

# SGG CLIMAPLUS® DESIGN

Decorative low-emissivity doubleglazed units

Technical Sheet
United Kingdom

## sgg CLIMAPLUS® DESIGN

### Decorative low-emissivity double-glazed units

#### Description

sag CLIMAPLUS DESIGN double-glazed units combine enhanced thermal insulation with decoration and vision control. One of the two panes of the double-glazed unit is a glass which is either transparent, translucent, body-tinted or pattered, from the SAINT-GOBAIN GLASS DESIGN range.

The other component is a low-emissivity glass from the sgg PLANITHERM range, for thermal insulation.

sag CLIMAPLUS DESIGN can also bring the additional function of safety by using toughened products such assag OPALIT or sag SERALIT EVOLUTION and security by using laminated products such as sag STADIP COLOR.

sca CLIMAPLUS DESIGN is manufactured in accordance with the SAINT-GOBAIN GLASS CLIMALIT process whereby two panes of glass are assembled vertically on either side of a hollow aluminium spacer bar filled with desiccant, then hermetically sealed using the latest dual seal technology.

If the glazed unit does not incorporate low-emissivity glass, it is known as sog CLIMALIT DESIGN.

#### **Applications**

- New-build or refurbishment projects.
- Vision area glazing, partitions, screens, spandrels, etc.
- Residential buildings or in the home: windows, exterior doors.
- Office blocks and public buildings: façades and overhead glazing.

#### Advantages

In addition to its low-emissivity properties (see "scg CLIMAPLUS"), scg CLIMAPLUS DESIGN double-glazed units offer many advantages depending on the type of decorative glass used.

#### sgg CLIMAPLUS DESIGN: with a translucent appearance

Using a decorative glass such as SGG MASTERGLASS, SGG DECORGLASS, SGG SATINOVO, SGG OPALIT EVOLUTION, SGG STADIP COLOR translucent or sandblasted, offers the following advantages:

- guaranteed privacy in bathrooms, kitchens, bedrooms, hospital wards, meeting rooms, etc.
- maximum light levels.

Each product provides a unique appearance whilst creating a gentle diffused light.

#### saa CLIMAPLUS DESIGN with logos, manifestation and patterns

Choosing sgg SERALIT EVOLUTION as a component within the double-glazed unit provides:

- privacy for interior rooms
- vision to the exterior
- distinctive design features.

#### sgg CLIMAPLUS DESIGN with coloured translucent appearance

Glasses from the sog DECORGLASS, sog STADIP COLOR and sog PARSOL ranges add colour to any application.

#### Range

Examples of sgg DESIGI	N	
Effect	Decorative glass	Low-emissivity glass
Translucent	sgg DECORGLASS	
	sgg MASTERGLASS	
	SGG OPALIT EVOLUTION	
	SGG SATINOVO	
	sgg STADIP COLOR diffusa	Dradust from the see DI ANITHEDAN romes
	Sand-blasted glass	Product from the sgg PLANITHERM range (with coating on face 2 or 3)
		(With coating on face 2 of 3)
Logos and designs	SGG SERALIT EVOLUTION	
Tinted	SGG DECORGLASS tinted	
	sgg PARSOL	
	sgg STADIP COLOR	

Numerous compositions are available. Depending on the nature of the product, it is possible to place the decorative pattern or processed face inside the double-glazed unit (face 2 or 3) or on the outside (inner side of the building) on face 4. Please contact SAINT-GOBAIN GLASS for further details.

#### Performance

sgg CLIMALIT DESIGN / sgg	CLIMAPLUS DI	ESIGN						
Double-glazing								
External pane			sgg Planilux		sgg PLAN	THERM TOT	AL	
Internal pane (1)		SGG MASTERGLASS	SGG STADIP COLOR 8.8mm	SGG SATINOVO	SGG MASTERGLASS	SGG STADIP COLOR 8.8mm	SGG SATINOVO	
Composition (2)		6 (12) 6	6 (12) 8.8	6 (12) 6	6 (16) 6	6 (16) 8.8	6 (16) 6	
Decorated surface	face	4	-	3	4	-	3	
Low-E coating position	face	-	-	-	2	2	2	
Light factor								
LT	%	78	42	77	76	41	76	
LRe	%	13	12	14	12	10	12	
LRi	%	14	7	14	12	6	12	
Energy factor								
Т	%	65	33	62	48	25	48	
Re	%	12	10	12	20	20	21	
A1	%	10	14	15	24	24	14	
A2	%	13	42	11	8	31	7	
Solar factor g		0,74	0,62	0,71	0,56	0,52	0,55	
Shading Coefficient		0,84	0,71	0,82	0,64	0,60	0,64	
U-value	W/(m².K)							
Air		2,8	2,8	2,8	1,4	1,4	1,4	
Argon 90%		-	-	-	1,2	1,2	1,2	

<sup>(1) -</sup>These values apply to sgg MASTER-CARRE, sgg MASTER-LIGNE, sgg MASTER-POINT, sgg MASTER-RAY and sgg MASTER -LENS: they are approximate values and may vary slightly for each product.

<sup>-</sup> sGG STADIP COLOR with a white diffusa: Laminated glass with a light diffusing, translucent PVB interlayer. The values indicated are in accordance with standard EN 140 even though this is not strictly applied to this glass. The values are an indication only. PVB RB 47 216500 (SGV 110).

<sup>(2)</sup> Two white diffusa interlayers.

Performance .../...

sca CLIMAPLUS DESIGN double-glazed units are nearly 3 times more thermally efficient than standard double-glazed units (U-value as low as 1.1 W/m2K compared to 2.9 W/m2K for a standard double-glazed unit).

The coloured products and coloured patterns also provide additional solar control properties.

sgg CLIMALIT DESIG	GN / sgg C	LIMAPLUS D	ESIGN		
				ouble-glazin	g
External pane		SGG SERALIT EVOLUTION WHITE			
Internal pane		sgg PLANILUX			
Composition		6 (12) 6	6 (12) 6	6 (12) 6	6 (12) 6
Enamel coverage (1)	%	30	30	50	50
Decorated surface	face	1	2	1	2
Low-E coating position	face	-	-	-	-
Light factor					
LT	%	63	63	51	51
LRe	%	26	19	33	22
LRi	%	20	25	23	32
UV	%	27	27	20	20
nergy factor					
T	%	52	52	44	44
Re	%	21	15	26	18
A1	%	19	25	23	31
A2	%	8	8	7	7
Solar factor g		0,59	0,60	0,51	0,52
Shading Coefficien		0,68	0,69	0,59	0,60
	W/(m².K)				
Air		2,8	2,8	2,8	2,8
Argon 90%	ó	-	i.=	-	-

(1) These are approximate values given for small detail patterns, homogenously covering the glass surface, screen printed with a standard white enamel. These values also depend on the manufacturing conditions.

**Installation Guidelines** 

To assist with the maintenance of sGG CLIMAPLUS DESIGN double-glazed units, it is not advisable to place decorated or processed face on face (towards the outside of the building).

Standards and Regulations

sag CLIMAPLUS DESIGN double-glazed nits meet the requirements of tandard BS EN 1279 and will receive the relevent CE marking when it is officially in force.



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