



HARMONY

TIMBER FLOORS

INFORMATION DATA SHEET: HARMONY AUSTRALIAN COLLECTION SYDNEY BLUE GUM ENGINEERED TIMBER FLOORING (136MM X 14/3MM X 1830MM RL)

COMPLIANCE TESTING

Note that the Harmony Nordic Collection European Oak Engineered Timber Flooring is constructed out of the exact same materials as the Harmony Australian Collection Engineered Timber Flooring, with the only potentially changing factor, being the species of the veneer on the top wear layer. Hence in principle, the Harmony Nordic Collection European Oak Engineered Timber Flooring should perform similarly acoustically to the Harmony Australian Collection Engineered Timber Flooring. However, until actual testing for the Harmony Nordic Collection European Oak Engineered Timber Flooring is carried out, this is the only reference test result available.

Harmony Timber Floors Pty Ltd engaged Palmer Acoustics Australia Pty Ltd to perform field impact insulation tests in Unit A 10-4, 75 Brighton Parade, Southport, QLD 4215. For the purpose of this acoustic report, the test was conducted using the Harmony Australian Collection Sydney Blue Gum Engineered Timber Flooring sample on 5mm Blockout Plus Underlay via the Glue Down Method of Installation. Testing was conducted on the 25 May 2023.

(Parts extracted from Original Report conducted by Palmer Acoustics Australia Pty Ltd dated the 29 May 2023)

Measurement Procedures

Testing conformed to ISO 16283-2:2020 "Field measurement of impact sound insulation of floors".

Evaluation of the results to derive the single figure L'nT,w rating was conducted to ISO 717-2

2020 "Rating of insulation in buildings and of building elements – Part 2 Impact Sound Insulation".

Ambient sound levels were measured before testing.

The receiving room reverberation times were measured at various locations throughout the space, using the balloon-burst impulse test method, with the results averaged.

The Receiving room tapping sound levels were measured for 30 seconds at various locations throughout the space, with the results averaged.

Test results were analysed per ISO 16283 and ISO 717

(Extracted from Original Report conducted by Palmer Acoustics Australia Pty Ltd dated the 29 May 2023)

The following instruments were used in the evaluation.

Before and after each measurement session, the equipment was field calibrated and was within 0.2dB of the reference signal. All instruments hold a current calibration certificate from a NATA accredited calibration laboratory.

Figure 2.1 Noise Instrumentation

Description	Model No.	Serial No.
Octave Band Sound Level Meter	B&K Type 2250 1/3	2728498
Calibrator	B&K 4231	2153030
Tapping Machine	B&K Type 3207	2574503

(Parts extracted from Original Report conducted by Palmer Acoustics Australia Pty Ltd dated the 29 May 2023)

Results

Test System	L'nT,w
1. Bare Concrete Slab, Level 10 Unit A 10-4 Living area to Level 9 Unit A 9-4 Living area.	68
2. Harmony Australian Collection Sydney Blue Gum Engineered Timber Flooring on 5mm Blockout Plus Underlay via the Glue Down Method of Installation in the Living area.	47

(Parts extracted from Original Report conducted by Palmer Acoustics Australia Pty Ltd dated the 29 May 2023)

Criteria

The Body Corporate By-Laws of the building require that any installed floor system must provide a floor impact sound level of $L'nT,w \leq 50$.
(Extracted from Original Report conducted by Palmer Acoustics Australia Pty Ltd dated the 29 May 2023)

Conclusion

The Sample floor installed in the UA10-4 Living area has achieved $L'nT,w$ 47, which complies with the Body Corporate by-law requirements ($L'nT,w \leq 50$). It is our experience that a sample test will normally test to within ± 1 dB of the fully laid floor.
(Extracted from Original Report conducted by Palmer Acoustics Australia Pty Ltd dated the 29 May 2023)

It is to be noted that the field test acoustic ratings provided in the report are indicative and are to be used for comparative purposes only. Acoustic ratings will vary and are dependent on a number of factors including the following:

- Thickness of the concrete slab
- Density of the concrete slab
- Presence or absence of a ceiling cavity
- Position of the concrete reinforcement
- Presence and placement of structural walls
- Room volume
- Internal layout

Acoustic ratings will vary between buildings and between rooms. It is important to consult an acoustic engineer or industry professional in order to confirm that the selected product, conforms to the requirements laid out by the body corporate or the building's acoustic requirements.

The above information is to be read in conjunction with the actual field impact test report carried out by Palmer Acoustics Australia Pty Ltd in Unit A 10-4, 75 Brighton Parade, Southport, QLD 4215. The actual test report is available on request.

Disclaimer: Harmony Timber Floors Pty Ltd acting in good faith, has taken all practicable measures to ensure the correctness and credibility of the above information and to the extent as permitted by law, Harmony Timber Floors Pty Ltd will not be held liable or accountable for any inexactness, exclusions or errors in relation to this information, including any action taken in support of this information. Products are to be installed in accordance with manufacturer's guideline and industry best practices.