

SGG ENVISION

SGG LUMINA (SKN 165)

HIGH SPECTRAL SELECTIVITY (LIGHT-HEAT RATIO)

OFFERING ADVANCED OCCUPANT THERMAL COMFORT



SGG LUMINA (SKN 165)

SGG Lumina 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 LUMINA 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, 10mm and 12mm on special request.



PROCESSING

To obtain its performance and aesthetics, SGG Lumina must be

- Tempered /Heat Strengthened
- Assembled into an IGU

SGG Lumina 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 Lumina conforms to:**



654 PPM

PURITY KA PERFECT MEASURE.

PRODUCT PERFORMANCE

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

LIGHT FACTORS		
TRANSMISSION (%)	REFLECTION (%)	
	EXTERNAL	INTERNAL
60	16	18

(EN)	ENERGY FACTORS		(EN)
SOLAR FACTOR	SHADING CO-EFFICIENT	U-VALUE	
SHGC / SF	SC	(W/Sq.m K)	
0.34	0.39	1.5	

(NFRC)	ENERGY FACTORS		(NFRC)
SOLAR FACTOR	SHADING CO-EFFICIENT	U-VALUE	
SHGC / SF	SC	(W/Sq.m K)	
0.32	0.36	1.6	

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.

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SGG LUMINA UNDER SUNNY CONDITIONS



SGG LUMINA UNDER OVERCAST CONDITIONS

