

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, 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

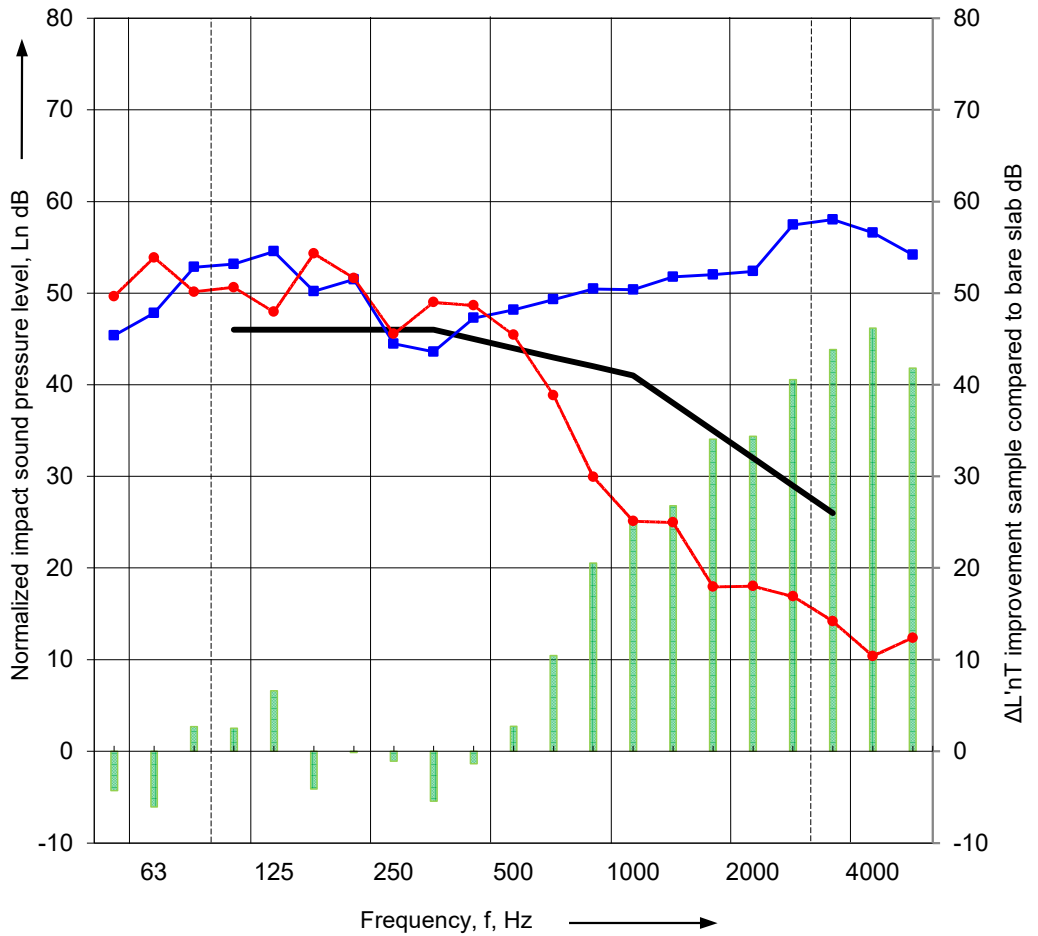
3: $\Delta L'nT$

$\Delta L'nT$ improvement due to Clever Choice Engineered Exotic Australian Timber 14mm, 2mm Clever Choice IXPE Green underlay

$L'nT,w$ 44 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 | -4.3 |
| 63 | 54 | 48 | -6.1 |
| 80 | 50 | 53 | 2.7 |
| 100 | 51 | 53 | 2.5 |
| 125 | 48 | 55 | 6.6 |
| 160 | 54 | 50 | -4.1 |
| 200 | 52 | 52 | -0.1 |
| 250 | 46 | 44 | -1.1 |
| 315 | 49 | 44 | -5.4 |
| 400 | 49 | 47 | -1.4 |
| 500 | 45 | 48 | 2.7 |
| 630 | 39 | 49 | 10.5 |
| 800 | 30 | 50 | 20.5 |
| 1000 | 25 | 50 | 25.3 |
| 1250 | 25 | 52 | 26.8 |
| 1600 | 18 | 52 | 34.1 |
| 2000 | 18 | 52 | 34.4 |
| 2500 | 17 | 57 | 40.5 |
| 3150 | 14 | 58 | 43.9 |
| 4000 | 10 | 57 | 46.2 |
| 5000 | 12 | 54 | 41.8 |



| | | | |
|-----------------|-----|-----|-----|
| $L'nT,w$ | 44 | 61 | n/a |
| Ci | 0 | -13 | n/a |
| Ci(50-2500) | 2 | -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 $L'nT,w$ (Ci ; Ci50-2500) = 44 (0 ; 2) dB;
 2: Substrate only $L'nT,w$ (Ci ; Ci50-2500) = 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)