

# SGG HORIZON

## SGG HORIZON CLEAR (SCN 145)

ADVANCED SOLAR CONTROL GLASS

OFFERING CLEAR VISION AND OCCUPANT PRIVACY





# SGG HORIZON CLEAR (SCN 145)

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.



TO KNOW MORE ON  
PRODUCT  
SELECTION, REACH  
OUT TO US HERE

## PRODUCT PERFORMANCE

### SGG HORIZON CLEAR (SCN 145)

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       |

#### ENERGY FACTORS

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

#### ENERGY FACTORS

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

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

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

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

# SGG HORIZON CLEAR (SCN 145)

SGG HORIZON CLEAR UNDER SUNNY CONDITIONS



SGG HORIZON CLEAR UNDER OVERCAST CONDITIONS

