



SGG STADIP® SILENCE

Acoustic PVB laminated safety glass

Technical Sheet
United Kingdom

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Description

SGG STADIP SILENCE is an acoustic laminated safety glass, consisting of two or more sheets of glass bonded together by one or more acoustic Polyvinyl Butyral interlayers, known as PVB (A)



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Applications

External facades

When used in double-glazed form (i.e. SGG CLIMALIT SILENCE or SGG CLIMAPLUS SILENCE), SGG STADIP SILENCE considerably reduces noise from outside in commercial or residential buildings located in noisy areas (close to main roads, motorways, railway stations, airports, etc.).

Overhead glazing

SGG STADIP SILENCE provides protection against impact noise from rain on windows and overhead glazing.

Internal partitions

- Interpreter booths
- Office partitions
- Meeting rooms.

SGG STADIP SILENCE can be used in many applications, combining optimum acoustic performance with the same mechanical resistance and safety properties of SGG STADIP or SGG STADIP PROTECT.

Advantages

Acoustic insulation

SGG STADIP SILENCE has a significantly improved acoustic performance compared with SGG STADIP and SGG STADIP PROTECT glass of the same composition using conventional PVB.

Mechanical resistance and safety

SGG STADIP SILENCE has the same mechanical resistance and safety performance as SGG STADIP or SGG STADIP PROTECT of the same composition.

Range

Base products

SGG STADIP SILENCE is available in the same compositions as products from the SGG STADIP and SGG STADIP PROTECT range.

Branding

Products are named in the same way as the SGG STADIP and SGG STADIP PROTECT range. If the product comprises SGG PLANILUX clear float glass, as this is used as standard, no specific reference is given to the glass substrate. For example: SGG STADIP SILENCE 8.8mm glass comprises 2 sheets of 4mm SGG PLANILUX glass, assembled with 2 acoustic PVB(A) interlayers. If other glass types are used, the product name is added after SGG STADIP SILENCE. For example SGG STADIP SILENCE 10.4mm ANTELIO SILVER consists of 6mm SGG ANTELIO SILVER solar control glass, 4mm SGG PLANILUX glass with one acoustic PVB(A) interlayer, 0.38 mm thick.

Manufacturing Dimensions

Maximum: 6000 x 3210 mm

Minimum: 300 x 300 mm

For other dimensions, please contact SAINT-GOBAIN GLASS.

Performance

Acoustic insulation

SGG STADIP SILENCE overcomes the drop in the acoustic insulating performance of glass at the critical frequency, in both single and double glazing. It therefore ensures optimum acoustic performance.

For single glazing

For the same thickness of glass, SGG STADIP SILENCE achieves an average increase, expressed in R_w (BS EN ISO 717), of between 3 dB compared with conventional SGG STADIP or SGG STADIP PROTECT laminated glass and 5 dB compared with monolithic SGG PLANILUX.

Safety

SGG STADIP SILENCE achieves the same levels of safety and security as SGG STADIP, SGG STADIP PROTECT and SGG STADIP PROTECT SP, of identical composition (glass thickness and number of interlayers). Example: 9.5mm SGG STADIP SILENCE is classed as P5A in accordance with BS EN 356 along with SGG STADIP PROTECT SP 510 (9.5mm).

Performance .../...

Laminated glass											
SGG STADIP SILENCE (1)		6.4A	8.4A	10.4A	12.4A	6.8A	8.8A	10.8A	12.8A	9.5A	SP 510A
Thickness	mm	6	8	10	12	7	9	11	13	10	10
Weight	kg/m ²	15,5	20,5	25,5	30,5	16	21	26	31	21,5	22
Light factor											
LT	%	88	87	86	85	88	87	86	85	86	86
LRe	%	8	8	8	8	8	8	8	8	8	8
LRI	%	8	8	8	8	8	8	8	8	8	8
uv	%	2	2	2	2	<1	<1	<1	<1	<1	<1
Energy factor											
T	%	74	71	68	65	73	70	67	64	68	67
Re	%	7	7	7	6	7	7	7	6	7	7
Ri	%	7	7	7	7	7	7	7	6	7	7
A	%	19	22	25	28	20	23	27	29	25	27
Solar factor g		0,79	0,77	0,75	0,73	0,78	0,76	0,74	0,72	0,75	0,74
Shading Coefficient SC		0,91	0,88	0,86	0,84	0,90	0,87	0,85	0,82	0,86	0,85
U-value	W/(m ² .K)	5,7	5,7	5,6	5,5	5,7	5,7	5,6	5,5	5,7	5,7
Sound reduction indices											
RW	dB	35	36 (3)	38	39	35	37	38	39	37	38
C	dB	-1	0	-1	-1	-1	0	0	0	0	-1
Ctr	dB	-3	-2	-3	-2	0	-3	-2	-2	-2	-2
RA	dB	34	36	37	38	35	37	38	39	37	37
RA,tr	dB	32	34	35	37	32	34	36	37	35	36

(1) The letter A signifies the use of an acoustic PVB interlayer.

Processed Product Variations

SGG STADIP SILENCE is processed in the same way as SGG STADIP laminated glass.

Installation Guidelines

SGG STADIP SILENCE must be installed in accordance with current national regulations and our special guidelines. It is essential to take into account that the framing and glazing method are of equal importance as the glass. Any air gaps significantly reduce the overall acoustic insulating performance of the window.

Standards and Regulations

SGG STADIP SILENCE glass complies with standard BS EN 12543 and will receive the relevant CE marking when it is officially in force.



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