sgg STADIP[®] & STADIP SILENCE[®] RANGE

Configuration of Unit*			Frequ	ency	Rw (C;Ctr)	Rw	Ra	Ra,tr		
-	125	250	500	1000	2000	4000				
6 mm / 15 mm / 8.8 mm	25	28	36	43	35	47	36 (-1;-4)	36	35	32
8 mm / 16 mm / 8.8 mm	29	26	35	43	41	54	37 (-2;-5)	37	35	32
8 mm / 15 mm / 10.8 mm	25	32	39	43	42	57	41 (-2;-5)	41	39	36
10 mm / 16 mm / 8.8 mm	30	32	40	43	43	54	40 (-2;-5)	40	38	35
10 mm / 12 mm / 10.8 mm	22	27	37	38	43	60	37 (-1;-4)	37	36	33
10 mm / 16 mm / 12.8 mm	34	33	40	40	44	59	41 (-1;-3)	41	40	38
6 mm / 16 mm / 8.8 mm SS	28	26	37	47	45	52	39 (-1;-5)	39	38	34
6 mm / 12 mm / 9.5 mm SS	28	28	36	47	44	51	39 (-2;-6)	39	37	33
8 mm / 15 mm / 8.8 mm SS	25	30	40	46	45	58	41 (-2;-6)	41	39	35
8 mm / 16 mm / 10.8 mm SS	25	31	43	49	45	58	43 (-2;-6)	43	41	37
8 mm / 20 mm / 12.8 mm SS	28	33	41	47	43	54	42 (-1;-5)	42	41	37
10 mm / 15 mm / 8.8 mm SS	26	33	38	45	46	58	42 (-2;-5)	42	40	37
10 mm / 16 mm / 12.4 mm SS	31	38	45	45	45	58	45 (-1;-5)	45	44	40
12 mm / 15 mm / 8.8 mm SS	31	35	40	42	49	55	43 (-1;-4)	43	42	39
12 mm / 20 mm / 12.8 mm SS	37	38	43	42	47	57	45 (-1;-3)	45	44	42
10.8 mm SS / 24 mm / 14.8 mm SS	38	44	48	53	54	61	51 (-1;-4)	51	50	47

SS denotes use of $_{\text{SG}}$ STADIP SILENCE acoustic laminate interlayer.

All acoustic performances are tested and certified in accordance with CC marking. Acoustic test reports can be requested through Saint-Gobain Glass.

NSSPlus



Saint-Gobain Glass UK Ltd Weeland Road, Eggborough East Riding of Yorkshire, DN14 0FD, UK Tel: 01977 666 100

www.saint-gobain-glass.com

uk.marketing@saint-gobain.com

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/m^2K .

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.

All products listed in this booklet are available through Saint-Gobain Glass UK, subject to availability. ⁵⁰⁶ BIOCLEAN, ⁵⁰⁶ COOL-LITE, ⁵⁰⁶ PLANILUX, ⁵⁰⁶ PLANITHERM, ⁵⁰⁶ STADIP, ⁵⁰⁶ STADIP SILENCE and all other devices and logos are registered trademarks of Saint-Gobain.



Printed on 160gsm Cocoon Offset, an extra-white certified FSC 100% recycled paper using vegetable based inks.

Light Reflectance (LRe)

re-emitted to the interior).

sound transmittance.

Weighted Noise Reduction (Rw)

the human ear and measures actual

reflected by the glass.

Solar Factor (g)

The proportion of the visible spectrum that is

The percentage of total solar radiant heat energy

transmitted through glazing (the sum of energy

transmitted directly and energy absorbed and

A single figure rating for the sound insulation

of building elements. Includes a weighting for



sgg COOL-LITE[®] RANGE

Sealed Unit Configuration (6-16-4)		Visible Light		Energy Factors			Solar Factor	Shading Coefficient	U-value	
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 60/28 II	sgg PLANILUX	60	15	26	39	35	0.28	0.32	1.3	1.0
sgg COOL-LITE XTREME 60/28	SGG PLANILUX	60	14	26	39	35	0.28	0.32	1.3	1.0
SGG COOL-LITE SKN 174 II	SGG PLANILUX	69	11	38	27	35	0.41	0.47	1.4	1.1
SGG COOL-LITE SKN 174	SGG PLANILUX	69	11	38	28	34	0.41	0.47	1.4	1.1
SGG COOL-LITE SKN 165 II	SGG PLANILUX	61	16	30	30	40	0.33	0.38	1.3	1.0
SGG COOL-LITE SKN 165	SGG PLANILUX	61	16	30	32	38	0.33	0.38	1.4	1.1
SGG COOL-LITE SKN 154 II	SGG PLANILUX	50	18	24	32	44	0.27	0.31	1.3	1.0
sgg COOL-LITE SKN 154	sgg PLANILUX	50	18	24	34	42	0.27	0.31	1.3	1.0
sgg COOL-LITE SKN 144 II	sgg PLANILUX	40	20	20	31	50	0.23	0.26	1.4	1.1
sgg COOL-LITE ST 150	sgg PLANITHERM ULTRA N II	45	19	30	20	50	0.36	0.42	1.4	1.1
sgg COOL-LITE ST 150	SGG PLANITHERM ONE II	41	22	25	23	52	0.30	0.35	1.3	1.0

• see COOL-LITE XTREME/XTREME II 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.

see COOL-LITE SKN/SKN II is a range of four solar control glazing options for use in residential and commercial buildings. The range is designed to balance high performance with very neutral aesthetics offering different amounts of solar control and light transmissions to create light, comfortable interiors.
see 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 RANGES

Sealed Unit Configuration (6-16-6)		Visible Light		Energy Factors			Solar Factor	Shading Coefficient	U-value	
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 II	34	8	23	15	62	0.29	0.33	1.3	1.0
SGG PARSOL GREY	sgg PLANITHERM ULTRA N II	38	6	28	12	60	0.35	0.40	1.4	1.1
SGG PARSOL BRONZE	SGG PLANITHERM ONE II	38	10	24	17	59	0.31	0.35	1.3	1.0
SGG PARSOL BRONZE	SGG PLANITHERM ULTRA N II	43	7	30	13	57	0.37	0.43	1.4	1.1
SGG PARSOL GREEN	SGG PLANITHERM ONE II	57	16	27	12	61	0.33	0.37	1.3	1.0
SGG PARSOL GREEN	SGG PLANITHERM ULTRA N II	64	9	32	8	60	0.38	0.44	1.4	1.1
SGG ANTELIO CLEAR	SGG PLANITHERM ONE II	37	30	25	37	38	0.31	0.35	1.3	1.0
SGG ANTELIO CLEAR	sgg PLANITHERM ULTRA N II	41	27	30	32	37	0.37	0.43	1.4	1.1
SGG ANTELIO SILVER	SGG PLANITHERM ONE II	54	37	34	43	23	0.40	0.46	1.3	1.0
SGG ANTELIO SILVER	sgg PLANITHERM ULTRA N II	59	32	41	36	24	0.48	0.55	1.4	1.1
SGG ANTELIO EMERALD	SGG PLANITHERM ONE II	43	24	21	15	64	0.26	0.30	1.3	1.0
SGG ANTELIO EMERALD	SGG PLANITHERM ULTRA N II	47	21	24	14	63	0.30	0.34	1.4	1.1

• see PARSOL® is a range of body-tinted glass to give a coloured appearance and solar control properties.

• see 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 see PLANITHERM ONE II or see 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	
Outer Pane	Inner Pane	Total Light Transmission %	External Reflection %	Direct Transmission %	External Reflection %	Absorption %	g	sc	Air W/m²K	Argon (90%) W/m²K
sgg PLANILUX	SGG PLANITHERM ONE II	70	21	43	35	23	0.50	0.57	1.3	1.0
SGG DIAMANT	SGG PLANITHERM ONE II	71	22	45	41	14	0.53	0.61	1.3	1.0
sgg PLANILUX	SGG PLANITHERM ULTRA N II	78	12	52	25	24	0.61	0.70	1.4	1.1
sgg DIAMANT	SGG PLANITHERM ULTRA N II	80	12	55	30	15	0.65	0.74	1.4	1.1
SGG PLANILUX	SGG PLANITHERM TOTAL+	79	12	57	18	25	0.68	0.79	1.4	1.2
SGG DIAMANT	SGG PLANITHERM TOTAL+	80	12	61	21	19	0.74	0.85	1.4	1.2

The see 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 is a very high performing low-E glass developed for specifications where the best thermal insulation is needed, with a U-value of 1.0W/m²K in a 16mm 90% argon cavity. SGG PLANITHERM ONE II is the only toughenable 1.0W/m²K product currently available on the market.
sGG PLANITHERM ULTRA N is a high performance low-E glass developed for specifications where high thermal insulation is needed, with a U-value of 1.1W/m²K in a 16mm 90% argon cavity.

• see PLANITHERM TOTAL+ is a revolutionary high performance low-E glass developed specifically for the needs 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 today.