

## 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, 5mm 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, 5mm Clever Choice cork underlay, Sika Bond-105 contact adhesive

$L'nT, w$  40 curve

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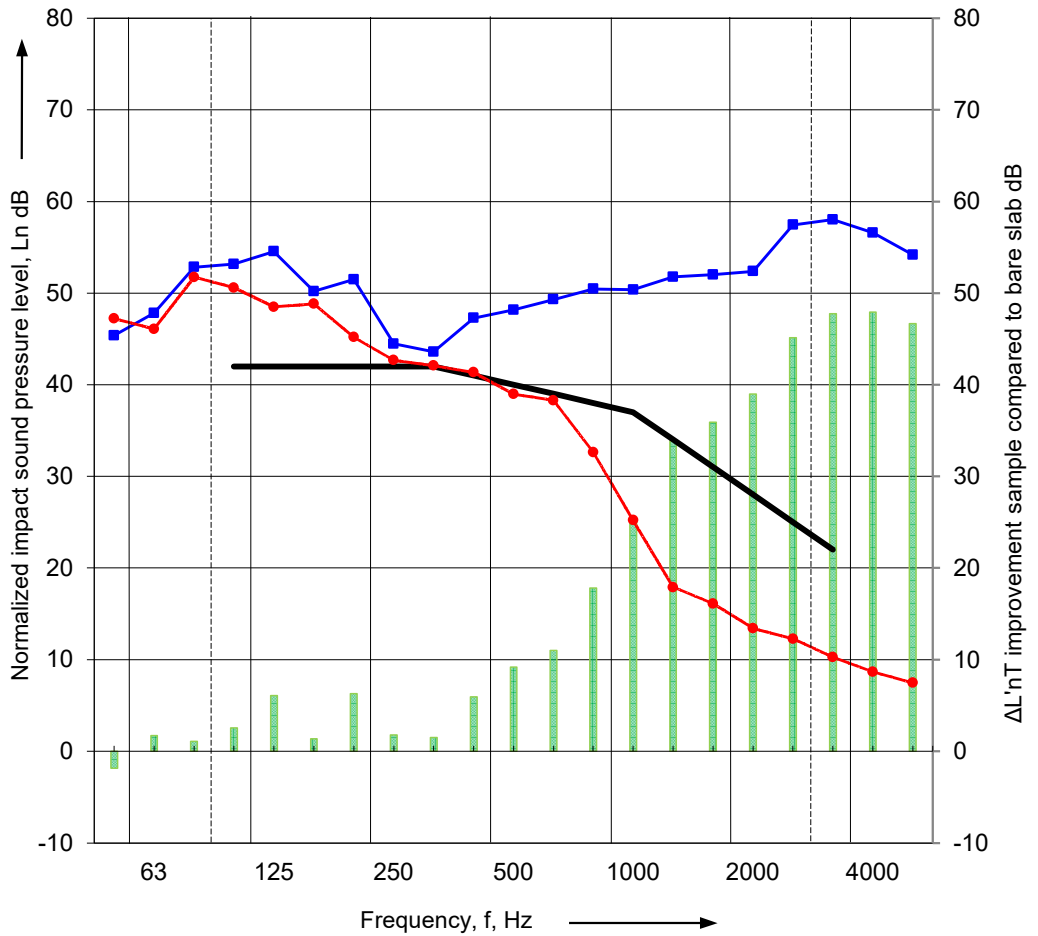
Frequency range according to the

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curve of reference values (ISO 717-2)

Frequency f Hz	L'nT dB 1/3 octave		
	1	2	3
50	47	45	-1.8
63	46	48	1.7
80	52	53	1.1
100	51	53	2.6
125	48	55	6.1
160	49	50	1.4
200	45	52	6.3
250	43	44	1.8
315	42	44	1.5
400	41	47	5.9
500	39	48	9.2
630	38	49	11.0
800	33	50	17.8
1000	25	50	25.2
1250	18	52	33.9
1600	16	52	35.9
2000	13	52	39.0
2500	12	57	45.2
3150	10	58	47.8
4000	8.7	57	47.9
5000	7.5	54	46.7



$L'nT, w$	40	61	n/a
$C_i$	1	-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	62	35	n/a

Rating according to ISO 717-2

1: Sample plus substrate      $L'nT, w (C_i ; C_i50-2500) = 40 (1 ; 3)$      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: 1m<sup>2</sup>

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