



Title: Sound Absorption Test Results

Product: 1" Poly Max

Application: Wall and Ceiling

Testing Standard: ASTM C423 A-Mount

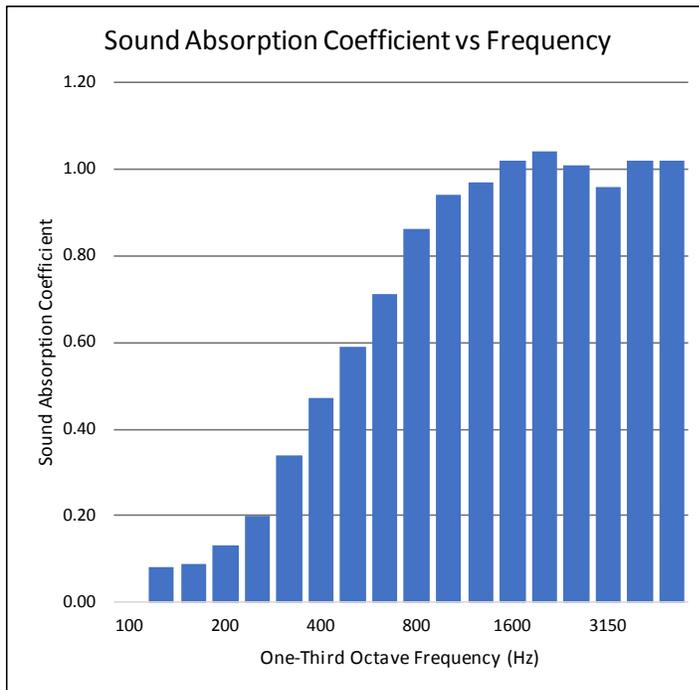
Test Date: 10/26/2011

Why this test: This test evaluates a products efficiency of absorbing sound at multiple frequencies. The test simulates the product's acoustical performance with a direct installation on a wall or ceiling.

Test Result Summary: NRC - 0.70; SAA - 0.69

NRC	SAA
0.70	0.69

Frequency (Hz)	Absorption Coefficient
100	0.00
125	0.08
160	0.09
200	0.13
250	0.20
315	0.34
400	0.47
500	0.59
630	0.71
800	0.86
1000	0.94
1250	0.97
1600	1.02
2000	1.04
2500	1.01
3150	0.96
4000	1.02
5000	1.02



Test ID: TCT008105P-1

ASI TEST RESULT DISCLAIMER

ASI makes every effort to ensure the accuracy and reliability of the information provided. Laboratory testing is conducted by independent testing organizations. ASI does not guarantee that field tests or independent tests will not vary.

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DATE: October 26, 2011

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**SOUND ABSORPTION TESTING CONDUCTED ON
 1" SYNTHETIC FIBERBOARD**

Prepared for:
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The test results contained in this report pertain only to the samples submitted for testing and not necessarily to all similar products.

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Noise Reduction Coefficient (ASTM C423-09)

INTRODUCTION:

This report presents the results of sound absorption testing. The test units were submitted by Mr. Mark Klein. This work was completed on October 21, 2011.

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TEST RESULTS SUMMARY:

<i>Noise Reduction Coefficient (NRC)</i>					Test Results		
Test #	Panel Identification	Mounting Type	Weight (lbs)	Weight (psf)	NRC	SAA	--
1-1	1" Synthetic Fiberboard	Type A	45.8	0.6	0.70	0.69	--

See 'TEST DATA' section for detailed results.

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SPECIMEN DESCRIPTION: (Also see "Test Results")

The specimens were identified by Acoustical Surfaces Inc. The specimens were identified as '1" Synthetic Fiberboard'. The panels measured 23-3/4" x 47-7/8" x 1" and weighed 5-lbs per panel.

TEST PROCEDURE**Sound Absorption Test**

ASTM C 423-09," Sound Absorption and Sound Absorption Coefficient by the Reverberation Room Method", was followed in every respect. The panels were tested in Type A mount.

NRC was calculated by rounding the sound absorption coefficients for 250, 500, 1000 and 2000 Hz to the nearest 0.05. SAA was calculated by rounding the sound absorption coefficients for the twelve frequencies from 200 Hz to 2500 Hz to the nearest 0.01.

TEST EQUIPMENT:

<u>Manufacturer</u>	<u>Model Description</u>	<u>S/N</u>	
NI-ATS	Sound Measuring System	NI-92374-ATS	TCT102709.2
Norsonic	Rotating Microphone Boom	NOR265	
BSWA (Source Rm)	Pressure Condenser Microphone	MP253	450007
GRAS (Term Rm)	Pressure Condenser Microphone	40AD	19220-1244

REMARKS:

The test sample will be retained for a period of **10-days** and then discarded unless notified by the client.

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TEST RESULTS:

SOUND ABSORPTION
ASTM C423

General Information

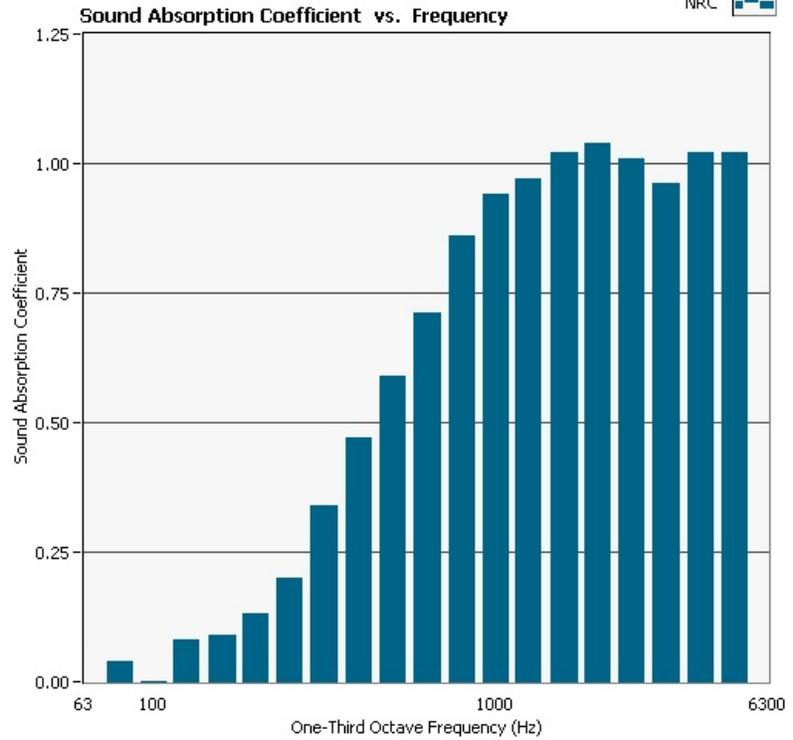
Project No:	ASI-8105-1
Customer:	Acoustical Surfaces Inc.
Test Date:	10-21-2011
Specimen ID:	Test 1
Specimen Description:	1" Synthetic Fiberboard Mounting Type A
Specimen Dimensions - Area:	143.25" W x 73.62" H - 73.24 ft ²
Operator:	JMW

Data Table

	absorption empty (m ²)	absorption * sample (m ²)	Absorption Coefficient
80	5.37	0.30	0.04
100	5.81	0.00	0.00
125	3.45	0.57	0.08
160	3.45	0.64	0.09
200	3.96	0.86	0.13
250	3.74	1.34	0.20
315	3.59	2.32	0.34
400	3.77	3.18	0.47
500	4.24	4.03	0.59
630	4.46	4.86	0.71
800	4.76	5.83	0.86
1000	4.97	6.40	0.94
1250	5.57	6.63	0.97
1600	6.29	6.95	1.02
2000	7.33	7.05	1.04
2500	8.25	6.88	1.01
3150	9.59	6.55	0.96
4000	11.41	6.97	1.02
5000	13.93	6.91	1.02

Room Conditions

Temperature	21.5 °C
R.H.	43 %
ATM	979 hPa



NRC

0.70

SAA

0.69

* based on an extended plane area of 73.24 ft²