

Standardised impact sound pressure level according to ISO 140-7

Field measurements of impact sound insulation of floors



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Testing Date: Friday, 25 November 2022

Test No.: 02

Testing Location: Residential apartment in Wolli Creek

Floor Finish: 9 mm thickness SPC Hybrid Flooring

Acoustic Underlay: --

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

100~120 mm suspended ceiling cavity + 10 or 13 mm plasterboard (estimated)

Source Room: Living area on level 17

Receiver Room: Living area on level 16

Receiving room vol: 55.41

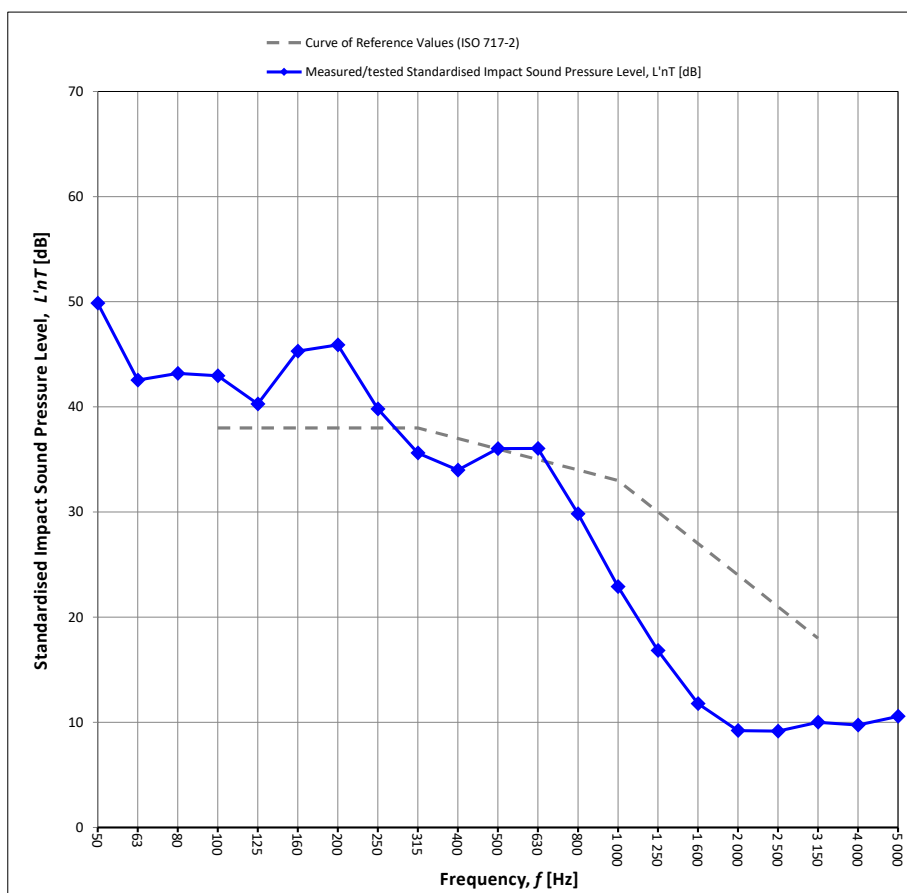
Receiver Room Surfaces:

Wall - Plasterboard

Floor Finish - Tiles/Rug

Ceiling - Plasterboard

Frequency, f [Hz]	L'nT (one-third octave)
Hz	dB
50	49.9
63	42.5
80	43.2
100	43.0
125	40.3
160	45.3
200	45.9
250	39.8
315	35.6
400	34.0
500	36.0
630	36.0
800	29.8
1 000	22.9
1 250	16.8
1 600	11.8
2 000	9.2
2 500	9.2
3 150	10.0
4 000	9.7
5 000	10.6



Acoustical Rating

Measured Weighted Standardised Sound Level Difference, L'nTw **36** AS ISO 717.2 - 2004

Field Impact Isolation Class, FIIC **71** ASTM E1007-14

AAAC Star Rating **6 Star** AAAC Guideline

Evaluation based on field measurement results obtained by an engineering method

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Ref No. : 2001

Testing Organisation: Contrix Pty Ltd

Tested By: Michael Fan Chiang

BE(Mech.), MAAS

CONTRIX
NOISE IMPACT ASSESSMENT
TESTING & CERTIFICATION

Disclaimers:

- The information provided in this report relates to sound insulation of floor coverings & underlays only.
- Contrix Pty Ltd does not provide products or installation services of hard floor coverings/underlay, therefore, not responsible or liable for any product defects.
- This testing report is site-specific and only applies to the subject premise for the tested product as specified in this document.
- The test results can vary from building to building, therefore, this document is not an acoustical certification of the tested products, however, provides information for the design guide only.
- It is highly recommended to engage a qualified acoustic consultant to conduct in-situ testing (field testing) prior to flooring installation. Contact Contrix Pty Ltd on +61 425 240 555 to arrange for field testing.