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 : Royal ProCore Laminate (Royal Floors)

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)**
Royal ProCore Laminate	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

Dr. Vyt Garnys
PhD, BSc(Hons) AIMM, ARACI, ISIAQ
ACA, AIRAH, FMA
Managing Director and Principal Consultant

Travis Hale
BSc (Biotech)
Senior Consultant

Dr. Tuan Duong
PhD, B. Eng. (Chemical)
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)**
Royal ProCore Laminate	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.

Dr. Vyt Garnys
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ACA, AIRAH, FMA
Managing Director and Principal Consultant

Travis Hale
BSc (Biotech)
Senior Consultant

Dr. Tuan Duong
PhD, B. Eng. (Chemical)
Senior Consultant

V2104060

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/m²
Width	6.9	-	-	-	kW/m²
HF-30 Value	1	2	3	Mean	
Length	7.2	6.7	6.6	6.8	kW/m²
Width	7.6	-	-	-	kW/m²
Smoke Value	1	2	3	Mean	
Length	33	90	30	51	%.min
Width	6	-	-	-	%.min

V2104060

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

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.

This document shall not be reproduced except in full and shall be rendered void ifamended or altered.

This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by theManaging Director of AWTA Ltd.

AWTA LIMITED

0205/11/06

Fiona McDonald
APPROVED SIGNATORY

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

Part 8: Acoustic Test (Royal ProCore Laminate + 2MM EVERQUIET IXPE)

System Tested	L'_{nTw} [3]	FIIC [4, 5]	AAAC [6]
Bare Concrete Floor (ECFS only) - for comparison purposes only	55	49	3
Royal ProCore Laminate + 2mm Everquiet IXPE Underlay	42	65	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikas acoustics 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	-

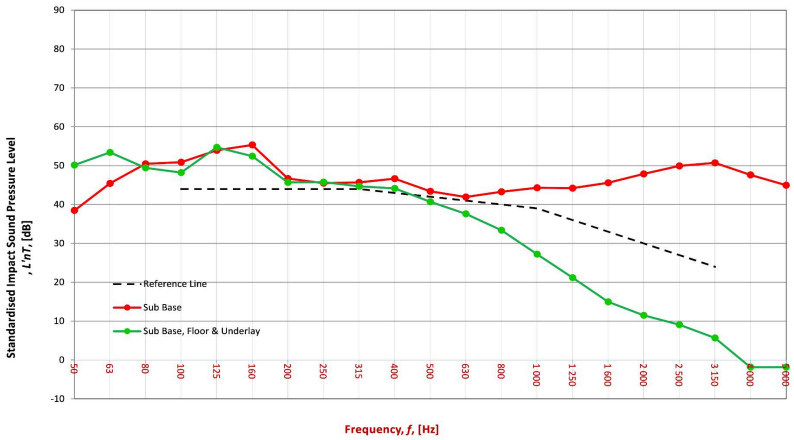
	Name	Thickness (mm)	Density (Sl)
Description of Floor System	12 mm laminate flooring	12	--
	2 mm EverQuiet IXPE underlay	2	--
	Concrete slab	180-200	--
	Suspended ceiling	80-150	--

Room Floor Dimensions	Width :	5	m
	Length :	8	m
	Area :	40.00	m^2
Sample Dimensions	Width :	1	m
	Length :	1	m
	Area :	1	m^2

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

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

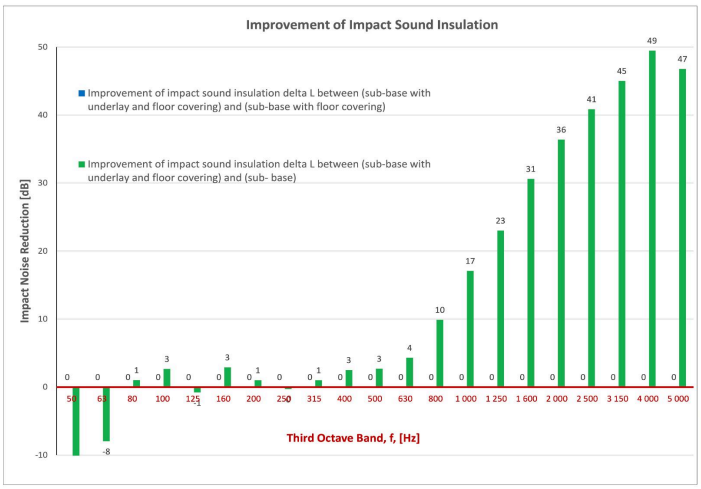
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	50.2
63	45.4	N/A	53.4
80	50.4	N/A	49.4
100	50.9	N/A	48.2
125	53.9	N/A	54.7
160	55.3	N/A	52.4
200	46.7	N/A	45.7
250	45.5	N/A	45.8
315	45.7	N/A	44.7
400	46.6	N/A	44.1
500	43.4	N/A	40.7
630	41.9	N/A	37.6
800	43.3	N/A	33.4
1 000	44.3	N/A	27.2
1 250	44.2	N/A	21.2
1 600	45.6	N/A	15.0
2 000	47.9	N/A	11.5
2 500	49.9	N/A	9.1
3 150	50.7	N/A	5.7
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 Guidleline
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 Guidleline
FIIC	N/A	ASTM E1007-14

Sub Base, Floor & Underlay		
L'nT,w	42	AS ISO 717.2 - 2004
Ci	1	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 Guidleline
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 m^2 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. Royal Floors 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 (Royal ProCore 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
Royal ProCore Laminate + 3mm Everquiet IXPE Underlay	42	65	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikas acoustics 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	-

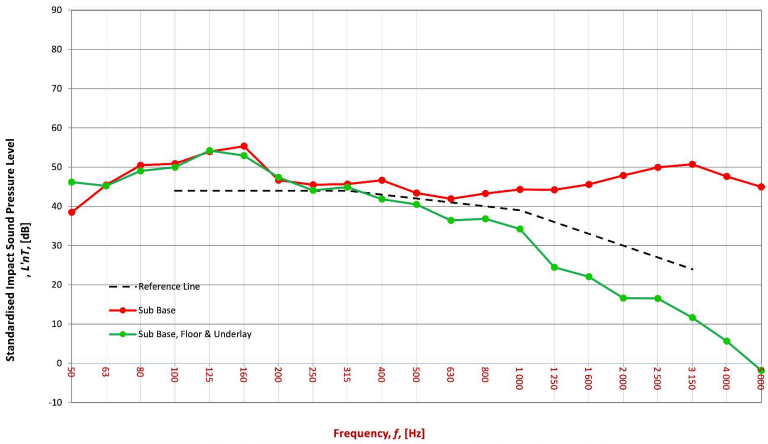
	Name	Thickness (mm)	Density (Sl)
Description of Floor System	12 mm laminate flooring	12	--
	3 mm EverQuiet IXPE underlay	3	--
	Concrete slab	180-200	--
	Suspended ceiling	80-150	--

Room Floor Dimensions	Width :	5	m
	Length :	8	m
	Area :	40.00	m^2
Sample Dimensions	Width :	1	m
	Length :	1	m
	Area :	1	m^2

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

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

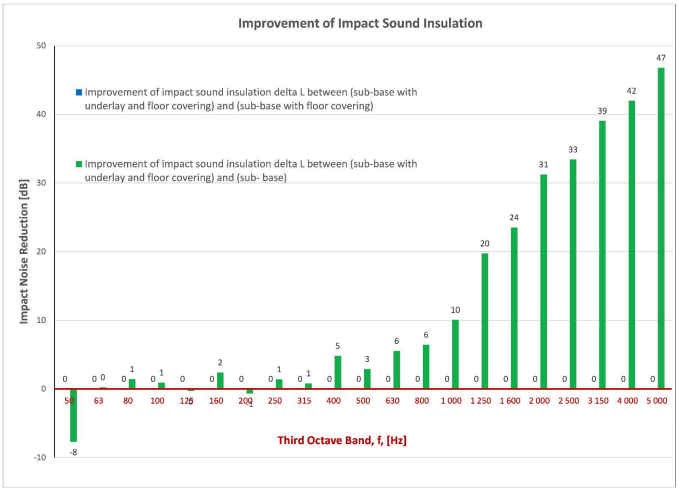
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	46.2
63	45.4	N/A	45.2
80	50.4	N/A	49.0
100	50.9	N/A	50.0
125	53.9	N/A	54.2
160	55.3	N/A	52.9
200	46.7	N/A	47.4
250	45.5	N/A	44.1
315	45.7	N/A	44.9
400	46.6	N/A	41.8
500	43.4	N/A	40.5
630	41.9	N/A	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 Guidleline
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 Guidleline
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 Guidleline
FIIC	65	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.

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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 (Royal ProCore 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
Royal ProCore Laminate + EQ312 Rubber Underlay	44	62	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikas acoustics 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	-

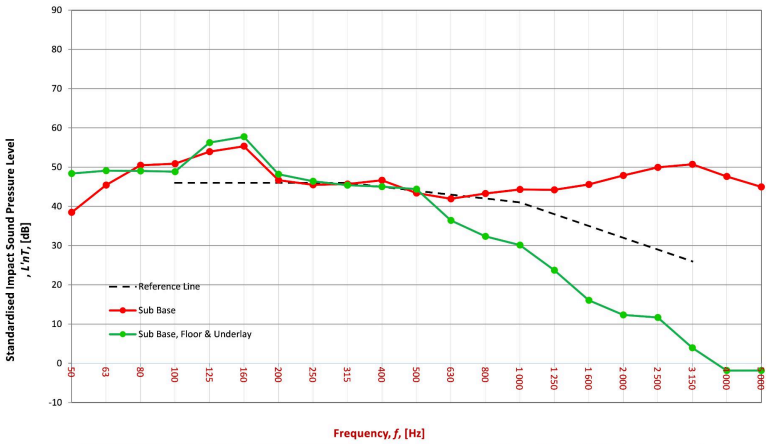
	Name	Thickness (mm)	Density (Sl)
Description of Floor System	12 mm laminate flooring	12	--
	3 mm EverQuiet Rubber EQ312 underlay	3	--
	Concrete slab	180-200	--
	Suspended ceiling	80-150	--

Room Floor Dimensions	Width :	5	m
	Length :	8	m
	Area :	40.00	m^2
Sample Dimensions	Width :	1	m
	Length :	1	m
	Area :	1	m^2

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

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

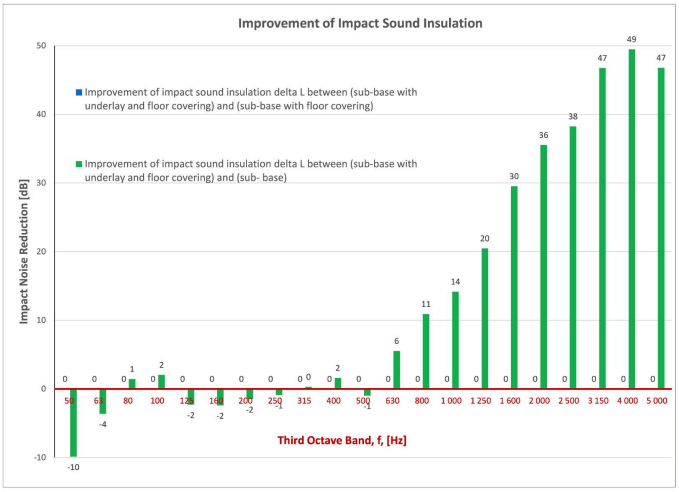
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	48.4
63	45.4	N/A	49.1
80	50.4	N/A	49.0
100	50.9	N/A	48.8
125	53.9	N/A	56.2
160	55.3	N/A	57.7
200	46.7	N/A	48.2
250	45.5	N/A	46.4
315	45.7	N/A	45.4
400	46.6	N/A	45.0
500	43.4	N/A	44.4
630	41.9	N/A	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	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 Guidleline
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 Guidleline
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)	3	AS ISO 717.2 - 2004
Ci(63-2000)	3	AS ISO 717.2 - 2004
AAAC ★	5 Star	AAAC Guidleline
FIIC	62	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.

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. Royal Floors 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.

Please visit royalfloors.com.au for the most up-to-date version of Warranty, Installation, and care and maintenance guidelines. All technical data and testing are based on random sampling and are for indicative purposes only. Version: April 2026

Part 8: Acoustic Test (Royal ProCore 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
Royal ProCore Laminate + EQ512 Rubber Underlay	44	62	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikas acoustics 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	-

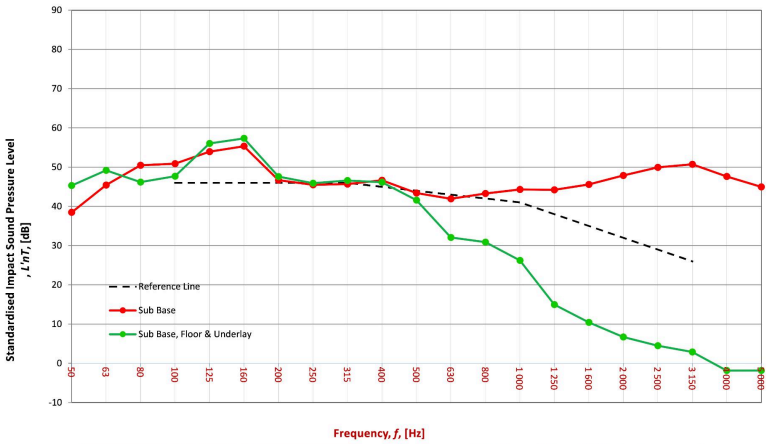
	Name	Thickness (mm)	Density (Sl)
Description of Floor System	12 mm laminate flooring	12	--
	5 mm EverQuiet Rubber EQ512 underlay	5	--
	Concrete slab	180-200	--
	Suspended ceiling	80-150	--

Room Floor Dimensions	Width :	5	m
	Length :	8	m
	Area :	40.00	m^2
Sample Dimensions	Width :	1	m
	Length :	1	m
	Area :	1	m^2

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

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

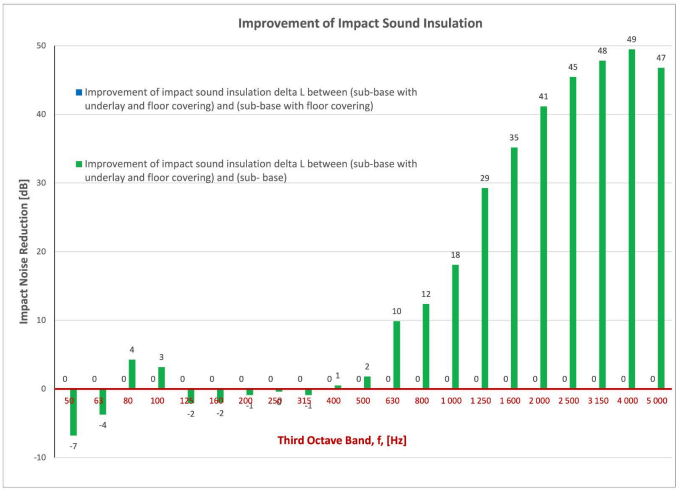
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	45.3
63	45.4	N/A	49.2
80	50.4	N/A	46.2
100	50.9	N/A	47.7
125	53.9	N/A	56.0
160	55.3	N/A	57.3
200	46.7	N/A	47.6
250	45.5	N/A	45.9
315	45.7	N/A	46.6
400	46.6	N/A	46.1
500	43.4	N/A	41.6
630	41.9	N/A	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 Guidleline
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 Guidleline
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 Guidleline
FIIC	62	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.

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. Royal Floors 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 (Royal ProCore 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
Royal ProCore Laminate + EQ515 Rubber Underlay	43	63	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikas acoustics 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	-

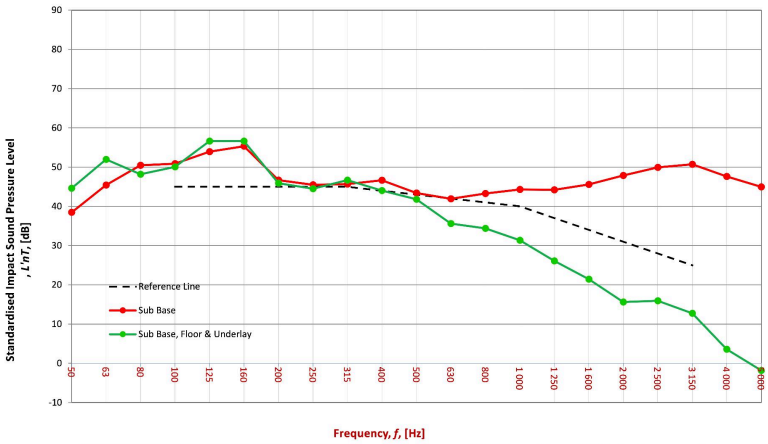
	Name	Thickness (mm)	Density (Sl)
Description of Floor System	12 mm laminate flooring	12	--
	5 mm EverQuiet Rubber EQ515 underlay	5	--
	Concrete slab	180-200	--
	Suspended ceiling	80-150	--

Room Floor Dimensions	Width :	5	m
	Length :	8	m
	Area :	40.00	m^2
Sample Dimensions	Width :	1	m
	Length :	1	m
	Area :	1	m^2

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

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

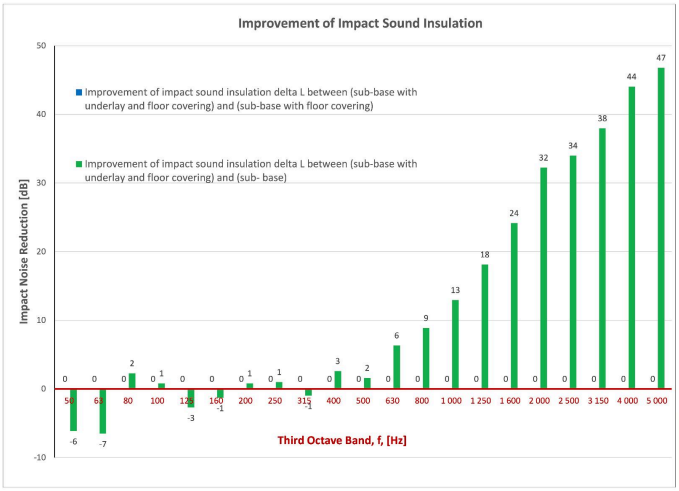
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	44.6
63	45.4	N/A	52.0
80	50.4	N/A	48.2
100	50.9	N/A	50.1
125	53.9	N/A	56.6
160	55.3	N/A	56.6
200	46.7	N/A	45.9
250	45.5	N/A	44.5
315	45.7	N/A	46.7
400	46.6	N/A	44.0
500	43.4	N/A	41.8
630	41.9	N/A	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	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 Guidleline
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 Guidleline
FIIC	N/A	ASTM E1007-14

Sub Base, Floor & Underlay		
L'nT,w	43	AS ISO 717.2 - 2004
Ci	3	AS ISO 717.2 - 2004
Ci(50-2500)	4	AS ISO 717.2 - 2004
Ci(63-2000)	3	AS ISO 717.2 - 2004
AAAC ★	5 Star	AAAC Guidleline
FIIC	63	ASTM E1007-14



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

Acoustic test results provided are only indicative of acoustic performance and are site specific, so outcomes may vary from building to building. Royal Floors 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 (Royal ProCore 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
Royal ProCore Laminate + EQ1012 Rubber Underlay	44	62	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikas acoustics 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	-

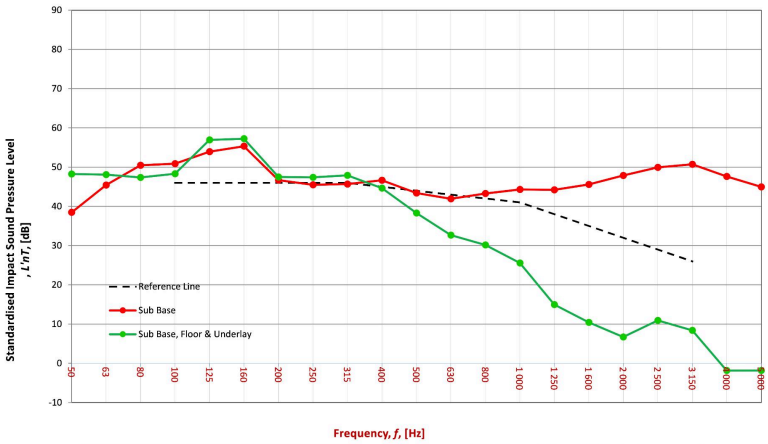
	Name	Thickness (mm)	Density (Sl)
Description of Floor System	12 mm laminate flooring	12	--
	10 mm EverQuiet Rubber EQ1012 underlay	10	--
	Concrete slab	180-200	--
	Suspended ceiling	80-150	--

Room Floor Dimensions	Width :	5	m
	Length :	8	m
	Area :	40.00	m^2
Sample Dimensions	Width :	1	m
	Length :	1	m
	Area :	1	m^2

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

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

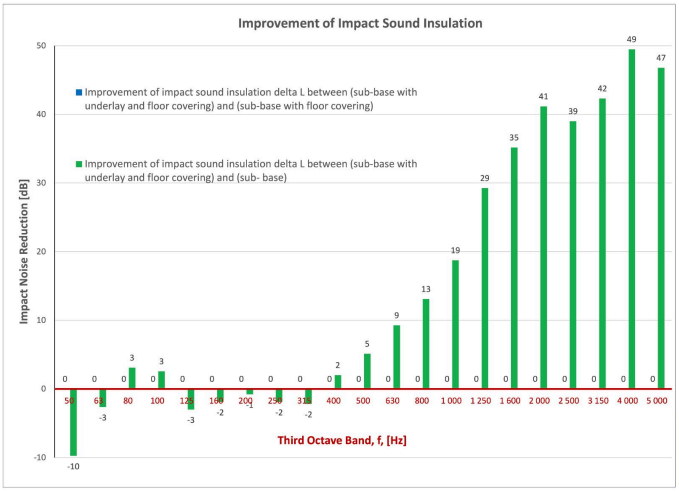
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	48.2
63	45.4	N/A	48.1
80	50.4	N/A	47.3
100	50.9	N/A	48.3
125	53.9	N/A	56.9
160	55.3	N/A	57.2
200	46.7	N/A	47.5
250	45.5	N/A	47.4
315	45.7	N/A	47.9
400	46.6	N/A	44.6
500	43.4	N/A	38.3
630	41.9	N/A	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	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)	3	AS ISO 717.2 - 2004
Ci(63-2000)	3	AS ISO 717.2 - 2004
AAAC ★	5 Star	AAAC Guideline
FIIC	62	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.

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. Royal Floors 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 (Royal ProCore 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
Royal ProCore Laminate + EQW512 Rubber Wavy Underlay	42	64	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikas acoustics 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	-

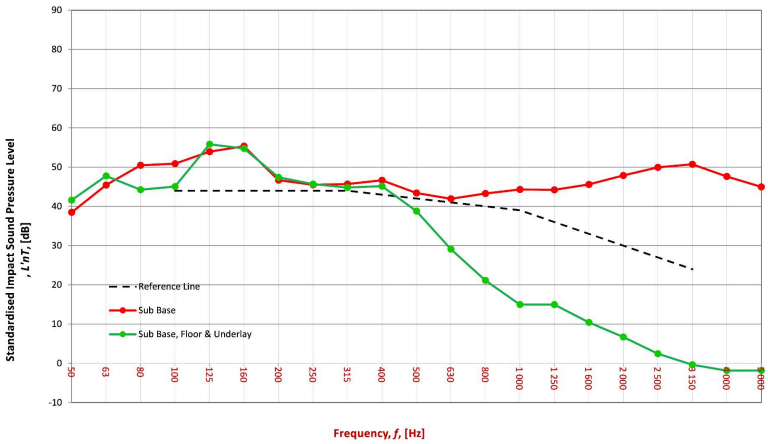
	Name	Thickness (mm)	Density (Sl)
Description of Floor System	12 mm laminate flooring	12	--
	5 mm EverQuiet Rubber Wavy EQW512 underlay	5	--
	Concrete slab	180-200	--
	Suspended ceiling	80-150	--

Room Floor Dimensions	Width :	5	m
	Length :	8	m
	Area :	40.00	m^2
Sample Dimensions	Width :	1	m
	Length :	1	m
	Area :	1	m^2

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

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

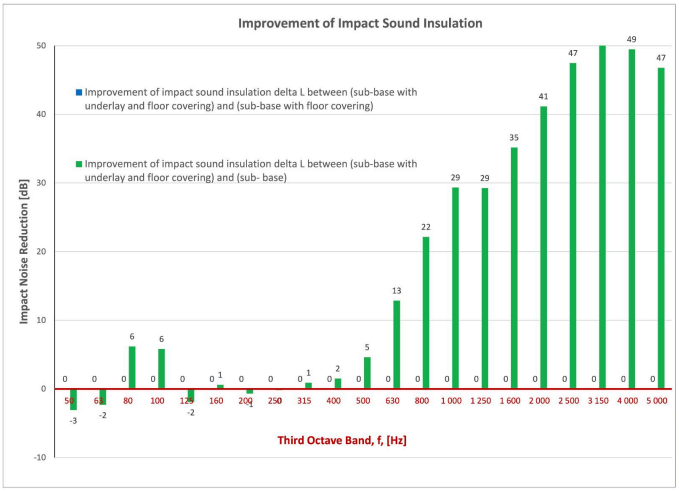
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	41.6
63	45.4	N/A	47.8
80	50.4	N/A	44.3
100	50.9	N/A	45.1
125	53.9	N/A	55.8
160	55.3	N/A	54.7
200	46.7	N/A	47.4
250	45.5	N/A	45.7
315	45.7	N/A	44.8
400	46.6	N/A	45.1
500	43.4	N/A	38.8
630	41.9	N/A	29.1
800	43.3	N/A	21.1
1 000	44.3	N/A	14.9
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	2.5
3 150	50.7	N/A	-0.4
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 Guidleline
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 Guidleline
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 Guidleline
FIIC	64	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.

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. Royal Floors 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 (Royal ProCore 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
Royal ProCore Laminate + EQW1012 Rubber Wavy Underlay	44	63	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikas acoustics 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	-

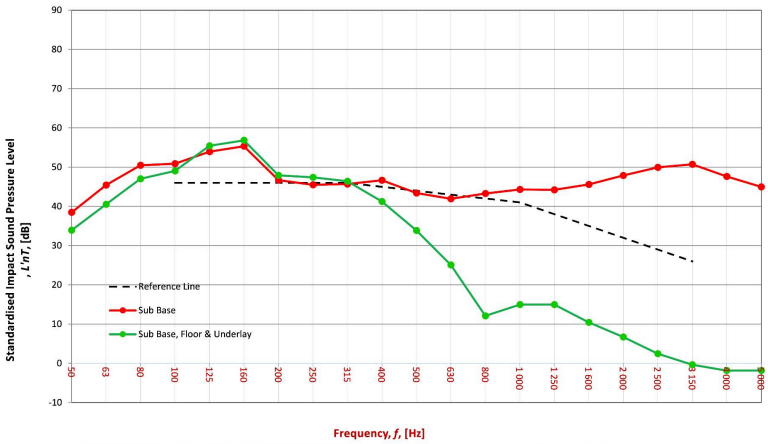
	Name	Thickness (mm)	Density (Sl)
Description of Floor System	12 mm laminate flooring	12	--
	10 mm EverQuiet Rubber Wavy EQW1012 underlay	10	--
	Concrete slab	180-200	--
	Suspended ceiling	80-150	--

Room Floor Dimensions	Width :	5	m
	Length :	8	m
	Area :	40.00	m^2
Sample Dimensions	Width :	1	m
	Length :	1	m
	Area :	1	m^2

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

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

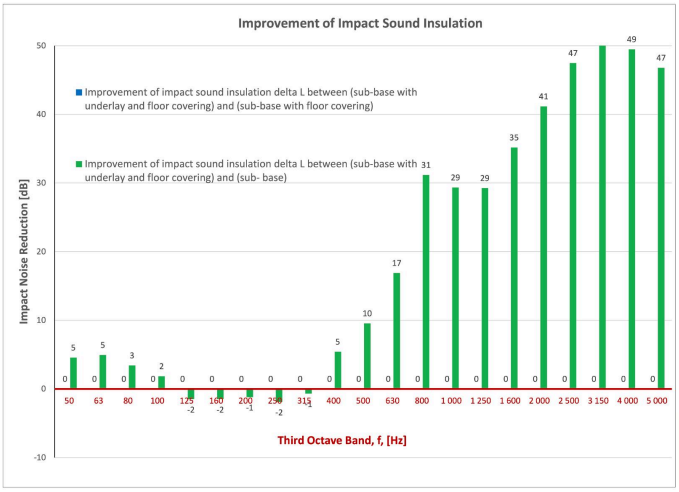
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	33.9
63	45.4	N/A	40.5
80	50.4	N/A	47.0
100	50.9	N/A	49.0
125	53.9	N/A	55.4
160	55.3	N/A	56.8
200	46.7	N/A	47.9
250	45.5	N/A	47.4
315	45.7	N/A	46.4
400	46.6	N/A	41.2
500	43.4	N/A	33.8
630	41.9	N/A	25.1
800	43.3	N/A	12.1
1 000	44.3	N/A	14.9
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	2.5
3 150	50.7	N/A	-0.4
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	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

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.

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. Royal Floors 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 (Royal ProCore 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
Royal ProCore Laminate + EQW512 Rubber Wavy Underlay + 2mm IXPE	43	64	5

FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS

koikas acoustics 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	-

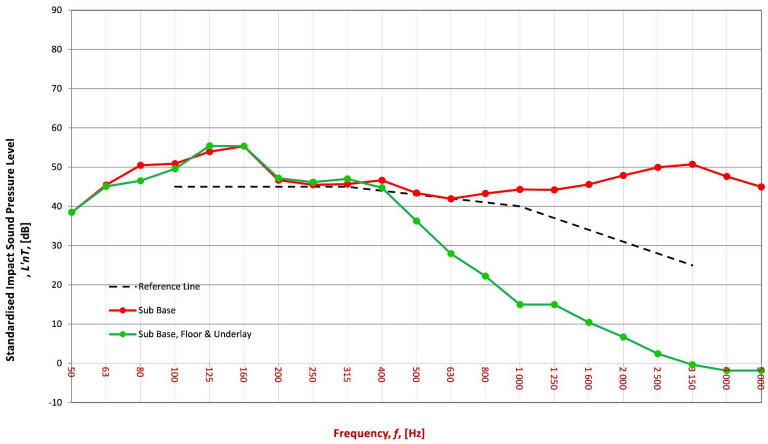
	Name	Thickness (mm)	Density (Sl)
Description of Floor System	12 mm laminate flooring	12	--
	5 mm EverQuiet Rubber Wavy EQW512 + 2 mm EverQuiet IXPE	7	--
	Concrete slab	180-200	--
	Suspended ceiling	80-150	--

Room Floor Dimensions	Width :	5	m
	Length :	8	m
	Area :	40.00	m^2
Sample Dimensions	Width :	1	m
	Length :	1	m
	Area :	1	m^2

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

Room Surfaces		
Walls	Floor	Ceiling
Plasterboard	Timber	Plasterboard

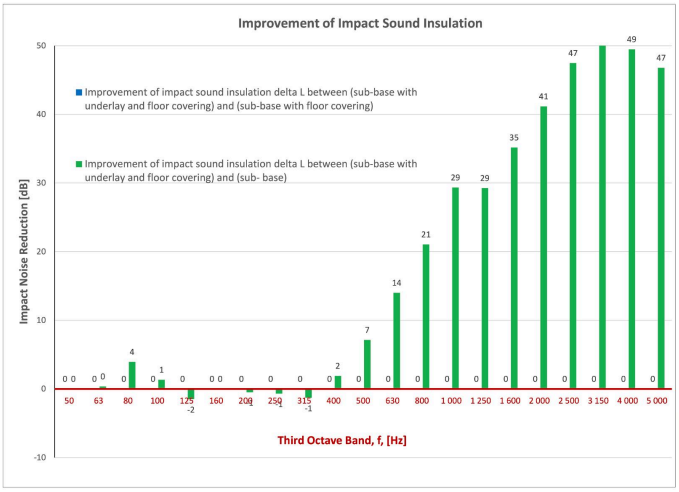
Frequency f Hz	L'nT (one-third octave) dB		
	Sub Base	Sub Base Floor	Sub Base Floor Underlay
50	38.5	N/A	38.5
63	45.4	N/A	45.1
80	50.4	N/A	46.5
100	50.9	N/A	49.5
125	53.9	N/A	55.4
160	55.3	N/A	55.3
200	46.7	N/A	47.2
250	45.5	N/A	46.2
315	45.7	N/A	47.0
400	46.6	N/A	44.7
500	43.4	N/A	36.3
630	41.9	N/A	27.9
800	43.3	N/A	22.2
1 000	44.3	N/A	14.9
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	2.5
3 150	50.7	N/A	-0.4
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	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

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.

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. Royal Floors 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.

Please visit royalfloors.com.au for the most up-to-date version of Warranty, Installation, and care and maintenance guidelines. All technical data and testing are based on random sampling and are for indicative purposes only. Version: April 2026