

Standardized Impact Sound Pressure Levels according to ISO 140-7 Comparison of field measurements of Impact Sound Insulation of Floors

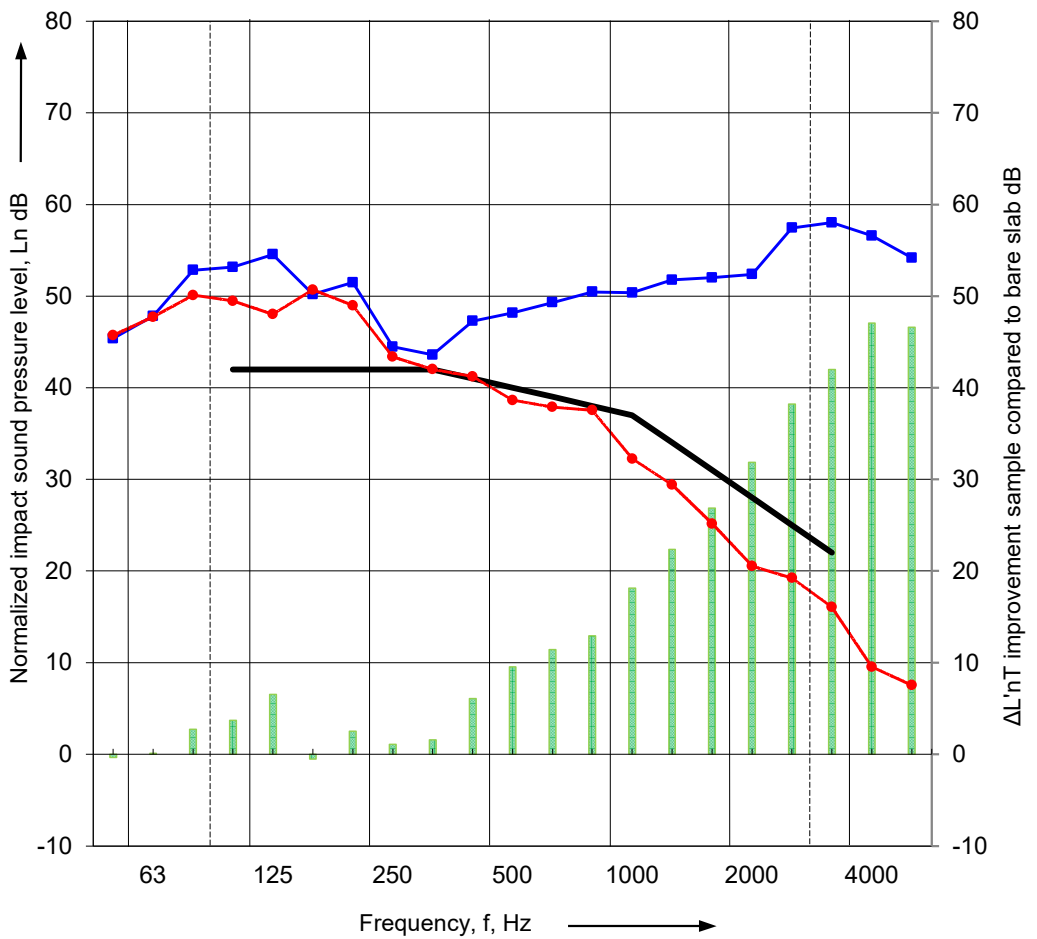
1: Sample plus substrate Clever Choice Hybrid shield 10mm thick, 200mm concrete slab, 120mm cavity with no insulation, 13mm plasterboard ceiling

2: Substrate 200mm concrete slab, 120mm cavity with no insulation, 13mm plasterboard ceiling

3: $\Delta L'nT$ $\Delta L'nT$ improvement due to Clever Choice Hybrid shield 10mm

$L'nT,w$ 40 curve ----- Frequency range according to the curve of reference values (ISO 717-2)

Frequency f Hz	L'nT dB 1/3 octave		
	1	2	3
50	46	45	-0.3
63	48	48	0.1
80	50	53	2.7
100	49	53	3.7
125	48	55	6.5
160	51	50	-0.5
200	49	52	2.5
250	43	44	1.1
315	42	44	1.6
400	41	47	6.1
500	39	48	9.5
630	38	49	11.4
800	38	50	12.9
1000	32	50	18.1
1250	29	52	22.4
1600	25	52	26.8
2000	21	52	31.8
2500	19	57	38.2
3150	16	58	42.0
4000	9.5	57	47.1
5000	7.5	54	46.6



$L'nT,w$	40	61	n/a
C_i	1	-13	n/a
$C_i(50-2500)$	3	-12	n/a
$\Delta L'nT,w$	n/a	n/a	21
AAAC Star	6	2	n/a
FIIC	62	35	n/a

Rating according to ISO 717-2

1: Sample plus substrate $L'nT,w$ (C_i ; $C_i50-2500$) = 40 (1 ; 3) dB;
 2: Substrate only $L'nT,w$ (C_i ; $C_i50-2500$) = 61 (-13 ; -12) dB;

Testing Company: Acoustic Works

Project number: 2023038

Location of test: Level 25 (of 39) residential building Broadbeach

Date of test: 14 February 2023

Client: Clever Choice Paxwood Pty Ltd

Sample area: 1m²

Room dimensions: 9.7m(L) x 6.4m(W) x 2.6m(H)