

Noise reduction solutions using glass

The following tables take the recommended design sound levels from AS/NZS 2107 for both recommended and satisfactory levels and lists the glass to be used to achieve the desired sound level at the inside of the glass. Satisfactory refers to the highest levels of noise in the room which is believed tolerable by AS/NZS 2107 for the activity being undertaken in that room. Therefore the recommended solution is more desirable for the occupant than the satisfactory solution.

The tables provide the solution for both traffic and aircraft noise for the building use designations shown in AS/NZS 2107. The attenuation of traffic noise in this table is represented by $\rm R_w + C_{tr}$ and aircraft noise is represented by $\rm R_w + C_{tr}$

This table relates to the noise level at the inside surface of the glass not necessarily the noise level in the room because the level in the room is influenced by the vagaries caused by differences in window type or window frame type.

It should be remembered the acceptable noise levels suggested in AS2107 may not be suitable for all people. There are various methods for analysing and finding a solution to a noise problem. An accoustic consultant is an authoritative source of information and advice for analysing and developing solutions to noise problems. Consideration should be given to employing their expertise.

Further information on the acoustic properties of glass including attenuation data is available on our website.

Type of Occupancy	External Noise	Traffic Noise				Aircraft Noise	Aircraft Noise			
		Internal noise level (room side of glass)				Internal noise level (room side of glass)				
	Level	Minimum Compliance	dB	Recommended	dB	Minimum Compliance	dB	Recommended	dB	
Board Room	65	4mm Float	37	10.5mm VLam Hush	29	4mm VFloat	36	6.5mm VLam Hush	30	
	70	6.38mm VLam	40	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	30	6.38mm VLam	38	8mm VFloat + 16mm Gap + 10.5mm VLam Hush	29	
(Recommended 30) (Min. Compliance 40)	75	10.5mm VLam Hush	39	10mm VFloat + 200mm Gap + 6mm VFloat	30	6.5mm VLam Hush	40	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	30	
	80	8.5mm Vlam Hush + 16mm Gap + 12.5mm Vlam Hush	40	No standard solution	-	8mm VFloat + 16mm Gap + 10.5mm VLam Hush	39	No standard solution	-	
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36	
Cafeteria (Daniela de 185)	70	4mm VFloat	42	4mm VFloat	42	4mm VFloat	41	4mm VFloat	41	
(Recommended 45) (Min. Compliance 50)	75	4mm VFloat	47	6.38mm VLam	45	4mm VFloat	46	5mm VFloat	45	
	80	6.38mm VLam	50	10.5mm VLam Hush	44	6.5mm VLam	45	6.5mm VLam Hush	45	
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36	
Call Contro	70	4mm VFloat	42	6.38mm VLam	40	4mm VFloat	41	6.38mm VLam	38	
Call Centre Recommended 40) Min Compliance 45)	75	6.38mm VLam	45	10.5mm VLam Hush	39	5mm VFloat	45	6.5mm VLam Hush	40	
(Min. Compliance 45)	80	10.5mm VLam Hush	44	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	40	6.5mm VLam Hush	45	10.5mm VLam Hush 8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush 9 No standard solution 6 4mm VFloat 11 4mm VFloat 15 6.5mm VLam Hush 16 4mm VFloat 17 6.5mm VLam Hush 18 6 4mm VFloat 19 6.5mm VLam Hush 19 6.5mm VLam Hush 19 6.5mm VLam Hush 19 6 4mm VFloat 10 6.5mm VLam Hush 10 6.5mm VLam Hush 11 6 4mm VFloat 12 6.5mm VLam Hush 13 6 6.5mm VLam Hush 14 6.5mm VLam Hush 15 6.5mm VLam Hush 16 6.5mm VLam Hush 17 6.5mm VLam Hush 18 6 4mm VFloat 18 6 6.38mm VLam	39	
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36	
Computer Room	70	4mm VFloat	42	4mm VFloat	42	4mm VFloat	41	4mm VFloat	41	
(Recommended 45) (Min. Compliance 50)	75	4mm VFloat	47	6.38mm VLam	45	4mm VFloat	46	5mm VFloat	45	
	80	6.38mm VLam	50	10.5mm VLam Hush	44	6.38mm VLam	45	6.5mm VLam Hush	45	
Davies Office	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36	
	70	4mm VFloat	42	6.38mm VLam	40	4mm VFloat	41	6.38mm VLam	38	
Design Office (Recommended 40)	80 16mm Gap + 12.5mm VLam Hush 65 4mm VFloat 37 4mm VFloat 42 4mm VFloat 45 ance 50) 80 6.38mm VLam 50 10.5mm VLam Hush 65 4mm VFloat 42 6.38mm VLam 45 10.5mm VLam Hush 10.5mm	39	5mm VFloat	45	6.5mm VLam Hush	40				
(Min. Compliance 45)	80	10.5mm VLam Hush	44	16mm Gap +	40	6.5mm VLam Hush	45	8mm VFloat + 16mm Gap + 10.5mm VLam Hush	39	

		Traffic Noise	Information Compliance db Recommended db Minimum Compliance db Recommended db db Recommended db Recommended db Recommended db db Recommended db db Recommended db db Recommended db Recommended db Recommended db Rec						
Type of Occupancy	External Noise	Internal noise (room si	de of gl	ass)		Internal noise (room si	de of g	lass)	
	Level	Minimum Compliance	dB	Recommended	dB	Minimum Compliance	dB	Recommended	dB
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	dB Recommended 36 4mm VFloat 41 6.38mm VLam 45 6.5mm VLam Hush 45 16mm Gap + 10.5mm VLam Hush 36 5mm VFloat 40 6.5mm VLam Hush 40 8.5mm VLam Hush 40 8.5mm VLam Hush 40 8.5mm VLam Hush + 16mm Gap + 10.5mm VLam Hush 41 6.38mm VLam 45 6.5mm VLam Hush 45 4.5mm VFloat 41 4mm VFloat 45 6.5mm VLam Hush 36 4mm VFloat 41 4mm VFloat 45 6.5mm VLam Hush 36 4mm VFloat 41 4mm VFloat 41 4mm VFloat 42 6.5mm VLam Hush 36 4mm VFloat 41 4mm VFloat 41 4mm VFloat 45 6.5mm VLam Hush 36 4mm VFloat 41 6.38mm VLam 45 6.5mm VLam Hush	36
0	70	4mm VFloat	42	6.38mm VLam	40	4mm VFloat	41		38
General Office Areas (Recommended 40) (Min. Compliance 45)	75	6.38mm VLam	45	10.5mm VLam Hush	39	5mm VFloat	45	6.5mm VLam Hush	40
	80	10.5mm VLam Hush	44	16mm Gap +	40	6.5mm VLam Hush	45	16mm Gap +	39
	65	4mm VFloat	37	6.38mm VLam	35	4mm VFloat	36	5mm VFloat	35
	70	6.38mm VLam	40	10.5mm VLam Hush	34	6.38mm VLam	40	6.5mm VLam Hush	35
Private Office (Recommended 35) (Min. Compliance 40)	75	10.5mm VLam Hush	39	16mm Gap +	35	6.5mm VLam Hush	40	16mm Gap +	34
	80	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	40	200mm Gap +	35	16mm Gap +	39	dB Recommended 36 4mm VFloat 41 6.38mm VLam 45 6.5mm VIam Hush 45 16mm Gap + 10.5mm VLam Hush 36 5mm VFloat 40 6.5mm VLam Hush 40 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 40 8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush 36 4mm VFloat 41 6.38mm VLam 45 6.5mm VLam Hush 36 4mm VFloat 41 4mm VFloat 45 6.5mm VLam Hush 36 4mm VFloat 41 4mm VFloat 45 6.5mm VLam Hush 36 4mm VFloat 41 4mm VFloat 41 4mm VFloat 41 4mm VFloat 45 6.5mm VLam Hush 36 4mm VFloat 41 4mm VFloat 45 6.5mm VLam Hush 36 4mm VFloat 41 6.5mm VLam Hush 36 4m	35
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36
Daniel Para Array	70	4mm VFloat	42	6.38mm VLam	40	4mm VFloat	41	6.38mm VLam	38
Reception Area (Recommended 40)	75	6.38mm VLam	45	10.5mm VLam Hush	39	5mm VFloat	45	6.5mm VLam Hush	40
(Min. Compliance 45)	80	10.5mm VLam Hush	44	16mm Gap +	40	6.5mm VLam Hush	45	16mm Gap +	39
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36
Lobby (Recommended 45)	70	4mm VFloat	42	4mm VFloat	42	4mm VFloat	41	4mm VFloat	41
(Recommended 45) (Min. Compliance 50)	75	4mm VFloat	47	6.38mm VLam	45	4mm VFloat	46	5mm VFloat	45
	80	6.38mm VLam	50	10.5mm VLam Hush	44	6.5mm VLam	45	40 16mm Gap + 10.5mm VLam Hush 8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush 36 4mm VFloat 41 6.38mm VLam Hush 45 16mm Gap + 10.5mm VLam Hush 36 4mm VFloat 46 5mm VLam Hush 36 4mm VFloat 47 4mm VFloat 48 4mm VFloat 49 4mm VFloat 49 4mm VFloat 40 5mm VLam Hush 36 4mm VFloat 41 4mm VFloat 42 4mm VFloat 43 4mm VFloat 44 4mm VFloat 45 6.5mm VLam Hush 36 4mm VFloat 46 5mm VLam Hush 36 4mm VFloat 47 4mm VFloat 48 4mm VFloat 49 6.5mm VLam Hush 36 4mm VFloat 49 6.5mm VLam Hush 36 4mm VFloat 41 6.38mm VLam Hush 45 6.5mm VLam Hush 45 6.5mm VLam Hush 46 6.5mm VLam Hush 47 10.5mm VLam Hush 48 4mm VFloat 49 10.5mm VLam Hush 49 10.5mm VLam Hush 40 4mm VFloat 40 4mm	45
Airport Departure Lounge (Recommended 45)	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36
	70	4mm VFloat	42	4mm VFloat	42	4mm VFloat	41	4mm VFloat	41
	75	4mm VFloat	47	6.38mm VLam	45	4mm VFloat	46	5mm VFloat	45
(Min. Compliance 55)	80	4mm VFloat	52	10.5mm VLam Hush	44	4mm VFloat	51	40 6.5mm VLam Hush 40 8mm VFloat + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush 36 4mm VFloat 41 6.38mm VLam Hush 45 6.5mm VLam Hush 46 4mm VFloat 47 4mm VFloat 48 5mm VFloat 49 4mm VFloat 40 5mm VFloat 41 4mm VFloat 43 4mm VFloat 44 5mm VFloat 45 6.5mm VLam Hush 46 5mm VFloat 47 4mm VFloat 48 5mm VFloat 49 4mm VFloat 40 5mm VFloat 41 4mm VFloat 41 4mm VFloat 42 4mm VFloat 43 4mm VFloat 44 5mm VFloat 45 6.5mm VLam Hush 46 6.5mm VLam Hush 47 6.5mm VLam Hush 48 4mm VFloat 49 6.5mm VLam Hush 40 6.5mm VLam Hush 40 6.5mm VLam Hush 41 6.38mm VLam 42 6.5mm VLam Hush 43 4mm VFloat 44 6.5mm VLam Hush 45 6.5mm VLam Hush 46 6.5mm VLam Hush 47 10.5mm VLam Hush 48 4mm VFloat 49 6.5mm VLam Hush 40 6.5mm VLam Hush 41 6.38mm VLam 42 6.5mm VLam Hush 43 6 6.5mm VLam Hush 44 6 6.5mm VLam Hush 45 10.5mm VLam Hush 46 6.5mm VLam Hush 47 10.5mm VLam Hush 48 6mm VFloat Hush	45
	65	4mm VFloat			37				36
Airport Passenger Check-in Area	70			4mm VFloat	42				41
(Recommended 45)	75								45
(Min. Compliance 50)	80								45
	65								36
	70								38
Art Gallery									
(Recommended 40) (Min. Compliance 45)	75 80	10.5mm VLam Hush		8.5mm VLam Hush + 16mm Gap +				8mm VFloat + 16mm Gap +	39
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36
	70	4mm VFloat	42	6.38mm VLam	40	4mm VFloat	41	6.38mm VLam	38
Exhibition Areas (Recommended 40)	75	4mm VFloat	47	10.5mm VLam Hush	39	4mm VFloat	46	6.5mm VLam Hush	40
(Min. Compliance 50)	80	6.38mm VLam		8.5mm VLam Hush + 16mm Gap +				Recommended 4mm VFloat 6.38mm VLam 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 5mm VFloat + 16mm Gap + 10.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush 4mm VFloat 6.38mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 4mm VFloat 6.5mm VLam Hush 4mm VFloat 5mm VFloat 4mm VFloat 5mm VFloat 6.5mm VLam Hush 4mm VFloat 5mm VFloat 6.5mm VLam Hush 4mm VFloat 6.5mm VLam Hush 4mm VFloat 5mm VFloat 6.5mm VLam Hush 4mm VFloat 6.5mm VLam Hush 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 8mm VFloat Hush	39
	65	6.38mm VLam	35	10.5mm VLam Hush	29	5mm VFloat	35	6mm VLam Hush	30
Place of Worship	70	10.5mm VLam Hush	34	16mm Gap +	30	6.5mm VLam Hush	35	16mm Gap +	29
Place of Worship (Recommended 30) (Min. Compliance 35)	75	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	35		30		34	16mm Gap +	30
	80	10mm VFloat 200mm Gap + 6mm VFloat	35	No standard solution	-	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	35	No standard solution	-



	External Traffic Noise					Aircraft Noise			
Type of Occupancy	Noise	Internal noise level (ro	om side	of glass)		Internal noise level (roo	om side	of glass)	
	Level	Minimum Compliance	dB	Recommended	dB	Minimum Compliance	dB	Recommended	dB
	65	6.38mm VLam	35	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	25	5mm VFloat	35	8mm VFloat + 16mm Gap + 10.5mm VLam Hush	23
Court Room	70	10.5mm VLam Hush	34	10mm VFloat + 200mm Gap + 6mm VFloat	25	6.5mm VLam Hush	35	dB Recommended 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 8.5mm VLam Hush +	25
(Min. Compliance 35)	75	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	35	No standard solution	-	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	35		-
	80	10mm VFloat + 200mm Gap + 6mm VFloat	35	No standard solution	-	10mm VFloat + 200mm Gap + 6mm VFloat	35	No standard solution	-
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36
	70	4mm VFloat	42	6.38mm VLam	40	4mm VFloat	41	6.38mm VLam	38
(Recommended 40)	75	6.38mm VLam	45	10.5mm VLam Hush	39	5mm VFloat	45	6.5mm VLam Hush	40
(Min. Compliance 45)	80	10.5mm VLam Hush	44	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	40	6.5mm VLam Hush	45	Recommended 8mm VFloat + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush No standard solution 4mm VFloat 6.38mm VLam 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 4mm VFloat 6.38mm VLam 6.5mm VLam Hush 4mm VFloat + 16mm Gap + 10.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 4mm VFloat 5mm VFloat 6.5mm VLam Hush 4mm VFloat 6.5mm VLam Hush 4mm VFloat 5mm VFloat 6.5mm VLam Hush 4mm VFloat 6.5mm VLam Hush 4mm VFloat 5mm VLam Hush 4mm VFloat 5mm VLam Hush 4mm VFloat 5mm VLam Hush 6.5mm VLam Hush 8mm VFloat 6.5mm VLam Hush 8mm VFloat Hush	39
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36
Museum Exhibition Area	70	4mm VFloat	42	6.38mm VLam	40	4mm VFloat	41	6.38mm VLam	38
(Recommended 40)	75	6.38mm VLam	45	10.5mm VLam Hush	39	5mm VFloat	45	6.5mm VLam Hush	40
(Min. Compliance 45)	80	10.5mm VLam Hush	44	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	40	6.5mm VLam Hush	45	16mm Gap +	39
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36
Post office & General	70	4mm VFloat	42	6.38mm VLam	42	4mm VFloat	41	4mm VFloat	41
Banking Areas (Recommended 45)	75	6.38mm VLam	47	10.5mm VLam Hush	45	5mm VFloat	46	5mm VFloat	45
(Min. Compliance 50)	80	10.5mm VLam Hush	50	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	44	6.38mm VLam	48	Recommended 8mm VFloat + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush No standard solution No standard solution 4mm VFloat 6.38mm VLam 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 4mm VFloat 6.38mm VLam 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 4mm VFloat 5mm VFloat 5mm VFloat 6.5mm VLam Hush 4mm VFloat 5mm VLam Hush 4mm VFloat 5mm VLam Hush 6.5mm VLam Hush	45
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36
Railway & Bus Terminal	70	4mm VFloat	42	6.38mm VLam	42	4mm VFloat	41	4mm VFloat	41
Ticket Areas	1	45							
(Min. Compliance 50)	80	10.5mm VLam Hush	50	16mm Gap +	44	6.38mm VLam	48	Recommended 8mm VFloat + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush No standard solution 4mm VFloat 6.38mm VLam 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 4mm VFloat 6.38mm VLam 6.5mm VLam Hush 4mm VFloat 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 4mm VFloat 5mm VFloat 6.5mm VLam Hush 4mm VFloat 5mm VFloat 6.5mm VLam Hush 4mm VFloat 6.5mm VLam Hush 4mm VFloat 5mm VFloat 6.5mm VLam Hush 4mm VFloat 5mm VFloat 6.5mm VLam Hush 4mm VFloat 6.5mm VLam Hush 4mm VFloat 5mm VFloat 6.5mm VLam Hush 4mm VFloat 6.5mm VLam Hush 4mm VFloat 5mm VLam Hush 4mm VFloat 5mm VLam Hush 6.5mm VLam Hush 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 8.5mm VLam Hush 8.5mm VLam Hush 8.5mm VLam Hush	45
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36
Do atom moneto	70	4mm VFloat	42	6.38mm VLam	42	4mm VFloat	41	4mm VFloat	41
(Recommended 45)	75	6.38mm VLam	47	10.5mm VLam Hush	45	5mm VFloat	46	5mm VFloat	45
(Min. Compliance 50)	80	10.5mm VLam Hush	50	16mm Gap +	44	6.5mm VLam	48	6.5mm VLam Hush	45
	65	4mm VFloat	37	4mm VFloat	37	4mm VFloat	36	4mm VFloat	36
C-# D	70	4mm VFloat	42	6.38mm VLam	42	4mm VFloat	41	4mm VFloat	41
(Recommended 45)	75	6.38mm VLam	47	10.5mm VLam Hush	45	5mm VFloat	46	5mm VFloat	45
(Min. Compliance 50)	80	10.5mm VLam Hush	50	16mm Gap +	44	6.38mm VLam	48	6.5mm VLam Hush	45
	65	4mm Float	37	10.5mm VLam Hush	29	6.38mm VLam	35	6.5mm VLam Hush	30
200mm Gap + 25 6.5mm Vlam Hush 35 200mm Gap + 25 6.5mm Vlam Hush 15 16 16 17 12.5mm Vlam Hush 16 1	70	10.5mm VLam Hush	34	16mm Gap +	30	6.5mm VLam Hush	35	16mm Gap +	29
	75	16mm Gap +	35	200mm Gap +	30	16mm Gap +	34	16mm Gap +	30
	No standard solution	-							

Type of Occupancy	External	Traffic Noise				Aircraft Noise			
	Noise								
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Level	· · · · · ·	dB	, 	dB	 	dB	e of glass) Recommended 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush No standard solution 6.5mm VLam Hush + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 112.5mm VLam Hush 8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush No standard solution 5mm VFloat 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 8.5mm VLam Hush 16mm Gap + 12.5mm VLam Hush 8mm VFloat + 16mm Gap + 12.5mm VLam Hush 8.5mm VLam Hush 8.5mm VLam Hush 8.5mm VLam Hush 8.5mm VLam Hush 16mm Gap + 12.5mm VLam Hush No standard solution 5mm VFloat 6.5mm VLam Hush 8.5mm VLam Hush No standard solution	dB
	65	4mm Float	37	10.5mm VLam Hush	29	4mm VFloat	36		30
Houses & Appartments near minor roads	70	6.38mm VLam	40	8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush	30	6.38mm VLam	38	16mm Gap +	29
Living Areas (Recommended 30) (Min. Compliance 40)	Internal noise level (room side of glass) Internal noise level (room side of glass) Minimum Compilance dB Recommended dB Recommended dB Minimum Compilance dB Recommended dB Recommended dB Minimum Compilance dB Recommended dB Recomme	30							
	80	16mm Gap +	40	No standard solution	-	16mm Gap +	39	No standard solution	-
	65	4mm Float	37	10.5mm VLam Hush	29	4mm VFloat	36	6.5mm VLam Hush	30
Houses & Appartments	70	6.38mm VLam	40	16mm Gap +	30	6.38mm VLam	38	16mm Gap +	29
near major roads Sleeping Areas (Recommended 30) (Min. Compliance 40)	75	10.5mm VLam Hush	39	200mm Gap +	30	6.5mm VLam Hush	40	16mm Gap +	30
	80	16mm Gap +	40	No standard solution	-	16mm Gap +	39	No standard solution	-
	65	4mm VFloat	37	6.38mm VLam	35	4mm VFloat	36	5mm VFloat	35
	70	4mm VFloat	42	10.5mm VLam Hush	34	4mm VFloat	41	6.5mm VLam Hush	35
Houses & Appartments near major roads Living Areas (Recommended 35)	75	6.38mm VLam	45	16mm Gap +	35	5mm VFloat	45	16mm Gap +	34
(Min. Compliance 45)	80	10.5mm VLam Hush	44	200mm Gap +	35	6.5mm VLam Hush	45	Recommended 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush No standard solution 6.5mm VLam Hush + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush 8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush No standard solution 5mm VFloat 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 6.5mm VLam Hush 8.5mm VLam Hush 8.5mm VLam Hush 8.5mm VLam Hush 16mm Gap + 12.5mm VLam Hush 8.5mm VLam Hush No standard solution 5mm VFloat + 16mm Gap + 10.5mm VLam Hush 8.5mm VLam Hush	35
	65	6.38mm VLam	35	10.5mm VLam Hush	29	5mm VFloat	35	6.5mm VLam Hush	30
Hotels & Motels	70	10.5mm VLam Hush	34	16mm Gap +	30	6.5mm VLam Hush	35	16mm Gap +	29
near minor roads Sleeping Areas (Recommended 30) (Min. Compliance 35)	75	16mm Gap +	35	200mm Gap +	30	16mm Gap +	34	16mm Gap +	30
(viii ii corripiarioc co)	80	200mm Gap +	35	No standard solution	-	16mm Gap +	35	No standard solution	-
	65	4mm Float	37	6.38mm VLam	35	4mm VFloat	36	5mm VFloat	35
Halala O Mark	70	6.38mm VLam	40	10.5mm VLam Hush	34	6.38mm VLam	40	6.5mm VLam Hush	35
Hotels & Motels near major roads Sleeping Areas (Recommended 35)	75	10.5mm VLam Hush	39	16mm Gap +	35		40	Recommended 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush No standard solution 6.5mm VLam Hush + 16mm Gap + 10.5mm VLam Hush + 16mm Gap + 10.5mm VLam Hush 8.5mm VLam Hush + 16mm Gap + 12.5mm VLam Hush No standard solution 5mm VFloat 6.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 8.5mm VLam Hush 8.5mm VLam Hush 8.5mm VLam Hush 8.5mm VLam Hush 10.5mm VLam Hush 8.5mm VLam Hush 10.5mm VLam Hush 10.5mm VLam Hush 8.5mm VLam Hush 10.5mm VLam Hush 8mm VFloat + 16mm Gap + 10.5mm VLam Hush 10.5mm VLam Hush 8.5mm VLam Hush 8.5mm VLam Hush 10.5mm VLam Hush 8.5mm VLam Hush 10.5mm VLam Hush 8.5mm VLam Hush 10.5mm VLam Hush 10.5mm VLam Hush 8.5mm VLam Hush 10.5mm VLam Hush 8mm VFloat 10.5mm VLam Hush	34
(Min. Compliance 40)	80		40		35		39		35

