

## 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 Oak 14mm thick, 2mm Clever Choice IXPE Green 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

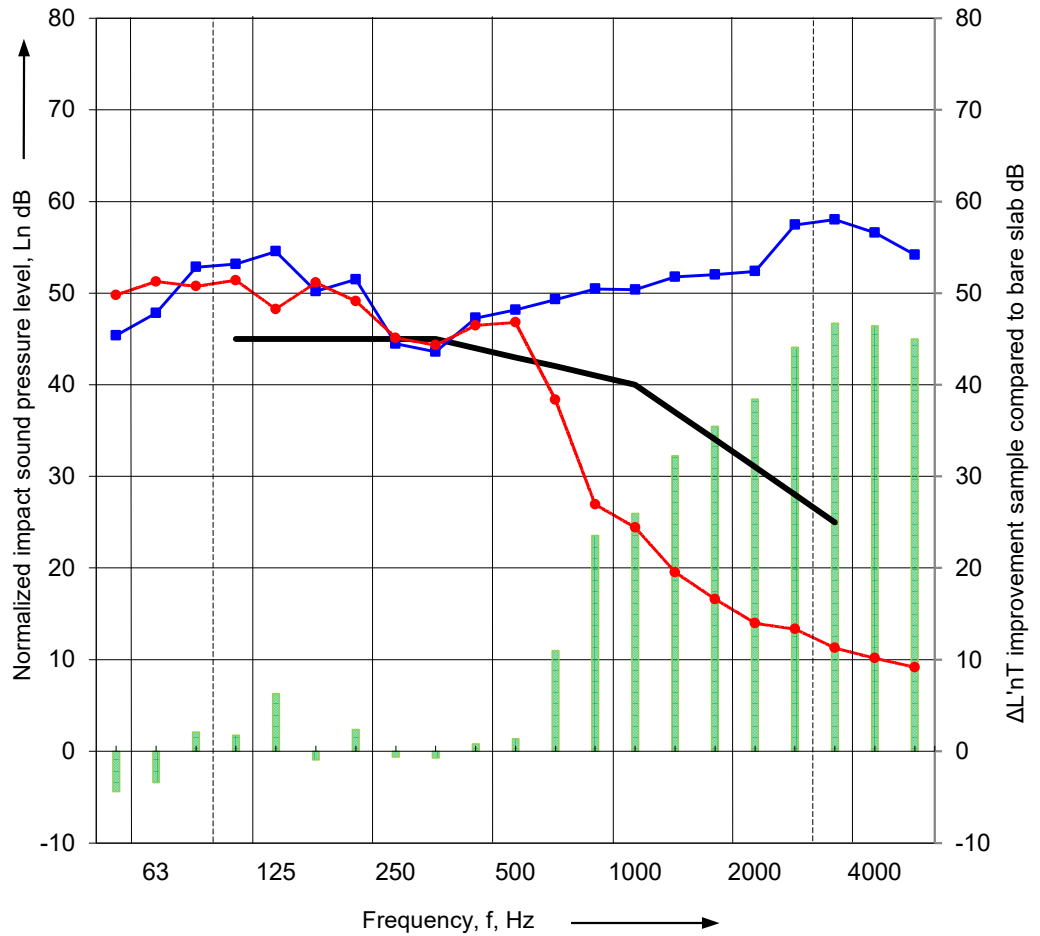
3:  $\Delta L'nT$

$\Delta L'nT$  improvement due to Clever Choice Oak 14mm, 2mm Clever Choice IXPE Green underlay

$L'nT,w$  43 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	45	-4.4
63	51	48	-3.4
80	51	53	2.1
100	51	53	1.8
125	48	55	6.3
160	51	50	-0.9
200	49	52	2.4
250	45	44	-0.6
315	44	44	-0.7
400	46	47	0.8
500	47	48	1.4
630	38	49	11.0
800	27	50	23.5
1000	24	50	26.0
1250	20	52	32.2
1600	17	52	35.4
2000	14	52	38.4
2500	13	57	44.1
3150	11	58	46.7
4000	10	57	46.4
5000	9.2	54	45.0



$L'nT,w$	43	61	n/a
$C_i$	0	-13	n/a
$C_i(50-2500)$	2	-12	n/a
$\Delta L'nT,w$	n/a	n/a	18
AAAC Star	5	2	n/a
FIIC	60	35	n/a

Rating according to ISO 717-2

1: Sample plus substrate      $L'nT,w$  (  $C_i$  ;  $C_i50-2500$  ) =     43 ( 0 ; 2 )     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: 1m<sup>2</sup>

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