

COOL-LITE® XT

Extremely selective solar
control coatings with
reinforced thermal insulation





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COOL-LITE® XTREME is the range of triple silver solar control glass reaching a selectivity greater than 2.0, this means that they provide the highest ratio of daylight profits and solar heat protection while offering neutral aesthetics. The selectivity reflects the ratio of light transmission - as high as possible - to total energy transmittance - as low as possible - ($S = TL/g$). The high light transmission of the glazing creates an extremely bright atmosphere inside the room; the excellent solar factor guarantees maximum comfort.

Reaching a Ug-value of up to 1.5 W/m²K in double glazed units (air), the COOL-LITE® XTREME family is currently the most efficient series of solar control glass from Saint-Gobain.

Several COOL-LITE® XTREME are available in 2 versions, annealed and to-be-tempered to meet all designs and safety and security requirements. To-be-tempered COOL-LITE® XTREME II variants offer higher mechanical and thermal resistance and are delivered with EASYPRO®, Saint-Gobain's temporary protection layer.

1 Aesthetics

The low, external reflection as well as the extremely colour-neutral external appearance creates an excellent combination of function and aesthetics.

COOL-LITE® XTREME provides extremely selective solar control for all types of facades in commercial and high-end residential projects, where a high solar protection is needed without compromise on the daylight income. The reduced levels of indoor and outdoor reflection meet the latest market requests in terms of design and comfort.

2 Reduced energy loads

Offering extremely efficient and optimum solar protection at all times, COOL-LITE® XTREME solar control meets the need to deliver enhanced, sustainable performance to reduce energy consumption and CO₂ emissions.

COOL-LITE® XTREME insulates the interior very well and therefore reduces heating costs (in DGU configuration).

COOL-LITE® XTREME helps reducing the temperature of the room thus the cooling loads, so that the need for air conditioning is minimised.

3 Combinations

COOL-LITE® XTREME can be heat-treated to bring added function.

They can be bended to meet different architectural design.

Main

- Solar control
- Daylight comfort
- Temperature control (Low-E)
- Energy savings
- Neutral aesthetics

Applications

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 overhead glazing.

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

Performance

STANDARD VALUES

COATING	COLOR IN REFLECTION	Light transmission LT %	Reflection outside LRe %	Reflection inside LRi %	Solar factor g-value	Shading coefficient SC	Ug-value W/m2K
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COOL-LITE XT® in DGU 6 mm (Air 12 mm) 6 mm with coating on face # 2 according to the standards EN 410 and EN 673 ¹

COOL-LITE® XTREME 50/22 II	Neutral	47%	16%	18%	0.22	0.25	1.5
COOL-LITE® XTREME 61/29	Neutral	60%	11%	14%	0.30	0.34	1.5
COOL-LITE® XTREME 61/29 II	Neutral	60%	11%	15%	0.30	0.34	1.5
COOL-LITE® XTREME 70/33	Neutral	69%	11%	13%	0.33	0.38	1.5
COOL-LITE® XTREME 70/33 II	Neutral	69%	11%	13%	0.33	0.38	1.5

1. DGU values calculated with PLANILUX® as inner pane

2. For any inquiry related to the processing of these coatings, please contact our TSM (Technical Support Manager) and refer to the processing guidelines

3. Values may differ for toughened (II) and non-toughened coatings with the same glass compositions.

Availability

STANDARD THICKNESSES AND DIMENSIONS

Dimensions: 3210 mm x 2400 mm

Thickness: 4 mm and 6 mm

Other dimensions and thicknesses: Please contact the specification team

Processing

- Available in two versions: Annealed or to be tempered coating (II)
- To be assembled in double glazing only
- Edge deletion mandatory
- Enameling not compatible
- Bending (to-be-tempered version)

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