

SGG PLANITHERM[®] 4S

*Low-E glass
4 seasons comfort*



SGG PLANITHERM® 4S

Improved comfort, lighting, energy saving and environmental protection, all year round!!

Applications

SGG PLANITHERM 4S low-E and 4 seasons comfort glass can be used for windows and façades in residential or non-residential buildings (schools, hotels, restaurants, shopping centres, hospitals, sports centres). Its neutral appearance makes it particularly suited to vertical glazing for year round comfort, whilst maximising the transmission of natural light.

Benefits

- In wintertime
 - Energy savings due to reduced heating requirement
 - Reduced condensation on the inner pane
 - Improved comfort due to reduced cold spots and drafts: no cold areas around windows
- In summertime
 - Improved comfort due to reduced overheating
 - Cost reduction where there is air conditioning
- In all seasons
 - Environmentally friendly thanks to the CO₂ emission reduction

Description

SGG PLANITHERM 4S is manufactured on a magnetron coater. It is made of high quality SGG PLANILUX clear float glass on which a coating has been deposited by magnetron sputtering under vacuum. The resultant microscopically thin, metallic coating very effectively reflects long and short wave heat radiation for combined low solar factor and thermal insulating (low-E) properties.

Product range

Monolithic glass

- Standard thickness: 4mm and 6mm
- Substrate:
 - clear float SGG PLANILUX
- Size:
 - Split sizes and Jumbo size (6000 mm x 3210 mm)
- To be tempered version: SGG PLANITHERM 4S II.

Laminated safety glass

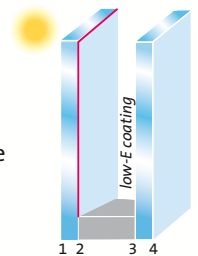
- Numerous possibilities of compositions, including one or more PVB interlayer foils.
- Acoustic laminated glass SGG STADIP SILENCE.

For combination with SGG BIOCLEAN self cleaning glass, please ask for more details.

For other thickness and dimension, please contact us.

Processing

SGG PLANITHERM 4S should always be assembled into a double-glazed unit. The coating is generally placed on face 2 of the unit. The coating along the edges is removed then placed inside the cavity.



It can be laminated prior to its manufacture in IGU. It should be stored in a dry and well ventilated location; please read our guidance for use. In case of need of tempered glass, there is a post temperable version.

Performances

Performances DGU 4 mm - 16 mm - 4 mm

Internal pane	Clear float	
External pane (coating on face2)	SGG PLANITHERM 4S	SGG PLANITHERM 4S II - tempered
Light factors	LT %	66
	LRe %	26
	LRi %	25
Solar factors	g	0.43
	SC	0.50
U-value W/(m ² .K)	Air filled cavity	1.4
	Argon filled cavity	1.1

Average values according to EN410 and EN673 standards, and subject to modification. SGG PLANITHERM 4S / 4S II comply with the requirements of the class C of the standard EN 1096 and is CE marked.

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