



Title: Sound Absorption Test Results

Product: 5/8" Envirocoustic Wood Wool

Application: Ceiling

Testing Standard: ASTM C423 E400 Mount

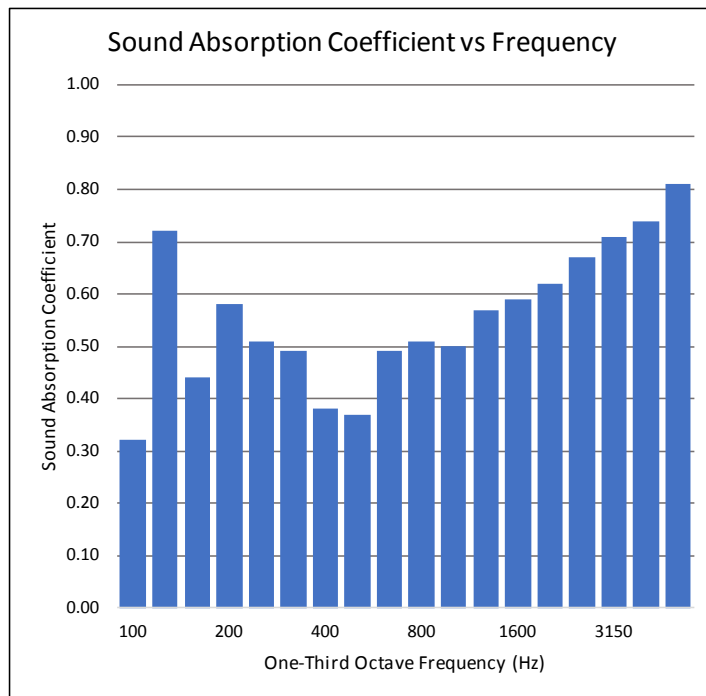
Test Date: 11/05/2019

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 - 0.50; SAA - 0.52

NRC	SAA
0.50	0.52

Frequency (Hz)	Absorption Coefficient
100	0.32
125	0.72
160	0.44
200	0.58
250	0.51
315	0.49
400	0.38
500	0.37
630	0.49
800	0.51
1000	0.50
1250	0.57
1600	0.59
2000	0.62
2500	0.67
3150	0.71
4000	0.74
5000	0.81



Test ID: OL19-1105

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

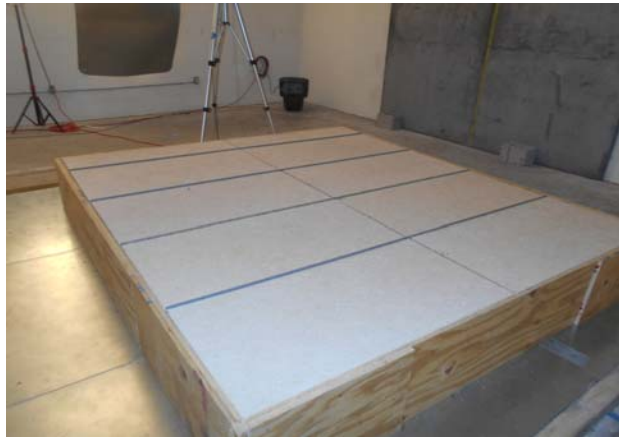
Measurement of sound absorption coefficient in a reverberation room

Client: ASI Date of test: 11/5/2019
 Description: Enviroacoustic Wood Wool 5/8" E400 Mounting
 Weight: 101.3 lbs. (45.95 kg.)
 Object: 8 - 2'x4' & 2 - 1'x4' Enviroacoustic Wood Wool 5/8" Panels
 With No Backer

Empty reverberation room:
 Relative humidity: 58.0 %
 Temperature: 20.0 °C
 Barometric pressure: 765.0 mbar

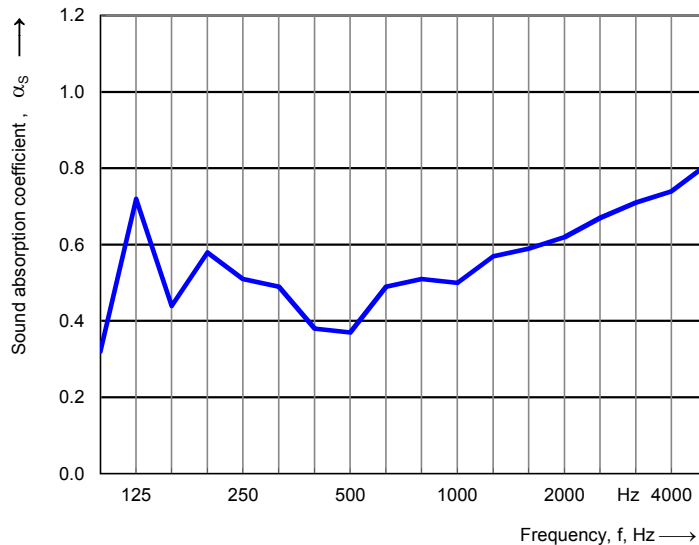
Reverberation room with object:
 Relative humidity: 58.0 %
 Temperature: 20.0 °C
 Barometric pressure: 765.0 mbar

Surface area: 6.69 m²
 Room volume: 234.4 m³



E400 test with Enviroacoustic Wood Wool (no backing)

Frequency f [Hz]	α_s 1/3 octave
100	0.32
125	0.72
160	0.44
200	0.58
250	0.51
315	0.49
400	0.38
500	0.37
630	0.49
800	0.51
1000	0.50
1250	0.57
1600	0.59
2000	0.62
2500	0.67
3150	0.71
4000	0.74
5000	0.81



Sound Absorption Average SAA: 0.52
 Noise Reduction Coefficient NRC: 0.50

Name of test institute: Orfield Labs
 No. of test report: OL19-1105

Date: 11/5/2019

Signature: