

INFORMATION DATA SHEET: EASI-PLANK SPC ACOUSTIC TESTS: DECEMBER 2019

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 for Easi-Plank SPC Hybrid flooring 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 AAAC⁵ star rating. The standard product was installed on a 200-220 mm concrete slab, approximately 100–120 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
Easi-Plank SPC Hybrid inc. U/Lay	L'nT,w≤ 62	40	6	64	Yes
Easi-Plank SPC Hybrid inc. U/Lay with 3mm Regupol 4515-S U/Lay	L'nT,w≤ 62	40	6	66	Yes

Note: Regupol in 2021 now known as Sonus-Multi. 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 tests on 18 December 2019 at multi-residential units located at Crows Nest 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.

Disclaimer: Homemirus Pty Ltd trading as Preference Floors has used its reasonable endeavors 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.

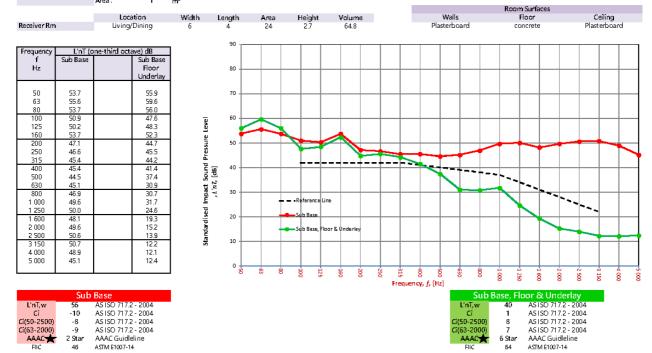
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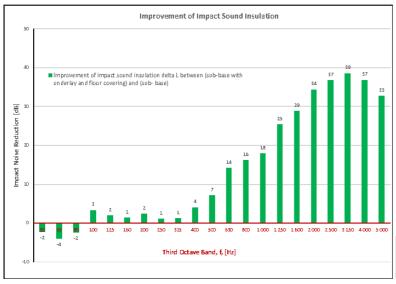


FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS (TEST 01)



Date of Test : Project No. : Testing Company : Checked by : Place of Test: Client Client Address	Wednesday, 3369 Koikas Acous Michael Fan Residential u Preference Fl -	tics Chiang nits in Cro	ber 2019 ws Nest NSW		
	Name			Thickness (mm)	Density (SI)
Description of Floor System	 200~220 mm	reinforce	id (1.5mm underlay included) d concrete slab vity + 13 mm plasterboard ceiling	6.5 200~220 100~120 +13	 2540
Room Floor Dimensions	Width : Length : Area :	6 4 24	m m m²		
Sample Dimensions	Width : Length : Area :	1 1 1	m m m²		





Definitions of Noise Metrics

Field impact insulation Class is a single-number rating of how well a floor system attenuates impact type sounds, such as footsteps. Calculated from third-octave band normalised impact sound pressure level data and referenced to 10m² as described in ASTM ES89. The higher the single-number

L'nT,w:

G:

FIIC:

The Weighted Standardised Impact Sound Pressure Level when measured in situ referenced to a reverberation time (RT60) of 0.5 seconds. Used by the AAAC to determine their respective Star Rating.

Spectrum adaption term is a low frequency correction factor. Typically for massive floors such as concrete, the values are about zero while for timber joist floors CI is positive because of the low resonant frequencies. Considers frequency range between 100 and 2500 Hz.

Gi(50-2500):

Same as above, but for the frequency range 50 -2500 Hz.

G(125-2000):

Same as above, but for the frequency range 125 -2000 Hz.

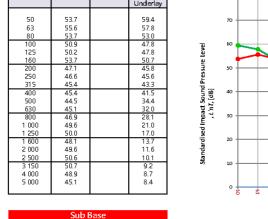
l	AAAC Star R.	2	з	4	5	6
l	L'nT,w	65	55	50	45	40
l	FIIC	46	55	60	65	70
	Comments	Below BCA 62	Clearly Audible	Audible	B arely Inaudible	Normally Inaudible



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



Date of Test : Project No. : Testing Compa Checked by : Place of Test: Client Client Address		3369 Koikas Acou Michael Far	n Chiang units in Crov	vs Nest NSW													
Cilera Address		- Na me						Thickness (mm) Density (17							
Description of Floor System		6.5 mm Easi Regupol® 4 200~220 m	4515-S m reinforce	d concrete sla	derlay include b plasterboard			6.5 3 200~220 100~120 +	 2540								
Room Floor Dimensions		Width : Length : Area :	6 4 24	m m m²													
Sample Dimensions		Width : Length : Area :	1 1 1	m m m²													
													n Surfa	aces			
Receiver Rm			ation /Dining	Width 6	Length 4	Anea 24	Height 2.7	Volume 64.8			Walls Plasterbo		Floor oncrete	2		ailing erboar	d
Frequency f Hz	L'nT (c Sub Base	one-third oct	Sub Base Floor		90 -												
50	53.7		Underlay 59.4	1	70												
63	55.6		57.8														

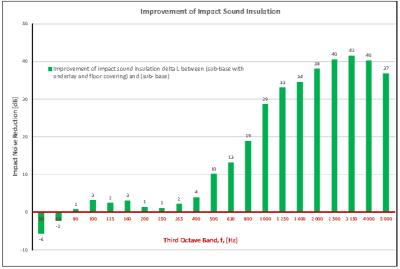


Wednesday 18 December 2019



L'nT,w Ci Ci(50-2500) Ci(63-2000) AAAC AS ISO 717.2 - 2004 AAAC Guidleline 56 -10 -8 -9 2 Star EIIC 46 ASTM E1007-14

Date of Test



Definitions of Noise Metrics

Field Impact Insulation Class is a single-number rating of how well a floor system attenuates impact type sounds, such as footsteps. Calculated from third-octave band normalised impact sound pressure level data and referenced to 10 m² as described in ASTM E989. The higher the single-number rating, the better its impact insulation performance.

66

L'nT,w:

FIIC:

The Weighted Standardised Impact Sound Pressure Level when measured in situ referenced to a reverberation time (RT60) of 0.5 seconds. Used by the AAAC to determine their respective Star Rating.

Ci:

Spectrum adaption term is a low frequency correction factor. Typically for massive floors such as concrete, the values are about zero while for timber joist floors Ci is positive because of the low resonant frequencies. Considers frequency range between 100 -and 2500 Hz.

Ci(50-2500):

Same as above, but for the frequency range 50 - 2500 Hz.

G(125-2000):

Same as above, but for the frequency range 125 -2000 Hz.

AAAC Star R.	2	3	4	5	6
L'nT w	65	55	50	45	40
FIIC	45	55	60	65	70
Comments	Below BCA62	Clearly Au dible	Audible	Barely In audible	Normally Inaudible