

BIOCLEAN

EASY TO CLEAN TRANSPARENCY



BUILDING GLASS



SAINT-GOBAIN

BIOCLEAN

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BIOCLEAN is a low-maintenance easy to clean glass manufactured by depositing a transparent layer of photocatalytic and hydrophilic mineral material onto clear glass. The coating, which is integrated into the glass itself, ensures a high level of durability. The mechanical, thermal and acoustic properties of BIOCLEAN are identical to normal glass.

Thanks to BIOCLEAN, the glass stays cleaner for longer, maximising the sun's ultraviolet rays which decompose organic pollutants, and the rain which then flushes them away, naturally. This coating also prevents streaks formed by water drops, making cleaning easier. BIOCLEAN's efficiency remains constant over time, your BIOCLEAN windows maintaining their properties over their whole lifetime.

If a to be tempered product has to be mixed with a product that cannot be tempered, as well as in façade applications in general we recommend prior sampling.

CERTIFICATION

BIOCLEAN meets the requirements of EN 1096-4 related to the durability of coated glass for buildings.

It fulfils this standard's A-Class requirements (coating on surface 1). The coating functionality has been certified by independent tests according to EN 1096-5 standard which qualifies easy to clean glass.

For more technical details, please consult the BIOCLEAN Guideline.

INSTALLATION

When installing the glazing, the following should be considered:

- always install the glass with the coating on the outer side;
- use EPDM-style silicone-free extruded seals to fit the glass tightly into its frame;
- clean the windows well, once installed

The BIOCLEAN function is activated one week after being installed.

MAINTENANCE

BIOCLEAN requires a minimum amount of upkeep to sustainably maintain the windows in their original appearance:

- clean the coating by spraying on soft or demineralized water. For stubborn stains, use hot soapy water and a clean scraper or an ordinary window-cleaning product with a soft and clean cloth;
- never use razor blades, Stanley knives, etc.;
- don't use abrasive or rainproof cleaning products.

BIOCLEAN

Thickness [mm]	3	4	6	8	10
Light transmission TL** [%]	85	85	85	84	83
External reflection** [%]	12	11	11	11	11
Internal reflection** [%]	11	11	11	11	11
Solar factor** [%]	85	84	82	81	80
Energytransmission TE** [%]	83	82	80	78	76
Energyabsorption AE** [%]	7	8	10	12	14

BIOCLEAN II

Thickness [mm]	3	4	6	8	10
Light transmission TL** [%]	88	88	87	86	86
External reflection** [%]	12	11	11	11	11
Internal reflection** [%]	12	11	11	11	11
Solar factor** [%]	86	85	84	82	81
Energytransmission TE** [%]	85	84	82	80	78
Energyabsorption AE** [%]	3	5	7	9	11

Type/Color

Type/Color	Ug-Value* [W/m²K]	Light transmission TL** [%]	Solar factor** [%]	ex. reflection** [%]	in. reflection** [%]
Standard composition CLIMAPLUS 6 16 4 - coating on pos. 2 on PLANICLEAR, 90% Argon					
BIOCLEAN COOL-LITE XTREME 60/28	1,0	56	26	17	18
BIOCLEAN COOL-LITE SKN 176	1,0	66	35	16	17
BIOCLEAN COOL-LITE SKN 165	1,0	57	32	19	19
BIOCLEAN COOL-LITE SKN 154	1,0	49	26	21	23
BIOCLEAN COOL-LITE SKN 145	1,1	39	21	21	16
Standard composition CLIMAPLUS 4 16 4 - coating on pos. 3 on PLANICLEAR, 90% Argon					
BIOCLEAN PLANITHERM XN	1,1	77	59	15	14

*according to EN 673 **according to EN410



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