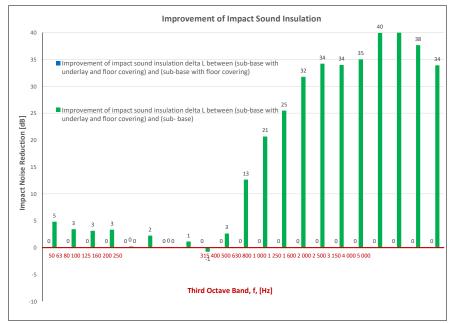
FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

FIELD	IVIEA3	UKEIVIE	1130		ACI	30		JULA			FLOC		5						
Date of Test	t:	Tuesday, 22	September	2020															
Project No.		4225																	
Testing Company : Koikas Acoustics			istics																
Checked by		Nick Koikas																	
Place of Tes	st:		building in N	acquarie	Park														
Client		Paxwood Pt	y Ltd (Clever	Choice D	Design Fl	loors)													
Client Addro	ess	-																	
		Name							T	hickness (r	mm Density	(SI)							
Description		Classic Lam	nate 12mm							12									
of		Clever Cork	3mm underl	ау						3									
Floor		Concrete								200									
System																			
Room		Width :	3.6																
Floor		Length :	3.6	m m															
Dimensions	_	Area :	13	m ²															
Dimensions	5	Area :	13	m-															
Sample		Width :	1	m															
Dimensions	5	Length :	1	m															
		Area :	1	m²															
																	n Surface	es	
			ation	Wid		Length	Area	Hei		Volume	9			Nalls			Floor		
Receiver Rm	n	Unit directly be	low - livingarea	3.6		3.6	13	2.	7	35			Plas	terboard		C	arpet		Pla
						90 r													
Frequency	L'nT (one-third oct	ave) dB	1		50													
f	Sub Base	Sub Base	Sub Base	1															
Hz		Floor	Floor			80													
			Underlay	ļ															
50	50.4	N/A	540																
50 63	59.4 57.5	N/A N/A	54.6 54.0			70													
80	56.0	N/A	52.9																
100	53.4	N/A	50.1	ł	_	60													
125	47.8	N/A	47.6		eve	I													
160	48.0	N/A	45.8		e L	1													-
200	47.0	N/A	46.9]	Standardised Impact Sound Pressure Level , ג'יחד, [dB]	50									_				
250	47.1	N/A N/A	46.0		res													_	
315	47.6		48.4		p	40													
400	47.4	N/A N/A	44.8		표면	40													
500 630	48.2 48.3	N/A	35.6 27.6		pact Sound , L'nT, [dB]											-			
800	48.3	N/A	22.8	ł	, r, ba	30											1		
1 000	47.5	N/A	15.8		느			Referenc Lir	e									-	
1 250	48.4	N/A	14.2		ised		_	ub Base											
1 600	46.3	N/A	12.4	1	ard	20													
2 000	48.2	N/A	13.2		pu			b Base Flo	or & Und	erlay									
2 500	52.5	N/A	12.5		Sta	10													
3 150	52.8	N/A	11.7			10													
4 000	49.2	N/A N/A	11.5																
5 000	44.5	10/4	10.6			ر ا					3 53	(1)	D (1				<u> </u>		
				1		ٽ د	63 80	100	125	160		315	400		800	1 000	1 600	2 000	2 500
											I	reque	ency, f, [H	z]		<u> </u>			0
		Base								ષ્ટ Floor					Sub E	Base, Flo			
L'nT,w	56	AS ISO 717.		-			L'nT,w				7.2 - 2004			L'nT		41		0 717.2	
Ci	-10	AS ISO 717.					Ci	N/			7.2 - 2004			C		0		0 717.2	
Ci(50-2500)		AS ISO 717.					Ci(50-250				7.2 - 2004			Ci(50-2		5		0 717.2	
Ci(63-2000)		AS ISO 717.					Ci(63-200				7.2 - 2004			Ci(63-2		3 E Stor		0 717.2	
AAAC	2 Star	AAAC Guidl					AAAC	N/		AAC Gui				AAA		5 Star		Guidle	

ASTM E1007-14



FIIC

ASTM E1007-14

Definitions of Noise Metrics

FIIC:

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 $10\,m^2$ as described in ASTM E989. The higher the single-number rating, the better its impact insulation performance.

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Ceiling Plasterboard

2 500 3 150 4 000

000

ASTM E1007-14

L'nT.w:

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.

Ci(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 BCA 62	Clearly Audible	Audible	Barely Inaudible	Normally Inaudible		