



PLANITHERM ONE T

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



PLANITHERM ONE T

Superior performance “single-stock” low-emissivity (low-E) glass with an optimum centrepane U-value of 1.0 W/m²K, Planitherm One T represents the most advanced thermal insulation performance within the Planitherm family, 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/m²K (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 CO₂ 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
- Neutral appearance in both transmission and reflection
- Maximises use of living and working areas

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.



Planitherm[®]
Network Member

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". Available from Saint-Gobain Glass on request.



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 SPECIFICATIONS

	<i>Double Glazed Unit (DGU)</i>	<i>Triple Glazed Unit (TGU)</i>
<i>Internal Pane(s)</i>	<i>Planitherm One T</i>	<i>Planitherm One T</i>
<i>External Pane</i>	<i>Planiclear</i>	<i>Planiclear</i>
<i>Composition in mm</i>	<i>4(16)4</i>	<i>4(16)4(16)4</i>
<i>Low-Emissivity Coating Position</i>	<i>Face 3</i>	<i>Face 3 & 5</i>
<i>Light Transmittance T_L</i>	<i>67%</i>	<i>51%</i>
<i>Light Reflectance, External, R_{Le}</i>	<i>25%</i>	<i>35%</i>
<i>Light Reflectance, Internal, R_{Li}</i>	<i>25%</i>	<i>35%</i>
<i>Solar Factor, g-Value</i>	<i>0.49</i>	<i>0.37</i>
<i>Shading Coefficient</i>	<i>0.57</i>	<i>0.43</i>
<i>U-value in $W/m^2 \cdot K^*$ (Argon (90%))</i>	<i>1.0</i>	<i>0.5</i>

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. Performance data calculated using Calumen III 1.25 and is correct at the time of publishing (26.1.2023) but is subject to change at any time.

* Centre-pane U-values have been rounded in accordance with EN 673.



SAINT-GOBAIN GLASS

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