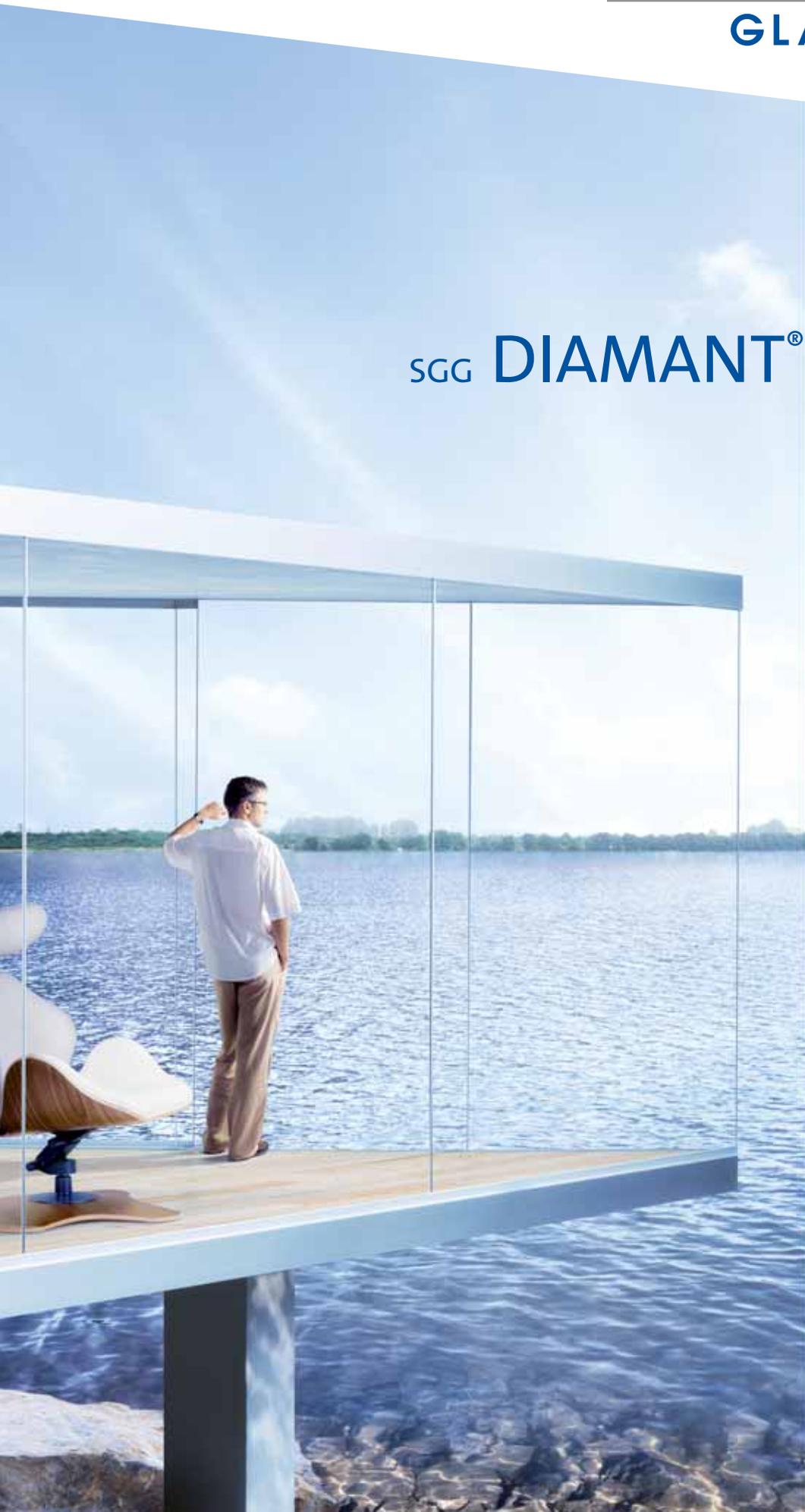


SGG **DIAMANT[®]** *Extra clear glass*



SGG DIAMANT[®]

As far as the eye can see

Excellent transparency: due to its exceptional neutrality, SGG DIAMANT[®] offers the highest level of light transmittance possible, so important for large and thick glass structures!

Pure natural light can enter in the interior of the building. SGG DIAMANT[®] allows the true colour rendering of objects and decoration, in museums, show-rooms and shop-window displays! It is the only clear glass which allows a natural and true reproduction of white and pastel colours, when enamelling or screen-printing is concerned!

High level of energy transmittance: this is a strong benefit of SGG DIAMANT[®], for maximizing solar heat gains into a building and for applications involving the use of solar energy!

Large dimensions and wide range of thicknesses are available, including 15 and 19 mm, enabling SGG DIAMANT[®] to be used in large glazing areas, glass structures and furniture!

Description



Glass, clearer than clear

SGG DIAMANT® is a unique colorless (“extra clear”) float glass with very low iron oxide content. Consequently the glass has a high level of light and energy transmittance, is significantly less green in appearance and exhibits white edges when compared to ordinary float glass.

SGG DIAMANT® is manufactured in accordance with EN 572-2 and carries the relevant CE mark.

Applications



A wide range of applications

SGG DIAMANT® is suited for many applications where the primary requirements are aesthetics, transparency and optical clarity.

Facades: The use of SGG DIAMANT® in structural glazing emphasises the transparency and lightness of the facade. It can be used in bolted glass structures, and be coated with a high performance coating for energy efficiency.

Interior design and decoration:

SGG DIAMANT® is an excellent glass substrate for white and pastel-coloured screen-printed or enamelled glass used for applications like partitions, doors, floors, shower cabins, screens in banks. In such applications, colour is not altered when it is viewed through the glass.

Furniture: The use of SGG DIAMANT® is particularly stunning in table tops, office desks or shop counters requiring thick glass. Brilliant, white edges make the difference compared to ordinary float glass.

Shop windows and display cabinets:

SGG DIAMANT® can be used to produce a laminated safety glass with very little colour alteration, even in extreme thickness. It is also the base glass of the non reflective glazing SGG VISION-LITE®, which allows valuable objects to be displayed securely viewed in their true colours.

Solar energy: In the fast growing sector of solar energy, SGG DIAMANT® is used as a protective panel of photovoltaic elements into solar modules and as a substrate for mirrors in concentrating solar plants.

Special applications: Thanks to its higher level of UV transmittance compared to that of ordinary clear float glass, SGG DIAMANT® is perfectly suited for applications requiring this property, for example in photocopiers, glass casing for medical measuring equipments, horticulture, in zoo and aquaria partitions.



Transformation possibilities at a glance

SGG DIAMANT® can be used as the base product for a wide range of processed glasses:

- Laminated safety glass SGG STADIP® or SGG STADIP PROTECT®, which is also available in the anti-reflective version SGG VISION-LITE®. Due to its higher light transmittance and reduced green-tinge, SGG DIAMANT® is particularly suitable for extra thick laminated products, affording a high level of transparency
- Monolithic tempered safety glass SGG SECURIT®, heat-strengthened glass SGG PLANIDUR®, as well as high performance safety glass SGG SECURIPPOINT® used for structural glazing systems
- Screen-printed safety glass SGG SERALIT®
- Enamelled glass, like SGG EMALIT® CLASSIC EXTRA WHITE
- Lacquered glass, like SGG PLANILAQUE® EVOLUTION, a versatile glass for interior applications: a completely homogeneous product with the shine and depth of lacquer, combined with easy to process, high durability and low-maintenance properties





Gelsenwasser AG, Gelsenkirchen

Main features

- Glass suitable for both exterior and interior applications, where a high transparency, colour neutrality and aesthetics are needed
- Ideal glass for applications requiring high level of energy and UV transmission
- Very high quality float glass produced on the basis of strictest specifications
- Processing is identical to that of ordinary float glass
- Mechanical and acoustic properties are identical to those of clear float glass
- Available in the range of thickness of 3 - 19 mm and sizes up to jumbo size (3210 mm x 6000 mm)

Performance data

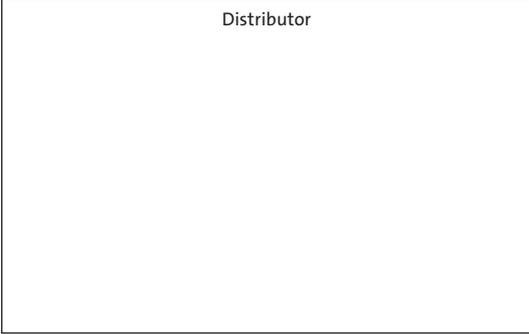
		SGG DIAMANT®								
Thickness	mm	3	4	5	6	8	10	12	15	19
Weight	kg/m ²	7,5	10	12,5	15	20	25	30	37,5	47,5
Visible light factors										
Transmittance TL	%	91	91	91	91	91	90	90	90	89
External reflectance RLe	%	8	8	8	8	8	8	8	8	8
Internal reflectance RLi	%	8	8	8	8	8	8	8	8	8
Ultraviolet										
Tuv	%	86	85	83	82	80	78	76	73	70
Solar energy factors										
Transmittance T	%	90	90	89	89	88	87	86	85	83
External reflectance REe	%	8	8	8	8	8	8	8	8	8
Absorbance A	%	2	2	3	3	4	5	6	7	9
Thermal properties										
Solar factor gEN 410		0.91	0.90	0.90	0.90	0.89	0.88	0.88	0.87	0.86
Shading coefficient SC ISO 9050 MI		1.04	1.04	1.03	1.03	1.02	1.01	1.00	0.99	0.98



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