

The ESSENTIAL

*to choose
the right energy
efficient glazing*

Version July 2015



Average performance values of DGU (6+12+6 mm) with coating on surface #2, according to the standards NFRC 100

PRODUCT	Light Transmittance LT (%)	Solar Heat Gain Coefficient SHGC	Shading Coefficient SC	Selectivity LT/SHGC	External Light Reflectance LRe (%)	Internal Light Reflectance LRI (%)	U-Value (NFRC) W/(m².K)			U-Value Btu/(h.ft².F)		Processing					Maximum size (cm)
							12mm air	12mm air (R)	16mm argon	12mm air	16mm argon	Annealed coating	Temperable coating (one single stock)	Lamination (coating on #2 inside the laminate)	Bending	Screen-printing and enamelling	
NEUTRAL																	
SGG COOL-LITE XTREME 60/28 II	61	0.26	0.30	2.34	14	17	1.63	0.61	1.41	0.29	0.25	XTREME 60/28					600×321 ⁵
SGG COOL-LITE SKN 176 II	70	0.34	0.39	2.03	13	15	1.61	0.62	1.39	0.28	0.25	SKN 176					600×321 ⁵
SGG COOL-LITE SKN 174 II	69	0.38	0.44	1.78	11	13	1.64	0.61	1.42	0.29	0.25	SKN 174		✓ ²	✓ ³		600×321 ⁵
SGG COOL-LITE SKN 165 II (asia)	60	0.31	0.36	1.94	16	17	1.63	0.61	1.41	0.29	0.25	SKN 165		✓ ²			600×321 ⁵
SGG COOL-LITE SKN 163 II	58	0.32	0.37	1.80	15	17	1.63	0.61	1.41	0.29	0.25						450×254
SGG COOL-LITE SKN 154 II (asia)	50	0.26	0.30	1.93	18	26	1.61	0.62	1.39	0.28	0.25	SKN 154		✓ ²	✓ ³		600×321 ⁵
SGG COOL-LITE SKN 145	41	0.22	0.25	1.89	19	15	1.64	0.61	1.42	0.29	0.25	SKN 145					600×321
SGG COOL-LITE SKN 144 II (asia)	40	0.22	0.26	1.78	20	12	1.64	0.61	1.42	0.29	0.25						600×321
SGG COOL-LITE KNT 164 (asia)	57	0.46	0.53	1.25	14	10	1.87	0.53	1.67	0.33	0.29		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE KNT 155 (asia)	47	0.37	0.42	1.27	17	10	1.83	0.55	1.63	0.32	0.29		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE KNT 140 (asia)	37	0.28	0.32	1.32	23	12	1.80	0.56	1.60	0.32	0.28		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE KN 166 II	60	0.37	0.43	1.63	22	25	1.63	0.61	1.41	0.29	0.25						600×321
SGG COOL-LITE KN 165 II	58	0.41	0.47	1.44	19	13	1.71	0.58	1.50	0.30	0.26						450×254
SGG COOL-LITE KN 152 II	49	0.34	0.39	1.44	25	14	1.70	0.59	1.49	0.30	0.26						450×254
SGG COOL-LITE E 150 II *	45	0.43	0.49	1.05	15	17	2.45	0.41	2.29	0.43	0.40						366×244
SGG COOL-LITE E 125 II *	25	0.25	0.29	1.02	29	15	1.95	0.51	1.76	0.34	0.31						366×244
SGG COOL-LITE ST 167	60	0.60	0.69	1.01	22	23	2.67	0.37	2.53	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE ST 150 (asia)	46	0.46	0.55	0.97	20	22	2.67	0.37	2.53	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG ANTELIO CLEAR	42	0.55	0.64	0.77	28	35	2.69	0.37	2.55	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	600×321
EXTRA CLEAR																	
SGG COOL-LITE XTREME 60/28 DIAMANT	62	0.26	0.30	2.29	15	17	1.63	0.61	1.41	0.29	0.25	XTREME 60/28 II on DIAMANT					600×321 ⁵
SGG COOL-LITE SKN 076 II	71	0.35	0.40	2.05	13	15	1.61	0.62	1.39	0.28	0.25	SKN 076					600×321 ⁵
SGG COOL-LITE SKN 074 II	70	0.39	0.45	1.79	11	13	1.64	0.61	1.42	0.29	0.25	SKN 074		✓ ²			600×321 ⁵
SGG COOL-LITE SKN 065 II	62	0.32	0.37	1.92	17	19	1.63	0.61	1.41	0.29	0.25	SKN 065		✓ ²			600×321 ⁵
SGG COOL-LITE SKN 054 II	53	0.27	0.31	1.95	18	23	1.61	0.62	1.39	0.28	0.25	SKN 054		✓ ²			600×321 ⁵
SGG COOL-LITE SKN 044 II	42	0.23	0.26	1.83	20	15	1.64	0.61	1.42	0.29	0.25	SKN 044					600×321
SGG COOL-LITE KN 066 II	62	0.38	0.44	1.63	22	26	1.63	0.61	1.41	0.29	0.25						600×321
SILVER																	
SGG COOL-LITE SKS 146 II	42	0.22	0.25	1.89	30	18	1.63	0.61	1.41	0.29	0.25						366×254
SGG COOL-LITE KS 150 II	46	0.34	0.39	1.35	29	16	1.68	0.60	1.47	0.30	0.26						450×254
SGG COOL-LITE KS 050 II	47	0.36	0.41	1.31	30	17	1.68	0.60	1.47	0.30	0.26						450×254
SGG COOL-LITE KS 147	43	0.30	0.35	1.43	42	37	1.66	0.60	1.44	0.29	0.25	KS 147					600×321
SGG COOL-LITE KS 146 II	42	0.28	0.32	1.50	33	19	1.68	0.60	1.47	0.30	0.26						366×244
SGG COOL-LITE KS 145 II	40	0.27	0.31	1.48	33	26	1.66	0.60	1.44	0.29	0.25						366×254
SGG COOL-LITE KS 138 II	36	0.25	0.29	1.44	40	19	1.68	0.60	1.47	0.30	0.26						366×244
SGG COOL-LITE ST BRIGHT SILVER PLANICLEAR	62	0.63	0.72	0.99	34	34	2.69	0.37	2.55	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	600×321 ⁵
SGG COOL-LITE ST BRIGHT SILVER DIAMANT	63	0.66	0.76	0.96	35	35	2.69	0.37	2.55	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	600×321 ⁵
SGG COOL-LITE ST 120	18	0.23	0.27	0.78	32	30	2.51	0.40	2.36	0.44	0.42		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE ST 108	7	0.11	0.13	0.65	44	39	1.88	0.53	1.69	0.33	0.30		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG ANTELIO SILVER	62	0.65	0.74	0.96	34	34	2.69	0.37	2.55	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG MIRASTAR	3	0.11	0.13	0.26	55	59	1.99	0.50	1.80	0.35	0.32		✓	✓ ²		✓ ⁶	600×321
GREY																	
SGG COOL-LITE KN 130 II	31	0.25	0.29	1.22	22	13	1.83	0.55	1.62	0.32	0.29						450×254
SGG COOL-LITE ST 136	34	0.36	0.41	0.93	23	23	2.62	0.38	2.48	0.46	0.44		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG REFLECTASOL DARK GREY	4	0.29	0.33	0.15	5	52	2.69	0.37	2.55	0.47	0.45		✓	✓ ²		✓ ⁶	321×225
GOLD																	
SGG COOL-LITE KG 137 TEMPERED	35	0.28	0.32	1.24	33	32	1.70	0.59	1.49	0.30	0.26	KG 137 annealed ⁷	✓				600×321
SGG REFLECTASOL LIGHT GOLD	30	0.48	0.55	0.62	47	53	2.69	0.37	2.55	0.47	0.45		✓	✓ ²		✓ ⁶	321×225
BLUE-GREEN																	
SGG COOL-LITE KBT 440	30	0.23	0.27	1.29	18	16	1.84	0.54	1.65	0.32	0.29		✓	✓ ²		✓ ⁶	600×321
SGG COOL-LITE KB 430 II	21	0.18	0.21	1.13	16	22	1.75	0.57	1.54	0.31	0.27						366×254
SGG COOL-LITE STB 436	27	0.27	0.31	0.98	15	20	2.60	0.40	2.50	0.46	0.43		✓				366×254
SGG COOL-LITE STB 420	17	0.22	0.26	0.75	16	32	2.53	0.40	2.38	0.45	0.42		✓	✓ ²		✓ ⁶	600×321

¹ DGU values calculated with SGG PLANILUX as inner pane. except for extra clear appearance for which SGG DIAMANT is used and coatings produced only in Europe for which SGG PLANICLEAR is used

² Solar control coating in contact with PVB modifies performances and aesthetics. Please contact us to get the approved PVB list

³ Bending results depend on the process; trials should be done for validation

⁴ SGG COOL-LITE SKN 154: LRI=22%

⁵ Overlength until 930 cm is possible on request for XTREMEII/SKN176II/SKN165II/SKN174II/SKN154II

⁶ Validation should be taken with digital printing inks and enamels.

⁷ SGG COOL-LITE KG 137 annealed: LRe=30%, LRI=29%

SOLAR CONTROL GLASS RANGE

Average performance values of DGU (6+12+6 mm) with coating on surface #2, according to the standards NFRC 100

PRODUCT	Light Transmittance LT (%)	Solar Heat Gain Coefficient SHGC	Shading Coefficient SC	Selectivity LT/SHGC	External Light Reflectance LRe (%)	Internal Light Reflectance LRI (%)	U-Value (NFRC) W/(m².K)			U-Value Btu/(h.ft².F)		Annealed coating	Temperable coating (one single stock)	Processing			Maximum size (cm)
							12mm air	12mm air (R)	16mm argon	12mm air	16mm argon			Lamination (coating on #2 inside the laminate)	Bending	Screen-printing and enamelling	
GREEN																	
SGG COOL-LITE SKN 465 II	50	0.26	0.30	1.89	12	16	1.63	0.61	1.41	0.29	0.25					366×244	
SGG COOL-LITE SKN 454 II	41	0.23	0.26	1.83	14	26	1.61	0.62	1.39	0.28	0.25					366×244	
SGG COOL-LITE SKN 444 II	33	0.20	0.23	1.67	15	12	1.64	0.61	1.42	0.29	0.25					366×244	
SGG COOL-LITE KNT 464	47	0.32	0.37	1.45	11	10	1.87	0.53	1.67	0.33	0.29		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE KNT 455	39	0.28	0.32	1.42	13	10	1.83	0.55	1.63	0.32	0.29		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE KNT 440	31	0.23	0.26	1.36	17	12	1.80	0.56	1.60	0.32	0.28		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE KNT 430 II	26	0.21	0.24	1.24	16	13	1.83	0.55	1.62	0.32	0.29						366×244
SGG COOL-LITE KS 446 II	35	0.23	0.26	1.53	24	19	1.68	0.60	1.47	0.30	0.26						366×244
SGG COOL-LITE KS 438 II	30	0.21	0.24	1.45	29	19	1.68	0.60	1.47	0.30	0.26						366×244
SGG COOL-LITE E 450 II	37	0.32	0.37	1.17	12	17	2.45	0.41	2.29	0.43	0.40						366×244
SGG COOL-LITE E 425 II	21	0.20	0.23	1.07	21	15	1.95	0.51	1.76	0.34	0.31						366×244
SGG COOL-LITE ST 467	50	0.42	0.48	1.20	17	23	2.67	0.37	2.53	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE ST 450	38	0.35	0.40	1.10	15	22	2.67	0.37	2.53	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE ST 436	28	0.28	0.32	0.98	17	22	2.62	0.38	2.48	0.46	0.44		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE ST 420	15	0.21	0.24	0.72	24	30	2.51	0.40	2.36	0.44	0.42		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG COOL-LITE ST 408	6	0.12	0.13	0.52	32	39	1.88	0.53	1.69	0.33	0.30		✓	✓ ²	✓ ³	✓ ⁶	600×321
SGG REFLECTASOL 'H GREEN'	24	0.33	0.36	0.74	34	53	2.69	0.37	2.55	0.47	0.45		✓	✓ ²		✓ ⁶	321×225
SGG ANTELIO EMERALD	49	0.39	0.45	1.25	22	32	2.69	0.37	2.55	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	600×321
BLUE																	
SGG COOL-LITE SKN 765 II	38	0.23	0.26	1.66	9	16	1.63	0.61	1.41	0.29	0.25						366×244
SGG COOL-LITE SKN 754 II	32	0.20	0.23	1.59	10	25	1.61	0.62	1.39	0.28	0.25						366×244
SGG COOL-LITE SKN 744 II	25	0.18	0.21	1.41	11	12	1.64	0.61	1.42	0.29	0.25						366×244
SGG COOL-LITE KS 746 II	27	0.21	0.24	1.29	16	19	1.68	0.60	1.47	0.30	0.26						366×244
SGG COOL-LITE KS 738 II	23	0.19	0.22	1.21	19	19	1.68	0.60	1.47	0.30	0.26						366×244
SGG COOL-LITE KBT 140	36	0.30	0.35	1.19	24	17	1.84	0.54	1.65	0.32	0.29		✓	✓ ²		✓ ⁶	600×321
SGG COOL-LITE KB 130 II	25	0.23	0.26	1.09	21	22	1.75	0.57	1.54	0.31	0.27			✓ ²		✓ ⁶	600×321
SGG COOL-LITE KNT 764	36	0.29	0.33	1.25	8	9	1.87	0.53	1.67	0.33	0.29		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE KNT 755	30	0.25	0.29	1.20	10	10	1.83	0.55	1.63	0.32	0.29		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE KNT 740	24	0.20	0.23	1.15	12	12	1.80	0.56	1.60	0.32	0.28		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE KN 730 II	20	0.19	0.22	1.04	11	13	1.83	0.55	1.62	0.32	0.29						366×244
SGG COOL-LITE E 750 II *	29	0.29	0.34	0.98	9	16	2.45	0.41	2.29	0.43	0.40						366×244
SGG COOL-LITE E 725 II *	16	0.18	0.21	0.88	14	15	1.95	0.51	1.76	0.34	0.31						366×244
SGG COOL-LITE STB 136	32	0.37	0.42	0.86	19	20	2.60	0.40	2.46	0.46	0.43		✓	✓ ²		✓ ⁶	600×321
SGG COOL-LITE STB 120	20	0.26	0.30	0.77	21	32	2.53	0.40	2.38	0.45	0.42		✓	✓ ²		✓ ⁶	600×321
SGG COOL-LITE ST 767	38	0.38	0.43	1.01	12	22	2.67	0.37	2.53	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE ST 750	29	0.32	0.37	0.91	11	21	2.67	0.37	2.53	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE ST 736	21	0.27	0.30	0.80	12	22	2.62	0.38	2.48	0.46	0.44		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE ST 720	12	0.20	0.23	0.58	16	30	2.51	0.40	2.36	0.44	0.42		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE ST 708	5	0.12	0.14	0.39	20	39	1.88	0.53	1.69	0.33	0.30		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG REFLECTASOL BLUE	18	0.30	0.35	0.60	22	52	2.69	0.37	2.55	0.47	0.45		✓	✓ ²		✓ ⁶	321×225
BRONZE																	
SGG COOL-LITE SKN 265 II	33	0.22	0.25	1.53	8	16	1.63	0.61	1.41	0.29	0.25						366×244
SGG COOL-LITE SKN 254 II	27	0.19	0.21	1.47	8	25	1.61	0.62	1.39	0.28	0.25						366×244
SGG COOL-LITE SKN 244 II	22	0.17	0.19	1.31	9	11	1.64	0.61	1.42	0.29	0.25						366×244
SGG COOL-LITE KNT 264	31	0.32	0.36	0.99	7	9	1.87	0.53	1.67	0.33	0.29		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE KNT 255	26	0.26	0.30	0.98	8	10	1.83	0.55	1.63	0.32	0.29		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE KNT 240	20	0.21	0.24	0.97	10	12	1.80	0.56	1.60	0.32	0.28		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE KN 230 II	17	0.19	0.22	0.88	10	13	1.83	0.55	1.62	0.32	0.29						366×244
SGG COOL-LITE KS 246 II	23	0.20	0.23	1.12	13	18	1.68	0.60	1.47	0.30	0.26						366×244
SGG COOL-LITE KS 238 II	20	0.19	0.22	1.04	15	19	1.68	0.60	1.47	0.30	0.26						366×244
SGG COOL-LITE E 250 II *	25	0.32	0.37	0.77	8	16	2.45	0.41	2.29	0.43	0.40						366×244
SGG COOL-LITE E 225 II *	14	0.20	0.23	0.70	12	15	1.95	0.51	1.76	0.34	0.31						366×244
SGG COOL-LITE ST 267	33	0.43	0.50	0.76	10	22	2.67	0.37	2.53	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE ST 250	25	0.36	0.41	0.71	9	21	2.67	0.37	2.53	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE ST 236	18	0.29	0.33	0.64	10	22	2.62	0.38	2.48	0.46	0.44		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE ST 220	10	0.21	0.24	0.47	13	30	2.51	0.40	2.36	0.44	0.42		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG COOL-LITE ST 208	4	0.12	0.14	0.34	16	39	1.88	0.53	1.69	0.33	0.30		✓	✓ ²	✓ ³	✓ ⁶	366×244
SGG REFLECTASOL BRONZE	16	0.38	0.44	0.43	17	52	2.69	0.37	2.55	0.47	0.45		✓	✓ ²		✓ ⁶	321×225
SGG ANTELIO HAVANE	22	0.22	0.37	0.43	12	34	2.69	0.37	2.55	0.47	0.45		✓	✓ ²	✓ ³	✓ ⁶	600×321

S O L A R C O N T R O L G L A S S R A N G E

Average performance values of DGU (6+12+6 mm) with coating on surface #2, according to the standards NFRC 100

PRODUCT	Aesthetics in exterior reflection	Coating position	Light Transmittance LT (%)	Solar Heat Gain Coefficient SHGC	Shading Coefficient SC	External Light Reflectance LRe (%)	Internal Light Reflectance LRi (%)	U-Value (NFRC) W/(m².K)			U-Value Btu/(h.ft².F)		Processing		Maximum size (cm)	Benefits	
								12mm air	12mm air (R)	16mm argon	12mm air	16mm argon	Annealed coating	Temperable coating (one single stock)			
High Light Transmission low-E glass (DGU 6+12+6mm)																	
SGG PLANITHERM DUAL 0.9	Neutral	# 3 # 4	65	0.45	0.52	24	24	1.32	0.76	1.15	0.23	0.20	PLANITHERM DUAL 0.9		600x321	<ul style="list-style-type: none"> • Heating energy savings in winter time due to high level of thermal insulation • Cooling energy savings in summertime in combination with solar control glass • No cold area around windows in heating dominating climate • Environmentally friendly thanks to the CO₂ emission reduction • High color neutrality for windows and façade applications 	
SGG PLANITHERM DUAL 1.0	Neutral	# 3 # 4	74	0.57	0.66	15	15	1.35	0.74	1.19	0.24	0.21	PLANITHERM DUAL 1.0		600x321		
SGG PLANITHERM ONE II	Neutral	# 3	71	0.49	0.57	22	23	1.62	0.62	1.40	0.29	0.25	ONE		600x321		
SGG PLANITHERM XN II	Neutral	# 3	81	0.61	0.70	12	13	1.66	0.60	1.44	0.29	0.25	XN		600x321 ¹		
SGG PLANITHERM XN II DIAMANT	Extra clear	# 3	83	0.63	0.73	12	13	1.66	0.60	1.44	0.29	0.25	XN DIAMANT		600x321 ¹		
SGG PLANITHERM 1.16 II	Neutral	# 3	78	0.61	0.70	12	12	1.70	0.59	1.49	0.30	0.26	1.16		450x254		
SGG PLANITHERM TOTAL +	Neutral	# 3	80	0.69	0.79	12	12	1.70	0.59	1.48	0.30	0.26		✓	600x321		
SGG PLANITHERM 1.3 T	Neutral	# 3	75	0.62	0.71	12	12	1.79	0.56	1.58	0.31	0.28		✓	450x254		
No edge deletion Low-E glass (DGU 6+12+6mm)																	
SGG PLANITHERM HN annealed	Neutral	# 3	69	0.55	0.63	13	12	1.85	0.54	1.65	0.33	0.29	HN annealed	✓ ²	600x321	<ul style="list-style-type: none"> • No edge deletion glass • Longer shelf life 	
SGG PLANITHERM HN tempered	Neutral	# 3	75	0.56	0.64	12	13	1.81	0.55	1.61	0.32	0.28		✓ ²	600x321		
Low-E on tinted glass (DGU 6+12+6mm)																	
SGG PLANITHERM 1.3 T on green	Green	# 2	62	0.39	0.44	9	11	1.79	0.56	1.58	0.31	0.28		✓	366x244	<ul style="list-style-type: none"> • Cooling energy savings • Good level of thermal insulation • Blue or green color appearance from the exterior 	
SGG PLANITHERM 1.3 T on blue	Blue	# 2	48	0.34	0.39	7	11	1.79	0.56	1.58	0.31	0.28		✓	366x244		
SGG PLANITHERM 1.3 T on bronze	Bronze	# 2	41	0.36	0.42	7	10	1.79	0.56	1.58	0.31	0.28		✓	366x244		
«Four seasons» low-E glass (DGU 6+12+6mm)																	
SGG PLANISTAR SUN	Neutral	# 2	71	0.35	0.40	14	15	1.63	0.61	1.41	0.29	0.25	PLANISTAR SUN		600x321	<ul style="list-style-type: none"> • In wintertime <ul style="list-style-type: none"> - Energy savings due to reduced heating requirement - No cold areas around windows • In summertime <ul style="list-style-type: none"> - Improved comfort due to reduced overheating - Less running cost for air conditioning • Environmentally friendly thanks to the CO₂ emission reduction • SGG PLANITHERM BRONZE has a bronze appearance from the exterior, fitting well with wooden frames 	
SGG PLANITHERM 4S II	Neutral	# 2	65	0.40	0.46	27	24	1.62	0.62	1.40	0.29	0.25	4S		600x321		
SGG PLANITHERM 4S EVO	Neutral	# 2	60	0.37	0.42	22	26	1.62	0.62	1.40	0.29	0.25	4S EVO		600x321		
SGG PLANITHERM BRONZE	Bronze	# 2	43	0.27	0.31	9	26	1.61	0.62	1.39	0.28	0.24	BRONZE		600x321		
								12mm air	12mm air (R)	16mm argon	12mm air	16mm argon					
Low-E glass for triple glazing units (TGU 4+x+4+x+4mm)																	
SGG PLANITHERM LUX II	Neutral	# 2 # 5	73	0.61	0.70	17	17	0.90	1.10	0.68	0.16	0.12	LUX		600x321	<ul style="list-style-type: none"> • Excellent energy balance for cold and mixed climates • High solar heat gain • Extreme level of thermal insulation • Very high light transmittance • High neutrality and transparency • Anticondensation with Viewclear II 	
SGG PLANITHERM LUX II DIAMANT	Extra Clear	# 2 # 5	75	0.63	0.73	17	17	0.90	1.10	0.68	0.16	0.12	LUX DIAMANT		600x321		
SGG PLANITHERM XN II	Neutral	# 2 # 5	74	0.52	0.59	16	16	0.90	1.10	0.63	0.16	0.11	XN		600x321		
SGG VIEWCLEAR II / XN II	Neutral	# 1 # 3 # 5	76	0.53	0.61	16	16	0.90	1.10	0.63	0.16	0.11			600x321		
SGG VIEWCLEAR II / LUX II	Neutral	# 1 # 3 # 5	75	0.53	0.61	14	15	0.90	1.10	0.68	0.16	0.12			600x321		
Self-cleaning glass (DGU 6+12+6mm)																	
SGG BIOCLEAR II	Neutral	# 1	79	0.76	0.87	18	17	2.68	0.37	2.55	0.47	0.45	BIOCLEAR +		600x321	<ul style="list-style-type: none"> • Less frequent and much easier cleaning • Maintenance cost saving • Ideal for hard to reach areas • Very long lifetime coating • Available with energy efficient coatings • Neutrality and transparency close to normal glass 	
SGG BIOCLEAR II ULTRA N II ³	Neutral	# 1 # 2	78	0.56	0.64	15	15	1.70	0.60	1.50	0.29	0.25			600x321		
SGG BIOCLEAR SC II clear	Neutral	# 1	45	0.48	0.56	25	24	2.68	0.37	2.55	0.47	0.45			600x321		
Anti-reflective glass																	
SGG VISION LITE (Laminated Glass 44.1)	Extra Clear	# 1 # 4	97	0.85	0.98	1	1						VISION LITE		600x321	<ul style="list-style-type: none"> • Extreme transparence • Very low visible light reflection • High color neutrality • Safety and security 	

LOW-E GLASS RANGE

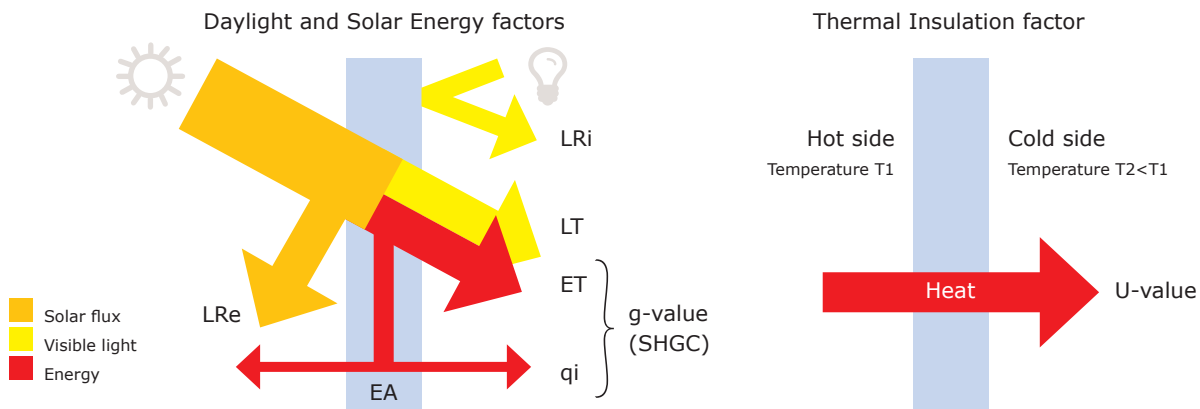
SELF-CLEANING

ANTI-REFLECTIVE

¹Overlength until 930 cm possible on request for XN II, XN II on diamant and ULTRA N II DIAMANT

²No Edge deletion

Definition of key performance factors of a glazing



- Visible Light transmittance (LT):** % of visible light passing through the glazing
- External Light Reflectance (LRe):** % of visible light, reflected outside the glazing
- Internal Light Reflectance (LRI):** % of visible light, reflected to the inside of the building
- Energy Transmittance (ET):** % of solar energy directly transmitted through the glazing
- Energy Absorbance (EA):** % of solar energy absorbed by the glazing
- g-value (SHGC):** Solar Factor or Solar Heat Gain Coefficient. Total solar energy entering into the building. Figure between 0 and 1. The lower the g value, the more efficient is the glazing in blocking the entry of solar energy
- Shading Coefficient (SC):** $SC = g/0.87$
- Selectivity (or LSG):** ratio between the light transmittance (LT) and the solar factor (g-value). The higher the selectivity value, the better is the glazing to cut more solar energy than visible light
- U-value:** Thermal Transfer Coefficient. Quantity of heat transferred through the glazing due to the temperature difference between inside and outside. The lower the U-value, the better the thermal insulation performance

Solutions from Saint-Gobain Glass

Saint-Gobain Glass is offering a complete range of energy efficient glazings — solar control, low-E, daylight and low maintenance — for façade and windows, that meet the requirements of low energy consumption buildings

- Energy and cost savings for cooling and heating
- Electricity and cost savings for artificial lighting
- Glare control
- Reduced emission of greenhouse gas CO₂
- Maintenance cost savings
- Wide range of aesthetics, in term of colors, reflectivity and transparency
- Glass sheets available in various sizes up to XXL jumbo size
- Easy to process products.
- Technical certification programme available for fabricators (please contact us)

Temperable or 'to be tempered'?

- A "temperable coated glass" (ex: Cool-Lite ST, KT, PLANITHERM 1.3 T) can be used tempered or not tempered. It's a 'one single stock' product.
- A "to be tempered coated glass" (ex: SKN 174 II), must be heat-treated to get its performances and aesthetics. Its properties are then equivalent to the not temperable version (ex: SKN 174).


SAINT-GOBAIN

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