

Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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We Identify and S.T.O.P. Your Noise Problems

STORK

Twin City Testing Corporation

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DATE: September 26, 2000

STOCK / TWIN CITY TESTING CORPORATION 662 Cromwell Avenue St. Paul, Minnesota 55114

SOUND ABSORPTION TESTING CONDUCTED ON SIX BAFFLES CONSISTING OF 1" THICK PEPP

Prepared for: ACOUSTICAL SURFACES, INC

Attn: Mr. Steve Anderson 123 Columbia Court North, Suite 201 Chaska, MN 55318

Client Purchase Order Number 00012348

Test Conducted By:

Matthew N. Botz Project Engineer

Product Testing Department

(651) 659-7353

Reviewed By:

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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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SOUND ABSORPTION - ASTM C423-99a

INTRODUCTION:

This report presents the results of Sound Absorption testing conducted on six baffles consisting of a 1" thick PEPP material submitted by Acoustical Surfaces. This work was requested by Mr. Mike Nixon on September 6, 2000 with the testing conducted on September 14, 2000.

This report must not be reproduced except in its entirety with the approval of Stork / Twin City Testing Corporation. The data in this report relates only to the item tested.

Stork / Twin City Testing Corporation has been accredited by the U.S. Department of Commerce and the National Institute of Standards and Technology (NIST, formerly NBS) under their National Voluntary Laboratory Accreditation Program (NVLAP) for conducting this test procedure. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEST RESULTS SUMMARY:

The Sabins / Baffle average of the PEPP material was **3.55** at the NRC frequencies of 250, 500, 1000 and 2000 Hertz. A detailed data sheet is provided below under "TEST RESULTS".

TEST PROCEDURE:

ASTM: C423-99a, "Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method" was followed in every respect. The baffles were suspended above the floor of the reverberation chamber on cables. The full mounting and configuration details are provided under "TEST RESULTS" below.

TEST EQUIPMENT:

<u>Model</u>	Serial #	Description
NE830	11511	Real Time Spectrum Analyzer
3923	815424	Rotating Microphone Boom
2560	1032	Pressure Condenser Microphone
V20 CIO	A942CZGZE580	Custom Designed Software
	NE830 3923 2560	NE830 11511 3923 815424 2560 1032

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TEST RESULTS:

Manufacturer: Acoustical Surfaces, Inc

Type: Baffles – 1" layer PEPP. Dimensions (W x H x D): 2' x 4' x 1"

Weight: 12 lbs. (0.25 psf)

Surface Area: 8.0 ft²

Total Surface Area: 96.0 ft² – consisting of 6 baffles – (2 sides)

Mounting Type: 3 specimens each, suspended on 2 cables – 16" between specimens –

41" from floor to specimens – 45" between cables

Test No. 18 0-0730.9

Frequency Hz	Absorption Coefficients)	
100	1.61	
125	0.82	
160	0.93	
200	1.43	
250	2.18	
315	2.31	
400	2.74	
500	2.79	
630	2.90	
800	2.96	
1000	3.03	
1250	3.25	
1600	4.15	
2000	6.29	
2500	8.64	
3150	9.18	
4000	8.36	
5000	9.46	

Sabins / Baffle Average (NRC Frequencies) = 3.55 The NRC frequencies are at 250, 500, 1000, and 2000 Hz

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