

SGG BIOCLEAN® COOL-LITE AQUA GREEN

Handling & Processing Guidelines

Dual coated, body-tinted glass with self-cleaning and additional solar control properties.

Description

SGG BIOCLEAN COOL-LITE AQUA GREEN is the latest development in the conservatory glass range of products from Saint-Gobain Glass. Introducing a subtle blue/green tinted glass into the highly successful BIOCLEAN COOL-LITE ST range, this unique product offers additional solar control and pleasant aesthetics.

The SGG BIOCLEAN self-cleaning coating conforms to Class A of standard EN1096, ensuring a high level of durability for coatings on face 1.

Product Range

| SGG BIOCLEAN COOL-LITE AQUA GREEN | |
|-----------------------------------|------------------------------------|
| Thickness: | 4mm |
| Dimensions (in mm): | PLF 6000 x 3210 DLF 3210 x 2250 |

Toughened Glass

SGG BIOCLEAN COOL-LITE AQUA GREEN is a "to be tempered" product and therefore must always be toughened.

Monolithic & Double Glazing

SGG BIOCLEAN COOL-LITE AQUA GREEN is suitable for use in both single and double glazing.

SGG BIOCLEAN COOL-LITE AQUA GREEN

U-value

1.0 W/m²K

(4(16)4 unit with 90% argon combined with SGG PLANITHERM 4S)

Solar Factor

0.22

Light Transmittance

33%

Light Reflectance

22%

Processing Guidelines

SGG BIOCLEAN COOL-LITE AQUA GREEN must always be toughened.

When assembled into a doubled glazed unit care needs to be taken to ensure that the self-cleaning coating is placed on face 1.

SGG BIOCLEAN COOL-LITE AQUA GREEN should be stored in a dry and well ventilated location.

The use of silicone seals should be prohibited when they come into direct contact with the SGG BIOCLEAN coating. Silicone can leach onto the coating affecting the self-cleaning performance. Saint-Gobain Glass recommends the use of silicone free products with SGG BIOCLEAN.

For a list of products that are compatible with SGG BIOCLEAN or for full guidance on handling and processing please contact the SGGUK Marketing Department or visit www.selfcleaningglass.com

Applications

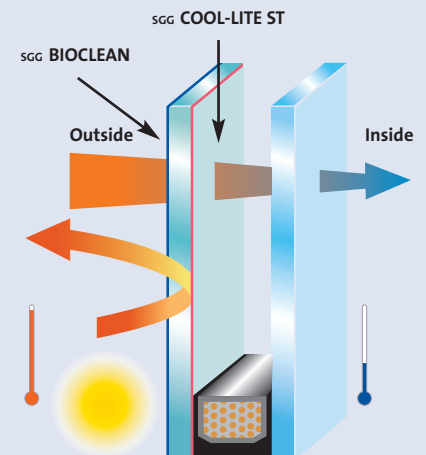
SGG BIOCLEAN COOL-LITE AQUA GREEN is an extremely versatile product, offering a long-term and effective low-maintenance solution coupled with unrivalled solar control performance.

This glass is particularly suited to applications where access for cleaning is either difficult or dangerous. It also allows for large areas of glazing, whilst helping to reduce glare and excessive heat build up.

Product Combinations

SGG BIOCLEAN COOL-LITE AQUA GREEN can be combined with many other high performance products in the Saint-Gobain range, such as SGG PLANITHERM 4S for optimum solar protection and thermal insulation.

Double glazed unit with SGG BIOCLEAN COOL-LITE AQUA GREEN



Up to 78% of solar radiant heat is blocked.
(solar factor as low as 0.22 when combined with SGG PLANITHERM 4S).

Technical Specifications

SGG BIOCLEAR COOL-LITE AQUA GREEN is available within our CALUMEN software by selecting SGG PARSOL GREEN as the substrate on the outer pane then adding the SGG BIOCLEAR and SGG COOL-LITE ST coatings to face 1 and face 2 respectively. CALUMEN can be downloaded from our website. The most common unit configurations are given in the following table.

| SGG BIOCLEAR COOL-LITE AQUA GREEN performance data | | | | |
|----------------------------------------------------|----|-----------------------------------|----------------------|-------------------|
| | | SGG BIOCLEAR COOL-LITE AQUA GREEN | | |
| | | SGG PLANILUX | SGG PLANITHERM TOTAL | SGG PLANITHERM 4S |
| Composition | mm | 4 -16 - 4 | 4 -16 - 4 | 4 -16 - 4 |
| Position of coating | | | | |
| Self-cleaning | | 1 | 1 | 1 |
| Solar control | | 2 | 2 | 2 |
| Thermal insulation | | | | |
| 4 seasons | | N/A | 3 | 3 |
| Light Factors | | | | |
| LT (Light transmittance) | % | 40 | 39 | 33 |
| LRe (External reflection) | % | 20 | 19 | 22 |
| LRi (Internal reflection) | % | 22 | 19 | 31 |
| UV (UV radiation transmittance) | | | | |
| | | 9 | 7 | 6 |
| Solar Radiant Heat Factors | | | | |
| T (Solar radiant heat transmittance) | % | 26 | 22 | 17 |
| Re (External solar radiant heat reflectance) | % | 14 | 15 | 17 |
| A1 (Solar radiant heat absorbance/Ext) | % | 58 | 60 | 64 |
| A2 (Solar radiant heat absorbance/Int) | % | 2 | 3 | 3 |
| Solar Factor | | | | |
| g EN 410 | | 0.34 | 0.28 | 0.22 |
| Shading Coefficient | | 0.39 | 0.32 | 0.25 |
| U-value* W/(m ² K) | | | | |
| 90% Argon filled cavity (EN1279) | | N/A | 1.2 | 1.0 |
| Air filled cavity | | 2.7 | 1.4 | 1.3 |

*Centre-pane U-values in accordance with EN 673.

SGG BIOCLEAR COOL-LITE AQUA GREEN meets the requirements of standard EN 1096 relating to the durability of coated glass in buildings.

SGG BIOCLEAR conforms to Class A of this standard (for coating on face 1).

SGG COOL-LITE ST conforms to Class B of this standard.



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