Noise Isolation Class (NIC)

Report Date: 2024-04-15 00:00:00 **Test Date:** 2024-04-04 00:00:00

DLAA Test No1.4.1Source Room:2nd Floor Bed 1Test SiteGentry aptsReceiver Room:1st Floor Bed 1ClientGentry BuildersTest 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 requrements for measuring abd 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 1. 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 1,176 cu. ft.

The receiver room was 1st Floor Bed 1. 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 12.3x10.6, and had an area of approximately 130.4 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 techique, described in ASTC 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 AIIC Test Procedure ASTM E1007-14

TEST INSTRUMENTATION:

| Equipment Type | Manufacturer | Model Number | Serial Number | Last NIST Traceable Calibration | Last Local Calibration |
|-----------------------|--------------|--------------|---------------|---------------------------------------|---------------------------|
| 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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STATEMENT OF TEST RESULTS:

| Frequency (Hz) | L1, Average Source Room Level (dB) | L2, Average Corrected Receiver Room Level (dB) | Average Receiver Backgrou nd Level (dB) | Noise Re duction, NR (dB) | |
|-------------------|---------------------------------------|--|---|---------------------------------|------|
| 100 | 100.3 | 74.2 | 36.2 | 0.726 | 26.1 |
| 125 | 97.3 | 78.2 | 39.7 | 0.663 | 19.1 |
| 160 | 93.8 | 71.5 | 38.6 | 0.573 | 22.3 |
| 200 | 93.2 | 69.3 | 34.0 | 0.864 | 23.9 |
| 250 | 88.3 | 58.2 | 38.4 | 1.590 | 30.1 |
| 315 | 89.8 | 55.3 | 34.2 | 1.169 | 34.5 |
| 400 | 89.6 | 51.9 | 25.8 | 1.316 | 37.7 |
| 500 | 89.4 | 52.4 | 23.5 | 1.474 | 37.0 |
| 630 | 84.5 | 46.5 | 23.8 | 1.338 | 38.0 |
| 800 | 83.6 | 41.1 | 21.1 | 1.216 | 42.5 |
| 1000 | 85.1 | 39.0 | 19.2 | 1.354 | 46.1 |
| 1250 | 83.0 | 37.3 | 19.3 | 1.504 | 45.7 |
| 1600 | 83.6 | 29.9 | 16.5 | 1.645 | 53.7 |
| 2000 | 81.0 | 27.1 | 14.7 | 1.571 | 53.9 |
| 2500 | 79.6 | 25.2 | 11.9 | 1.461 | 54.4 |
| 3150 | 82.2 | 23.7 | 10.2 | 1.258 | 58.5 |
| 4000 | 83.7 | 19.7 | 9.4 | 1.325 | 64.0 |

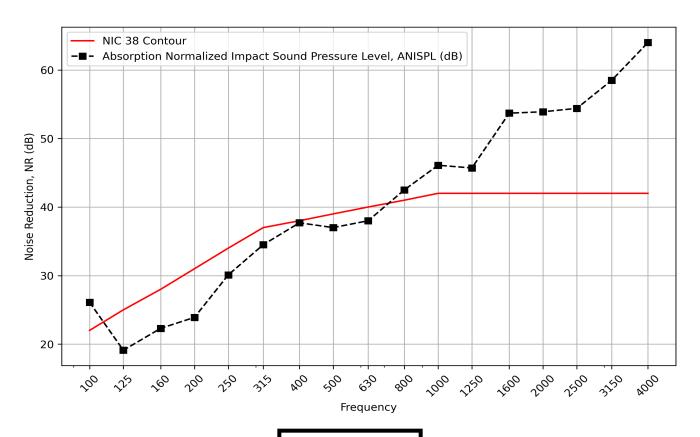
NIC: 38

The Noise Isolation Class (NIC) of 38 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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NIC: 38

test_engineer test_engineer_signature test_date