



COOL-LITE[®] XTREME 70/33 II with BIOCLEAN[®] II

*Highly selective, solar control, coated glass with
self-cleaning technology¹*

COOL-LITE® XTREME 70/33 II with BIOCLEAR® II

Thermally efficient, higher-performance², solar control glass with high light transmission and self-cleaning coating.

This lower-maintenance³, solar control glass achieves a high solar factor (g-Value) of 32% and light transmission of 68%.

The g-value is the percentage of heat that transmits through

the glass. The lower the g-value, the better the glass performs at blocking external heat. Important for large glazed areas, where solar control is crucial for internal comfort.



Other configurations
in our online glazing
Configurator.



BENEFITS

Energy efficiency

By limiting how much solar heat is transmitted through the glass, the need for mechanical cooling is reduced.

Thermal insulation

Solar control glass provides thermal insulation, helping reduce the need for heating in colder weather.

Neutral appearance

COOL-LITE® coatings are suited to large areas of glazing due to their neutral appearance, consistent colour and low reflection (see Calumen.com for product performance data).

Low-maintenance Self-cleaning²

The low-maintenance, self-cleaning coating works with natural elements, such as sun, to break down any external dirt and rain to wash it away.

PROCESSING

In order to achieve its performances and aesthetics, COOL-LITE® XTREME 70/33 with BIOCLEAR® II must be:

- Tempered; compatible with Heat Soak Test⁴
- Edge delete COOL-LITE® XTREME 70/33 side prior to assembly⁵
- Assembled into an insulated glazing unit⁶
- BIOCLEAR® II positioned to face 1 (external pane) and COOL-LITE® XTREME 70/33 to face 2 (inside the DGU)⁷.

RANGE

COOL-LITE® XTREME 70/33 with BIOCLEAR® II (to be toughened) is available on PLANICLEAR® in 4mm thickness and a 3210 x 2550mm dimension.

PERFORMANCE

Ug-Value* (W/m²K)	Light Transmission TL** [%]	Solar Factor (g-Value)** [%]	Outside Reflection** [%]	Inside Reflection** [%]
----------------------	-----------------------------------	---------------------------------	-----------------------------	----------------------------

DGU build-up 4/16/4mm - BIOCLEAR®II on face 1, COOL-LITE® XTREME 70/33 on face 2, 90% Argon, PLANICLEAR® 4mm inner pane

COOL-LITE® XTREME 70/33 with BIOCLEAR II	1.0	68	32	14	15
--	-----	----	----	----	----

*according to EN673 **according to EN410

This document is regularly updated; information in this document is subject to change. Please check with your local sales and specification team. All trademarks are registered trademarks of Saint-Gobain Glass or affiliates, part of Saint-Gobain group.
© Image used under license from iStock.com; Physico-realistic rendering of COOL-LITE® XTREME 70/33 with BIOCLEAR® - displayed colours are intended to represent actual colour but may change according to your screen or the print quality of the document.

1. When independently tested in accordance with EN 1096-5. The coating has been tested in accordance with EN 1096-5, which assesses the durability and performance of coated glass under simulated environmental exposure conditions.
2. Higher-performance, coated, flat glass, achieves an emissivity level of 3% or less. Saint-Gobain Glass' PLANITHERM® and COOL-LITE® products are higher-performing than uncoated, flat glass substrates, based on emissivity level.
3. Glass with the self cleaning coating "Bioclean" is lower maintenance compared with standard glass with no coating.
4. Heat Soak Testing - an additional form of heat-treatment, which is carried out after the thermal toughening process in order to reduce the risk of spontaneous breakage of toughened glass in service.
5. Edge deletion is the process of removing the coating around the perimeter of a glass pane prior to assembly into an IGU, typically done to improve the adhesion and sealing of the IGU.
6. IGU - insulated glazing unit.
7. In a standard double glazed unit (DGU) there are four potential surfaces to which coatings can be applied: surface 1 faces outdoors, surface 2 and surface 3 face each other inside the DGU, separated by a peripheral spacer which creates an insulating air space, and surface 4 faces directly indoors.



SAINT-GOBAIN GLASS

Weeland Road
Eggborough
East Riding of Yorkshire
DN14 0FD UK
saint-gobain-glass.co.uk

