

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

Test number: 2

1: Sample
plus substrate

Clever Choice loose-laid Hybrid Plank 7.5mm, 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

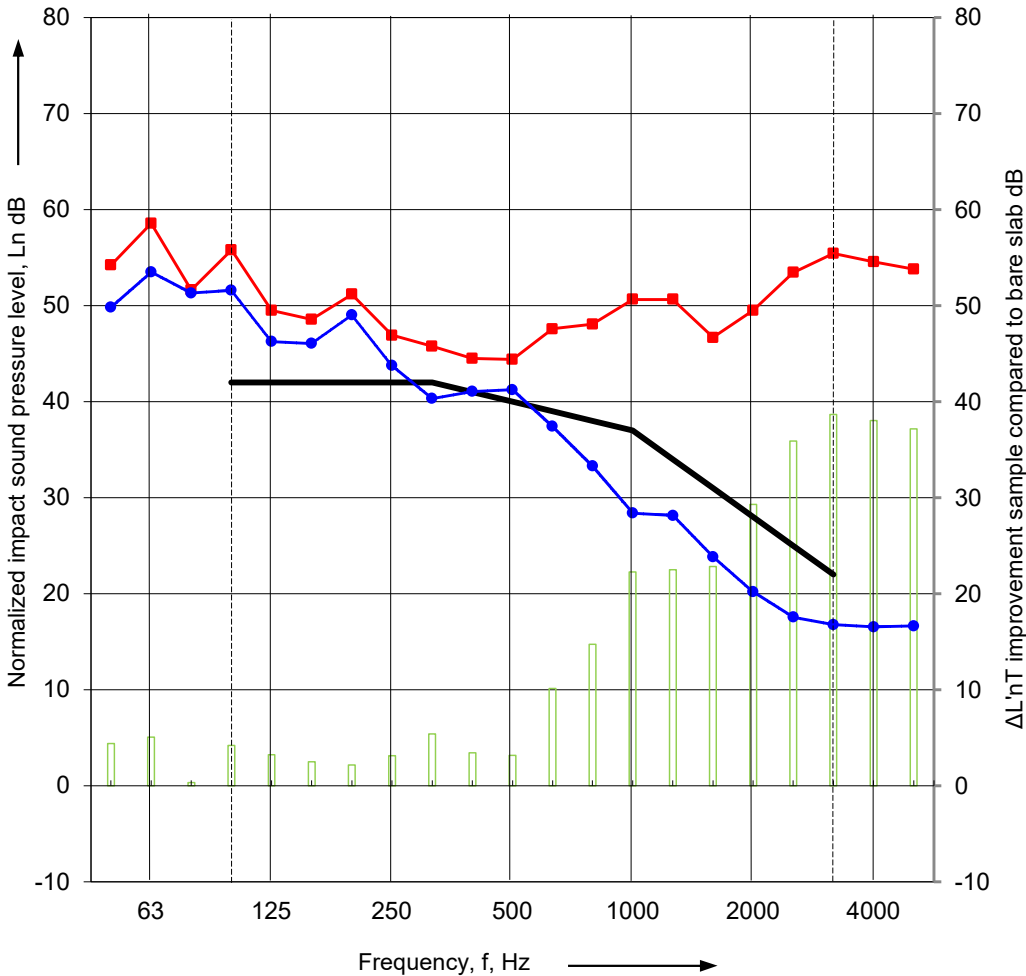
3: $\Delta L'nT$

$\Delta L'nT$ improvement due to Clever Choice loose-laid Hybrid Plank 7.5mm, Clever Sound 3mm underlay

$L'nT_{w,40}$ 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	50	54	4.4
63	53	59	5.1
80	51	52	0.3
100	52	56	4.2
125	46	50	3.3
160	46	49	2.5
200	49	51	2.2
250	44	47	3.2
315	40	46	5.4
400	41	44	3.4
500	41	44	3.2
630	37	48	10.2
800	33	48	14.7
1000	28	51	22.3
1250	28	51	22.5
1600	24	47	22.8
2000	20	50	29.3
2500	18	53	35.9
3150	17	55	38.6
4000	17	55	38.0
5000	17	54	37.1
L'nT,w	40	58	n/a
Ci	1	-11	n/a
Ci(50-2500)	4	-9	n/a
$\Delta L'nT_{w,40}$	n/a	n/a	18
AAAC Star	6	2	n/a
FIIC	63	40	n/a



Rating according to ISO 717-2

1: Sample plus substrate $L'nT_{w,40}$ (Ci ; Ci50-2500) = 40 (1 ; 4) dB;
2: Substrate only $L'nT_{w,40}$ (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)