



**Title: Sound Absorption Test Results**

**Product: 1" Sound Silencer**

Application: Wall or Ceiling

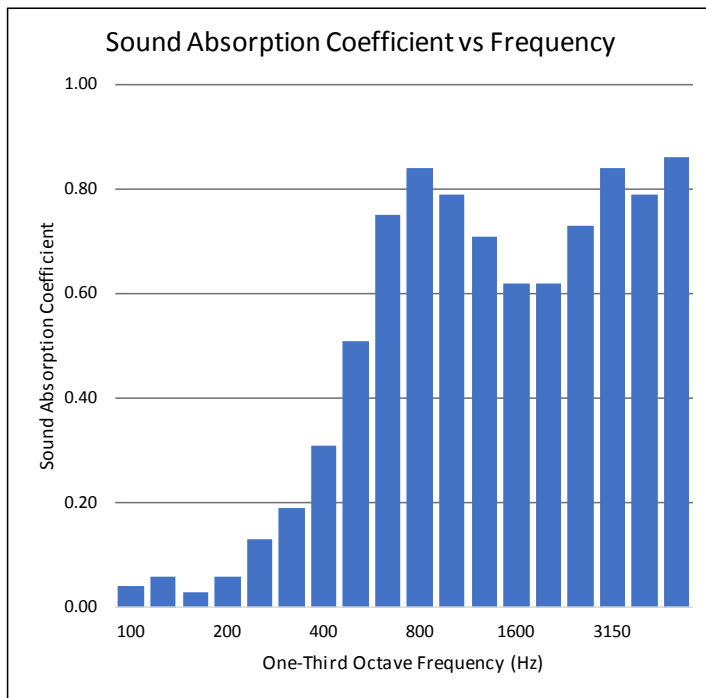
Testing Standard: ASTM C423 A-Mount on 1x2

Test Date: 10/30/2002

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 - 0.50; SAA - 0.52

NRC	SAA
0.50	0.52
Frequency (Hz)	Absorption Coefficient
100	0.04
125	0.06
160	0.03
200	0.06
250	0.13
315	0.19
400	0.31
500	0.51
630	0.75
800	0.84
1000	0.79
1250	0.71
1600	0.62
2000	0.62
2500	0.73
3150	0.84
4000	0.79
5000	0.86



**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.

Filename

Test#6-1 PEPP

### ASTM C423 - Sound Absorption

Project Folder

Client

Product

Model #

Quantity

Comment

Acoustical Surfaces

Absorption Material

1

1" PEPP, on 1x2

Sample Size - Wt

Sample Description #

95.0 in x 95.5 in x - 0 lbs.

8 Panels - 1" PEPP Arranged in 2 x 4 Fashion : on 1x2 :

Time Stamp

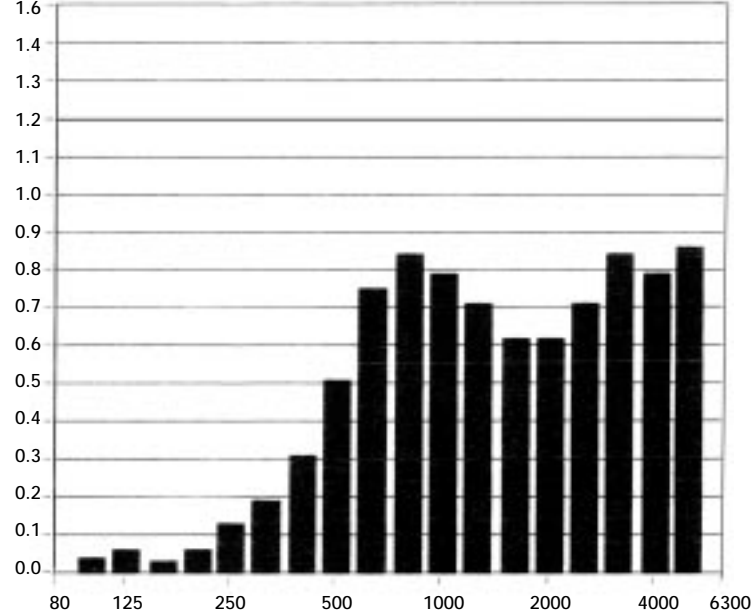
Wed. Oct. 30, 2002 - 10:47 AM

Total Sample Area 63.0 ft<sup>2</sup>

F (Hz)	Absorption Coefficient	Absorption (Sabins)*
100	0.04	2.53
125	0.06	3.81
160	0.03	2.08
200	0.06	3.97
250	0.13	8.21
315	0.19	12.01
400	0.31	19.79
500	0.51	32.27
630	0.75	47.46
800	0.84	53.16
1000	0.79	49.91
1250	0.71	44.77
1600	0.62	38.81
2000	0.62	38.86
2500	0.71	44.78
3150	0.84	52.91
4000	0.79	49.54
5000	0.86	53.99

Absorption Coefficient

#### Sound Absorption Coefficients



Temp (\*C)

R.H. (%)

ATM (mbar)

22.0

63

990

\*Total absorption based on 63.0 ft<sup>2</sup>

$$SAA = 0.52 \quad NRC = 0.50$$