

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

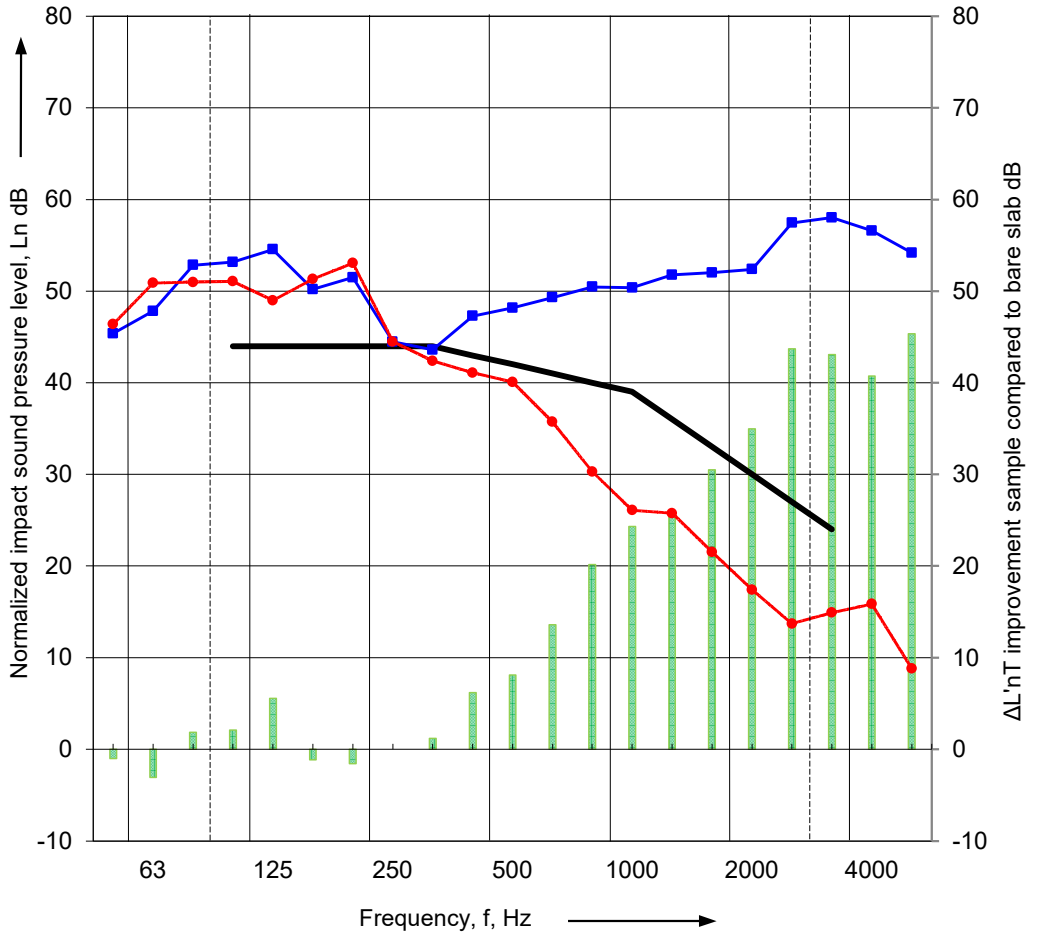
1: Sample plus substrate Clever Choice Hybrid Shield 10mm thick, 3mm Clever Choice cork underlay, 200mm concrete slab, 120mm cavity with no insulation, 13mm plasterboard ceiling

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, 3mm Clever Choice cork underlay

$L'nT, w$ 42 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	-1.0
63	51	48	-3.1
80	51	53	1.9
100	51	53	2.1
125	49	55	5.6
160	51	50	-1.1
200	53	52	-1.6
250	44	44	0.0
315	42	44	1.2
400	41	47	6.2
500	40	48	8.1
630	36	49	13.6
800	30	50	20.2
1000	26	50	24.3
1250	26	52	26.0
1600	22	52	30.5
2000	17	52	35.0
2500	14	57	43.7
3150	15	58	43.1
4000	16	57	40.7
5000	8.8	54	45.4



$L'nT, w$	42	61	n/a
Ci	1	-13	n/a
Ci(50-2500)	3	-12	n/a
$\Delta L'nT, w$	n/a	n/a	19
AAAC Star	5	2	n/a
FIIC	60	35	n/a

Rating according to ISO 717-2
 1: Sample plus substrate $L'nT, w$ (Ci ; Ci50-2500) = 42 (1 ; 3) dB;
 2: Substrate only $L'nT, w$ (Ci ; Ci50-2500) = 61 (-13 ; -12) dB;

Testing Company:	Acoustic Works	Client:	Clever Choice Paxwood Pty Ltd
Project number:	2023038	Sample area:	1m ²
Location of test:	Level 25 (of 39) residential building Broadbeach	Room dimensions:	9.7m(L) x 6.4m(W) x 2.6m(H)
Date of test:	14 February 2023		