

SGG ENVISION

SGG IRIS (SKN 144)

HIGH SPECTRAL SELECTIVITY (LIGHT-HEAT RATIO)

OFFERING ADVANCED OCCUPANT THERMAL COMFORT



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SGG Iris 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 IRIS 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**
- **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 Iris must be

- Tempered /Heat Strengthened
- Assembled into an IGU

SGG Iris 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 Iris 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
41	20	15

(EN)	ENERGY FACTORS		(EN)
SOLAR FACTOR	SHADING CO-EFFICIENT	U-VALUE	
SHGC / SF	SC	(W/Sq.m K)	
0.24	0.27	1.6	

(NFRC)	ENERGY FACTORS		(NFRC)
SOLAR FACTOR	SHADING CO-EFFICIENT	U-VALUE	
SHGC / SF	SC	(W/Sq.m K)	
0.22	0.25	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 IRIS UNDER SUNNY CONDITIONS



SGG IRIS UNDER OVERCAST CONDITIONS

