

SGG BIOCLEAN

Dual- action easy- cleaning glass



DESCRIPTION

SGG BIOCLEAN of the new generation of 2019 is a dual- action easy- cleaning glass manufactured by depositing a transparent coating of hydrophilic and photocatalytic mineral material onto clear glass. This coating is applied offline after the float manufacturing process by means of a magnetron sputtering process, ensuring a high level of effectiveness and quality.

SGG BIOCLEAN harnesses the power of UV rays present in daylight and rain to efficiently combat dirt and grime that accumulates on the outside of windows:

Exposure to UV rays triggers the decomposition of organic dirt and causes the surface of the glass to turn hydrophilic. Rain (or water) forms a sheet of water across the glass and rinses away the broken- down organic dirt and mineral materials.

RANGE

SGG BIOCLEAN can be combined with Low- E and solar control coating

Thickness: 4-6-8-10 mm

Size: jumbo size and split sizes

For other thickness and dimension, please contact us.

(1) Please contact us for more details about the available products.

New product

Easy- cleaning function

SGG BIOCLEAN is designed to combat dirt that is deposited onto the exterior face of the glass:

- dried water marks
- organic atmospheric pollutants
- dust
- sea spray
- insect residues

The performance of the easy- cleaning function can vary depending on the environment and the location of the glass, such as:

- the type of dirt
- the amount of dirt
- total exposure to light and rain
- the incline of the window

Optimum performance is obtained when glazed in a vertical position with maximum exposure to direct sunshine and rain.

During dry spells or in shaded areas, SGG BIOCLEAN still has the ability to keep itself clean more easily than ordinary glazing and may simply require a rinse with clean soft water to help keep windows clean.

SGG BIOCLEAN should never be considered as a glass which requires no maintenance. SGG BIOCLEAN cannot break down large areas of solid, mineral dirt such as cement, paint, varnish, silicones, etc.

NB: to activate the coating, the glass must be exposed to natural light for several days after installation.

Reflected visual appearance

SGG BIOCLEAN has a very similar visual appearance to that of conventional glass, as it has an extremely neutral coating. However, all coated glass, even the most neutral, can have a slightly different appearance when viewed in reflection.

This is a characteristic that is inherent to coated products and is dependent on the distance, the angle of incidence, the ratio between the levels of internal/ external lighting of the building and the type of objects that are reflected on the facade.

Spectrophotometric performance

The spectrophotometric values of a single or double- glazed unit, are very similar, either with or without an SGG BIOCLEAN easy- cleaning coating.

Other properties

The mechanical, thermal and acoustic properties of SGG BIOCLEAN are identical to those of conventional glass.

Some examples:

Product	Light	Solar	External Light	Internal Light	U- Value
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	Transmittance LT (%)	Factor g- value	Reflectance LRe (%)	Reflectance LRi (%)	(EN 673) W/ m²K 16 mm argon
Easy- cleaning glass (DGU 6+16+6)					
SGG BIOCLEAR ¹ + PLANITHERM XN ³	77	0,62	14	14	1,1
SGG SECURIT BIOCLEAR II ¹ + SECURIT PLANITHERM XN II ³	79	0,63	15	14	1,1
SGG BIOCLEAR ¹ + ECLAZ ²	78	0,67	14	14	1,1
SGG SECURIT BIOCLEAR II ¹ + SECURIT ECLAZ II ²	80	0,69	15	14	1,1
SGG BIOCLEAR ¹ COOL- LITE SKN 176 ² + PLANICLEAR	66	0,35	16	17	1,0
SGG BIOCLEAR ¹ COOL- LITE XTREME 60/28 ² + PLANICLEAR	57	0,26	17	18	1,0

Index numbers 1,2,3 indicate coating's position on the different glass surfaces.

PROCESSING CAPABILITIES

SGG BIOCLEAR can be easily processed to combine several functions and be integrated into:
double- and triple- glazed units

SGG STADIP SILENCE acoustic laminated glass, or SGG STADIP or SGG STADIP PROTECT safety glass.

SGG BIOCLEAR can also be toughened, heat- strengthened, heat- soak tested, curved or enamelled (enamel applied to the non- coated side).

PRODUCT APPLICATION

SGG BIOCLEAR has been designed for external use, either in the home or commercial buildings, both for new- build and refurbishment projects, including:

Windows and external doors
Skylights, overhead and atria glazing
Conservatories, roofs and patio doors
Glazed façades
External shopfronts
Display windows
Street furniture

SGG BIOCLEAR is the ideal cleaning solution for external glazing that is exposed to light and rain.

SGG BIOCLEAR can be used in all environments and is particularly effective:

In an urban environment
In the countryside
In seafront locations
In heavily polluted areas (e.g. areas close to heavy traffic, nearby airports, railway lines or industrial estates)

ADVANTAGE

The most neutral easy- cleaning glass available - no unsightly tint, haze or reflective surface. Looks just like normal glass!

Less frequent cleaning – windows stay cleaner for longer.

Much easier cleaning - less dirt and grime adheres to the glass.

Save money - the cost of window cleaning is reduced.

Ideal for hard to reach areas - clean where you have never been able to clean before!

Permanent coating - lasts the lifetime of the window.

Environmentally friendly - less frequent use of water and detergents.

Also available with an advanced performance solar control coating.

[BIOCLEAR datasheet](#) [BIOCLEAR brochure](#)