

SGG VISION-LITE[®]

Anti-reflective glass

"Clearly better without reflection!"



SGG VISION-LITE®

Glazing with minimum reflection!

Applications

SGG VISION-LITE is ideal for all applications that require maximum transparency and unimpaired vision through the glass.

- External:
 - Shop fronts and showrooms;
 - Glazed areas in panoramic restaurants;
 - Control towers, control rooms and observation rooms;
 - Screens to separate spectators in terraced stadiums.
- Internal:
 - Display cabinets in museums and protective screens for paintings;
 - Display units and shop fronts;
 - Internal partitions (hospitals, clean rooms, control rooms, etc.);
 - Television studios (no reflections in front of the cameras);
 - Interpreter booths and sound booths (conference rooms, recording studios, etc.);
 - Zoos and aquariums.
- Other applications:
 - Machine control rooms on building sites (cranes, tractors, etc);
 - Protective screens for cash dispensers;
 - Signage or advertising panels for railways, motorways and airports, etc.



Breuer, Brussels, Belgium

Benefits

- Optimum vision: very high transparency levels and very low residual reflectance (approximately 10 times less reflection than conventional glass) for improved visibility.
- Clarity of objects: better contrast and colour rendering.
- Large sizes: available in large dimensions for shop fronts or showroom windows.

- Safety: SGG VISION-LITE is available as SGG STADIP PROTECT laminated safety glass for enhanced security.
- Cost savings: the excellent transparency and low light reflection of SGG VISION-LITE may avoid the need for a sunshade and reduce the running cost of artificial interior lighting.

Description

SGG VISION-LITE anti-reflective coated glass has the property of significantly reducing the reflection of light on the surface of the glass. To achieve the anti-reflective effect, the glass must be coated on both faces.

SGG VISION-LITE coated glass is obtained by magnetically enhanced cathodic sputtering under vacuum conditions, by applying transparent coatings of metallic oxide to the glass.

Range

- SGG VISION-LITE is available in SGG STADIP PROTECT laminated glazing, produced from SGG DIAMANT extra-clear glass.
- Semi VISION-LITE is the monolithic glass used for the production of SGG VISION-

LITE. It is an extra-clear glass with an anti-reflective coating on one side. SGG VISION-LITE is manufactured by laminating two pieces of semi VISION-LITE together. Certification of the laminating site is required.

	Composition	Base glass	Dimensions
		SGG DIAMANT Extra-clear glass	
Laminated SGG VISION-LITE	44.2 - 66.2 - 88.2 - 1010.2 ⁽¹⁾	x	Jumbo size: 6000 x 3210 mm cut size on request
Semi VISION-LITE	4mm - 6mm - 8mm - 10mm	x	Split size: 2000 x 3210 mm Jumbo size: 6000 x 3210 mm

(1) Other compositions on request.
The maximum dimensions of the finished product depend on the technical possibilities of the processing site.

Processing and installation

The best performance of SGG VISION-LITE is obtained with monolithic laminated glass. In addition to antireflection, it is possible to fulfill various functions:

- safety & security: SGG STADIP PROTECT laminated glass,
- acoustic insulation : SGG STADIP SILENCE, acoustic laminated glass.

SGG VISION-LITE can also be assembled into double-glazed units consisting of 2 sheets of laminated SGG VISION-LITE glass; in this case, all four faces are treated with the anti-reflective coating. For energy saving needs, one inner surface can be replaced by another coating (SGG PLANITHERM, SGG COOL-LITE, ...). In this case, the visual aspect should be validated by the customer.

SGG VISION-LITE is a coated glass which is treated on both sides. It must be processed and installed in accordance with specific instructions.

- SGG VISION-LITE coated glass cannot be heat-treated, i.e. tempered or heat-strengthened.

- For roof applications, it is not recommended to position the coating facing towards the outside (face 1).

- For horizontal interior applications (museum display cabinets, shelves, tables etc), precautions must be taken to avoid frequent and excessive finger marks and the risk of scratching.

Please refer to the documents entitled "SGG VISION-LITE Instructions for use" and "SGG VISION-LITE, Assembly, installation and maintenance".



Zaventem Airport, Brussels, Belgium



Nou Camp Stadium, Barcelona, Spain



"Het Kruithuis" museum, 's-Hertogenbosch, Netherlands



Levi's shop, Forum des Halles, Paris, France

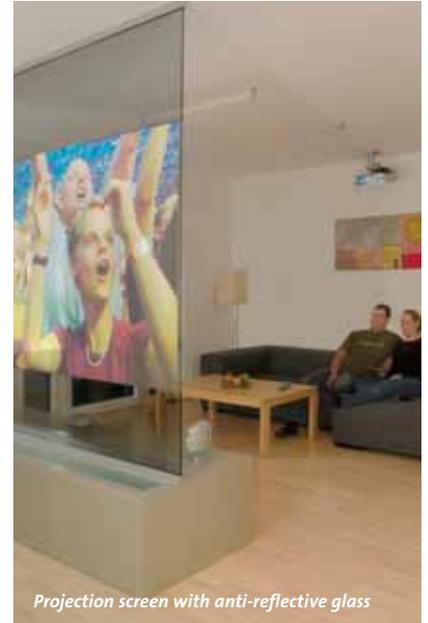
Performance

Comparison of performance of clear float conventional glass with SGG VISION-LITE anti-reflective glass:

		Light transmittance TL %	Light reflectance RL %
clear float	44.2	87	8
SGG VISION-LITE*		96	1
clear float	66.2	85	8
SGG VISION-LITE*		96	1
clear float	88.2	83	8
SGG VISION-LITE*		95	1
clear float	1010.2	83	8
SGG VISION-LITE*		95	1

* On SGG DIAMANT glass
Average values given in accordance with international standards. The reflectance values are measured perpendicular to the glazing. As with conventional glass, the reflection increases when the glass is viewed from an angle.

SGG VISION-LITE meets the durability requirements of Class A of European standard EN 1096.



Projection screen with anti-reflective glass

Important

The residual reflectance of SGG VISION-LITE anti-reflective glass is very low (approximately 1% for laminated monolithic glass). It is however still visible under certain lighting conditions, viewing angles and in certain surrounding environments.

The residual reflectance depends on the angle from which it is viewed. Perpendicular to the glass, it is slightly bluish and can vary slightly. For external applications (eg: shop windows), it is strongly recommended that a sample is viewed at the intended location.


SAINT-GOBAIN
GLASS

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Dispenser