

# IMPACT NOISE TESTING OF HARD FLOOR COVERING WONDERWOOD 8mm HYBRID FLOORING

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

The aim of conducting this impact noise test was to determine the acoustic rating of the selected hard floor covering (Wonderwood 8mm Hybrid Flooring) 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".

Based on our test results and calculations, Wonderwood 8mm Hybrid Flooring tested within the residential apartment in Breakfast Point achieves the acoustical ratings of:

- Measured Weighted Standardised Sound Level Different, L'nTw 42
- Field Impact Insulation Class, FIIC 65
- 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 WONDERWOOD 8mm HYBRID FLOORING

Testing Date:	Saturday 24 <sup>th</sup> February 2024		
Prepared For:	Wonderwood Floors		
Testing Location:	Residential Apartment in Breakfast Point NSW		
Flooring System	Wonderwood 8mm Hybrid Flooring		
Tested:			
Separating	Reinforced concrete slab		
partition system:	Suspended ceiling cavity		
-	Plasterboard ceiling		
Source Room:	Living area of on level 5		
Receiver Room:	Living area of on level 4 (directly below)		

		Acoustic Performance				
Floor covering	Underlay	Ľ'nīw	FIIC	AAAC Star Rating	Δ L' <sub>nTw</sub>	
Wonderwood 8mm Hybrid Flooring	Built-in	42	<b>65</b>	5	16	

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:		Report Date:	27 <sup>th</sup> February 2024
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	Michael Fan Chiang BE (Mech)., MAAS		
	Consultant		

#### Disclaimers:

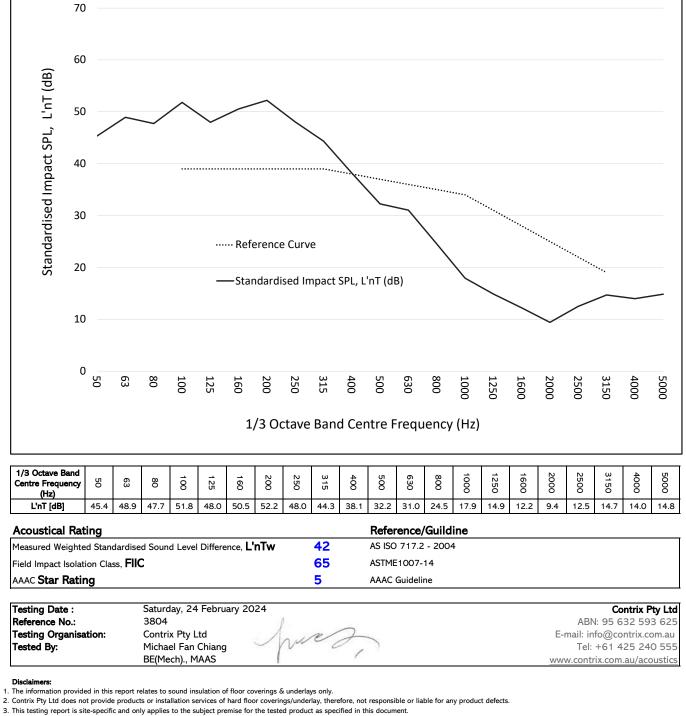
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- 1. The information provided in this report relates to sound insulation of floor covering only.
- 2. Contrix Pty Ltd does not supply and install any flooring products, therefore, not responsible or liable for any product defects.
- It is imperative 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.
- 4. This testing report is site-specific and only applies to the subject premise and product(s) tested as specified in this document.
- 5. The acoustic rating may vary up to 3 rating points depending on 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 or certifying authorities have allowed a tolerance of 3 acoustic rating points.
- 6. 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 Wonderwood 8mm Hybrid Flooring

Testing Date: Saturday, 24 February 2024 Test No.: N/A Client/Owner: Wonderwood Floors Testing Location: Residential Apartment in Breakfast Point NSW Floor Finish: Wonderwood 8mm Hybrid Flooring Acoustic Underlay: Built-in Sub-base & ceiling below: Reinforced concrete slab Suspended ceiling cavity with plasterboard ceiling Source Room: Living area on level 5 Receiver Room: Living area on level 4

Approx. receiver room vol: 51.01



4. It is imperative to strictly adhere to the installation guidelines provided by the supplier or installation instructions. Contrix Pty Ltd bears no liability in the event of non-compliance with these instructions 5. The acoustic rating may vary up to 3 rating points depending on 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 or certifying authorities have allowed a tolerance of 3 L'nTw rating points.