


SAINT-GOBAIN
GLASS

SGG COOL-LITE® ST

*Solar control right
for you!*



SAINT-GOBAIN GLASS COMFORT



Landesbank Baden-Württemberg, Stuttgart scg COOL-LITE ST 150

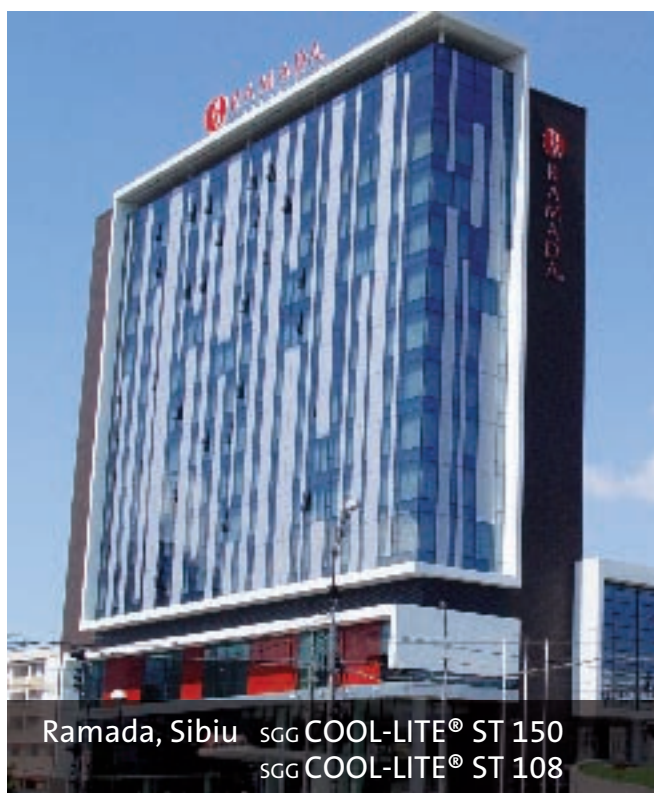
SGG COOL-LITE® ST

Solar control right for you!

Description

SGG COOL-LITE ST is a solar control glass manufactured by depositing a coating of metallic oxides by magnetically enhanced cathodic sputtering under vacuum conditions onto clear float SGG PLANILUX or body tinted glass SGG PARSOL GREEN. The manufacturing process and type of materials with which the glass is coated ensure that this

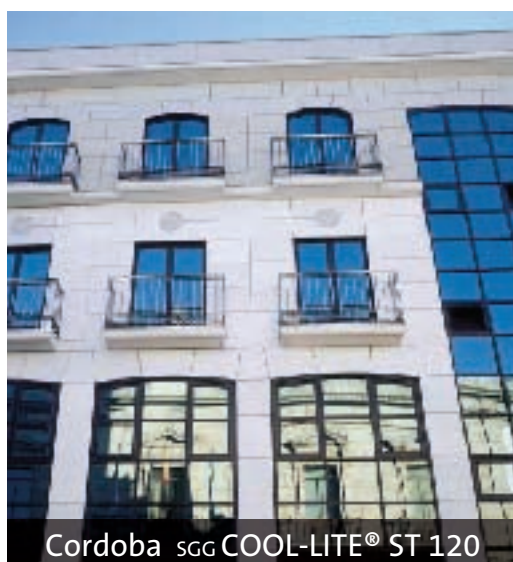
coating offers excellent durability and resistance during handling. These qualities enable this coated glass to be processed (tempered, laminated, lacquered) while still retaining its aesthetic and technical benefits. SGG COOL-LITE ST can be used in single or double glazing, with the coating on face 2.



Applications

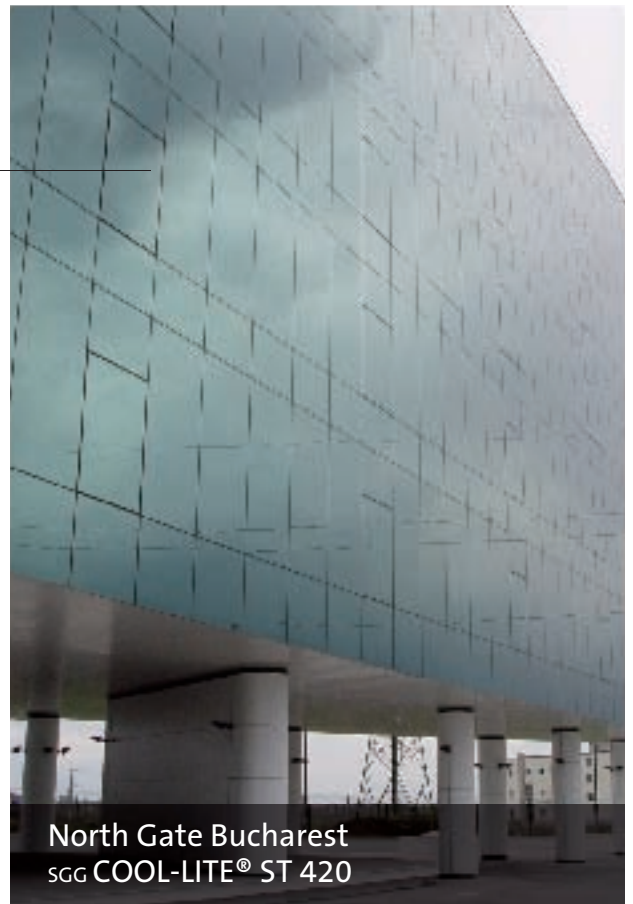
SGG COOL-LITE ST is a high performance solar control glass that offers numerous architectonic flexibilities to architects. These glasses are suitable for all types of buildings, for great projects and for small buildings, such as:

- Office buildings
- Stores
- Schools
- Industrial buildings
- Houses
- Facades
- Roofs for winter gardens
- Double skin applications



Range

Appearance in reflection	Base glass	
	SGG Planilux	SGG Parsol Green
	Clear float glass	Green body tinted float glass
Neutral – slightly blue	ST 167	
Light sky blue	ST 150	
Light blue	ST 136	
Silver blue	ST 120	
Bright silver blue	ST 108	
Metallic blue	STB 136	
Metallic silver blue	STB 120	
Green – slightly blue		ST 467
Light blue green		ST 450
Blue green		ST 436
Silver blue green		ST 420
Bright silver blue green		ST 408
Metallic blue green		STB 436
Aquamarine		STB 420

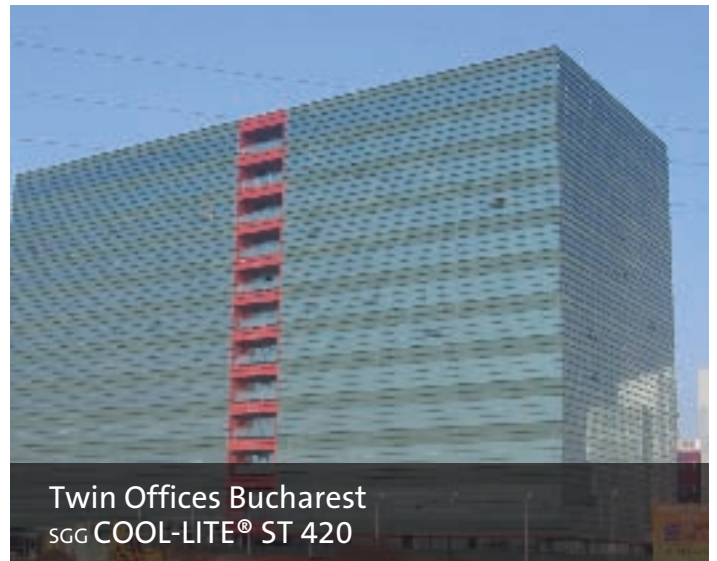


Processing

Due to the extremely resistant coating SGG COOL-LITE ST are glasses easy to process.

They can be:

- Curved
- Tempered
- Laminated
- Enameled
- Screen printed



Double glazing units assembling

Double glazing units with SGG COOL-LITE ST have to be assembled accordingly with the standards in use and the general processing instructions.

SGG COOL-LITE ST150 can be used in single or double glazing, with the coating on face 2 and does not require edge-deletion.

The adhesives used for the assembly in double glazed units or for the structural assembly must be compatible with the SGG COOL-LITE ST deposit.

Advantages

Due to its coating with excellent durability and resistance, SGG COOL-LITE ST glass is very easy to process and can be stored in normal conditions, according to the recommendations of Saint-Gobain Glass.

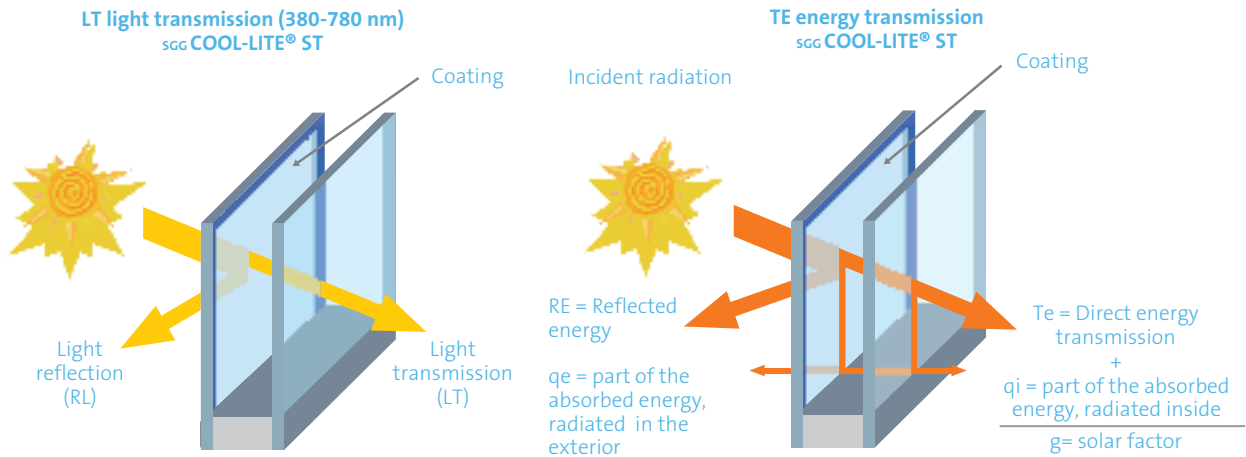
The wide range of reflected colors allows the use of SGG COOL-LITE ST glasses for any type of facades or residences.

The exterior appearance of the facade with

SGG COOL-LITE ST glass is very dynamic offering personality to the building.

By filtering light this glass offers a pleasant environment inside your house or office.

The most important quality of SGG COOL-LITE ST glass is the very good solar protection. Thus, the solar energy that penetrates the interior is reduced, and you make considerable saving with the costs for air conditioning.



SGG COOL-LITE ST can be easily combined with other types of glass to offer different functions:

- Thermal insulation (for example, with SGG PLANTHERM ULTRA N)
- Acoustic insulation (with SGG STADIP SILENCE)
- Security (with SGG STADIP or SGG STADIP PROTECT)
- Self-cleaning (with SGG BIOCLEAN).



Performances

SGG COOL-LITE ST		ST 167	ST 150	ST 136	ST 120	ST 108	ST 108*	STB 136	STB 120
Light factors (EN 410)									
LT Transmission	%	59	45	33	18	7	7	32	19
External reflection, R _{ext}	%	20	19	23	32	44	44	17	22
Internal reflection, R _{int}	%	20	18	19	26	35	39	18	27
UV, TUV Transmission		22	17	13	9	2	3	13	7
Energy factors (EN 410)									
Direct transmission, T _E	%	40	30	22	12	5	6	21	13
External reflection, R _{ext}	%	25	20	20	27	38	38	17	20
Absorption, ext. A1	%	28	45	55	59	56	56	58	65
Absorption, int. A2	%	7	5	4	2	1	1	4	2
Solar factor, g		0.47	0.37	0.27	0.17	0.08	0.10	0.27	0.18
Shading coefficient (EN 410)		0.55	0.43	0.32	0.19	0.09	0.11	0.31	0.21
Thermal insulation coefficient, U (EN 673)									
Air	%	1.4	1.4	1.4	1.4	1.3	1.7	1.4	1.4
Argon 90%	%	1.1	1.1	1.1	1.1	1.1	1.4	1.1	1.1

DGU: 6mm SGG COOL-LITE, face #2 / 16 / 4mm SGG Planitherm UltraN, face #3

* DGU, without low-E: 6mm SGG COOL-LITE, face #2 / 16 / 4mm SGG Planilux

SGG COOL-LITE ST		ST 467	ST 450	ST 436	ST 420	ST 408	ST 408*	STB 436	STB 420
Light factors (EN 410)									
LT Transmission	%	48	37	27	15	6	6	27	16
External reflection, R _{ext}	%	15	15	17	23	32	32	13	16
Internal reflection, R _{int}	%	19	18	19	26	35	39	18	27
UV, TUV Transmission		8	6	5	3	<1	1	5	3
Energy factors (EN 410)									
Direct transmission, T _E	%	24	19	14	8	3	3	13	8
External reflection, R _{ext}	%	11	10	11	13	17	17	10	11
Absorption, ext. A1	%	62	69	74	78	79	79	76	80
Absorption, int. A2	%	3	2	2	1	0	0	2	1
Solar factor, g		0.30	0.24	0.19	0.12	0.07	0.08	0.18	0.13
Shading coefficient (EN 410)		0.35	0.28	0.22	0.14	0.08	0.10	0.21	0.15
Thermal insulation coefficient, U (EN 673)									
Air	%	1.4	1.4	1.4	1.4	1.3	1.7	1.4	1.4
Argon 90%	%	1.1	1.1	1.1	1.1	1.1	1.4	1.1	1.1

DGU: 6mm SGG COOL-LITE, face #2 / 16 / 4mm SGG Planitherm UltraN, face #3

* DGU, without low-E: 6mm SGG COOL-LITE, face #2 / 16 / 4mm SGG Planilux

Norms and regulations

SGG COOL-LITE ST glasses meets the requirements of the European standard EN 1096-1 and 1096-2 and are CE marked.

Partner of Saint-Gobain Glass Romania


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GLASS

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