

INFORMATION DATA SHEET: ASPIRE RCB 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 calculated acoustic rating of L'nT,w for the sample has been referenced to the acoustic criterion of NCC / BCA and AAAC⁵ star rating. 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 result 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
ASPIRE RCB Inc. U'lay	L'nT,w ≤ 62	43 ✓	5	68	Yes✓
ASPIRE RCB Inc. U'lay + 3 mm Regupol 4515s	L'nT,w ≤ 62	43 🗸	5	68	Yes √

Note: Regupol in 2021 now known as Sonus-Mutli. Same product just changed their branding description.

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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FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS (TEST 01)



Date of Test : Friday, 9 February 2018 Project No.: Testing Company: Checked by: 3369 Koikas Acoustics Nick Koikas Place of Test Residential Units in Little Bay NSW Client Preference Floors Client Address Thickness (mm) Density (\$1) Description 6.5 mm Aspire Hybrid (Test 01) 6.5 of Floor 200 mm Concrete Slab + 80-120 mm Suspended Ceiling 200 + 80-120 13 mm Plasterboard Ceiling 13 System Floor Length: 3.5 10.5 m² Sample Dimensions . Length:

								Room Surfaces	
	Location	Width	Length	Area	Height	Volume	Walls	Floor	Ceiling
Receiver Rm	Recidential Unit in Uttle Say NSW	3	3.5	10.5	24	25.2	Plasterboard	Carpet	Plasterboa
			90 -						

Frequency		L'nT (one-third octave) d8				
Hz	Sub Base	Sub Base Floor	Sub Base Floor Underlay			
50	N/A	N/A	45.1			
63	N/A	N/A	53.5			
80	N/A	N/A	54.4			
100	N/A	N/A	51.4			
125	N/A	N/A	51.7			
160	N/A	N/A	48.7			
200	N/A	N/A	48.2			
250	N/A	N/A	49.3			
315	N/A	N/A	45.4			
400	N/A	N/A	44.5			
500	N/A	N/A	38.4			
630	N/A	N/A	32.4			
800	N/A	N/A	28.9			
1 000	N/A	N/A	24.5			
1 250	N/A	N/A	22.1			
1 600	N/A	:N/A	16.7			
2 000	N/A	N/A	16.1			
2 500	N/A	N/A	14.1			
3 150	N/A	N/A	14.6			
4 000	N/A	N/A	12.6			
5 000	N/A	N/A	120			





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FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS (TEST 09 & TEST 10)



Date of Test : Friday, 9 February 2018 Project No. : Testing Company: Checked by: 3369 Kolkas Acoustics

Nick Kaikas

Place of Test Residential Units in Little Bay NSW

Client Preference Floors

Client Address

Description 6.5 mm Aspire Hybrid Vinyl (included for Test 09 & 10) 3 mm Regupal 4515s Underlay (included for Test 10 only) 6.5 3 200 mm Concrete Slab + 80-120 mm Suspended Ceiling System 13 mm Plasterboard Ceiling 13

Width:

Room Floor 3.5 Length: m² 10.5 Sample Dimensions m m² Length: Area:

	Location	Width	Length	Area	Height	Volume	Walls	Floor	Celling
Receiver Rm	Residential Unit in Little Say NSW	3	3.5	10.5	2.4	25.2	Plasterboard	Carnet	Plasterboard

Frequency	L'nT (one-third octave) dB						
f Hz	Sub Base	Sub Base Floor	Sub Base Floor Underlay				
50	42.8	46.1	46.4				
63	52.6	53.5	54.9				
80	\$4.6	54.4	55.2				
100	52.6	51.4	51.2				
125	55.3	51.7	52.5				
160	52.1	48.7	48.7				
200	49.3	48.2	47.7				
250	\$1.5	49.3	49.7				
315	48.4	46,4	46.6				
400	49.5	44.5	45.6				
500	47.0	38.4	38.2				
630	47.1	32.4	35.3				
800	42.7	28.9	34.1				
1 000	41.2	24.5	25.6				
1 250	45.7	22.1	20.7				
1 500	41.8	16.7	13.6				
2 000	46.2	16.1	13.6				
2 900	50.1	14.1	13.1				
3 150	53.9	14.6	15.0				
4 000	49.3	12.6	13.7				
5 000	44.7	12.0	128				



	iub Bas	e (Test 00)
L'nT,w	55	AS ISO 717.2 - 2004
Ci Ci	-9	AS ISO 717.2 - 2004
Ci(50-2500)	-7	AS ISO 717.2 - 2004
CI(63-2000)	-8	AS ISO 717.2 - 2004
AAAC *	3 Star	AAAC Guidleline
FIE	47	ASTM \$1007-14
Ci Ci(30-2500) Ci(63-2000)	-9 -7 -8	AS ISO 717.2 - 2004 AS ISO 717.2 - 2004 AS ISO 717.2 - 2004 AAAC Guidleline

Sub	Base &	Floor (Test 09)
L'mT,w	43	AS ISO 717.2 - 2004
Ci	0	AS ISO 717.2 - 2004
Ci(50-2500)	3	AS ISO 717.2 - 2004
Ci(63-2000)	2	AS ISO 717.2 - 2004
AAAC	5 Star	AAAC Guidleline
FIC	60	ASTM \$1007-14

Sub Base	Floor &	Underlay (Test 10)
L'MT,W	43	AS ISO 717.2 - 2004
C	0	AS ISO 717.2 - 2004
Ci(50-2500)	3	AS ISO 717.2 - 2004
CI(63-2000)	3	AS (SO 717.2 - 2004)
AAAC	S Star	AAAC Guidleline
FRC	44	AETW \$1007-14

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