



**Title: Sound Absorption Test Results**

**Product: 5/8" Envirocoustic Wood Wool with 1" CFAB Acoustical Backer**

Application: Ceiling

Testing Standard: ASTM C423 E400 Mount

Test Date: 11/04/2019

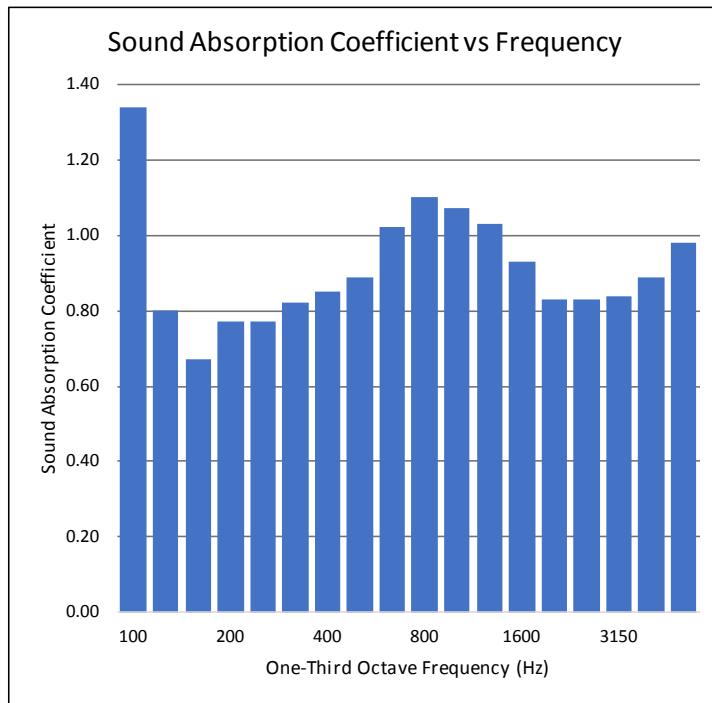
Why this test: *This test evaluates a products efficiency of absorbing sound at multiple frequencies. The test simulates the product installation in a ceiling with a plenum above, i.e. ceiling tile installed into ceiling grid.*

Test Result Summary: NRC - 0.90; SAA - 0.91

NRC	SAA
0.90	0.91

Frequency (Hz)	Absorption Coefficient
100	1.34
125	0.80
160	0.67
200	0.77
250	0.77
315	0.82
400	0.85
500	0.89
630	1.02
800	1.10
1000	1.07
1250	1.03
1600	0.93
2000	0.83
2500	0.83
3150	0.84
4000	0.89
5000	0.98



Test ID: OL19-1103

**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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# Sound absorption coefficient according to ASTM C423 - 17

Measurement of sound absorption coefficient in a reverberation room

Client: ASI Date of test: 11/4/2019  
 Description: Envirocoustic Wood Wool 5/8" Panels  
 E400 Mounting  
 Weight: 101.3 lbs. (45.95 kg) Backer 21.15 lbs. (9.59 kg)

Object: 8 - 2'x4' & 2 - 1'x4' Envirocoustic Wood Wool 5/8" Panels   
 1" 3# CFAB Backing attached to underside

Empty reverberation room:  
 Relative humidity: 59.0 %  
 Temperature: 19.0 °C  
 Barometric pressure: 762.0 mbar

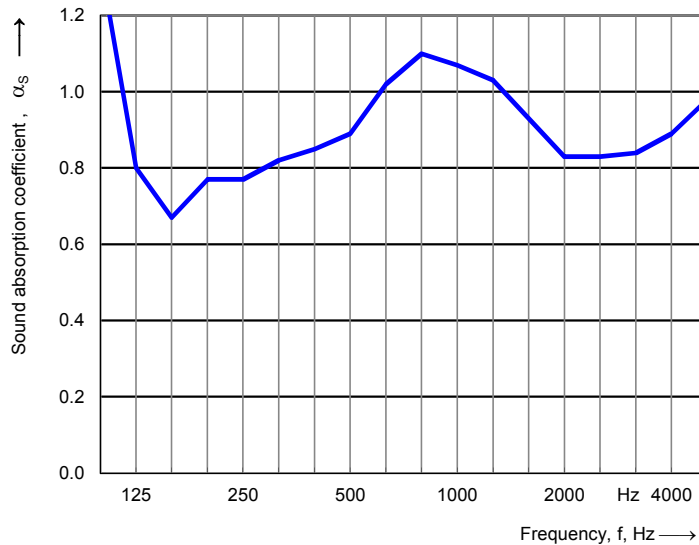
Reverberation room with object:  
 Relative humidity: 59.0 %  
 Temperature: 19.0 °C  
 Barometric pressure: 762.0 mbar

Surface area: 6.69 m<sup>2</sup>  
 Room volume: 234.4 m<sup>3</sup>



E400 test with 5/8" Envirocoustic Wood Wool (1" backing)

Frequency f [Hz]	$\alpha_s$ 1/3 octave
100	1.34
125	0.80
160	0.67
200	0.77
250	0.77
315	0.82
400	0.85
500	0.89
630	1.02
800	1.10
1000	1.07
1250	1.03
1600	0.93
2000	0.83
2500	0.83
3150	0.84
4000	0.89
5000	0.98



Sound Absorption Average SAA:	0.91
Noise Reduction Coefficient NRC:	0.90

Name of test institute: Orfield Labs  
 No. of test report: OL19-1103

Date: 11/4/2019

Signature: