

SGG HORIZON

SGG HORIZON CLEAR (SCN 145)

ADVANCED SOLAR CONTROL GLASS

OFFERING CLEAR VISION AND OCCUPANT PRIVACY



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SGG Horizon is an advanced coated glass manufactured by the state-of-art magnetron sputtering process under vacuum conditions. SGG Horizon Clear comes with extremely low internal reflections enabling clear vision during the day as well as night .

FEATURES

SGG Horizon Clear is a unique product that offers best of solar control with minimum internal reflections enabling the occupant to better visual connect even during night

- Low internal reflections resulting in excellent night view
- Optimum Light Transmission
- Solar control
- Thermal insulation
- UV protection

THICKNESSES

- Standard thicknesses of 4mm, 5mm and 6mm are available
- 8mm, 10mm and 12mm are available on special request

PROCESSING

SGG Horizon Clear is suited for use in both single and double glazed units. To obtain its performance and aesthetics, SGG Horizon Clear can be

- Tempered /Heat Strengthened
- Assembled into an IGU
- Laminated units
- Bent units

APPLICATIONS

- Windows
- Skylights
- Structural glazing
- Façade glazing
- Bolted systems
- Curtain wall glazing
- Fenestration applications.

SUSTAINABILITY

As the world leader in glass manufacturing for the construction market, Saint-Gobain worldwide is committed to provide innovative solutions.

SGG Horizon Clear can add value in occupant comfort, energy efficiency and is a sustainable product with recycled content. This will suit the requirements of green building labelling systems like:



SGG Horizon Clear products conform to:



SAINT-GOBAIN GUARANTEE

654 PPI

PURITY KA
PERFECT
MEASURE.



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PRODUCT
SELECTION, REACH
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PRODUCT PERFORMANCE

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SGU: 6 mm Coated Glass (Coating Face 2)

DGU: 6 mm Coated Glass (Coating Face 2) – 12 mm Air Gap – 6 mm Clear Glass

LIGHT FACTORS

TYPE	TRANSMISSION (%)	REFLECTION (%)	
		EXTERNAL	INTERNAL
SGU	45	22	4
DGU	22	24	12

Luminous factors calculated with CIE (15-2004) D65 lighting Conditions

ENERGY FACTORS

(EN) SOLAR FACTOR	SHADING CO-EFFICIENT	(EN) U-VALUE
SHGC / SF	SC	(W/Sq.m K)
0.44	0.51	4.9
0.37	0.42	2.5

Solar Transmission Characteristics as per EN 410
Thermal Conductance as per EN 673

ENERGY FACTORS

(NRFC) SOLAR FACTOR	SHADING CO-EFFICIENT	(NRFC) U-VALUE SUMMER
SHGC / SF	SC	(W/Sq.m K)
0.45	0.52	4.3
0.37	0.43	2.5

Solar Transmission Characteristics as per NFRC 200/300
Thermal Conductance as per NFRC 100

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SGG HORIZON CLEAR UNDER SUNNY CONDITIONS



SGG HORIZON CLEAR UNDER OVERCAST CONDITIONS

