

SGG COOL-LITE®
SKN 165/165 II

*High performance
solar control glass
with advanced
thermal insulation
properties*



*Laminated versions
now available*

SGG COOL-LITE® SKN 165/165 II

Combining excellent solar control with thermal insulation properties for optimum energy efficiency

Applications

SGG COOL-LITE SKN 165 and SKN 165 II are two solar control coatings for use in residential or commercial buildings alike, either for façades or overhead glazing. Due to the unique properties of the coatings, they are ideally suited to applications requiring annealed and toughened or heat-strengthened glass.

Description

SGG COOL-LITE SKN 165 and SKN 165 II are solar control products with high performance coatings. The coatings are applied to SGG PLANICLEAR float glass by cathodic sputtering under vacuum conditions.

SGG COOL-LITE SKN 165 II is an addition to the ever-evolving range of 'to be toughened' neutral solar control coatings from SAINT-GOBAIN GLASS.

In order to realise its superior thermal properties, solar control properties and neutral appearance, SGG COOL-LITE SKN 165 II must always be toughened or heat-strengthened before assembly into a double-glazed unit (coating on face 2).

These two products are designed for use side-by-side within the same façade; SGG COOL-LITE SKN 165 in annealed form and SGG COOL-LITE SKN 165 II in toughened/heat-strengthened form.

Benefits

SGG COOL-LITE SKN 165 balances the advantages of a high performance and very neutral solar control product with:

- a high light transmission
- a very low g-value, which reduces

solar gain by as much as 50% compared to standard thermally insulating glass

- an excellent U-value of 1.0W/m²K
- a high degree of neutrality both in transmission and exterior reflection

SGG COOL-LITE SKN 165 can be used to create more comfortable interiors by reducing overheating and the need for costly air conditioning, whilst at the same time noticeably reducing excessive heat loss.

SGG COOL-LITE STADIP SKN 165 is also available which adds the following benefits:

Acoustic benefits – Improved acoustic performance.

Safety benefits – Helps protect against accidental and wilful damage.

Security – Can achieve a P1A & P2A Accreditation for BS EN 356.

UV filtration – To help protect furnishings from fading from UV light.

Range

SGG COOL-LITE SKN 165 is available in 6000mm x 3210mm dimensions, in 6, 8 and 10mm thicknesses (12mm available on request) allowing for oversized high-specification units.

SGG COOL-LITE STADIP SKN 165 is available in 6.4mm up to 8.8mm with thicker laminates available on request.

Instructions for use

The technical performance and aesthetics of SGG COOL-LITE SKN 165 (annealed) and SGG COOL-LITE SKN 165 II (to be toughened/heat-strengthened) are identical. SGG COOL-LITE SKN 165 II

can be toughened from stock enabling a quick turnaround for toughened/heat-strengthened double-glazed units. Together, these two coatings can be used to produce exciting and innovative projects within a short timescale. There is the additional advantage, therefore, of a short lead time for replacements.

Technical Specifications

Performance Data

| | SGG with COOL-LITE SKN | SGG with COOL-LITE STADIP SKN |
|-----------------------------|------------------------------|---|
| Internal Pane | SGG PLANICLEAR | SGG PLANICLEAR |
| External Pane | SGG COOL-LITE SKN 165/165 II | SGG STADIP / SGG COOL-LITE SKN 165/165 II |
| Composition in mm | 6(16)6 | 6.8(16)6 |
| Coating Positions | Face 2 | Face 2 |
| LT | 60% | 60% |
| LRe | 16% | 16% |
| g-value* | 0.34 | 0.32 |
| Shading Coefficient | 0.39 | 0.37 |
| U-Value in W/m²K Air | 1.3 | 1.3 |
| 90% Argon | 1.0 | 1.0 |
| RW(C,Ctr) 90% Argon | - | 35(-2, -6)dB |

SGG COOL-LITE SKN 165 and SKN 165 II meet the durability requirements of class C of European standards EN 1096-1 and -2. *Light and solar performance according to EN 410

SGG COOL-LITE, SGG PLANICLEAR, SGG STADIP and all other devices and logos are registered trademarks of Saint-Gobain.



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