



## Title: Sound Absorption Test Results

**Product: Grille with Backer 3/4" x 1-3/8"; rails spaced 1-1/2" o.c. - Solid with 1" Acoustical Backer**

Application: Ceiling or Wall

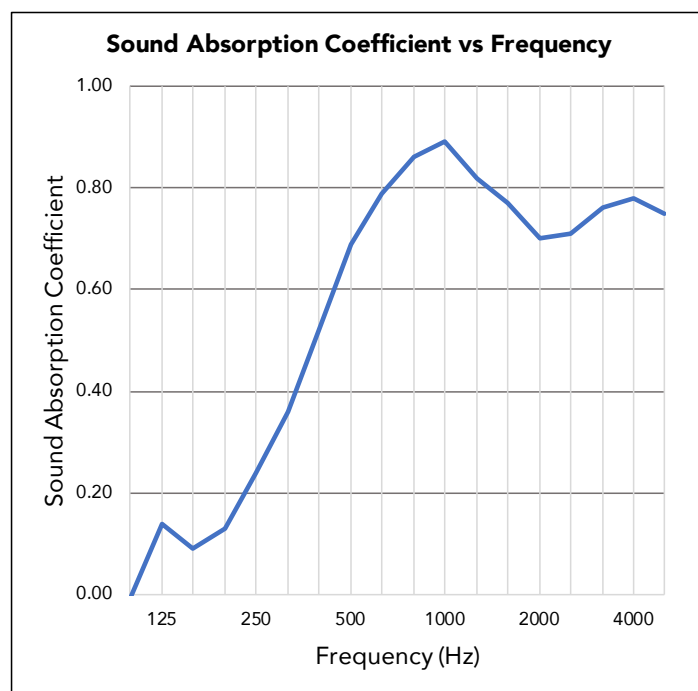
Testing Standard: ASTM C423-17 (Type C25 Mount)

Test Date: 1/27/2021

*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 ceiling or wall installation using a furring strips with an acoustical backer.

Test Result Summary: NRC - 0.65; SAA - 0.62

NRC	SAA
0.65	0.62
Frequency (Hz)	Absorption Coefficient
100	-0.01
125	0.14
160	0.09
200	0.13
250	0.24
315	0.36
400	0.52
500	0.69
630	0.79
800	0.86
1000	0.89
1250	0.82
1600	0.77
2000	0.70
2500	0.71
3150	0.76
4000	0.78
5000	0.75



Test ID: OL21-0136

### 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: 1/27/2021

Description: Grille Backered  
3/4" x 1-3/8"; 1-1/2" o. c.  
with 1-inch Acoustical Backer

Object: 8' x 9' C423 Sample in C25 Mounting  
140.8 lbs. + 19.85 lbs. (approximately 49% Open Area)

Empty reverberation room:

Relative humidity: 58.0 %  
Temperature: 20.0 °C  
Barometric pressure: 767.0 mbar

Reverberation room with object:

Relative humidity: 58.0 %  
Temperature: 20.0 °C  
Barometric pressure: 767.0 mbar

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



### Testing

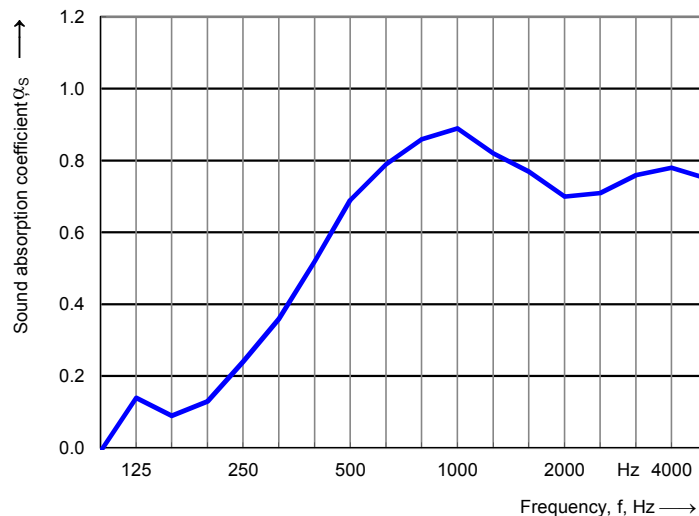
For the scope of accreditation under  
NVLAP code 200248-0

Frequency f [Hz]	$\alpha_s$ 1/3 octave
100	-0.01
125	0.14
160	0.09
200	0.13
250	0.24
315	0.36
400	0.52
500	0.69
630	0.79
800	0.86
1000	0.89
1250	0.82
1600	0.77
2000	0.70
2500	0.71
3150	0.76
4000	0.78
5000	0.75



C25 test with 1-inch backing

Laboratory Equipment & Procedures available upon request



Sound Absorption Average SAA: 0.62  
Noise Reduction Coefficient NRC: 0.65

Name of test institute: Orfield Labs

No. of test report: OL21-0136

Date: 2/15/2021

Signature:

ELECTRONICALLY  
REPRODUCED  
ORIGINAL FILE