

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

Test number: 1

1: Sample
plus substrate

Clever Choice loose-laid Hybrid Plank 7.5mm, no 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

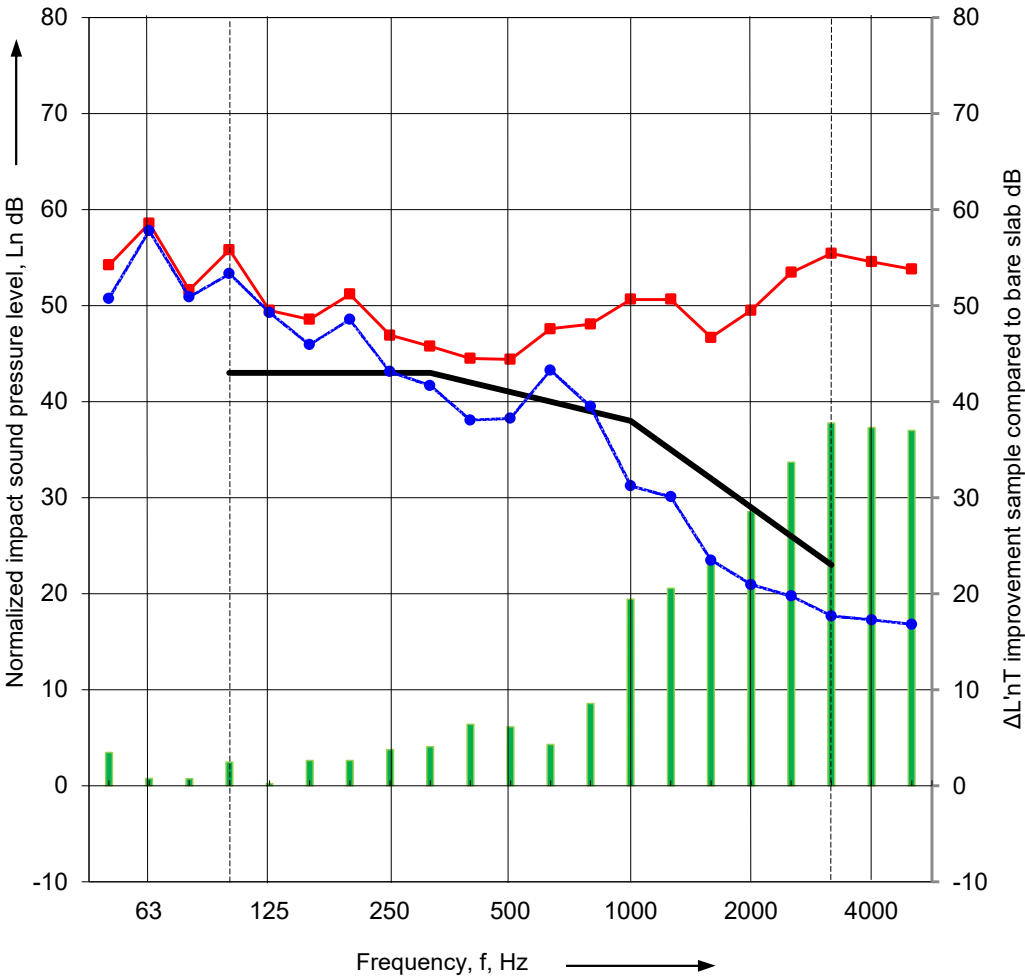
3: $\Delta L'nT$

$\Delta L'nT$ improvement due to Clever Choice loose-laid Hybrid Plank 7.5mm, no 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	3.5
63	58	59	0.8
80	51	52	0.7
100	53	56	2.5
125	49	50	0.2
160	46	49	2.6
200	49	51	2.6
250	43	47	3.8
315	42	46	4.1
400	38	44	6.4
500	38	44	6.1
630	43	48	4.3
800	39	48	8.6
1000	31	51	19.4
1250	30	51	20.6
1600	23	47	23.2
2000	21	50	28.6
2500	20	53	33.7
3150	18	55	37.7
4000	17	55	37.3
5000	17	54	37.0
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	62	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)