

SGG PLANITHERM®
ONE/ONE II

*Superior
performance
low-E glass*



SGG PLANITHERM® ONE/ONE II

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

SGG PLANITHERM ONE represents the most advanced thermal insulation performance within the SGG PLANITHERM family, Europe's best selling low-emissivity (low-E) glass and the UK's leading offline low-E coating brand.

Applications

SGG PLANITHERM ONE is a low-E glass offering the lowest centre pane U-value in the market thus 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 (90% argon-filled), SGG PLANITHERM ONE 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 bills
- environmentally friendly solution, given the lower CO₂ emissions associated with reduced energy consumption

Comfort & Aesthetics

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

Description

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

Range

Monolithic Glass:

Standard thickness: 4mm and 6mm
Substrate: SGG PLANILUX clear float

Toughened Glass:

Unique in the market, SGG PLANITHERM ONE II can be toughened to meet the safety glazing performance requirements of BS EN 12150.

This product has the same aesthetics as annealed SGG PLANITHERM ONE.

Laminated Glass:

SGG STADIP, SGG STADIP PROTECT laminated glass and SGG STADIP SILENCE acoustic laminated glass in most common configurations.

Instructions for use

SGG PLANITHERM ONE must always be processed into an insulating glass unit (IGU). SGG PLANITHERM ONE II must always be tempered prior to its manufacture within the IGU.

For full processing and handling guidelines, please request a copy of the detailed "Guidance for Use low-E Coated Glass" documents and accompanying summary brochure.

Technical Specifications

Performance Data

	DGU with SGG PLANITHERM ONE	
External Pane	SGG PLANILUX	
Internal Pane	SGG PLT ONE	SGG PLT ONE II
Composition in mm	4(16)4	
Coating Positions	Face 3	
LT	71%	
LRe	22%	
LRI	23%	
g-value*	0.50	0.51
Shading Coefficient	0.58	0.59
U-value in W/m²K		
Air	1.3	
90% Argon	1.0	

SGG PLANITHERM ONE and PLANITHERM ONE II meet the durability requirements of class C of European standards EN 1096 and are CE marked.

* Light and solar performance according to EN 410

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