

TITLE

SGG PLANITHERM® 1.16/1.16 II

SUBTITLE

Advanced high performance low- emissivity glass



DESCRIPTION

SGG PLANITHERM® 1.16/1.16II is high transmission range of high performance low- emissivity products, offering the lowest centre pane U- value in the market thus providing excellent thermal insulation for the most demanding of glass specifications.

Renowned for its extremely neutral appearance, SGG PLANITHERM very effectively reflects long- wave heat radiation back into a room, thereby minimising heat loss through a window while also maximising solar heat gain and natural light transmission.

The SGG PLANITHERM coating is generally positioned on face 2 of a double glazed unit though it is possible to place the coating on face 3. And it can also be combined with other solar control coatings(coated on face 2) when PLANITHERM coating place on face 3.

The high transmission and great thermal performance allow architects and specifiers to utilise large areas of glazing and create bright, and especially is ideal suitable for application in north regions of China.

RANGE

Product	Thickness	Dimension
PLT1.16 /1.16II	3mm	3050mm*2134mm 3210mm*2250mm 3150mm*2250mm
	4mm	3050mm*2134mm/2440mm 3300mm*2134mm/2440mm 3210mm*2250mm
	5mm	3050mm*2134mm/2440mm 3300mm*2134mm/2440mm
	6/8/10mm	3050mm*2134mm/2440mm 3300mm*2134mm/2440mm 3660mm*2540mm
	12mm	3050mm*2134mm/2440mm 3300mm*2134mm/2440mm

Max : 6mm(4200mm*2440mm)
8mm/10mm(4200mm/4500mm*2440mm)

PERFORMANCE

Product	Structure	Face	Luminous factor (%)		SC	U value (W/m ² .K)	
			TL	RLe		Air	Argon
PLT1.16 /1.16II	5-9-5	2	79	12	0.65	2	1.6
		3	79	12	0.73	2	1.6
	6-9-6	2	78	12	0.64	2	1.6
		3	78	12	0.72	2	1.6
	6-12-6	2	78	12	0.64	1.7	1.3
		3	78	12	0.73	1.7	1.3
	6-16-6	2	78	12	0.64	1.4	1.2
		3	78	12	0.73	1.4	1.2

PRODUCT APPLICATION

SGG PLANITHERM®1.16II is designed for use in all double glazing applications, in all frame types for both new- build and replacement markets:

windows and skylights in residential buildings and private domestic housing
conservatories and patio doors and other external doors

windows and façades of commercial buildings
industrial freezer

ADVANTAGE

Enhanced Thermal Insulation

With an optimum centre- pane U- value of $1.2 \text{ W/ m}^2 \cdot \text{K}$ (90% argon- filled), sGG Planitherm 1.16II can comfortably meet current Building Regulations by improving whole window U- vales for all frame types.

A double- glazed unit incorporating sGG PLANITHERM is more thermally efficient than an ordinary double- glazed unit and offers significantly better thermal insulation compared to traditional hard coated low- E products:

Considerable reductions in heating bills

Reduces condensation on the inner pane

Eliminates cold areas around windows resulting in greater comfort

Environmentally friendly solution, given the lower CO₂ emissions associated with reduced energy consumption

Facilitates compliance with building regulations for a wider range of frame designs

Neutral Appearance

Remarkably neutral appearance in both transmission and reflection. Maximises entry of natural daylight, and maximises use of living and working areas.

Exceptional Clarity

The sGG PLANITHERM range offers a high level of light transmittance, maximising the entry of natural daylight into the building. These types of coatings also benefit from a lack of the 'haze effect' commonly associated with hard coated products.