

SGG COOL-LITE® SKN I/II

A range of high performance solar control and thermal insulation coatings for maximum energy efficiency



SGG COOL-LITE® SKN I/II

A revolutionary range of solar control glass products with combined enhanced thermal insulation, for design, performance and flexibility.

Applications

SGG COOL-LITE SKN now includes 3 different coating options 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.

Advantages

- SGG COOL-LITE SKN range is designed to balance high performance with very neutral aesthetics and offers a wealth of benefits depending on the project requirements:
 - a high light transmission
 - low g-values for optimum solar control
 - excellent U-values
 - a high degree of neutrality both in transmission and exterior reflection
- SGG COOL-LITE SKN products can be used to create more comfortable interiors by considerably reducing overheating and the need for costly air conditioning. It is particularly suited to large areas of glazing where superior solar control performance is required whilst at the same time noticeably reducing excessive heat loss.

- All of the SGG COOL-LITE SKN coatings are available in a "to be toughened/heat strengthened" version, offering the same technical performance and aesthetics as the annealed product. This means they can be toughened from stock enabling a quick turnaround for toughened/heat-strengthened double-glazed units. All coatings offer a range of solutions for exciting and innovative projects within a short timescale. There is the additional advantage, therefore, of a short lead time for replacements.

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

Description

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

SGG COOL-LITE SKN 154 II is the newest addition to the ever-evolving range of "to be toughened" neutral solar control coatings from SAINT-GOBAIN GLASS.

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

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

Performance

Internal Pane		SGG COOL-LITE SKN double-glazed units		
		SGG PLANILUX		
External Pane		SGG COOL-LITE SKN 174/174 II	SGG COOL-LITE SKN 165/165 II	SGG COOL-LITE SKN 154/154 II
Composition	mm	6(16)4	6(16)4	6(16)4
Light Factors				
LT	%	68	60	50
LRe	%	10	15	18
Solar Factor				
g _{EN 410}		0.41	0.33	0.27
Shading Coefficient		0.47	0.38	0.31
U-Value				
Air	W/m ² K	1.4	1.4	1.4
90% Argon	W/m ² K	1.1	1.1	1.0*

SGG COOL-LITE SKN I/II meets the durability requirements of class C of European standards EN 1096-1 and -2.

* U-Value applies to SGG COOL-LITE SKN 154 II (to be toughened version) only.

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