Title: Sound Absorption Test Results

Product: 5/8" Envirocoustic Wood Wool with 2" CFAB Acoustical Backer

Application: Ceiling

Testing Standard: ASTM C423 E400 Mount

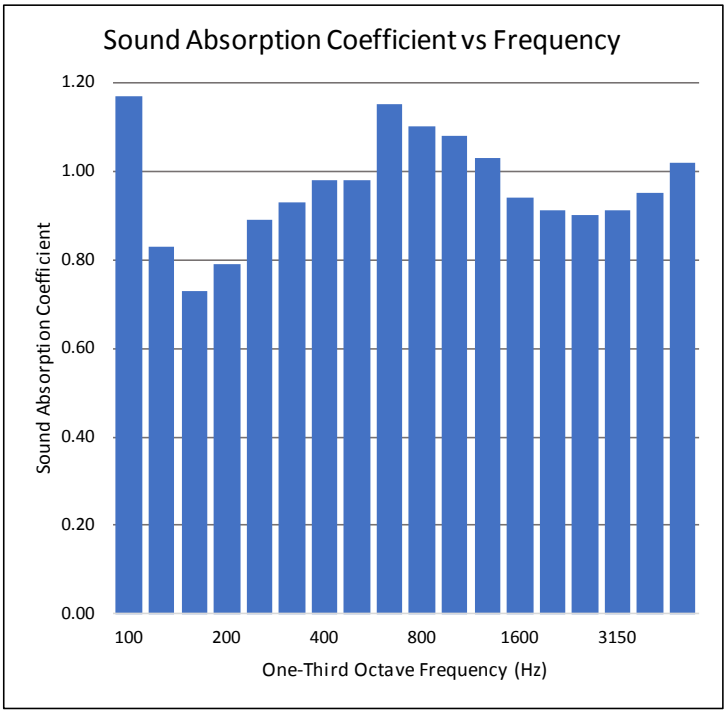
Test Date: 11/01/2019

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 - 0.95; SAA - 0.97

NRC	SAA
0.95	0.97

Frequency (Hz)	Absorption Coefficient
100	1.17
125	0.83
160	0.73
200	0.79
250	0.89
315	0.93
400	0.98
500	0.98
630	1.15
800	1.10
1000	1.08
1250	1.03
1600	0.94
2000	0.91
2500	0.90
3150	0.91
4000	0.95
5000	1.02



Test ID: OL19-1102

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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:	11/1/2019
Description:	Envirocoustic Wood Wool 5/8" Panels E400 Mounting Weight: 101.3 lbs. (45.95 kg) Backer 35.7 lbs. (16.19 kg)		
Object:	8 - 2'x4' & 2 - 1'x4' Envirocoustic Wood Wool 5/8" Panels 2" 3# CFAB Backing attached to underside		

Empty reverberation room:		Reverberation room with object:	
Relative humidity:	55.0 %	Relative humidity:	55.0 %
Temperature:	19.0 °C	Temperature:	19.0 °C
Barometric pressure:	763.0 mbar	Barometric pressure:	763.0 mbar
Surface area:	6.69 m²		
Room volume:	234.4 m³		

E400 test with 5/8" Envirocoustic Wood Wool (2" backing)

Frequency f [Hz]	α_s 1/3 octave
100	1.17
125	0.83
160	0.73
200	0.79
250	0.89
315	0.93
400	0.98
500	0.98
630	1.15
800	1.10
1000	1.08
1250	1.03
1600	0.94
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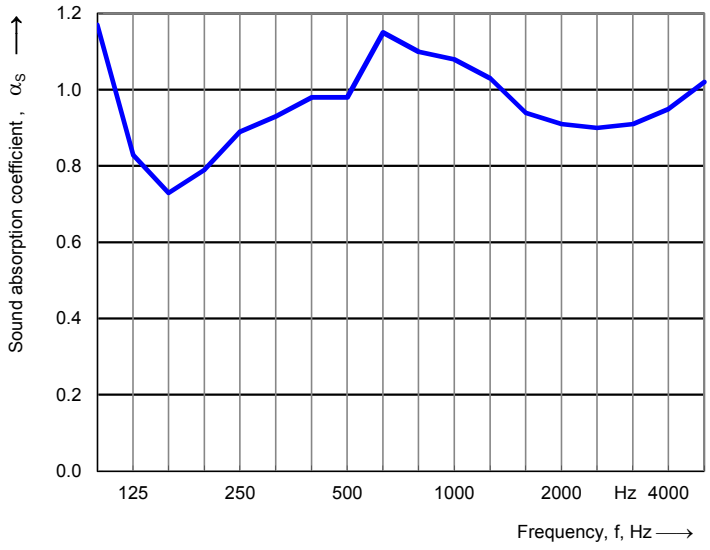

Sound Absorption Average SAA:	0.97
Noise Reduction Coefficient NRC:	0.95

Name of test institute:	Orfield Labs
No. of test report:	OL19-1102
Date: 11/1/2019	Signature: