Test Report

1512 S BATAVIA AVENUE GENEVA, IL 60134

630-232-0104

SPONSOR: ARTIZINTM Garland, TX

CONDUCTED: 2022-11-04 ON: ArtFelt[™] Beam Baffle System

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.

INFORMATION PROVIDED BY SPONSOR

The test specimen was designated by the sponsor as ArtFelt[™] Beam Baffle System. 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:ArtFelt™ Beam Baffle SystemCore Material:PETThickness:9mmManufacturer:ARTIZIN™

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:
 Baffles

 Dimensions:
 14 baffles @ by 305 mm (12 in.) by 1099 mm (43.25 in.)

 Thickness:
 50.89 mm (2.0035 in.)

 Overall Weight:
 22.34 kg (49.25 lbs)



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Sound Absorption <u>RALTM-A22-486</u>

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Physical Measurements (per object)

Dimensions:	0.05 m (2.003 in) wide by 1.1 m (43.25 in) long
Thickness:	0.3 m (12.0 in)
Weight:	1.6 kg (3.52 lbs)

Test Environment

Room Volume:	291.98 m ³
Temperature:	21.3 °C \pm 0.1 °C (Requirement: \geq 10 °C and \leq 5 °C change)
Relative Humidity:	$56.9 \% \pm 0.0 \%$ (Requirement: $\ge 40 \%$ and $\le 5 \%$ change)
Barometric Pressure:	98.2 kPa (Requirement not defined)

Each sound absorbing object had an exposed surface area of $0.813 \text{ m}^2 (8.75 \text{ ft}^2)$. The total exposed surface area of all sound-absorbing objects was $11.4 \text{ m}^2 (122 \text{ ft}^2)$. The array of objects covered $9.28 \text{ m}^2 (99.9 \text{ ft}^2)$ of the horizontal test surface (total treated area).

MOUNTING METHOD

Type J Mounting: The specimen is an array of 14 spaced sound absorbing objects suspended from cables such that the closest face is located approximately 1092 mm (43 in.) from the horizontal test surface. This approximates the mounting method of a typical ceiling baffle installation. The objects were distributed in seven rows of two objects each, with rows spaced 610 mm (24 in.) on center, and objects in each row spaced 305 mm (12 in.) apart.



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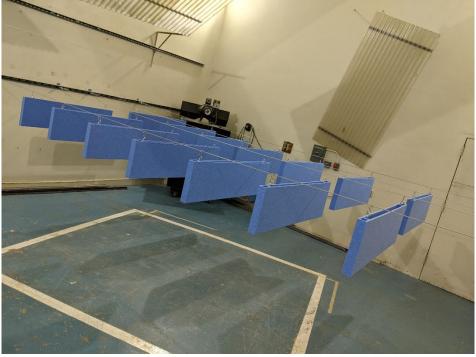


Figure 1 – Specimen mounted in test chamber



Figure 2 – Specimen mounted in test chamber



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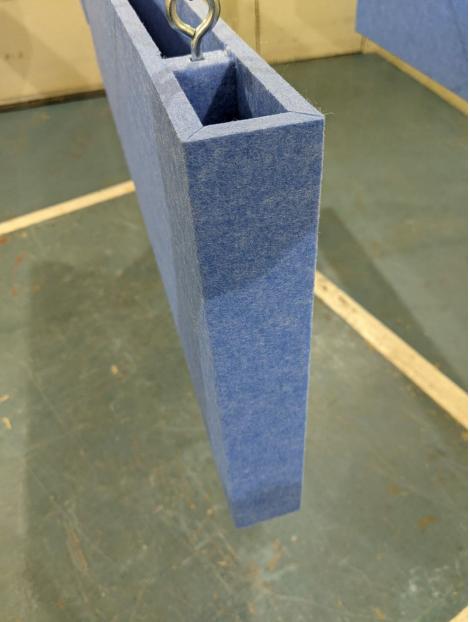


Figure 3 – Detail of specimen materials



(B) RIVERBANK ACOUSTICAL LABORATORIES IS ACCREDITED BY NVLAP (LAB CODE 100227-0) FOR ACOUSTICAL TESTING SERVICES IN ACCORDANCE WITH ISO/IEC 17025:2017 AND FOR THIS PROCEDURE. THIS REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY RAL, NVLAP, NIST, OR ANY AGENCY OF THE U.S. GOVERNMENT. THIS REPORT SHALL NOT BE MODIFIED WITHOUT THE WRITTEN APPROVAL OF RAL. THE RESULTS REPORTED APPLY ONLY TO THE SPECIFIC SAMPLE SUBMITTED FOR TESTING; RAL ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF ANY OTHER SAMPLE.

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TEST RESULTS

Note: There is currently no standardized method for calculating Absorption Coefficients from spaced object absorbers. The sound absorption performance of spaced object absorbers should not be compared directly with specimens tested as a single rectangular area (e.g. mounting types A, E, etc.).

1/3 Octave Center Frequency	Total A	Total Absorption		Absorption per Object		
(Hz)	(m ²)	(Sabins)	(m ² /Object)	(Sabins / Object)		
100	0.29	3.16	0.02	0.23		
** 125	0.72	7.75	0.05	0.55		
160	1.06	11.36	0.08	0.81		
200	1.59	17.07	0.11	1.22		
** 250	2.27	24.45	0.16	1.75		
315	3.13	33.64	0.22	2.40		
400	3.60	38.74	0.26	2.77		
** 500	4.67	50.30	0.33	3.59		
630	5.56	59.81	0.40	4.27		
800	6.46	69.50	0.46	4.96		
** 1000	7.47	80.42	0.53	5.74		
1250	8.53	91.79	0.61	6.56		
1600	9.29	100.03	0.66	7.15		
** 2000	9.82	105.67	0.70	7.55		
2500	10.26	110.42	0.73	7.89		
3150	10.13	109.05	0.72	7.79		
** 4000	10.05	108.13	0.72	7.72		
5000	10.09	108.58	0.72	7.76		
sted by Mare Le	inter Repo	rt by Kolth Kind	Approve	d by Eth		





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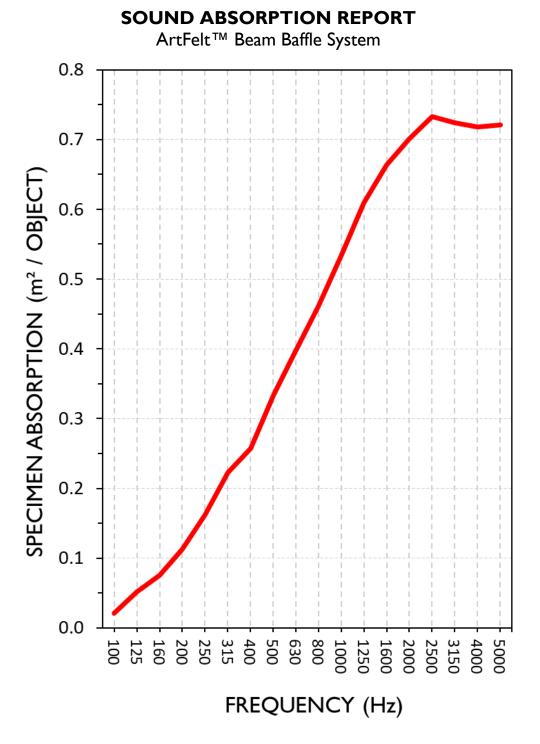
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APPENDIX A: Extended Frequency Range Data

Specimen: ArtFelt[™] Beam Baffle System (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	Total Absorption		Absorptio	ı per Object	
(Hz)	(m ²)	(Sabins)	(m ² /Object)	(Sabins / Object)	
31.5	0.88	9.46	0.06	0.68	
40	0.45	4.79	0.03	0.34	
50	-0.89	-9.54	-0.06	-0.68	
63	-0.48	-5.13	-0.03	-0.37	
80	1.00	10.76	0.07	0.77	
100	0.29	3.16	0.02	0.23	
125	0.72	7.75	0.05	0.55	
160	1.06	11.36	0.08	0.81	
200	1.59	17.07	0.11	1.22	
250	2.27	24.45	0.16	1.75	
315	3.13	33.64	0.22	2.40	
400	3.60	38.74	0.26	2.77	
500	4.67	50.30	0.33	3.59	
630	5.56	59.81	0.40	4.27	
800	6.46	69.50	0.46	4.96	
1000	7.47	80.42	0.53	5.74	
1250	8.53	91.79	0.61	6.56	
1600	9.29	100.03	0.66	7.15	
2000	9.82	105.67	0.70	7.55	
2500	10.26	110.42	0.73	7.89	
3150	10.13	109.05	0.72	7.79	
4000	10.05	108.13	0.72	7.72	
5000	10.09	108.58	0.72	7.76	
6300	10.17	109.43	0.73	7.82	
8000	9.98	107.42	0.71	7.67	
10000	9.94	107.05	0.71	7.65	
12500	9.55	102.77	0.68	7.34	

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APPENDIX B: Instruments of Traceability

Specimen: ArtFelt[™] Beam Baffle System (See Full Report)

Description	<u>Model</u>	Serial <u>Number</u>	Date of <u>Certification</u>	Calibration <u>Due</u>
System 1	Type 3160-A-042	3160- 106968	2022-07-12	2023-07-12
Bruel & Kjaer Mic And Preamp C	Type 4943-B-001	2311439	2022-05-02	2023-05-02
Bruel & Kjaer Pistonphone EXTECH Hygro 959	Type 4228 SD700	2781248 A099959	2022-07-22 2022-03-22	2023-07-22 2023-03-22

APPENDIX C: Revisions to Original Test Report

Specimen: ArtFelt[™] Beam Baffle System (See Full Report)

Date	Revision
2022-11-11	Original report issued

END



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SPONSOR: ARTIZIN™ Garland, TX

CONDUCTED: 2022-11-04

ON: ArtFeltTM Beam Baffle System (See Full Test Report for Details)

Appendix D to ASTM C423 Sound Absorption Test

Non-standard calculation of equivalent NRC Rating and Absorption Coefficients from spaced absorbers

At this time, ASTM C423 does not provide a standard method for determining absorption coefficients of spaced object absorbers. Tests of a set of sound absorbing objects spaced apart from each other will yield higher absorption rates than a specimen joined together as a single patch (A-Mount or E-Mount). For this reason it is unfair to provide NRC or absorption coefficient ratings for specimens that consist of a spaced set of absorbers. Despite this, the architectural industry has expressed great demand for a simple "single number" rating for these treatments. Likewise, acoustical consultants desire equivalent absorption coefficient data for use in acoustical modeling software. The following is an attempt to appease these demands until ASTM develops a standard method for calculation. Several alternate non-standard calculation methods are provided. Riverbank Acoustical Laboratories prefers method 1. Rating titles for these methods are prepended with the word "Apparent". These rating names and their associated acronyms are provided by RAL and shall not be misconstrued as originating from any current standard.

Method 1) Apparent Sound Absorption Coefficient calculated from extended test specimen envelope

The total sound absorption yielded by the specimen is divided by the surface area of the test surface covered by the suspended objects, including intermediate spaces, with additional added area to allow theoretical extrapolation for larger arrays. The object rigging covered 9.28 m² (99.9 ft²) of horizontal test surface area. With an extra 305 mm (12 in.) of width and 559 mm (22 in.) of length to account for the space between the tested array and what would be the next objects in a larger array, the total covered surface area comes to 12.0 m² (129 ft²). Apparent sound absorption coefficients, and subsequently the Apparent Noise Reduction Coefficient (A*NRC) and Apparent Sound Absorption Average (A*SAA) ratings, are calculated using this surface area based on the methods described in ASTM C423-17. This may be the most accurate method for comparing object arrays to ceiling tile products. The apparent sound absorption coefficient data can be assigned to a single horizontal surface or plane in acoustical modeling software for approximation of object array performance. Such approximations rely on the assumptions that object spacing is similar to that of the tested array across the entire surface, that gaps are negligibly small between adjacent rows of objects if the test specimen consists of a single row, and that the installation occurs over a perfectly reflective surface material.

Method 2) Apparent Sound Absorption Coefficient calculated from total exposed surface area of specimen The total sound absorption yielded by the specimen is divided by the total surface area of all exposed specimen faces (0.813 m² (8.75 ft²) per object x 14 objects = 11.4 m² (122 ft²) total surface area). In this case, the surface area of each object was based on the smallest rectangular prism fully encompassing the object. Apparent sound absorption coefficients, and subsequently the Apparent Noise Reduction Coefficient (A*NRC) and Apparent Sound Absorption Average (A*SAA) ratings, are calculated using this surface area based on the methods described in ASTM C423-17. This method shows the actual absorption occurring at the exposed surfaces but does not provide a fair comparison with materials mounted as a uniform patch (in A-mount or E-mount).

Report Referenced: <u>**RALTM-A22-486**</u> Page 1 of 3



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Appendix D (continued)

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Method 3) Apparent Sound Absorption Coefficient calculated from one face per object

The total sound absorption yielded by the specimen is divided by the surface area of one side of one large face for each object in the specimen $(0.335 \text{ m}^2 (3.60 \text{ ft}^2) \text{ per object x } 14 \text{ objects} = 4.69 \text{ m}^2 (50.5 \text{ ft}^2) \text{ total surface area}).$ Apparent sound absorption coefficients, and subsequently the Apparent Noise Reduction Coefficient (A*NRC) and Apparent Sound Absorption Average (A*SAA) ratings, are calculated using this surface area based on the methods described in ASTM C423-17. This method is favored by some material manufacturers since it yields very high NRC figures, but does not provide a fair comparison with other ceiling tile or wall panel products. Riverbank Acoustical Laboratories recommends that results obtained from this method be used for research and comparison purposes only; such results should not be used for marketed claims of product performance.

Method 4) Apparent Sound Absorption Coefficient calculated from specimen envelope without extension

The total sound absorption yielded by the specimen is divided by the rectangular test surface area covered by the suspended objects, including intermediate spaces. The object rigging covered 9.28 m² (99.9 ft²) of horizontal test surface area. Apparent sound absorption coefficients, and subsequently the Apparent Noise Reduction Coefficient (A*NRC) and Apparent Sound Absorption Average (A*SAA) ratings, are calculated using this surface area based on the methods described in ASTM C423-17. While similar in concept to Method 1, attempting to model any array larger than the tested specimen using these results would imply instances of adjacent objects with zero spacing scattered throughout the extrapolated array. Riverbank Acoustical Laboratories recommends that results obtained from this method be used for research and comparison purposes only; such results should not be used for marketed claims of product performance.



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Appendix D: Data Note: See full test

Note: See full test report for details of mounting position, spacing, and configuration, as these parameters greatly affect sound absorption performance.

			Method 1	Method 2	Method 3	Method 4
Specimen Absorption (ft ²)		Apparent	Apparent	Apparent	Apparent	
		Abs. Coefficient	Abs. Coefficient	Abs. Coefficient	Abs. Coefficient	
Freq.		~ • • •	From Total	From Total	From One Face	From
(Hz)	Sabins	Sabins /	Coverage Area (129 ft ²)	Exposed Surface Area	per Object (50.5 ft ²)	Unextended
		Object	(129 ft)	(122 ft^2)	(30.3 ft)	Envelope Area (99.9 ft ²)
31.5	9.46	0.68	0.07	0.08	0.19	0.09
40	4.79	0.34	0.04	0.04	0.10	0.05
50	-9.54	-0.68	-0.07	-0.08	-0.19	-0.10
63	-5.13	-0.37	-0.04	-0.04	-0.10	-0.05
80	10.76	0.77	0.08	0.09	0.21	0.11
100	3.16	0.23	0.02	0.03	0.06	0.03
125	7.75	0.55	0.06	0.06	0.15	0.08
160	11.36	0.81	0.09	0.09	0.23	0.11
200	17.07	1.22	0.13	0.14	0.34	0.17
250	24.45	1.75	0.19	0.20	0.48	0.24
315	33.64	2.40	0.26	0.27	0.67	0.34
400	38.74	2.77	0.30	0.32	0.77	0.39
500	50.30	3.59	0.39	0.41	1.00	0.50
630	59.81	4.27	0.46	0.49	1.19	0.60
800	69.50	4.96	0.54	0.57	1.38	0.70
1,000	80.42	5.74	0.62	0.66	1.59	0.81
1,250	91.79	6.56	0.71	0.75	1.82	0.92
1,600	100.03	7.15	0.78	0.82	1.98	1.00
2,000	105.67	7.55	0.82	0.86	2.09	1.06
2,500	110.42	7.89	0.86	0.90	2.19	1.11
3,150	109.05	7.79	0.85	0.89	2.16	1.09
4,000	108.13	7.72	0.84	0.88	2.14	1.08
5,000	108.58	7.76	0.84	0.89	2.15	1.09
6,300	109.43	7.82	0.85	0.89	2.17	1.10
8,000	107.42	7.67	0.83	0.88	2.13	1.08
10,000	107.05	7.65	0.83	0.87	2.12	1.07
12,500	102.77	7.34	0.80	0.84	2.04	1.03
	Ap	parent NRC:	0.50	0.55	1.30	0.65
Apparent SAA:		parent SAA:	0.51	0.53	1.29	0.65

Prepared by_ Keith Kimberling Test Engineer