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:

Commercial New Build and Renovation Solutions:
- Façades and windows
- Structural glazing
- Overhead glazing

Residential New Build Solutions:
- Windows and skylights
- Patio doors, French doors and other external doors

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 commercial new build and renovation projects using steel and aluminium frames, as well as residential new build applications.
  - 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.

- 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

<table>
<thead>
<tr>
<th>Composition in mm</th>
<th>SGG PLANITHERM ONE I</th>
<th>SGG PLANITHERM ONE II</th>
</tr>
</thead>
<tbody>
<tr>
<td>LT</td>
<td>90% Argon</td>
<td>90% Argon</td>
</tr>
<tr>
<td>LRe</td>
<td>22%</td>
<td>22%</td>
</tr>
<tr>
<td>LRI</td>
<td>23%</td>
<td>23%</td>
</tr>
<tr>
<td>g-value</td>
<td>0.49</td>
<td>0.50</td>
</tr>
<tr>
<td>Shading Coefficient</td>
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<td>0.57</td>
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<tr>
<td>U-value in W/m²K</td>
<td>1.3</td>
<td>1.0</td>
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<tr>
<td>Air</td>
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<td></td>
</tr>
</tbody>
</table>

* Light and solar performance according to EN 410

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

Positioning the coating on Face 2 affects the performance values, i.e. g-value of 0.46 (PLT ONE) and 0.47 (PLT ONE II).

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