SGG PLANITHERM®
ONE T
Superior performance
"single-stock"
low-E glass
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 CO₂ 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

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 façade 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”.

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.

Technical Specifications

Performance Data

<table>
<thead>
<tr>
<th></th>
<th>DGU</th>
<th>TGU</th>
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<tbody>
<tr>
<td>External Pane</td>
<td>SGG PLANICLEAR</td>
<td>SGG PLANICLEAR</td>
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<tr>
<td>Internal Pane(s)</td>
<td>SGG PLANITHERM ONE T</td>
<td>SGG PLANITHERM ONE T</td>
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<tr>
<td>Composition in mm</td>
<td>4(16)4</td>
<td>6(16)6</td>
</tr>
<tr>
<td></td>
<td>4(16)4(16)4</td>
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<tr>
<td>Coating Positions</td>
<td>Face 3</td>
<td>Face 3/5</td>
</tr>
<tr>
<td>LT</td>
<td>70%</td>
<td>69%</td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td>LRe</td>
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</tr>
<tr>
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<tr>
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<tr>
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<td>32%</td>
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<tr>
<td>g-value*</td>
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<tr>
<td></td>
<td>0.42</td>
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<td>Shading Coefficient</td>
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<td>U-Value in W/m²K Air</td>
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<td>90% Argon</td>
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<td></td>
<td>0.5</td>
<td>0.49</td>
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</table>

*Positioning the coating on Face 2 reduces the g-value in DGU to 0.46 (4mm) and 0.48 (6mm).

SGG PLANITHERM ONE T meets the durability requirements of class C of European Standard EN1096. Light and solar performance are in accordance with EN410.

Distributor

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