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Add: 2/4 Grey Street, Carlton NSW 2218

IMPACT NOISE TESTING OF HARD FLOOR COVERING

9.5 mm Duro SPC Flooring HTT FLOORING PTY LTD

Contrix Pty Ltd was requested to conduct an impact noise test of the 9.5 mm Duro SPC Flooring within the residential apartment in Merrylands NSW.

The aim of undertaking the impact noise test was to quantify the acoustic performance of the 9.5 mm Duro SPC flooring and results are to be used for design purpose only.

All measurements and assessment procedures were carried out in accordance with AS/NZS ISO 140.7:2006 "Field measurements of impact sound insulation of floors" and AS ISO 717.2-2004 "Rating of sound insulation in buildings and of building elements". A report summary and detailed technical data sheets are also provided in this report.

Based on our test results and calculations, the 9.5 mm Duro SPC Flooring tested within the residential apartment in Merrylands achieves the acoustical rating of:

Measured Weighted Standardised Sound Level Different, L'nTw
 Field Impact Insulation Class, FIIC
 AAAC Star Rating
 5

A report summary and detailed technical data sheet are provided on page 2 and 3 of this report respectively.

Disclaimers:

- 1. The information provided in this report relates to sound insulation of floor covering only.
- 2. Contrix Pty Ltd does not provide product or installation services of hard floor covering, therefore, not responsible or liable for supply and installation of any products.
- 3. The acoustic ratings included in this report are indicative. The test results can vary significantly from building to building, therefore, this document is not an acoustical certification of the tested product, however, provides a guidance for design purpose.



IMPACT NOISE INSULATION FIELD TEST REPORT SUMMARY



E-mail:info@contrix.com.au

Tel:+61 425 240 555

Add: 2/4 Grey Street, Carlton NSW 2218

Date of Test:	Saturday, 29 th January 2022	
Testing Location:	Residential apartment in Merrylands NSW	
Flooring System	9.5 mm Duro PC	
Tested:		
Existing Sub-base &	Reinforced concrete slab of 200 ~220 mm	
Ceiling below:	Suspended plasterboard ceiling with 100 mm to 150 mm ceiling cavity	
Source Room:	Living/dining area on level 2	
Receiver Room:	Living/dining area on level 1	

Measured/Calculated Acoustic Performance				
Measured Weighted Standardised Sound Level Difference, L'nTw		43		
Field Impact Insulation Class, FIIC		60		
AAAC Star Rating		5		
Sound Source:	Tapping Machine TM004 S/N 59005			
Measuring Device:	NTi-XL2 spectrum analyser S/N A2A-11580-E0			

Measurements 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".

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Prepared By:		Report	31 st January 2022
	I wed	Date:	
	Michael Fan Chiang		
	BE (Mech)., MAAS		
	Consultant		



Date: 31st January 2022 Reference: 3617IP0006 Client: HTT Flooring Pty Ltd



Standardised impact sound pressure level according to ISO 140-7 Field measurements of impact sound insulation of floors

RE: 9.5 mm Duro SPC



E-mail:info@contrix.com.au

Tel:+61 425 240 555 Add: 2/4 Grey Street, Carlton NSW

Testing Date: Saturday, 29 January 2022

Test No.: N/A

Owner/Pccupier Name: HTT Flooring Pty Ltd

Testing Location: Residential apartment in Merrylands NSW

Floor Finish: 9.5 mm Duro SPC

Acoustic Underlay: --

Sub-base & ceiling below: 200~220 reinforced concrete slab (estimated)

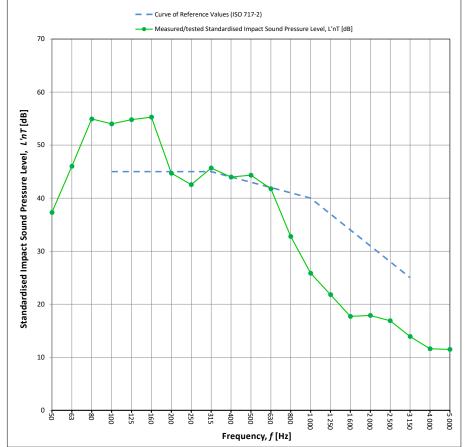
100~150 mm suspended ceiling cavity + 13 mm plasterboard (estimated)

Source Room: Living/dining area on Level 2 Receiver Room: Living/dining area on Level 1

Receiving room vol: 82 **Receiver Room Surfaces:**

> Wall - Plasterboard Floor Finish - Concrete Ceiling - Plasterboard

	L'nT		
Frequency, f [Hz]	(one-third		
	octave)		
Hz	dB		
50	37.3		
63	46.0		
80	54.9		
100	54.0		
125	54.8		
160	55.3		
200	44.7		
250	42.6		
315	45.7		
400	44.0		
500	44.3		
630	41.8		
800	32.8		
1 000	25.8		
1 250	21.8		
1 600	17.7		
2 000	17.9		
2 500	16.9		
3 150	13.9		
4 000	11.6		
5 000	11.5		



Acoustical Rating

Measured Weighted Standardised Sound Level Difference, L'nTw 43 AS ISO 717.2 - 2004 Field Impact Insulation Class, FIIC **60** ASTME1007-14 5 Star AAAC Guideline AAAC Star Rating

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Evaluation based on field measurement results obtained by an engineering method

Saturday, 29 January 2022 Report Date :

Ref No.: Contrix Pty Ltd Testing Organisation: Michael Fan Chiang Tested By:

BE(Mech)., MAAS

Contrix Pty Ltd

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