

COOL-LITE® XTREME



Description

A solar control glass is a glass with a special coating designed to reduce the amount of heat entering a building.. This coating is applied by magnetron sputtering under conditions of vacuum to transparent float glass. It reflects and retains heat as well as filtering light for reduced glare. The use of a sun-powered control glass can diminish the requirements for air-conditioning and blinds.

Application

COOL-LITE XTREME provides extremely selective solar control coatings for use in the commercial and premium building market. Ideally suited for use in façades or glazing overhead in applications involving toughened or heat-treated glass.

- Windows and Facades
- Roofs
- Large glazed bays and skylights

Processing

For optimal efficiency and aesthetics, COOL-LITE XTREME must always be tempered or heat-strengthened into a double-glazed unit before assembly. COOL-LITE XTREME must also be edge-deleted and a double or triple glazed screen should always be located on face 2.

Refers to the processing guidances of each product for more details about the processing conditions or contact the local Technical Support Manager.

PERFORMANCE

The tables below detail the performances of our coatings. Values are given for DGU with clear substrate Planiclear. 3 tables are available :

- DGU 6+12+6 mm with coating on surface #2, according to the standards ISO 9050 m1 / EN 6732
- DGU 6+12+6 mm with coating on surface #2, according to the standards NFRC 100
- DGU 6+16+4 mm with coating on surface #2, according to the standards EN 410, EN 673 and EN ISO 140-3/717-1

Saint-Gobain Glass Glass reserves the right to change product performance features without notice or obligation. Contact your Saint-Gobain sales representative to check the availability of each product in your country.

DGU 6-12-6 / Standards ISO 9050 m1 / EN 6732

PRODUCT	Light Transmittance LT (%)	Solar Factor g	Shading Coefficient SC	Selectivity LT/g	External Light Reflectance LRe (%)	Internal Light Reflectance LRi (%)	U-Value W/(m ² .K) 12mm air	U-Value W/(m ² .K) 16mm argon	Process
COOL-LITE XTREME 70/33 (II)	69	0.32	0.37	2.15	11	12	1.54	1.03	Annealed & to be tempered
COOL-LITE XTREME 60/28 (II)	60	0.28	0.32	2.14	14	16	1.54	1.03	Annealed & to be tempered
COOL-LITE XTREME 50/22 II	46	0.21	0.24	2.19	16	17	1.54	1.03	To be tempered
COOL-LITE XTREME SILVER II	49	0.26	0.29	1.88	30	18	1.5	1.0	To be tempered

DGU 6-12-6 / Standard NFRC 100

PRODUCT	Light Transmittance LT (%)	SHGC	Shading Coefficient SC	Selectivity LT/g	External Light Reflectance LRe (%)	Internal Light Reflectance LRi (%)	U-Value W/(m ² .K) 12mm air	U-Value W/(m ² .K) 16mm argon	Temper
COOL-LITE XTREME 70/33 (II)	69	0.30	0.34	2.30	11	12	1.61	1.39	Annealed & to be tempered
COOL-LITE XTREME 60/28 (II)	60	0.25	0.29	2.40	14	16	1.63	1.41	Annealed & to be tempered
COOL-LITE XTREME 50/22 II	46	0.20	0.23	2.30	16	17	1.60	1.38	To be tempered

PRODUCT	Light Transmittance LT (%)	SHGC	Shading Coefficient SC	Selectivity LT/g	External Light Reflectance LRe (%)	Internal Light Reflectance LRI (%)	U-Value W/(m ² .K) 12mmair	U-Value W/(m ² .K) 16mm argon	Temper
COOL-LITE XTREME SILVER II	49	0.23	0.26	2.13	30	18	1.61	1.39	To be temper

DGU 6-16-4 / Standards ISO 9050 m1 / EN 6732

PRODUCT	Light Transmittance LT (%)	Solar Factor g	Shading Coefficient SC	Selectivity LT/g	External Light Reflectance LRe (%)	Internal Light Reflectance LRI (%)	U-Value W/(m ² .K) 16 mm argon	Processing	Color reflect
COOL-LITE XTREME 70/33 (II)	70	0,33	0,38	2,12	11	13	1,0	Annealed	neutral
COOL-LITE XTREME 60/28 (II)	60	0,28	0,32	2,14	14	17	1,0	Annealed	neutral
COOL-LITE XTREME 50/22 II	47	0,21	0,24	2,24	16	18	1,0	To be tempered	neutral
COOL-LITE XTREME SILVER II	49	0,25	0,29	1,96	30	18	1,0	To be tempered	silver

Documents

- [Doc 1 Thu, 11/14/2019 - 13:00](#)
- [Doc 2 Wed, 09/08/2021 - 14:00](#)

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DIAMANT®

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