

# GUARDIAN LAMIGLASS® SOUND CONTROL



Transparent Sound Control and Safety  
for highest Demands



## All benefits in the overview

- ideal combination of supreme attributes in one product
- safety properties of laminated glass combined and acoustic insulation of cast resin
- sound reduction ( $R_w$ ) up to 53 dB
- safe break-behavior even with highest demands of the pendulum impact test (EN 12 600)
- safety class P2A with ball drop test as laminated glass with PVB-SC 44.4
- according to requirements on linear jointed glazing and glazing against sudden fall
- can be processed like conventional laminated glass



- supreme optical attributes (light stability, clearness, transparency)
- long lifetime and edge stability through optimal glass-adhesion of PVB-interlayer
- minimized UV-transmission
- available as jumbo and lehr end size
- highest light transmittance, neutral colour and optimized thermal insulation in combination with GUARDIAN Low-E 1.1 N
- can be combined with all GUARDIAN function glasses

## Properties Single Glazing

Type	Glazing	Inter-layer	Thick-ness mm	R <sub>w</sub> dB	C <sub>tr</sub> dB	U-Value EN 673 W/(m <sup>2</sup> K)	Safety level Ball drop EN 356	Safety level Pendulum impact	T <sub>v</sub> %	Solar Factor EN 410 %
SC 44.2	4/0,76/4	SC	9	37	-3	5,7	P1A	7B*	90	81
SC 44.4	4/1,52/4	SC	10	37	-3	5,7	P2A	7B*	90	79
SLA 44.1	4/0,50/4	SLA	8	38	-4	5,7	-****	-****	90	81
SLA 44.2	4/0,76/4	SLA	9	38	-4	5,7	-****	-****	90	81
SC 55.2	5/0,76/5	SC	11	38	-3	5,6	P1A	1(B)**	89	79
SC 66.2	6/0,76/6	SC	13	40	-3	5,6	P1A	1(B)**	89	78
SC 88.2	8/0,76/8	SC	17	42	-3	5,4	P1A	1(B)**	87	75

## Properties Insulating Glass

Type	Glazing	Inter-layer	Thick-ness mm	R <sub>w</sub> dB	C <sub>tr</sub> dB	U-Value EN 673 W/(m <sup>2</sup> K)	Safety level Ball drop EN 356	Safety level Pendulum impact	T <sub>v</sub> %	Solar Factor EN 410 %
25/36	44.2 / 12 / 4	PVB	25	36	-5	1,3 (Ar)	P2A	7B*	79	61
27/37	33.4 / 16 / 4	PVB	27	37	-6	1,2 (Ar)	P4A	7B*	80	60
25/39	44.2 / 12 / 4	PVB	25	39	-10	1,5 (MG)	P2A	7B*	79	61
32/39	44.4 / 16 / 6	PVB	32	39	-6	1,2 (Ar)	P4A	7B*	79	59
29/39	44.2 / 16 / 4	SC	29	39	-5	1,2 (Ar)	P1A	7B*	79	61
31/41	44.2 / 16 / 6	SC	31	41	-6	1,2 (Ar)	P1A	7B*	79	61
33/41	44.2 / 18 / 6	SC	33	41	-7	1,2 (Ar)	P1A	7B*	79	61
32/41	44.4 / 16 / 6	SC	32	41	-6	1,2 (Ar)	P4A	7B*	79	59
30/42	44.1 / 16 / 6	SLA	30	42	-6	1,2 (Ar)	-****	-****	79	61
35/42	55.2 / 16 / 8	SC	35	42	-6	1,1 (Ar)	P1A	7B*	78	60
45/42	44.2 / 12 / 4 / 12 / 8	SC	45	42	-6	0,7 (Ar)	P1A	7B*	69	49
33/42	44.2 / 16 / 8	SC	33	42	-7	1,2 (Ar)	P1A	7B*	78	61
34/42	44.4 / 18 / 6	SC	34	42	-6	1,2 (Ar)	P2A	7B*	79	59
32/43	44.4 / 16 / 6	SC	32	43	-9	1,5 (MG)	P2A	7B*	79	59
33/43	44.2 / 18 / 6	SC	33	43	-8	1,5 (MG)	P1A	7B*	79	61
34/43	44.1 / 20 / 6	SLA	34	43	-7	1,2 (Ar)	-****	-****	79	61
37/43a	55.2 / 18 / 8	SC	37	43	-6	1,2 (Ar)	P1A	1(B)**	78	60
37/43b	66.2 / 16 / 8	SC	37	43	-6	1,1 (Ar)	P1A	1(B)**	78	58
37/43c	66.3 / 16 / 8	SC	37	43	-6	1,1 (Ar)	P1A	1(B)**	77	58
46/43	44.2 / 12 / 5 / 12 / 8	SC	46	43	-7	0,7 (Ar)	P1A	7B*	69	49
34/44	44.1 / 16 / 10	SLA	34	44	-6	1,1 (Ar)	-****	-****	78	61
35/44a	44.2 / 20 / 6	SC	35	44	-9	1,5 (MG)	P1A	7B*	79	61
35/44b	44.2 / 16 / 10	SC	35	44	-6	1,1 (Ar)	P1A	7B*	78	60
36/44	44.1 / 20 / 8	SLA	36	44	-7	1,2 (Ar)	-****	-****	78	61
39/45a	44.2 / 20 / 10	SC	39	45	-6	1,2 (Ar)	P1A	7B*	78	60
39/45b	66.3 / 16 / 10	SC	39	45	-4	1,1 (Ar)	P1A	1(B)**	77	58
37/45	55.2 / 16 / 10	SC	37	45	-7	1,1 (Ar)	P1A	1(B)**	78	59
36/45a	44.4 / 16 / 10	SC	36	45	-7	1,1 (Ar)	P2A	7B*	78	59
36/45b	44.1 / 18 / 10	SLA	36	45	-2	1,2 (Ar)	-****	-****	78	61
36/46a	44.4 / 16 / 55.2	PVB/SC	36	46	-8	1,1 (Ar)	P4A	1(B)**	78	59
36/46b	44.4 / 16 / 10	SC	36	46	-9	1,5 (MG)	P2A	7B*	78	59
37/46	44.2 / 18 / 10	SC	37	46	-8	1,5 (MG)	P1A	7B*	78	60
38/47	44.2 / 16 / 66.2	SC/ SC	38	47	-6	1,1 (Ar)	P1A	1(B)**	78	60
38/48	44.2 / 16 / 66.3	SC/ SC	38	48	-8	1,1 (Ar)	P1A	7B*	78	60
46/49	88.2 / 20 / 44.2	SC/ SC	46	49	-5	1,4 (Luft)	P1A	1(B)**	76	55
41/49	44.2 / 20 / 66.2	SC/ SC	41	49	-7	1,2 (Ar)	P1A	1(B)**	78	60
38/49	44.3 / 16 / 66.3	SC/ SC	38	49	-7	1,1 (Ar)	P1A	1(B)**	77	59
38/50	44.2 / 16 / 66.2	SC/ SC	38	50	-8	1,5 (MG)	P1A	7B*	78	60
42/50	44.3 / 20 / 66.3	SC/ SC	42	50	-7	1,2 (Ar)	P1A	1(B)**	77	59
46/50	88.2 / 20 / 44.2	SC/ SC	46	50	-6	1,2 (Ar)	P1A	1(B)**	76	55
46/51	88.2 / 16 / 66.2	SC/ SC	46	51	-5	1,1 (Ar)	P1A	1(B)**	75	55
46/53	88.2 / 16 / 66.2	SC/ SC	46	53	-6	1,5 (MG)	P1A	1(B)**	75	55

R<sub>w,P</sub>-value according to EN ISO 140-3 and 717

PVB Polyvinyl-Butyral-Interlayer  
 SC Sound-Control-PVB-Interlayer  
 SLA Akustik-PVB-Interlayer  
 (Ar) Argon gas filling  
 (MG) gas mix Argon/SF<sub>6</sub>

\* prEN 12 600  
 \*\* EN 12 600  
 \*\*\* Low-E 1.1 N – coating on face 3 (triple glazing: face 2+5)  
 \*\*\*\* not yet tested

All values are nominal values and subject to product tolerances.



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