

THE ESSENTIAL

FOR CHOOSING THE RIGHT GLAZING

SOUTH EAST ASIA - OCEANIA EDITION



GLASS EXPROVER



SAINT-GOBAIN

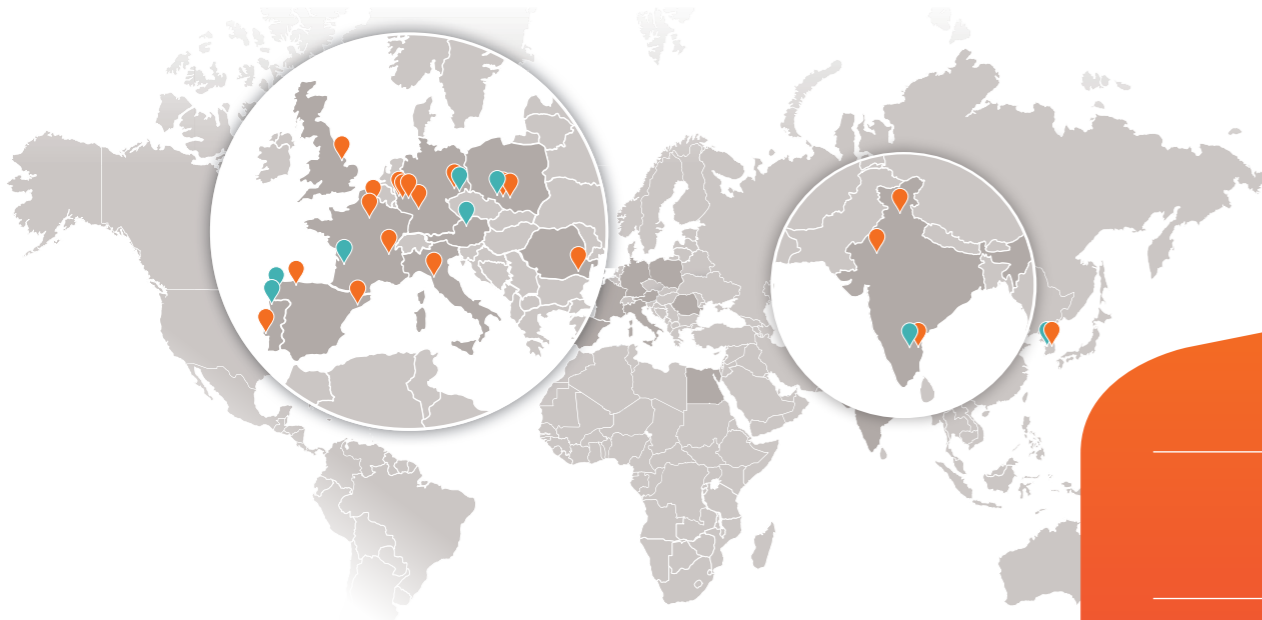
ENHANCE THE WELL-BEING OF BUILDING OCCUPANTS

Since it was founded in 1665, Saint-Gobain has developed into providing high performing and innovative glass solutions: products, services and systems, helping to create great living places and improve daily life.

Saint-Gobain Glass strives to serve and support all construction stakeholders involved in new-build and renovation projects. In every living and working place, wherever comfort, performance and safety are required, we fulfill our customers' needs in four major fields: facades, windows, interior design and protection.

From small contractors and installers, to big processors and manufacturers or architects, our teams are guided by one single ambition: to be considered your preferred partner. To achieve this goal, we are focused on 4 key drivers: expertise, reliability, innovation and passion.

Factories in Europe, Africa and Asia for your projects



MANUFACTURING FACILITIES

High performance glass combining energy efficiency, comfort and respect for the environment

- Clear and tinted glass,
- Patterned glass
- Coated glass
- Laminated glass
- Mirrors

PROCESSING FACTORIES FOR INTERNATIONAL PROJECTS

- Windows
- Facades
- Interior design
- Specialties (domestic appliances, active, nuclear, optical glass, commercial refrigeration, digitally printed, bullet proof...)

33 floats

15 coaters

3 patterned lines

9 factories dedicated to international projects

1665

Creation of the Manufacture Royale des glaces

1688

Invention of glass table casting

1850-1900

Saint-Gobain expands in Europe

1962

Saint-Gobain exports in the whole world

2015

Saint-Gobain celebrates its 350th anniversary

GLASS EXPROVER

Founded in 1962, Glass Exprover is Saint-Gobain's export business. Glass Exprover provides you with the full Saint-Gobain Flat Glass range of both basic glass and processed products, coming from the Group's different factories worldwide.



LOCAL REPRESENTATIVES

Our sales and technical team across the region is on hand to accompany you at every stage of your project.

A dedicated team of experts can provide you with valuable support such as a sustainability analysis, structural calculations, daylighting analysis and acoustic performance calculations for glass during design stage thereby helping you choose the most suitable glass options for your projects.



Contact us for more information



Exproclub

Saint-Gobain Glass Exprover has established exclusive partnerships with a selected number of processors. Our Exproclub members can provide you with a premium quality service. They are specifically trained to meet Saint-Gobain's World Class Manufacturing standards through an intense audit process covering safety, quality, service, technical capabilities and human resource management.



Certified Processors

A network of certified local processors benefit from extensive audits conducted by experts from Saint-Gobain to ensure the right quality of glass processing at all stages before it reaches your project site.

KEY GLAZING PERFORMANCE FACTORS

G-value

Total solar energy entering into the building. Figure between 0 and 1. The lower the g-value, the more efficient the glazing is in blocking solar entry.

Selectivity (or LSG)

Ratio between the light transmittance (LT) and the solar factor (g-value). The higher the selectivity value, the better the glazing is in reducing more solar energy than visible light.

U-value

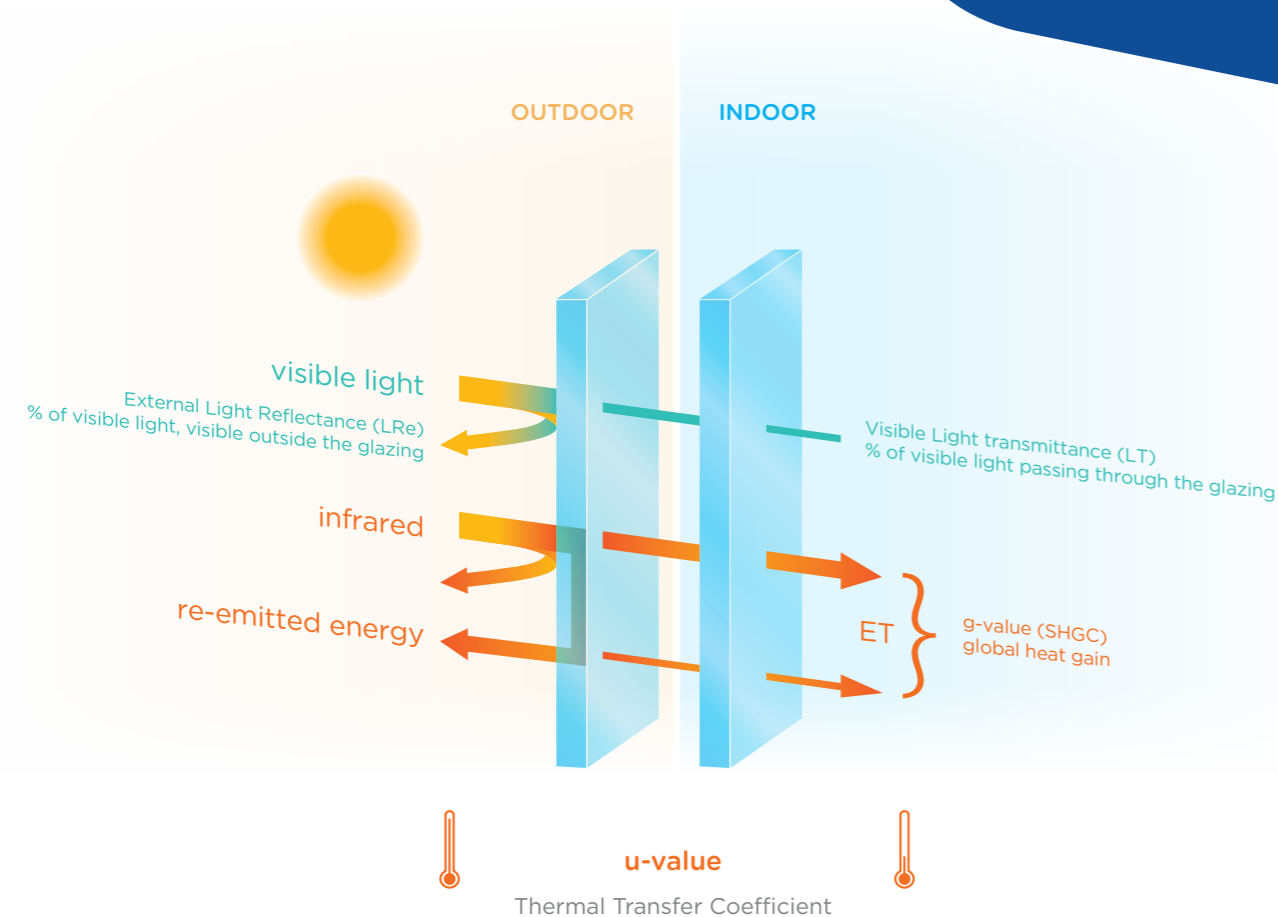
Thermal Transfer Coefficient. Quantity of heat transferred through the glazing due to the temperature difference between inside and outside. The lower the U-value, the better the thermal insulation performance.

Shading Coefficient (SC)

SC = g-value/0.87

GLASS SOLUTIONS FOR FACADES AND INDUSTRIAL SPECIALTIES

Saint-Gobain Glass offers a complete range of energy efficient coated glass and insulated glazing. With solar control, low emissivity, and transparency, our glass meets the requirements of low energy consumption for buildings.



INDUSTRIAL SPECIALTIES PRODUCTS

VISION-LITE II	EVERCLEAR	EKO PRO	PLANITHERM ONE	PLANITHERM UN
4mm	Plt 4 mm + 10 mm Ar + Plt 4 mm+ 10 mm Ar + Everclear 3 mm	4 mm	4mm + 16mm + Plt 4 mm	4 mm + 16 mm + Plt 4 mm
LT: 97%	U-value: < 0.9 W/m2. K	LT: >=82%	LT: 71%	LT: 80%
LR: 1%	Anti-fog: 180s under 25° C 60% R.H.	Emissivity: 0.03	U-value: 1.0	U-value: 1.1

FACADE PRODUCTS

Average performance values of DGU (6+12+6 mm) according to the standards ISO 9050 m1 and EN 673.¹

PRODUCT	Aesthetics in exterior reflection	Coating position	Light Transmittance LT (%)	Solar Factor g-value	Shading Coefficient SC	External Light Reflectance LRe (%)	Internal Light Reflectance LRI (%)	U-Value (EN 673) W/(m².K)		Processing		Maximum size (cm)
								12 mm air	16 mm argon	Annealed coating	Temperable coating (one single stock)	
HIGH LIGHT TRANSMISSION LOW-E GLASS (DGU 6+12+6 mm)												
ECLAZ II	Neutral	# 3	82	0,67	0,77	11	11	1,6	1,1	ECLAZ		600x321
ECLAZ ONE II	Neutral	# 3	79	0,58	0,67	15	16	1,5	1,0	ECLAZ ONE		600x321
PLANITHERM XN II	Neutral	# 3	81	0,61	0,70	12	13	1,6	1,1	XN		1800x321
PLANITHERM XN II DIAMANT	Extra clear	# 3	83	0,63	0,73	12	13	1,6	1,1	XN DIAMANT		1800x321
PLANITHERM 1.16 II	Neutral	# 3	78	0,60	0,69	12	12	1,7	1,2	1,16		600x321
PLANITHERM 1.3 T	Neutral	# 3	75	0,62	0,71	12	12	1,8	1,3			600x321
PLANITHERM LUX II	Neutral	# 3	79	0,67	0,77	12	13	1,7	1,3	PLANITHERM LUX		600x321
NO EGDE DELETION LOW-E GLASS (DGU 6+12+6 mm)												
PLANITHERM HN annealed	Neutral	# 3	69	0,54	0,63	13	12	1,8	1,4			600x321
PLANITHERM HN tempered	Neutral	# 3	75	0,55	0,64	12	13	1,8	1,4			600x321
LOW-E ON TINTED GLASS (DGU 6+12+6 mm)												
PLANITHERM 1.3 T on green	Green	# 2	62	0,38	0,43	9	11	1,8	1,3			600x321
PLANITHERM 1.3 T on blue	Blue	# 2	48	0,34	0,39	7	11	1,8	1,3			600x321
PLANITHERM 1.3 T on bronze	Bronze	# 2	41	0,34	0,40	7	10	1,8	1,3			600x321
FOUR SEASONS LOW-E GLASS (DGU 6+12+6 mm)												
PLANISTAR SUN	Neutral	# 2	71	0,36	0,41	14	15	1,5	1,0	PLANISTAR SUN		600x321
PLANITHERM 4S EVO	Neutral	# 2	60	0,37	0,42	22	26	1,5	1,0	4S EVO		600x321
SELF-CLEANING GLASS (DGU 6+12+6 mm)												
BIOCLEAR II	Neutral	#1	79	0,75	0,86	18	17	2,8	2,6	BIOCLEAR +		600x321

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

Average performance values of DGU (6+12+6 mm) according to the standards ISO 9050 m1 and EN 673.¹

¹ DGU values calculated with PLANILUX as inner pane, except for extra clear appearance for which DIAMANT is used, and coatings produced only in Europe for which PLANICLEAR is used. - ² Validation should be taken with digital printing inks and enamels - ³ COOL-LITE SKN 154: LRI=22% - ⁴ COOL-LITE KG 137 annealed : LRe=30%, LRI=29%

PRODUCT	Light Transmittance LT (%)	Solar Factor g-value	Shading Coefficient SC	Selectivity LT/g	External Light Reflectance LRe (%)	Internal Light Reflectance LRI (%)	U-Value (EN 673) W/(m².K)		Possible use as single glazing (coating on surface #)	Processing					Maximum size (cm)
							12 mm air	16 mm argon		Annealed coating	Temperable coating (one single stock)	Lamination (coating on #2 inside the laminate)	Processing Bending	Processing Screen-printing and enamelling ²	
NEUTRAL															
COOL-LITE XTREME 70/33 II	70	0.31	0.36	2.25	11	13	1.5	1.0							1800x321
COOL-LITE XTREME 60/28 II	60	0.27	0.31	2.21	14	17	1.5	1.0		XTREME 60/28					1800x321
COOL-LITE XTREME 50/22 II	47	0.21	0.24	2.24	16	18	1.5	1.0							1800x321
COOL-LITE SKN 176 II	70	0.35	0.40	1.99	13	15	1.5	1.0		SKN 176					1800x321
COOL-LITE SKN 165 II	60	0.32	0.36	1.88	16	17	1.5	1.0		SKN 165		•			1800x321
COOL-LITE SKN 154 II ³	50	0.26	0.30	1.92	18	26	1.5	1.0		SKN 154		•	•		1800x321
COOL-LITE SKN 144 II	40	0.23	0.26	1.74	20	12	1.6	1.1							600x321
COOL-LITE KNT 164	57	0.45	0.51	1.27	14	10	1.9	1.5				•	•	•	600x321
COOL-LITE KNT 155	47	0.36	0.42	1.31	17	10	1.9	1.5				•	•	•	600x321
COOL-LITE KNT 140	37	0.27	0.31	1.37	23	12	1.8	1.3				•	•	•	600x321
COOL-LITE KN 166 II	60	0.37	0.42	1.62	22	25	1.5	1.0							600x321
COOL-LITE KN 165 II	59	0.40	0.46	1.46	19	13	1.7	1.2							600x321
COOL-LITE KN 152 II	49	0.33	0.38	1.47	25	14	1.7	1.2							600x321
COOL-LITE E 150 II	46	0.43	0.49	1.07	15	17	2.6	2.3	#2						600x321
COOL-LITE E 125 II	26	0.24	0.27	1.08	29	15	2.0	1.6	#2						600x321
COOL-LITE ST 167	60	0.49	0.67	1.02	23	23	2.8	2.6	#2			•	•	•	600x321
COOL-LITE ST 150	46	0.46	0.53	1.01	20	22	2.8	2.6	#2			•	•	•	600x321
EXTRA CLEAR															
COOL-LITE XTREME 70/33 II DIAMANT	71	0.32	0.36	2.22	11	13	1.5	1.0							1800x321
COOL-LITE XTREME 60/28 II DIAMANT	62	0.27	0.31	2.29	15	17	1.5	1.0		XTREME 60/28 DIAMANT					1800x321
COOL-LITE XTREME 50/22 II DIAMANT	48	0.21	0.24	2.29	16	18	1.5	1.0							1800x321
COOL-LITE SKN 076 II	71	0.36	0.41	1.97	13	15	1.5	1.0		SKN 076					1800x321
COOL-LITE SKN 065 II	62	0.33	0.38	1.88	17	19	1.5	1.0		SKN 065		•			1800x321
COOL-LITE SKN 054 II	53	0.28	0.32	1.89	18	23	1.5	1.0		SKN 054		•			1800x321
COOL-LITE SKN 044 II	42	0.23	0.27	1.81	20	15	1.6	1.1		SKN 044					600x321
COOL-LITE KN 066 II	62	0.38	0.43	1.63	22	26	1.5	1.0							600x321
SILVER															
COOL-LITE SKS 146 II	42	0.22	0.26	1.89	30	18	1.6	1.1							600x321
COOL-LITE KS 150 II	46	0.33	0.38	1.38	29	16	1.6	1.2							600x321
COOL-LITE KS 050 II	47	0.41	0.41	1.34	30	17	1.6	1.2							600x321
COOL-LITE KS 147	43	0.34	0.34	1.48	42	37	1.6	1.2		KS 147					600x321
COOL-LITE KS 146 II	42	0.32	0.32	1.50	33	19	1.6	1.2							600x321
COOL-LITE KS 145 II	40	0.31	0.31	1.48	33	26	1.6	1.1							600x321
COOL-LITE KS 138 II	36	0.29	0.29	1.44	40	19	1.6	1.2							600x321
COOL-LITE ST BRIGHT SILVER PLANICLEAR	62	0.72	0.72	1.00	34	34	2.8	2.6	#2			•	•	•	1800x321
COOL-LITE ST BRIGHT SILVER DIAMANT	63	0.75	0.75	0.98	35	35	2.8	2.6	#2			•	•	•	1800x321
COOL-LITE ST 120	18	0.25	0.25	0.83	32	30	2.6	2.4	#2			•	•	•	600x321
COOL-LITE ST 108	7	0.11	0.11	0.74	44	39	1.9	1.4	#2			•	•	•	600x321
ANTELIO SILVER	62	0.73	0.73	0.97	34	34	2.8	2.6	#1 or #2			•	•	•	600x321
MIRASTAR	3	0.10	0.11	0.29	55	59	2.0	1.6	#2			•	•	•	600x321
GREY															
COOL-LITE KN 130 II	31	0.24	0.28	1.29	21	13	1.8	1.4							600x321
COOL-LITE ST 136	34	0.34	0.40	0.99	23	23	2.7	2.5	#2			•	•	•	600x321
REFLECTASOL DARK GREY	4	0.25	0.29	0.18	5	52	2.8	2.6	#2			•	•	•	600x321
GOLD															
COOL-LITE KG 137 tempered	35	0.29	0.33	1.20	33 ⁴	32 ⁴	1.7	1.2				•			600x321
REFLECTASOL LIGHT GOLD	30	0.46	0.53	0.65	47	53	2.8	2.6	#2			•		•	321x225
BLUE-GREEN															
COOL-LITE KBT 440	30	0.22	0.25	1.36	18	16	2.7	2.5				•	•	•	600x321
COOL-LITE KB 430 II	21	0.17	0.19	1.22	16	22	1.7	1.3							600x321
COOL-LITE STB 436	27	0.26	0.29	1.04	15	20	2	2.5	#2			•			600x321
COOL-LITE STB 420	17	0.19	0.22	0.87	16	32	2.7	2.4	#2			•	•	•	600x321

Average performance values of DGU (6+12+6 mm) according to the standards ISO 9050 m1 and EN 673.¹

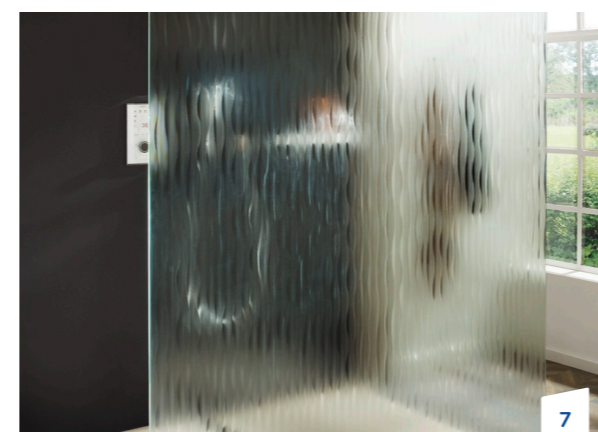
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PRODUCT	Light Transmittance LT (%)	Solar Factor g-value	Shading Coefficient SC	Selectivity LT/g	External Light Reflectance LRe (%)	Internal Light Reflectance LRI (%)	U-Value (EN 673) W/(m².K)		Possible use as single glazing (coating on surface #)	Processing					Maximum size (cm)
							12 mm air	16 mm argon		Annealed coating	Temperable coating (one single stock)	Lamination (coating on #2 inside the laminate)	Processing Bending	Processing Screen-printing and enamelling ²	
GREEN															
COOL-LITE SKN 465 II	50	0,26	0,30	1,91	12	16	1.5	1.0							600x321
COOL-LITE SKN 454 II	42	0,22	0,25	1,89	14	26	1.5	1.0							600x321
COOL-LITE SKN 444 II	33	0,19	0,22	1,75	15	12	1.6	1.1							600x321
COOL-LITE KNT 464	47	0,31	0,36	1,53	11	10	1.9	1.5			•	•	•		600x321
COOL-LITE KNT 455	39	0,27	0,30	1,44	13	10	1.9	1.5			•	•	•		600x321
COOL-LITE KNT 440	31	0,21	0,24	1,46	17	12	1.8	1.3			•	•	•		600x321
COOL-LITE KN 430 II	26	0,19	0,22	1,35	16	13	1.8	1.4							600x321
COOL-LITE KS 446 II	35	0,22	0,25	1,58	24	19	1.6	1.2							600x321
COOL-LITE KS 438 II	30	0,20	0,23	1,49	29	19	1.6	1.2							600x321
COOL-LITE E 450 II	37	0,30	0,34	1,23	12	17	2.0	1.6	#2						600x321
COOL-LITE E 425 II	21	0,18	0,20	1,17	21	15	2.6	2.3	#2						600x321
COOL-LITE ST 467	50	0,40	0,46	1,25	17	23	2.8	2.6	#2		•	•	•	•	600x321
COOL-LITE ST 450	38	0,33	0,38	1,16	15	21	2.8	2.6	#2		•	•	•	•	600x321
COOL-LITE ST 436	28	0,26	0,30	1,07	17	22	2.7	2.5	#2		•	•	•	•	600x321
COOL-LITE ST 420	15	0,18	0,21	0,84	24	30	2.6	2.4	#2		•	•	•	•	600x321
COOL-LITE ST 408	6	0,10	0,11	0,61	32	39	1.9	1.4	#2		•	•	•	•	600x321
REFLECTASOL 'H GREEN'	24	0,30	0,34	0,81	34	53	2.8	2.6	#2		•	•	•	•	600x321
BLUE															
COOL-LITE SKN 765 II	39	0,23	0,26	1,68	9	16	1.5	1.0							600x321
COOL-LITE SKN 754 II	32	0,20	0,23	1,61	10	25	1.5	1.0							600x321
COOL-LITE SKN 744 II	26	0,17	0,20	1,52	11	12	1.6	1.1							600x321
COOL-LITE KS 746 II	27	0,20	0,23	1,35	16	19	1.6	1.2							600x321
COOL-LITE KS 738 II	23	0,18	0,21	1,28	19	19	1.6	1.2							600x321
COOL-LITE KBT 140	36	0,29	0,34	1,25	24	17	1.8	1.4			•	•	•	•	600x321
COOL-LITE KB 130 II	25	0,22	0,25	1,14	21	22	1.7	1.3			•	•	•	•	600x321
COOL-LITE KNT 764	37	0,29	0,33	1,27	8	9	1.9	1.5			•	•	•	•	600x321
COOL-LITE KNT 755	30	0,24	0,28	1,26	10	10	1.9	1.5			•	•	•	•	600x321
COOL-LITE KNT 740	24	0,19	0,22	1,25	12	12	1.8	1.3			•	•	•	•	600x321
COOL-LITE KN 730 II	20	0,18	0,20	1,11	12	13	1.8	1.4							600x321
COOL-LITE E 750 II	29	0,27	0,31	1,07	9	16	2.6	2.3	#2						600x321
COOL-LITE E 725 II	16	0,16	0,19	1,00	14	15	2.0	1.6	#2						600x321
COOL-LITE STB 136	20	0,36	0,41	0,92	19	20	2.7	2.5	#2		•	•	•	•	600x321
COOL-LITE STB 120	20	0,24	0,27	0,84	21	32	2.7	2.4	#2		•	•	•	•	600x321
COOL-LITE ST 767	39	0,37	0,42	1,04	12	22	2.8	2.6	#2		•	•	•	•	600x321
COOL-LITE ST 750	30	0,30	0,35	0,99	11	21	2.8	2.6	#2		•	•	•	•	600x321
COOL-LITE ST 736	22	0,24	0,28	0,90	12	22	2.7	2.5	#2		•	•	•	•	600x321
COOL-LITE ST 720	12	0,17	0,20	0,69	16	30	2.6	2.4	#2		•	•	•	•	600x321
COOL-LITE ST 708	5	0,10	0,11	0,47	21	39	1.9	1.4	#2		•	•	•	•	600x321
REFLECTASOL BLUE	19	0,29	0,33	0,64	22	52	2.8	2.6	#2		•	•	•	•	321x225
BRONZE															
COOL-LITE SKN 265 II	33	0,20	0,23	1,65	8	16	1.5	1.0							600x321
COOL-LITE SKN 254 II	27	0,17	0,20	1,61	8	25	1.5	1.0							600x321
COOL-LITE SKN 244 II	22	0,16	0,18	1,37	9	11	1.6	1.1							600x321
COOL-LITE KNT 264	31	0,29	0,34	1,08	7	9	1.9	1.5			•	•	•	•	600x321
COOL-LITE KNT 255	26	0,24	0,28	1,07	8	10	1.9	1.5			•	•	•	•	600x321
COOL-LITE KNT 240	20	0,19	0,22	1,06	10	12	1.8	1.3			•	•	•	•	600x321
COOL-LITE KN 230 II	17	0,17	0,20	0,99	10	13	1.8	1.4							600x321
COOL-LITE KS 246 II	23	0,19	0,22	1,20	13	18	1.6	1.2							600x321
COOL-LITE KS 238 II	20	0,17	0,20	1,15	15	19	1.6	1.2							600x321
COOL-LITE E 250 II	25	0,29	0,34	0,86	8	16	2.6	2.3	#2						600x321
COOL-LITE E 225 II	14	0,17	0,20	0,82	12	15	2.0	1.6	#2						600x321
COOL-LITE ST 267	33	0,41	0,47	0,80	10	22	2.8	2.6	#2		•	•	•	•	600x321
COOL-LITE ST 250	25	0,33	0,38	0,77	9	21	2.8	2.6	#2		•	•	•	•	600x321
COOL-LITE ST 236	18	0,26	0,29	0,70	10	22	2.7	2.5	#2		•	•	•	•	600x321
COOL-LITE ST 220	10	0,18	0,21	0,55	13	30	2.6	2.4	#2		•	•	•	•	600x321
COOL-LITE ST 208	4	0,10	0,11	0,40	16	39	1.9	1.4	#2		•	•	•	•	600x321
REFLECTASOL BRONZE	16	0,35	0,40	0,47	17	52	2.8	2.6	#2		•	•	•	•	321x225

GLASS SOLUTIONS FOR DECORATION & DESIGN

Great living places often start with a beautiful interior design. Transparent, hygienic, long-lasting, colourful and even “active” glass brings so many creativity-unleashing benefits.

With our solutions, we help our customers and our partners imagine the greatest kitchens, bathrooms or workplaces.



1. TEXGLASS

A line of decorative laminated glassware with fabrics in it, evoking sensuality, pure beauty and refinement.

2. ART GLASS CONTRAST

Hand blown glass, with a colorful appearance offering a unique, artistic and highly aesthetic finish.

3. VIEWGLASS

digitally printed glass to create customized designs.

4. STADIP COLOR

Colored laminated safety glass.

5. MIRASTAR

Play of light and reflections. Depending on lighting conditions, acts like an opaque mirror or as transparent glazing.

6. MASTER-SOFT

Source of light and softness. A modern design for maximum of brightness while maintaining privacy.

7. WAVELINE FLUID

Play of transparency and translucency. Gentle, wave-like flow, following the trend for a dynamic and natural appearance.

8. TIMELESS

An anti-corrosion glass for a lasting transparency guaranteed 10 years.

9. PLANILAQUE COLOR-IT

More than 35 colors of lacquered glass, allowing perfect customization of interiors.

DID YOU KNOW JUST HOW MUCH COMFORT OUR SOLUTIONS CAN BRING?

WE DON'T JUST PROVIDE GLASS SOLUTIONS:
we help to create great living places and improve daily life!



Solar control



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