

# Cool-Lite® ST

Solar control glass for facade application

## DESCRIPTION

Cool-Lite® ST range is an offline coated glass manufactured by magnetron sputtering deposition under vacuum conditions onto float glass. The manufacturing process and type of materials with which the glass is coated ensure that this coating offers excellent resistance and stability over time.

## TYPICAL APPLICATIONS

The improved durability and post coating processing flexibility makes Cool-Lite® ST the ideal glass for all types of constructions, either for major architectural projects or smaller buildings:

- Commercial office buildings
- Patios and skylights
- Residential

## BENEFITS & FEATURES

- Energy savings on air conditioning
- Thermal comfort for hot climates
- Easy to store, handle and process coated glass
- Can be toughened
- Possible combination with a Low E glass in a double glazed unit for a more efficient thermal insulation
- Can be used as single glass

## VARIATION

Variation	ST 108	ST 120	ST 136	ST 150
Clear float substrate	✓	✓	✓	✓

## LEGISLATION AND STANDARDS

Cool-Lite® complies with SANS 1263: Part 1. When toughened or laminated.

## SIZES & THICKNESSES

Standard thickness: 6mm

Standard size: 3210 x 2250mm

(other sizes available)



# Cool-Lite® SKN 154 II

Combining energy efficiency, neutrality & versatility of processing

## DESCRIPTION

Cool-Lite® SKN 154 II are offline coated glass manufactured by magnetron sputtering deposition under vacuum conditions onto flat glass. The coating is specially designed to selectively reflect near and far infrared wavelengths while allowing visible light transmission.

## TYPICAL APPLICATIONS

Cool-Lite® SKN 154 II is a high selective solar control glass for use in commercial and residential buildings, either for façade glazing or skylight.

## BENEFITS & FEATURES

- Energy savings for all air conditioned buildings, in both cooling and heating modes
- Excellent U-value
- High degree of neutrality in both transmission and reflectance
- Low outside and inside light reflectance
- High light to solar gains ( selectivity )
- Green building rules compliant
- Availability in post-temperable variations enabling a quick turnaround for toughened double glazed units.

## VARIATION

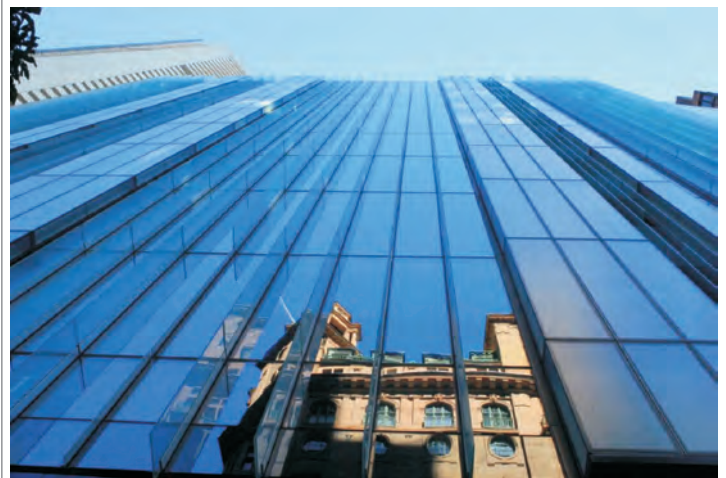
Variation	SKN 154 II
Clear float substrate	✓

## LEGISLATION AND STANDARDS

Cool-Lite® complies with SANS 1263: Part 1.

## SIZES & THICKNESSES

- Standard thickness: 6mm
- Standard size: 3210 x 2250mm  
(other sizes available)



# Cool-Lite® K

## Selective solar control glass

### DESCRIPTION

Cool-Lite® K is a selective solar control glass, manufactured by depositing a coating of metallic oxides by magnetically enhanced cathodic sputtering under vacuum, onto clear or body-tinted glass. This coating gives the glass its solar control and Low-E properties and its distinctive appearance. Cool-Lite® K is designed for use in double glazing applications.

### TYPICAL APPLICATIONS

Thanks to the optimised combination of solar, thermal and light performance, aesthetics and processing flexibility, Cool-Lite® K is the ideal product for many architectural projects such as:

- Office buildings
- Mixed used buildings
- Education buildings
- Health buildings
- Hotels, restaurants

Cool-Lite® K can be installed in many glazing application:

- Windows in traditional façades
- Curtain walling
- Exterior structural sealant glazing

### BENEFITS & FEATURES

- **Selective glass** combining high light transmission and low solar factor / shading coefficient
- **Solar control:** energy savings and more economical use of air conditioning
- Improved **visual comfort** by reducing glare, while keeping natural light

- **Low-E property:** energy savings in both hot and cold climate
- **Environmental friendly products** thank to less CO2 output of buildings

### VARIATION

SSG Cool-Lite	Aesthetics	Light Factors %			Solar Factors		U-Value W/(m <sup>2</sup> .k)	
		LT	LT <sub>c</sub>	LT <sub>t</sub>	g-value	SC	12mm air	16mm argon
KN 153 II	Neutral	46	14	13	0.33	0.38	1.7	1.3
KS 138 II	Silver	35	40	203	0.25	0.29	1.6	1.1

### LEGISLATION AND STANDARDS

Cool-Lite® complies with SANS 1263: Part 1.

### SIZES & THICKNESSES

- Standard thickness: 6mm
- Standard size: 3210 x 2250mm  
(other sizes available)



# Technical Information

(Performance Data)

## Cool-Lite®: Single Glazed

	Visible Light			Solar Energy							Noise
	IGDB	Trans.	Reflect.	Total Elim.	Reflect.	Absorpt.	Direct Trans.	S.H.G.C	Shading Coeff.	U-value (Centre of glass) W/m2.K	S.T.L. (dB)
ST 108 (Low E)	11033	8	44	83	38	56	6	0.17	0.19	3.61	29
ST 120	11034	20	32	67	26	58	16	0.33	0.38	5.24	29
ST 136	11038	37	22	53	16	53	31	0.47	0.54	5.57	29
ST 150	11042	51	18	42	13	42	45	0.58	0.67	5.72	29

## Cool-Lite®: Double Glazed

	Visible Light			Solar Energy							Noise
	IGDB	Trans.	Reflect.	Total Elim.	Reflect.	Absorpt.	Direct Trans.	S.H.G.C	Shading Coeff.	U-value (Centre of glass) W/m2.K	S.T.L. (dB)
+ 12mm air gap + Clear Inner (16017)											
ST 108 (Low E)		7	44	88	38	57	5	0.12	0.14	1.87	32
ST 120		18	32	76	26	60	14	0.24	0.27	2.53	32
ST 136		33	23	64	17	58	25	0.36	0.42	2.63	32
ST 150		46	20	53	15	48	37	0.47	0.54	2.68	32
KN 153 II (Low E)		46	14	66	22	52	26	0.34	0.39	1.71	32
SKN 154 II (Low E)		50	18	74	35	44	21	0.26	0.29	1.61	32

### Note:

The performance data in the above table is calculated in accordance with NFRC 100-2010, and given as an indication only.

Actual values may differ due to manufacturing tolerances.

S.H.G.C. and U-values quoted are "Centre of Glass", and exclude any frame effects. SANS 204 should be consulted for total fenestration values.

Thermal safety warranties are available on application.

Sound Transmission Loss (S.T.L.) values are mean, measured at the centre frequency of the 1/3 octave band, over the frequency range 100 to 5000Hz, centre of glass.

\*IGDB: International Glazing Data Base

\*\*SAGDB: South African Glass Data Base