TEST REPORT

for

Saaria Inc.
2139 Plantation Oak Drive
Orlando, FL 32824
Aijaz Ahmed / 954-575-8565

Sound Absorption Testing

ASTM C 423-22/ E795-16

On

Double Sided Five Layer Curtain Along with Vinyl Type G Mounting

Report Number: NGC 4023001

Assignment Number: G-1828

Test Date: 01/20/2023

Report Approval Date: 01/24/2023

Submitted by: _____
Anthony L. Rivers
Acoustical Test Engineer

Reviewed by: _____
Michael J. Rizzo
General Manager

Revision Summary:

Date	SUMMARY
Approval Date: 01/24/2023	Original issue date: 01/24/2023 Original NGCTS report: NGC 4023001

Report Number: NGC 4023001

Test Method: This test method conforms explicitly with the American Society for Testing and Materials Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method - Designation: C 423-22/ E795-16.

For the test, a Linear Averaging Mode is used as the Averaging Algorithm when measuring the Decay Times.

Specimen Description: Designated by client as: Double Sided Five Layer Curtain Along with Vinyl

The test specimen was observed to have the following characteristics:

Drape Identification: Double Sided Five Layer Curtain Along with Vinyl

All weights and dimension are averaged:

Measued dimensions: 2743.2 mm x 2438.4 mm (108 in. x 96 in.)

Weight: 4.81 kg/m^2 (0.98 PSF)

Unit Size: 1 Unit, 2743.2 mm x 2438.4 mm (108 in. x 96 in.)

Mounting: Type G-100 as per ASTM E795-16. For this testing, the metal G Mount frame was spaced 4 inches from the test chamber wall.

Total Sample Size: 72.00 Sq. Ft. (6.69 m^2)

Preconditioning: Minimum 24 hours at 70°F, 55% R.H

Test Results: The results of the tests are given on pages 4 and 5 of the report.

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Sound Absorption Test Data per C423 - 22

No. of test report: NGC4023001 Date of test: 1/20/2023

Temp. [°C]: 25.0 Humidity [%]: 50 Spec. Size [m^2]: 6.689

Frequency [Hz]		Absorption Coefficients a_s	Avg. Decay Rate Empty d (empty) [dB/s]	Avg. Decay Rate Specimen d (specimen) [dB/s]
100		0.38	8.71	12.12
125		0.32	9.68	12.55
160		0.55	7.74	12.61
200		0.59	7.88	13.16
250		0.65	7.75	13.51
315		0.81	7.00	14.25
400		0.94	6.70	15.05
500		0.97	6.43	15.06
630		0.97	6.25	14.93
800		0.96	5.91	14.48
1000		0.95	6.21	14.65
1250		0.95	6.60	15.08
1600		0.97	7.13	15.76
2000		1.02	7.99	17.12
2500		1.06	8.56	17.98
3150		1.10	8.45	18.28
4000		1.16	8.57	18.93
5000		1.27	8.06	19.35

Reverberation Room Volume: 282.1 m^3

Noise Reduction Coefficient NRC: 0.90 Avg. 250, 500, 1000, 2000 Hz : **0.896**

Sound Absorption Average SAA: 0.90 Avg. 200 - 2500 Hz: **0.903**

NOTE: Estimates of repeatability and reproducibility for sound absorption coefficients of a specimen are referenced in ASTM C423 - 22 test method.

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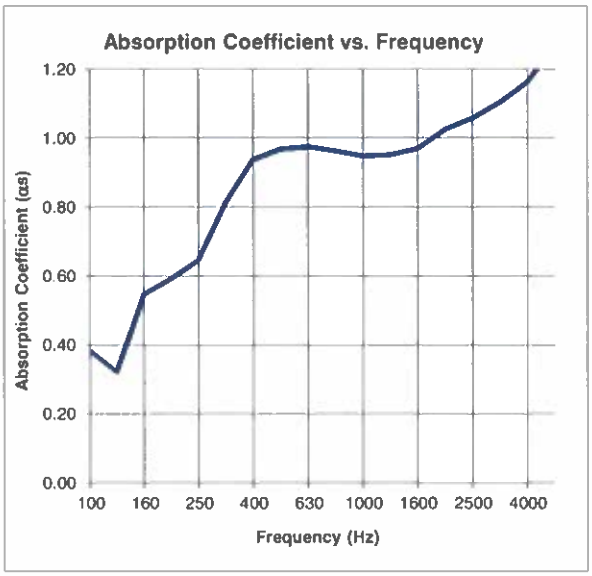
Sound Absorption Test Data per C423 - 22

Test report: NGC4023001
Date of test: 1/20/2023
Spec. Size [m^2]: 6.689
Room Vol.[m^3]: 282.1
Temp. [°C]: 25.0
Humidity [%]: 50

Noise Reduction Coefficient NRC:	**0.90**
Sound Absorption Average SAA:	**0.90**

Frequency [Hz]	Absorption Coefficients α_s
100	0.38
125	0.32
160	0.55
200	0.59
250	0.65
315	0.81
400	0.94
500	0.97
630	0.97
800	0.96
1000	0.95
1250	0.95
1600	0.97
2000	1.02
2500	1.06
3150	1.10
4000	1.16
5000	1.27



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