

INFORMATION DATA SHEET: ENG.OAK ON 2mm ULTRA GREEN FOAM U'LAY ACOUSTIC TESTS Date: February 2018

COMPLIANCE TESTING

All measurements were carried out in accordance with the guidelines and procedures outlined in AS/NZS ISO 140.7:2006. "Field measurements of impact sound insulation of floors" with the rating determined in accordance with AS ISO 717.2-2004. "Rating of sound insulation in buildings and of building elements".

MEASURED RESULTS AND CONCLUSIONS

The results of the impact noise tests are summarized in the table below:

The standard product was installed on a 200 mm concrete slab, approximately 80–120 mm deep suspended ceiling cavity and 13 mm plasterboard ceiling. All the ceiling/floor tested have met both the BCA 2016 criterion (L'nTw≤ 62) and City of Sydney DCP 2012 requirement (L'nTw≤ 55) for impact noise insulation. The lower the rating number the better for acoustic performance for L'nTw ratings.

The result confirms compliance NCC/BCA use Multi-residential requirements.

Product Sample	BCA Criterion	Test Result L'nT,w³	AAAC⁵ Star Rating	FIIC ⁴¹⁵	Compliance with NCC/BCA
2mm Ultra Green U'lay & 12mm Eng. Oak	L'nTw≤ 62	44 🗸	5	67	Yes✓
2mm Ultra Green U'lay & 15mm Eng. Oak	L'nTw≤ 62	44 🗸	5	67	Yes √
2mm Ultra Green U'lay & 21mm Eng. Oak	L'nTw≤ 62	45 ✓	5	66	Yes✓

Note; National Construction Code / Building Code of Australia (NCC/BCA).

Field Impact Insulation Class (FICC), higher the number the better its impact insulation performance. Minimum rate is 50.

Koikas Acosutics Pty Ltd has undertaken noise impact tests on 9 February 2018 at multi-residential units located at Little Bay Sydney. The results reveal that all the testing samples are compliant with the updated NCC/BCA 2016 impact noise insulation criterion with ceiling / floor systems.

A detailed test report is available on request.

The field test acoustic ratings provided in this report are indicative and for comparative purposes only. Acoustic ratings will vary depending on testing environment/conditions including, materials/structures of existing ceiling/floor system, room volume, internal layout and workmanship. Acoustic ratings can and will vary from building to building and room to room. Please consult with an appropriate building professional or acoustic engineer to confirm if the product selected meets the building and or body corporate acoustic impact sound isolation guidelines.

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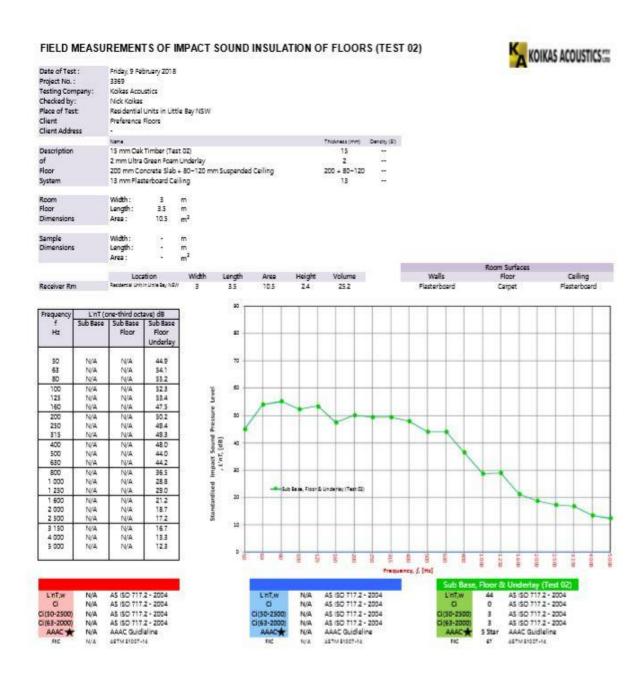
2mm Ultra Green Foam Underlay installed with 12mm Engineered Oak

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS (TEST 01) KOIKAS ACOUSTICS Date of Test : Priday, 9 February 2018 Project No.: 3369 Testing Company: Koikas Acoustics Checked by: Nick Koikas Place of Test Residential Units in Little Bay NSW Client Preference Floors Thickness (mm) Density (\$1) Description 12 mm Oak Timber (Test 01) 12 2 mm Ultra Green Foam Underlay Floor 200 mm Concrete Slab + 80-120 mm Suspended Ceiling 200 + 80-120 System 13 mm Plasterboard Ceiling Width Length: Area: 10.5 m² Sample Width Dimensions Length: Area: Room Surfaces Walls Ceiling Location Length Receiver Rm Residential Unit in Little Say NEW 10.5 25.2 Freque L'nT (one-third octave) dB Sub Base | Sub Base | Sub Base Hz Floor Floor Underlay 63 N/A N/A 55.4 100 N/A N/A 52.7 123 N/A 53.5 160 NVA N/A 46.9 30 230 N/A N/A 49.Z 48 pact Sound , L'nT, [dB] 400 N/A 47.2 500 N/A 41.9 Impact 630 N/A N/A 40.6 N/A 1 000 N/A 24.4 N/A 26.3 1 600 N/A N/A 2 000 17.0 2 500 N/A N/A 15.3 N/A 4 000 N/A N/A 133 5 000 123 AS ISO 717.2 - 2004 L'nT,w L'nT,N 44 0 C N/A N/A CI(50-2500) N/A AS ISO 717.2 - 2004 AS ISO 717.2 - 2004 N/A AS ISO 717.2 - 2004 AS ISO 717.2 - 2004 Cit63-2000 N/A N/A AS ISO 717.2 - 2004 AAAC Guidleline AAAC Guidleline AAAC Guidleline 45TM \$1007-14 ASTM \$1007-16 ASTM \$1007-14

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2mm Ultra Green Foam Underlay installed with 15mm Engineered Oak



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4 000

CI(50-2500) CI(63-2000)

N/A N/A

N/A N/A

N/A N/A

N/A

14.8

AS ISO 717.2 - 2004 AS ISO 717.2 - 2004

AS ISO 717.2 - 2004 AS ISO 717.2 - 2004

AAAC Guidleline

45TM \$1007-14

2mm Ultra Green Foam Underlay installed with 21mm Engineered Oak

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS (TEST 03)

KOIKAS ACOUSTICS: Date of Test : Priday, 9 February 2018 Project No. : 3369 Testing Company: Kolkas Acoustics Checked by Nick Koikas Place of Test Residential Units in Little Bay NSW Client Preference Floors Client Address m) Density (SI) Description 21 mm Oak Timber (Test 03) 2 mm Ultra Green Foam Underlay Floor 200 mm Concrete Slab + 80-120 mm Suspended Ceiling 200 + 80-120 System 13 mm Plasterboard Ceiling Room Width: m m² Length: 3.5 10.5 Dimensions Area: m m Width: Length: Area: Room Surfaces Location Volume Walls Floor Ceiling L'nT (one-third octave) dB Sub Base | Sub Base | Sub Base Hz Floor Underlay 43.4 70 N/A NVA 543 100 53.6 50.9 N/A N/A N/A N/A 80 Level N/A N/A 47. 50 48.7 50.2 N/A 230 N/A [49] 400 N/A N/A 50.4 500 N/A N/A 47.9 45.6 Impact N/A N/A 630 N/A N/A 39.1 30.6 N/A N/A 1 000 1 250 N/A NA 20.2 2 000 N/A N/A 10 3 150 N/A N/A

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N/A N/A

N/A N/A

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AS ISO 717.2 - 2004 AS ISO 717.2 - 2004

AS ISO 717.2 - 2004 AS ISO 717.2 - 2004

AAAC Guidleline

ASTM \$1007-10

AS ISO 717.2 - 2004 AS ISO 717.2 - 2004

AS ISO 717.2 - 2004 AS ISO 717.2 - 2004 AAAC Guidleline

ASTM \$1007-14

45

5 Star