

SGG CLIMAPLUS®
ACOUSTIC

Acoustically insulating low-emissivity double-glazed units

Technical Sheet
United Kingdom

SGG CLIMAPLUS® ACOUSTIC

Acoustically insulating low-emissivity double-glazed units

Description

SGG CLIMAPLUS ACOUSTIC is a low-emissivity double-glazed unit which combines enhanced thermal insulation with acoustic insulation.

Two glass panes, of different thickness, are combined in a double-glazed unit to achieve a basic level of acoustic insulation. In order to minimise the risk of visual distortion of the glazing, as a result of variances in barometric pressure for example, the inner pane should be thinner than the outer pane.

One of the two SGG CLIMAPLUS ACOUSTIC glass panes is a low-emissivity coated glass from the SGG PLANITHERM family for enhanced thermal insulation properties. If the unit does not incorporate a low-emissivity glass, it is known as SGG CLIMALIT ACOUSTIC



Private residence

Applications

SGG CLIMAPLUS ACOUSTIC provides protection from everyday outside noise: street noise, road traffic, etc. It is suitable for public and private buildings, for either new-build or refurbishment projects and can be incorporated in any type of frame.

For protection from significant noise pollution (airplanes, trains, motorways, schools, etc.) it is recommended to use an SGG CLIMAPLUS SILENCE double-glazed unit with enhanced acoustic insulation.

Advantages

- Acoustic insulation: SGG CLIMAPLUS ACOUSTIC reduces the noise level of surrounding outside noise.
- Enhanced thermal insulation: SGG CLIMAPLUS ACOUSTIC reduces heating costs, improves comfort and is more environmentally friendly.
- SGG CLIMAPLUS ACOUSTIC has the same appearance as a standard SGG CLIMAPLUS unit.

Range

The three recommended standard compositions are:

- SGG CLIMAPLUS ACOUSTIC 4 (6) 6 mm
- SGG CLIMAPLUS ACOUSTIC 4 (6) 10mm
- SGG CLIMAPLUS ACOUSTIC 4 (12) 6 mm

One of the two panes is a low-emissivity glass from the SGG PLANITHERM family, however many other SGG CLIMAPLUS ACOUSTIC configurations are possible and can be subject to official acoustic measurement. Please contact SAINT-GOBAIN GLASS for details.

Performance

Acoustic insulation

The sound reduction performances and indices are measured in accordance with standard BS EN ISO 140-3 and are available as a measurement report which is issued by the approved laboratory.

For details of the enhanced acoustic insulation performances, see SGG CLIMAPLUS SILENCE.

Thermal insulation

For spectrophotometric and thermal values:

SGG CLIMAPLUS ACOUSTIC performance		
Composition	Total Thickness (mm)	Rw (C;Ctr)
4 (6) 6	16	34 (-1;-3)
4 (6) 10	20	34 (-1;-4)
4 (12) 6	22	34 (-1; -5)

SGG CLIMALIT ACOUSTIC /SGG CLIMAPLUS ACOUSTIC							
Double glazing							
External pane		SGG PLANILUX			SGG PLANILUX		
Internal pane (2)		SGG PLANILUX			SGG PLANITHERM TOTAL		
Composition (1)	mm	6 (6) 4	10 (6) 4	10 (12) 6	4 (12) 8	4 (16) 8	6 (12) 10
Thickness	mm	16	20	28	24	28	28
Weight	kg/m ²	25	35	40	30	30	30
Light factor							
LT	%	80	78	77	69	69	68
LRe	%	14	14	14	12	12	12
LRi	%	15	14	14	13	13	13
UV	%	41	35	33	10	10	9
Energy factor							
T	%	67	61	59	37	37	35
Re	%	12	11	11	32	32	29
A1	%	15	22	22	26	26	31
A2	%	7	6	8	4	4	5
Solar factor g		0,73	0,68	0,67	0,42	0,42	0,41
Shading Coefficient		0,83	0,78	0,77	0,48	0,48	0,47
U-value		W/(m ² .K)					
Air		3,3	3,2	2,8	1,6	1,4	1,6
Argon 85 %		-	-	-	1,3	1,1	1,3
Sound reduction indices							
RW	dB	34	36	37	36	36	37
C	dB	-1	-1	-1	-2	-2	-1
Ctr	dB	-3	-3	-3	-5	-5	-4
RA	dB	33	35	36	34	34	36
RA,tr	dB	31	32	34	31	31	33

(1) Where the difference in thickness between pane 1 and 2 ≥ 6 mm, contact SAINT-GOBAIN GLASS. For a glass dimension ≤ 50 cm, please contact SAINT-GOBAIN GLASS.

(2) The SGG PLANITHERM TOTAL coating is on face 3.

Installation Guidelines

See DOUBLE-GLAZING.

Standards and Regulations

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


In the context of marking, the acoustic insulation values may be subject to modification. Please consult our website www.saint-gobain-glass.com to find the final values once it is officially in force.



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Email : glassinfo.uk@saint-gobain-glass.com
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Distributor

A large empty rectangular box with a black border, intended for the distributor's name and contact information.