

SGG VISION-LITE®

Anti-reflective glass

"Clearly better without reflection!"

SGG VISION-LITE®

Glazing with minimum reflection

Description

SGG VISION-LITE anti-reflective coated glass significantly reduces 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 is manufactured by magnetically enhanced cathodic sputtering under vacuum conditions, applying a transparent coating of metallic oxide to the glass surface.

Applications

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

- External:
 - Shop fronts and show rooms;
 - 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 (less reflection 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.



Advantages

Optimum vision: very high transparency levels and very low residual reflectance (approximately 8 times less reflection than conventional glass) for improved visibility.

Clarity of objects: better contrast and colour rendering.

UV reduction: SGG VISION-LITE blocks out over 99% of the sun's UV rays, reducing the discolouration of items exposed to direct sunlight.

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 blinds and help reduce the requirement for and cost of artificial interior lighting.

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.

	Composition	Base glass	Dimensions ⁽²⁾	
		SGG DIAMANT Extra-clear glass	Length (mm)	Width (mm)
Laminated SGG VISION-LITE	8.8 - 12.8 - 16.8 - 20.8 ⁽¹⁾	x	6000	3210
Semi VISION-LITE	4mm - 6mm - 8mm - 10mm	x	6000	3210

(1) Other compositions on request.

(2) These dimensions are those of the base glass.

The maximum dimensions of the finished product depend on the technical capabilities of the processing site.



Zaventem Airport, Brussels, Belgium

Processing and installation

SGG VISION-LITE can fulfil various functions;

- safety: SGG STADIP PROTECT laminated glass.
- Noise reduction using SGG STADIP SILENCE acoustic laminated glass.
- SGG VISION-LITE can also be assembled into double-glazed units consisting of two sheets of laminated SGG VISION-LITE glass; in this case, all four faces are treated with the anti-reflective coating. For enhanced thermal insulation properties the inner sheet of the inner laminated pane can be replaced with a low-emissivity coated glass such as SGG PLANITHERM.

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. toughened or heat-strengthened.
- For roof applications, it is not recommended to position the anti-reflective 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".



Nou Camp Stadium, Barcelona, Spain

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



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

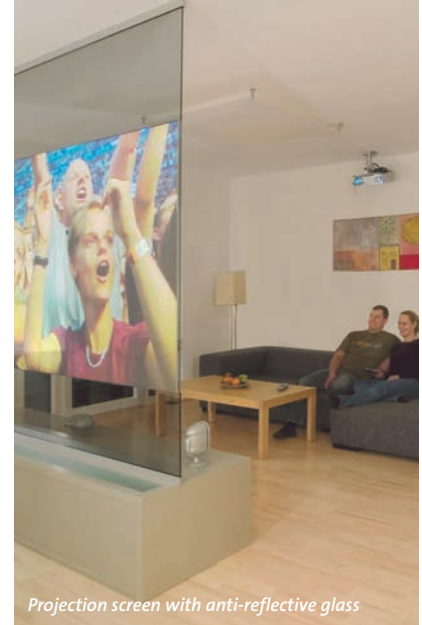
Performance

Performance comparison between
 sGG PLANILUX conventional glass and
 sGG VISION-LITE anti-reflective glass.

		Light transmittance LT %	Light reflectance LRe %
sGG PLANILUX	8.8	87	8
sGG VISION-LITE*		96	1
sGG PLANILUX	12.8	85	8
sGG VISION-LITE*		96	1
sGG PLANILUX	16.8	83	8
sGG VISION-LITE*		95	1
sGG PLANILUX	20.8	83	8
sGG VISION-LITE*		95	1

* On sGG DIAMANT glass
 Values given in accordance with standard EN410.
 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 EN1096.



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 fronts), it is strongly recommended that a sample is viewed in the intended location.

Distributor



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