



SOUND ABSORPTION TEST REPORT NO. AB11-209

Pacific Albus EcoGrille (8 member) on 1.5" fiberglass duct liner ("E-400" mounting)

CLIENT: 9Wood
999 South A Street
Springfield, OR 97477

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27 October 2011

TEST DATE: 26 October 2011

INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM Procedure C 423-09a, Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method. Copies of the test standard are available at www.astm.org. The test chamber volume is 275 cubic meters. Western Electro-Acoustic Laboratory is accredited by the United States Department of Commerce, National Institute of Standards and Technology under the National Voluntary Accreditation Program (NVLAP) Lab Code 100256-0 for this test procedure. This test report relates only to the item(s) tested. This report must not be used to claim product certification, approval, or endorsement by WEAL, NVLAP, NIST or any agency of the federal government.

DESCRIPTION OF TEST SPECIMEN

The test specimen was a 9Wood 8 member Pacific Albus EcoGrille assembly. The specimen consisted of nine grilles, each of which was approximately 2.44 m (96 inches) by 305 mm (12 inches) by 41.3 mm (1-5/8 inches) thick. Each grille consisted of eight 28.6 mm (1-1/8 inch) by 15.9 mm (5/8 inch) slats on edge with 22.2 mm (7/8 inch) spaces between them. The slats and spaces were maintained with 12.7 mm (1/2 inch) by 31.8 mm (1-1/4 inch) backer strips stapled to the back of the slats. The grilles were backed with nominal 38.1 mm (1-1/2 inch) thick 24.0 kg/m^3 (1.5 lbs./ft^3) density fiberglass duct liner. The specimen was placed in an E-400 mounting jig consisting of four wooden sides around the perimeter of the specimen. The duct liner sat on an angle aluminum grid with the scrim side down. The grilles sat on the duct liner such that the top of the grilles were flush with the top of the jig, 400 mm (15-3/4 inches) above the test chamber floor. Closed cell foam gaskets are used to provide an air tight seal between the chamber floor and the bottom of the jig. According to the manufacturer the specimen was:

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The net dimensions of the assembly were 2.74 m (108 inches) by 2.44 m (96 inches) by 79.4 mm (3-1/8 inches) thick. The overall weight of the specimen was 41.0 kg (90.5 lbs.).

Test results are presented on the following page as well as the ASTM estimate of reproducibility, R, and repeatability, r, of the sound absorption coefficients of a specimen in a Type E-400 mounting.

Respectfully submitted,
Western Electro-Acoustic Laboratory

[Handwritten signature of Gary E. Mange]

Gary E. Mange
Laboratory Manager

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Mounting per ASTM E 795-00: Type E-400

Area tested: 72.0 ft² (6.69 m²)

Temperature: 76.6° F

Humidity: 42.5%

Pressure: 28.67 in. of Hg

TEST RESULTS

1/3 Octave Band Absorption Data

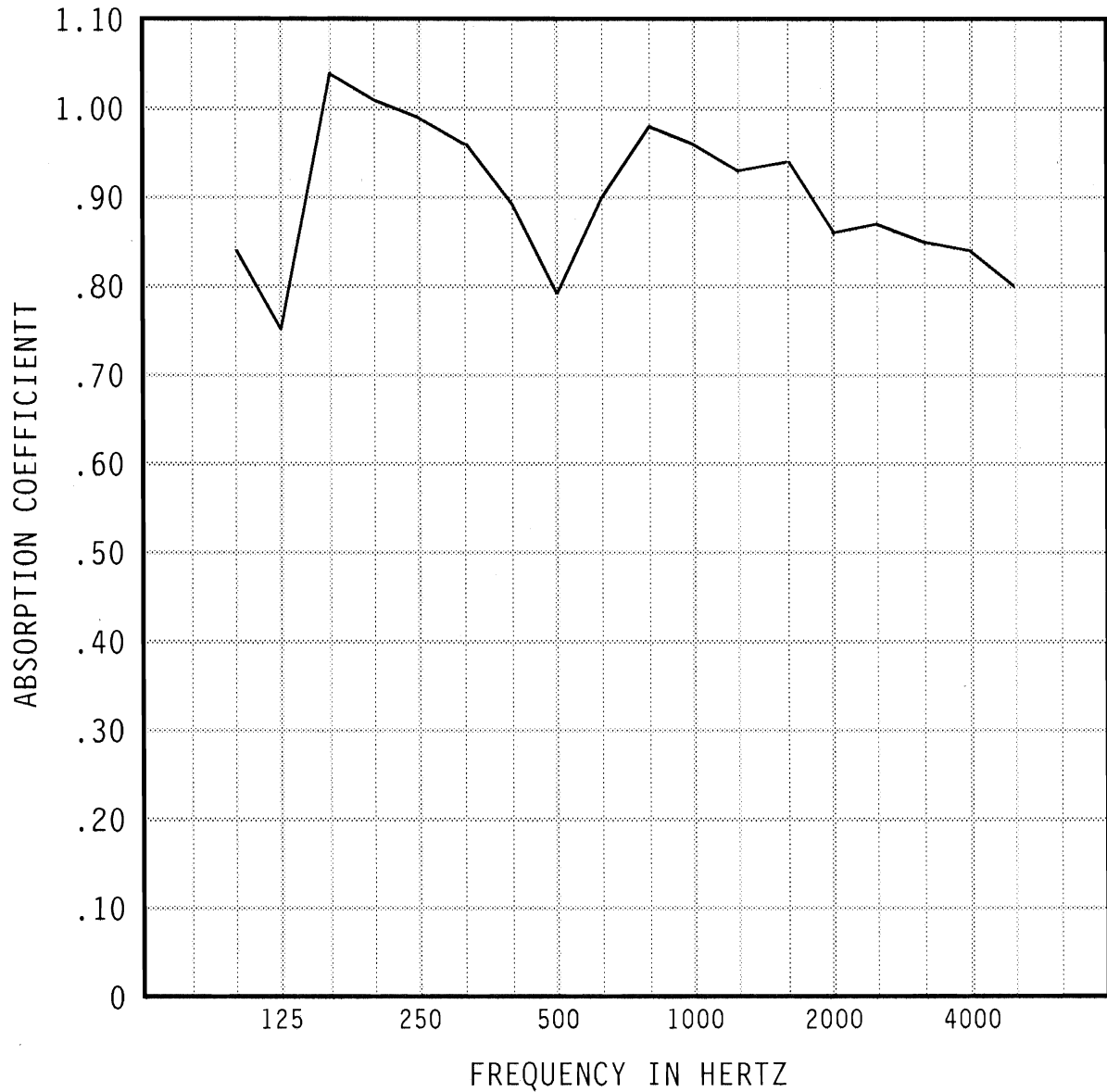
| Frequency in Hz | Absorption in Sabins | Absorption Coefficients | Reproducibility R | Repeatability r |
|--------------------|-------------------------|----------------------------|----------------------|--------------------|
| 100 | 60.6 | 0.84 | 0.49 | 0.23 |
| 125 | 53.7 | 0.75 | 0.33 | 0.16 |
| 160 | 74.7 | 1.04 | 0.27 | 0.11 |
| 200 | 72.5 | 1.01 | 0.14 | 0.08 |
| 250 | 71.3 | 0.99 | 0.17 | 0.07 |
| 315 | 69.1 | 0.96 | 0.12 | 0.07 |
| 400 | 64.3 | 0.89 | 0.08 | 0.05 |
| 500 | 56.6 | 0.79 | 0.09 | 0.06 |
| 630 | 65.1 | 0.90 | 0.08 | 0.06 |
| 800 | 70.3 | 0.98 | 0.09 | 0.04 |
| 1000 | 69.5 | 0.96 | 0.09 | 0.03 |
| 1250 | 67.3 | 0.93 | 0.11 | 0.05 |
| 1600 | 67.4 | 0.94 | 0.13 | 0.04 |
| 2000 | 62.3 | 0.86 | 0.11 | 0.05 |
| 2500 | 62.6 | 0.87 | 0.09 | 0.04 |
| 3150 | 61.5 | 0.85 | 0.10 | 0.04 |
| 4000 | 60.6 | 0.84 | 0.10 | 0.07 |
| 5000 | 57.8 | 0.80 | 0.13 | 0.09 |

NRC 0.90
SAA 0.92

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Specimen Area: 72 sq.ft.
Temperature: 76.6 deg. F
Relative Humidity: 42.5 %

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