

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

## Test Report

[www.riverbankacoustics.com](http://www.riverbankacoustics.com)

FOUNDED 1918 BY  
WALLACE CLEMENT SABINE

SPONSOR: **Moxie Surfaces**  
Encinitas, CA

**Sound Absorption**  
**RAL™-A24-151**

CONDUCTED: 2024-03-20

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ON: AIR-board Acoustic – 3/4"

### TEST METHODOLOGY

Riverbank Acoustical Laboratories™ 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.

### INFORMATION PROVIDED BY SPONSOR

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/m<sup>2</sup> (0.7 lbs/ft<sup>2</sup>)  
Calculation Area: 5.946 m<sup>2</sup> (64. ft<sup>2</sup>)

### Test Environment

Room Volume: 291.98 m<sup>3</sup>  
Temperature: 21.3 °C ± 0.1 °C (Requirement: ≥ 10 °C and ≤ 5 °C change)  
Relative Humidity: 60.45 % ± 3.7 % (Requirement: ≥ 40 % and ≤ 5 % 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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Figure 3 – Detail of specimen materials