

Acoustical Testing Laboratory



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TEST REPORT

for

JACKSON ACOUSTICS

Sound Absorption Testing

ISO 354:2003

On

Binary Amplitude Diffuser (2D-A) Type A Mounting

Report Number: NGC 4024035

Assignment Number: G-1933

Test Date: 11/14/2024

Report Approval Date: 12/13/2024

Submitted by: _

Anthony J. Rivers

Acoustical Test Engineer

Reviewed by:

Michael J. Rizzo General Manager

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Revision Summary:

Date	SUMMARY	
Approval Date: 12/13/2024	Original issue date: 12/13/2024	
	Original NGCTS report: NGC 4024035	

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Report Number:

NGC 4024035

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: ISO 354:2003.

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

Decay Times.

Specimen Description:

Designated by client as: Binary Amplitude Diffuser (2D-A). This panel is a fabric acoustic panel with a binary diffuser affixed to the front. The diffuser features a distinct design of circular and oval holes, providing both sound absorption and diffusion.

The test specimen was observed to have the following characteristics:

Panel Identification: Binary Amplitude Diffuser (2D-A). This panel is a fabric acoustic panel with a binary diffuser affixed to the front. The diffuser features a distinct design of circular and oval holes, providing both sound absorption and diffusion.

All weights and dimension are averaged:

Measued dimensions:

Weight: 10.54 kg/m² (2.16 PSF)

Thickness: 59.18 mm (2.33 in.)

Mounting:

Type A as per ISO 354:2003

Total Sample Size:

109.88 Sq. Ft. (10.21 m²)

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 ISO 354:2003

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No. of test report

NGC4024035

Date of test:

11/14/2024

Temp [°C]:

25.0

Humidity [%]: 50

Spec. Size [m2]: 10.210

Frequency	Absorption	Avg. Decay Rate	
	Coefficients as	Empty d (empty)	Specimen d (specimen)
[Hz]		[dB/s]	[dB/s]
100	0.32	8.54	12.83
125	0.34	9.81	14.38
160	0.32	8.33	12.64
200	0.67	7.69	16.86
250	0.65	7.90	16.81
315	0.84	7.35	18.79
400	0.89	6,91	18.96
500	0.84	6.74	18.22
630	0.87	6.75	18.54
800	0.74	6.56	16.57
1000	0.71	6.75	16.47
1250	0.66	7.39	16.32
1600	0.64	7.71	16.36
2000	0.53	8.83	16.08
2500	0.51	9.14	16.10
3150	0.48	9.62	16.16
4000	0.42	9.53	15.18
5000	0.45	9.40	15.56

Reverberation Room Volume:

282.1

m3

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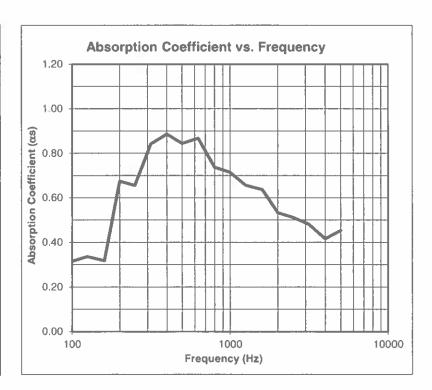
Sound Absorption Test Data per ISO 354:2003

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Test report: NGC4024035 Date of test: 11/14/2024

Spec. Size (n 10.21 Room Vol.[m 282.1 Temp. [°C]: 25.0 Humidity [%]: 50

Frequency	Absorption Coefficients
[Hz]	α,
100	0.32
125	0.34
160	0.32
200	0.67
250	0.65
315	0.84
400	0.89
500	0.84
630	0.87
800	0.74
1000	0.71
1250	0.66
1600	0.64
2000	0.53
2500	0.51
3150	0.48
4000	0.42
5000	0.45



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