

SGG BIOCLEAN®

Dual- action self- cleaning glass



DESCRIPTION

SGG BIOCLEAN is a low- maintenance self- cleaning 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 SGG BIOCLEAN are identical to normal glass.

PERFORMANCE

SGG BIOCLEAN meets the requirements of standard EN 1096 relating to the durability of coated glass in buildings. SGG BIOCLEAN conforms to Class A of this standard (for coating on face 1).

Self- 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 self- 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 – a minimum of 15° from the horizontal is recommended.

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 clean itself 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.

Double Glazing Performance

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

Other properties

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

PROCESSING CAPABILITIES

Avoid all contact between the glass and pointed or sharp objects. Avoid all direct contact with silicone (sealants, sprays, suckers, gloves). Always position the coated face towards the outside of the sealed unit and laminated glass. Separate stock or processed glass with non- adhesive transit pads.

PRODUCT APPLICATION

SGG BIOCLEAN self- cleaning glass will revolutionise the way you clean your windows. It has been designed for external use, either in the home or commercial buildings, both new build and refurbishment projects including:

- Windows and patio doors

- Conservatories, balconies and overhead glazing

- Glazed façades, exterior shopfronts and display windows, overhead and atria glazing, street furniture

- Hard to reach areas

SGG BIOCLEAN can be used in all environments and is particularly effective in heavily polluted areas (e.g. near industrial estates and airports). It must be installed vertically or in an inclined position.

SGG BIOCLEAN is the ideal cleaning solution for external glazing that is exposed to light and rain. SGG BIOCLEAN can be used in all environments and is particularly effective:

- in conservatory roofs
- 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).

ADVANTAGES

The most neutral self-cleaning glass available - no unsightly tint 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.

Now available with an advanced performance solar control coating.

[BIOCLEAR Installation Guidelines](#) [BIOCLEAR End-User Maintenance Guidelines](#) [Compatible Products for use with BIOCLEAR](#)