

# COOL-LITE® ST



## Description

The manufacturing process and form of materials with which the glass is coated ensure that this coating offers excellent stability and resistance during handling. These qualities enable this coated glass to be processed (tempered, laminated, lacquered) while still retaining its aesthetic and technical benefits.

## APPLICATION

COOL-LITE® ST is a high performance solar control glass which offers architects numerous architectural flexibility. Such glasses are ideal for all styles of structures, large projects and small buildings, such as:

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

## BENEFITS

To give different functions, COOL-LITE® ST can be easily combined with other types of glass:

- Thermal insulation (with PLANTHERM)

- Acoustic insulation (with STADIP SILENCE)
- Security (with STADIP or STADIP PROTECT)
- Self-cleaning (with BIOCLEAN)

## RANGE

COOL-LITE® ST are available in :

- Sizes: Jumbo size (PLF) 6000 x 3210mm
- Split sizes on request
- Standard thickness: 4-6-8mm (other on request)

## PROCESSING

Thanks to the highly resistant coating COOL-LITE® ST are glasses easy to process. They can be:

- Curved
- Tempered
- Laminated
- Enameled
- Screen printed
- Used in single or double glazing, with the coating on face 2
- Does not require edge-deletion
- Used annealed or tempered, one version for two applications !

*Refers to the processing guidances of each product for more details about the processing conditions or contact the local Technical Support Manager.*

## PERFORMANCES

The tables below detail the performances of our coatings. Values are given for DGU with clear substrate Planiclear. 3 tables are available :

- DGU 6+12+6 mm with coating on surface #2, according to the standards ISO 9050 m1 / EN 6732
- DGU 6+12+6 mm with coating on surface #2, according to the standards NFRC 100
- DGU 6+16+4 mm with coating on surface #2, according to the standards EN 410, EN 673 and EN ISO 140-3/717-1

*Saint-Gobain Glass Glass reserves the right to change product performance features without notice or obligation. Other colors are available. Contact your Saint-Gobain sales representative to check the availability of each product in your country.*

DGU 6-12-6 / Standards ISO 9050 m1 / EN 6732

PRODUCT	Light	Solar	Shading	Selectivity LT/g	External	Internal	U-Value	U-Value	Process
	Transmittance LT (%)	Factor g	Coefficient SC		Light Reflectance LRe (%)	Light Reflectance LRi (%)	(EN 673) W/(m <sup>2</sup> .K) 12mm air	(EN 673) W/(m <sup>2</sup> .K) 16mm argon	
ST 108	7	0.10	0.11	0.70	44	39	1.86	1.44	tempera
ST 120	18	0.21	0.25	0.86	32	30	2.63	2.38	tempera
ST 136	33	0.35	0.40	0.94	23	22	2.75	2.51	tempera
ST 150	46	0.47	0.54	0.98	20	21	2.80	2.57	tempera

<b>PRODUCT</b>	<b>Light Transmittance LT (%)</b>	<b>Solar Factor g</b>	<b>Shading Coefficient SC</b>	<b>Selectivity LT/g</b>	<b>External Light Reflectance LRe (%)</b>	<b>Internal Light Reflectance LRi (%)</b>	<b>U-Value (EN 673) W/(m<sup>2</sup>.K) 12mmair</b>	<b>U-Value (EN 673) W/(m<sup>2</sup>.K) 16mm argon</b>	<b>Processing</b>
ST 167	60	0.60	0.69	1.00	22	23	2.80	2.57	tempera
ST BRIGHT SILVER	63	0.65	0.75	0.98	35	35	2.8	2.6	tempera

DGU 6-12-6 / Standard NFRC 100

<b>PRODUCT</b>	<b>Light Transmittance LT (%)</b>	<b>Solar Factor g</b>	<b>Shading Coefficient SC</b>	<b>Selectivity LT/g</b>	<b>External Light Reflectance LRe (%)</b>	<b>Internal Light Reflectance LRi (%)</b>	<b>U-Value (EN 673) W/(m<sup>2</sup>.K) 12mm air</b>	<b>U-Value (EN 673) W/(m<sup>2</sup>.K) 16mm argon</b>	<b>Processing</b>
ST 108	7	0.11	0.12	0.64	44	39	1.88	1.68	tempera
ST 120	18	0.23	0.27	0.78	32	30	2.51	2.36	tempera
ST 136	34	0.36	0.41	0.93	23	23	2.62	2.48	tempera
ST 150	46	0.48	0.55	0.96	20	22	2.67	2.53	tempera
ST 167	60	0.60	0.69	1.00	22	23	2.66	2.53	tempera
ST BRIGHT SILVER	63	0.66	0.76	0.95	34	34	2.69	2.55	tempera

DGU 6-16-4 / Standards ISO 9050 m1 / EN 6732

<b>PRODUCT</b>	<b>Light Transmittance LT (%)</b>	<b>Solar Factor g</b>	<b>Shading Coefficient SC</b>	<b>Selectivity LT/g</b>	<b>External Light Reflectance LRe (%)</b>	<b>Internal Light Reflectance LRi (%)</b>	<b>U-Value (EN 673) W/(m<sup>2</sup>.K) 16mm argon</b>	<b>Processing</b>	<b>Color reflect</b>
ST 108	8	0,09	0,10	0,88	44	37	1,4	Temperable silver	
ST 120	19	0,17	0,20	1,12	32	26	1,1	Temperable silver	
ST 136	34	0,28	0,32	1,21	23	20	1,1	Temperable grey	
ST 150	46	0,38	0,44	1,21	19	19	1,1	Temperable neutra	
ST 167	61	0,61	0,70	1,01	22	24	1,1	Temperable neutra	
ST BRIGHT SILVER	61	0,51	0,58	1,20	32	31	1,1	Temperable silver	

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