

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

Test Report

www.riverbankacoustics.com

FOUNDED 1918 BY
WALLACE CLEMENT SABINE

SPONSOR: **ASI**
Chaska, MN

Sound Absorption
RAL™-A25-031

CONDUCTED: 2025-01-17

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ON: Slatta

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 Slatta. 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: Slatta
Manufacturer: ASI

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 with PET felt base and spaced wood slots over base felt
Panel Dimensions: 4 panel @ 578 mm (22.75 in.) by 2438 mm (96 in.)
1 panel @ 454 mm (17.875 in.) by 2438 mm (96 in.)
Wood Slat Width: 25.32 mm (0.997 in.)
Wood Slat Spacing: 23.13 mm (0.9105 in.) apart
Base Thickness: 11.67 mm (0.4595 in.)
Wood Slat Thickness: 12.92 mm (0.5085 in.)
Total Thickness: 24.46 mm (0.963 in.)
Overall Weight: 57.15 kg (126 lbs)



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SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

Overall Specimen Properties

Size: 2.74 m (108.0 in) wide by 2.44 m (96.0 in) long
Thickness: 0.02 m (0.963 in)
Weight: 57.15 kg (126.0 lbs)
Mass per Unit Area: 8.54 kg/m² (1.75 lbs/ft²)
Calculation Area: 6.689 m² (72. ft²)

Test Environment

Room Volume: 291.98 m³
Temperature: 21.1 °C ± 0.1 °C (Requirement: ≥ 10 °C and ≤ 5 °C change)
Relative Humidity: 61.55 % ± 4.5 % (Requirement: ≥ 40 % and ≤ 5 % change)
Barometric Pressure: 97.5 kPa (Requirement not defined)

MOUNTING METHOD

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

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Figure 1 – Specimen mounted in test chamber

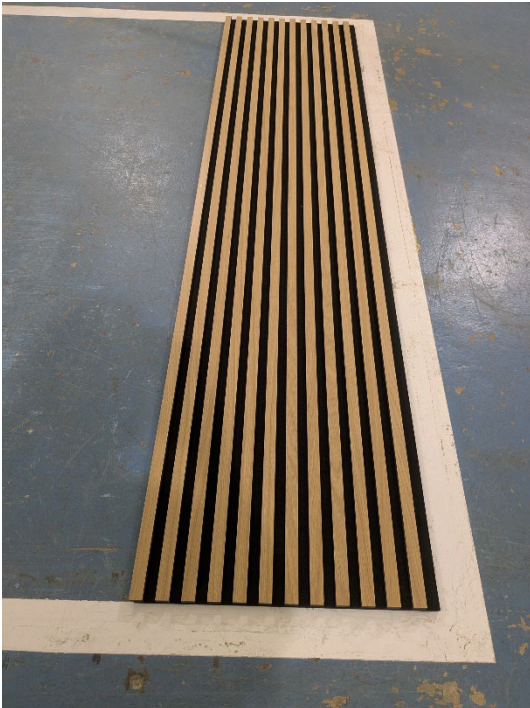


Figure 2 – Individual specimen panel

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Figure 3 – Detail of specimen materials

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TEST RESULTS

Specimen total absorption and absorption coefficient are tabulated at the eighteen standard frequencies. A graphic presentation of the data and additional information appear on the following pages.

1/3 Octave Center Frequency (Hz)	Total Absorption (m ²)	Total Absorption (Sabins)	Absorption Coefficient
100	0.46	5.00	0.07
** 125	0.48	5.21	0.07
160	0.29	3.10	0.04
200	0.29	3.15	0.04
** 250	0.61	6.59	0.09
315	0.89	9.62	0.13
400	1.34	14.43	0.20
** 500	2.19	23.56	0.33
630	3.12	33.60	0.47
800	4.33	46.59	0.65
** 1000	5.43	58.44	0.81
1250	6.49	69.81	0.97
1600	7.18	77.27	1.07
** 2000	7.41	79.77	1.11
2500	7.20	77.46	1.08
3150	6.71	72.19	1.00
** 4000	5.91	63.57	0.88
5000	5.41	58.25	0.81

SAA = 0.58
NRC = 0.60

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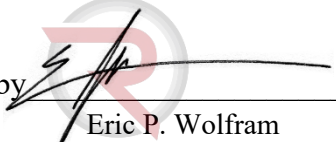
TEST RESULTS (continued)

The sound absorption average (SAA) is defined in ASTM C423-23 Section 3.1.1 as the arithmetic average of the sound absorption coefficients of a material for the twelve one-third octave bands from 200 Hz through 2500 Hz, inclusive, rounded to the nearest integer multiple of 0.01.

The noise reduction coefficient (NRC) is defined from previous versions of ASTM C423 as the arithmetic average of the sound absorption coefficients at 250 Hz, 500 Hz, 1000 Hz, and 2000 Hz, rounded to the nearest integer multiple of 0.05.

Tested by 
Marc Sciaky
Senior Experimentalist

Report by 
Keith Kimberling
Test Engineer

Approved by 
Eric P. Wolfram
Laboratory Manager

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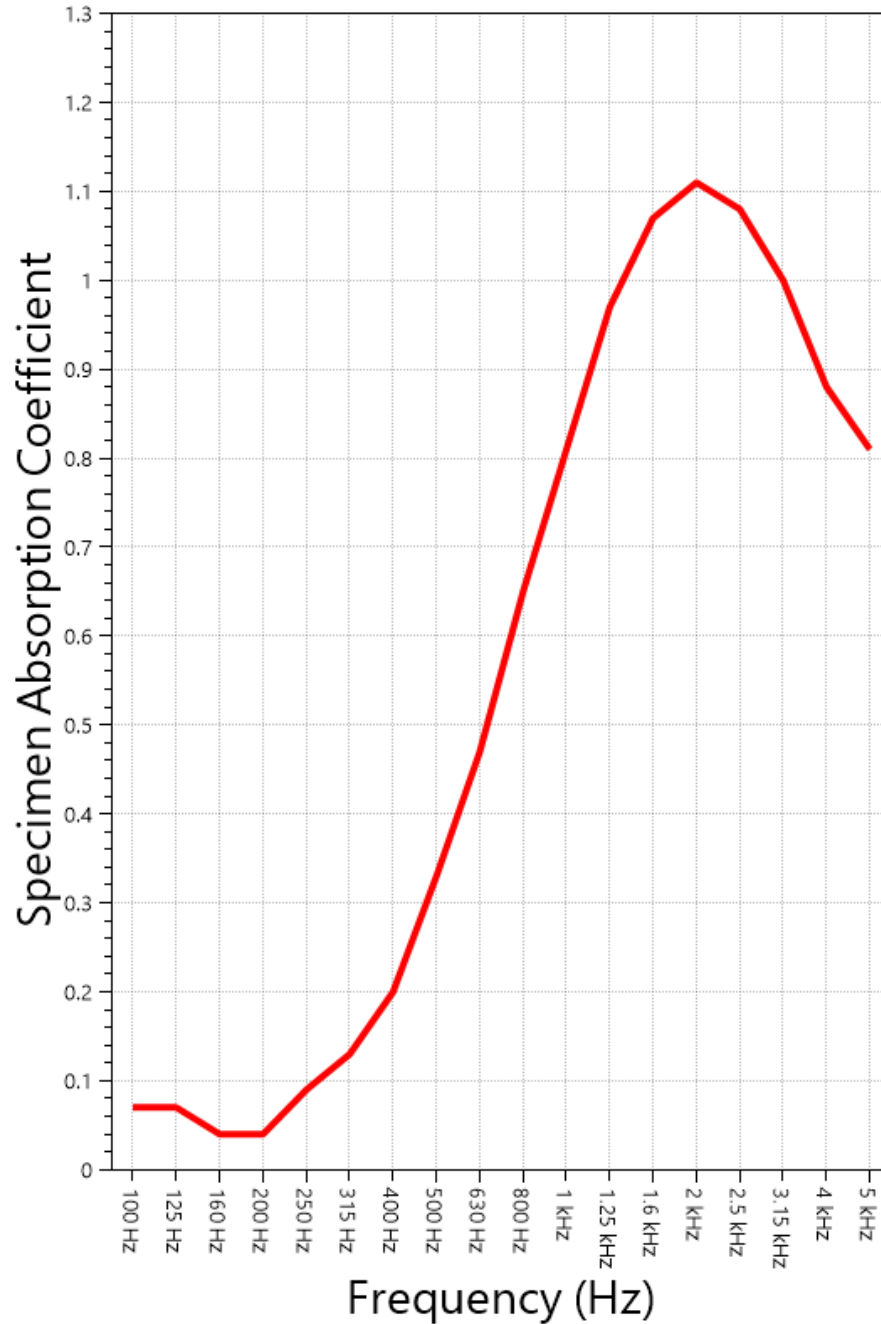
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SOUND ABSORPTION REPORT

Slatta



SAA = 0.58

NRC = 0.60



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APPENDIX A: Extended Frequency Range Data

Specimen: Slatta (See Full Report)

The following non-accredited data were obtained in accordance with ASTM C423-23, but extend beyond the defined frequency range of 100Hz to 5,000Hz. These unofficial results are representative of the RAL test environment only and intended for research & comparison purposes.

1/3 Octave Band Center Frequency (Hz)	Total Absorption (Sabins)	Absorption Coefficient
31.5	-2.49	-0.03
40	6.12	0.09
50	0.18	0.00
63	-2.30	-0.03
80	0.94	0.01
100	5.00	0.07
125	5.21	0.07
160	3.10	0.04
200	3.15	0.04
250	6.59	0.09
315	9.62	0.13
400	14.43	0.20
500	23.56	0.33
630	33.60	0.47
800	46.59	0.65
1000	58.44	0.81
1250	69.81	0.97
1600	77.27	1.07
2000	79.77	1.11
2500	77.46	1.08
3150	72.19	1.00
4000	63.57	0.88
5000	58.25	0.81
6300	50.61	0.70
8000	47.08	0.65
10000	45.13	0.63
12500	55.47	0.77

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APPENDIX B: Instruments of Traceability

Specimen: Slatta (See Full Report)

<u>Description</u>	<u>Model</u>	<u>Serial Number</u>	<u>Date of Certification</u>	<u>Calibration Due</u>
System 1	Type 3160-A-042	3160-106974	2024-08-15	2025-08-15
Bruel & Kjaer Mic And Preamp G	Type 4943-B-001	2525858	2024-05-07	2025-05-07
Bruel & Kjaer Pistonphone	Type 4228	2781248	2024-07-19	2025-07-19
EXTECH Hygro 959	SD700	A099959	2024-03-29	2025-03-29

APPENDIX C: Revisions to Original Test Report

Specimen: Slatta (See Full Report)

<u>Date</u>	<u>Revision</u>
2025-02-13	Original report issued

END