



SAINT-GOBAIN

SGG PLANITHERM®  
ONE T

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



SAINT-GOBAIN GLASS CLIMATE

# 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 CO<sub>2</sub> 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).

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