



Title: Sound Absorption Test Results

Product: Doweled Grille 3/4" x 3-1/4" x 48" Rails 2" O.C. with 1" Acoustical Backer

Application: Ceiling

Testing Standard: ASTM C423 E400-Mount

Test Date: 07/30/2019

Why this test: This test evaluates a products efficiency of absorbing sound at multiple frequencies. The test simulates the product's acoustical performance with an installation on a ceiling grid.

Test Result Summary: NRC - 0.95; SAA - 0.93

Test ID: OL19-0723

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
Description: 3-1/4" Deep Open-Grid Panels in E400 Mounting with 1" Backing
Doweled Grille 3/4" x 3-1/4" x 48" Rails 2" O.C.
Weight: 242.35 lbs. (109.93 kg) Backing: 14.95 lbs. (6.78 kg)

Date of test: 7/30/2019

Object: 8 - 2'x4' & 2 - 1'x4' ASI Open-Grid panels
With 1" Backer

Empty reverberation room:

Relative humidity: 45.0 %
Temperature: 21.0 °C
Barometric pressure: 760.0 mbar

Reverberation room with object:

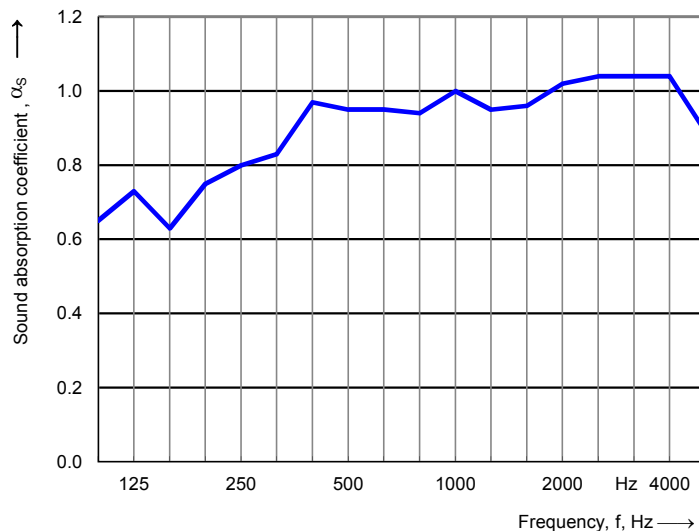
Relative humidity: 45.0 %
Temperature: 21.0 °C
Barometric pressure: 760.0 mbar

Surface area: 6.69 m²
Room volume: 234.4 m³



E400 test with Grille (1" backing)

Frequency f [Hz]	α_s 1/3 octave
100	0.65
125	0.73
160	0.63
200	0.75
250	0.80
315	0.83
400	0.97
500	0.95
630	0.95
800	0.94
1000	1.00
1250	0.95
1600	0.96
2000	1.02
2500	1.04
3150	1.04
4000	1.04
5000	0.89



Sound Absorption Average SAA: 0.93
Noise Reduction Coefficient NRC: 0.95

Name of test institute: Orfield Labs
No. of test report: OL19-0723

Date: 8/2/2019

Signature:

Antony R. Bell
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SIGNATURE