

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

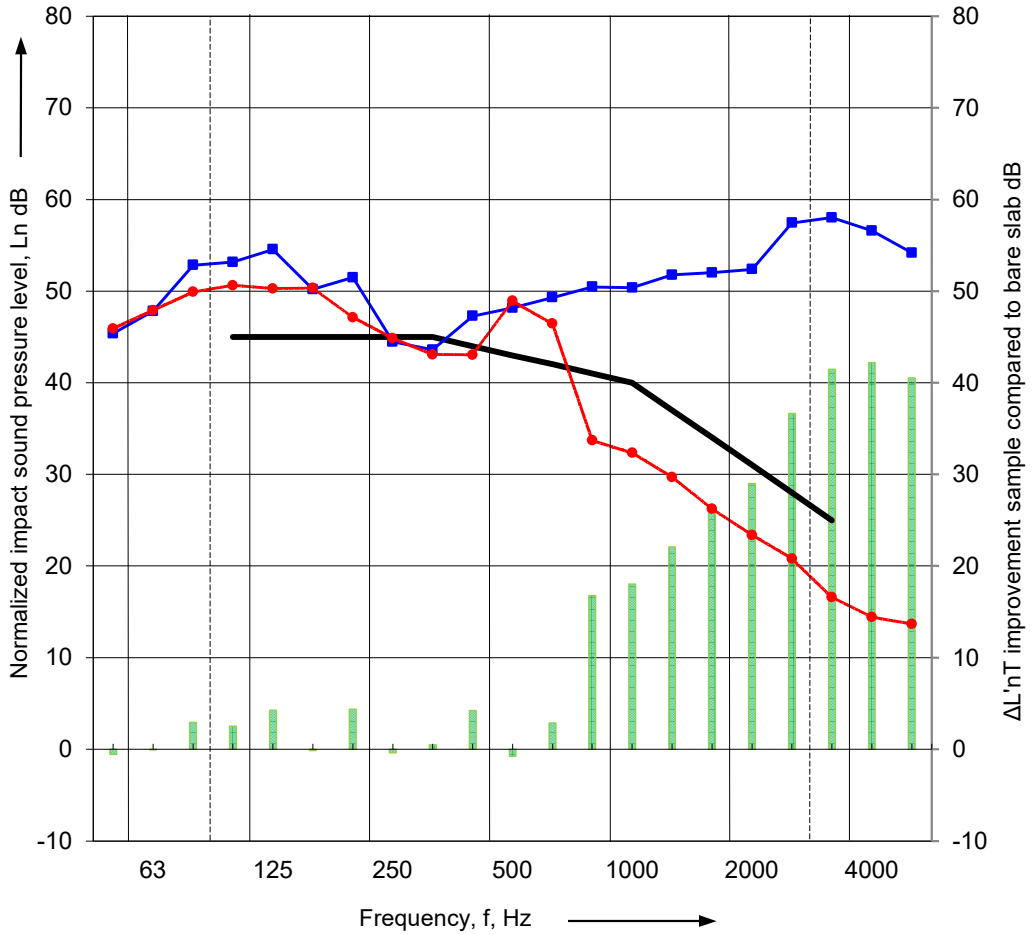
1: Sample plus substrate Clever Choice Hydro XL 12mm thick, 3mm Clever Choice Clever Sound underlay, 200mm concrete slab, 120mm cavity with no insulation, 13mm plasterboard ceiling

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 Hydro XL 12mm, 3mm Clever Choice Clever Sound underlay

$L'nT, w$ 43 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	-0.5
63	48	48	-0.1
80	50	53	2.9
100	51	53	2.5
125	50	55	4.3
160	50	50	-0.1
200	47	52	4.4
250	45	44	-0.4
315	43	44	0.5
400	43	47	4.2
500	49	48	-0.8
630	46	49	2.9
800	34	50	16.8
1000	32	50	18.0
1250	30	52	22.1
1600	26	52	25.8
2000	23	52	29.0
2500	21	57	36.6
3150	17	58	41.4
4000	14	57	42.2
5000	14	54	40.5



$L'nT, w$	43	61	n/a
C_i	0	-13	n/a
$C_i(50-2500)$	1	-12	n/a
$\Delta L'nT, w$	n/a	n/a	18
AAAC Star	5	2	n/a
FIIC	60	35	n/a

Rating according to ISO 717-2
 1: Sample plus substrate $L'nT, w (C_i ; C_i50-2500) = 43 (0 ; 1)$ dB;
 2: Substrate only $L'nT, w (C_i ; C_i50-2500) = 61 (-13 ; -12)$ 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		