

Technical Summary

Part 1 : Dimensions

Width	190	mm
Length	2265	mm
Total Thickness	12.3	mm
Boards Per Box	5	planks
Box Size	2.1744	sqm

Part 2 : General Data

Click Lock System	Unilin on Long Ends & 5G Valinge on Short Ends
Core Type	Pure Pine Timber Core
Wear Resistance	AC4, Wear Class EN32
Finish	HD Embossed in Register (Oak Designs) Matte (Australian Timber Designs)
Installation Method	Floating Installation
Fade Resistant	Yes
Slip Resistance (Wet)	P2 (Reported SRV 33)
Slip Resistance (Dry)	D1 (0.59)
Box Weight	23.5kg
Profile	Micro Bevel
Pattern Repeat	2.4sqm Unique Designs

Part 3 : Warranty

General Residential	25	Years
Light Commercial	5	Years

Part 4 : Wet Slip Test Certificate

Sample Description Luxflor Hugo Laminate Flooring (EVERFLOOR)

Date Tested June 2018 (Tested through FORAY Laboratories – NATA Accreditation 1231)

Test Method : AS/NZS 4586-2013 Appendix A “Slip resistance classification of new pedestrian surface materials – Wet Pendulum Test Method” using a slider 96.

Test Data:

Sample Identification	Wet floor friction result ¹	Classification ² (Standards Australia AS 4586-2013)
Luxflor Hugo Laminate Flooring (EVERFLOOR)	33	P2

¹ Five test average value

² The classifications indicate that the contribution of the floor surfaces to the risk of slipping when wet is moderate



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PhD, BSc(Hons) AIMM, ARACI, ISIAQ
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Managing Director and Principal Consultant



Travis Hale
BSc (Biotech)
Senior Consultant



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Senior Consultant

V2104060

CETEC Pty Ltd ABN: 44 006 873 687 cetec.com.au | CETEC Foray Ltd Company No.:10251530
Melbourne | Sydney | Brisbane | Perth | London

Part 5 : Dry Slip Test Certificate

Test Method : AS/NZS 4586-2013 Appendix B “Slip resistance classification of new pedestrian surface materials – Dry Floor Friction Test Method”.

Test Data:

Sample Identification	Dry floor friction result ¹	Classification ² (AS 4586-2013 Australian Standards)
Luxflor Hugo Laminate Flooring (EVERFLOOR)	0.59	D1

¹ Five test average value

² The classifications indicate that the contribution of the floor surfaces to the risk of slipping when dry is low.



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Part 6 : Fire & Smoke Test Certificate

Test Method

: AS/ISO 9239-1:2003 Reaction to Fire Tests for Floorings. Determination of the Burning Behaviour using a Radiant Heat Source.

Reaction to Fire Tests for Floorings. Determination of the Burning Behaviour using a Radiant Heat Source

Date of Sample Arrival	18-12-2023			
Date Tested	16-01-2024			
CHF Value	1	2	3	Mean
Length	6.7	6.7	6.6	6.7 kW/m ²
Width	6.9	-	-	- kW/m ²
HF-30 Value	1	2	3	Mean
Length	7.2	6.7	6.6	6.8 kW/m ²
Width	7.6	-	-	- kW/m ²
Smoke Value	1	2	3	Mean
Length	33	90	30	51 %.min
Width	6	-	-	- %.min

V2104060

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Part 7 : VOC Test

TEST REPORT

Client : Everfloor
2A 87 Allingham Street
Condell Park NSW 2200

Test Number : 23-004869
Issue Date : 9/01/2024
Print Date : 25/01/2024

Sample Description Clients Ref : "HugoPro Laminate"
Laminate flooring
End Use : Flooring
Nominal Composition : Pine timber
Nominal Mass per Unit Area/Density : 860kg/m3
Nominal Thickness : 12.3mm

ASNZS 2098.11-2005

Formaldehyde Release

Test Result: 0.52 mg/L

Test pieces: 20 pieces were prepared
Conditions: 20+/-2degC and 65+/-5% Relative Humidity for 7 days

Tested at AWTA JSIC JinAo Testing Co Ltd
Date Tested: 27/12/2023
Test No: JA236964

314021

68048

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Samples, and their identifying descriptions have been provided by the client unless otherwise stated.
AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY.

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0205/11/06



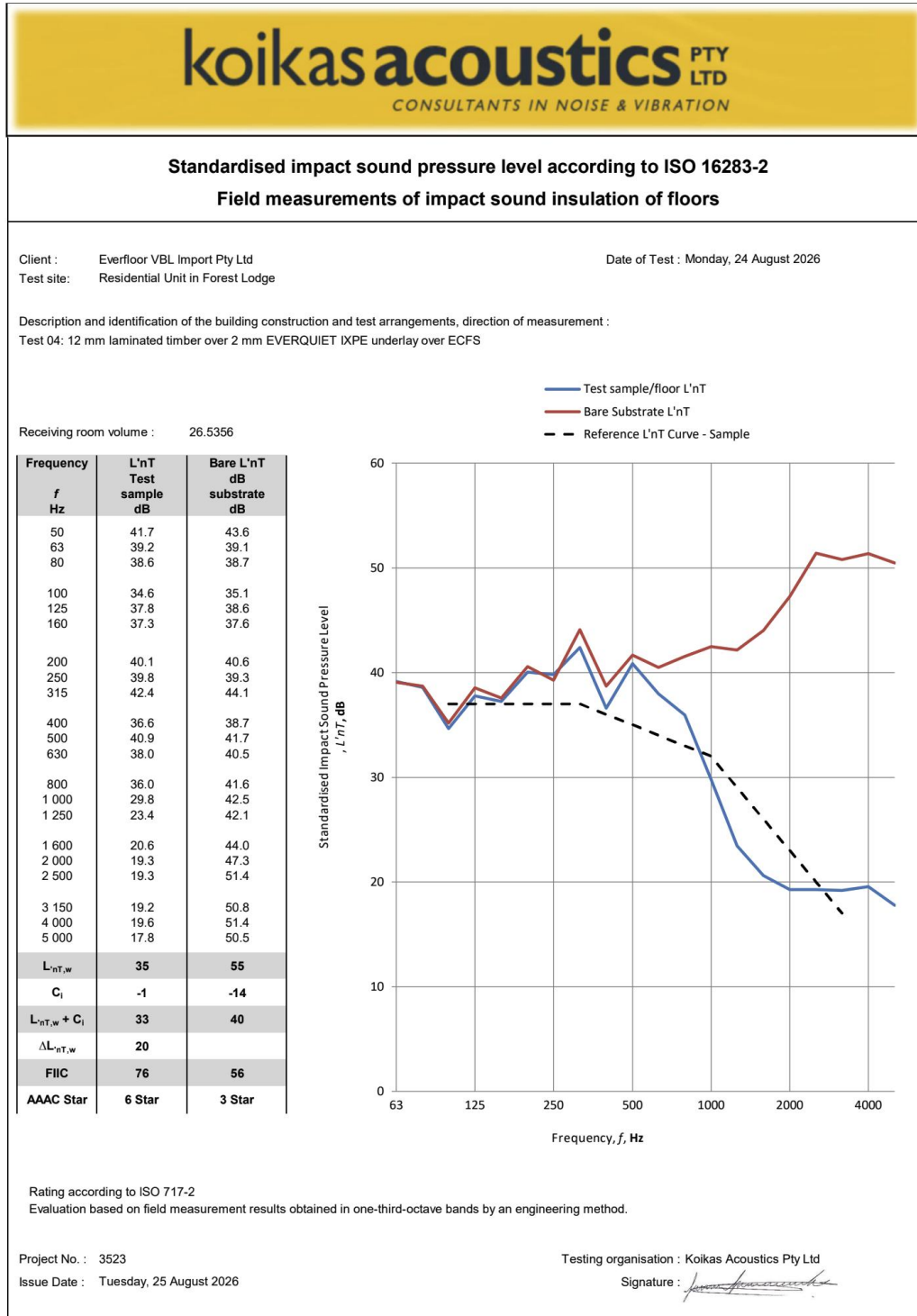
Fiona McDonald
APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc. (Hons)
MANAGING DIRECTOR

Part 8: Acoustic Test (12mm Laminate + 2MM EVERQUIET IXPE)

System Tested	L'_{nTw} ³	FIIC ^{4,5}	AAAC ⁶
Bare Concrete Floor (ECFS only) - for comparison purposes only	55	56	3
12mm Laminate Flooring + 2mm Everquiet IXPE Underlay	35	76	6



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Part 8: Acoustic Test (12mm Laminate + 3MM EVERQUIET IXPE)

System Tested	L'_{nTw} ³	FIIC ^{4,5}	AAAC ⁶
Bare Concrete Floor (ECFS only) - for comparison purposes only	55	49	3
12mm Laminate Flooring + 3mm Everquiet IXPE Underlay	42	65	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikasacoustics PTY LTD
CONSULTANTS IN NOISE & VIBRATION

Date of Test : Tuesday, 29 March 2022
Project No. : 3523
Testing Company : Koikas Acoustics
Checked by : Nick Koikas
Place of Test : Residential apartments in Sydney, NSW
Client : Everfloor / EverQuiet
Client Address : -

Description of Floor System	Name	Thickness (mm)	Density (SI)
12 mm laminate flooring	12 mm laminate flooring	12	--
3 mm EverQuiet IXPE underlay	3 mm EverQuiet IXPE underlay	3	--
Concrete slab	Concrete slab	180-200	--
Suspended ceiling	Suspended ceiling	80-150	--

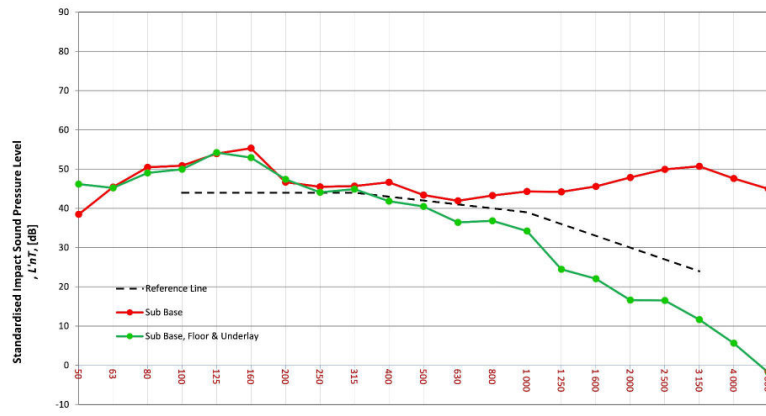
Room Dimensions
Width : 5 m
Length : 8 m
Area : 40.00 m²

Sample Dimensions
Width : 1 m
Length : 1 m
Area : 1 m²

Receiver Rm	Location	Width	Length	Area	Height	Volume
5	en/Dining/Living directly t	5	8	40.00	2.7	108.00

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

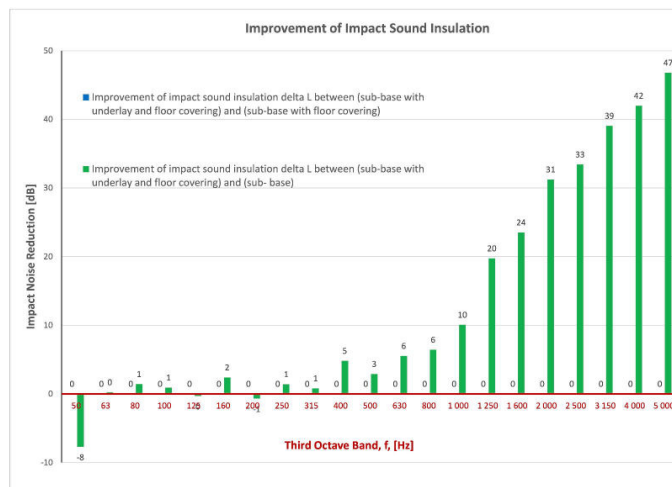
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	46.2
63	45.4	N/A	45.2
80	50.4	N/A	49.0
100	50.9	N/A	50.0
125	53.9	N/A	54.2
160	55.3	N/A	52.9
200	46.7	N/A	47.4
250	45.5	N/A	44.1
315	45.7	N/A	44.9
400	46.6	N/A	41.8
500	43.4	N/A	40.5
630	41.9	N/A	36.4
800	43.3	N/A	36.8
1 000	44.3	N/A	34.2
1 250	44.2	N/A	24.5
1 600	45.6	N/A	22.1
2 000	47.9	N/A	16.6
2 500	49.9	N/A	16.5
3 150	50.7	N/A	11.7
4 000	47.6	N/A	5.6
5 000	44.9	N/A	-1.8



Sub Base		
L'nT,w	55	AS ISO 717.2 - 2004
CI	-9	AS ISO 717.2 - 2004
CI(50-2500)	-9	AS ISO 717.2 - 2004
CI(63-2000)	-9	AS ISO 717.2 - 2004
AAAC★	3 Star	AAAC Guideline
FIIC	49	ASTM E1007-14

Sub Base & Floor		
L'nT,w	N/A	AS ISO 717.2 - 2004
CI	N/A	AS ISO 717.2 - 2004
CI(50-2500)	N/A	AS ISO 717.2 - 2004
CI(63-2000)	N/A	AS ISO 717.2 - 2004
AAAC★	N/A	AAAC Guideline
FIIC	N/A	ASTM E1007-14

Sub Base, Floor & Underlay		
L'nT,w	42	AS ISO 717.2 - 2004
CI	2	AS ISO 717.2 - 2004
CI(50-2500)	2	AS ISO 717.2 - 2004
CI(63-2000)	2	AS ISO 717.2 - 2004
AAAC★	5 Star	AAAC Guideline
FIIC	65	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 m² as described in ASTM E989. The higher the single-number rating, the better its impact insulation performance.

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

Acoustic test results provided are only indicative of acoustic performance and are site specific, so outcomes may vary from building to building. Everfloor provides this information for guidance and indicative purposes only and does not guarantee any specific acoustic outcome. Indicative testing has been completed by acoustic engineers according to AS/NZS ISO 140.7:2006 and the rating has been determined as per AS ISO 717.2:2004.

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Part 8: Acoustic Test (12mm Laminate + EQ312 RUBBER UNDERLAY)

System Tested	L'_{nTw} ³	FIIC ^{4,5}	AAAC ⁶
Bare Concrete Floor (ECFS only) - for comparison purposes only	55	49	3
12mm Laminate Flooring + EQ312 Rubber Underlay	44	62	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikasacoustics PTY LTD
CONSULTANTS IN NOISE & VIBRATION

Date of Test : Tuesday, 29 March 2022
Project No. : 3523
Testing Company : Koikas Acoustics
Checked by : Nick Koikas
Place of Test : Residential apartments in Sydney, NSW
Client : Everfloor / EverQuiet
Client Address : -

Description of Floor System	Name	Thickness (mm)	Density (Si)
12 mm laminate flooring	12 mm laminate flooring	12	--
3 mm EverQuiet Rubber EQ312 underlay	3 mm EverQuiet Rubber EQ312 underlay	3	--
Concrete slab	Concrete slab	180-200	--
Suspended ceiling	Suspended ceiling	80-150	--

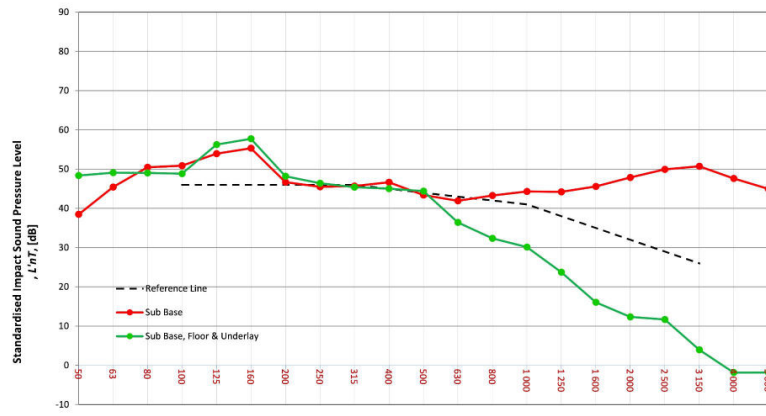
Room Width : 5 m
Floor Length : 8 m
Dimensions Area : 40.00 m²

Sample Width : 1 m
Dimensions Length : 1 m
Area : 1 m²

Receiver Rm	Location	Width	Length	Area	Height	Volume
5	en/Dining/Living directly t	5	8	40.00	2.7	108.00

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

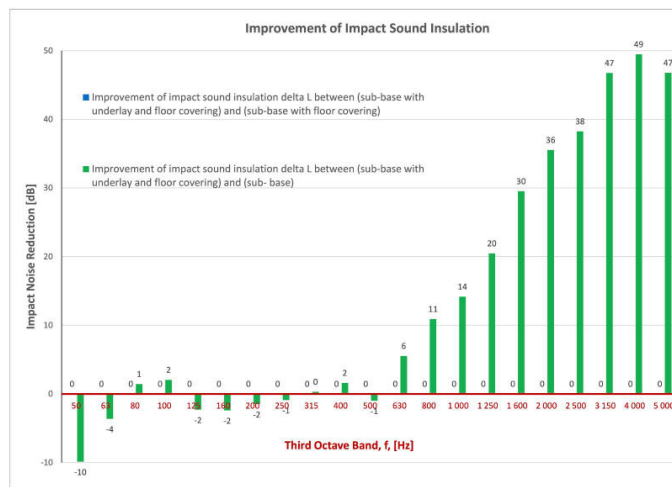
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	48.4
63	45.4	N/A	49.1
80	50.4	N/A	49.0
100	50.9	N/A	48.8
125	53.9	N/A	56.2
160	55.3	N/A	57.7
200	46.7	N/A	48.2
250	45.5	N/A	46.4
315	45.7	N/A	45.4
400	46.6	N/A	45.0
500	43.4	N/A	44.4
630	41.9	N/A	36.4
800	43.3	N/A	32.3
1 000	44.3	N/A	30.1
1 250	44.2	N/A	23.7
1 600	45.6	N/A	16.1
2 000	47.9	N/A	12.3
2 500	49.9	N/A	11.7
3 150	50.7	N/A	3.9
4 000	47.6	N/A	-1.9
5 000	44.9	N/A	-1.8



Sub Base	
L'nT,w	55
CI	-9
CI(50-2500)	-9
CI(63-2000)	-9
AAAC	3 Star
FIIC	49

Sub Base & Floor	
L'nT,w	N/A
CI	N/A
CI(50-2500)	N/A
CI(63-2000)	N/A
AAAC	5 Star
FIIC	N/A

Sub Base, Floor & Underlay	
L'nT,w	44
CI	2
CI(50-2500)	3
CI(63-2000)	3
AAAC	5 Star
FIIC	62



Definitions of Noise Metrics

FIIC:

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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

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Part 8: Acoustic Test (12mm Laminate + EQ512 Rubber Underlay)

System Tested	L'_{nTw} ³	FIIC ^{4,5}	AAAC ⁶
Bare Concrete Floor (ECFS only) - for comparison purposes only	55	49	3
12mm Laminate Flooring + EQ512 Rubber Underlay	44	62	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

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CONSULTANTS IN NOISE & VIBRATION

Date of Test : Tuesday, 29 March 2022
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Testing Company : Koikas Acoustics
Checked by : Nick Koikas
Place of Test : Residential apartments in Sydney, NSW
Client : Everfloor / EverQuiet
Client Address : -

Description of Floor System	Name	Thickness (mm)	Density (Si)
12 mm laminate flooring	12 mm laminate flooring	12	--
5 mm EverQuiet Rubber EQ512 underlay	5 mm EverQuiet Rubber EQ512 underlay	5	--
Concrete slab	Concrete slab	180-200	--
Suspended ceiling	Suspended ceiling	80-150	--

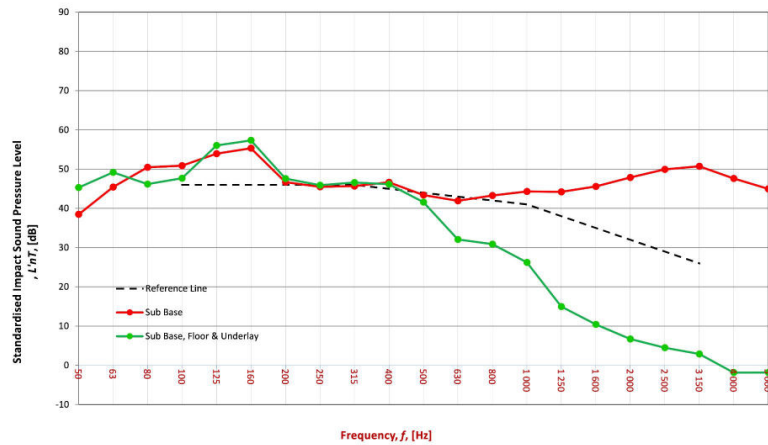
Room Dimensions	Width : 5 m
	Length : 8 m
	Area : 40.00 m ²

Sample Dimensions	Width : 1 m
	Length : 1 m
	Area : 1 m ²

Receiver Rm	Location	Width	Length	Area	Height	Volume
5	en/Dining/Living directly t	5	8	40.00	2.7	108.00

Room Surfaces
Walls: Plasterboard
Floor: Timber
Ceiling: Plasterboard

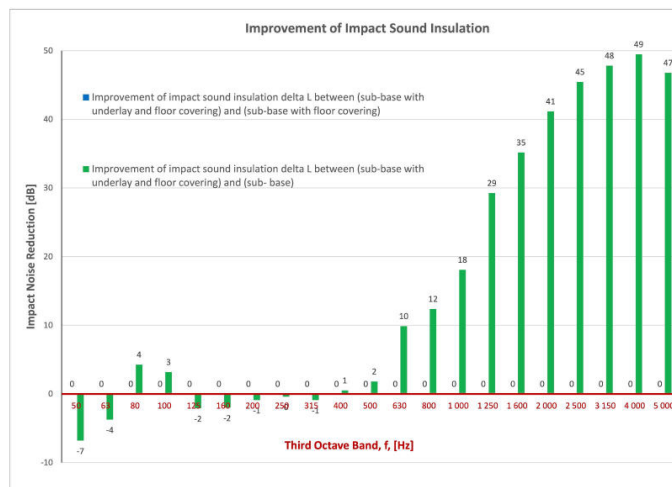
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	45.3
63	45.4	N/A	49.2
80	50.4	N/A	46.2
100	50.9	N/A	47.7
125	53.9	N/A	56.0
160	55.3	N/A	57.3
200	46.7	N/A	47.6
250	45.5	N/A	45.9
315	45.7	N/A	46.6
400	46.6	N/A	46.1
500	43.4	N/A	41.6
630	41.9	N/A	32.1
800	43.3	N/A	30.9
1 000	44.3	N/A	26.2
1 250	44.2	N/A	15.0
1 600	45.6	N/A	10.4
2 000	47.9	N/A	6.7
2 500	49.9	N/A	4.5
3 150	50.7	N/A	2.9
4 000	47.6	N/A	-1.9
5 000	44.9	N/A	-1.8



Sub Base		
L'nT,w	55	AS ISO 717.2 - 2004
Ci	-9	AS ISO 717.2 - 2004
Ci(50-2500)	-9	AS ISO 717.2 - 2004
Ci(63-2000)	-9	AS ISO 717.2 - 2004
AAAC★	3 Star	AAAC Guideline
FIIC	49	ASTM E1007-14

Sub Base & Floor		
L'nT,w	N/A	AS ISO 717.2 - 2004
CI	N/A	AS ISO 717.2 - 2004
Ci(50-2500)	N/A	AS ISO 717.2 - 2004
Ci(63-2000)	N/A	AS ISO 717.2 - 2004
AAAC★	N/A	AAAC Guideline
FIIC	N/A	ASTM E1007-14

Sub Base, Floor & Underlay		
L'nT,w	44	AS ISO 717.2 - 2004
CI	2	AS ISO 717.2 - 2004
Ci(50-2500)	2	AS ISO 717.2 - 2004
Ci(63-2000)	2	AS ISO 717.2 - 2004
AAAC★	5 Star	AAAC Guideline
FIIC	62	ASTM E1007-14



Definitions of Noise Metrics

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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.

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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

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Part 8: Acoustic Test (12mm Laminate + EQ515 Rubber Underlay)

System Tested	L'_{nTw} ³	FIIC ^{4,5}	AAAC ⁶
Bare Concrete Floor (ECFS only) - for comparison purposes only	55	49	3
12mm Laminate Flooring + EQ515 Rubber Underlay	43	63	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikasacoustics PTY LTD
CONSULTANTS IN NOISE & VIBRATION

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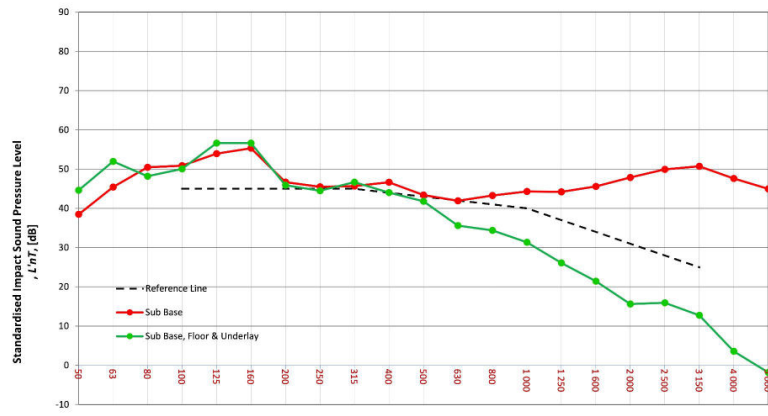
Description of Floor System	Name	Thickness (mm)	Density (SI)
12 mm laminate flooring	12 mm laminate flooring	12	--
5 mm EverQuiet Rubber EQ515 underlay	5 mm EverQuiet Rubber EQ515 underlay	5	--
Concrete slab	Concrete slab	180-200	--
Suspended ceiling	Suspended ceiling	80-150	--

Room Dimensions	Width : 5 m
	Length : 8 m
	Area : 40.00 m ²

Sample Dimensions	Width : 1 m
	Length : 1 m
	Area : 1 m ²

Receiver Rm	Location	Width	Length	Area	Height	Volume	Walls	Floor	Ceiling
5	en/Dining/Living directly t	5	8	40.00	2.7	108.00	Plasterboard	Timber	Plasterboard

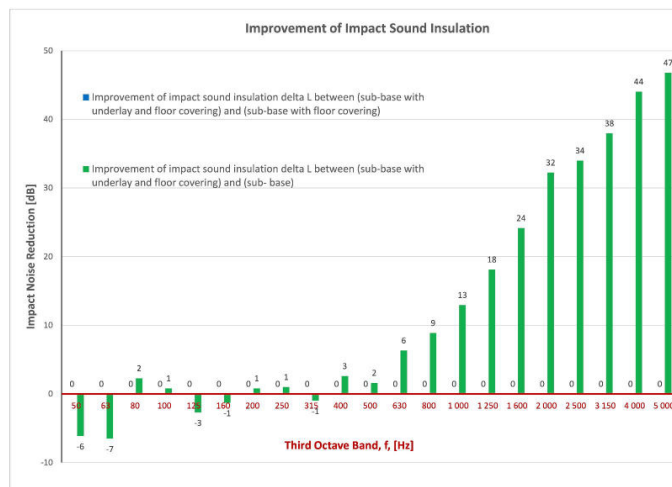
Frequency f Hz	L'nT (one-third octave) dB	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	44.6	
63	45.4	N/A	52.0	
80	50.4	N/A	48.2	
100	50.9	N/A	50.1	
125	53.9	N/A	56.6	
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200	46.7	N/A	45.9	
250	45.5	N/A	44.5	
315	45.7	N/A	46.7	
400	46.6	N/A	44.0	
500	43.4	N/A	41.8	
630	41.9	N/A	35.6	
800	43.3	N/A	34.4	
1 000	44.3	N/A	31.3	
1 250	44.2	N/A	26.1	
1 600	45.6	N/A	21.4	
2 000	47.9	N/A	15.6	
2 500	49.9	N/A	15.9	
3 150	50.7	N/A	12.7	
4 000	47.6	N/A	3.6	
5 000	44.9	N/A	-1.8	



Sub Base	L'nT,w	CI	CI(50-2500)	CI(63-2000)	AAAC	FIIC
55	-9	-9	-9	-9	3 Star	49
AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AAAC Guideline	ASTM E1007-14

Sub Base & Floor	L'nT,w	CI	CI(50-2500)	CI(63-2000)	AAAC	FIIC
N/A	N/A	N/A	N/A	N/A	5 Star	N/A
AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AAAC Guideline	ASTM E1007-14

Sub Base, Floor & Underlay	L'nT,w	CI	CI(50-2500)	CI(63-2000)	AAAC	FIIC
43	3	4	3	3	5 Star	63
AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AS ISO 717.2 - 2004	AAAC Guideline	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 m² as described in ASTM E989. The higher the single-number rating, the better its impact insulation performance.

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

Acoustic test results provided are only indicative of acoustic performance and are site specific, so outcomes may vary from building to building. Everfloor provides this information for guidance and indicative purposes only and does not guarantee any specific acoustic outcome. Indicative testing has been completed by acoustic engineers according to AS/NZS ISO 140.7:2006 and the rating has been determined as per AS ISO 717.2:2004.

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Part 8: Acoustic Test (12mm Laminate + EQ1012 Rubber Underlay)

System Tested	L'_{nTw} ³	FIIC ^{4,5}	AAAC ⁶
Bare Concrete Floor (ECFS only) - for comparison purposes only	55	49	3
12mm Laminate Flooring + EQ1012 Rubber Underlay	44	62	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikasacoustics PTY LTD
CONSULTANTS IN NOISE & VIBRATION

Date of Test : Tuesday, 29 March 2022
Project No. : 3523
Testing Company : Koikas Acoustics
Checked by : Nick Koikas
Place of Test : Residential apartments in Sydney, NSW
Client : Everfloor / EverQuiet
Client Address : -

Description of Floor System	Name	Thickness (mm)	Density (Si)
12 mm laminate flooring	12 mm laminate flooring	12	--
10 mm EverQuiet Rubber EQ1012 underlay	10 mm EverQuiet Rubber EQ1012 underlay	10	--
Concrete slab	Concrete slab	180-200	--
Suspended ceiling	Suspended ceiling	80-150	--

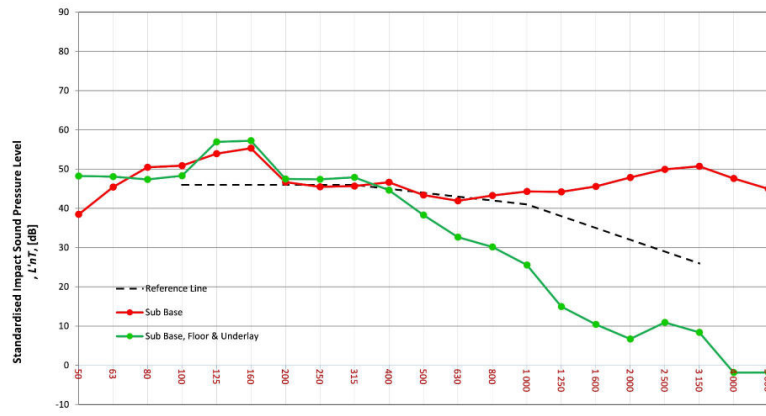
Room Dimensions
Width : 5 m
Length : 8 m
Area : 40.00 m²

Sample Dimensions
Width : 1 m
Length : 1 m
Area : 1 m²

Receiver Rm	Location	Width	Length	Area	Height	Volume
5	5m/Dining/Living directly t	5	8	40.00	2.7	108.00

Room Surfaces	Walls	Floor	Ceiling
Plasterboard	Plasterboard	Timber	Plasterboard

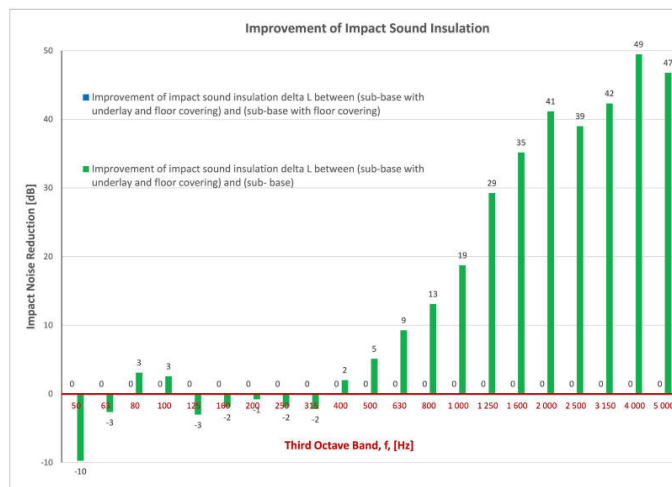
Frequency f Hz	L'nT (one-third octave) dB	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	48.2	
63	45.4	N/A	48.1	
80	50.4	N/A	47.3	
100	50.9	N/A	48.3	
125	53.9	N/A	56.9	
160	55.3	N/A	57.2	
200	46.7	N/A	47.5	
250	45.5	N/A	47.4	
315	45.7	N/A	47.9	
400	46.6	N/A	44.6	
500	43.4	N/A	38.3	
630	41.9	N/A	32.7	
800	43.3	N/A	30.2	
1 000	44.3	N/A	25.6	
1 250	44.2	N/A	15.0	
1 600	45.6	N/A	10.4	
2 000	47.9	N/A	6.7	
2 500	49.9	N/A	10.9	
3 150	50.7	N/A	8.4	
4 000	47.6	N/A	-1.9	
5 000	44.9	N/A	-1.8	



Sub Base	L'nT,w	CI	CI(50-2500)	CI(63-2000)	AAAC	FIIC
55	-9	AS ISO 717.2 - 2004	-9	AS ISO 717.2 - 2004	3 Star	49
ASTM E1007-14						

Sub Base & Floor	L'nT,w	CI	CI(50-2500)	CI(63-2000)	AAAC	FIIC
N/A	N/A	AS ISO 717.2 - 2004	N/A	AS ISO 717.2 - 2004	N/A	N/A
ASTM E1007-14						

Sub Base, Floor & Underlay	L'nT,w	CI	CI(50-2500)	CI(63-2000)	AAAC	FIIC
44	2	AS ISO 717.2 - 2004	3	AS ISO 717.2 - 2004	5 Star	62
ASTM E1007-14						



Definitions of Noise Metrics

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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

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Part 8: Acoustic Test (12mm Laminate + EQW512 Rubber Wavy Underlay)

System Tested	L'_{nTw} ³	FIIC ^{4,5}	AAAC ⁶
Bare Concrete Floor (ECFS only) - for comparison purposes only	55	49	3
12mm Laminate Flooring + EQW512 Rubber Wavy Underlay	42	64	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikasacoustics PTY LTD
CONSULTANTS IN NOISE & VIBRATION

Date of Test : Tuesday, 29 March 2022
Project No. : 3523
Testing Company : Koikas Acoustics
Checked by : Nick Koikas
Place of Test : Residential apartments in Sydney, NSW
Client : Everfloor / EverQuiet
Client Address : -

Description of Floor System	Name	Thickness (mm)	Density (SI)
12 mm laminate flooring	12 mm laminate flooring	12	--
5 mm EverQuiet Rubber Wavy EQW512 underlay	5 mm EverQuiet Rubber Wavy EQW512 underlay	5	--
Concrete slab	Concrete slab	180-200	--
Suspended ceiling	Suspended ceiling	80-150	--

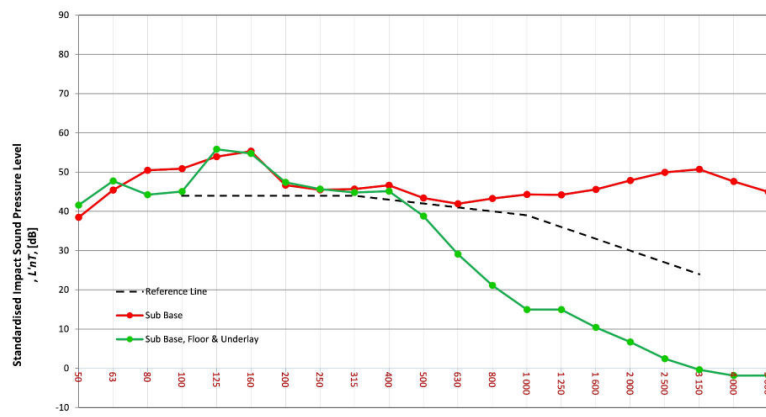
Room Dimensions
Width : 5 m
Length : 8 m
Area : 40.00 m²

Sample Dimensions
Width : 1 m
Length : 1 m
Area : 1 m²

Receiver Rm	Location	Width	Length	Area	Height	Volume
5	5m/Dining/Living directly t	5	8	40.00	2.7	108.00

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

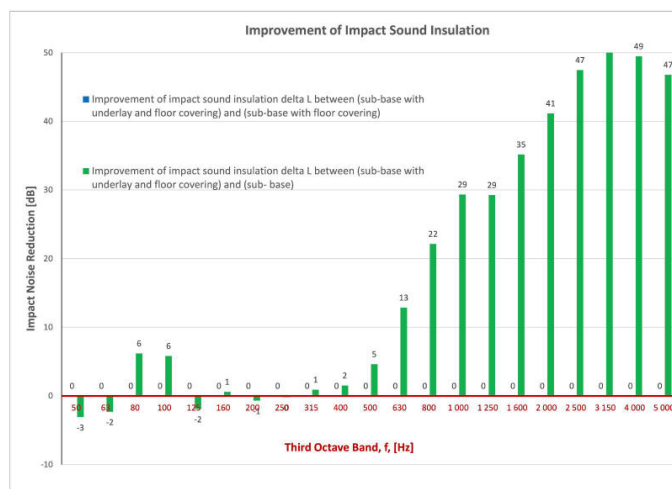
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	41.6
63	45.4	N/A	47.8
80	50.4	N/A	44.3
100	50.9	N/A	45.1
125	53.9	N/A	55.8
160	55.3	N/A	54.7
200	46.7	N/A	47.4
250	45.5	N/A	45.7
315	45.7	N/A	44.8
400	46.6	N/A	45.1
500	43.4	N/A	38.8
630	41.9	N/A	29.1
800	43.3	N/A	21.1
1000	44.3	N/A	14.9
1250	44.2	N/A	15.0
1600	45.6	N/A	10.4
2000	47.9	N/A	6.7
2500	49.9	N/A	2.5
3150	50.7	N/A	-0.4
4000	47.6	N/A	-1.9
5000	44.9	N/A	-1.8



Sub Base		
L'nT,w	55	AS ISO 717.2 - 2004
CI	-9	AS ISO 717.2 - 2004
CI(50-2500)	-9	AS ISO 717.2 - 2004
CI(63-2000)	-9	AS ISO 717.2 - 2004
AAAC★	3 Star	AAAC Guideline
FIIC	49	ASTM E1007-14

Sub Base & Floor		
L'nT,w	N/A	AS ISO 717.2 - 2004
CI	N/A	AS ISO 717.2 - 2004
CI(50-2500)	N/A	AS ISO 717.2 - 2004
CI(63-2000)	N/A	AS ISO 717.2 - 2004
AAAC★	N/A	AAAC Guideline
FIIC	N/A	ASTM E1007-14

Sub Base, Floor & Underlay		
L'nT,w	42	AS ISO 717.2 - 2004
CI	2	AS ISO 717.2 - 2004
CI(50-2500)	3	AS ISO 717.2 - 2004
CI(63-2000)	3	AS ISO 717.2 - 2004
AAAC★	5 Star	AAAC Guideline
FIIC	64	ASTM E1007-14



Definitions of Noise Metrics

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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

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Part 8: Acoustic Test (12mm Laminate + EQW1012 Rubber Wavy Underlay)

System Tested	L'_{nTw} ³	FIIC ^{4,5}	AAAC ⁶
Bare Concrete Floor (ECFS only) - for comparison purposes only	55	49	3
12mm Laminate Flooring + EQW1012 Rubber Wavy Underlay	44	63	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikasacoustics PTY LTD
CONSULTANTS IN NOISE & VIBRATION

Date of Test : Tuesday, 29 March 2022
Project No. : 3523
Testing Company : Koikas Acoustics
Checked by : Nick Koikas
Place of Test : Residential apartments in Sydney, NSW
Client : Everfloor / EverQuiet
Client Address : -

Description of Floor System	Name	Thickness (mm)	Density (Si)
12 mm laminate flooring	12 mm laminate flooring	12	--
10 mm EverQuiet Rubber Wavy EQW1012 underlay	10 mm EverQuiet Rubber Wavy EQW1012 underlay	10	--
Concrete slab	Concrete slab	180-200	--
Suspended ceiling	Suspended ceiling	80-150	--

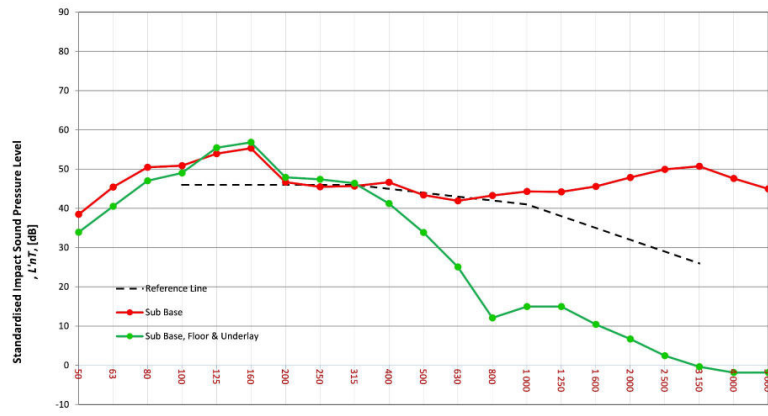
Room Dimensions
Width : 5 m
Length : 8 m
Area : 40.00 m²

Sample Dimensions
Width : 1 m
Length : 1 m
Area : 1 m²

Receiver Rm	Location	Width	Length	Area	Height	Volume
5	5m/Dining/Living directly t	5	8	40.00	2.7	108.00

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

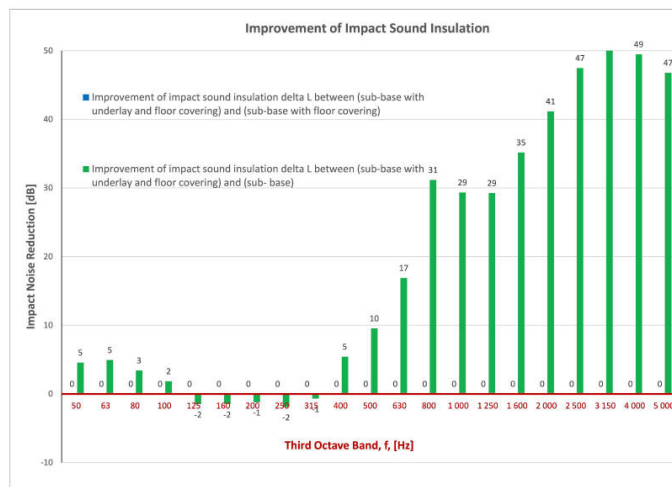
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	33.9
63	45.4	N/A	40.5
80	50.4	N/A	47.0
100	50.9	N/A	49.0
125	53.9	N/A	55.4
160	55.3	N/A	56.8
200	46.7	N/A	47.9
250	45.5	N/A	47.4
315	45.7	N/A	46.4
400	46.6	N/A	41.2
500	43.4	N/A	33.8
630	41.9	N/A	25.1
800	43.3	N/A	12.1
1000	44.3	N/A	14.9
1250	44.2	N/A	15.0
1600	45.6	N/A	10.4
2000	47.9	N/A	6.7
2500	49.9	N/A	2.5
3150	50.7	N/A	-0.4
4000	47.6	N/A	-1.9
5000	44.9	N/A	-1.8



Sub Base		
L'nT,w	55	AS ISO 717.2 - 2004
CI	-9	AS ISO 717.2 - 2004
CI(50-2500)	-9	AS ISO 717.2 - 2004
CI(63-2000)	-9	AS ISO 717.2 - 2004
AAAC★	3 Star	AAAC Guideline
FIIC	49	ASTM E1007-14

Sub Base & Floor		
L'nT,w	N/A	AS ISO 717.2 - 2004
CI	N/A	AS ISO 717.2 - 2004
CI(50-2500)	N/A	AS ISO 717.2 - 2004
CI(63-2000)	N/A	AS ISO 717.2 - 2004
AAAC★	N/A	AAAC Guideline
FIIC	N/A	ASTM E1007-14

Sub Base, Floor & Underlay		
L'nT,w	44	AS ISO 717.2 - 2004
CI	1	AS ISO 717.2 - 2004
CI(50-2500)	2	AS ISO 717.2 - 2004
CI(63-2000)	2	AS ISO 717.2 - 2004
AAAC★	5 Star	AAAC Guideline
FIIC	63	ASTM E1007-14



Definitions of Noise Metrics

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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.

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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

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Part 8: Acoustic Test (12mm Laminate + EQW512 + 2mm IXPE)

System Tested	L'_{nTw} ³	FIIC ^{4,5}	AAAC ⁶
Bare Concrete Floor (ECFS only) - for comparison purposes only	55	49	3
12mm Laminate Flooring + EQW512 Rubber Wavy Underlay + 2mm IXPE	43	64	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

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CONSULTANTS IN NOISE & VIBRATION

Date of Test : Tuesday, 29 March 2022
Project No. : 3523
Testing Company : Koikas Acoustics
Checked by : Nick Koikas
Place of Test : Residential apartments in Sydney, NSW
Client : Everfloor / EverQuiet
Client Address : -

Name	Thickness (mm)	Density (SI)
12 mm Laminate flooring	12	--
5 mm EverQuiet Rubber Wavy EQW512 + 2 mm EverQuiet IXPE	7	--
Concrete slab	180-200	--
Suspended ceiling	80-150	--

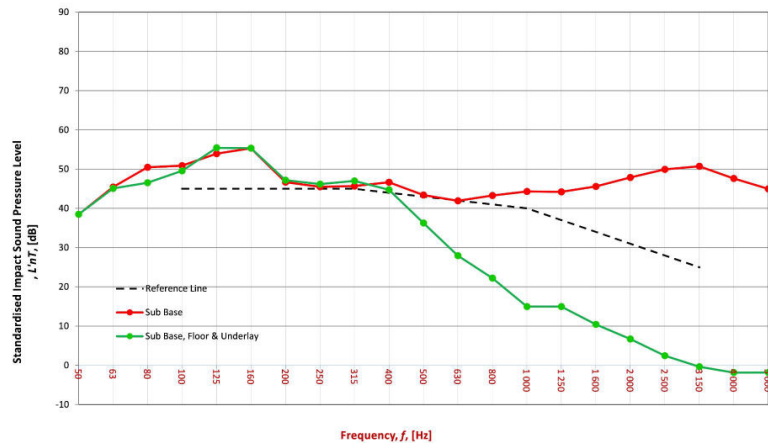
Room Width : 5 m
Floor Length : 8 m
Dimensions Area : 40.00 m²

Sample Width : 1 m
Dimensions Length : 1 m
Area : 1 m²

Receiver Rm	Location	Width	Length	Area	Height	Volume
5	en/Dining/Living directly t	5	8	40.00	2.7	108.00

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

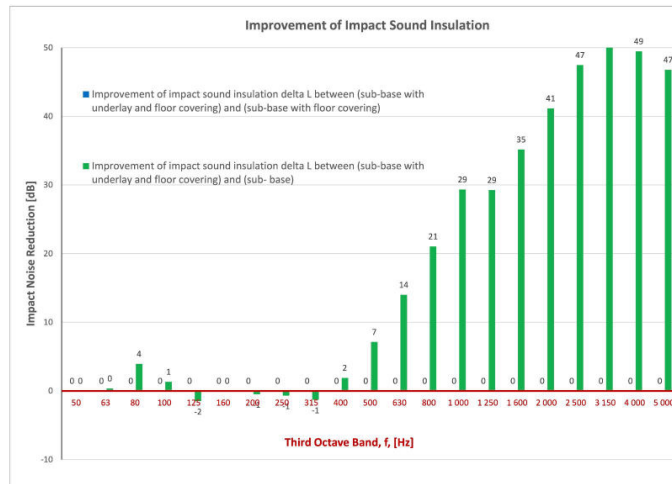
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
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400	46.6	N/A	44.7
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630	41.9	N/A	27.9
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1000	44.3	N/A	14.9
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3150	50.7	N/A	-0.4
4000	47.6	N/A	-1.9
5000	44.9	N/A	-1.8



Sub Base		
L'nT,w	55	AS ISO 717.2 - 2004
CI	-9	AS ISO 717.2 - 2004
CI(50-2500)	-9	AS ISO 717.2 - 2004
CI(63-2000)	-9	AS ISO 717.2 - 2004
AAAC★	3 Star	AAAC Guideline
FIIC	49	ASTM E1007-14

Sub Base & Floor		
L'nT,w	N/A	AS ISO 717.2 - 2004
CI	N/A	AS ISO 717.2 - 2004
CI(50-2500)	N/A	AS ISO 717.2 - 2004
CI(63-2000)	N/A	AS ISO 717.2 - 2004
AAAC★	N/A	AAAC Guideline
FIIC	N/A	ASTM E1007-14

Sub Base, Floor & Underlay		
L'nT,w	43	AS ISO 717.2 - 2004
CI	2	AS ISO 717.2 - 2004
CI(50-2500)	2	AS ISO 717.2 - 2004
CI(63-2000)	2	AS ISO 717.2 - 2004
AAAC★	5 Star	AAAC Guideline
FIIC	64	ASTM E1007-14



Definitions of Noise Metrics

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CI(125-2000):

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AAAC Star R.	2	3	4	5	6
L'nT,w	65	55	50	45	40
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Comments	Below BCA 62	Clearly Audible	Audible	Barely Inaudible	Normally Inaudible

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