

SGG ALBARINO®

*High energy transmittance  
patterned glass*

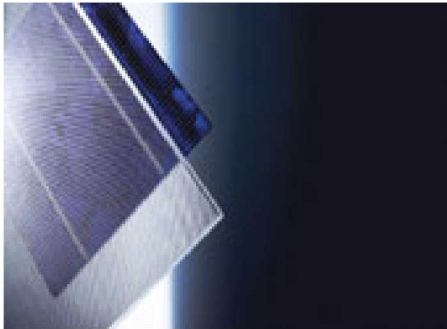
Technical Sheet  
United Kingdom

# SGG ALBARINO®

## *High energy transmittance patterned glass*

### Description

SGG ALBARINO is an extra-clear patterned glass with a high level of energy transmittance. SGG ALBARINO has a very low iron oxide content, giving it much higher light and energy transmittance factors than those of SGG PLANILUX clear float glass.



*SGG ALBARINO S for photovoltaic modules*

### Applications

The unique properties of SGG ALBARINO make it ideal for applications where high light and energy transmittance levels are required.

It has been developed especially for the photovoltaic and solar thermal industry with the objective of increasing the energy yield and protecting solar cells. The main solar energy applications are:

- Photovoltaic modules
- Solar thermal collectors
- Solar energy plants
- Greenhouses.

### Advantages

SGG ALBARINO is durable and as easy to process as conventional surface patterned glasses (cutting, edgeworking, drilling, toughening, laminating, curving).

## Range

The SGG ALBARINO range consists of 4 products with different surface characteristics, to meet the requirements of the solar energy industry:

- SGG ALBARINO T: fine textured glass (on both faces), for solar thermal modules
- SGG ALBARINO S: lightly textured on one face, designed for photovoltaic modules
- SGG ALBARINO P: deep pyramidal texture, increasing the energy transmittance to the photovoltaic cells
- SGG ALBARINO G: grooved texture, increasing the efficiency of photovoltaic modules and designed to permit water to drain from the glass surface.

SGG ALBARINO extra clear glass is available in the following thicknesses:

- SGG ALBARINO T and S : 3.2 mm and 4 mm
- SGG ALBARINO P and G : 4 mm.

## Performance

Measurements taken for the 3.2 mm and 4 mm thicknesses are taken in accordance with ISO 9050, and ISO 9845 standard test conditions:

- Light transmittance: 91.5%
- Energy transmittance: 91.3%.

- SGG ALBARINO P: has an increased energy transmittance of 3% per annum compared with SGG ALBARINO T or S, under standard test conditions. This efficiency gain may reach 10% for solar light at a 70° angle of incidence. These results are achieved by reducing light reflectance at the air-glass interface and capturing reflected light at the polymer- solar cell interface.
- SGG ALBARINO G: energy transmittance efficiency gain of 2.5% per annum in comparison with SGG ALBARINO T or S.

## Processed Product Variations

SGG ALBARINO extra clear glass is designed to be:

- Easily cut to size for final end use
- Edgeworked
- Drilled
- Toughened.

Toughened SGG ALBARINO increases its resistance to mechanical stresses and temperature variations. It can be finished with various types of edgework: bevelled edge, ground edge, polished edge, smooth ground edge etc.

The performance of SGG ALBARINO glass can be improved by applying an anti-reflective coating to the outer face of the glass. This process increases the light transmittance and energy transmittance of the glass.

## Standards and Regulations

SGG ALBARINO complies with standard BS EN 572-5.

SGG ALBARINO is toughened in accordance with standard BS EN 12150-1.



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