



COOL-LITE® XTREME ORAÉ®

Performance meets sustainability

The world's first low carbon glass ORAÉ®
combined with the best in class coatings



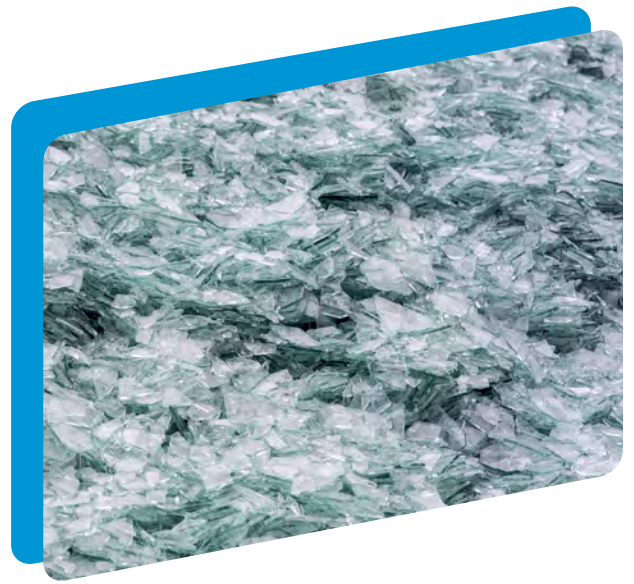
SAINT-GOBAIN GLASS

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 exceptionally low carbon footprint of **ORAÉ®**, produced by combining high recycled glass content (**around 70% of cullet**, of which 55% of external cullet) and renewable energy. As a result, the new product offers the lowest carbon footprint on the market with a reduction of around 40% compared to our regular product.
- 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.

PERFORMANCES

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

The new **ORAÉ®** substrate has an estimated **carbon footprint of only 7 kg CO₂ eq/m²** (for a 4mm substrate), bringing a **reduction of the carbon footprint around 40%** compared to our European standard product **PLANICLEAR®**.

Coated, processed and assembled in insulated glazing unit, the reduction is then around 25% to 30%.

	Ug-Value ¹ [W/m ² K]	Light Transmission (LT) ² [%]	Solar Factor (g-value) ² [%]	Selectivity (LT/g) [%]	Outside reflection (LRe) ² [%]	Inside reflection (LRI) ² [%]	Carbon footprint (GWP) ^{3,5} [kg CO ₂ eq/m ²]	Carbon reduction vs. PLANICLEAR® ^{4,5} [%]
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	27	-31%
COOL-LITE® XTREME 70/33 II ORAÉ®	1.0	70	33	2.12	11	13	34	-26%
COOL-LITE® XTREME 61/29 ORAÉ®	1.0	61	29	2.14	11	14	27	-31%
COOL-LITE® XTREME 61/29 II ORAÉ®	1.0	61	29	2.14	11	15	34	-26%
COOL-LITE® XTREME 50/22 II ORAÉ®	1.0	47	21	2.24	16	18	34	-26%

¹ according to EN673

² according to EN410

³ Global Warming Potential (GWP) A1-A3 Stages: The GWP values with **ORAÉ®**, are estimations based on our Life Cycle Assessment model. Data were collected during the 4 **ORAÉ®** campaigns made in 2022. The detailed environmental data will be documented through third party-verified environmental product declarations – EPDs (or FDES in France) – which are currently under development and scheduled for availability in early 2023. Calculation of GWP with **ORAÉ®** will be available on www.calumenlive.com early 2023, after the publication of the verified EPD.

⁴ Global Warming Potential (GWP A1-A3 Stages) values with **PLANICLEAR®** are calculations made with CalumenLive regarding the composition computed based on the standard EN 15804+A2. Estimations based on the Life Cycle Analysis (LCA) of our products. Only complete Environmental Product Declaration (EPD) can be verified by an external third party. GWP calculations of any glazing configuration with **PLANICLEAR®** can already be made on www.calumenlive.com.

⁵ 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.

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