

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

Test number: 32

1: Sample
plus substrate

Clever Choice loose-laid Chevron Plank 9mm, Clever Sound 3mm underlay 200mm thick concrete slab, 120mm cavity with no insulation, 13mm plasterboard ceiling

2: Substrate

200mm thick concrete slab, 120mm cavity with no insulation, 13mm plasterboard ceiling

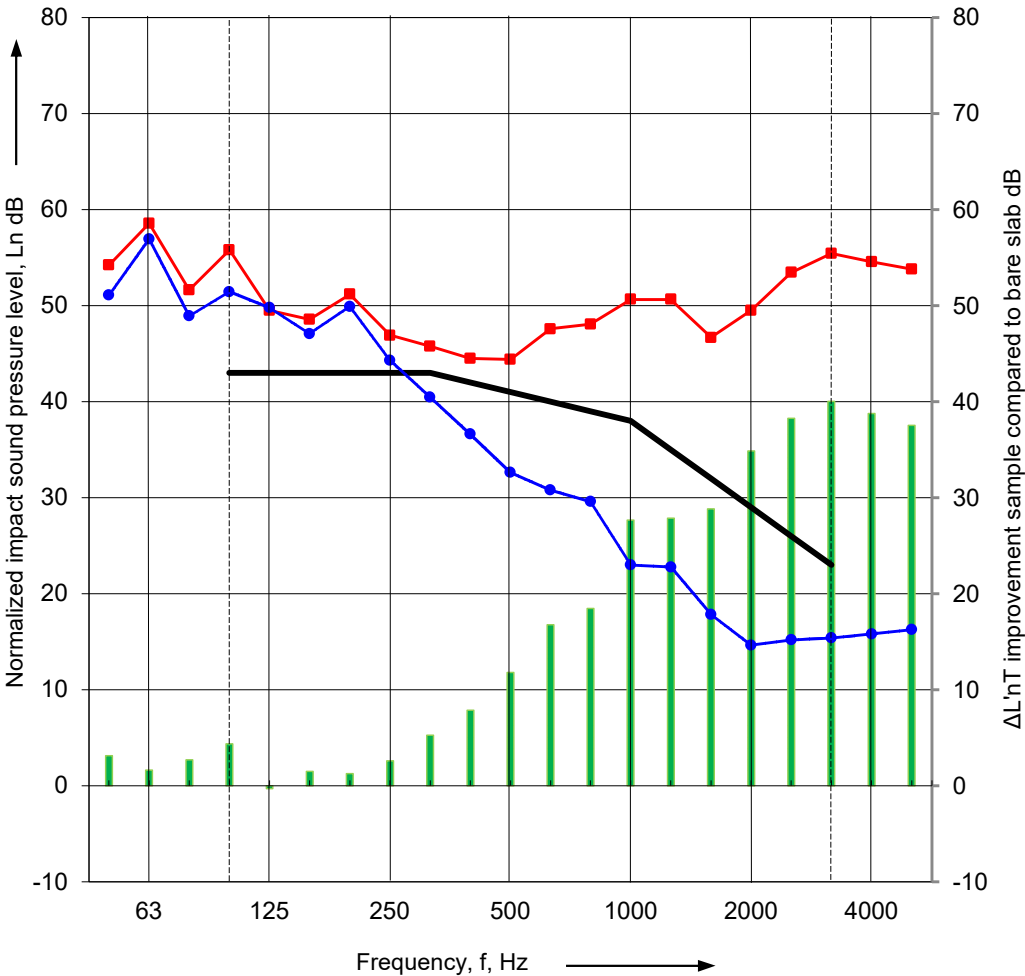
3: $\Delta L'nT$

$\Delta L'nT$ improvement due to Clever Choice loose-laid Chevron Plank 9mm, Clever Sound 3mm underlay

$L'nT_{w,41}$ 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	51	54	3.1
63	57	59	1.6
80	49	52	2.7
100	51	56	4.4
125	50	50	-0.3
160	47	49	1.5
200	50	51	1.3
250	44	47	2.6
315	40	46	5.3
400	37	44	7.9
500	33	44	11.8
630	31	48	16.8
800	30	48	18.5
1000	23	51	27.6
1250	23	51	27.9
1600	18	47	28.8
2000	15	50	34.9
2500	15	53	38.2
3150	15	55	40.0
4000	16	55	38.7
5000	16	54	37.5
L'nT,w	41	58	n/a
Ci	1	-11	n/a
Ci(50-2500)	5	-9	n/a
$\Delta L'nT_{w,41}$	n/a	n/a	17
AAAC Star	5	2	n/a
FIIC	64	40	n/a



Rating according to ISO 717-2

1: Sample plus substrate $L'nT_{w,41}$ (Ci ; Ci50-2500) = 41 (1 ; 5) dB;
2: Substrate only $L'nT_{w,41}$ (Ci ; Ci50-2500) = 58 (-11 ; -9) dB;

Testing Company: Acoustic Works

Project number: 2024392 #

Location of test: Level 7 (of 15) residential building Ascot

Date of test: 3 October 2024

Client: Clever Choice Paxwood Pty Ltd

Sample area: 1m²

Room dimensions: 9.0m(L) x 4.0m(W) x 2.7m(H)