

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 Vinyl Plank 2.5mm thick, 3mm Clever Choice cork underlay, Sika Bond-105 contact adhesive, 200mm concrete slab, 120mm cavity with no insulation, 13mm plasterboard ceiling

2: Substrate

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

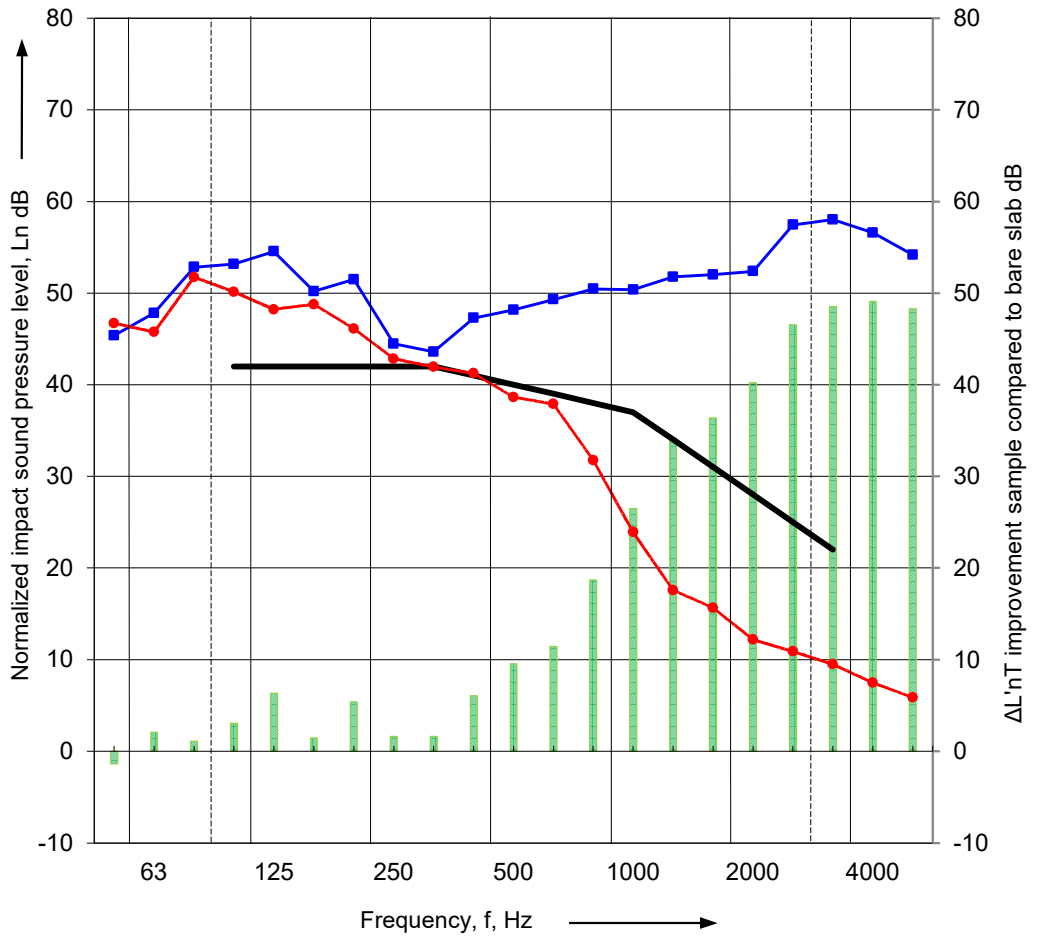
3: $\Delta L'nT$

$\Delta L'nT$ improvement due to Clever Choice Vinyl Plank 2.5mm, 3mm Clever Choice cork underlay, Sika Bond-105 contact adhesive

$L'nT,w$ 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	47	45	-1.3
63	46	48	2.1
80	52	53	1.1
100	50	53	3.0
125	48	55	6.3
160	49	50	1.4
200	46	52	5.4
250	43	44	1.6
315	42	44	1.6
400	41	47	6.0
500	39	48	9.5
630	38	49	11.4
800	32	50	18.7
1000	24	50	26.5
1250	18	52	34.2
1600	16	52	36.4
2000	12	52	40.2
2500	11	57	46.5
3150	9.5	58	48.5
4000	7.5	57	49.1
5000	5.9	54	48.3



$L'nT,w$	40	61	n/a
C_i	0	-13	n/a
$C_i(50-2500)$	3	-12	n/a
$\Delta L'nT,w$	n/a	n/a	21
AAAC Star	6	2	n/a
FIIC	63	35	n/a

Rating according to ISO 717-2

1: Sample plus substrate $L'nT,w$ (C_i ; $C_i50-2500$) = 40 (0 ; 3) dB;
 2: Substrate only $L'nT,w$ (C_i ; $C_i50-2500$) = 61 (-13 ; -12) dB;

Testing Company: Acoustic Works

Project number: 2023038

Location of test: Level 25 (of 39) residential building Broadbeach

Date of test: 14 February 2023

Client: Clever Choice Paxwood Pty Ltd

Sample area: 1m²

Room dimensions: 9.7m(L) x 6.4m(W) x 2.6m(H)