Field Sound Transmission Test Report

Apparent Sound Transmission Class (ASTC)

Report Date:	4/9/25		
Test Date:	4/7/25		
DLAA Test No	1.2.1	**Source Room:**	Unit 2a
Test Site	Kaanapali Shores	**Receiver Room:**	Unit 2b
Client	Kaanapali AOAO	**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 Apparent Sound Transmission Class (ASTC) were met.

TEST ENVIRONMENT:

The source room was Unit 2a. The space was Finished, furnished. The floor was Cork. 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 2382.8 cu. ft.

The receiver room was Unit 2b. The space was Finished, Furnished. The floor was Cork. 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 2382.8 cu. ft.

The test assembly measured approximately 15.2x13, and had an area of approximately 224.8 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
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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STATEMENT OF TEST RESULTS:

Frequency (Hz)	L1, Average Source Room Level (dB)	L2, Average Corrected Receiver Room Level (dB)	Average Receiver Background Level (dB)	Average RT60 (seconds)	Noise Reduction, NR (dB)	Apparent Transmission Loss, ATL (dB)	Exceptions noted in ASTM E336-16
100	102.0	66.0	40.8	0.514	36.0	36.0	0
125	100.9	65.1	44.0	0.577	35.8	36.2	0
160	99.6	62.9	38.9	0.464	36.7	36.2	0
200	95.4	55.3	38.0	0.538	40.1	40.2	0
250	91.9	52.6	39.3	0.608	39.3	40.0	0
315	88.6	45.5	38.9	0.507	43.1	43.0	0
400	90.0	45.4	34.6	0.410	44.6	43.6	0
500	87.7	41.7	33.6	0.351	46.0	44.3	0
630	83.3	38.0	29.4	0.375	45.3	43.9	0
800	86.7	38.4	30.5	0.329	48.3	46.3	0
1000	85.6	33.7	28.3	0.318	51.9	49.8	0
1250	84.8	28.7	27.3	0.331	56.1	54.1	1
1600	80.9	25.0	24.1	0.315	55.9	53.7	1
2000	77.9	22.5	22.5	0.330	55.5	53.5	1
2500	81.8	21.9	19.7	0.323	59.9	57.9	1
3150	83.4	21.2	18.4	0.277	62.3	59.5	1
4000	84.3	20.1	17.1	0.306	64.3	62.0	1

ASTC: 49

The Apparent Sound Transmission Class (ASTC) of 49 was calculated. The ASTC rating is based on Apparent Transmission Loss (ATL), and includes the effects of noise flanking. The ASTC reference contour is shown on the next page, and has been fit to the Apparent Transmission Loss 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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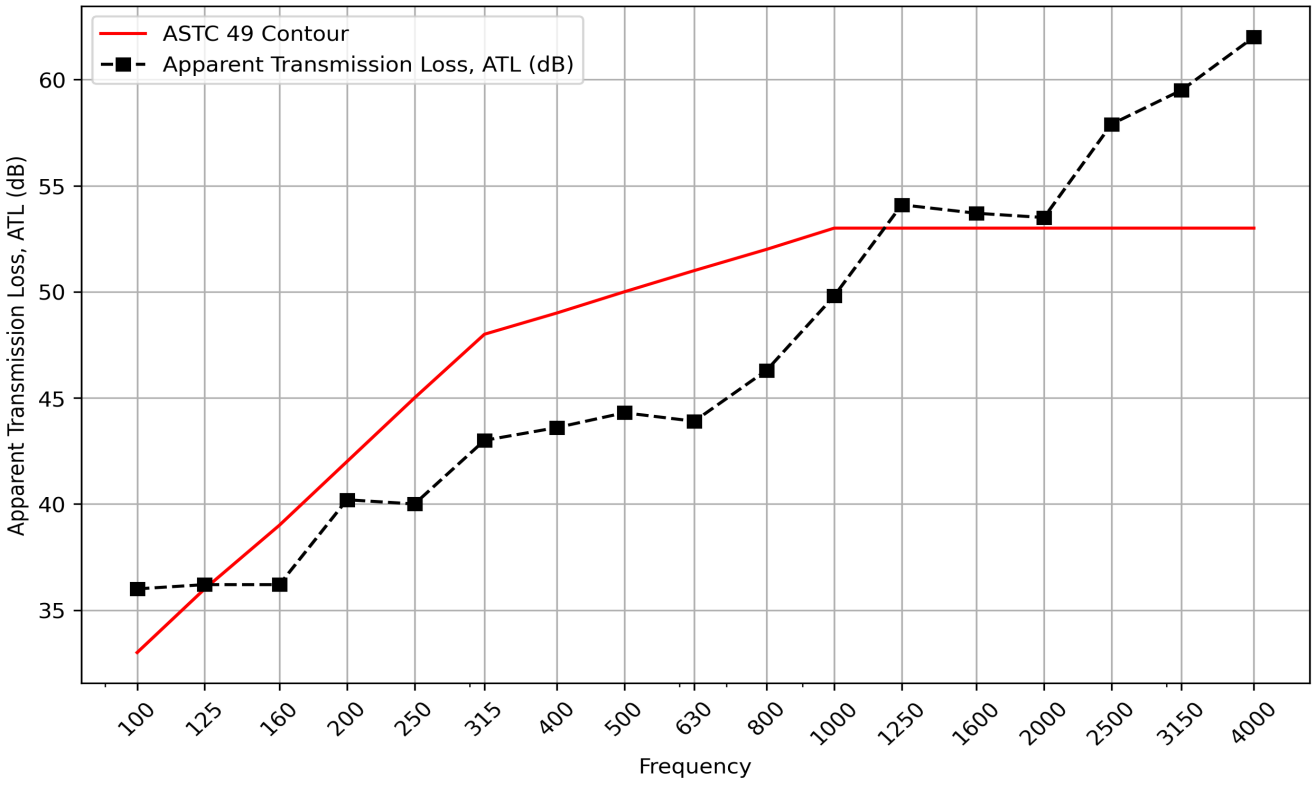

ASTC: 49

Test Conducted By:

Jake Pfitsch, Project Consultant

Zane Wright, Project Consultant

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