



Acoustical Testing Laboratory



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under Lab Code 200291

TEST REPORT

for

Atkar (N.A.) Inc.
1276 Osprey Drive
Ancaster, ON L9G 4V5
Graham Manning / 905-648-7580

Sound Absorption Test
ASTM C 423 - 09a / E 795 - 05

On

Au.diGroove Panel AGP-10/26
With Insulation

On E-400 Mount

Report Number: NGC 4013020

Page 1 of 4

Assignment Number: G-890


Test Date: 3/14/2013

Report Date: 3/14/2013

Submitted by: _____


Andrew E. Heuer
Senior Test Engineer

Reviewed by: _____


Robert J. Menchetti
Director

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Report Number: NGC 4012020

Test Method: This test method conforms explicitly with the American Society for Testing and Materials Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method - Designation: C 423 - 09a / E 795 - 05.

For the test, a Linear Averaging Mode is used as the Averaging Algorithm when measuring the decay times.

Specimen Description: Designated by client as:

Au.diGroove Panel AGP-10/26 with Insulation

The test specimens were observed to have the following characteristics:

Panels were observed to be 2 inch thick acoustical wood panels.

Face Finish – Grooved Wood, Groove width measured at 2.18mm (0.086 in.) and spaced 7.94mm (0.301 in.) on center.

Panel Core – Wood with perforations nominally 7.6 mm (0.301 inch) in diameter.

Back Finish – Black membrane

All weights and dimensions are averaged:

Thickness: Panel 50.8 mm (2.0 in.) average.
Insulation 23.77 mm (0.946 in.) average

Weight: Panel 12.1 kg/m² (2.48 PSF)
Insulation 1.32 kg/m² (0.27 PSF)
Total Specimen weight 13.09 kg/m² (2.68 PSF)

Unit Size: Three Units 2438.4 mm x 914.4 mm (96 in. x 36 in)

Mounting: Type E-400 Mount per ASTM E795 edges sealed with aluminum bars.

Sample Size: 6.689 m² (72 ft²) nominal

Preconditioning: Minimum 24 hours at 70°F, 55% R.H

Test Results: The results of the tests are given on pages 3 and 4.

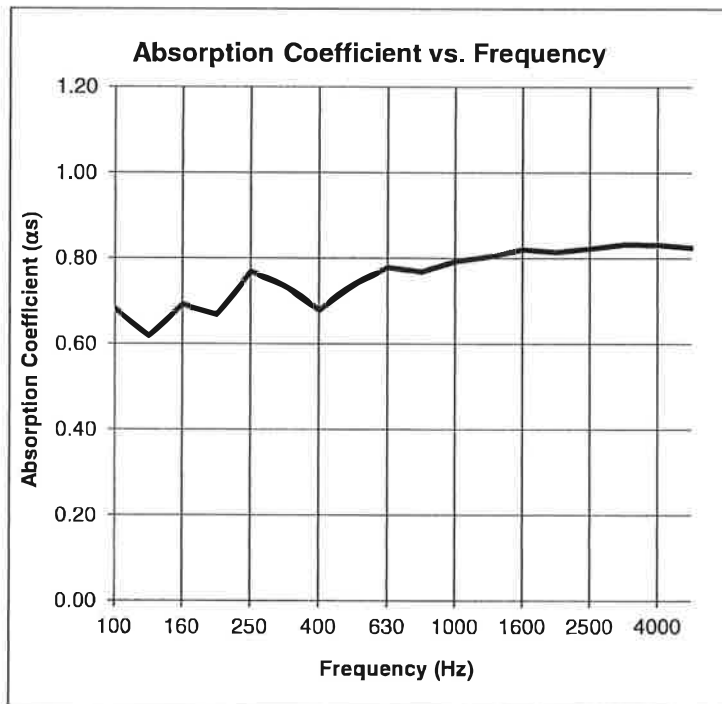
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Sound Absorption Test Data per C423 - 09a

Test report: **NGC4013020**
 Date of test: 3/14/2013
 Spec. Size [m²]: 6.689
 Room Vol.[m³]: 282.1
 Temp. [°C]: 18.0
 Humidity [%]: 53

Noise Reduction Coefficient NRC: 0.80
Sound Absorption Average SAA: 0.77

Frequency [Hz]	Absorption Coefficients α_s
100	0.68
125	0.62
160	0.69
200	0.67
250	0.77
315	0.74
400	0.68
500	0.74
630	0.78
800	0.77
1000	0.79
1250	0.80
1600	0.82
2000	0.81
2500	0.82
3150	0.83
4000	0.83
5000	0.82



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