

INFORMATION DATA SHEET: 2mm Ultra Green Foam U'Lay with 8, 12 & 14mm Laminate Acoustic Test 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. The results reveal that the ceiling/floor tested have met both the BCA 2016 criterion ($L'nT,w \le 62$) and City of Sydney DCP 2012 requirement ($L'nT,w \le 55$) for impact noise insulation. The lower the rating number the better for acoustic performance L'nT,w ratings.

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

Product Sample	BCA Criterion	Test Result L'nT,w	AAAC⁵ Star Rating	FIIC ⁴¹⁵	Compliance with NCC/BCA
2mm Ultra Green U'Lay & 8mm Laminate	L'nT,w ≤ 62	44 🗸	5	66	Yes✓
2mm Ultra Green U'Lay & 12mm Laminate	L'nT,w ≤ 62	45 🗸	5	66	Yes √
2mm Ultra Green U'Lay & 14mm Laminate	L'nT,w ≤ 62	46 🗸	4	64	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. The 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, have 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 U'Lay installed with 8mm Laminate

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS (TEST 01) KOIKAS ACOUSTICS Date of Test : Friday, 9 February 2018 Project No.: Testing Company: Koikas Acoustics Checked by: Nick Koikas Place of Test Residential Units in Little Bay NSW Client Preference Floors Client Address Name B mm Laminated Timber (Test 01) Thickness (mm) Density (\$1) 2 mm Ultra Green Foam Underlag 200 mm Concrete Slab + 80-120 mm Suspended Ceiling 200 + 80-120 System 13 mm Plasterboard Ceiling Length: 3.5 Dimensions 10.5 m² Sample Dimensions Width: Length: Room Surfaces Location Walls Ceiling rie Sey NOV 3.5 Frequen L'nT (one-third octave) dB Sub Base | Sub Base | Sub Base Hz Underlay 50 N/A N/A 45.1 70 N/A N/A N/A N/A 57.1 59.6 63 80 60 100 N/A N/A N/A N/A 125 53.2 160 N/A N/A 49.3 200 250 49.3 49.7 N/A N/A N/A N/A 50 N/A N/A 313 400 500 20 45.9 40.9 N/A Impact So 20 800 N/A NVA 29.4 1 000 N/A N/A N/A N/A 24.7 20 N/A N/A 1 600 2 000 18.7 2 500 N/A NVA 10 3 150 4 000 N/A N/A N/A N/A 13.5 \$ 000 N/A N/A 125 AS ISO 717.2 - 2004 L'nT,w L'nT,w L'HT,W AS ISO 717.2 - 2004 AS ISO 717.2 - 2004 44 N/A N/A CI(50-2500) AS ISO 717.2 - 2004 AS ISO 717.2 - 2004 N/A AS ISO 717.2 - 2004 N/A Cir63-2000) N/A N/A AAAC Guidleline N/A AAAC Guidleline 3 Star AAAC Guidleline

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2mm Ultra Green Foam U'Lay installed with 12mm Laminate

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS (TEST 02)



Room Surfaces

A\$71/ \$1007-14

Date of Test : Project No. :	Friday, 9 Feb 3369	oruary 201	8										
Testing Company:	Kolkas Acou	istics											
Checked by:	Nick Koikas												
Place of Test:	Residential	Units in Lit	ttle Bay NSW										
Client	Preference	Floors	189										
Client Address	20000000												
	Name	Name											
Description	12 mm Lam	inated Tim		12	-								
of	2 mm Ultra		2	**									
Floor	200 mm Co	ncrete Sial		200 + 80-120	2								
System	13 mm Plas	terboard C	eiling				13						
Room	Width:	3	m										
Floor	Length:	3.5	m										
Dimensions	Area:	10.5	m ²										
Sample	Width:	\$5	m										
Dimensions	Length:		m										
	Area:	16	m²										
	Loca	rtion	Width	Length	Area	Height	Volume						
						100000000000000000000000000000000000000							

ASTM \$1007-14

Receiver Rm		Location Recidencial Unit in Unite Say NSW		Width	Length	Ares		Height	Volum					alls			Flo	loor			Ceiling			
				3	3.5	10.5	Ď.	2.4	25.2				3	Plaste	erboard (Car	Carpet			Plasterboard			
					90 -									_										_
Frequency	L'inT (c	one-third oct	tave) dB		61520	8-1												1						=7
f Hz	Sub Base	Sub Base Floor	Sub Base Floor Underlay		80		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
50 63 80	N/A N/A N/A	N/A N/A N/A	49.6 56.2 58.2		70 -		t					t	H	t		+	t	+	+	+	+	+	+	
100 125 160	N/A N/A N/A	N/A N/A N/A	54.2 53.7 49.3			1	1			1		t	+	+				t		1	+	1	1	
200 250 315	N/A N/A N/A	N/A N/A N/A	48.1 90.2 48.4		50	+			1	-	+	+	1	+	1		Ť	t	Ť	Ť	+	Ť	1	
400 500	N/A N/A	N/A N/A	49.5 46.0				t		+	t	t	t	t	Ť		1		İ		Ť	+	+	\forall	-
800 1 000	N/A N/A N/A	N/A N/A N/A	43.8 37.8 31.1				+		+	t	+	t	+	t	+			1	1		+	+	+	-
1 250 1 900 2 000	N/A N/A N/A	N/A N/A N/A	32.5 24.5 19.0		20		9.0	lam, Floor I	L Underlay (7	est (32)		t	t	t	1	t	t	t	1	1	+	-	+	1
2 500 3 150 4 000 5 000	N/A N/A N/A	N/A N/A N/A	17.7 18.8 18.4 16.2		10		t			t		t	t	t		t	t	t	+	+		1	1	
2 000	OS M.	IN/A	10.4		0 6	Ð	8	8 5	180	20	10	8E5	dist	¥.	8	900	1000	0.230	6	2000	2500	911	4000	
												Frequ	ency, f.	[Ha]	_									
Links	11/4	AS 150 717	2 2004		LINT,W N/A AS ISO 717.2 - 2004										Sul				Unde AS (S)				,	
L'nT,w	N/A N/A	AS ISO 717				L mi,	w	N/A	AS 150 7						Ln		43		AS (SI					
(50-2500) (63-2000) AAAC ★	N/A N/A	AS ISO 717 AS ISO 717 AAAC Guid	.2 - 2004 .2 - 2004			C)(50-2 C)(63-2 AAA	000)	N/A N/A N/A	AS ISO 7 AS ISO 7 AAAC G	17.2	2004				Ci(50- Ci(63-	2500)	3 3 55		AS ISC AS ISC AAAC	717.	2 - 200 2 - 200	14		

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AGTM \$1007-14



AAAC *

N/A

AAAC Guidleline

49TM \$1007-14

2mm Ultra Green Foam U'Lay installed with 14mm Laminate

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS (TEST 03) KOIKAS ACOUSTICS Date of Test : Friday, 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 Client Address Thickness (mm) Density (\$1) Description 14 mm Laminated 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 13 Width: Length: Room 3.5 Floor 10.5 m² Sample Width: Length: Area: Room Surfaces Walls Ceiling Height Receiver Rm 3 3.5 10.5 24 25.2 Carpet Frequenc L'nT (one-third octave) dB Sub Rac Sub Base Sub Base Hz Floor Floor Underlay 70 50 N/A NVA 45.2 63 N/A N/A 55.2 80 N/A NVA 60 N/A N/A 123 N/A N/A 54.5 49.5 N/A N/A 160 Pressure 200 250 N/A N/A N/A 90.2 315 N/A 49 1 Sound [BD] 400 N/A 50.2 500 N/A 45.5 630 N/A N/A 45 800 N/A N/A 41.9 1 000 N/A N/A 38.4 N/A N/A 31.3 1 900 25.3 N/A N/A 2 000 N/A 19.3 10 N/A N/A N/A N/A 3 150 17.5 4 000 15.0 5 000 N/A N/A 13.5 25 ney, f. [He] AS ISO 717.2 - 2004 AS ISO 717.2 - 2004 N/A O 45 ISD 717 2 - 2004 C N/A AS ISO 717.2 - 2004 C N/A AS 150 717.2 - 2004 0 AS ISO 717.2 - 2004 AS 150 717.2 - 2004 Ci (50-2500 AS ISO 717.2 - 2004 Ci(30-2300) N/A N/A 3 CI(63-2000) N/A AS ISO 717.2 - 2004 N/A AS (50 717.2 - 2004 AS ISO 717.2 - 2004

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AAAC Guidleline

ASTM \$1007-14

N/A

4 Star

AAAC Guidleline

ASTM \$1007-16