

### 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 building elements".

### MEASURED RESULTS AND CONCLUSIONS

The results of the impact noise tests are summarized in the table below. The calculated acoustic rating of LnT,w for the sample has been referenced to the acoustic criterion of NCC / BCA and AAAC<sup>5</sup> star rating. The product was installed on a 200 - 220 mm concrete slab, approximately 80–150 mm deep suspended ceiling cavity and 13 mm plasterboard ceiling. Hereafter referred to as the "existing ceiling/floor system" (ECFS).

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

Product Sample	BCA Criterion	Test Result L'nT,w	AAAC <sup>5</sup> Star Rating	FICC <sup>4,5</sup>	Compliance with NCC/BCA
BARE CONCRETE FLOOR (ECFS only)	L'nT,w ≤ 62	60		44	
ICONIC WPC Inc. U'lay	L'nT,w ≤ 62	39✓	6	71	Yes✓
ICONIC WPC Inc. U'lay + 3 mm Regupol 45I5S	L'nT,w ≤ 62	34✓	6	74	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 Acoustics Pty Ltd has undertaken noise impact test on 4 May 2021 at multi-residential apartments located at Liverpool Sydney. The acoustic performances of the various ceiling/floor configurations were calculated and compared against the acoustic requirements of the current BCA and AAAC Star Ratings that are commonly used in Australia.

A detailed full 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.

*Disclaimer: Homemirus Pty Ltd trading as Preference Floors has used its reasonable endeavours to ensure the accuracy and reliability of the information contained herein and, to the extent permitted by law, will not be liable for any inaccuracies, omissions, or errors in this information nor for any actions taken in reliance on this information. Products must be installed in accordance with relevant installation recommendations and industry best practices.*

**STANDARD 7.5MM ICONIC WPC HYBRID INCLUDING ATTACHED UNDERLAY.**

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

Date of Test: Tuesday, 4 May 2021  
 Project No.: 3369  
 Testing Company: Koikas Acoustics  
 Checked by: Nick Koikas  
 Place of Test: Residential apartment building in Liverpool NSW  
 Client: Preference Floors  
 Client Address: -

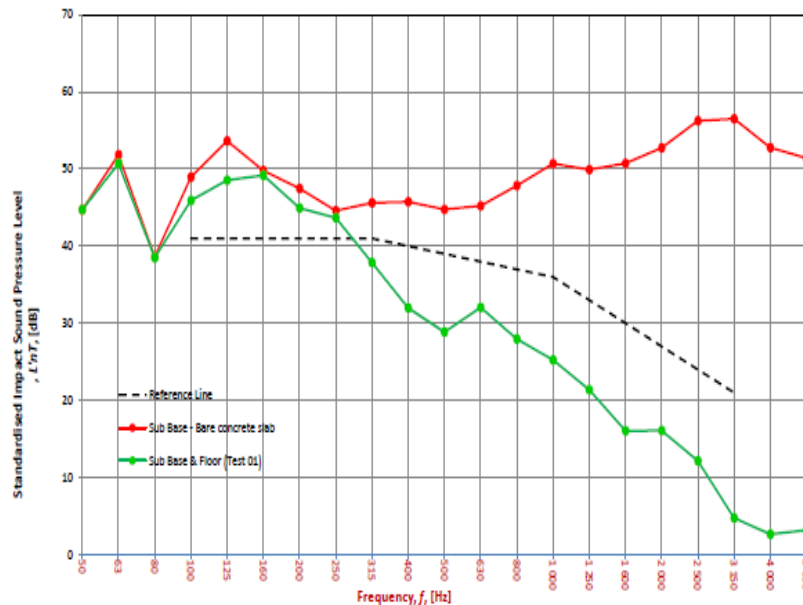
Description of	Name	Thickness (mm)	Density (S)
Floor System	Iconic WPC (1520 x 228 x 7.5 mm) - Oak color (Aussie Species)	7.5	--
	200-220 mm reinforced concrete slab	200-220	--
	80-150 mm suspended ceiling cavity + 13 mm plasterboard ceiling	80-150 + 13	--

Room Dimensions  
 Width: 3 m  
 Floor Length: 3.2 m  
 Area: 9.60 m<sup>2</sup>

Sample Dimensions  
 Width: 1 m  
 Length: 1 m  
 Area: 1 m<sup>2</sup>

Receiver Rm	Location	Width	Length	Area	Height	Volume	Room Surfaces		
							Walls	Floor	Ceiling
Bedroom on the lower floor level		3	3.2	10	3	24	Plasterboard	Concrete	Plasterboard

Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base		Sub Base Floor Underlay
50	44.7		44.7
63	51.8		50.7
80	38.6		38.5
100	49.0		45.9
125	53.6		48.6
160	49.8		49.2
200	47.5		44.9
250	44.6		43.7
315	45.6		37.9
400	45.7		32.0
500	44.8		28.8
630	45.2		32.0
800	47.8		27.9
1 000	50.7		25.2
1 250	49.9		21.4
1 600	50.7		16.0
2 000	52.7		16.1
2 500	56.2		12.2
3 150	56.5		4.7
4 000	52.8		2.6
5 000	51.4		3.2



Sub Base - Bare concrete slab		
L'nT,w	60	AS ISO 717.2 - 2004
CI	-13	AS ISO 717.2 - 2004
CI(50-2500)	-12	AS ISO 717.2 - 2004
CI(63-2000)	-14	AS ISO 717.2 - 2004
AAAC★	2 Star	AAAC Guideline
FIC	44	ASTM E1007-14

Sub Base & Floor (Test 01)		
L'nT,w	39	AS ISO 717.2 - 2004
CI	0	AS ISO 717.2 - 2004
CI(50-2500)	2	AS ISO 717.2 - 2004
CI(63-2000)	2	AS ISO 717.2 - 2004
AAAC★	6 Star	AAAC Guideline
FIC	71	ASTM E1007-14

Disclaimer: Homemirus Pty Ltd trading as Preference Floors has used its reasonable endeavours to ensure the accuracy and reliability of the information contained herein and, to the extent permitted by law, will not be liable for any inaccuracies, omissions, or errors in this information nor for any actions taken in reliance on this information. Products must be installed in accordance with relevant installation recommendations and industry best practices.

**STANDARD 7.5MM ICONIC WPC HYBRID INCLUDING ATTACHED UNDERLAY PLUS 3mm Regupol 4515S**

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

Date of Test :	Tuesday, 4 May 2021
Project No. :	3369
Testing Company :	Koikas Acoustics
Checked by :	Nick Koikas
Place of Test :	Residential apartment building in Liverpool NSW
Client :	Preference Floors
Client Address :	-

	Name	Thickness (mm)	Density (SI)
Description of Floor System	Iconic WPC (1520 x 228 x 7.5 mm) - Oak color (Aussie Species)	7.5	--
	Regupol 4515S	3	--
	200-220 mm reinforced concrete slab	200-220	--
	80-150 mm suspended ceiling cavity + 13 mm plasterboard ceiling	80-150 + 13	--

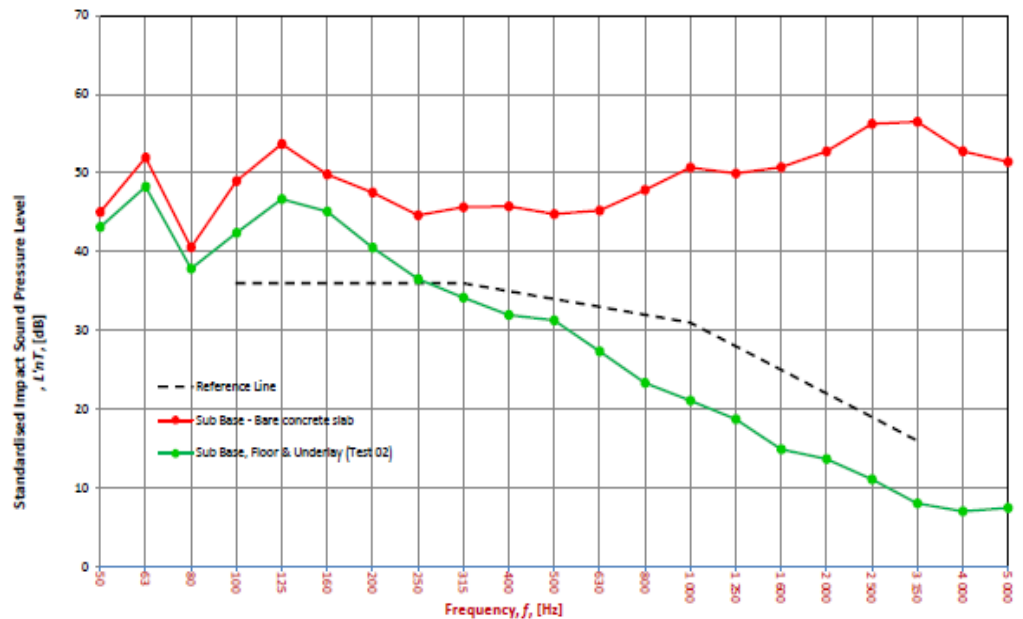
Room Dimensions	Width :	3	m
	Length :	3.2	m
	Area :	9.60	m <sup>2</sup>

Sample Dimensions	Width :	1	m
	Length :	1	m
	Area :	1	m <sup>2</sup>

Receiver Rm	Location	Width	Length	Area	Height	Volume
	Bedroom on the lower floor level	3	3.2	10	3	24

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Concrete	Plasterboard

Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base		Sub Base Floor Underlay
50	45.0		43.1
63	52.0		48.3
80	40.5		37.8
100	49.0		42.4
125	53.7		46.7
160	49.8		45.1
200	47.5		40.5
250	44.6		36.5
315	45.7		34.2
400	45.8		32.0
500	44.8		31.3
630	45.2		27.3
800	47.8		23.3
1 000	50.7		21.1
1 250	49.9		18.7
1 600	50.7		14.9
2 000	52.7		13.7
2 500	56.2		11.1
3 150	56.5		8.0
4 000	52.8		7.0
5 000	51.4		7.5



Sub Base - Bare concrete slab		
L'nT,w	60	AS ISO 717.2 - 2004
Ci	-13	AS ISO 717.2 - 2004
Ci(50-2500)	-12	AS ISO 717.2 - 2004
Ci(63-2000)	-14	AS ISO 717.2 - 2004
AAAC★	2 Star	AAAC Guideline
FIC	44	ASTM E1007-14

Sub Base, Floor & Underlay (Test 02)		
L'nT,w	34	AS ISO 717.2 - 2004
Ci	2	AS ISO 717.2 - 2004
Ci(50-2500)	4	AS ISO 717.2 - 2004
Ci(63-2000)	4	AS ISO 717.2 - 2004
AAAC★	6 Star	AAAC Guideline
FIC	74	ASTM E1007-14

*Disclaimer: Homemirus Pty Ltd trading as Preference Floors has used its reasonable endeavours to ensure the accuracy and reliability of the information contained herein and, to the extent permitted by law, will not be liable for any inaccuracies, omissions, or errors in this information nor for any actions taken in reliance on this information. Products must be installed in accordance with relevant installation recommendations and industry best practices.*