

SGG CLIMALIT®

Standard double-glazed units

Technical Sheet
United Kingdom

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Description

SGG CLIMALIT is a range of traditional double-glazed units manufactured by SAINT-GOBAIN GLASS SOLUTIONS network in accordance with the SAINT GOBAIN GLASS CLIMALIT process. These double-glazed units consist of two panes of glass that are assembled vertically on either side of a hollow aluminium spacer bar filled with desiccant to dry the air in the cavity. They are then hermetically sealed using the latest dual seal technology for enhanced performance and durability.



Private residence

Applications

SGG CLIMALIT double-glazed units can be used in numerous applications, both in the domestic or commercial sectors, for new-build or refurbishment projects:

- windows, patio doors, picture windows
- conservatories, balconies and sun-rooms
- windows and façades of non-residential buildings (office blocks, public buildings, etc.).

Advantages

Thermal insulation

- Reduced heating costs.
- Improved comfort near glazed areas:
i.e. less cold zones.

Maximum natural light

- High level of light transmittance through the glass.

Range

- Glass thickness: 4 to 12mm.
 - Colour of spacer bar: silver aluminium (standard). Other colours: please contact SAINT-GOBAIN GLASS.
 - Width of spacer bar: 6 to 20 mm.
- Other thicknesses on request.
- Special shapes: rectangular, bent, triangular, circular, curved, etc.
 - Georgian bars: list of standard colours on request, please contact SAINT-GOBAIN GLASS for details.

Performance

SGG CLIMALIT double glazing reduced heat loss through a window by up to 50% compared to ordinary single glazing (U-value approximately 2.9 W/m²K compared to 5.7 W/m²K).

Double-glazing						
External pane		SGG PLANILUX				
Internal pane		SGG PLANILUX				
Composition	mm	4 (6) 4	4 (12) 4	4 (16) 4	6 (12) 6	6 (12) 6
Thickness	mm	14	20	24	24	28
Weight	kg/m ²	20	20	20	30	30
Light factors						
LT	%	81	81	81	79	79
LRe	%	15	15	15	14	14
LRi	%	15	15	15	14	14
UV	%	44	44	44	38	38
Energy factor						
T	%	70	70	70	64	64
Re	%	13	13	13	12	12
A1	%	10	10	10	15	15
A2	%	7	7	7	10	10
Solar factor g		0,75	0,76	0,76	0,72	0,72
Shading Coefficient SC		0,87	0,87	0,87	0,83	0,83
U-value	W/(m ² .K)					
Air		3,3	2,8	2,7	2,8	2,7
Sound reduction indices						
Rw	dB	31	30	30	33	34
C	dB	-1	0	0	-1	-2
Ctr	dB	-3	-3	-3	-3	-5
RA	dB	30	30	30	32	32
RA,tr	dB	28	27	27	30	29

Performance .../...

Double glazing						
External pane		SGG BIOCLEAN (1)				
Internal pane		SGG PLANILUX				
Composition	mm	4 (6) 4	4 (12) 4	4 (16) 4	6 (12) 6	6 (12) 6
Thickness	mm	14	20	24	24	28
Weight	kg/m ²	20	20	20	30	30
Light factors						
LT	%	79	79	79	77	77
LRe	%	17	17	17	17	17
LRi	%	17	17	17	17	17
UV	%	39	39	39	33	33
Energy factor						
T	%	69	69	69	63	63
Re	%	16	16	16	15	15
A1	%	9	9	9	13	13
A2	%	7	7	7	10	10
Solar factor g		0,74	0,74	0,74	0,71	0,71
Shading Coefficient SC		0,85	0,85	0,85	0,81	0,81
U-value	W/(m ² .K)					
Air		3,3	2,8	2,7	2,8	2,7
Sound reduction indices (3)						
Rw	dB	31	30	30	33	34
C	dB	-1	0	0	-1	-2
Ctr	dB	-3	-3	-3	-3	-5
RA	dB	30	30	30	32	32
RA,tr	dB	28	27	27	30	29

Standards and Regulations

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



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