

Title: Sound Absorption Test Results

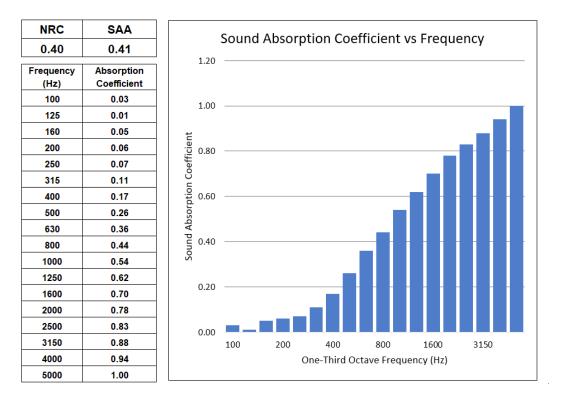
Product: 1/2" Poly Max Acoustical Panel

Application: Wall or Ceiling

Testing Standard: ASTM C423 A-Mount

Test Date: 02/04/2010

Why this test: This test evaluates a product's efficiency at absorbing sound at multiple frequencies. The test simulates the product's acoustical performance when attached directly to a wall or ceiling. Test Result Summary: NRC - 0.40; SAA - 0.41



Test ID: 30160 10-2185-2

ASI TEST RESULT DISCLAIMER

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Failure Analysis

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SOUND ABSORPTION TESTING OF WHITE POLYESTER PANELS

Prepared for:

Rendered by Manufacturer and Released to: ASI 123 Columbia Court N. Chaska, MN 55318

Client Reference Number: PrePay

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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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Materials Technology

Stork Twin City Testing Corporation

JOB NUMBER: 30160 10-2185-2

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SOUND ABSORPTION / NOISE REDUCTION COEFFICIENT (ASTM C423)

INTRODUCTION:

This report presents the results of sound absorption tests conducted on a sample of polyester boards. The testing was authorized by Manufacturer. The testing and data analysis were completed on February 4, 2010.

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SUMMARY OF RESULTS:

NOISE REDUCTION COEFFICIENT (NRC)

Sound Abs	orption Testing	Test Results				
Test #	Sample Identification	Thickness (in)	Total Weight (lbs)	Weight (psf)	NRC	SAA
2	1/2" Polyester Panels	0.5	28.5	0.4	0.40	0.41

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SAMPLE IDENTIFICATION:

Manufacturer :	Rendered by Manufacturer and released to: ASI
Sample #2, Model # :	¹ / ₂ " Polyester Panel
Panel Size :	24" x 48" x ½"
Panel Weight :	3.2-lbs (0.4-psf)
Quantity of Panels:	9
Area tested :	$72-\text{ft}^2$
Specimen Description :	The material was in panel form.

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TEST METHOD:

Sound Absorption Test

ASTM C 423-09," Sound Absorption and Sound Absorption Coefficient by the Reverberation Room Method", was followed in every respect. The samples were tested in a Type A mounting (on the floor).

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:

Manufacturer	Model	Description	<u>S/N</u>
Norwegian Electronics	NE830	Real Time Analyzer	10722
Brüel & Kjær	3923	Rotating Microphone Boom	815424
Norsonic (Source Rm)	1230	Pressure Condenser Microphone	26361
Brüel & Kjær (Term Rm)	4192	Pressure Condenser Microphone	2360314

REMARKS:

The test sample will be retained for a period of **15-days** and then discarded unless notified by the client.

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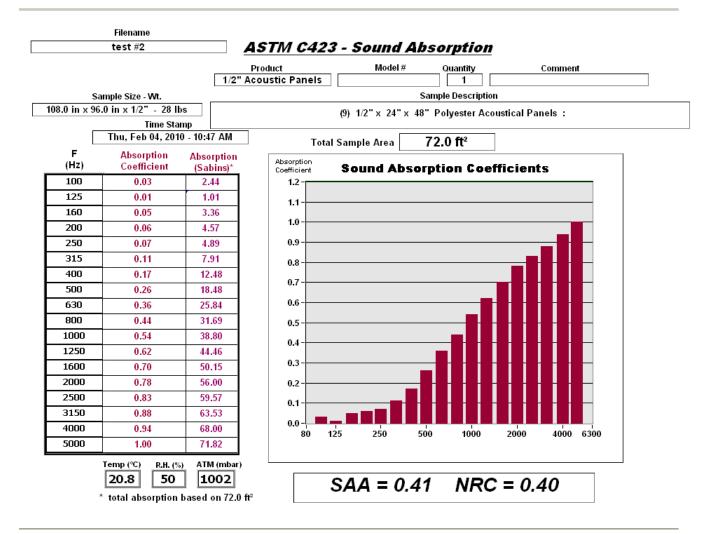


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TEST DATA:



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