SGG PLANITHERM® ULTRA N

Low-E coated glass

SGG PLANITHERM® ULTRA N II
SGG PLANITHERM® ULTRA N / ULTRA N II

Thermal insulation at the top level

Applications

SGG PLANITHERM ULTRA N, low-E coated glass, can be used in all insulating glass units, for new construction or refurbishment works:
- Windows in domestic buildings;
- Conservatories;
- Windows and façades in non-residential buildings.
It can be incorporated in all types of frames.

Description

SGG PLANITHERM ULTRA N is a high performance low-E coated glass, to be processed into an insulating glass unit. It is made of a clear float glass on which a thin transparent coating has been deposited by magnetron sputtering under vacuum. The coating reflects the far infrared radiation thus limiting the heat transfer by radiation.

Processing

SGG PLANITHERM ULTRA N should always be processed into an insulating glass unit. The coating along the edges is removed then placed inside the cavity, in face 2 or 3. It can be tempered (in the case of the post-temperable version) or laminated prior to its manufacture in IGU. Please read our guidance for use.

Benefits

SGG PLANITHERM ULTRA N offers up to three times more thermal insulation compared to a standard non low-E double glazing unit.
- Money savings in all climates.
- Great comfort level:
  - No cold area around windows;
  - Maximal use of living areas;
  - Great reduction of condensation levels on the inner pane.
- High light and solar transmission maximizing the entry of natural light and energy into buildings.
- Large architectural possibilities (neutral appearance).
- Environmentally friendly thanks to the CO₂ emission reduction.

Product range

Monolithic glass
- Thickness:
  - from 3mm to 12mm
- Substrate:
  - clear float SGG PLANILUX
  - extra-clear float SGG DIAMANT
- Size:
  - Split sizes and Jumbo size (6000 mm x 3210 mm)
- To be tempered version:
  - SGG PLANITHERM ULTRA N II

Once tempered, this glass has the same radiation properties as the annealed SGG PLANITHERM ULTRA N.

Laminated safety glass
- Numerous possibilities of compositions, including one or more PVB interlayer foils.
- Acoustic laminated glass SGG STADIP SILENCE.

Performances

SGG PLANITHERM ULTRA N complies with the requirements of the class C of the standard EN 1096 and is CE marked (www.saint-gobain-glass.com/ce).

<table>
<thead>
<tr>
<th>Glass substrate</th>
<th>Clear float</th>
<th>Extra clear float</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light factors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LT (%)</td>
<td>80</td>
<td>83</td>
</tr>
<tr>
<td>Lr (%)</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Solar factor g</td>
<td>0.63</td>
<td>0.67</td>
</tr>
<tr>
<td>SC (mmK/m²W)</td>
<td>0.69</td>
<td>0.74</td>
</tr>
<tr>
<td>U-value W/(m²K)</td>
<td>1.4</td>
<td>1.4</td>
</tr>
<tr>
<td>Air filled cavity</td>
<td>1.1</td>
<td></td>
</tr>
<tr>
<td>Argon filled cavity</td>
<td>1.1</td>
<td></td>
</tr>
</tbody>
</table>

Average values given according to EN norms, subject to modifications.

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