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IMPACT NOISE TESTING OF HARD FLOOR COVERING
ELEPHANT FLOORS AUSTRALIA – SUPERHYBRID 7.5mm & SUPERLAY UNDERLAY

Contrix Pty Ltd was requested to perform an impact noise assessment on the chosen hard floor covering system within the residential apartment in Rhodes NSW.

The aim of conducting the impact noise tests was to determine the acoustic rating of the selected hard floor covering system being SuperHybrid 7.5mm with Superlay Underlay, and the results are to be used for design guidance only.

All measurements and assessment procedures were conducted in compliance with the standards:

- AS/NZS ISO 140.7:2006, titled "Field measurements of impact sound insulation of floors", and
- ISO 717.2-2004, titled "Rating of sound insulation in buildings and of building elements".

Tests were conducted in the open living areas of the residential units in Rhodes NSW on Friday, 12th September 2025. The receiver space is located directly below the noise source room and has the same floor layout.

Based on our test results and calculations, the selected flooring system tested within the residential apartment in Rhodes NSW achieves the acoustical ratings of:

- Measured Weighted Standardised Sound Level Different, L'_{nTw} 43
- Field Impact Insulation Class, FIIC 63
- AAAC Star Rating 5

A summary page of testing results can be found on page 2, followed by a detailed technical data sheet in the subsequent page.

IMPACT NOISE INSULATION FIELD TEST REPORT SUMMARY

Testing Date:	Friday 12th September 2025
Prepared For:	Elephant Floors Australia
Testing Location:	Residential Apartment in Rhodes NSW
Flooring System Tested:	SuperHybrid 7.5mm with Superlay Underlay
Separating partition system:	180mm to 200mm thick reinforced concrete slab 80mm to 120mm Suspended ceiling cavity 10mm or 13mm plasterboard ceiling
Source Room:	Living area of on the upper floor level
Receiver Room:	Living area of on the lower floor level (directly below)

Test Results					
Floor covering	**Underlay**	**Acoustic Performance**			
		L'_{nTw}	**FIIC**	**AAAC Star Rating**	**Δ L'_{nTw}**
SuperHybrid 7.5mm	Superlay Underlay	**43**	**63**	**5**	**15**

Sound Source:	Tapping Machine TM004 S/N 59005
Measuring Device:	NTi-XL2 precision spectrum analyser S/N A2A-11580-E0

Measurements were conducted in accordance with:

- Australian Standard AS ISO 717.2-2004, Acoustics - Rating of sound insulation in buildings and of building elements;
- ASTM E1007-14 - Standard Test Method for Field Measurement of Tapping Machine Impact Sound Transmission Through Floor-Ceiling Assemblies and Associated Support Structure", and
- International Standard ISO 16283-02:2015, Acoustics – Field measurement of sound insulation in buildings and of building elements.

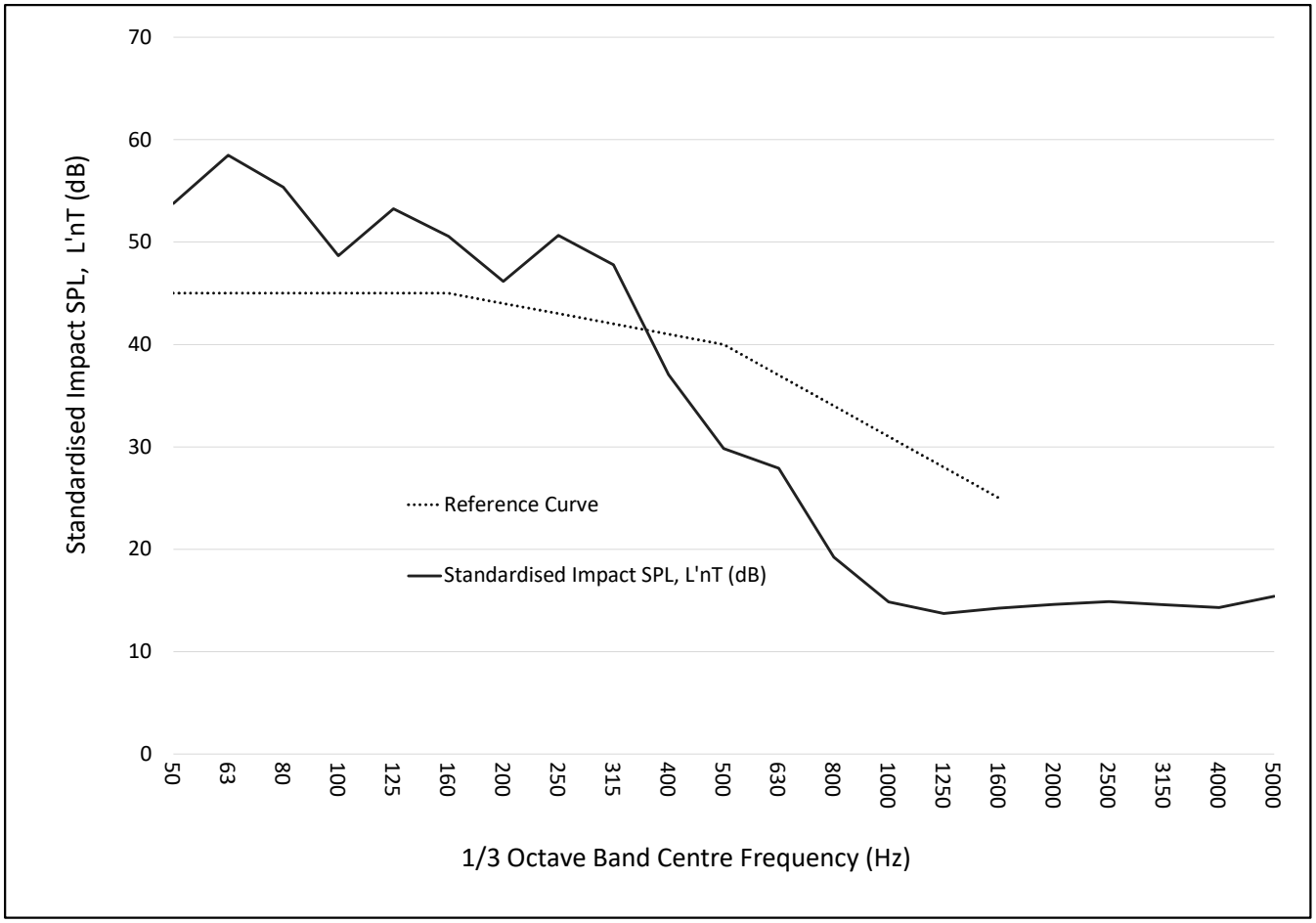
Tested By:	 Michael Fan Chiang BE (Mech)., MAAS Consultant	**Report Date:**	17th September 2025

Disclaimers:

1. The information provided in this report relates to sound insulation of floor covering only.
2. Contrix Pty Ltd does not supply and install any flooring products, therefore, not responsible or liable for any product defects.
3. This testing report is site-specific and only applies to the subject premise and product(s) tested as specified in this document.
4. It is imperative to strictly adhere to the installation guidelines provided by the supplier or installation instructions (if any). Contrix Pty Ltd bears no liability in the event of non-compliance with these instructions.
5. The acoustic rating typically varies by up to 3 L'nTw rating points, influenced by the placement of the tapping machine, testing locations within the unit, and the junction details between the floorboards, skirting, scotia, and walls. Many strata management and certifying authorities permit a tolerance of 3 L'nTw rating points. Furthermore, deviations of up to 5 L'nTw rating points have been recorded in rare cases.
6. Proper edge treatment is required at the junction between floorboards and scotia or skirting boards. This can be achieved by maintaining a 5mm expansion gap and inserting foam rods or underlay offcuts to effectively isolate the floorboards from adjacent surfaces.
7. The use of any glue or adhesive can negatively impact the acoustic rating. Based on previous testing data, a degradation of up to 5 L'nTw has been recorded.
8. The test results detailed in this report are intended solely for use as design guidelines and should not be interpreted as formal certification of the tested products.
9. It is highly recommended to engage a qualified acoustic consultant (Contact Contrix Pty Ltd on +61 425 240 555 or other qualified consultants) to conduct in-situ testing (field testing) prior to flooring installation.

Technical Data Sheet - Standardised Impact Sound Pressure Level
Impact Sound Insulation Testing of Floorboards
Elephant Floors Australia - SuperHybrid 7.5mm & Superlay Underlay

Testing Date: Friday, 12 September 2025
Test No.: N/A
Client/Owner: Elephant Floors Australia
Testing Location: Residential Apartment in Rhodes NSW
Floor Finish: SuperHybrid 7.5mm (Built-in underlay)
Acoustic Underlay: Superlay Underlay
Sub-base & ceiling below: 180mm to 200mm thick reinforced concrete slab
80mm to 120mm suspended ceiling cavity with 10mm or 13mm plasterboard ceiling
Source Room: Living area on the upper floor level
Receiver Room: Living area on the lower floor level directly below
Approx. receiver room vol: 68.63



1/3 Octave Band Centre Frequency (Hz)	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
L'nT [dB]	53.8	58.5	55.4	48.7	53.3	50.6	46.2	50.7	47.8	37.0	29.8	27.9	19.2	14.9	13.7	14.2	14.6	14.9	14.6	14.3	15.4

Acoustical Rating		Reference/Guildine
Measured Weighted Standardised Sound Level Difference, **L'nTw**	**43**	AS ISO 717.2 - 2004
Field Impact Isolation Class, **FIIC**	**63**	ASTME1007-14
AAAC **Star Rating**	**5**	AAAC Guideline

Testing Date :	Friday, 12 September 2025	**Contrix Pty Ltd**
Reference No.:	3934	ABN: 95 632 593 625
Testing Organisation:	Contrix Pty Ltd	E-mail: info@contrix.com.au
Tested By:	Michael Fan Chiang	Tel: +61 425 240 555
	BE(Mech)., MAAS	www.contrix.com.au/acoustics

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