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

Test Report

www.riverbankacoustics.com

FOUNDED 1918 BY
WALLACE CLEMENT SABINE

SPONSOR: **Focal Point Lighting**
Chicago, IL

Sound Absorption
RAL™-A26-437

CONDUCTED: 2026-09-15

ON: 25” Polina Round (11 objects in three staggered rows, four objects in 1st row, three objects in 2nd row, four objects in 3rd row, objects spaced 3” apart) placed on test surface

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 25” Polina Round (11 objects in three staggered rows, four objects in 1st row, three objects in 2nd row, four objects in 3rd row, objects spaced 3” apart) placed on test surface. 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:	25” Polina Round
Manufacturer:	Focal Point Lighting

SPECIMEN MEASUREMENTS & TEST CONDITIONS

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

Test Specimen

Product Type:	Eleven (11) disc-shaped baffles
Baffle Diameter:	627 mm (24.6875 in.)
Thickness:	76 mm (3 in.)
Overall Weight:	15.42 kg (34 lbs)

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NVLAP LAB CODE 100227-0

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SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

Physical Measurements (per object)

Dimensions:	0.63 m (24.6875 in) wide by 0.63 m (24.6875 in) long
Thickness:	76 mm (3.0 in.)
Weight:	1.4 kg (3.09 lbs)

Test Environment

Room Volume:	291.98 m^3
Temperature:	23.3 °C ± 0.0 °C (Requirement: ≥ 10 °C and ≤ 5 °C change)
Relative Humidity:	54.2 % ± 0.1 % (Requirement: ≥ 40 % and ≤ 5 % change)
Barometric Pressure:	99.0 kPa (Requirement not defined)

Each sound absorbing object had an exposed surface area of 0.91 m^2 (9.80 ft^2). The total exposed surface area of all sound-absorbing objects was 10.0 m^2 (108 ft^2). These surface area values are nominal values provided by the test sponsor.

MOUNTING METHOD

Type JH-MOD Mounting: The specimen is an array of 11 spaced sound absorbing objects placed directly on top of the horizontal test surface. This approximates the mounting method of a typical ceiling baffle installation. The objects were distributed in three staggered rows, with four objects in the 1st row, three objects in the 2nd row, four objects in the 3rd row, and objects spaced 76 mm (3 in.) apart. The width of the installed object array was 2743 mm (108 in.) and the length of the installed object array was 1854 mm (73 in.). The area of extended continuous surface attributed to the object array was 5.44 m^2 (58.6 ft^2).

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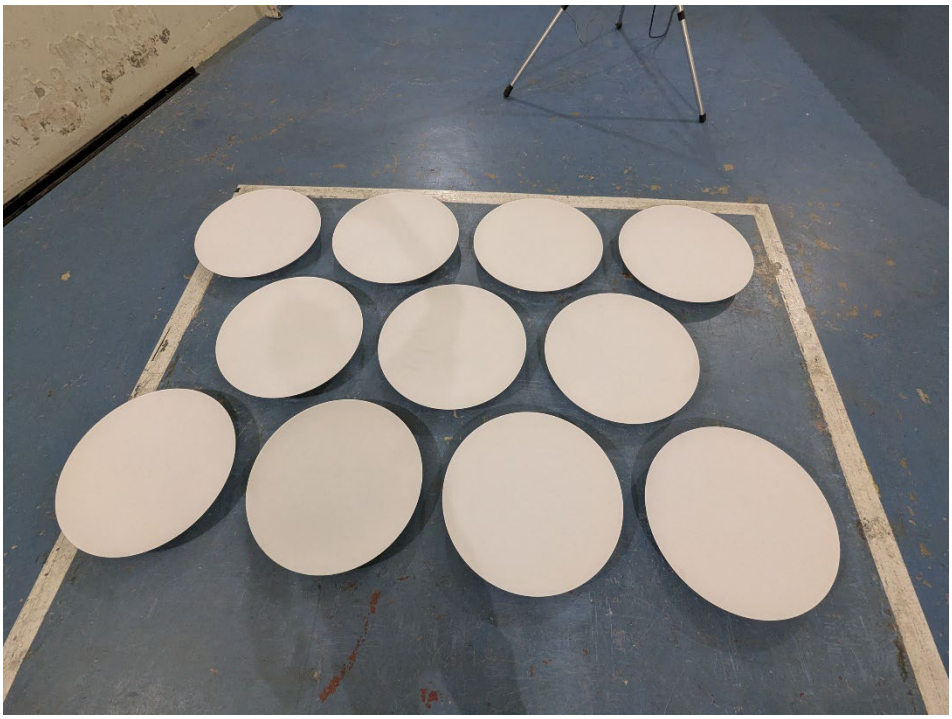


Figure 1 – Specimen mounted in test chamber

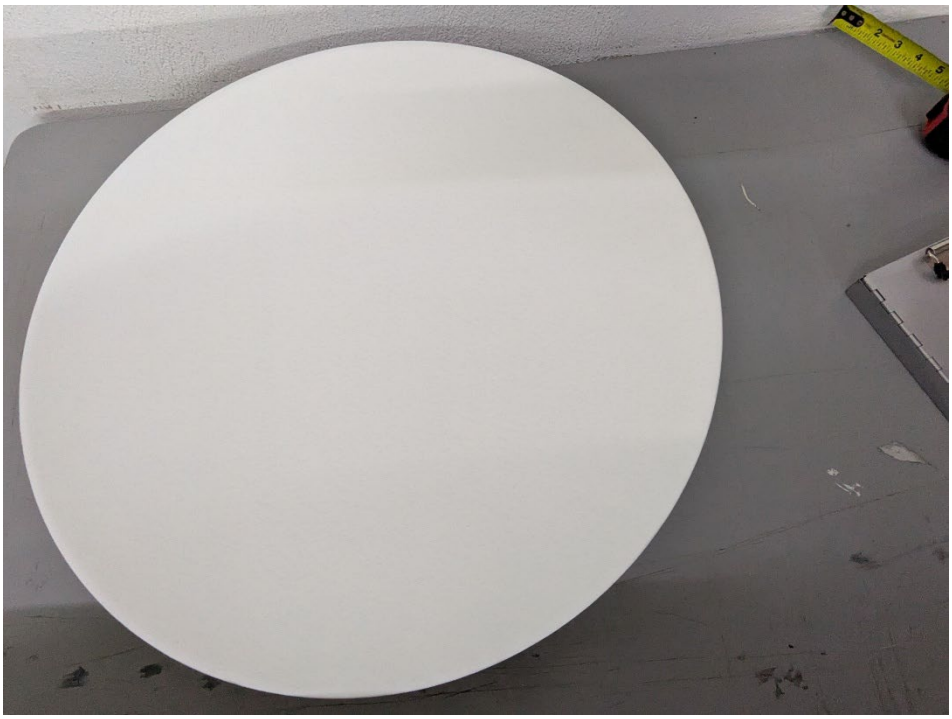


Figure 2 – Individual specimen baffle prior to installation in test chamber

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Figure 3 – Individual specimen baffle prior to installation in test chamber

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TEST RESULTS

The preferred presentation of sound absorption test results for arrays of spaced objects is sound absorption (m^2) per object and total sound absorption (m^2) at each one-third-octave band

ASTM C423-23 Appendix X2 allows calculation of sound absorption per m^2 (SA/m^2) based on the projected horizontal surface area attributable to an array of objects. The extended continuous surface area used in this calculation is to be determined using the following procedure:

> $S_{array} = (w + w_1) \times (l + l_1)$ If the set of objects consists of a rectangular array of equal sized objects with equal space between each object in a row and equal space between rows. (ASTM E423-23 X.2.3.1)

Where:
S_{array} = area of extended continuous surface attributed to the test specimen, m^2
w = the measured width of the installed object array, in meters
w_1 = the space between objects in the array along the width, in meters
l = the measured length of the installed object array, in meters
l_1 = the space between objects in the array along the length, in meters

The sound absorption per m^2 (SA/m^2) is calculated based on the following formula:

$$\alpha_{array} = (A_2 - A_1)/S_{array}$$

Where:

α_{array} = sound absorption per m^2 (SA/m^2) of extended continuous surface, no units,
A_1 = absorption of the empty reverberation room, m^2 and
A_2 = absorption of the room after the specimen has been installed, m^2.
S_{array} = area of extended continuous surface attributed to the test specimen, m^2

Note: Due to the irregular nature of the array in this test, there are variances to the intended array configuration in this method.

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TEST RESULTS (continued)

1/3 Octave Center Frequency (Hz)	Total Absorption (m^2)	Total Absorption (Sabins)	Absorption per Object (m^2 / Object)	Absorption per Object (Sabins / Object)	α_{array} (Sabins/ft^2) (SA/m^2)
100	-0.14	-1.47	-0.01	-0.13	-0.03
** 125	0.11	1.24	0.01	0.11	0.02
160	-0.01	-0.11	0.00	-0.01	0.00
200	0.46	4.95	0.04	0.45	0.08
** 250	0.42	4.51	0.04	0.41	0.08
315	0.98	10.57	0.09	0.96	0.18
400	1.33	14.37	0.12	1.31	0.25
** 500	2.35	25.29	0.21	2.30	0.43
630	2.97	31.98	0.27	2.91	0.55
800	4.02	43.27	0.37	3.93	0.74
** 1000	4.61	49.60	0.42	4.51	0.85
1250	4.67	50.31	0.42	4.57	0.86
1600	4.62	49.78	0.42	4.53	0.85
** 2000	4.35	46.78	0.40	4.25	0.80
2500	4.26	45.87	0.39	4.17	0.78
3150	4.17	44.84	0.38	4.08	0.77
** 4000	4.25	45.79	0.39	4.16	0.78
5000	4.27	45.97	0.39	4.18	0.78

Array-NRC 0.55 over 5.44 m² of extended continuous surface area
Array-SAA 0.54 over 5.44 m² of extended continuous surface area

Digitally signed by Eric P Wolfram
Date: 2026.10.09 09:22:06 -05'00'

Tested by: Marc Sciaky, *Senior Experimentalist*
Report by: Keith Kimberling, *Test Engineer*
Approved by: Eric P. Wolfram, *Laboratory Manager*

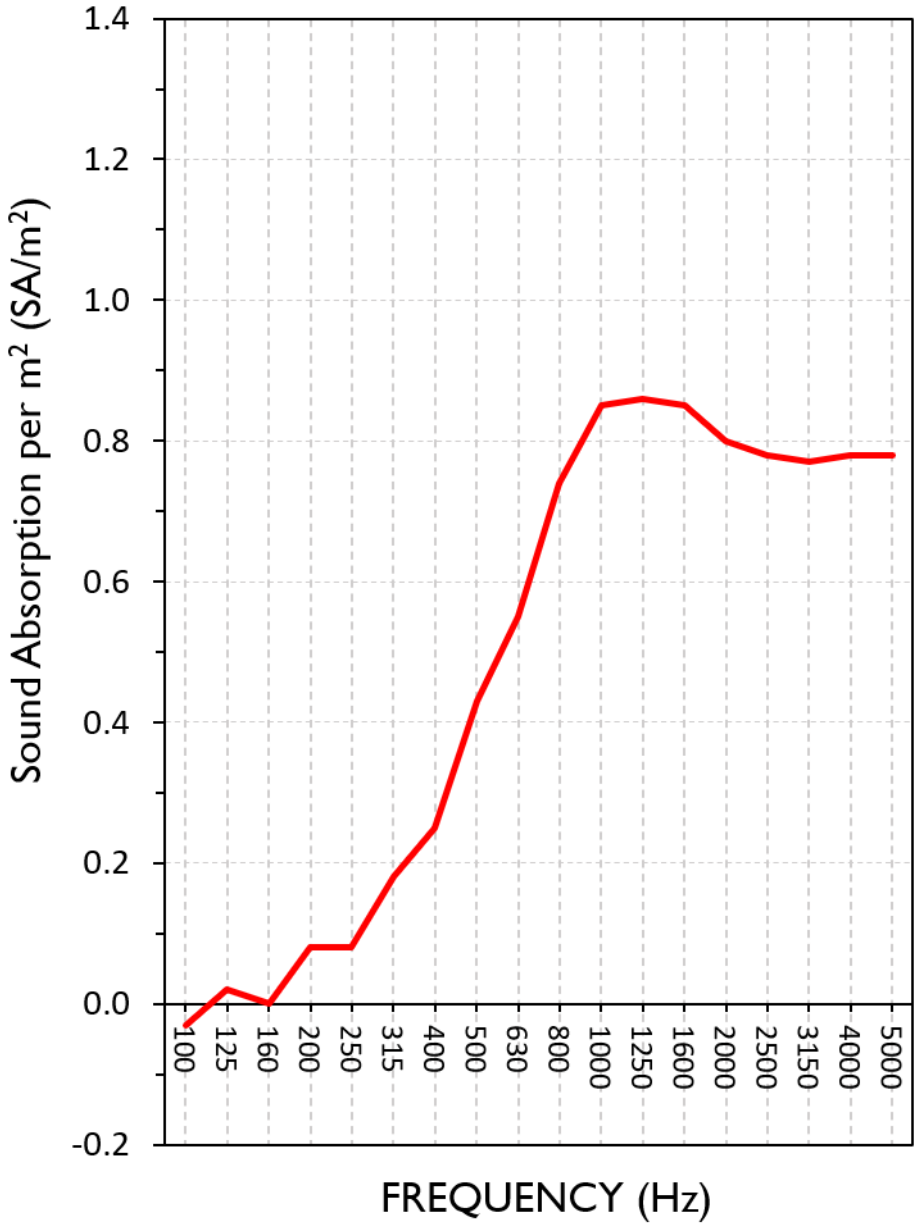
Note: Sound absorption per m^2 (SA/m^2), and therefore the reported Single Number Ratings, are highly dependent on the exact sample shape, size, spacing, and extended continuous surface area present in the test and subsequent calculations. Changes to any of these parameters will change the resulting values. These presented results are valid only for the specific configuration present in this test.

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SOUND ABSORPTION REPORT

25" Polina Round (11 objects in three staggered rows, four objects in 1st row, three objects in 2nd row, four objects in 3rd row, objects spaced 3" apart) placed on test surface



Array-NRC 0.55 over 5.44 m² of extended continuous surface area
Array-SAA 0.54 over 5.44 m² of extended continuous surface area

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APPENDIX A: Extended Frequency Range Data

Specimen: 25" Polina Round (11 objects in three staggered rows, four objects in 1st row, three objects in 2nd row, four objects in 3rd row, objects spaced 3" apart) placed on test surface (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	Total Absorption		Absorption per Object		α_{array} (Sabins/ft^2)
(Hz)	(m^2)	(Sabins)	(m^2 / Object)	(Sabins / Object)	(SA/m^2)
31.5	0.58	6.26	0.05	0.57	0.11
40	-0.76	-8.18	-0.07	-0.74	-0.14
50	-1.11	-12.00	-0.10	-1.09	-0.20
63	0.00	0.00	0.00	0.00	0.00
80	-0.35	-3.75	-0.03	-0.34	-0.06
100	-0.14	-1.47	-0.01	-0.13	-0.03
125	0.11	1.24	0.01	0.11	0.02
160	-0.01	-0.11	0.00	-0.01	0.00
200	0.46	4.95	0.04	0.45	0.08
250	0.42	4.51	0.04	0.41	0.08
315	0.98	10.57	0.09	0.96	0.18
400	1.33	14.37	0.12	1.31	0.25
500	2.35	25.29	0.21	2.30	0.43
630	2.97	31.98	0.27	2.91	0.55
800	4.02	43.27	0.37	3.93	0.74
1000	4.61	49.60	0.42	4.51	0.85
1250	4.67	50.31	0.42	4.57	0.86
1600	4.62	49.78	0.42	4.53	0.85
2000	4.35	46.78	0.40	4.25	0.80
2500	4.26	45.87	0.39	4.17	0.78
3150	4.17	44.84	0.38	4.08	0.77
4000	4.25	45.79	0.39	4.16	0.78
5000	4.27	45.97	0.39	4.18	0.78
6300	4.32	46.47	0.39	4.22	0.79
8000	5.06	54.47	0.46	4.95	0.93
10000	4.94	53.15	0.45	4.83	0.91
12500	5.08	54.65	0.46	4.97	0.93

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APPENDIX B: Instruments of Traceability

Specimen: 25” Polina Round (11 objects in three staggered rows, four objects in 1st row, three objects in 2nd row, four objects in 3rd row, objects spaced 3” apart) placed on test surface (See Full Report)

Description	Model	Serial Number	Date of Certification	Calibration Due
System 1	Type 3160-A-042	3160-108472	2025-12-25	2026-12-25
Bruek & Kjaer Mic and Preamp H	Type 4943-B-001	2525859	2025-11-18	2026-11-18
Bruel & Kjaer Sound Level Calibrator	Type 4230	861609	2025-12-08	2026-12-08
EXTECH Hygro 639	SD700	A.103639	2025-12-29	2026-12-29

APPENDIX C: Revisions to Original Test Report

Specimen: 25” Polina Round (11 objects in three staggered rows, four objects in 1st row, three objects in 2nd row, four objects in 3rd row, objects spaced 3” apart) placed on test surface (See Full Report)

Date	Revision
2026-10-09	Original report issued

END

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