

# SGG ENVISION

## SGG SUPERNOVA (SKN 465)

HIGH SPECTRAL SELECTIVITY (LIGHT-HEAT RATIO)

OFFERING ADVANCED OCCUPANT THERMAL COMFORT



# SGG SUPERNOVA (SKN 465)

SGG Supernova is an advanced Solar and Thermal insulation glass for energy efficient glazing. Manufactured by deposition of specialized metallic oxides, SGG Envision is created using a magnetically enhanced Nano - technology based cathodic sputtering process, and is the most energy efficient glass in its class.

## FEATURES

SGG SUPERNOVA is engineered exclusively for buildings that need a seamless balance of natural lighting and Solar control.

- **High spectral selectivity**  
(Ratio of Light Transmission to Solar Heat gain coefficient)
- **High thermal insulation**
- **Enhanced Daylighting**
- **Advanced Solar Control**



## THICKNESSES

- Standard thicknesses of 4mm, 5mm, 6mm are available
- 8mm available on special request.



## PROCESSING

To obtain its performance and aesthetics, SGG Supernova must be

- Tempered /Heat Strengthened
- Assembled into an IGU

SGG Supernova can also be used as

- Laminated units
- Bent units



## APPLICATIONS

- Structural glazing
- Façade glazing
- Bolted systems
- Curtain wall glazing
- Fenestration applications.
- Best suited for buildings having extensive glazing requirements.



## SUSTAINABILITY

As the world leader in glass manufacturing for the construction market, Saint-Gobain worldwide is committed to provide innovative solutions to two key challenges of the future:

- **Environmental protection**
- **Energy savings**
- **SGG SUPERNOVA conforms to:**



**AGR**  
Active Glare Reduction

SKN 465, an energy efficient glass on a tinted base comes with **Active Glare Reduction**, filtering out glare like none other. So that you get to enjoy enhanced visual comfort, higher productivity and a whole world of wellbeing.

## PRODUCT PERFORMANCE

### SGG SUPERNOVA (SKN 465)

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

#### LIGHT FACTORS

TRANSMISSION (%)	REFLECTION (%)	
	EXTERNAL	INTERNAL
<b>49</b>	<b>13</b>	<b>18</b>

#### (EN) ENERGY FACTORS (EN)

SOLAR FACTOR	SHADING CO-EFFICIENT	U-VALUE
SHGC / SF	SC	(W/Sq.m K)
<b>0.27</b>	<b>0.32</b>	<b>1.5</b>

#### (NFRC) ENERGY FACTORS (NFRC)

SOLAR FACTOR	SHADING CO-EFFICIENT	U-VALUE
SHGC / SF	SC	(W/Sq.m K)
<b>0.27</b>	<b>0.31</b>	<b>1.6</b>

Thermal transmittance factors are determined by EN 673  
Solar and Luminous factors are determined by EN 410

Solar Characteristics as per NFRC 200/300-2010  
Thermal Transmittance as per NFRC 100 -2010.

# SGG SUPERNOVA (SKN 465)

SGG SUPERNOVA UNDER SUNNY CONDITIONS



SGG SUPERNOVA UNDER OVERCAST CONDITIONS

