SGG ENVISION
SKN 176

HIGH SPECTRAL SELECTIVITY (LIGHT-HEAT RATIO)

OFFERING ADVANCED OCCUPANT THERMAL COMFORT

SAINT-GOBAIN

SGG ENVISION SKN 176

SGG Envision SKN 176 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 Envision 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**
- **Supreme light transmission, achieving highest indoor daylighting levels**
- **Neutral appearance**
- **Subtle reflections**

THICKNESSES

- Standard thicknesses of 4mm, 5mm, 6mm are available
- 8mm, 10mm and 12mm on special request.

PROCESSING

To obtain its performance and aesthetics, SGG Envision SKN 176 must be

- Tempered /Heat Strengthened
- Assembled into an IGU

SKN 176 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 energy efficient glazing requirements with high levels of daylighting

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 Envision SKN 176 conforms to:

654 PPM
PURITY KA PERFECT MEASURE.

PRODUCT PERFORMANCE

SGG Envision SKN 176

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

LIGHT FACTORS		
TRANSMISSION	REFLECTION (%)	
(%)	EXTERNAL	INTERNAL
69	13	15

(EN) ENERGY FACTORS (EN)		
SOLAR FACTOR	SHADING CO-EFFICIENT	U-VALUE
SHGC / SF	SC	(W/Sq.m K)
0.37	0.43	1.5

(NFRC) ENERGY FACTORS (NFRC)		
SOLAR FACTOR	SHADING CO-EFFICIENT	U-VALUE
SHGC / SF	SC	(W/Sq.m K)
0.34	0. 39	1.5

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.

SGG Envision SKN 176

SGG Envision SKN 176 UNDER SUNNY CONDITIONS

SGG Envision SKN 176 UNDER OVERCAST CONDITIONS