# Technical Summary

## Part 1 : Dimension

| | | |
|---|---|---|
| **Width** | 238 (Oak Designs)<br>196 (Australian Designs) | mm |
| **Length** | 1518 | mm |
| **Thickness** | 10.3 | mm |
| **Boards Per Box** | 6 | planks |
| **Box Size** | 2.16769sqm (Oak Designs)<br>1.78518sqm (Australian Timber Designs) | sqm |

## Part 2 : General Data

| | |
|---|---|
| **Click Lock System** | 4 Side, Angle-to-Angle |
| **Core Type** | Waterproof HDF Core |
| **Wear Resistance** | Aluminium Oxide<br>EN33 / AC5 |
| **Finish** | 3D EIR (Oak) or Anti-Slip Matte (Australian) |
| **Installation Method** | Floating Installation |
| **Stain Resistant** | Yes |
| **Fade Resistant** | Yes |
| **Slip Resistance (AS 4586:2013 Appendix A)** | P3 (Reported SRV 39) |
| **Impact Sound Resistance** | 31 Lntw (AAAC 6 Star) - as a guidance only |
| **Box Weight** | 17.3KG (Oak - wide board), 14.5KG (Aus - standard board) |
| **Profile** | Micro V Groove |
| **Pattern Repeat** | Double Pattern Repeat - 10 - 12 pure non repeating planks, greater quantity if variants are included. |

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# Technical Summary

## Part 3 : Warranty

| | | |
|---|---|---|
| **General Residential** | 25 | Years |
| **Light Commercial** | 5 | Years |

# Part 4 : Fire & Smoke Test Certificate

Test Method : AS/ISO 9239-1:2003 Reaction to Fire Tests for Floorings. Determination of the Burning Behaviour using a Radiant Heat Source.

**Reaction to Fire Tests for Floorings. Determination of the Burning Behaviour using a Radiant Heat Source**

| | | | | | |
|---|---|---|---|---|---|
| Date of Sample Arrival | | 21-10-2025 | | | |
| Date Tested | | 21-11-2025 | | | |
| CHF Value | 1 | 2 | 3 | Mean | |
| Length | ≥11.0 | ≥11.0 | ≥11.0 | ≥11.0 | kW/m² |
| Width | ≥11.0 | - | - | - | kW/m² |
| Smoke Value | 1 | 2 | 3 | Mean | |
| Length | 4 | 2 | 5 | 4 | %.min |
| Width | 1 | - | - | - | %.min |
| Observation | | | | | |
| Blistering | | | | Yes | |

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test, they are not intended to be sole criterion for assessing the potential fire hazard of the product in use.

Sample was conditioned in accordance with BSEN 13238:2010 at a temperature of 23±2°C and relative humidity of 50±5% for a minimum of 48 hours prior to testing.

Results in accordance with section 8.4 have not been included in the report. They are available upon request.

Each specimen was clamped to a substrate of 6mm thick fibre reinforced cement board prior to testing.

HF30 not reported as flame out time occurred before 30 minutes.

NATA

Accredited for compliance with ISO/IEC 17025 - Testing
Accreditation Numbers: 983, 985, and 1356

Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

Fiona McDonald
APPROVED SIGNATORY

AWTA LIMITED

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

# Part 5 : Wet Slip Test Certificate

Test Method : AS 4586: 2013 Appendix A (Wet Pendulum Test)

SlipCheck
CREATING SAFE ENVIRONMENTS
www.FloorSlipTest.com.au

Unit 4/40 Bessemer St
Blacktown NSW 2148
Phone 02 9621 3706
info@SafeEnvironments.com.au
NATA

7 June 2023

## Test Report No. R28934.1b

### Slip Resistance Classification of New Pedestrian Surface Materials

**AS 4586-2013 Appendix A (Wet Pendulum Test)**

The slip resistance classification has been determined for unused surfaces under specific conditions. Factors such as usage, cleaning systems, applied coatings and patterns of wear may affect the characteristics of the surface after classification. Standards Australia Handbook 198:2014 *Guide to the specification and testing of slip resistance of pedestrian surfaces* provides guidance for the selection of slip resistant pedestrian surfaces classified in accordance with AS 4586-2013. It is recommended that this test report be read in conjunction with AS 4586, HB 197 & HB 198.

| | | | |
|---|---|---|---|
| Test conducted according to: | AS 4586:2013 Appendix A | | |
| Sampling Procedures: | Performed by client and tested as received. | | |
| Location: | 4/40 Bessemer Street, Blacktown NSW 2148 | | |
| Conducted by: | Yuliana Vargolomova | | |
| Date: | 02 June 2023 | Temperature: | 18°C |
| Sample: | Unfixed | Cleaning: | None |
| Rubber slider used: | Slider 96 | Conditioned: | Grade P 400 paper dry followed by wet lapping film |
| Slope of specimen: | Tested on a flat level surface | | |
| Direction of Test: | With Profile | | |

| | Specimen 1 | Specimen 2 | Specimen 3 | Specimen 4 | Specimen 5 |
|---|---|---|---|---|---|
| Mean BPN of last 3 swings: | 43 | 45 | 36 | 34 | 39 |

| | |
|---|---|
| **Reported SRV of Sample:** | **39** |
| **Class:** | **P3** |

The expanded uncertainty ($U_{95}$) at the 95% level of confidence with a coverage factor (k) of 2 has been estimated to be 3 BPN or 8 %, whichever is the greater; sampling uncertainty has not been included. The expanded uncertainty should be considered when interpreting results or assessing conformity. Results relate only to items tested.

# Part 6 : Formaldehyde Testing

Test Method : AS ASTM D6007 - 22 small scale chamber method

intertek
Total Quality. Assured.

## Test Report

Issue Date: 2023-01-31 Intertek Report No. 230104002SHF-003

**Test Items, Method and Results:**

Test Item: Formaldehyde content test

Test Method: As per ASTM D6007-22 small scale chamber method, formaldehyde content was detected by UV-VIS spectrophotometer.

Test condition:

| | |
|---|---|
| Chamber type: | 1 $m^3$ stainless steel chamber |
| Climatic conditions: | 25°C, 50% R.H. |
| Air exchange rate: | 0.5 $h^{-1}$ |
| Loading factor: | 0.43 $m^2/m^3$ |
| Test result: | ND |

Note:

1. ppm = parts of formaldehyde per million parts air
2. Detection limit = 0.02 ppm
3. ND = Not detected (less than the detection limit)
4. The sample was conditioned at 24±3 °C, 50±5% relative humidity for seven days before the testing.
5. Test location: Central Chemical Lab of Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Address: E701. No. 7-2. Caipin Road, Guangzhou Science City, GETDD Guangzhou, China 510663

# Part 7 : Acoustic Test (Royal 10mm Extreme Hybrid Flooring + ECFS)

| System Tested | $L'_{nTw}$ [3] | FIIC [4, 5] | AAAC [6] |
|---|---|---|---|
| **Bare Concrete Floor (ECFS only) - for comparison purposes only** | 55 | 56 | 3 |
| **Royal 10mm Extreme + ECFS** | 31 | 80 | 6 |

**Standardised impact sound pressure level according to ISO 16283-2**
**Field measurements of impact sound insulation of floors**

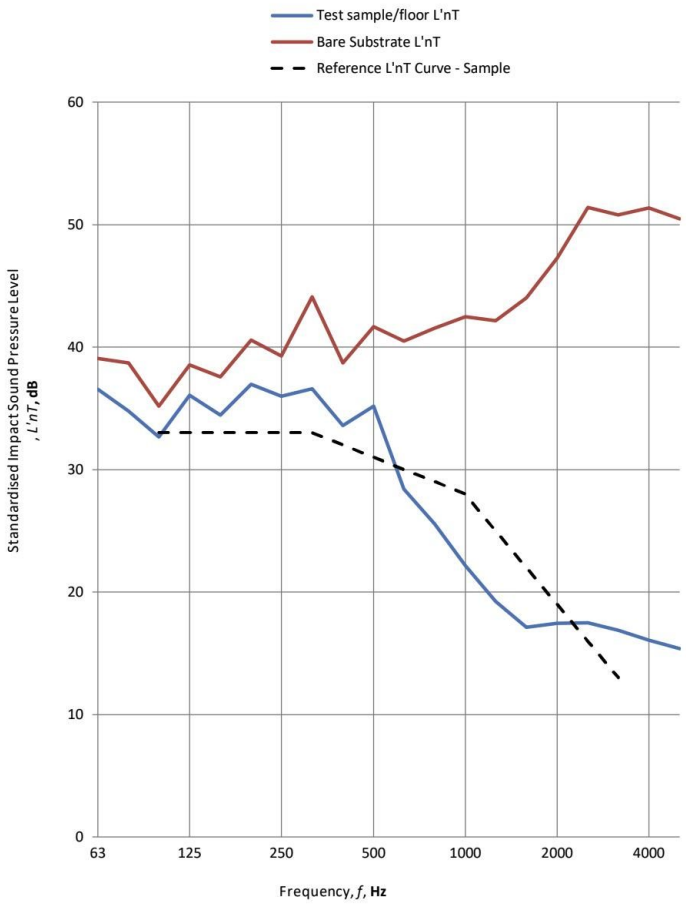
Client : Everfloor VBL Import Pty Ltd
Test site: Residential Unit in Forest Lodge

Date of Test : Monday, 24 August 2026

Description and identification of the building construction and test arrangements, direction of measurement :
Test 01: 10.3 mm hybrid flooring over ECFS

Receiving room volume : 26.5356

| Frequency $f$ Hz | L'nT Test sample dB | Bare L'nT dB substrate dB |
|---|---|---|
| 50 | 39.9 | 43.6 |
| 63 | 36.6 | 39.1 |
| 80 | 34.8 | 38.7 |
| 100 | 32.7 | 35.1 |
| 125 | 36.1 | 38.6 |
| 160 | 34.5 | 37.6 |
| 200 | 37.0 | 40.6 |
| 250 | 36.0 | 39.3 |
| 315 | 36.6 | 44.1 |
| 400 | 33.6 | 38.7 |
| 500 | 35.2 | 41.7 |
| 630 | 28.4 | 40.5 |
| 800 | 25.6 | 41.6 |
| 1 000 | 22.2 | 42.5 |
| 1 250 | 19.2 | 42.1 |
| 1 600 | 17.1 | 44.0 |
| 2 000 | 17.5 | 47.3 |
| 2 500 | 17.5 | 51.4 |
| 3 150 | 16.9 | 50.8 |
| 4 000 | 16.1 | 51.4 |
| 5 000 | 15.4 | 50.5 |
| $L_{'nT,w}$ | 31 | 55 |
| $C_i$ | -1 | -14 |
| $L_{'nT,w} + C_i$ | 29 | 40 |
| $\Delta L_{'nT,w}$ | 24 | |
| FIIC | 80 | 56 |
| AAAC Star | 6 Star | 3 Star |




Rating according to ISO 717-2
Evaluation based on field measurement results obtained in one-third-octave bands by an engineering method.

Project No. : 3523
Issue Date : Tuesday, 25 August 2026

Testing organisation : Koikas Acoustics Pty Ltd
Signature :

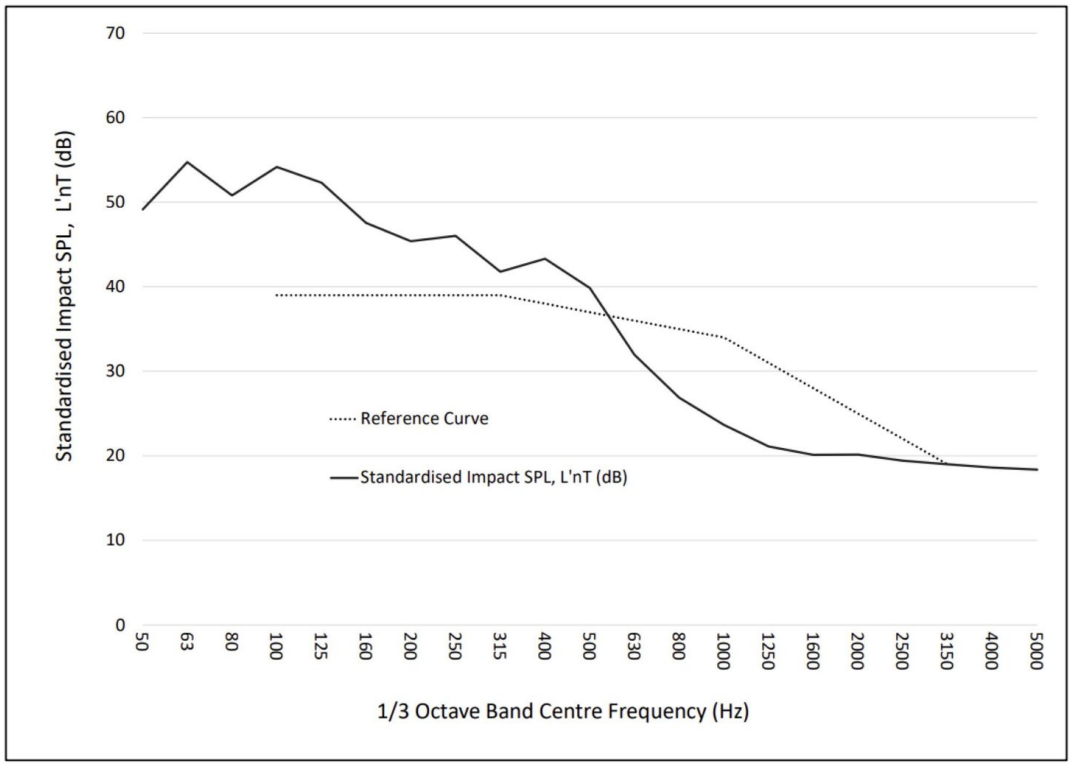
Acoustic test results provided are only indicative of acoustic performance and are site specific, so outcomes may vary from building to building. Royal Floors provides this information for guidance and indicative purposes only and does not guarantee any specific acoustic outcome. Indicative testing has been completed by acoustic engineers according to AS/NZS ISO 140.7:2006 and the rating has been determined as per AS ISO 717.2-2004.

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# Part 7 : Acoustic Test (Royal 10mm Extreme Hybrid Flooring + EVERQUIET EQ312)

## Technical Data Sheet - Standardised Impact Sound Pressure Level
## Impact Sound Insulation Testing of Floorboards

**Floor Finish:** 10mm Hybrid Flooring
**Acoustic Underlay:** 3mm Rubber EQ312
**Sub-base & ceiling below:** Reinforced concrete slab
Suspended ceiling cavity with 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:** 60.28




| 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] | 49.1 | 54.7 | 50.8 | 54.2 | 52.3 | 47.5 | 45.4 | 46.0 | 41.8 | 43.3 | 39.8 | 32.0 | 26.9 | 23.7 | 21.1 | 20.1 | 20.2 | 19.4 | 19.0 | 18.6 | 18.4 |

| Acoustical Rating | | Reference/Guildine |
|---|---|---|
| Measured Weighted Standardised Sound Level Difference, **L'nTw** | 41 | AS ISO 717.2 - 2004 |
| Field Impact Isolation Class, **FIIC** | 62 | ASTME1007-14 |
| AAAC **Star Rating** | 5 | AAAC Guideline |

**Testing Date :** Friday, 7 February 2025
**Reference No.:** 3874
**Testing Organisation:** Contrix Pty Ltd
**Tested By:** Michael Fan Chiang
BE(Mech)., MAAS

**Contrix Pty Ltd**
ABN: 95 632 593 625
E-mail: info@contrix.com.au
Tel: +61 425 240 555
www.contrix.com.au/acoustics

**Disclaimers:**
1. The information provided in this report relates to sound insulation of floor coverings & underlays only.
2. Contrix Pty Ltd does not provide products or installation services of hard floor coverings/underlay, therefore, not responsible or liable for any product defects.
3. This testing report is site-specific and only applies to the subject premise for the tested product as specified in this document.
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 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. 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 rating points has been recorded.
7. 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.
8. 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.

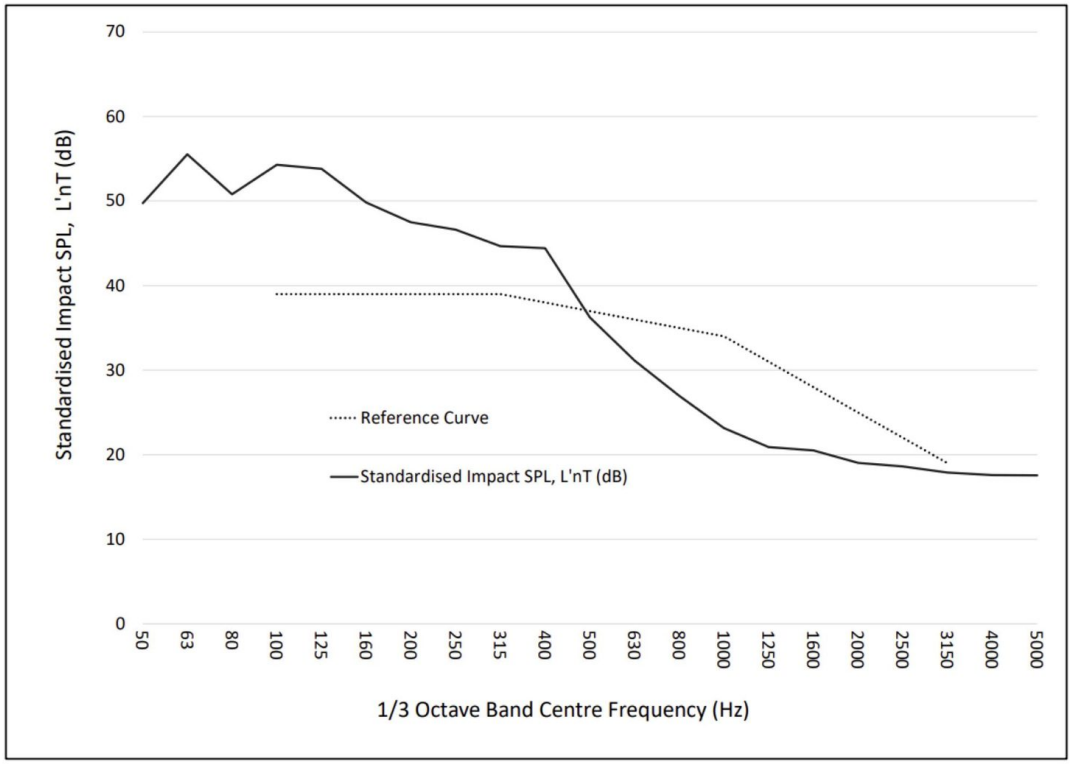
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# Part 7 : Acoustic Test (Royal 10mm Extreme Hybrid Flooring + EVERQUIET EQ512)

## Technical Data Sheet - Standardised Impact Sound Pressure Level
## Impact Sound Insulation Testing of Floorboards

**Floor Finish:** 10mm Hybrid Flooring
**Acoustic Underlay:** 5mm Rubber EQ512
**Sub-base & ceiling below:** Reinforced concrete slab
Suspended ceiling cavity with 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:** 60.28




| 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] | 49.7 | 55.5 | 50.8 | 54.3 | 53.8 | 49.8 | 47.5 | 46.6 | 44.7 | 44.4 | 36.2 | 31.2 | 27.0 | 23.2 | 20.9 | 20.5 | 19.0 | 18.6 | 17.9 | 17.6 | 17.6 |

| Acoustical Rating | | Reference/Guildine |
|---|---|---|
| Measured Weighted Standardised Sound Level Difference, **L'nTw** | **43** | AS ISO 717.2 - 2004 |
| Field Impact Isolation Class, **FIIC** | **62** | ASTME1007-14 |
| AAAC **Star Rating** | **5** | AAAC Guideline |

**Testing Date :** Friday, 7 February 2025
**Reference No.:** 3874
**Testing Organisation:** Contrix Pty Ltd
**Tested By:** Michael Fan Chiang
BE(Mech)., MAAS

**Contrix Pty Ltd**
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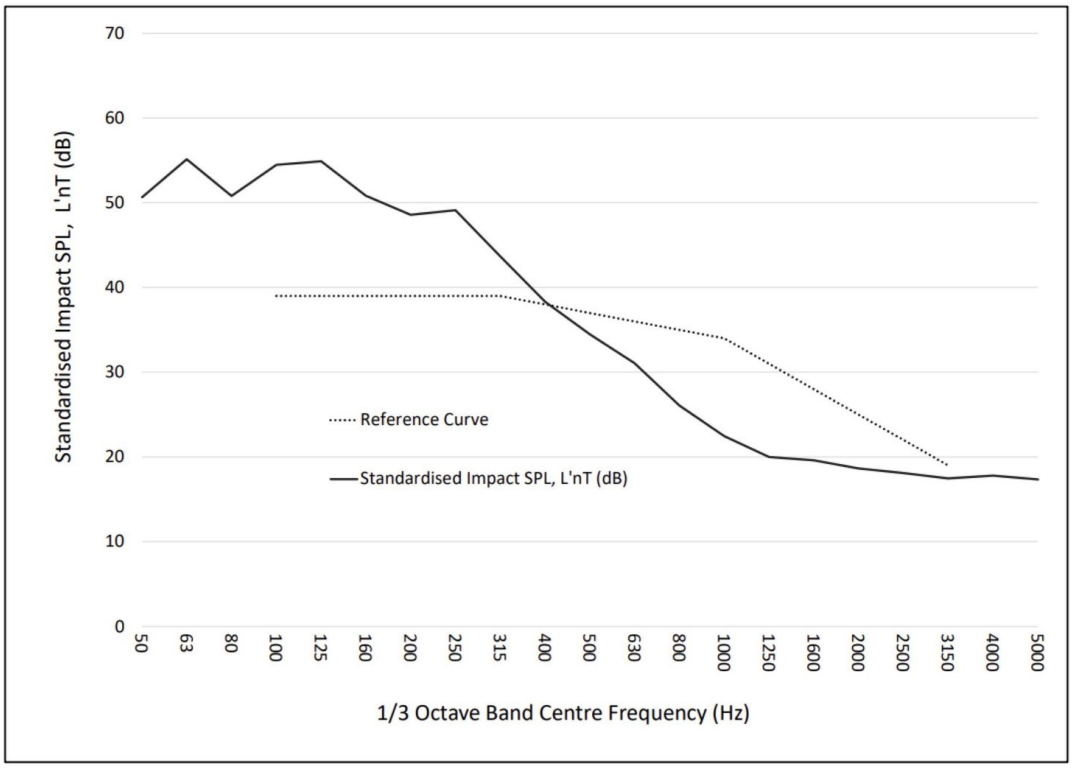
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# Part 7 : Acoustic Test (Royal 10mm Extreme Hybrid Flooring + EVERQUIET EQ1012)

## Technical Data Sheet - Standardised Impact Sound Pressure Level
## Impact Sound Insulation Testing of Floorboards

**Floor Finish:** 10mm Hybrid Flooring
**Acoustic Underlay:** 10mm Rubber EQ1012
**Sub-base & ceiling below:** Reinforced concrete slab
Suspended ceiling cavity with 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:** 60.28




| 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] | 50.6 | 55.1 | 50.8 | 54.5 | 54.9 | 50.8 | 48.6 | 49.1 | 43.7 | 38.3 | 34.4 | 31.1 | 26.1 | 22.5 | 20.0 | 19.6 | 18.6 | 18.1 | 17.5 | 17.8 | 17.4 |

| Acoustical Rating | | Reference/Guildine |
|---|---|---|
| Measured Weighted Standardised Sound Level Difference, **L'nTw** | **44** | AS ISO 717.2 - 2004 |
| Field Impact Isolation Class, **FIIC** | **62** | ASTME1007-14 |
| AAAC **Star Rating** | **5** | AAAC Guideline |

| | | |
|---|---|---|
| **Testing Date :** | Friday, 7 February 2025 | **Contrix Pty Ltd** |
| **Reference No.:** | 3874 | 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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