

Field Sound Transmission Test Report

Noise Isolation Class (NIC)

| | | | |
|---------------------|---------------------|-----------------------|-----------------|
| Report Date: | 2024-04-15 00:00:00 | Source Room: | 2nd Floor Bed 3 |
| Test Date: | 2024-04-04 00:00:00 | Receiver Room: | 1st Floor Bed 2 |
| DLAA Test No | 1.3.1 | Test Assembly: | Floor-ceiling |

STANDARDS:

| | |
|---------------------|--|
| ASTM E336-16 | Standard Test Method for Measurement of Airborne Sound Attenuation between Rooms in Buildings |
| ASTM E413-16 | Standard Classification for Rating Sound Insulation |
| ASTM E2235-04(2012) | Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods |

STATEMENT OF CONFORMANCE:

Testing was conducted in accordance with ASTM E336-20, ASTM E413-16, and ASTM E2235-04(2012), with exceptions noted below. All requirements for measuring and reporting Airborne Sound Attenuation between Rooms in Buildings (ATL) and Noise Isolation Class (NIC) were met.

TEST ENVIRONMENT:

The source room was 2nd Floor Bed 3. The space was finished, unfurnished. The floor was Carpet. The ceiling was gyp. The walls were gyp. All doors and windows were closed during the testing period. The source room had a volume of approximately 796 cu. ft.

The receiver room was 1st Floor Bed 2. The space was finished unfurnished. The floor was LVT. The ceiling was gyp. The walls were gyp. All doors and windows were closed during the testing period. The source room had a volume of approximately 1,413 cu. ft.

The test assembly measured approximately 9x9.8, and had an area of approximately 88.2 sq. ft.

TEST ASSEMBLY:

The tested assembly was the Floor-ceiling. The assembly was not field verified, and was based on information provided by the client and drawings for the project. The client advised that no slab treatment or self-leveling was applied. Results may vary if slab treatment or self-leveling or any adhesive is used in other installations.

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TEST PROCEDURE:

Determination of space-average sound pressure levels was performed via the manually scanned microphones technique, described in ASTM Test Procedure ASTM E336-16, Paragraph 11.4.3.3. The source room was selected in accordance with ASTM E336-11 Paragraph 9.2.5, which states that 'If a corridor must be used as one of the spaces for measurement of ATL or FTL, it shall be used as the source space.'

Flanking transmission was not evaluated.

To evaluate room absorption, 1 microphone was used to measure 4 decays at 4 locations around the receiving room for a total of 16 measurements, per AISC Test Procedure ASTM E1007-14

TEST INSTRUMENTATION:

| | | | | | |
|-----------------------|--------------|--------|-----------|------------|----------|
| Sound Level Meter | Larson Davis | 831 | 4328 | 10/24/2022 | 4/4/2024 |
| Microphone Pre-Amp | Larson Davis | PRM831 | 046469 | 10/24/2022 | 4/4/2024 |
| Microphone | Larson Davis | 377B20 | 168830 | 10/20/2022 | 4/4/2024 |
| Calibrator | Larson Davis | CAL200 | 5955 | 10/26/2022 | N/A |
| Amplified Loudspeaker | QSC | K10 | GAA530909 | N/A | N/A |
| Noise Generator | NTi Audio | MR-PRO | 0162 | N/A | N/A |

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Source Room: 2nd Floor Bed 3
Receiver Room: 1st Floor Bed 2
Test Assembly: Floor-ceiling

STATEMENT OF TEST RESULTS:

| Frequency (Hz) | Average PC | Average COR | Average R ₁ | Average R ₂ | Average R ₁₊₂ | Transmission, NR (dB) |
|----------------|------------|-------------|------------------------|------------------------|--------------------------|-----------------------|
| 125 | 96.0 | | 78.6 | 33.2 | 0.769 | 17.4 |
| 160 | 92.9 | | 67.9 | 35.2 | 0.574 | 25.0 |
| 200 | 88.8 | | 61.6 | 36.9 | 0.748 | 27.2 |
| 250 | 87.8 | | 60.2 | 30.5 | 1.441 | 27.6 |
| 315 | 88.4 | | 52.3 | 27.9 | 0.970 | 36.1 |
| 400 | 88.4 | | 50.3 | 23.0 | 1.075 | 38.1 |
| 500 | 84.2 | | 45.2 | 21.1 | 1.162 | 39.0 |
| 630 | 82.1 | | 44.6 | 20.7 | 1.057 | 37.5 |
| 800 | 84.2 | | 44.7 | 19.8 | 1.004 | 39.5 |
| 1000 | 82.2 | | 41.4 | 18.6 | 1.078 | 40.8 |
| 1250 | 82.8 | | 34.3 | 16.2 | 1.213 | 48.5 |
| 1600 | 80.1 | | 33.6 | 14.8 | 1.265 | 46.5 |
| 2000 | 78.6 | | 31.1 | 11.0 | 1.225 | 47.5 |
| 2500 | 81.0 | | 27.3 | 9.0 | 1.101 | 53.7 |
| 3150 | 82.5 | | 30.6 | 8.4 | 0.998 | 51.9 |

The Noise Isolation Class (NIC) of 40 was calculated. The NIC rating is based on Noise Reduction (NR), and includes the effects of noise flanking. The NIC reference contour is shown on the next page, and has been “fit” to the Noise Reduction values, in accordance with the procedure of ASTC Test Procedure ASTM E336-16
 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 test method on nominally identical constructions and acoustical conditions may produce different results.

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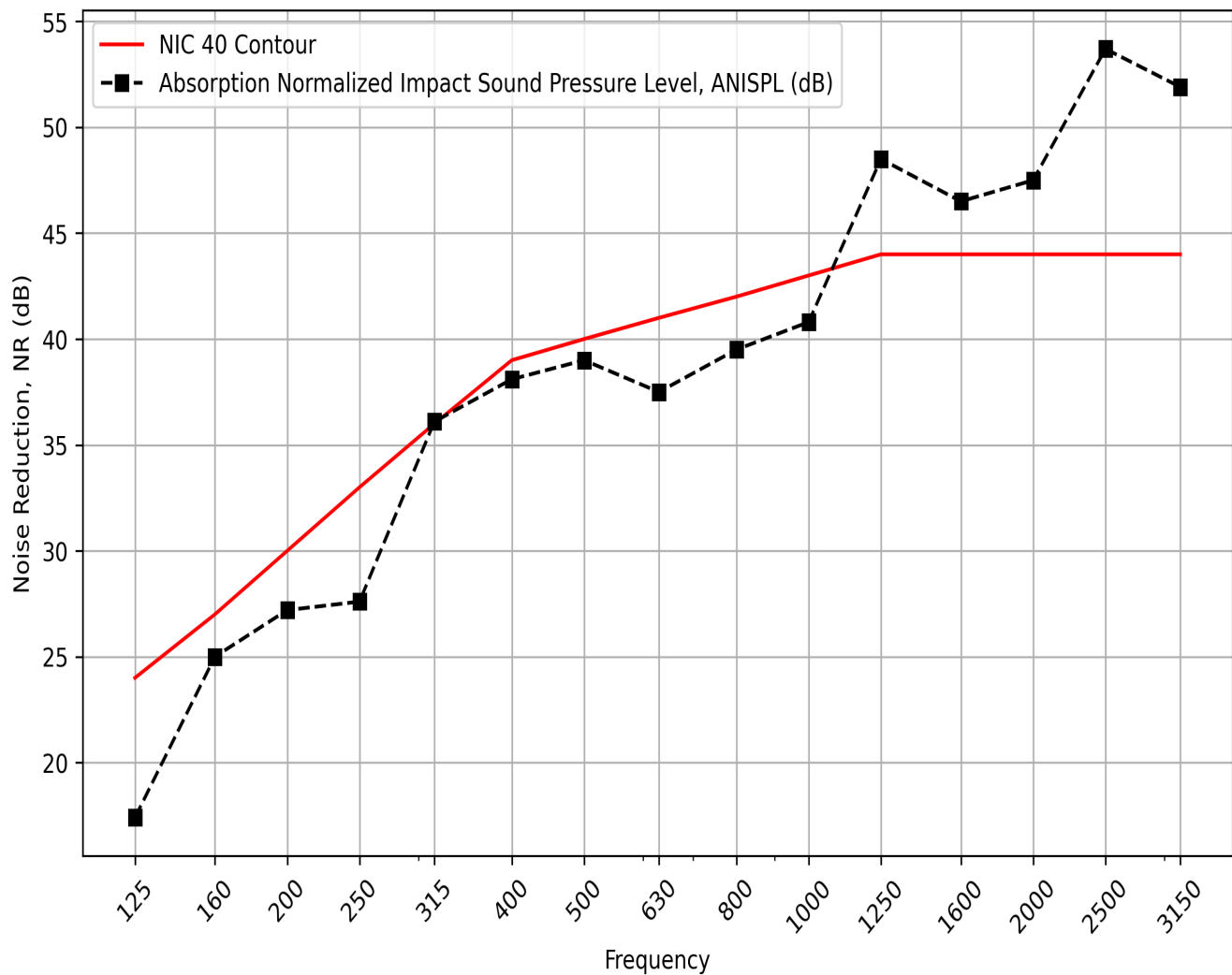
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test_engineer
test_engineer_signature
test_date