



GUARDIAN SOUND CONTROL

Guardian LamiGlass Certificated Sound Reduction Indices - dB

Insulating glass unit configuration (float glass & sound control laminates (SC))



Insulating glass unit configuration
for float glass, PVB laminates &
Sound Control Laminates (SC)

Insulating glass unit configuration for float glass, PVB laminates & Sound Control Laminates (SC)	Frequency - Hertz						$R_w(C;C_{tr})$	R_w	$R_w + C$	$R_w + C_{tr}$
	125	250	500	1000	2000	4000				
Single glass										
8.8 SC	26	29	34	38	39	45	37(-0;-3)	37	37	34
9.5 SC	26	29	34	39	39	43	37(-1;-3)	37	36	34
10.8 SC	26	31	35	39	40	48	38(-0;-3)	38	38	35
12.8 SC	30	33	37	40	42	51	40(-1;-3)	40	39	37
16.8 SC	32	34	39	41	46	55	42(-1;-3)	42	41	39
Double insulating glass units										
4 / 16 / 4	24	18	26	40	45	39	30(-1;-4)	30	29	26
4 / 16 / 6	24	21	29	43	43	45	34(-1;-5)	34	33	29
4 / 16 / 8	25	22	32	41	45	46	35(-2;-5)	35	33	30
4 / 16 / 10	27	23	33	41	48	51	37(-2;-6)	37	35	31
6 / 16 / 8.8	26	27	36	43	42	53	38(-1;-5)	38	37	33
6 / 16 / 9.5	24	26	39	45	42	50	39(-2;-6)	39	37	33
6 / 16 / 8.8 SC	24	28	39	48	46	56	41(-2;-6)	41	39	35
8 / 16 / 8.8 SC	24	31	40	49	51	63	42(-2;-7)	42	40	35
8 / 16 / 10.8 SC	24	31	41	46	46	59	42(-2;-6)	42	40	36
8 / 16 / 12.8 SC	25	34	41	44	46	62	43(-2;-6)	43	41	37
10 / 16 / 8.8 SC	27	32	43	46	48	61	44(-2;-6)	44	42	38
10 / 16 / 9.5 SC	26	34	44	47	50	61	45(-3;-7)	45	42	38
10 / 16 / 10.8 SC	27	34	43	47	52	64	45(-2;-7)	45	43	38
8.8 SC / 16 / 12.8 SC	28	38	46	50	54	67	47(-2;-6)	47	45	41
8.8 SC / 16 / 13.1 SC	28	37	46	51	54	66	48(-3;-8)	48	45	40
9.1 SC / 16 / 13.1 SC	29	40	47	51	53	64	49(-3;-7)	49	46	42
8.8 SC / 16 / 16.8 SC	31	41	48	53	58	67	50(-1;-6)	50	49	44
12.8 SC / 16 / 16.8 SC	34	41	47	53	61	68	51(-1;-5)	51	50	46
Triple insulating glass units										
4 / 12 / 4 / 12 / 4	20	18	27	43	49	43	31(-1;-5)	31	30	26
4 / 12 / 4 / 12 / 6	22	24	32	46	47	47	35(-1;-5)	35	34	30
4 / 12 / 4 / 12 / 8	21	24	33	44	48	51	36(-2;-6)	36	34	30
6 / 12 / 4 / 12 / 8	21	28	37	43	41	55	38(-1;-5)	38	37	33
6 / 12 / 4 / 12 / 8.8 SC	23	30	42	51	46	60	41(-2;-6)	41	39	35
8 / 12 / 4 / 12 / 8.8 SC	24	31	40	48	47	60	42(-2;-6)	42	40	36
8 / 12 / 5 / 12 / 8.8 SC	24	32	41	49	47	58	43(-3;-7)	43	40	36
8.8 SC / 12 / 6 / 12 / 10.8 SC	29	34	45	53	54	66	47(-2;-7)	47	45	40

I have attached the above sound control sheet because we have been requested to supply the double-glazed sound level for the correct glass installation. As we are not a nightclub but function as a workman's club that is normally ran in a quit environment I would like to request some help from your sound regulation department for the correct sound value because the club is over 100 years old and we have never had a noise complaint through the glass from any of our neighbours.