

## Data Sheet for Diamant Glass (Extra Clear Low Iron Glass)

### What is Diamant?

Diamant is a highly transparent extra clear glass, which has very little residual colour. It has a unique appearance and very specific optical qualities. It is a float glass, but its very low iron oxide content gives it optimum clarity.

### What are the benefits of Diamant?

Diamant has the following advantages when compared to ordinary clear float glass.

- Excellent transparency – its light transmittance is greater than that of conventional glass.
- High neutrality in transmittance – optimised colour rendering and contrast. The colours of objects remain vivid and natural. This is very important in applications such as museum display cases.
- Virtually colourless – more noticeable when comparing thicker glass, diamant does not have the green tinge that ordinary float does.
- Highly energy efficient – due to its low iron oxide content, it does not conduct energy as readily as normal clear float glass.



SGG DIAMANT®											
Thickness	mm	3	4	5	6		8	10	12	15	19
Weight	kg/m <sup>2</sup>	7,5	10	12,5	15		20	25	30	37,5	47,5
Light factor											
LT	%	91	91	91	91		91	90	90	90	89
LRe	%	8	8	8	8		8	8	8	8	8
LRi	%	8	8	8	8		8	8	8	8	8
UV	%	86	85	83	82		80	78	76	73	70
Energy factor											
T	%	90	90	89	89		88	87	86	85	83
Re	%	8	8	8	8		8	8	8	8	8
Ri	%	8	8	8	8		8	8	8	8	8
A	%	2	2	3	3		4	5	6	7	9
Solar factor g		0,91	0,90	0,90	0,90		0,89	0,88	0,88	0,87	0,86
Shading Coefficient		1,04	1,04	1,04	1,3		1,02	1,02	1,01	1,00	0,99
U-value	W/(m <sup>2</sup> .K)	5,8	5,8	5,8	5,7		5,7	5,6	5,5	5,5	5,3

### How is visual quality assessed?

The visual quality of a window is assessed by looking through it from the room side, at right angles to the glass, standing at a distance of not less than 3 metres from the glass, under natural daylight and not direct sunlight. Provided your vision is not impeded under these conditions; for example, by scratches, bubbles, or distortion of external objects; your windows are of good visual quality.