

1512 S BATAVIA AVENUE
GENEVA, IL 60134
630-232-0104

Test Report

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FOUNDED 1918 BY
WALLACE CLEMENT SABINE

SPONSOR: **Sound Seal**
Agawam, MA

Sound Absorption
RAL™-A22-356

CONDUCTED: 2022-08-18

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ON: Vivid QFA-2” - Indoor/Outdoor Curtain Panel

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 C423-22: "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method." The specimen mounting was performed according to ASTM E795-16: "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.

SPECIMEN MEASUREMENTS & TEST CONDITIONS

The test specimen was designated by the sponsor as Vivid QFA-2” - Indoor/Outdoor Curtain Panel. Through a full external visual inspection performed on the test specimen, Riverbank personnel verified the following information:

Test Specimen

Dimensions:	2 blankets @ 1245 mm (49 in.) by 2743 mm (108 in.)
Thickness:	28.6 mm (1.125 in.)
Overall Weight:	13.83 kg (30.5 lbs)
Mass per Unit Volume:	70.9 kg/m ³ (4.43 lbs/ft ³)

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Overall Specimen Properties

Size: 2.49 m (98.0 in) wide by 2.74 m (108.0 in) long
Thickness: 0.03 m (1.125 in)
Weight: 13.83 kg (30.5 lbs)
Mass per Unit Area: 2.03 kg/m² (0.41 lbs/ft²)
Calculation Area: 6.828 m² (73.5 ft²)

Test Environment

Room Volume: 291.98 m³
Temperature: 21.7 °C ± 0.0 °C (Requirement: ≥ 10 °C and ≤ 5 °C change)
Relative Humidity: 57.0 % ± 0.8 % (Requirement: ≥ 40 % and ≤ 5 % change)
Barometric Pressure: 98.8 kPa (Requirement not defined)

MOUNTING METHOD

Type A Mounting: The test specimen was laid directly against the test surface. Per sponsor request, the perimeter edges were left exposed, as would be typical of a field installation of the product under test.

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Figure 1 – Specimen mounted in test chamber



Figure 2 – 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	0.53	5.67	0.08
** 125	0.90	9.73	0.13
160	1.83	19.69	0.27
200	3.77	40.56	0.55
** 250	5.74	61.79	0.84
315	6.82	73.38	1.00
400	6.92	74.48	1.01
** 500	6.25	67.25	0.92
630	5.92	63.77	0.87
800	5.20	56.02	0.76
** 1000	4.42	47.55	0.65
1250	4.08	43.88	0.60
1600	3.55	38.20	0.52
** 2000	3.07	32.99	0.45
2500	2.64	28.40	0.39
3150	2.28	24.57	0.33
** 4000	2.03	21.83	0.30
5000	1.85	19.88	0.27

SAA = 0.71
NRC = 0.70

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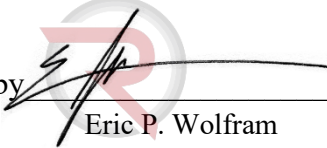
TEST RESULTS (continued)

The sound absorption average (SAA) is defined in ASTM C423-17 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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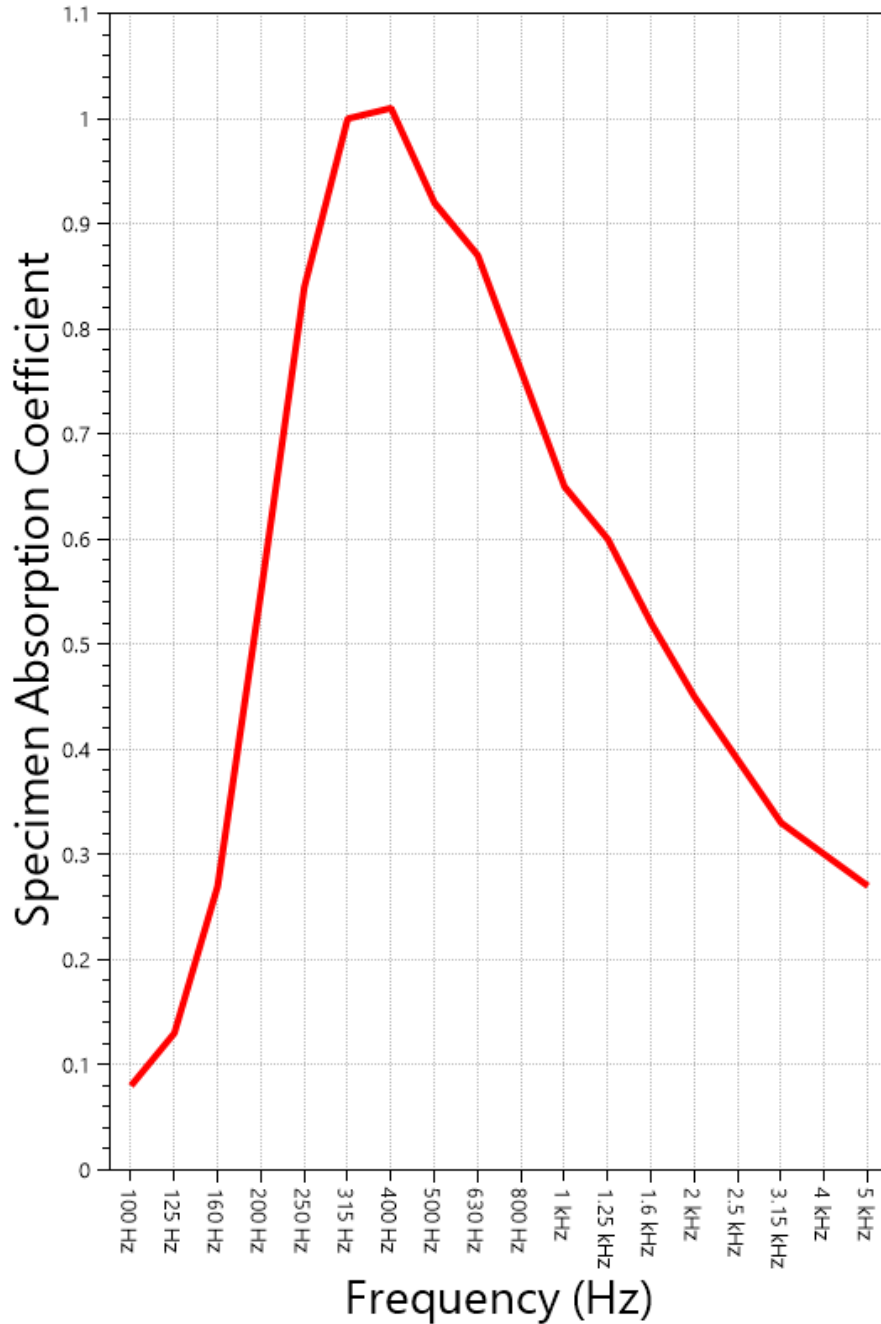
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SOUND ABSORPTION REPORT

Vivid QFA-2" - Indoor/Outdoor Curtain Panel



SAA = 0.71

NRC = 0.70



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APPENDIX A: Extended Frequency Range Data

Specimen: Vivid QFA-2” - Indoor/Outdoor Curtain Panel (See Full Report)

The following non-accredited data were obtained in accordance with ASTM C423-22, 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	4.22	0.06
40	3.67	0.05
50	-21.85	-0.30
63	-7.02	-0.10
80	3.52	0.05
100	5.67	0.08
125	9.73	0.13
160	19.69	0.27
200	40.56	0.55
250	61.79	0.84
315	73.38	1.00
400	74.48	1.01
500	67.25	0.92
630	63.77	0.87
800	56.02	0.76
1000	47.55	0.65
1250	43.88	0.60
1600	38.20	0.52
2000	32.99	0.45
2500	28.40	0.39
3150	24.57	0.33
4000	21.83	0.30
5000	19.88	0.27
6300	18.32	0.25
8000	17.35	0.24
10000	16.22	0.22
12500	19.61	0.27

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APPENDIX B: Instruments of Traceability

Specimen: Vivid QFA-2” - Indoor/Outdoor Curtain Panel (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	3160-106968	2022-07-12	2023-07-12
Bruel & Kjaer Mic And Preamp A	Type 4943-B-001	2311428	2021-09-30	2022-09-30
Bruel & Kjaer Pistonphone	Type 4228	2781248	2022-07-22	2023-07-22
EXTECH Hygro 959	SD700	A099959	2022-03-22	2023-03-22

APPENDIX C: Revisions to Original Test Report

Specimen: Vivid QFA-2” - Indoor/Outdoor Curtain Panel (See Full Report)

<u>Date</u>	<u>Revision</u>
2022-08-29	Original report issued

END