



WESTERN ELECTRO - ACOUSTIC LABORATORY

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25132 Rye Canyon Loop Santa Clarita, California 91355 Tel: (661) 775-3741 Fax: (661) 775-3742 www.weal.com

SOUND ABSORPTION TEST REPORT NO. AB07-139

Series 3000 SKU 3118-8 Acoustic Plank with fiberglass infill capsules and fiberglass duct liner ("A" 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

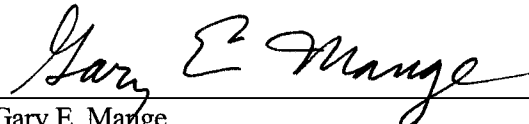
The test specimen was a 9Wood Acoustic Plank assembly. The specimen consisted of 15 planks. 14 of the planks were approximately 96 inches (2.44 m) by 8 inches (203 mm) by 3/4 inch (19.1 mm) thick and one of the planks was approximately 96 inches (2.44 m) by 2 inches (50.8 mm) by 3/4 inch (19.1 mm) thick. 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 directly on the test chamber floor and the planks were laid side by side on the duct liner. The edges of the specimen were covered with angle aluminum and the angle aluminum was taped to the chamber floor around the entire perimeter. According to the manufacturer the specimen was:

Series 3000 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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Mounting per ASTM E 795-00: Type A

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
100	13.8	0.19
125	25.2	0.35
160	30.1	0.42
200	46.8	0.65
250	62.7	0.87
315	78.5	1.09
400	85.4	1.19
500	84.0	1.17
630	82.2	1.14
800	75.7	1.05
1000	67.1	0.93
1250	61.3	0.85
1600	55.7	0.77
2000	51.1	0.71
2500	48.7	0.68
3150	50.5	0.70
4000	50.7	0.70
5000	47.7	0.66

NRC 0.90
SAA 0.93

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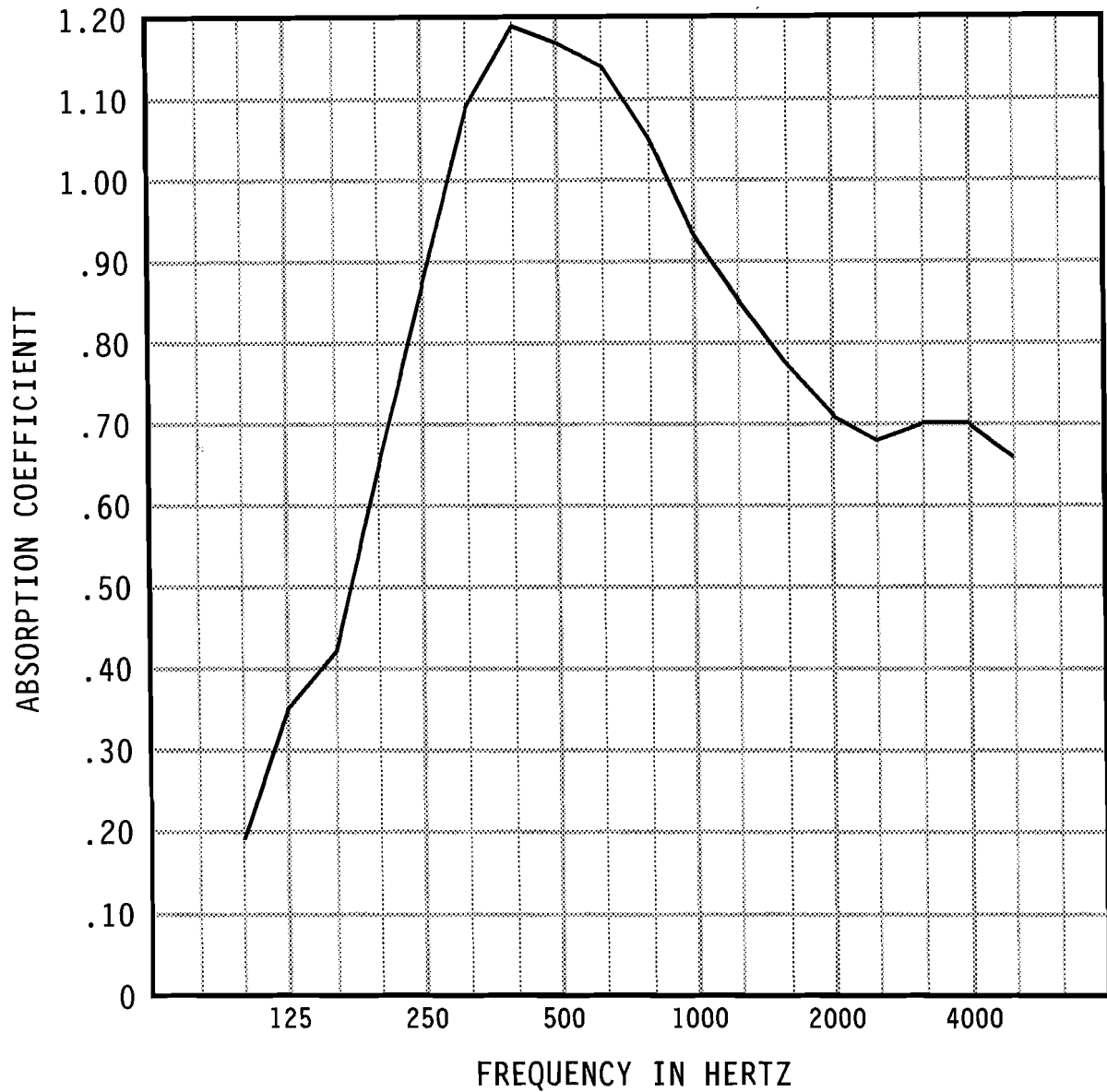


NVLAP LAB CODE 100256-0

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

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