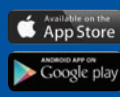


Configuration of Unit*	Frequency						Rw (C;Ctr)	Rw	Ra	Ra,tr
	125	250	500	1000	2000	4000				
6mm / 16mm / 6mm	22	22	30	38	34	38	33 (-1;-4)	33	32	29
6mm / 16mm / 6.4mm	24	23	35	44	37	49	37 (-2;-5)	37	35	32
6mm / 16mm / 6.8mm SS	23	25	36	46	49	56	39 (-2;-6)	39	37	33
10mm / 16mm / 8.8mm	27	32	42	43	37	51	38 (-1;-4)	38	37	34
10mm / 12mm / 10.8mm	28	35	43	47	44	55	43 (-2;-6)	43	41	37
10mm / 16mm / 12.8mm	23	36	43	37	41	53	40 (-2;-6)	40	38	34
6mm / 16mm / 8.8mm SS	21	27	39	50	45	50	39 (-2;-6)	39	37	33
6mm / 12mm / 9.5mm SS	24	27	37	42	36	45	37 (-3;-6)	37	34	31
8mm / 15mm / 8.8mm SS	25	30	41	49	44	52	42 (-3;-8)	42	39	34
8mm / 16mm / 10.8mm SS	26	31	42	49	42	55	42 (-3;-7)	42	39	35
8mm / 20mm / 12.8mm SS	24	34	44	49	43	58	44 (-2;-7)	44	42	37
10mm / 15mm / 8.8mm SS	23	35	42	48	47	55	44 (-3;-7)	44	41	37
10mm / 16mm / 12.4mm SS	26	39	44	46	45	60	44 (-2;-5)	44	42	39
12mm / 15mm / 8.8mm SS	28	35	43	48	49	56	45 (-2;-6)	45	43	39
12mm / 20mm / 12.8mm SS	34	40	48	47	48	63	48 (-1;-4)	48	47	44
10.8mm SS / 24mm / 14.8mm SS	34	43	51	54	57	72	53 (-2;-7)	53	51	46

\*SS denotes use of sgg STADIP SILENCE® acoustic laminate interlayer.  
All acoustic performances are tested and certified in accordance with € marking. Acoustic test reports can be requested through Saint-Gobain Glass.

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## SAINT-GOBAIN GLASS UK LTD GLOSSARY OF TERMS

### Light Transmittance (LT)

The proportion of the visible spectrum that is transmitted through the glass.

### U-value

This is a measure of the rate of heat loss of a building component. It is expressed as Watts per square metre, per degree Kelvin, W/m²K.

### Shading Coefficient (SC)

The solar factor (total transmittance) of a glass relative to that of 3mm clear float glass (0.87) and is used as a performance comparison. The lower the shading coefficient number, the lower the amount of solar heat transmitted.

### Light Reflectance (LRe)

The proportion of the visible spectrum that is reflected by the glass.

### Solar Factor (g)

The percentage of total solar radiant heat energy transmitted through glazing (the sum of energy transmitted directly and energy absorbed and re-emitted to the interior).

### Weighted Noise Reduction (Rw)

A single figure rating for the sound insulation of building elements. Includes a weighting for the human ear and measures actual sound transmittance.

All products listed in this booklet are available through Saint-Gobain Glass UK, subject to availability.

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High Performance  
Solar Control Glass



## SGG COOL-LITE® RANGE

Sealed Unit Configuration (6-16-4)		Visible Light		Energy Factors			Solar Factor	Shading Coefficient	U-value		Normal Internal Emissivity (Single Outer Pane)
Outer Pane	Inner Pane	Total Light Transmission %	External Reflection %	Direct Transmission %	External Reflection %	Absorption %	g	SC	Air W/m²K	Argon (90%) W/m²K	
SGG COOL-LITE XTREME 70/33 II	SGG PLANICLEAR	70	11	31	37	32	0.33	0.38	1.3	1.0	0.01
SGG COOL-LITE XTREME 60/28 II	SGG PLANICLEAR	61	14	26	43	31	0.28	0.32	1.3	1.0	0.01
SGG COOL-LITE SKN 176 II	SGG PLANICLEAR	70	14	35	34	31	0.37	0.43	1.3	1.0	0.01
SGG COOL-LITE SKN 174 II	SGG PLANICLEAR	69	11	39	30	31	0.41	0.47	1.4	1.1	0.03
SGG COOL-LITE SKN 174	SGG PLANICLEAR	69	11	39	31	30	0.41	0.47	1.4	1.1	0.03
SGG COOL-LITE SKN 165 II	SGG PLANICLEAR	61	16	32	34	35	0.34	0.39	1.3	1.0	0.01
SGG COOL-LITE SKN 165	SGG PLANICLEAR	61	16	32	37	31	0.34	0.39	1.3	1.0	0.01
SGG COOL-LITE SKN 154 II	SGG PLANICLEAR	52	18	26	30	45	0.28	0.33	1.3	1.0	0.01
SGG COOL-LITE SKN 154	SGG PLANICLEAR	52	19	26	37	37	0.28	0.32	1.3	1.0	0.01
SGG COOL-LITE SKN 144 II	SGG PLANICLEAR	41	20	20	31	49	0.23	0.26	1.4	1.1	0.03
SGG COOL-LITE ST 150	SGG PLANITHERM ULTRA N II	45	18	32	23	46	0.37	0.42	1.4	1.1	0.86
SGG COOL-LITE ST 150	SGG PLANITHERM ONE T	41	22	27	26	47	0.32	0.36	1.3	1.0	0.86

- **SGG COOL-LITE® XTREME** is a range of extremely selective solar control glazing for the commercial market. The low solar factor and high light transmittance make it the ideal product for specifiers looking to achieve the best solar heat reduction.
- **SGG COOL-LITE® SKN** is a range of solar control glazing options for use in residential and commercial buildings. The range is designed to balance high performance solar control with neutral aesthetics to create light comfortable interiors.
- **SGG COOL-LITE® ST** is a solar control glass which can be curved, enamelled or screen-printed to give greater architectural and technical flexibility.

## SGG SOLAR CONTROL RANGE

Sealed Unit Configuration (6-16-6)		Visible Light		Energy Factors			Solar Factor	Shading Coefficient	U-value		Normal Internal Emissivity (Single Inner Pane)
Outer Pane	Inner Pane	Total Light Transmission %	External Reflection %	Direct Transmission %	External Reflection %	Absorption %	g	SC	Air W/m²K	Argon (90%) W/m²K	
SGG PARSOL GREY	SGG PLANITHERM ONE T	33	8	23	14	63	0.30	0.34	1.3	1.0	0.01
SGG PARSOL GREY	SGG PLANITHERM ULTRA N II	38	6	29	12	59	0.35	0.40	1.4	1.1	0.03
SGG PARSOL BRONZE	SGG PLANITHERM ONE T	37	9	25	16	59	0.32	0.37	1.3	1.0	0.01
SGG PARSOL BRONZE	SGG PLANITHERM ULTRA N II	43	7	31	13	56	0.37	0.43	1.4	1.1	0.03
SGG PARSOL GREEN	SGG PLANITHERM ONE T	56	16	27	11	61	0.33	0.38	1.3	1.0	0.01
SGG PARSOL GREEN	SGG PLANITHERM ULTRA N II	64	10	32	8	60	0.38	0.44	1.4	1.1	0.03
SGG ANTELIO CLEAR	SGG PLANITHERM ONE T	36	35	27	42	31	0.33	0.38	1.3	1.0	0.01
SGG ANTELIO CLEAR	SGG PLANITHERM ULTRA N II	41	33	32	39	29	0.38	0.44	1.4	1.1	0.03
SGG ANTELIO SILVER	SGG PLANITHERM ONE T	53	38	36	46	18	0.43	0.5	1.3	1.0	0.01
SGG ANTELIO SILVER	SGG PLANITHERM ULTRA N II	60	33	43	41	16	0.49	0.57	1.4	1.1	0.03
SGG ANTELIO EMERALD	SGG PLANITHERM ONE T	41	34	21	26	53	0.26	0.29	1.3	1.0	0.01
SGG ANTELIO EMERALD	SGG PLANITHERM ULTRA N II	47	30	24	25	51	0.29	0.33	1.4	1.1	0.03

- **SGG PARSOL®** is a range of body-tinted glass to give a coloured appearance and solar control properties.
- **SGG ANTELIO®** is a range of solar control glass with a reflective appearance and can be curved, enamelled or screen-printed to give greater architectural and technical flexibility.

Combining these solar control glazing options with either SGG PLANITHERM ONE T or SGG PLANITHERM ULTRA N II creates an insulating sealed unit with exceptionally low U-values as well as high performance solar control.

## SGG PLANITHERM® RANGE

Sealed Unit Configuration (6-16-6)		Visible Light		Energy Factors			Solar Factor	Shading Coefficient	U-value		Normal Internal Emissivity (Single Inner Pane)
Outer Pane	Inner Pane	Total Light Transmission %	External Reflection %	Direct Transmission %	External Reflection %	Absorption %	g	SC	Air W/m²K	Argon (90%) W/m²K	
SGG PLANICLEAR	SGG PLANITHERM ONE T	69	21	45	35	19	0.54	0.62	1.3	1.0	0.01
SGG DIAMANT	SGG PLANITHERM ONE T	70	22	47	39	15	0.56	0.64	1.3	1.0	0.01
SGG PLANICLEAR	SGG PLANITHERM ULTRA N II	79	12	55	27	18	0.63	0.72	1.4	1.1	0.03
SGG DIAMANT	SGG PLANITHERM ULTRA N II	80	12	57	30	13	0.65	0.75	1.4	1.1	0.03
SGG PLANICLEAR	SGG PLANITHERM TOTAL+	80	12	62	19	19	0.71	0.82	1.4	1.2	0.05
SGG DIAMANT	SGG PLANITHERM TOTAL+	81	12	64	21	15	0.74	0.85	1.4	1.2	0.05

The **SGG PLANITHERM®** range consists of a suite of revolutionary high performance low-emissivity (low-E) glass coatings offering insulating glazing solutions for a variety of applications.

- **SGG PLANITHERM® ONE T** is a high performing low-E glass developed for specifications where best thermal insulation is needed, with a U-value of 1.0W/m²k in a 16mm 90% argon cavity.
- **SGG PLANITHERM® ULTRA N** is a high performance low-E glass developed for specifications where high thermal insulation is required, with a U-value of 1.1W/m²k in a 16mm 90% argon cavity.
- **SGG PLANITHERM® TOTAL+** is a revolutionary high performance low-E glass developed specifically for the need of the UK market, and is optimised for Window Energy Ratings (WERs), which makes it one of the most energy efficient low-E glass products available.