

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 no 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

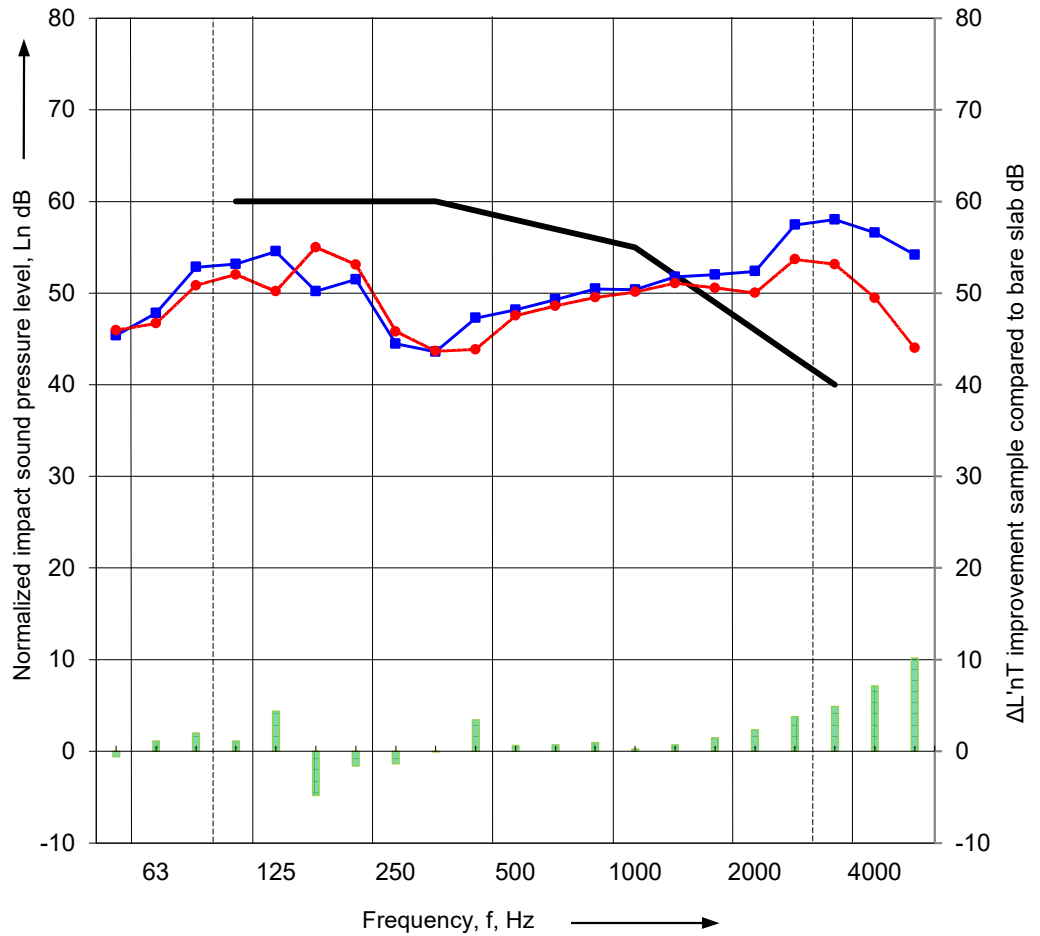
3: $\Delta L'nT$

$\Delta L'nT$ improvement due to Clever Choice Vinyl Plank 2.5mm no adhesive

$L'nT,w$ 58 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 | 46 | 45 | -0.6 |
| 63 | 47 | 48 | 1.1 |
| 80 | 51 | 53 | 2.0 |
| 100 | 52 | 53 | 1.1 |
| 125 | 50 | 55 | 4.4 |
| 160 | 55 | 50 | -4.8 |
| 200 | 53 | 52 | -1.6 |
| 250 | 46 | 44 | -1.3 |
| 315 | 44 | 44 | -0.1 |
| 400 | 44 | 47 | 3.4 |
| 500 | 48 | 48 | 0.6 |
| 630 | 49 | 49 | 0.7 |
| 800 | 50 | 50 | 0.9 |
| 1000 | 50 | 50 | 0.3 |
| 1250 | 51 | 52 | 0.7 |
| 1600 | 51 | 52 | 1.5 |
| 2000 | 50 | 52 | 2.4 |
| 2500 | 54 | 57 | 3.8 |
| 3150 | 53 | 58 | 4.9 |
| 4000 | 49 | 57 | 7.1 |
| 5000 | 44 | 54 | 10.2 |



| | | | |
|-----------------|-----|-----|-----|
| $L'nT,w$ | 58 | 61 | n/a |
| C_i | -11 | -13 | n/a |
| $C_i(50-2500)$ | -10 | -12 | n/a |
| $\Delta L'nT,w$ | n/a | n/a | 3 |
| AAAC Star | 2 | 2 | n/a |
| FIIC | 40 | 35 | n/a |

Rating according to ISO 717-2

1: Sample plus substrate $L'nT,w$ (C_i ; $C_i50-2500$) = 58 (-11 ; -10) 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)