627 RIVERBANK DRIVE GENEVA, IL 60134 630-232-0104

Test Report

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FOUNDED 1918 BY WALLACE CLEMENT SABINE

Sound Absorption RALTM-A24-151

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SPONSOR: Moxie Surfaces

Encinitas, CA

CONDUCTED: 2024-03-20

ON: AIR-board Acoustic – 3/4"

TEST METHODOLOGY

Riverbank Acoustical LaboratoriesTM is accredited by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) as an ISO 17025:2017 Laboratory (NVLAP Lab Code: 100227-0) and for this test procedure. The test reported in this document conformed explicitly with ASTM C423-23: "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method." The specimen mounting was performed according to ASTM E795-23: "Standard Practices for Mounting Test Specimens During Sound Absorption Tests." A description of the measurement procedure and room specifications are available upon request. The results presented in this report apply to the sample as received from the test sponsor.

<u>INFORMATION PROVIDED BY SPONSOR</u>

The test specimen was designated by the sponsor as AIR-board Acoustic -3/4". The following nominal product information was provided by the sponsor prior to testing. The accuracy of such sponsor-provided information can affect the validity of the test results.

Product Under Test

Product Name: AIR-board Acoustic – 3/4"

Manufacturer: Moxie Surfaces / Design Composite

SPECIMEN MEASUREMENTS & TEST CONDITIONS

Through a full external visual inspection performed on the test specimen, Riverbank personnel verified the following information:

Test Specimen

Material: Panels, honeycomb core and microperforated sheets on face and back

Dimensions: 2 panels @ 1219 mm (48 in.) by 2438 mm (96 in.)

Thickness: 19.2 mm (0.756 in.) Overall Weight: 20.41 kg (45 lbs)



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Overall Specimen Properties

Size: 2.44 m (96.0 in) wide by 2.44 m (96.0 in) long

Thickness: 0.02 m (0.756 in)
Weight: 20.41 kg (45.0 lbs)

Mass per Unit Area: 3.43 kg/m² (0.7 lbs/ft²) Calculation Area: 5.946 m² (64. ft²)

Test Environment

Room Volume: 291.98 m³

Temperature: $21.3 \,^{\circ}\text{C} \pm 0.1 \,^{\circ}\text{C}$ (Requirement: $\geq 10 \,^{\circ}\text{C}$ and $\leq 5 \,^{\circ}\text{C}$ change) Relative Humidity: $60.45 \,^{\circ} \pm 3.7 \,^{\circ}$ (Requirement: $\geq 40 \,^{\circ}$ and $\leq 5 \,^{\circ}$ change)

Barometric Pressure: 98.6 kPa (Requirement not defined)

MOUNTING METHOD

Type A Mounting: The test specimen was laid directly against the test surface. Perimeter edges were sealed with metal framing and tape.





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Figure 1 – Specimen mounted in test chamber



Figure 2 – Individual specimen panel



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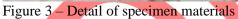
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