

SGG COOL-LITE®
SKN 174/174 II

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

*Laminated versions
now available*

SGG COOL-LITE® SKN 174/174 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.

Description

SGG COOL-LITE SKN 174 and SKN 174 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 174 II forms part of 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 174 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.

Benefits

SGG COOL-LITE SKN 174 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 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.

SGG COOL-LITE STADIP SKN 174 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 174 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 174 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 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.

Technical Specifications

Performance Data

	SGG COOL-LITE SKN	SGG COOL-LITE STADIP SKN
Internal Pane	SGG PLANICLEAR	SGG PLANICLEAR
External Pane	SGG COOL-LITE SKN 174/174 II	SGG STADIP / SGG COOL-LITE SKN 174/174 II
Composition in mm	6(16)6	6.8(16)6
Coating Positions	Face 2	Face 2
LT	68%	68%
LRe	11%	11%
g-value*	0.41	0.39
Shading Coefficient	0.47	0.45
U-Value in W/m²K Air	1.4	1.4
90% Argon	1.1	1.1
RW(C,Ctr) 90% Argon	-	34(-2, -5)dB

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

* Light and solar performance according to EN 410

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Saint-Gobain Glass (United Kingdom) Ltd
Weeland Road, Eggborough
East Riding of Yorkshire, DN14 0FD, UK

www.saint-gobain-glass.com/uk

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