The Energy Saving Recommended logo has been developed by the Energy Saving Trust to distinguish the most energy efficient products on the market. The Energy Saving Trust is an independent, non-profit making organisation backed by the Government. Its aim is to cut emissions of carbon dioxide (CO₂) – the main greenhouse gas causing climate change – by promoting the sustainable and efficient use of energy.

Windows with a B rating or higher are eligible to be endorsed by the Energy Saving Trust and (subject to approval) to use the Energy Saving Recommended logo.

High performance low-E glass products such as SGG PLANITHERM TOTAL+ are recognised as being an essential component in improving the energy efficiency of windows and can help windows to qualify for Energy Saving Recommended status.

### Technical Specifications

#### Performance Data

<table>
<thead>
<tr>
<th></th>
<th>SGG PLANITHERM TOTAL+</th>
<th>SGG PLANICLEAR</th>
<th>SGG DIAMANT</th>
<th>SGG PLANICLEAR</th>
<th>SGG DIAMANT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Composition in mm</strong></td>
<td>4(16)4</td>
<td>4(16)16(16)4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Low-Emissivity Coating Position</strong></td>
<td>Face 3</td>
<td>Face 3/5</td>
<td>Face 3/5</td>
<td>Face 3/5</td>
<td>Face 3/5</td>
</tr>
<tr>
<td><strong>LT</strong></td>
<td>81%</td>
<td>74%</td>
<td>73%</td>
<td>73%</td>
<td>73%</td>
</tr>
<tr>
<td><strong>Life</strong></td>
<td>12%</td>
<td>16%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LN</strong></td>
<td>17%</td>
<td>16%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>T</strong></td>
<td>64%</td>
<td>59%</td>
<td>52%</td>
<td>59%</td>
<td>52%</td>
</tr>
<tr>
<td><strong>R</strong></td>
<td>20%</td>
<td>19%</td>
<td>25%</td>
<td>26%</td>
<td>26%</td>
</tr>
<tr>
<td><strong>A1</strong></td>
<td>6%</td>
<td>3%</td>
<td>6%</td>
<td>3%</td>
<td>3%</td>
</tr>
<tr>
<td><strong>A2</strong></td>
<td>9%</td>
<td>12%</td>
<td>11%</td>
<td>15%</td>
<td>15%</td>
</tr>
<tr>
<td><strong>A3</strong></td>
<td>–</td>
<td>–</td>
<td>6%</td>
<td>7%</td>
<td>7%</td>
</tr>
<tr>
<td><strong>g-value</strong></td>
<td>0.73</td>
<td>0.75</td>
<td>0.63</td>
<td>0.64</td>
<td></td>
</tr>
<tr>
<td><strong>Shading Coefficient</strong></td>
<td>0.83</td>
<td>0.86</td>
<td>0.72</td>
<td>0.74</td>
<td></td>
</tr>
<tr>
<td><strong>U-value in W/m²K</strong></td>
<td>1.4</td>
<td>0.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Air 90% Argon</strong></td>
<td>1.2</td>
<td>0.6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Energy Saving Recommended logo is available for double glazed units. For multi-pane units with differing U-values, the logo can be awarded on each pane provided each pane meets the required performance standards.

#### Energy Saving Trust

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Windows with a B rating or higher are eligible to be endorsed by the Energy Saving Trust and (subject to approval) to use the Energy Saving Recommended logo.
Since 2011, Saint-Gobain Glass UK has supported the industry by changing the UK market. It has been optimised for even better Window Energy Ratings (WERs) and as such is one of the most energy efficient window glass products available today.

SGG PLANITHERM TOTAL+ is a high performance low-E glass developed in the UK, specifically for the particular needs of the UK market. It has been developed to significantly improve its durability and ease of processing, helping to ensure that final units are of the highest quality.

SGG PLANITHERM TOTAL+ is manufactured on Saint-Gobain Glass UK float plant in Segraburg on the magnetron coater. SGG PLANITHERM TOTAL+ is available in a full range of thicknesses and dimensions.

SGG PLANITHERM TOTAL+ is an online coated low-E glass that can be used in either coated glass or laminated forms. It can be used in either annealed or toughened forms. This significantly reduces stockholding, reducing working capital, freeing up warehouse space, as well as simplifying logistics and production planning.

SGG PLANITHERM TOTAL+ has been developed to significantly improve its durability and ease of processing, helping to ensure that final units are of the highest quality.

SGG PLANITHERM TOTAL+ has been developed for the most demanding low-E applications. Typically the coating is positioned throughout a particular application. Appearance may vary slightly, so it is important to maintain consistent coating positioning throughout a particular project.

Applications

- FREE Member Profile as our consumer launches www.planitherm.com
- Online ToolSet
- Free Online Marketing Portal
- Online Ordering Option
- FREE RunToTherm Research kits on every PLANITHERM installation

Benefits

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Benefits for glass processors:

- Improved Thermal Insulation

Using the very latest advancements in magnetron coating technology from Saint-Gobain Glass, this new coating combines much improved processing qualities, while maintaining the excellent aesthetics that are expected from the SGG PLANITHERM range.

SGG PLANITHERM TOTAL+ is available as either STADPH and STADPH PROTECT, offering a comprehensive range of multi-functional glazing solutions can be achieved.

Benefits

- Improved Thermal Insulation

SGG PLANITHERM TOTAL+ offers a high level of light transmission, maximising the entry of natural daylight into the building. This type of coating also benefits the U-values of ‘low-E’ glass onGUAs compared with hard coated low-E products.

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SGG PLANITHERM TOTAL+ is a unique family of low-E glasses designed for the most demanding applications.

Benefits for fabricators/consumers:

- Increased Thermal Insulation

To comply with Building Regulations requirements for harder glazing, SGG PLANITHERM TOTAL+ has been optimised with an exceptional Window Energy Rating performance.

Benefits

- Improved Thermal Insulation

Processing

SGG PLANITHERM TOTAL+ must always be inserted in double or triple glazed units as a single pane. The coating is generally placed on face 2 without affecting the U-value.

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