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Sound Advice in a World Full of Noise

May 8, 2026

Irene Ferrante
100 Ward Street, Unit 606
Seattle, WA 98109

**Re: Continental House #606 AIIC Testing (#P26035)**

Dear Irene:

Acoustical testing was conducted on Thursday, May 7, 2026 at the Continental House Condominiums to determine performance of mockup hard surface flooring area.

An acoustical test report is attached with the results summarized in the following table.

**Table 1. Acoustical Test Results Summary**

| Report Number | Source Room | Receiver Room | Mockup Flooring Configuration | Field AIIC |
|---|---|---|---|---|
| 26035-01 | #606 Living | #506 Living / Dining/ Kitchen | 5/8" Oak Engineered Wood on 0.070" Eclipse II | 51 |

Please let us know if you have any questions on the information contained in the attached reports.

Best Regards,

Jeanette Hesedahl, P.E., INCE Bd. Cert.
Senior Project Manager
CENSEO AV+Acoustics LLC
*A Member Firm of NCAC and AVIXA*

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# APPARENT IMPACT INSULATION CLASS (AIIC) TEST REPORT

| | |
|---|---|
| Conducted for: | Irene Ferrante |
| CENSEO Test #: | 26035-01 |
| Test Date: | May 7, 2026 |
| Report Date: | May 8, 2026 |
| Test Location: | Continental House Condominiums |
| Test Description: | Floor/Ceiling Assembly between Unit 606 and Unit 506 |

Test Conducted By:

Jeanette Hesedahl, PE, INCE Bd. Cert.

**Test Result: AIIC 51**
**(See Attached Graph)**

NOTE: The amount of flanking was not completely determined, so the AIIC value should be considered a minimum value.

## Test Procedure

A standard tapping machine was used as the impact sound source and was located on a mock-up flooring area approximately 5' x 5' in size. At each tapping machine position, one-third octave band sound pressure levels were measured in the receiving room. One (1) 60 second measurement was taken for each tapping machine position. Each noise measurement consisted of sweeping the microphone throughout the room. Flanking transmission was not evaluated. Doors and windows were closed during the testing period. Equipment used to conduct the test is summarized below in Table 1.

**Table 1: Test Equipment Summary**

| Equipment Type | Manufacturer | Model No. | Serial No. |
|---|---|---|---|
| Sound Level Meter | Larson Davis | 831 | 2661 |
| Pre-Amplifier | PCB Piezotronics | PRM831 | 019132 |
| Microphone | PCB Piezotronics | 377C20 | 332415 |
| Calibrator | Larson Davis | CAL200 | 16264 |
| Amplified Loudspeaker | QSC | K8.2 | N/A |
| Signal Generator | NTI Audio | MR-PRO | N/A |
| Tapping Machine | Look Line | EM50 | F1.090126 |

## Test Standards & Conformance to Standards

- ASTM Designation E 1007-25: *Standard Test Method for Field Measurement of Tapping Machine Impact Sound Transmission Through Floor/Ceiling Assemblies and Associated Support Structure.*
- ASTM Designation E 2235-04 (2020): *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods*
- ASTM Designation E989-21: *Standard Classification for Determination of Single-Number Metrics for Impact Noise*

**Table 2: Test Conformance Checks**

The testing described, the results calculated, and this report fully comply with the requirements of ASTM E1007-25, with the following exceptions:

| ASTM E 1007-25 | Conformance Check | Response |
|---|---|---|
| ¶ 11.8 | Receiver room signal level > 5dB above the receiver room background noise level? | Confirmed |
| ¶ 10.4.4 | Receiver room volume met minimum required? | Confirmed |
| ¶ 10.4.5 | Receiver room absorption met preferred calculated value? | Confirmed |

The results stated in this report represent only the specific construction and acoustical conditions present at the time of the test. Measurements performed in accordance with this standard on nominally identical constructions and acoustical conditions may produce different results.

## Test Environment & Test Assembly

| Table 3: SOURCE Room Description | |
|---|---|
| **Location:** | Unit 606 Living Room |
| **Finishes (Walls & Ceilings):** | Painted gypsum board, doors, window |
| **Finishes (Floor):** | Exposed concrete subfloor, mockup area of Eclipse II acoustical underlayment + 5/8”-thick oak engineered wood flooring |
| **Furnishings:** | Unfurnished |

| Table 4: RECEIVER Room Description | |
|---|---|
| **Location:** | Unit 506 Living / Dining / Kitchen |
| **Finishes (Walls & Ceilings):** | Gypsum board, doors, lighting, window |
| **Finishes (Floor):** | Wood flooring |
| **Furnishings:** | Upholstered furniture, dining table & chairs, wood cabinets |

| Table 5: Test Area and Dimensions | |
|---|---|
| **Test Partition Size:** | Approximately 5’ x 5’ mock-up flooring area |
| **Receiver Room Size:** | 440 sq. ft. |
| **Receiver Room Ceiling Height:** | 7’-7” |
| **Receiver Room Volume:** | 3,113 cu. ft. |
| Notes: | 1. Cabinet volumes deducted from receiver room volume<br>2. Corridor beyond kitchen area excluded from receiver room measurements |

| Table 6: Test Assembly Description | |
|---|---|
| **Element #** | **Description (starting with top layer)** |
| 1 | Oak Engineered Wood (5/8”-thick) |
| 2 | Eclipse II Acoustical Underlayment, closed cell foam (0.070”-thick) |
| 3 | Concrete Structural Floor (thickness unknown) |
| 4 | Suspended Gypsum Board Ceiling (thickness and construction unknown) |

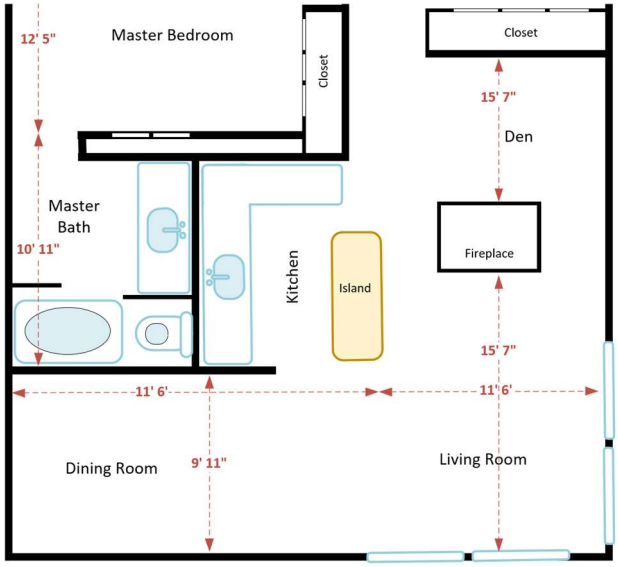


**Figure 1:**
Test Partition – Source Room Floor Plan

**Figure 2:**
Source Room Test Environment

**Figure 3:**
Receiver Room Test Environment

# TEST RESULTS

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| | |
|---|---|
| Project Name: | Continental House #606 |
| Source Room: | 606 Living |
| Receiver Room: | 506 Living/Dining/Kit |
| Test Partition: | Floor/Ceiling Assembly |
| Test Date: | May 7, 2026 |
| Test Number: | 26035-01 |

**AIIC Rating: 51**

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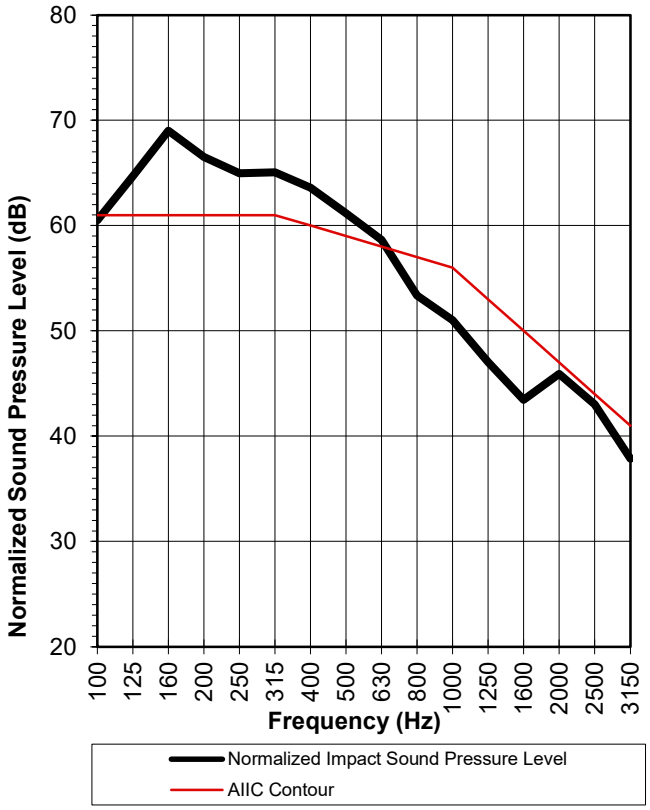


Where:
AIIC = Apparent Impact Insulation Class

| 1/3 Octave Band Center Frequency (Hz) | Normalized Impact Sound Pressure (dB) | Average Absorption (Sabines) | Notes (see below) |
|---|---|---|---|
| 100 | 60.5 | 397 | |
| 125 | 64.7 | 333 | |
| 160 | 69.0 | 275 | |
| 200 | 66.5 | 283 | |
| 250 | 65.0 | 348 | |
| 315 | 65.1 | 347 | |
| 400 | 63.6 | 341 | |
| 500 | 61.2 | 332 | |
| 630 | 58.6 | 361 | |
| 800 | 53.4 | 311 | |
| 1000 | 51.0 | 359 | |
| 1250 | 47.0 | 339 | |
| 1600 | 43.4 | 310 | |
| 2000 | 45.9 | 345 | |
| 2500 | 43.0 | 333 | |
| 3150 | 37.9 | 320 | |

Notes:

N/A

N/A

N/A