

SGG COOL-LITE® SKN 144 II

High performance solar control glass with advanced thermal insulation properties

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

Applications

SGG COOL-LITE SKN 144 II is a 'to be tempered' solar control coating for use in residential or commercial buildings alike, either for façades or overhead glazing. Due to the unique properties of the coating, it is ideally suited to applications requiring toughened or heat-strengthened glass.

Description

SGG COOL-LITE SKN 144 II is a solar control product with a high performance coating. The coating is applied to SGG PLANILUX clear float glass by cathodic sputtering under vacuum conditions.

SGG COOL-LITE SKN 144 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 144 II must always be toughened or heat-strengthened before assembly into a double-glazed unit. For optimum performance and aesthetics the SGG COOL-LITE SKN 144 II coating should always be positioned on face 2 of a double-glazed unit.

Advantages

- SGG COOL-LITE SKN 144 II is designed to offer exceptional solar and thermal performance:
 - very low g-value of 0.23
 - optimum U-value of 1.1W/m²K
 - neutral appearance both in transmission and exterior reflection
 - good levels of natural light transmission
- SGG COOL-LITE SKN 144 II can be used to improve the energy efficiency of buildings 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.
- SGG COOL-LITE SKN 144 II must be toughened from stock due to the absorption of the coating requiring toughened glass for thermal safety reasons.
- SGG COOL-LITE SKN 144 II is available in 6000mm x 3210mm dimensions, in 6, 8 and 10mm thicknesses (12mm available on request) allowing for over-sized high-specification units.

Performance

SGG COOL-LITE SKN double-glazed units		
Internal Pane	SGG PLANILUX	
External Pane	SGG COOL-LITE SKN 144 II	
Composition	mm	6(16)6
Light Factors		
LT	%	40
LRe	%	20
Solar Factor		
g EN 410		0.23
Shading Coefficient		0.27
U-Value		
Air	W/m²K	1.4
90% Argon	W/m²K	1.1

SGG COOL-LITE SKN 144 II meets the durability requirements of class C of European standards EN 1096-1 and -2.

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Printed on 160gsm Cocoon Offset,
 an extra-white certified FSC
 100% recycled paper using vegetable based inks

