

# sgg CLIMAPLUS®

Enhanced thermally insulating (low-emissivity) double-glazed units

Technical Sheet
United Kingdom

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### Enhanced thermally insulating (low-emissivity) doubleglazed units

#### Description

sag CLIMAPLUS double-glazed units, incoporporate a low-emissivity coating on one face. This provides a significantly improved, or very low, U-value compared to ordinary sag CLIMALIT double glazing.

sag CLIMAPLUS 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.



Marie-Elisabeth-Lüders-Haus - Berlin, Germany Architect: SBA Stephan Braunfels Architekten

#### **Applications**

sca CLIMAPLUS double-glazed units can be used in numerous applications for both new-build and refurbishment projects:

- residential (apartment blocks and private houses):
- windows and patio doors
- rooflights
- doors
- conservatories, balconies and sun-rooms
- commercial (office blocks and public buildings):
- façades
- curtain walling
- glass roofs.

The sGG CLIMAPLUS range is designed to bring greater comfort and energy efficiency to any glazed area.

#### Advantages

- · Noticeable reduction in heating costs
- Improved comfort:
- virtually no cold spots near glazed areas
- maximum use of space
- reduced risk of condensation on inner panes.
- The potential for large areas of glazing whilst observing the constraints of current building regulations.
- Environmentally friendly by reducing energy consumption and the level of harmful CO2 emissions associated with the greenhouse effect.

These advantages are coupled with many other performance advantages:

- a high level of light transmittance which allows maximum natural light to pass through the glass
- neutral in both transmission and reflection
- option to combine other functions:
- self-cleaning effect
- acoustic insulation
- safety and security
- solar control
- decoration
- maintaining privacy.

sag CLIMAPLUS units enable most window frames to comply with the requirements of current building regulations.

#### Range

Standard sgg CLIMAPLUS units can incorporate a low-emissivity glass from the sgg PLANITHERM family and are available in the following configurations:

- sgg CLIMAPLUS argon (argon-filled cavity)
- sgg CLIMAPLUS air (air-filled cavity).

Many other glass types can be included in the sca CLIMAPLUS configuration to offer multi-functional glazing to meet a variety of needs.



Private residence

#### Performance

sgg CLIMAPLUS is nearly 3 times more thermally efficient than an ordinary double-glazed unit (U-value as low as 1.2 W/m2K compared to 2.9 W/m2K for a standard double-glazed unit).

Double-glazing					
External pane Internal pane		SGG PLANILUX SGG PLANITHERM TOTAL			
Thickness	mm	20	24	24	28
Weight	kg/m²	20	20	30	30
Low-E coating position	face	3	3	3	3
Light factors					
LT	%	79	79	77	77
LRe	%	12	12	11	11
LRi	%	12	12	11	11
UV	%	35	35	30	30
Energy factor					
Т	%	54	54	51	50
Re	%	23	23	21	21
A1	%	12	12	17	17
A2	%	10	10	12	12
Solar factor g		0,63	0,64	0,61	0,61
Shading Coefficient		0,73	0,73	0,70	0,70
U-value	W/(m <sup>2</sup> .K)				
Air		1,7	1,4	1,7	1,4
Argon 90 %		1,4	1,2(1)	1,3	1,2(1)
Sound reduction indices					
Rw	dB	31	29	33	34
C	dB	-1	-1	-1	-2
Ctr	dB	-4	-4	-3	-5
RA	dB	30	28	32	32
RA,tr	dB	27	25	30	29

(1) >93% argon filled cavity = 1.1 W/m2K

#### Standards and Regulations

sgg CLIMAPLUS double-glazed units meet the requirements of standard BS EN 1279 and will receive the relevant CE marking when it is officially in force.

SAINT-GOBAIN
GLASS

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