SGG ENVISION SGG IRIS (SKN 144)

HIGH SPECTRAL SELECTIVITY (LIGHT-HEAT RATIO)
OFFERING ADVANCED OCCUPANT THERMAL COMFORT





sgg IRIS (SKN 144)

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.



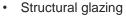
→ PROCESSING

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



- 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:

















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

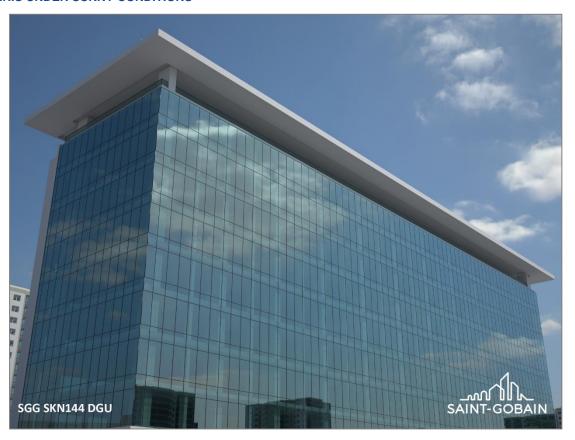
Solar Characteristics as per NFRC 200/300-2010 Thermal Transmittance as per NFRC 100 -2010.

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



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SGG IRIS UNDER SUNNY CONDITIONS



SGG IRIS UNDER OVERCAST CONDITIONS

