SAINT-GOBAIN

COOL-LITE® XTREME

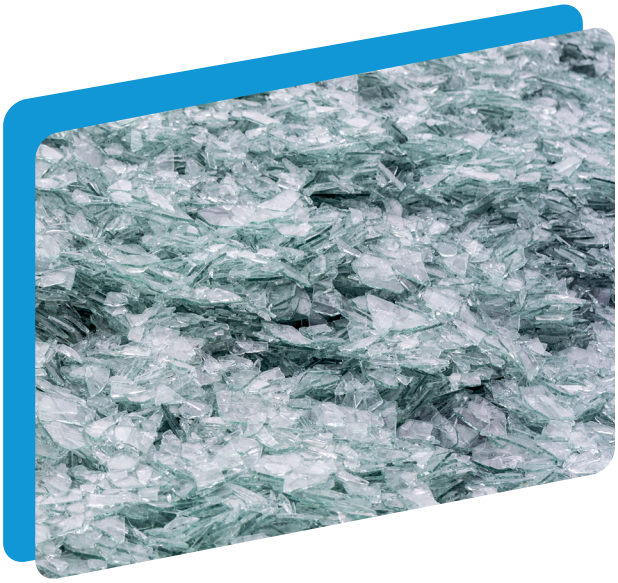
ORAÉ®

Performance meets sustainability

The lowest embodied carbon glass ORAÉ®
combined with the best in class coatings

SAINT-GOBAIN GLASS

COOL-LITE® XTREME ORAÉ



The extremely selective solar control product family **COOL-LITE® XTREME** is now available on **ORAÉ®** substrate, the new low carbon glass of Saint-Gobain Glass.

With ORAÉ®, Saint-Gobain Glass has achieved a landmark technical breakthrough enabling it to offer the first glass with the lowest embodied carbon on the façade market thanks to a substantial R&D effort and the excellence of our industrial teams. This innovation will help to significantly reduce the carbon footprint of construction and accelerate the development of the circular economy.

Intended for use in the glazed parts of a facade, COOL-LITE® XTREME ORAÉ® is a perfect response to the stricter sustainability requirements of the building industry without any compromise on technical or aesthetic performance.

SUSTAINABILITY

COOL-LITE® XTREME ORAÉ® provides the best of both embodied and operational carbon levels, thanks to:

- The glass substrate ORAÉ®, confirmed as the world's lowest embodied carbon glass by a verified Environmental Product Declaration (EPD), produced by combining a very high recycled glass content (cullet) and renewable electricity.
- The excellent energy performances of the COOL-LITE® XTREME coatings, which already drastically reduce carbon emissions generated by energy consumption, when using the building thanks to its high performance in terms of daylight intake, solar control and thermal insulation.

RANGE

COOL-LITE® XTREME ORAÉ® is available in standard sizes and thicknesses (4, 6, 8 and 10mm).

In complementarity to COOL-LITE® XTREME ORAÉ® assembled in double or triple glazing, the uncoated ORAÉ® as well as our low-e PLANITHERM® ORAÉ® and ECLAZ® ORAÉ® are also available for the counter panes.

AESTHETICS

ORAÉ® is offering exactly the **same aesthetics** than the regular clear float glass PLANICLEAR®. Combined with COOL-LITE® XTREME, the low external reflection as well as the extremely colour-neutral external appearance creates an excellent combination of function and aesthetics.

PERFORMANCES

COOL-LITE® XTREME ORAÉ® provides the **same performances and quality** as COOL-LITE® XTREME PLANICLEAR®, with a much lower carbon footprint.

According to its verified EPD, the **ORAÉ®** substrate has a **carbon footprint of only 6.64 kg CO_2 eq./m²** (for a 4mm substrate), bringing a **reduction of 42%** compared to our European standard product PLANICLEAR®.

Coated, processed and assembled in insulated glazing unit, the reduction is then around 30% to 40%.

	Ug-Value [1]	Light Transmission (LT) [2]	Solar Factor (g-value) [2]	Selectivity (LT/g)	Outside reflection (LRe) [2]	Inside reflection (LRi) [2]	Carbon footprint (GWP) [3,4]	Carbon reduction vs. PLANICLEAR® [3,4]
	[W/m2K]	*[%]*	*[%]*	*[%]*	*[%]*	*[%]*	*[kg CO_2 eq/m²]*	*[%]*
Standard build-up double glazing unit (DGU) 6/16/4 mm – coating on face 2, 90% Argon								
COOL-LITE® XTREME 70/33 ORAÉ®	1.0	70	33	2.12	11	13	24	-40%
COOL-LITE® XTREME 70/33 II ORAÉ®	1.0	70	33	2.12	11	13	27	-36%
COOL-LITE® XTREME 61/29 ORAÉ®	1.0	61	29	2.10	11	14	24	-40%
COOL-LITE® XTREME 61/29 II ORAÉ®	1.0	61	29	2.10	11	15	27	-36%
COOL-LITE® XTREME 50/22 II ORAÉ®	1.0	47	21	2.24	16	18	27	-36%

[1] according to EN673

[2] according to EN410

[3] Global Warming Potential (GWP A1-A3 Stages) values with PLANICLEAR® and ORAÉ® are calculations made with Calumen® for each composition of insulated glazing unit (IGU) on the basis of the standard EN 15804+A2. Detailed environmental data are documented in the available Environmental Product Declarations (EPD) of PLANICLEAR® and ORAÉ®. Only complete EPD can be verified by an external third party.

[4] All panes of the DGU with the same substrate; first pane respectively annealed or tempered (II) with the same glass compositions; counter panes always annealed.

GET TO KNOW MORE ON OUR ORAÉ® WEBPAGE

DISCOVER AND TRY CALUMEN®

CHECK OUR EPD OF ORAÉ® (4mm)

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