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:





SGG SUPERNOVA conforms to:















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 | |
| 49 | 13 | 18 | |

| (EN) ENERGY FACTORS (EN) | | |
|--------------------------|-------------------------|------------|
| SOLAR FACTOR | SHADING CO-EFFICIENT | U-VALUE |
| SHGC / SF | sc | (W/Sq.m K) |
| 0.27 | 0.32 | 1.5 |

| (NFRC) ENERGY FACTORS (NFRC) | | | |
|------------------------------|-------------------------|------------|--|
| SOLAR FACTOR | SHADING CO-EFFICIENT | U-VALUE | |
| SHGC / SF | sc | (W/Sq.m K) | |
| 0.27 | 0.31 | 1.6 | |

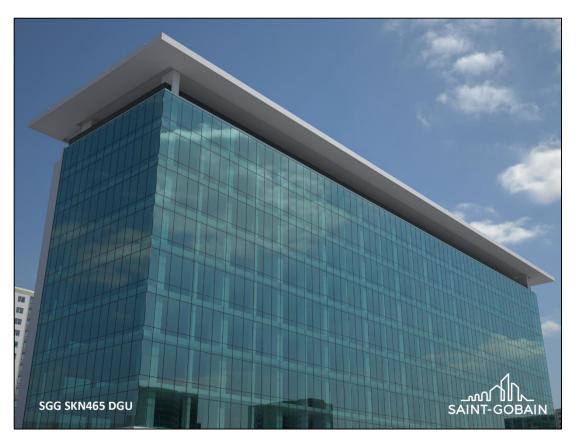
Solar Characteristics as per NFRC 200/300-2010 Thermal Transmittance as per NFRC 100 -2010.

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



sgg SUPERNOVA (SKN 465)

SGG SUPERNOVA UNDER SUNNY CONDITIONS



SGG SUPERNOVA UNDER OVERCAST CONDITIONS

