

SGG COOL-LITE® SKN 176 II

70% Light Transmission
and 0.37 g-value

*High performance
solar control glass
with advanced
thermal insulation
properties and
excellent neutrality*

*Unimensa, Kassel (D)
Photographer: paulus.photography*

*4mm Option
Now Available*

SGG COOL-LITE® SKN 176 II

Combining high performance solar control with excellent neutrality, for applications requiring high light transmittance combined with a low g-value.

Description

SGG COOL-LITE SKN 176 II is a solar control product that features a high performance coating. The coating is applied to SGG PLANICLEAR float glass by cathodic sputtering under vacuum conditions.

SGG COOL-LITE SKN 176 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 performance and neutral appearance, SGG COOL-LITE SKN 176 II must always be toughened or heat-strengthened before assembly into a double-glazed unit.

Applications

SGG COOL-LITE SKN 176 II is a solar control coating for use in residential or commercial buildings, either for façades or overhead glazing. Due to the unique properties of the coating, it is ideally suited to applications requiring a high light transmittance, low g value and excellent neutrality.

The 4mm option allows the product to be used in applications such as high end residential / low end commercial applications. This extended functionality allows more design flexibility whilst retaining excellent neutral aesthetics.

Benefits

SGG COOL-LITE SKN 176 II balances the advantages of a high performance neutral solar control product with:

- High light transmission 70%.
- Low g-value of 0.37.
- Excellent U-value of 1.0W/m²K.
- High degree of neutrality.

SGG COOL-LITE SKN 176 II 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 high light transmittance also reduces the requirement for interior lighting during daylight hours, helping reduce energy costs even further.

Range

SGG COOL-LITE SKN 176 II is available in 6000mm x 3210mm and 3210mm x 2550mm dimensions and in 4, 6, 8 and 10mm thicknesses allowing for increased flexible design capabilities.

Technical Specifications

Performance Data

	DGU with SGG COOL-LITE SKN 176 II
Internal Pane	SGG PLANICLEAR
External Pane	SGG COOL-LITE SKN 176 II
Composition in mm	6(16)6
Coating Positions	Face 2
LT	70%
LRe	13%
LRI	15%
g-value*	0.37
Shading Coefficient	0.43
U-Value in W/m ² K Air	1.3
90% Argon	1.0

SGG COOL-LITE SKN 176 II meets the durability requirements of class C of European standards EN 1096-1 and -2. * Light and solar performance according to EN 410.

Instructions for Use

For optimum performance and aesthetics SGG COOL-LITE SKN 176 II must always be toughened or heat-strengthened before assembly into a double-glazed unit. SGG COOL-LITE SKN 176 II must also be edge-deleted and should always be positioned on face 2 of a double or triple glazed unit for optimum performance.

Please see the SGG COOL-LITE SKN handling guidelines for more information.

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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

@SG_GlassExperts

Saint-Gobain Glass UK



Distributor