

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 Classic Laminate 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

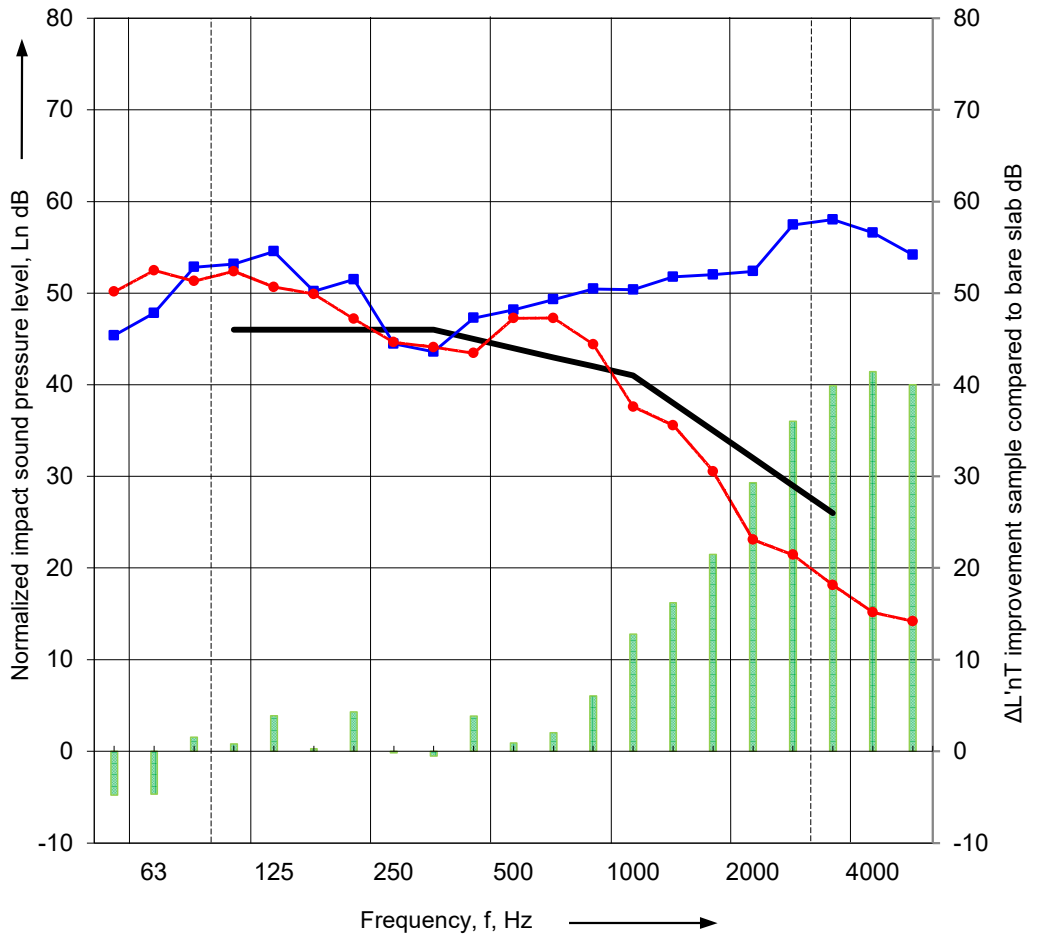
3: $\Delta L'nT$

$\Delta L'nT$ improvement due to Clever Choice Classic Laminate 12mm, 3mm Clever Choice Clever Sound underlay

$L'nT, w$ 44 curve

----- Frequency range according to the curve of reference values (ISO 717-2)
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Frequency f Hz	L'nT dB 1/3 octave		
	1	2	3
50	50	45	-4.8
63	52	48	-4.6
80	51	53	1.5
100	52	53	0.8
125	51	55	3.9
160	50	50	0.3
200	47	52	4.3
250	45	44	-0.2
315	44	44	-0.5
400	43	47	3.8
500	47	48	0.9
630	47	49	2.0
800	44	50	6.1
1000	38	50	12.8
1250	36	52	16.2
1600	31	52	21.5
2000	23	52	29.3
2500	21	57	36.0
3150	18	58	39.9
4000	15	57	41.4
5000	14	54	40.0



$L'nT, w$	44	61	n/a
C_i	-1	-13	n/a
$C_i(50-2500)$	1	-12	n/a
$\Delta L'nT, w$	n/a	n/a	17
AAAC Star	5	2	n/a
FIIC	59	35	n/a

Rating according to ISO 717-2

1: Sample plus substrate $L'nT, w (C_i ; C_i50-2500) = 44 (-1 ; 1)$ 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)