



WESTERN ELECTRO - ACOUSTIC LABORATORY

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SOUND ABSORPTION TEST REPORT NO. AB07-138

3000 Series SKU 3118-8 Acoustic Plank with fiberglass infill capsules and fiberglass duct liner ("E-400" mounting)

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

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26 March 2007

TEST DATE: 23 March 2007

INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM Procedure C 423-02a, *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. Any advertising that utilizes this test report or test data must not imply product certification or endorsement by WEAL, NVLAP, NIST or the U.S. Government.

DESCRIPTION OF TEST SPECIMEN

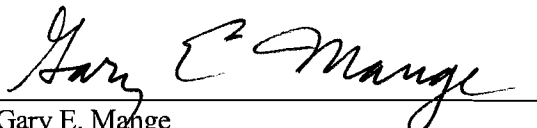
The test specimen was a 9Wood Acoustic Plank assembly on fiberglass duct liner. The specimen consisted of 15 planks. 14 of the planks were approximately 96 inches (2.44 m) by 8 inches (203 mm) by 3/4 inch (19.1 mm) thick and one of the planks was approximately 96 inches (2.44 m) by 2 inches (50.8 mm) by 3/4 inch (19.1 mm) thick. Fiberglass infill capsules were installed in cutouts in the back of the panels. The cutouts and infill capsules were approximately 6-1/2 inches (165 mm) by 1 inch (25.4 mm) by 1/2 inch (12.7 mm) and were spaced at 2 inches (50.8 mm) O.C. The planks locked together with a tongue and groove system. 1-1/2 inch (38.1 mm) 2 lbs./ft³ (32.0 kg/m³) fiberglass duct liner was laid on an angle aluminum grid in an E-400 mounting jig consisting of four wooden sides around the perimeter of the specimen. The planks were laid side by side on the duct liner such that the top of the planks 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:

3000 Series SKU 3118-8 Acoustic Plank with fiberglass infill capsules with fiberglass

The net dimensions of the assembly were 108 inches (2.74 m) by 96 inches (2.44 m) by 2-1/4 inches (57.2 mm) thick. The overall weight of the specimen was 155 lbs. (70.3 kg).

Test results are presented on the following page.

Respectfully submitted,
Western Electro-Acoustic Laboratory



Gary E. Mange
Laboratory Director

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NVLAP LAB CODE 100256-0

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

Area tested: 72.0 ft² (6.69 m²)

Temperature: 69.4° F

Humidity: 46%

TEST RESULTS

1/3 Octave Band Absorption Data

Frequency in Hz	Absorption in Sabins	Absorption Coefficients
50	30.7	0.43
63	25.2	0.35
80	61.1	0.85
100	84.0	1.17
125	64.6	0.90
160	71.5	0.99
200	67.7	0.94
250	66.9	0.93
315	68.3	0.95
400	68.6	0.95
500	66.8	0.93
630	72.1	1.00
800	71.7	1.00
1000	67.7	0.94
1250	65.9	0.91
1600	61.4	0.85
2000	57.8	0.80
2500	56.2	0.78
3150	56.7	0.79
4000	56.9	0.79
5000	56.5	0.78
6300	60.0	0.83
8000	63.9	0.89
10000	77.1	1.07

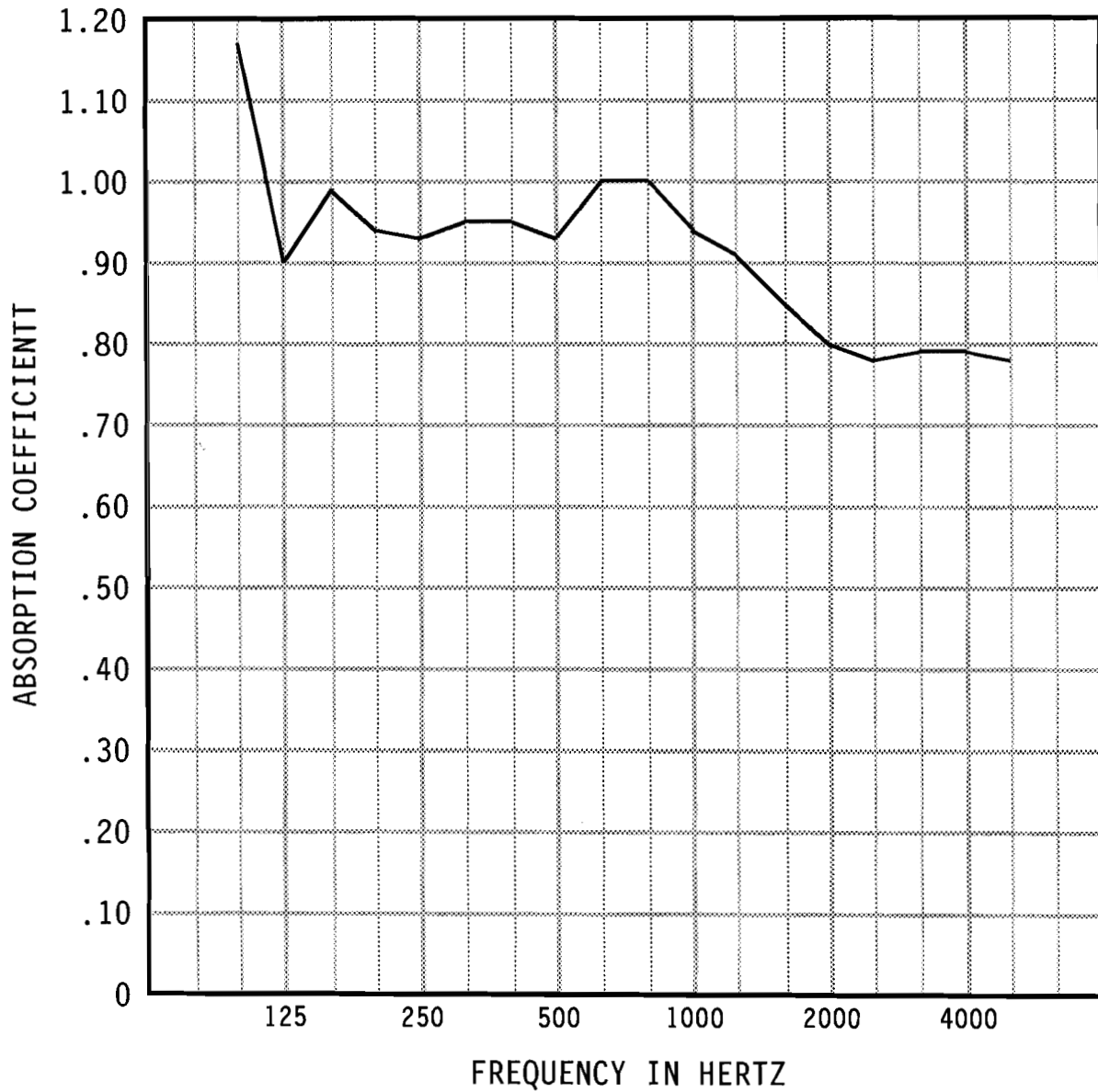
NRC 0.90

SAA 0.92

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Specimen Area: 72 sq.ft.
Temperature: 69.4 deg. F
Relative Humidity: 46 %