

SGG CLIMAPLUS[®] SCREEN

Double-glazed units with integral blinds

Technical Sheet
United Kingdom

SGG CLIMAPLUS[®] SCREEN

Double-glazed units with integral blinds

Description

SGG CLIMALIT SCREEN and SGG CLIMAPLUS SCREEN are double glazed units with integral blinds, giving vision control and/or solar control in combination with thermal or enhanced thermal insulation. The blinds are fully protected in the sealed cavity of the double-glazed unit. The blinds can be raised and lowered, and with some variations they can be orientated in to any desired position.

Applications

These systems can be used in both residential and non-residential buildings, in windows, conservatories, façades and internal partitions. The pleated version can also be used in a vertical or inclined position (overhead glazing)

Avantages

Solar control

The improved thermal and acoustic properties of the sealed units are enhanced by the solar control element of the blinds, which can be used to regulate the amount of heat from the sun that enters the building.

Improved thermal insulation

When the blinds are lowered and closed, the thermal insulation is increased, keeping the building or room warmer and reducing cold spots near to the glazing.

Vision and light control in seconds

The blinds can be used to adjust levels of vision, creating intimacy or privacy within a private or working environment in seconds. Light levels can be easily adjusted by shading solar rays or re-directing the light that is entering the room.

Advantages .../...

Cleaning and maintenance savings

The blinds within the sealed units are completely protected and require no cleaning or maintenance - they remain dirt and dust free. The system is very hygienic, making it particularly suitable for use in hospitals or laboratories. Cleaning of the glass is not inhibited by external blinds.

Stylish Design

With a variety of styles and colour options to choose from the blinds can bring life into any new-build, fit-out or redevelopment project.

Range

Domestic range

The blinds are available in two different forms: either a continuous pleated blind in white or cream or a venetian slatted blind available in white, cream or silver. External controls, either manual or motorised, allow movement of the blinds within the double glazed unit. The cavity width is 20mm with the internal pane of glass (the control side) having a thickness of 4mm.

Commercial range

The commercial range incorporates integral aluminium venetian blinds in two width options: 12.5mm slats for use in a 20mm cavity or 16mm slats for use in a 27mm cavity. Both slat widths are available in 9 UV stable colours.

The external controls can be either manual or motorised. In the case of motorised control, the motor is selected according to the dimensions of the glass and runs off a 24 Volt AC power supply. A cordless remote control device is an option. Blinds can be raised or lowered only. In overhead applications, two motors are necessary.

In the case of manual control, the blinds are operated by means of external cord-operated magnets, which allow the blinds to be raised, lowered and tilted. Alternatives are available for tilting only.

Composition of the double-glazed units

The blinds can be integrated into a double-glazed unit and combined with:

- A low-emissivity glass from the SGG PLANITHERM range (please contact SAINT-GOBAIN GLASS for details).
- SGG STADIP SILENCE acoustically laminated glass to improve the acoustic insulation.
- SGG SECURIT toughened safety glass or SGG STADIP laminated safety glass.
- SGG COOL-LITE solar control glass products.

Please contact SAINT-GOBAIN GLASS for details.

- SGG BIOCLEAN self-cleaning glass.

In overhead glazing applications, the inner pane should always be SGG STADIP laminated glass, which in this application cannot be coated. Any coatings must therefore be applied to the outer pane.

Double-glazing SGG CLIMAPLUS SCREEN (DOMESTIC) : manufacturing sizes

	Width (mm)	Height (mm)	Total surface area
Minimum dimensions	300*	300*	Not exceeding 2.2m ²
Maximum dimensions	1100*	2500*	Not exceeding 2.2m ²

* Due to the highly technical nature of these products, it is recommended that all SGG CLIMAPLUS SCREEN sizes, glass thicknesses, control methods and electrical connections (where applicable) are checked by Saint Gobain Glass.

Double-glazing SGG CLIMAPLUS SCREEN (COMMERCIAL) : manufacturing sizes

Type of blind adjustment	Width (mm)		Height (mm)		Total surface area
	Min	Max	Min	Max	
Manual: tilt only	300*	3000*	100*	3500*	Not exceeding 7.0m ²
Manual: tilt, raise and lower	300*	3000*	100*	3500*	Not exceeding 4.5m ²
Electrical : tilt only	400*	3000*	300*	3000*	Not exceeding 5.25m ²
Electrical : tilt, raise and lower	480*	CHECK*	300*	CHECK*	Not exceeding 5.25m ²

* Due to the highly technical nature of these products, it is recommended that all SGG CLIMAPLUS SCREEN sizes, glass thicknesses, control methods and electrical connections (where applicable) are checked by Saint Gobain Glass.
All min. / max. size information above relates to Venetian Blind Systems only.
Different size limitations apply for Pleated or Roller Blind Systems.

Installation Guidelines

- The frame must be designed to take the necessary width of the double-glazed unit.
- The profiles that are used must be suitable so that cables can be integrated for the electric power supply.
- The installer must use an electrician for the 220 volt wiring.
- The control mechanism must also be considered within the glazing system.



Private residence