



PLANITHERM[®] ONE T

*Higher performance¹ low-emissivity
glass*



PLANITHERM® ONE T

Higher-performance¹ low-emissivity (low-E) glass with an optimum centre-pane U-value of 1.0 W/m².K in a double-glazed unit².

PLANITHERM® ONE T is one of the most thermally insulating products within the PLANITHERM® family, to help meet a range of glass specifications.



BENEFITS

Thermal insulation

- With an optimum centre-pane U-value of 1.0W/m².K in a double-glazed unit², PLANITHERM® ONE T can meet current Building Regulations by improving whole window U-values for most frame types
- Suitable for both double-glazed units (DGUs) and triple-glazed units (TGUs).

Reduced overheating

- Can support the prevention of overheating in larger glazed areas³, to help maximise the use of living and working spaces.

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

- Can be incorporated into the STADIP® laminated glass range. Please contact us for lead times and availability.

ENVIRONMENTAL CREDENTIALS

- Made using PLANICLEAR®, lower-carbon flat glass as standard. PLANICLEAR® is now a lower-carbon, clear float glass, based on the product's new, third-party verified EPD⁴ (published June 2026).
- The new declaration shows a carbon reduction of more than 34% compared with the previous PLANICLEAR® EPD. PLANICLEAR® now achieves 7.22kg CO₂e/m² for 4mm glass (Global Warming Potential categories A1-A3). This flat glass substrate is manufactured as standard by Saint-Gobain Glass UK & Ireland.
- Manufactured in the UK, which can help support supply chain security and product availability.
- Using 1 tonne of cullet in the manufacture of new float glass prevents the use of 1.2 tonnes of virgin raw materials and 700kg of CO₂ emissions (scopes 1, 2 & 3)⁵.



PERFORMANCE

	Double-Glazed Unit (DGU)	Triple-Glazed Unit (TGU)
EXTERNAL PANE	PLANICLEAR®	PLANICLEAR®
INTERNAL PANE	PLANITHERM® ONE T	PLANITHERM® ONE T
COMPOSITION IN MM	4 (16) 4	4 (16) 4 (16) 4
LOW-EMISSION COATING POSITION	Face 3 ⁶	Faces 3 & 5
LIGHT TRANSMITTANCE T _L ** (%)	67	51
LIGHT REFLECTANCE, EXTERNAL R _{LE} ** (%)	25	35
SOLAR FACTOR G-VALUE** (Argon 90%)	0.49	0.37
U-VALUE IN W/m ² .K* (Argon 90%)	1.0	0.5

*according to EN673 **according to EN410

References

- Higher performance, coated, flat glass, achieves an emissivity level of 3% or less. Saint-Gobain Glass' PLANITHERM® and COOL-LITE® products are higher performing than uncoated, flat glass substrates, based on emissivity level.
- Refer to the double-glazed unit configuration of 4mm PLANICLEAR® / 16mm cavity, 90% argon / 4mm PLANITHERM® ONE T (face 3) in the performance table.
- Refer to the double-glazed unit configuration of 4mm PLANICLEAR® / 16mm cavity, 90% argon / 4mm PLANITHERM® ONE T (face 3) in the performance table, with a g-value of 0.49 and the triple-glazed configuration of 4mm PLANICLEAR® / 16mm cavity, 90% argon / 4mm PLANITHERM® ONE T (face 3) / 16mm cavity, 90% argon / 4mm PLANITHERM® ONE T (face 5) in the performance table, with a g-value of 0.37.
- EPD – environdec.com.
- The benefit of cullet use is based on a calculation which uses Life Cycle Analysis level data representing all Saint-Gobain Glass European float lines producing architectural glass.
- In a standard double-glazed unit (DGU) there are four potential surfaces to which coatings can be applied: surface 1 faces outdoors, surface 2 and surface 3 face each other inside the DGU, separated by a peripheral spacer which creates an insulating air space, and surface 4 faces directly indoors.
- 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.
- The Saint-Gobain recommendation is to always toughen the centre-pane of a triple-glazed unit when using silica glass.
- 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.
- Performance data calculated using Calumen.com and is correct at the time of publishing (15.09.2026) but is subject to change at any time.

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