

# PLANITHERM® ONE T

SUPERIOR PERFORMANCE “SINGLE-STOCK”  
LOW-E GLASS



SAINT-GOBAIN GLASS UK & IRELAND

  
SAINT-GOBAIN

## PLANITHERM ONE T

Superior performance “single-stock” low-E glass with an optimum centre-pane U-value of 1.0 W/m<sup>2</sup>K

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

## APPLICATIONS

PLANITHERM ONE T is a low-E glass offering the lowest centre pane U-value in the 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/m<sup>2</sup>K (16mm, 90% argon-filled cavity), PLANITHERM ONE T can comfortably meet current Building Regulations by improving whole window U-values for most 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 prevent overheating in larger glazed areas
- 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 use of living and working areas

## INSTRUCTIONS FOR USE

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.

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

## DESCRIPTION

PLANITHERM ONE T is manufactured on a magnetron coater. A unique combination of metal oxide layers are applied to high quality 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 including 8mm and 10mm.

Substrate: PLANICLEAR clear float

### • Toughened Glass

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

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



## TECHNICAL SPECIFICATION

	DGU	TGU
<b>External pane</b>	Planiclear	Planiclear
<b>Internal pane (s)</b>	Planitherm One T	Planitherm One T
<b>Composition in mm</b>	4 (16) 4	4 (16) 4 (16) 4
<b>Coating positions</b>	Face 3	Face 3 / 5
<b>TL</b>	67%	51%
<b>RLe</b>	25%	35%
<b>RLi</b>	25%	35%
<b>g-value*</b>	0.49	0.37
<b>Shading Coefficient</b>	0.57	0.43
<b>U-value in W/m<sup>2</sup>K** 90% Argon</b>	1.0	0.5

PLANITHERM ONE T meets the durability requirements of class C of European Standard EN 1096. Light and solar performance are in accordance with EN 410.  
\*Positioning the coating on Face 2 reduces the g-value in DGU to 0.45 (4mm). \*\* Centre-pane U-values have been rounded in accordance with EN 673.

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