

SGG ENVISION

SGG LUMOSA (SKN 744)

HIGH SPECTRAL SELECTIVITY (LIGHT-HEAT RATIO)

OFFERING ADVANCED OCCUPANT THERMAL COMFORT



SGG LUMOSA (SKN 744)

SGG Lumosa 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 LUMOSA 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**
- **Optimum indoor daylighting**
- **Supreme solar control**
- **Blue appearance**



THICKNESSES

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



PROCESSING

To obtain its performance and aesthetics, SGG Lumosa must be

- Tempered /Heat Strengthened
- Assembled into an IGU

SGG Lumosa 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 Lumosa conforms to:**



AGR
Active Glare Reduction

SKN 744, 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 LUMOSA (SKN 744)

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

LIGHT FACTORS

TRANSMISSION (%)	REFLECTION (%)	
	EXTERNAL	INTERNAL
26	11	14

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

(EN) ENERGY FACTORS (EN)

SOLAR FACTOR	SHADING CO-EFFICIENT	U-VALUE
SHGC / SF	SC	(W/Sq.m K)
0.18	0.21	1.6

(NFRC) ENERGY FACTORS (NFRC)

SOLAR FACTOR	SHADING CO-EFFICIENT	U-VALUE
SHGC / SF	SC	(W/Sq.m K)
0.18	0.21	1.6

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

SGG LUMOSA (SKN 744)

SGG LUMOSA UNDER SUNNY CONDITIONS



SGG LUMOSA UNDER OVERCAST CONDITIONS

