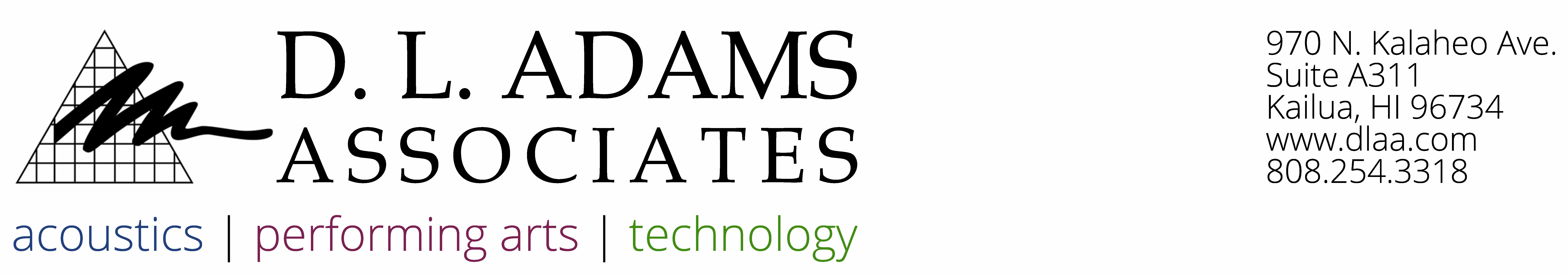
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May 3, 2023

JL Capital

1440 Kapiolani Blvd. Suite 1509  
Honolulu, Hawaii 96814

Attention: Mr. Michael Vachio

**RE: Sky Ala Moana – Acoustical ASTM Testing Results (DLAA #23-010)**

Dear Mr. Vachio:

DLAA has completed ASTM E336-17a and ASTM E1007-16 tests for Sky Ala Moana hotel and residential units. Tests were conducted in April 2023. Results represent acoustical rating at date and time of test for the doors and walls tested only.

**Acoustical Concepts and Definitions**

*Airborne Noise*

The Sound Transmission Class (STC) is a single-number rating which grades how well an assembly attenuates airborne noise, such as conversation. STC is measured according to ASTM E90 and classified according to ASTM E413. The higher the STC rating, the more efficient the partition is at reducing airborne noise between spaces. STC is only determined in a laboratory where all paths by which sound could travel around the test specimen are strictly controlled, ensuring the measured sound is only that which travels through the test specimen. Field ratings of airborne sound isolation are measured according to ASTM E336-17a and classified according to ASTM E413. According to ASTM E336-17a, the “Standard Method for Measurement of Sound Isolation in Buildings”, measurements of a partition in the field include all elements in the assembly that would otherwise be absent in a laboratory. The effects of site-specific field conditions are included in the field metric Apparent Sound Transmission Class (ASTC). The ASTC rating of a construction element is typically specified 5 points less than the corresponding laboratory rating.

*Impact Noise*

The Impact Insulation Class (IIC) is a single-number rating which grades how well a floor/ceiling assembly attenuates impact noise, such as footsteps. The higher the IIC rating, the more efficient the partition is at reducing impact noise between spaces. It should be noted that the IIC rating is limited in that it does not address low frequency noise below 125 Hz. This is generally not a concern when with concrete and/or steel structures. Field measurements of impact noise are classified as Apparent Impact Insulation Class (AIIC). Field measurements determine a single-number Apparent Impact Insulation Class (AIIC) rating, which is typically allowed to be 5 points less than the corresponding laboratory IIC rating. For example, a floor/ceiling assembly with IIC 55 and AIIC 50 ratings would be considered to have equivalent impact insulation performance.

**Testing Procedure & Equipment**

Impact sound insulation was measured in general accordance with ASTM E1007-16, “Standard Test Method for Field Measurement of Tapping Machine Impact Sound Transmission Through Floor-Ceiling Assemblies and Associated Support Structures.” Impact sound insulation ratings are determined in accordance with ASTM E989-06 (2012), “Standard Classification for Determination of Impact Insulation Class (IIC)”.

Airborne sound isolation was measured in general accordance with ASTM E336-17a, “Standard Test Method for Measurement of Airborne Sound Attenuation between Rooms in Buildings”. Airborne sound transmission ratings are determined in accordance with ASTM E413, “Classification of Rating Sound Insulation”.

Equipment used for testing included a Larson Davis Model 831 Type 1 Precision Integrating Sound Level Meter (S/N 003784) with a PCB Model PRM831 preamplifier (S/N 051188) and PCB Model 377B20 ½” random incidence microphone (S/N 301698). The sound level meter calibration was verified with a Larson Davis Model CAL200 (S/N 2443) before all measurements and at the conclusion of all measurements.

A second Larson Davis Model 831 Type 1 Precision Integrating Sound Level Meter (S/N 004328) was used, with a PCB Model PRM831 preamplifier (S/N 046469) and PCB Model 377B20 ½” random incidence microphone (S/N 168830). The sound level meter calibration was verified with a Larson Davis Model CAL200 (S/N 5955) before all measurements and at the conclusion of all measurements.

The tapping machine was a Norsonic Model Nor-277 (S/N 2775671).

**Test Conditions**

The purpose of these tests was to determine the rating of floor/ceiling systems and wall partitions compared to the design criteria. Per DLAA’s “Acoustical Report Design Criteria, Guidelines, and Recommendations” report, dated September 19, 2018, the floors were designed to achieve IIC 54, and the wall partitions were designed to achieve STC 54. The equivalent field ratings for a “PASS” result would be at minimum AIIC 49 and ASTC 49, respectively.

**Table 1** below reports field-determined ASTC and AIIC for tested partitions and floor-ceiling assemblies, as well as the designed STC ratings. ASTM E336-17a test reports for each tested floor/ceiling assembly and partition are attached.

**Table 1: Sky Ala Moana ASTM Testing Results**

| **Test Number** | **Unit/**  **Partition** | **Design Criteria** | **Field Criteria** | **Composite Field-Tested Result** | **Pass/Fail** |
| --- | --- | --- | --- | --- | --- |
| 1.1.0 | Unit Type R-10  Residential Floors 12-13  (Floor/Ceiling Assembly) | IIC 54 | AIIC 49 | AIIC 53 | **PASS** |
| 1.2.0 | Unit Type R-11  Residential Floors 12-13  (Floor/Ceiling Assembly) | IIC 54 | AIIC 49 | AIIC 45 | **FAIL** |
| 1.3.0 | Unit Type C-08  Hotel Floors 29-30  (Floor/Ceiling Assembly) | IIC 54 | AIIC 49 | AIIC 50 | **PASS** |
| 1.4.0 | Unit Types C-09/C-08  Hotel Floor 30  (Wall Partition) | STC 54 | ASTC 49 | ASTC 49 | **PASS** |
| 1.5.0 | Unit Types C-06/C-08  Hotel Floor 30  (Wall Partition) | STC 54 | ASTC 49 | ASTC 51 | **PASS** |
| 1.6.0 | Unit Types C-05/C-03  Hotel Floor 30  (Wall Partition) | STC 54 | ASTC 49 | ASTC 49 | **PASS** |
| 1.7.0 | Unit Types C-01/C-02  Hotel Floor 30  (Wall Partition) | STC 54 | ASTC 49 | ASTC 49 | **PASS** |
| 1.8.0 | Unit Types R-09/R-11  Residential Floor 11  (Wall Partition) | STC 54 | ASTC 49 | ASTC 55 | **PASS** |
| 1.9.0 | Unit Types R-06/R-08  Residential Floor 11  (Wall Partition) | STC 54 | ASTC 49 | ASTC 58 | **PASS** |
| 1.10.0 | Unit Types R-01/R-03  Residential Floor 11  (Wall Partition) | STC 54 | ASTC 49 | ASTC 66 | **PASS** |
| 1.11.0 | Unit Type C-07  Hotel Floors 34-35  (Floor/Ceiling Assembly) | IIC 54 | AIIC 49 | AIIC 55 | **PASS** |

**Discussion**

Results show that all tested floor/ceiling assemblies and wall partitions achieved the design criteria, with the exception of the assembly between units 1211 and 1311 in the residential tower (Unit Type R-11).

Please feel free to contact us if you have any questions or comments.

Sincerely,

![A close-up of a pen

Description automatically generated with low confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4R8iRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE4OjA3OjAzIDE1OjA5OjAyAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM1NAAAkpIAAgAAAAM1NAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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