



Title: Sound Absorption Test Results

**Product: Fusion Perforated Ceiling Panel -
8mm dia. x 16mm o.c. spacing - Square Pattern - 2" Acoustical Backer**

Application: Ceiling

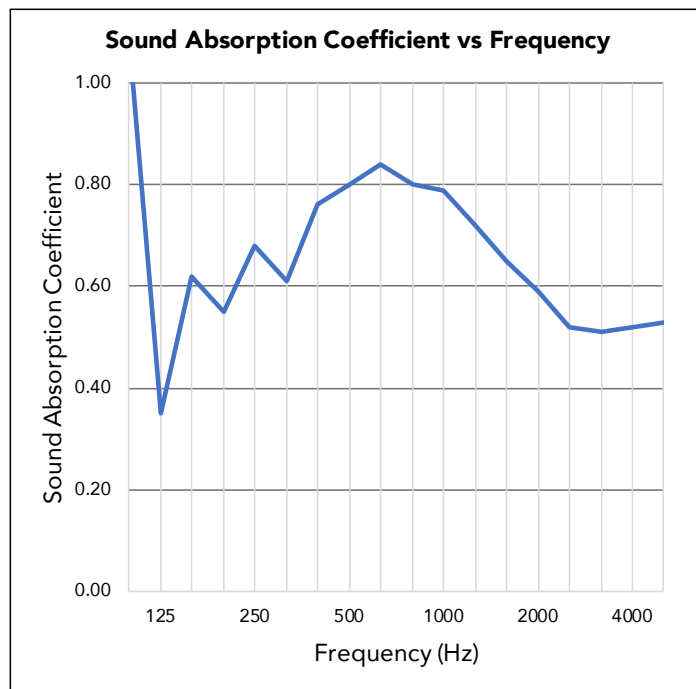
Testing Standard: ASTM C423-17 (Type E400 Mount)

Test Date: 1/20/2021

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 lay-in ceiling installation.

Test Result Summary: NRC - 0.70; SAA - 0.69

NRC	SAA
0.70	0.69
Frequency (Hz)	Absorption Coefficient
100	1.10
125	0.35
160	0.62
200	0.55
250	0.68
315	0.61
400	0.76
500	0.80
630	0.84
800	0.80
1000	0.79
1250	0.72
1600	0.65
2000	0.59
2500	0.52
3150	0.51
4000	0.52
5000	0.53



Test ID: OL21-0118

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: 1/20/2021

Description: Wood Veneer Perforated Ceiling and Wall Panels
8mm dia. x 16mm o. c. spacing - Square Pattern
with SoundTex scrim and 2-inch Acoustical Backer

Object: 8' x 9' C423 Sample in E400 Mounting
167.4 lbs. + 27.85 lbs. (approximately 16.7% Open Area)

Empty reverberation room:

Relative humidity: 58.0 %
Temperature: 20.0 °C
Barometric pressure: 759.0 mbar

Reverberation room with object:

Relative humidity: 58.0 %
Temperature: 20.0 °C
Barometric pressure: 759.0 mbar

Surface area: 6.69 m²
Room volume: 234.4 m³



Testing

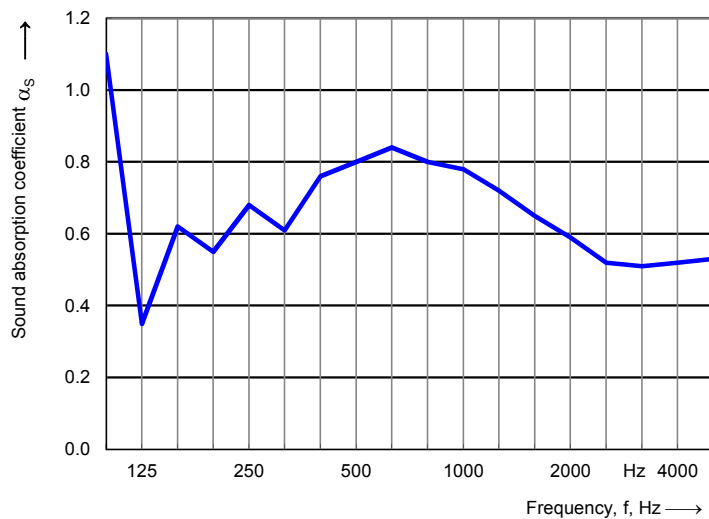
For the scope of accreditation under
NVLAP code 200248-0

Frequency f [Hz]	α_s 1/3 octave
100	1.10
125	0.35
160	0.62
200	0.55
250	0.68
315	0.61
400	0.76
500	0.80
630	0.84
800	0.80
1000	0.78
1250	0.72
1600	0.65
2000	0.59
2500	0.52
3150	0.51
4000	0.52
5000	0.53



E400 test with 2-inch backing

Laboratory Equipment & Procedures available upon request



Sound Absorption Average SAA: 0.69
Noise Reduction Coefficient NRC: 0.70

Name of test institute: Orfield Labs

No. of test report: OL21-0118

Date: 2/22/2021

Signature:

ELECTRONICALLY
REPRODUCED
ORIGINAL FILE