Field Sound Transmission Test Report

Noise Isolation Class (NIC)

Report Date:	2024-04-15 00:00:00		
Test Date:	2024-04-04 00:00:00		
DLAA Test No	1.3.1	**Source Room:**	2nd Floor Bed 3
Test Site	Gentry apts	**Receiver Room:**	1st Floor Bed 2
Client	Gentry Builders	**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 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 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.

808-254-3318x222
www.dlaa.com
Kailua, HI 96734
Suite A311
970 N. Kalaheo Ave

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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 Background Level (dB)	Noise Reduction, NR (dB)	
100	100.8	73.7	39.3	0.630	27.1
125	96.1	76.2	31.9	0.769	19.9
160	96.0	78.6	33.2	0.574	17.4
200	92.9	67.9	35.2	0.748	25.0
250	88.8	61.6	36.9	1.441	27.2
315	87.8	60.2	30.5	0.970	27.6
400	88.4	52.3	27.9	1.075	36.1
500	88.4	50.3	23.0	1.162	38.1
630	84.2	45.2	21.1	1.057	39.0
800	82.1	44.6	20.7	1.004	37.5
1000	84.2	44.7	19.8	1.078	39.5
1250	82.2	41.4	18.6	1.213	40.8
1600	82.8	34.3	16.2	1.265	48.5
2000	80.1	33.6	14.8	1.225	46.5
2500	78.6	31.1	11.0	1.101	47.5
3150	81.0	27.3	9.0	0.998	53.7
4000	82.5	30.6	8.4	1.051	51.9

NIC: 35

The Noise Isolation Class (NIC) of 35 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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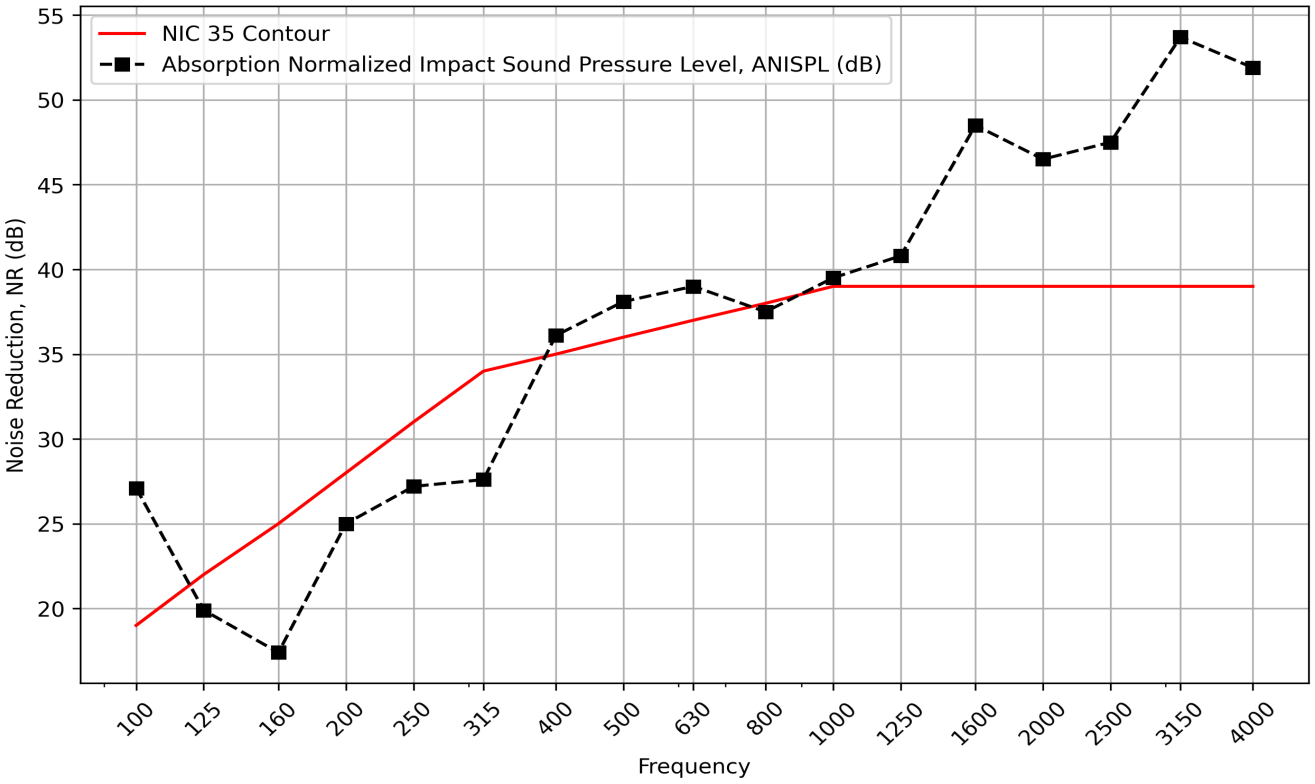

NIC: 35

test_engineer
test_engineer_signature
test_date

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