

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

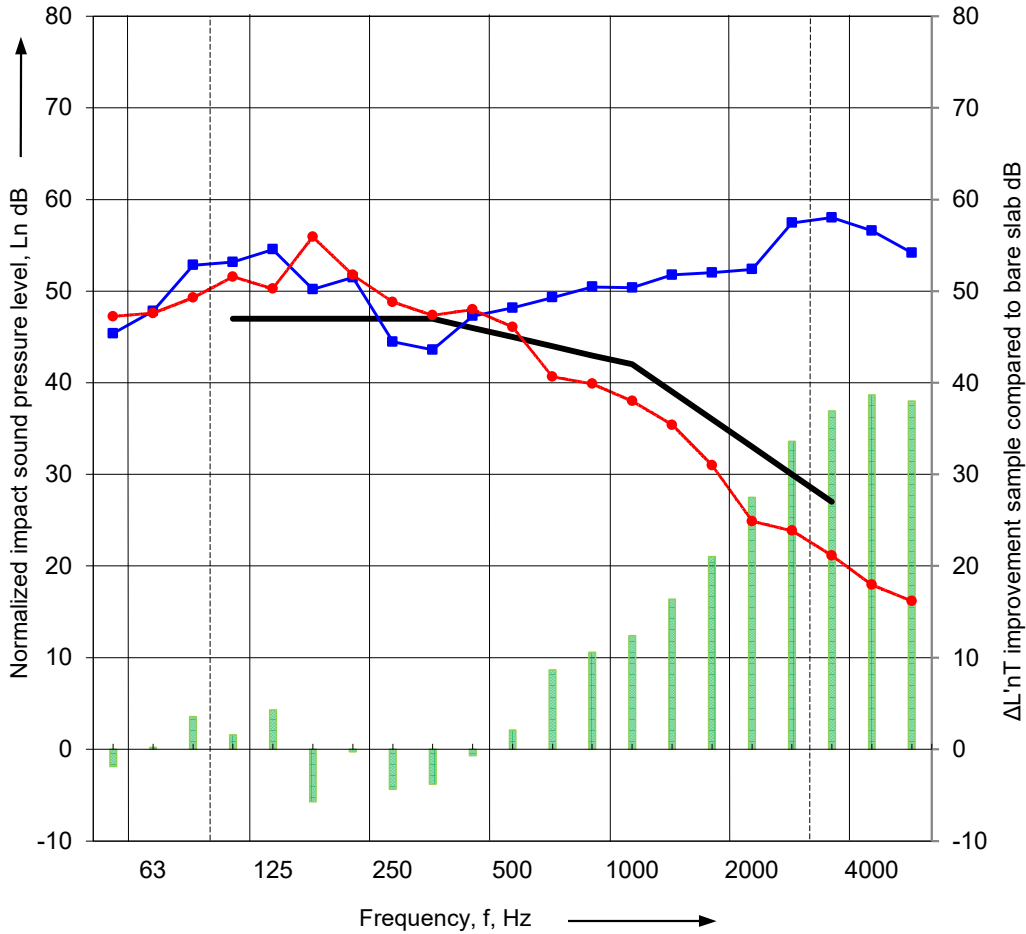
1: Sample plus substrate Clever Choice Engineered Exotic Australian Timber 14mm thick, 3mm Clever Choice cork underlay, 200mm concrete slab, 120mm cavity with no insulation, 13mm plasterboard ceiling

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 Engineered Exotic Australian Timber 14mm, 3mm Clever Choice cork underlay

$L'nT, w$  45 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	-1.9
63	48	48	0.2
80	49	53	3.6
100	52	53	1.6
125	50	55	4.3
160	56	50	-5.7
200	52	52	-0.3
250	49	44	-4.3
315	47	44	-3.8
400	48	47	-0.7
500	46	48	2.1
630	41	49	8.7
800	40	50	10.6
1000	38	50	12.4
1250	35	52	16.4
1600	31	52	21.0
2000	25	52	27.5
2500	24	57	33.6
3150	21	58	36.9
4000	18	57	38.6
5000	16	54	38.0



$L'nT, w$	45	61	n/a
$C_i$	0	-13	n/a
$C_i(50-2500)$	1	-12	n/a
$\Delta L'nT, w$	n/a	n/a	16
AAAC Star	5	2	n/a
FIIC	57	35	n/a

Rating according to ISO 717-2  
 1: Sample plus substrate  $L'nT, w (C_i ; C_i50-2500) = 45 (0 ; 1)$  dB;  
 2: Substrate only  $L'nT, w (C_i ; C_i50-2500) = 61 (-13 ; -12)$  dB;

Testing Company:	Acoustic Works	Client:	Clever Choice Paxwood Pty Ltd
Project number:	2023038	Sample area:	1m <sup>2</sup>
Location of test:	Level 25 (of 39) residential building Broadbeach	Room dimensions:	9.7m(L) x 6.4m(W) x 2.6m(H)
Date of test:	14 February 2023		