



HARMONY

TIMBER FLOORS

INFORMATION DATA SHEET: HARMONY HAMPTONS COLLECTION ISLAND SANDS AND BEACH HOUSE EUROPEAN OAK ENGINEERED TIMBER FLOORING (190MM X 14/2MM X 1900MM RL)

COMPLIANCE TESTING

Harmony Timber Floors Pty Ltd engaged Palmer Acoustics Australia Pty Ltd to perform field impact insulation tests at Unit 35 Level 17 The Esplanade, 146 The Esplanade, Burleigh Heads, QLD, 4220. The tests were conducted on the Panel Island Sands colour 14/2mm sample installed on 5mm Blockout underlay via the Floating Method of Installation; on the Panel Beach House colour 14/2mm sample installed on 5mm Gold Class underlay via the Floating Method of Installation; and on the Panel SPC Classic Collection Hybrid Vinyl French Grey colour sample via the Floating Method of Installation in the Living Room of Unit 35 on Level 17. The measurements were conducted in the Living Room of Unit 33 on level 16, directly beneath the Living Room of Unit 35. Floor systems tested were as follows: Test 1 – Living Room – Bare Concrete Slab •**Test 2 – Living Room – Panel Island Sands colour 14/2mm sample installed on 5mm Blockout underlay via the Floating Method of Installation** •**Test 3 – Living Room – Panel Beach House 14/2mm colour sample installed on 5mm Gold Class underlay via the Floating Method of Installation** •Test 4 – Living Room – SPC Classic Collection Hybrid Vinyl French Grey colour sample via the Floating Method of Installation.
(Parts extracted from Original Report conducted by Palmer Acoustics Australia Pty Ltd dated the 08 October 2020)

Measurement Procedures

Testing was conducted in conformance with ISO 16283-2:2015 “Field measurement of impact sound insulation of floors”. The evaluation of the results, to derive the single figure L'nT,w rating, was conducted to ISO 717-2 2013 “Rating of insulation in buildings and of building elements – Part 2 Impact Sound Insulation”.

Each floor was tapped in multiple different positions with the receiving space's sound measurements averaged over 2 x 30 seconds periods - per test position.

Ambient sound levels were measured before the testing with the results included in the assessment as per standard.

Receiving room reverberation measurements were performed, utilising Norsonics Sound Analyser Nor140, at multiple locations throughout the space, with the results arithmetically averaged. 2.2 Instrumentation.

(Extracted from Original Report conducted by Palmer Acoustics Australia Pty Ltd dated the 08 October 2020)

The following instruments were used in the evaluation.

- Norsonics Nor140 Sound Analyser (serial number 1403252)
- Look Line tapping machine EM50 (serial number TM.14031)
- B • & K 4230 Calibrator #3 (serial number 1638750)

The sound level measuring equipment was field calibrated before and after each measurement session and was found to be within 0.2dB of the reference signal. All instrumentation used in this assessment holds a current calibration certificate from a NATA accredited calibration laboratory.

(Extracted from Original Report conducted by Palmer Acoustics Australia Pty Ltd dated the 08 October 2020)

Results

Test System	L'nT,w
Test 1 – Living Room – Bare Concrete Slab	73
Test 2 – Living Room – Panel Island Sands colour 14/2mm sample + 5mm Blockout underlay via the Floating Method of Installation	56
Test 3 – Living Room – Panel Beach House colour 14/2mm sample + 5mm Gold Class underlay via the Floating Method of Installation	56
Test 4 – Living Room – SPC Hybrid Vinyl French Grey colour sample via the Floating Method of Installation	53

(Parts extracted from Original Report conducted by Palmer Acoustics Australia Pty Ltd dated the 08 October 2020)

Criteria

Test Certificates detailing the 1/3 octave band results are provided in Appendix C to this report in terms of L'nT,w in accordance with ISO 717 - 2: 2013.

The L'nT,w term is used in the Building Code of Australia (BCA), see also Appendix A. It should be noted that L'nT,w is a weighted room noise level and that a lower number represents better performance.

(Extracted from Original Report conducted by Palmer Acoustics Australia Pty Ltd dated the 08 October 2020)

Conclusion

The Panel Island Sands colour 14/2mm sample installed on 5mm Blockout underlay via the Floating Method of Installation, the Panel Beach House colour 14/2mm sample installed on 5mm Gold Class underlay via the Floating Method of Installation, as well as the SPC Hybrid Vinyl French Grey colour sample installed via the Floating Method of Installation in the Living Room of Unit 35 on level 17, all achieved L'nT,w ≤ 56, which complies with the Body Corporate requirements (i.e. L'nT,w ≤ 56).

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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 attached field impact test report carried out by Palmer Acoustics Australia Pty Ltd at Unit 35 Level 17 The Esplanade, 146 The Esplanade, Burleigh Heads, QLD, 4220, on the 08 October 2020. 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.

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