

SGG COOL-LITE® SKN 174
SGG COOL-LITE® SKN 174 II

High performance solar control glass with advanced thermal insulation properties



SGG COOL-LITE® SKN 174

SGG COOL-LITE® SKN 174 II

Combining high performance with excellent neutrality, for optimal solar control and thermal efficiency

Applications

SGG COOL-LITE SKN 174 and SKN 174 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.

Advantages

- SGG COOL-LITE SKN 174 balances the advantages of a high performance and very neutral solar control product with:
 - a high light transmission
 - a low g-value, which reduces solar gain by as much as 30% compared to standard thermally insulating glass
 - an excellent U-value of 1.1W/m²K
 - a high degree of neutrality both in transmission and exterior reflection.
- SGG COOL-LITE SKN 174 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.

- The technical performance and aesthetics of SGG COOL-LITE SKN 174 (annealed) and SGG COOL-LITE SKN 174 II (to be toughened/heat-strengthened) are identical. SGG COOL-LITE SKN 174 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.

- SGG COOL-LITE SKN 174 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 174 and SKN 174 II 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 174 II forms part of 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 SKN174 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 174 in annealed form and SGG COOL-LITE SKN 174 II in toughened/heat-strengthened form.

Performance

SGG COOL-LITE SKN 174/174 II double-glazed units		
Internal Pane	SGG PLANILUX	
External Pane	SGG COOL-LITE SKN 174/174 II	
Composition	mm	6(16)6
Light Factors	LT	% 67
	LRe	% 10
Solar Factor	g _{EN 410}	0.41
	Shading Coefficient	0.47
U-Value	Air W/m ² K	1.4
	90% Argon W/m ² K	1.1

SGG COOL-LITE SKN 174 / SKN 174 II meets the durability requirements of class C of European standards EN 1096-1 and -2.

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