

## Technical Summary

### Part 1 : Dimensions

|                         |   |        |
|-------------------------|---|--------|
| <b>Width</b>            | 136   | mm     |
| <b>Length</b>           | 1900 / 1820 / 1850 / 2100<br>(Specific length of board is dependent on the batch of timber available)     | mm     |
| <b>Total Thickness</b>  | 14.2  | mm     |
| <b>Veneer Thickness</b> | 3.2<br>(Brushing effect may reduce total thickness in certain areas, making veneer between 2.0mm - 2.2mm) | mm     |
| <b>Boards Per Box</b>   | 5   | planks |
| <b>Box Size</b>         | 2.0128 or Other<br>(Please confirm with batch in stock)   | sqm    |

### Part 2 : General Data

|                                |  |
|--------------------------------|--|
| <b>Origin of Timber Veneer</b> | Australia  |
| <b>Janka Hardness</b>          | Spotted Gum: 11 (ATFA Classification: Very Hard)<br>Blackbutt: 9.1 (ATFA Classification: Very Hard)  |
| <b>Structure</b>               | Australian Timber + Cross Bonded Ply Core (7 Layers)   |
| <b>Surface Lacquer</b>         | <p>EverGuard™ Protection, developed with Teknos Treffert Parquet Lacquer, each board with 9 - 11 Coats, utilising 6 types of lacquer:</p> <ul style="list-style-type: none"> <li>✦ UV PU Insulation Base Coat</li> <li>✦ UV Transparent Sealer Base Coat</li> <li>✦ UV Anti Scratch Sealer Base Coat</li> <li>✦ UV Sealer Low Gloss Base Coat</li> <li>✦ UV Super Matt Top Coat</li> </ul> |

|                              |  |
|------------------------------|--|
| <b>Adhesive</b>              | Koyok International KOYOBOND®  |
| <b>Edging</b>                | Square Edge or Micro-Bevelled Edging   |
| <b>Finish</b>                | Light Brushed, Ultra-Matt  |
| <b>Installation Method</b>   | Floating Installation<br>Strip Glue Installation<br>Trowel Glue Installation   |
| <b>Slip Resistance (Wet)</b> | P2 (Reported SRV 36)<br><i>Note: Result was P3, but classification was reduced to P2 because two results were less than the mean minus twenty percent.</i> |
| <b>Box Weight</b>            | 21kg<br>(Approximate. Please confirm with the batch in stock.)   |
| <b>Installation Areas</b>    | Residential and Commercial   |

### Part 3 : Installation

|                            |   |
|----------------------------|---|
| <b>Floated on Underlay</b> | Yes<br>Suitable with all <a href="#">EverQuiet® Hard Floor Underlay</a> . Please confirm suitability with other underlays with your installer or retailer. A plastic moisture barrier is required under all installations.  |
| <b>Trowel Glue</b>         | Yes (3 - 6mm V-notch trowel)  |
| <b>Strip Glue</b>          | Yes   |
| <b>Nailed</b>              | No  |
| <b>Underfloor Heating</b>  | Not Suitable<br>Australian eucalyptus timbers are not recommended over underfloor heating, as they present a greater risk of surface "checking" with changes in temperature. If the customer proceeds to install over underfloor heating, we cannot provide a product warranty to the customer. |

## Part 4 : Timber Grading Specifications

|                              |   |
|------------------------------|---|
| <b>Timber Grade</b>          | Standard  |
| <b>Moisture Content</b>      | 9 - 11%   |
| <b>Colour Variation</b>      | Yes   |
| <b>Filled Defects</b>        | Yes   |
| <b>Sapwood</b>               | Yes   |
| <b>Heartwood</b>             | Yes   |
| <b>Pirth</b>                 | None  |
| <b>Underfloor Heating</b>    | Yes, suitable with hydronic in-slab heating. Please refer to installation instructions. |
| <b>Filler</b>                | Medium Black  |
| <b>Maximum Size of Knots</b> | ≈< 25mm Diameter  |
| <b>Gum Veins</b>             | Allowed   |
| <b>End Checks</b>            | Filled or Removed   |
| <b>Insect Damage</b>         | 80% Removed, 20% Filled   |
| <b>Ingrown Bark</b>          | None  |

## Part 5 : Warranty

|   |    |       |
|---|----|-------|
| <b>General Residential (Structural)</b> | 25 | Years |
| <b>Light Commercial (Structural)</b>    | 5  | Years |

## Part 6: Fire Test

### TEST REPORT

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

**Test Number :** 23-005191  
**Issue Date :** 16/01/2024  
**Print Date :** 20/02/2024

|          |   |     |     |     |                       |
|----------|---|-----|-----|-----|-----------------------|
| <b>d</b> | <b>Reaction to Fire Tests for Floorings. Determination of the Burning Behaviour using a Radiant Heat Source</b> |     |     |     |                       |
|          | 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 <sup>2</sup> |
|          | Width   | 6.9 | -   | -   | - kW/m <sup>2</sup>   |
|          | HF-30 Value   | 1   | 2   | 3   | Mean                  |
|          | Length  | 7.2 | 6.7 | 6.6 | 6.8 kW/m <sup>2</sup> |
|          | Width   | 7.6 | -   | -   | - kW/m <sup>2</sup>   |
|          | Smoke Value   | 1   | 2   | 3   | Mean                  |
|          | Length  | 33  | 90  | 30  | 51 % .min             |
|          | Width   | 6   | -   | -   | - % .min              |

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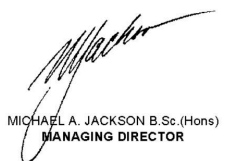


Accredited for compliance with ISO/IEC 17025 - Testing  
 Accreditation Numbers: 983, 985, and 1356

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Fiona McDonald  
 APPROVED SIGNATORY



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

0204/11/06

## Part 7 : Slip Test

### TEST REPORT

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

**Test Number :** 23-005193  
**Issue Date :** 8/01/2024  
**Print Date :** 6/03/2024

**AS 4586-2013  
 Appendix A**

**Slip Resistance Classification of new Pedestrian Surface Materials  
 Wet Pendulum Test Method**

Date of Testing 22-12-2023  
 Operator AWTA Test Operator 14  
 Test Temperature (20±5degC) 23 °C  
 Washed with pH neutral detergent and then dried  
 Test Direction Length  
 Fixed/Unfixed Unfixed  
 Slider No 96 Batch No 23  

|                         |    |    |    |    |    |     |
|-------------------------|----|----|----|----|----|-----|
| Length                  | 1  | 2  | 3  | 4  | 5  | SRV |
| British Pendulum number | 22 | 23 | 24 | 23 | 23 | 23  |

 Classification P1

Equipment: Cooper Pendulum Skid Tester Serial No: 1433-01 Calibrated 11/10/2023  
 Slider prepared using P400 and 3µm lapping film.

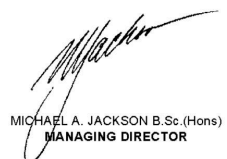
These results apply only to the specimens tested and it is recommended that before selection of flooring or paving materials the effect of service conditions, including maintenance and wear on their slip resistance be checked.



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

# Part 8: Acoustic Test (Royal Aus Timber 14/3mm + 2mm EVERQUIET IXPE Underlay)

| System Tested  | $L'_{nTw}$ <sup>3</sup> | FIIC <sup>4, 5</sup> | AAAC <sup>6</sup> |
|--|-------------------------|----------------------|-------------------|
| Bare Concrete Floor (ECFS only) - for comparison purposes only                         | 55                      | 49                   | 3                 |
| Royal Aus Timber 14/3mm + EQW512 5mm Rubber Wavy Underlay+ 2mm Everquiet IXPE Underlay | 42                      | 67                   | 5                 |

## FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS



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 (Sf) |
|-----------------------------|------------------------------|----------------|--------------|
| Room Floor Dimensions       | 14 mm engineered flooring    | 14             | --           |
|                             | 2 mm EverQuiet IXPE underlay | 2              | --           |
|                             | Concrete slab                | 180-200        | --           |
|                             | Suspended ceiling            | 80-150         | --           |

| Room Floor Dimensions | Width | Length | Area                 |
|-----------------------|-------|--------|----------------------|
| Room                  | 5 m   | 8 m    | 40.00 m <sup>2</sup> |
| Sample Dimensions     | 1 m   | 1 m    | 1 m <sup>2</sup>     |

| 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 |

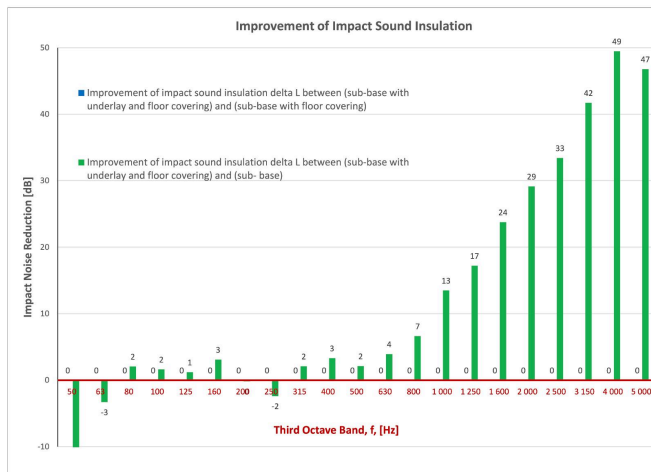
| Frequency f Hz | L'nT (one-third octave) dB |                |                         |
|----------------|----------------------------|----------------|-------------------------|
|                | Sub Base                   | Sub Base Floor | Sub Base Floor Underlay |
| 50             | 38.5                       | N/A            | 48.6                    |
| 63             | 45.4                       | N/A            | 48.8                    |
| 80             | 50.4                       | N/A            | 48.4                    |
| 100            | 50.9                       | N/A            | 49.2                    |
| 125            | 53.9                       | N/A            | 52.7                    |
| 160            | 55.3                       | N/A            | 52.2                    |
| 200            | 46.7                       | N/A            | 46.9                    |
| 250            | 45.5                       | N/A            | 47.9                    |
| 315            | 45.7                       | N/A            | 43.6                    |
| 400            | 46.6                       | N/A            | 43.3                    |
| 500            | 43.4                       | N/A            | 41.3                    |
| 630            | 41.9                       | N/A            | 38.0                    |
| 800            | 43.3                       | N/A            | 36.6                    |
| 1 000          | 44.3                       | N/A            | 30.8                    |
| 1 250          | 44.2                       | N/A            | 27.0                    |
| 1 600          | 45.6                       | N/A            | 21.8                    |
| 2 000          | 47.9                       | N/A            | 18.7                    |
| 2 500          | 49.9                       | N/A            | 16.5                    |
| 3 150          | 50.7                       | N/A            | 9.0                     |
| 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             | N/A |
| FIIC             | N/A |

| Sub Base, Floor & Underlay |        |
|----------------------------|--------|
| L'nT,w                     | 42     |
| CI                         | 1      |
| CI(50-2500)                | 2      |
| CI(63-2000)                | 2      |
| AAAC                       | 5 Star |
| FIIC                       | 67     |



**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<sup>2</sup> 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 Aus Timber 14/3mm + 3mm EVERQUIET IXPE Underlay)

| System Tested   | $L'_{nTw}$ <sup>3</sup> | FIIC <sup>4, 5</sup> | AAAC <sup>6</sup> |
|---|-------------------------|----------------------|-------------------|
| Bare Concrete Floor (ECFS only) - for comparison purposes only                          | 55                      | 49                   | 3                 |
| Royal Aus Timber 14/3mm + EQW512 5mm Rubber Wavy Underlay + 3mm Everquiet IXPE Underlay | 43                      | 63                   | 5                 |

## FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS



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                  | Thickness (mm) | Density (S) |
|------------------------------|----------------|-------------|
| 14 mm engineered flooring    | 14             | --          |
| 3 mm EverQuiet IXPE underlay | 3              | --          |
| Concrete slab                | 180-200        | --          |
| Suspended ceiling            | 80-150         | --          |

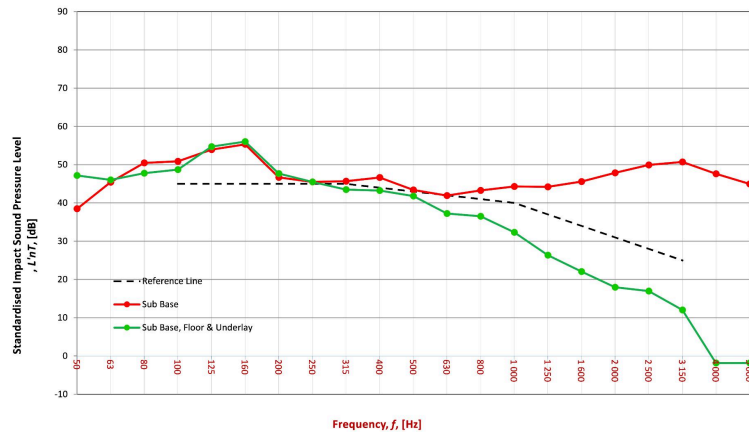
Room Width: 5 m  
 Floor Length: 8 m  
 Dimensions Area: 40.00 m<sup>2</sup>

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

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

| Room Surfaces |        |              |
|---------------|--------|--------------|
| Walls         | Floor  | Ceiling      |
| Plasterboard  | Timber | Plasterboard |

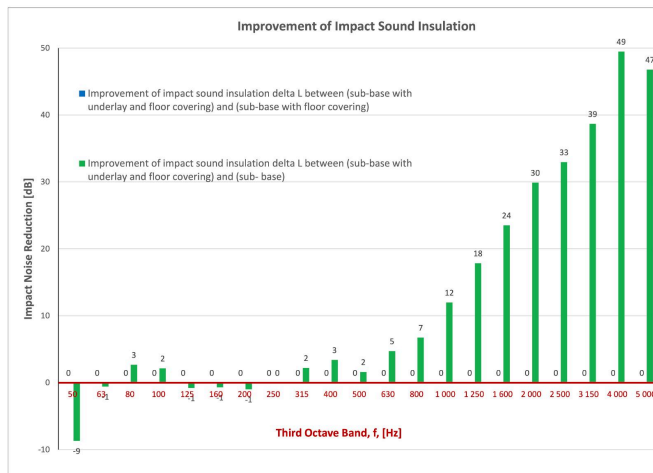
| Frequency f Hz | L'nT (one-third octave) dB |                |                         |
|----------------|----------------------------|----------------|-------------------------|
|                | Sub Base                   | Sub Base Floor | Sub Base Floor Underlay |
| 50             | 38.5                       | N/A            | 47.2                    |
| 63             | 45.4                       | N/A            | 46.0                    |
| 80             | 50.4                       | N/A            | 47.8                    |
| 100            | 50.9                       | N/A            | 48.7                    |
| 125            | 53.9                       | N/A            | 54.7                    |
| 160            | 55.3                       | N/A            | 56.0                    |
| 200            | 46.7                       | N/A            | 47.7                    |
| 250            | 45.5                       | N/A            | 45.5                    |
| 315            | 45.7                       | N/A            | 43.5                    |
| 400            | 46.6                       | N/A            | 43.2                    |
| 500            | 43.4                       | N/A            | 41.8                    |
| 630            | 41.9                       | N/A            | 37.2                    |
| 800            | 43.3                       | N/A            | 36.5                    |
| 1000           | 44.3                       | N/A            | 32.3                    |
| 1250           | 44.2                       | N/A            | 26.3                    |
| 1600           | 45.6                       | N/A            | 22.1                    |
| 2000           | 47.9                       | N/A            | 18.0                    |
| 2500           | 49.9                       | N/A            | 17.0                    |
| 3150           | 50.7                       | N/A            | 12.0                    |
| 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                       | 63     | ASTM E1007-14       |



### Definitions of Noise Metrics

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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 |

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 Aus Timber 14/3mm + EQ312 3mm Rubber Underlay)

| System Tested   | $L'_{nTw}$ <sup>3</sup> | FIIC <sup>4, 5</sup> | AAAC <sup>6</sup> |
|---|-------------------------|----------------------|-------------------|
| Bare Concrete Floor (ECFS only) - for comparison purposes only                      | 55                      | 49                   | 3                 |
| Royal Aus Timber 14/3mm + EQW512 5mm Rubber Wavy Underlay+EQ312 3mm Rubber Underlay | 43                      | 63                   | 5                 |

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

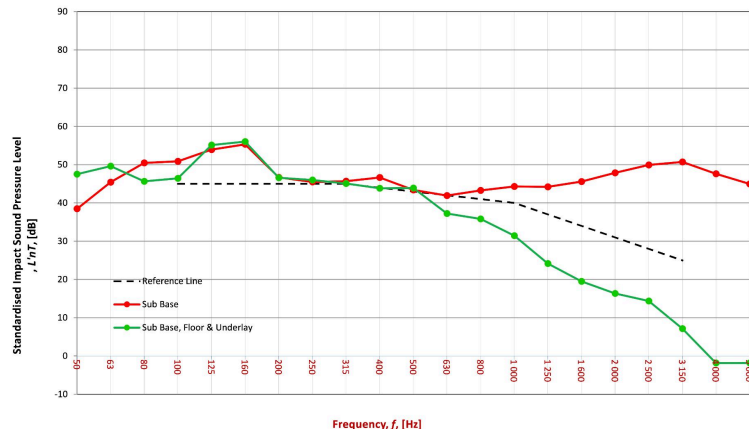
| Description                          | Thickness (mm) | Density (SI) |
|--------------------------------------|----------------|--------------|
| 14 mm engineered flooring            | 14             | --           |
| 3 mm EverQuiet Rubber EQ312 underlay | 3              | --           |
| Floor Concrete slab                  | 180-200        | --           |
| System Suspended ceiling             | 80-150         | --           |

Room Width: 5 m  
 Floor Length: 8 m  
 Dimensions Area: 40.00 m<sup>2</sup>

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

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

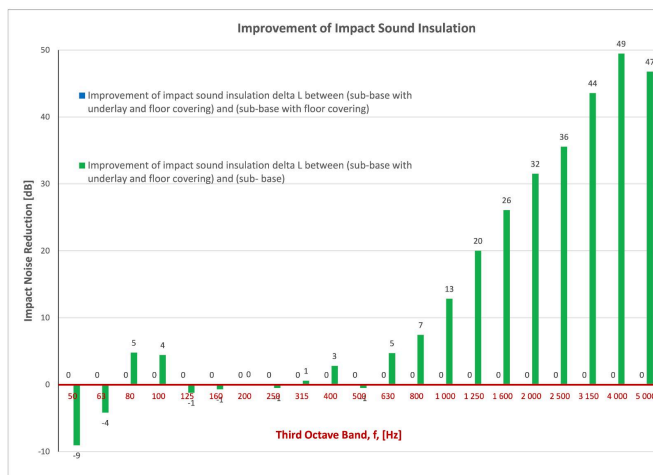
| Frequency f Hz | L'nT (one-third octave) dB |                |                         |
|----------------|----------------------------|----------------|-------------------------|
|                | Sub Base                   | Sub Base Floor | Sub Base Floor Underlay |
| 50             | 38.5                       | N/A            | 47.5                    |
| 63             | 45.4                       | N/A            | 49.6                    |
| 80             | 50.4                       | N/A            | 45.7                    |
| 100            | 50.9                       | N/A            | 46.4                    |
| 125            | 53.9                       | N/A            | 55.1                    |
| 160            | 55.3                       | N/A            | 56.0                    |
| 200            | 46.7                       | N/A            | 46.6                    |
| 250            | 45.5                       | N/A            | 46.0                    |
| 315            | 45.7                       | N/A            | 45.1                    |
| 400            | 46.6                       | N/A            | 43.8                    |
| 500            | 43.4                       | N/A            | 43.9                    |
| 630            | 41.9                       | N/A            | 37.2                    |
| 800            | 43.3                       | N/A            | 35.8                    |
| 1000           | 44.3                       | N/A            | 31.5                    |
| 1250           | 44.2                       | N/A            | 24.2                    |
| 1600           | 45.6                       | N/A            | 19.5                    |
| 2000           | 47.9                       | N/A            | 16.3                    |
| 2500           | 49.9                       | N/A            | 14.4                    |
| 3150           | 50.7                       | N/A            | 7.1                     |
| 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)                | 3      | 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<sup>2</sup> 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 Aus Timber 14/3mm + EQ512 5mm Rubber Underlay)

| System Tested  | $L'_{nTw}$ <sup>3</sup> | FIIC <sup>4, 5</sup> | AAAC <sup>6</sup> |
|--|-------------------------|----------------------|-------------------|
| Bare Concrete Floor (ECFS only) - for comparison purposes only                       | 55                      | 49                   | 3                 |
| Royal Aus Timber 14/3mm + EQW512 5mm Rubber Wavy Underlay +EQ512 5mm Rubber Underlay | 44                      | 62                   | 5                 |

## FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS



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:

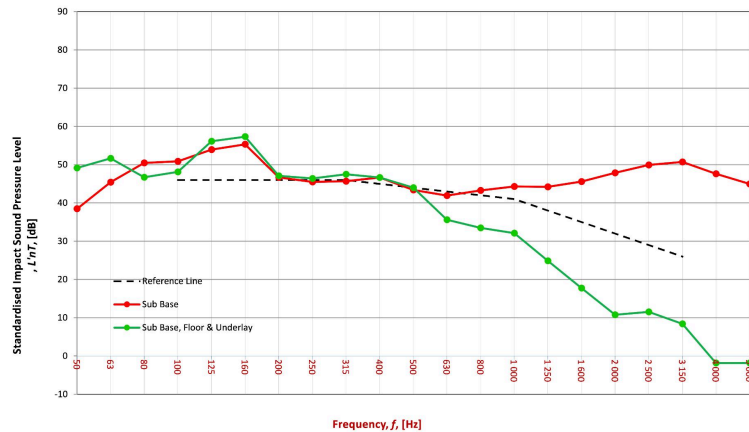
| Description                          | Thickness (mm) | Density (S) |
|--------------------------------------|----------------|-------------|
| 14 mm engineered flooring            | 14             | --          |
| 5 mm EverQuiet Rubber EQ512 underlay | 5              | --          |
| Concrete slab                        | 180-200        | --          |
| Suspended ceiling                    | 80-150         | --          |

Room Width: 5 m  
 Floor Length: 8 m  
 Dimensions Area: 40.00 m<sup>2</sup>

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

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

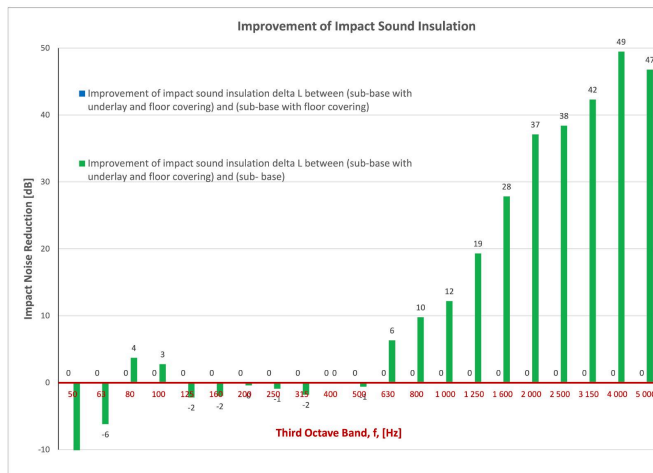
| Frequency f Hz | L'nT (one-third octave) dB |                |                         |
|----------------|----------------------------|----------------|-------------------------|
|                | Sub Base                   | Sub Base Floor | Sub Base Floor Underlay |
| 50             | 38.5                       | N/A            | 49.2                    |
| 63             | 45.4                       | N/A            | 51.6                    |
| 80             | 50.4                       | N/A            | 46.7                    |
| 100            | 50.9                       | N/A            | 48.1                    |
| 125            | 53.9                       | N/A            | 56.1                    |
| 160            | 55.3                       | N/A            | 57.3                    |
| 200            | 46.7                       | N/A            | 47.1                    |
| 250            | 45.5                       | N/A            | 46.4                    |
| 315            | 45.7                       | N/A            | 47.5                    |
| 400            | 46.6                       | N/A            | 46.6                    |
| 500            | 43.4                       | N/A            | 44.0                    |
| 630            | 41.9                       | N/A            | 35.6                    |
| 800            | 43.3                       | N/A            | 33.5                    |
| 1000           | 44.3                       | N/A            | 32.1                    |
| 1250           | 44.2                       | N/A            | 24.9                    |
| 1600           | 45.6                       | N/A            | 17.7                    |
| 2000           | 47.9                       | N/A            | 10.8                    |
| 2500           | 49.9                       | N/A            | 11.5                    |
| 3150           | 50.7                       | N/A            | 8.4                     |
| 4000           | 47.6                       | N/A            | -1.9                    |
| 5000           | 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             | N/A |
| 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:** 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<sup>2</sup> 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 Aus Timber 14/3mm + EQ515 5mm Rubber Underlay)

| System Tested   | $L'_{nTw}$ <sup>3</sup> | FIIC <sup>4, 5</sup> | AAAC <sup>6</sup> |
|---|-------------------------|----------------------|-------------------|
| Bare Concrete Floor (ECFS only) - for comparison purposes only                        | 55                      | 49                   | 3                 |
| Royal Aus Timber 14/3mm + EQW512 5mm Rubber Wavy Underlay + EQ515 5mm Rubber Underlay | 43                      | 63                   | 5                 |

## FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS



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: -

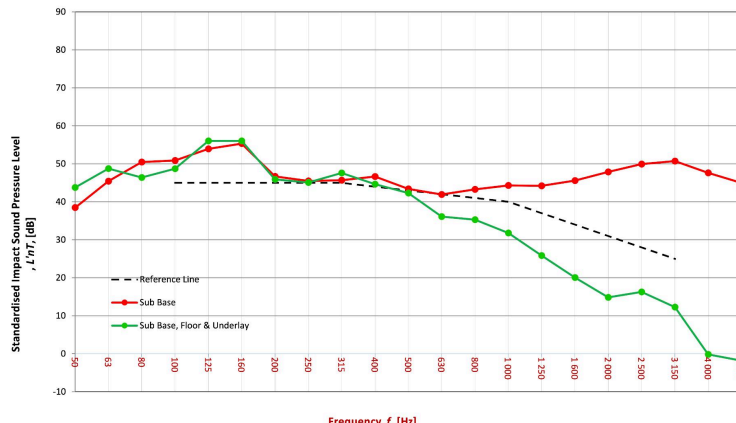
| Description of Floor System          | Name | Thickness (mm) | Density (SI) |
|--------------------------------------|------|----------------|--------------|
| 14 mm engineered flooring            |      | 14             | --           |
| 5 mm EverQuiet Rubber EQ515 underlay |      | 5              | --           |
| Concrete slab                        |      | 180-200        | --           |
| Suspended ceiling                    |      | 80-150         | --           |

Room Dimensions: Width: 5 m, Length: 8 m, Area: 40.00 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 | Walls        | Room Surfaces | Ceiling      |
|-----------------------------|----------|-------|--------|-------|--------|--------|--------------|---------------|--------------|
| en/Dining/Living directly l |          | 5     | 8      | 40.00 | 2.7    | 108.00 | Plasterboard | Floor: Timber | Plasterboard |

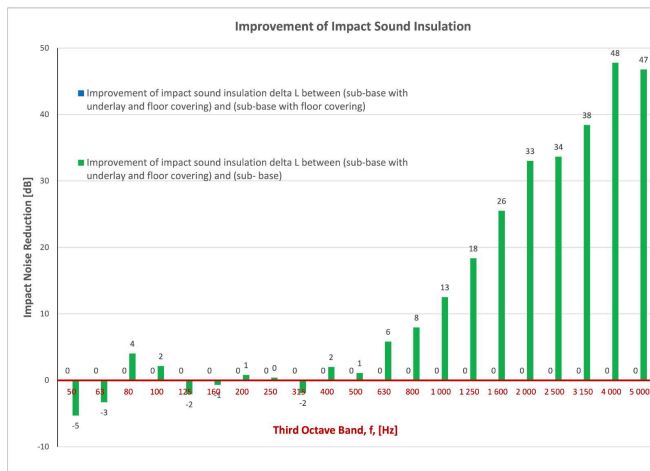
| Frequency f [Hz] | L'nT (one-third octave) dB |                |                         |
|------------------|----------------------------|----------------|-------------------------|
|                  | Sub Base                   | Sub Base Floor | Sub Base Floor Underlay |
| 50               | 38.5                       | N/A            | 43.8                    |
| 63               | 45.4                       | N/A            | 48.8                    |
| 80               | 50.4                       | N/A            | 48.4                    |
| 100              | 50.9                       | N/A            | 48.7                    |
| 125              | 53.9                       | N/A            | 56.0                    |
| 160              | 55.3                       | N/A            | 56.0                    |
| 200              | 46.7                       | N/A            | 45.9                    |
| 250              | 45.5                       | N/A            | 45.1                    |
| 315              | 45.7                       | N/A            | 47.6                    |
| 400              | 46.6                       | N/A            | 44.6                    |
| 500              | 43.4                       | N/A            | 42.3                    |
| 630              | 41.9                       | N/A            | 36.1                    |
| 800              | 43.3                       | N/A            | 35.3                    |
| 1000             | 44.3                       | N/A            | 31.8                    |
| 1250             | 44.2                       | N/A            | 25.8                    |
| 1600             | 45.6                       | N/A            | 20.1                    |
| 2000             | 47.9                       | N/A            | 14.8                    |
| 2500             | 49.9                       | N/A            | 16.3                    |
| 3150             | 50.7                       | N/A            | 12.3                    |
| 4000             | 47.6                       | N/A            | -0.2                    |
| 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)                | 3 AS ISO 717.2 - 2004  |
| CI(63-2000)                | 3 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<sup>2</sup> 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 Aus Timber 14/3mm + EQ1012 10mm Rubber Underlay)

| System Tested   | $L'_{nTw}$ <sup>3</sup> | FIIC <sup>4, 5</sup> | AAAC <sup>6</sup> |
|---|-------------------------|----------------------|-------------------|
| Bare Concrete Floor (ECFS only) - for comparison purposes only                          | 55                      | 49                   | 3                 |
| Royal Aus Timber 14/3mm + EQW512 5mm Rubber Wavy Underlay + EQ1012 10mm Rubber Underlay | 44                      | 63                   | 5                 |

## FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS



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: -

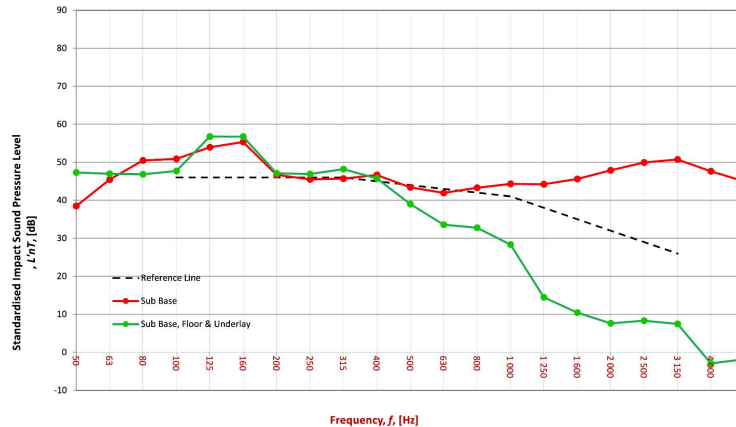
| Description of Floor System            | Name | Thickness (mm) | Density (SI) |
|--|------|----------------|--------------|
| 14 mm engineered flooring              |      | 14             | --           |
| 10 mm EverQuiet Rubber EQ1012 underlay |      | 10             | --           |
| Concrete slab                          |      | 180-200        | --           |
| Suspended ceiling                      |      | 80-150         | --           |

| Room Dimensions   | Width | Length | Area                 |
|-------------------|-------|--------|----------------------|
| Room              | 5 m   | 8 m    | 40.00 m <sup>2</sup> |
| Sample Dimensions | Width | Length | Area                 |
|                   | 1 m   | 1 m    | 1 m <sup>2</sup>     |

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

| Room Surfaces |        |              |
|---------------|--------|--------------|
| Walls         | Floor  | Ceiling      |
| Plasterboard  | Timber | Plasterboard |

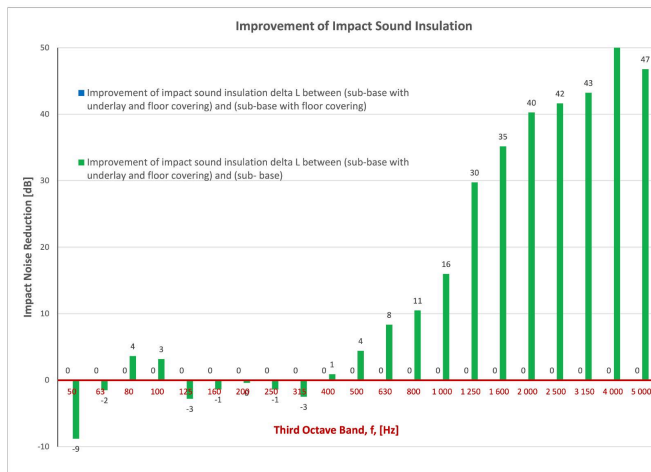
| Frequency f Hz | L'nT (one-third octave) dB |                |                         |
|----------------|----------------------------|----------------|-------------------------|
|                | Sub Base                   | Sub Base Floor | Sub Base Floor Underlay |
| 50             | 38.5                       | N/A            | 47.3                    |
| 63             | 45.4                       | N/A            | 47.0                    |
| 80             | 50.4                       | N/A            | 46.8                    |
| 100            | 50.9                       | N/A            | 47.7                    |
| 125            | 53.9                       | N/A            | 56.7                    |
| 160            | 55.3                       | N/A            | 56.7                    |
| 200            | 46.7                       | N/A            | 47.1                    |
| 250            | 45.5                       | N/A            | 46.9                    |
| 315            | 45.7                       | N/A            | 48.2                    |
| 400            | 46.6                       | N/A            | 45.7                    |
| 500            | 43.4                       | N/A            | 39.0                    |
| 630            | 41.9                       | N/A            | 33.6                    |
| 800            | 43.3                       | N/A            | 32.8                    |
| 1 000          | 44.3                       | N/A            | 28.3                    |
| 1 250          | 44.2                       | N/A            | 14.4                    |
| 1 600          | 45.6                       | N/A            | 10.4                    |
| 2 000          | 47.9                       | N/A            | 7.6                     |
| 2 500          | 49.9                       | N/A            | 8.3                     |
| 3 150          | 50.7                       | N/A            | 7.5                     |
| 4 000          | 47.6                       | N/A            | -2.9                    |
| 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★            | N/A |
| FIIC             | N/A |

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



**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<sup>2</sup> 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 Aus Timber 14/3mm + EQW512 5mm Rubber Wavy Underlay)

| System Tested  | $L'_{nTw}$ <sup>3</sup> | FIIC <sup>4, 5</sup> | AAAC <sup>6</sup> |
|--|-------------------------|----------------------|-------------------|
| Bare Concrete Floor (ECFS only) - for comparison purposes only | 55                      | 49                   | 3                 |
| Royal Aus Timber 14/3mm + EQW512 5mm Rubber Wavy Underlay      | 42                      | 64                   | 5                 |

## FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS



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                                | Thickness (mm) | Density (S) |
|--|----------------|-------------|
| 14 mm engineered flooring                  | 14             | --          |
| 5 mm EverQuiet Rubber Wavy EQW512 underlay | 5              | --          |
| Concrete slab                              | 180-200        | --          |
| Suspended ceiling                          | 80-150         | --          |

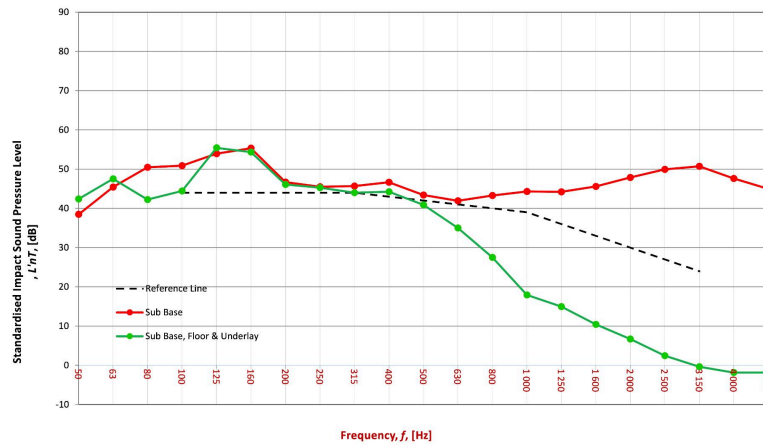
Room Width : 5 m  
 Floor Length : 8 m  
 Dimensions Area : 40.00 m<sup>2</sup>

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

| Receiver Rm | Location                       | Width | Length | Area  | Height | Volume |
|-------------|--------------------------------|-------|--------|-------|--------|--------|
| 5           | Bedroom/Dining/Living directly | 5     | 8      | 40.00 | 2.7    | 108.00 |

| Room Surfaces |        |              |
|---------------|--------|--------------|
| Walls         | Floor  | Ceiling      |
| Plasterboard  | Timber | Plasterboard |

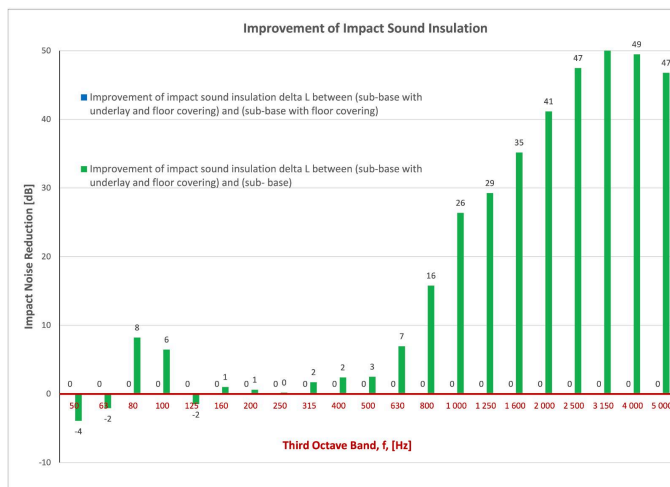
| Frequency f Hz | L'nT (one-third octave) dB |                |                         |
|----------------|----------------------------|----------------|-------------------------|
|                | Sub Base                   | Sub Base Floor | Sub Base Floor Underlay |
| 50             | 38.5                       | N/A            | 42.4                    |
| 63             | 45.4                       | N/A            | 47.5                    |
| 80             | 50.4                       | N/A            | 42.2                    |
| 100            | 50.9                       | N/A            | 44.4                    |
| 125            | 53.9                       | N/A            | 55.4                    |
| 160            | 55.3                       | N/A            | 54.3                    |
| 200            | 46.7                       | N/A            | 46.1                    |
| 250            | 45.5                       | N/A            | 45.3                    |
| 315            | 45.7                       | N/A            | 44.0                    |
| 400            | 46.6                       | N/A            | 44.2                    |
| 500            | 43.4                       | N/A            | 40.9                    |
| 630            | 41.9                       | N/A            | 35.0                    |
| 800            | 43.3                       | N/A            | 27.5                    |
| 1000           | 44.3                       | N/A            | 17.9                    |
| 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)                | 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<sup>2</sup> 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 joint 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 Aus Timber 14/3mm + EQW512 5mm Rubber Wavy Underlay + 2mm EVERQUIET IXPE Underlay)

| System Tested  | L' nTw <sup>3</sup> | FIC <sup>4,5</sup> | AAAC <sup>6</sup> |
|--|---------------------|--------------------|-------------------|
| Bare Concrete Floor (ECFS only) - for comparison purposes only                 | 55                  | 49                 | 3                 |
| Royal Aus Timber 14/3mm + EQW512 5mm Rubber Wavy Underlay + 2mm EVERQUIET IXPE | 43                  | 63                 | 5                 |

## FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS



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 : -

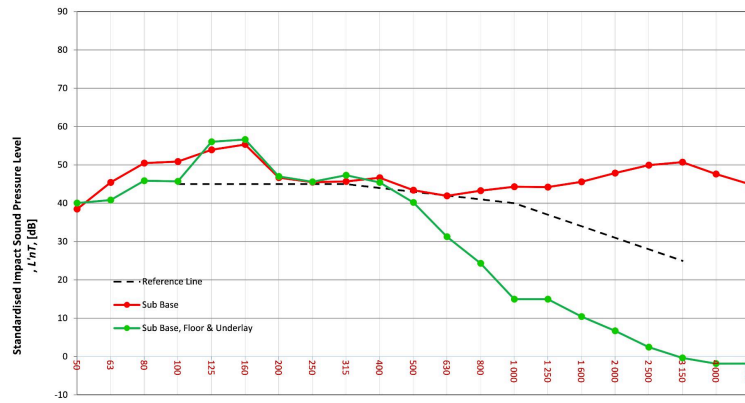
| Description   | Name              | Thickness (mm) | Density (SI) |
|---|-------------------|----------------|--------------|
| 14 mm engineered flooring                               |                   | 14             | --           |
| 5 mm EverQuiet Rubber Wavy EQW512 + 2 mm EverQuiet IXPE |                   | 7              | --           |
| Floor   | Concrete slab     | 180-200        | --           |
| System  | Suspended ceiling | 80-150         | --           |

| Room Dimensions | Width | Length | Area                 |
|-----------------|-------|--------|----------------------|
|                 | 5 m   | 8 m    | 40.00 m <sup>2</sup> |

| 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 |

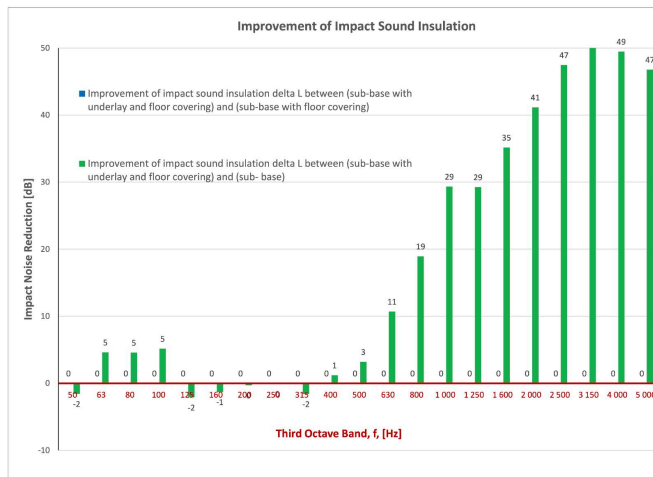
| Frequency f Hz | L'nT (one-third octave) dB |                |                         |
|----------------|----------------------------|----------------|-------------------------|
|                | Sub Base                   | Sub Base Floor | Sub Base Floor Underlay |
| 50             | 38.5                       | N/A            | 40.1                    |
| 63             | 45.4                       | N/A            | 40.8                    |
| 80             | 50.4                       | N/A            | 45.9                    |
| 100            | 50.9                       | N/A            | 45.7                    |
| 125            | 53.9                       | N/A            | 56.0                    |
| 160            | 55.3                       | N/A            | 56.6                    |
| 200            | 46.7                       | N/A            | 47.0                    |
| 250            | 45.5                       | N/A            | 45.6                    |
| 315            | 45.7                       | N/A            | 47.3                    |
| 400            | 46.6                       | N/A            | 45.4                    |
| 500            | 43.4                       | N/A            | 40.2                    |
| 630            | 41.9                       | N/A            | 31.2                    |
| 800            | 43.3                       | N/A            | 24.3                    |
| 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  |
| FIC         | 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      |
| FIC              | 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)                | 3 AS ISO 717.2 - 2004  |
| Ci(63-2000)                | 3 AS ISO 717.2 - 2004  |
| AAAC★                      | 5 Star AAAC Guideline  |
| FIC                        | 63 ASTM E1007-14       |



### Definitions of Noise Metrics

**FIC:** 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<sup>2</sup> 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                 |
| FIC          | 45           | 55              | 60      | 65               | 70                 |
| Comments     | Below BCA E2 | 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 Aus Timber 14/3mm + EQW1012 10mm Rubber Wavy Underlay)

| System Tested  | $L'_{nTw}$ <sup>3</sup> | FIIC <sup>4, 5</sup> | AAAC <sup>6</sup> |
|--|-------------------------|----------------------|-------------------|
| Bare Concrete Floor (ECFS only) - for comparison purposes only | 55                      | 49                   | 3                 |
| Royal Aus Timber 14/3mm + EQW1012 10mm Rubber Wavy Underlay    | 43                      | 63                   | 5                 |

## FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS



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                                  | Name | Thickness (mm) | Density (S) |
|--|------|----------------|-------------|
| 14 mm engineered flooring                    |      | 14             | --          |
| 10 mm EverQuiet Rubber Wavy EQW1012 underlay |      | 10             | --          |
| Concrete slab                                |      | 180-200        | --          |
| Suspended ceiling                            |      | 80-150         | --          |

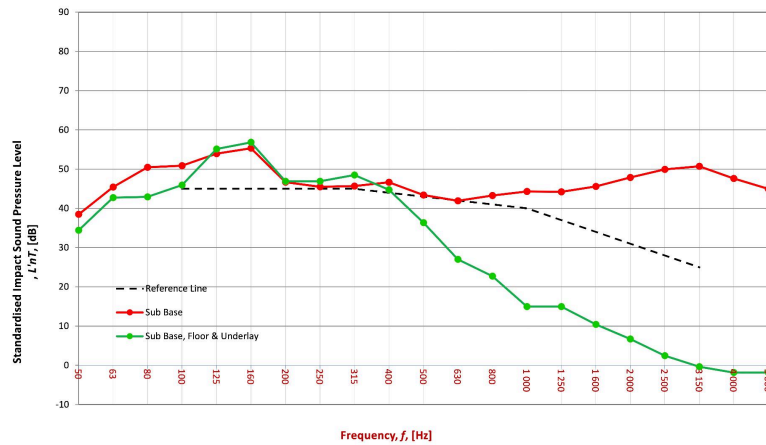
Room Width : 5 m  
 Floor Length : 8 m  
 Dimensions Area : 40.00 m<sup>2</sup>

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

| 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 |

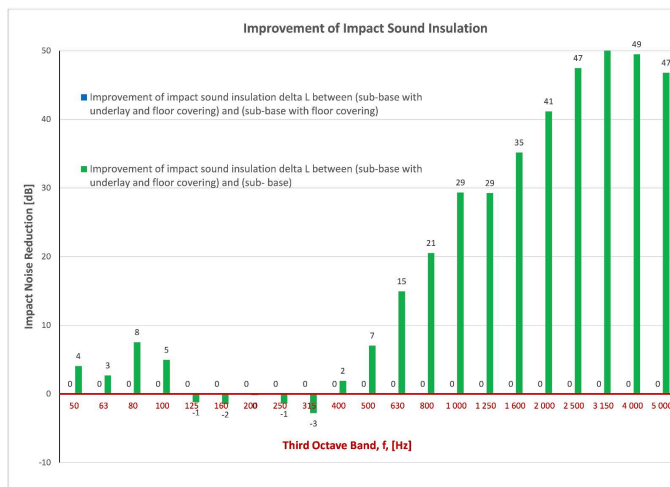
| Frequency f Hz | L'nT (one-third octave) dB |                |                         |
|----------------|----------------------------|----------------|-------------------------|
|                | Sub Base                   | Sub Base Floor | Sub Base Floor Underlay |
| 50             | 38.5                       | N/A            | 34.4                    |
| 63             | 45.4                       | N/A            | 42.7                    |
| 80             | 50.4                       | N/A            | 42.9                    |
| 100            | 50.9                       | N/A            | 45.9                    |
| 125            | 53.9                       | N/A            | 55.1                    |
| 160            | 55.3                       | N/A            | 56.8                    |
| 200            | 46.7                       | N/A            | 46.9                    |
| 250            | 45.5                       | N/A            | 46.9                    |
| 315            | 45.7                       | N/A            | 48.5                    |
| 400            | 46.6                       | N/A            | 44.7                    |
| 500            | 43.4                       | N/A            | 36.4                    |
| 630            | 41.9                       | N/A            | 27.0                    |
| 800            | 43.3                       | N/A            | 22.7                    |
| 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                     | 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                       | 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<sup>2</sup> 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/joint 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 Aus Timber 14/3mm + MS Adhesive (V Notch) )

|   |                         |                      |                   |
|---|-------------------------|----------------------|-------------------|
| <b>System Tested</b>  | $L'_{nTw}$ <sup>3</sup> | FIIC <sup>4, 5</sup> | AAAC <sup>6</sup> |
| <b>Bare Concrete Floor (ECFS only) - for comparison purposes only</b> | 54                      | 50                   | 3                 |
| <b>Royal Aus Timber 14/3mm + MS Adhesive (V Notch)</b>                | 42                      | 68                   | 5                 |

### FIELD MEASUREMENTS OF IMPACT SOUND INSULATION OF FLOORS



Date of Test : Thursday, 11 December 2025  
 Project No. : 3523  
 Testing Company : Koikas Acoustics  
 Checked by : James Tsevrementzis  
 Place of Test : Residential Unit in Forest Lodge (Living/Dining)  
 Client : Everfloor  
 Client Address : -

| Description of Floor System    | Name | Thickness (mm) | Density (S) |
|--------------------------------|------|----------------|-------------|
| Engineered Timber              |      | 14             | --          |
| FLOOR+ MS Adhesive (V-Notch)   |      | 6              | --          |
| Concrete Sub Base              |      | --             | --          |
| Suspended Plasterboard Ceiling |      | --             | --          |

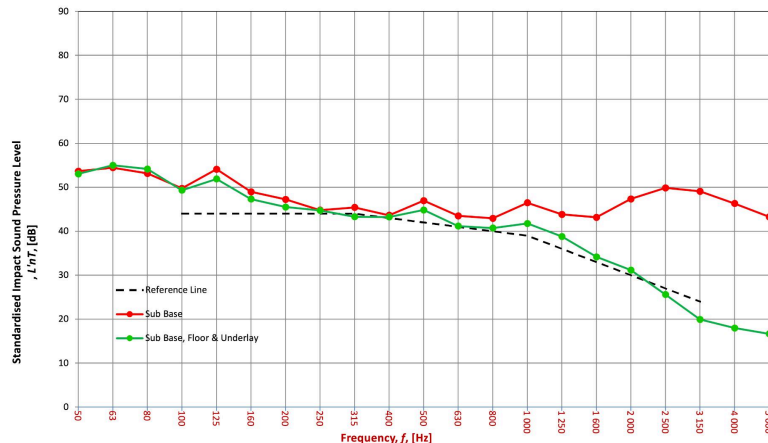
Room Width : 4.4 m  
 Floor Length : 8.2 m  
 Dimensions Area : 36.08 m<sup>2</sup>

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

| Receiver Rm                | Location | Width | Length | Area  | Height | Volume |
|----------------------------|----------|-------|--------|-------|--------|--------|
| Unit below (Living/Dining) |          | 4.4   | 8.2    | 36.08 | 2.7    | 97.42  |

| Room Surfaces |        |              |
|---------------|--------|--------------|
| Walls         | Floor  | Ceiling      |
| Plasterboard  | Carpet | Plasterboard |

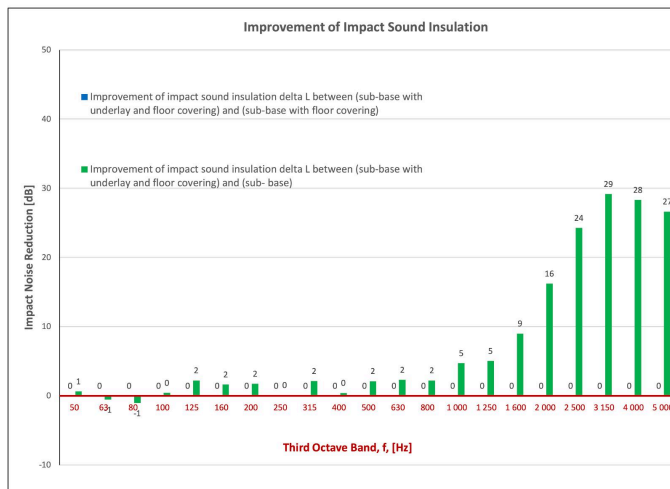
| Frequency f Hz | L'NT (one-third octave) dB |                |                         |
|----------------|----------------------------|----------------|-------------------------|
|                | Sub Base                   | Sub Base Floor | Sub Base Floor Underlay |
| 50             | 53.7                       | NA             | 53.0                    |
| 63             | 54.5                       | NA             | 55.0                    |
| 80             | 53.1                       | NA             | 54.2                    |
| 100            | 49.7                       | NA             | 49.3                    |
| 125            | 54.1                       | NA             | 51.9                    |
| 160            | 49.0                       | NA             | 47.3                    |
| 200            | 47.2                       | NA             | 45.5                    |
| 250            | 44.8                       | NA             | 44.7                    |
| 315            | 45.4                       | NA             | 43.3                    |
| 400            | 43.6                       | NA             | 43.2                    |
| 500            | 46.9                       | NA             | 44.8                    |
| 630            | 43.5                       | NA             | 41.2                    |
| 800            | 42.9                       | NA             | 40.7                    |
| 1 000          | 46.5                       | NA             | 41.8                    |
| 1 250          | 43.8                       | NA             | 38.8                    |
| 1 600          | 43.2                       | NA             | 34.2                    |
| 2 000          | 47.4                       | NA             | 31.2                    |
| 2 500          | 49.9                       | NA             | 25.6                    |
| 3 150          | 49.1                       | NA             | 19.9                    |
| 4 000          | 46.3                       | NA             | 18.0                    |
| 5 000          | 43.3                       | NA             | 16.7                    |



| Sub Base    |        |
|-------------|--------|
| L'nT,w      | 54     |
| Ci          | -9     |
| Ci(50-2500) | -7     |
| Ci(63-2000) | -8     |
| AAAC★       | 3 Star |
| FIIC        | 50     |

| Sub Base & Floor |    |
|------------------|----|
| L'nT,w           | NA |
| Ci               | NA |
| Ci(50-2500)      | NA |
| Ci(63-2000)      | NA |
| AAAC★            | NA |
| FIIC             | NA |

| Sub Base, Floor & Underlay |        |
|----------------------------|--------|
| L'nT,w                     | 42     |
| Ci                         | 0      |
| Ci(50-2500)                | 4      |
| Ci(63-2000)                | 3      |
| AAAC★                      | 5 Star |
| FIIC                       | 68     |



#### 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<sup>2</sup> 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 Audible | 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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