
External Pane	SGG PLANICLEAR	SGG PLANICLEAR	SGG PLANICLEAR
Internal Pane(s)	SGG PLANITHERM ONE T	SGG PLANITHERM ONE T	SGG PLANITHERM ONE T
Composition in mm	4(16)4	6(16)6	4(16)4(16)4
Coating Positions	Face 3		Face 3/5
LT	70%	69%	55%
LRe	21%	21%	30%
LRI	23%	23%	32%
g-value*	0.55	0.54	0.42
Shading Coefficient	0.63	0.62	0.49
U-Value in W/m²K Air	1.3	1.3	0.7
90% Argon	1.0	1.0	0.5

SGG PLANITHERM ONE T meets the durability requirements of class C of European Standard EN1096. Light and solar performance are in accordance with EN410.

*Positioning the coating on Face 2 reduces the g-value in DGU to 0.49 (4mm) and 0.48 (6mm).

SGG PLANICLEAR, SGG PLANITHERM, SGG STADIP, SGG STADIP PROTECT, SGG STADIP SILENCE and all other devices and logos are registered trademarks of Saint-Gobain.



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