



QINGDAO MORN BUILDING MATERIALS CO.,LTD

Your turnkey China tempered glass/laminated glass/insulated glass supplier

Insulated Glass performance -Saint Gobain Glass

Saint Gobain glass ,established in 1665 aimed to building the mirror halls in palace of Versailles.Now it ranks NO.244 in Fortune Global 500,business cover glass,thermal insulation materials,plastic etc.



The low-E coating can be classified into below series:

- Anti Reflective Glass -SGG Vision-Lite
- High light transmittance SGG Planitherm series
- Double silver low-E -SGG COOL-LITE SKN
- Triple silver low-E -SGG COOL-Xtreme
- Single silver low-E -SGG COOL-LITE KN &KNT

Full glass performance can be found here: [SGG performance](#).

Or,Saint gobain offers an online tool to help customers finding the best matched glass: [SGG CalumenLive](#)





1. Anti Reflective Glass -SGG Vision-Lite

SGG vision-Lite is [anti-reflective coated glass](#) which can reduce the glass surface light reflection significantly. The coating can be single side or double side to suit different requirement. Monolithic vacuum coating on 6mm low iron glass light transmittance reach almost 98%. Below chart shows the glass performance between SGG VISION-LITE and China anti-reflective products.

Glass Combination	LT%	LR% (OUT)	LR% (IN)	SC	SHGC
SGG VisionLite Diam-6mm	97.9	1.3	1.3	0.99	0.86
Morn -TAR -5mm	99	0.67	0.67	0.99	0.86
SGG VisionLite Diam-66.2	96.5	1.3	1.3	0.93	0.81
Morn -TAR -88.3	98	1	1	0.93	0.81

2. High performance SGG Planitherm series

Planitherm series including Planitherm One, Ultra N, Ultra N diamond, 1.16, 1.3, total, total +, and Planitherm LUX, Lux Diamond, It's mixed products of single, double, and passive low e coatings. Max for passive house [triple glazing units](#) which require high light transmittance and extremely low thermal conductivity.

Features of Planitherm series is high light transmittance over 70%, and some coating even over 80%. Along with the high glass light transmittance, low reflectance and clear view.

Glass Combination	LT %	LR %-OUT	LR %-IN	Tsol %	Rsol %	U- Summer	U-Winter	SC	SHGC
SGG Planitherm ONE 6+12A+6	70	23	21	39	42	1.56	1.63	0.51	0.44
MXDE80 6+12A+6	70	11	12			1.58	1.64	0.45	0.39
SGG Planitherm Ultra N 6+12A+6	78	12	12	47	29	1.63	1.68	0.62	0.54
MJSE 1.1 6+12A+6	77	15	14	45	26	1.64	1.69	0.63	0.52
SGG Planitherm Total+ 6+12A+6	78	12	12	55	20	1.67	1.71	0.73	0.64
MJSE 1.16 6+12A+6	80	13	13	50	24	1.69	1.72	0.68	0.57
SGG Planitherm 1.3T+ 6+12A+6	75	12	12	46	20	1.74	1.76	0.62	0.54
MJSE83 6+12A+6	75	12	13	46	20	1.75	1.78	0.64	0.53
SGG Planitherm LUX+ 6+16AR+6+16AR+6	65	16	16	40	19	0.7	0.77	0.62	0.54
MSE85A 6+16AR+6+16AR+6	65	15	15	34	25	0.69	0.76	0.53	0.46

3. Double silver low-E -SGG COOL-LITE SKN

SKN series with light transmittance from 40-70%, despite clear glass, the coating can also be applied on [low iron glass](#), green, grey, blue glass to get better SC and lower light transmittance.

Glass Combination	LT %	LR %-OUT	LR %-IN	Tsol %	Rsol %	U- Summer	U-Winter	SC	SHGC
SGG COOL-LITE SKN174 6-12-6	67	11	13	32	34	1.58	1.64	0.43	0.38
MWDE76 6-12A-6	68	11	12	39	27	1.58	1.64	0.45	0.39
SGG COOL-LITE SKN165 6-12-6	60	16	18	26	37	1.58	1.64	0.36	0.31
MWDE60 6-12A-6	58	15	16	30	28	1.6	1.65	0.38	0.33
SGG COOL-LITE SKN154 6-12-6	51	18	22	21	32	1.55	1.62	0.3	0.26
MWDE56 6-12A-6	51	15	19	24	32	1.54	1.61	0.32	0.28
SGG COOL-LITE SKN146 6-12-6	40	11	11	18	30	1.61	1.66	0.27	0.24
SGG COOL-LITE SKN144 6-12-6	41	20	15	17	33	1.55	1.59	0.25	0.22
MWDE46 6-12A-6	41	13	19	17	27	1.61	1.66	0.29	0.25
MJDE46 6-12A-6	40	25	15	17	39	1.63	1.68	0.24	0.21



4. Triple silver low-E -SGG COOL-Xtreme

Triple silver low-E coating is the most advanced coating products worldwide,different from most factories,SGG developed low light transmittance triple silver coating with only 46% LT.Personally I believe this is not necessary as areas which require low light transmittance has better and more cost effective options-double silver low-E on [body tinted glass](#).

Taking example of 55 double silver coating on French Green glass,LT is 43,SHGC 0.23,compared with SGG COOL-LITE50/22,there's little performance difference while price can be 20% lower.

Glass Combination	LT %	LR %-OUT	LR %-IN	Tsol %	Rsol %	U- Summer	U-Winter	SC	SHGC
SGG COOL-LITE XTREME 50/22 6-12-6	46	16	17	15	38	1.55	1.62	0.23	0.2
MWDE55 on French Green 6-12-6	41	13	19	15	11	1.61	1.66	0.26	0.22
MWDE76 on Ford Blue 6-12-6	44	8	10	19	12	1.6	1.69	0.3	0.26
SGG COOL-LITE XTREME 60/28 6-12-6	59	14	16	22	47	1.56	1.63	0.29	0.26
MWTE60 6-12-6	54	11	15	20	35	1.6	1.65	0.28	0.25
SGG COOL-LITE XTREME 70/33 6-12-6	68	11	13	26	40	1.55	1.62	0.35	0.3
MWTE70 6-12-6	65	12	13	25	37	1.55	1.61	0.34	0.30

5. Single silver low-E -SGG COOL-KN & KNT

Just normal single silver low-E glass coatings,below shows our most matched coatings that is available in China.

Glass Combination	LT %	LR %-OUT	LR %-IN	Tsol %	Rsol %	U- Summer	U-Winter	SC	SHGC
SGG COOL-LITE KNT164 6-12-6	57	14	10	37	17	1.8	1.84	0.53	0.46
MSE 0166 6-12-6	58	18	11	34	21	1.79	1.80	0.51	0.44
SGG COOL-LITE KNT155 6-12-6	47	17	10	29	21	1.84	1.84	0.43	0.38
MXSE 0151 6-12-6	47	16	12			1.88	1.88	0.43	0.37
SGG COOL-LITE KNT140 6-12-6	37	23	12	22	27	1.83	1.83	0.33	0.29
MXSE 0141 6-12-6	36	27	17			1.8	1.8	0.27	0.23

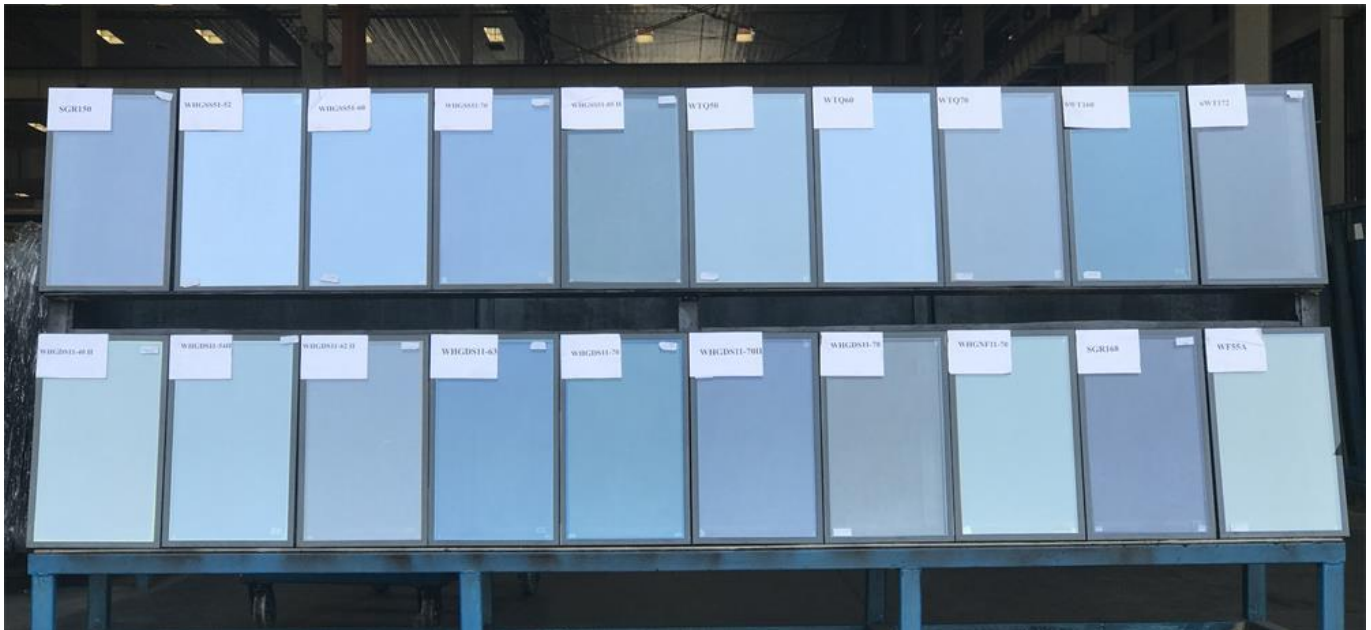
Conclusion:

Working With China top low-E coating manufacturers -Jinjing Group,XYG,TG, Morn now is able to supply low-E coated insulated glass equivalent to Saint Gobain,with much lower costs and equivalent quality&excellent service,we're confidence our joining will help finishing your great building with costs saving and happy work.



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Kindly contact us if any insulated glass are required.

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