



# WESTERN ELECTRO - ACOUSTIC LABORATORY

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## SOUND ABSORPTION TEST REPORT NO. AB07-139 revision 2

Acoustic Planks SKU 3108-2 with 1.5 mm Kerf Openings, 8 mm spacing over 1.5" Fiberglass ("A" mounting)

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

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7 September 2010

TEST DATE: 23 March 2007

### INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM Procedure C 423-08a, *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](http://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

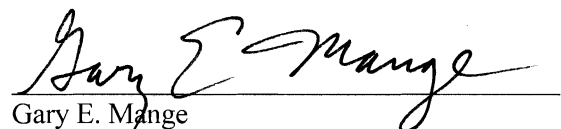
The test specimen was a 9Wood 3100 Acoustic Plank. Fourteen planks, approximately 19 mm (3/4 inch) thick by 200 mm (8 inches) wide by 2.44 m (8 feet) long were assembled over 38.1 mm (1.5 in.) of 32 kg/m<sup>3</sup> (2 lb/ft<sup>3</sup>) fiberglass duct liner. One additional plank, 51 mm (2 inches) wide was used to complete the assembly. The planks were kerfed along the entire length of the plank (parallel to the grain) with 1.5 mm kerf openings on 8 mm centers. Each plank contained 25.4 mm (1 in.) by 159 mm (6.25 in.) oval acoustic dadoes filled with fiberglass pills on the backside of the plank. The duct liner board was laid directly on the test chamber floor and the planks were laid side by side on the duct liner board. The edges were covered with angle aluminum around the entire perimeter of the specimen and the angle aluminum was taped to the chamber floor around the entire perimeter. According to the manufacturer the specimen was:

Series 3100 SKU 3108-2 Acoustic Plank with a 2 lb/ft<sup>3</sup> fiberglass duct liner backing

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

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 ft<sup>2</sup> (6.69 m<sup>2</sup>)

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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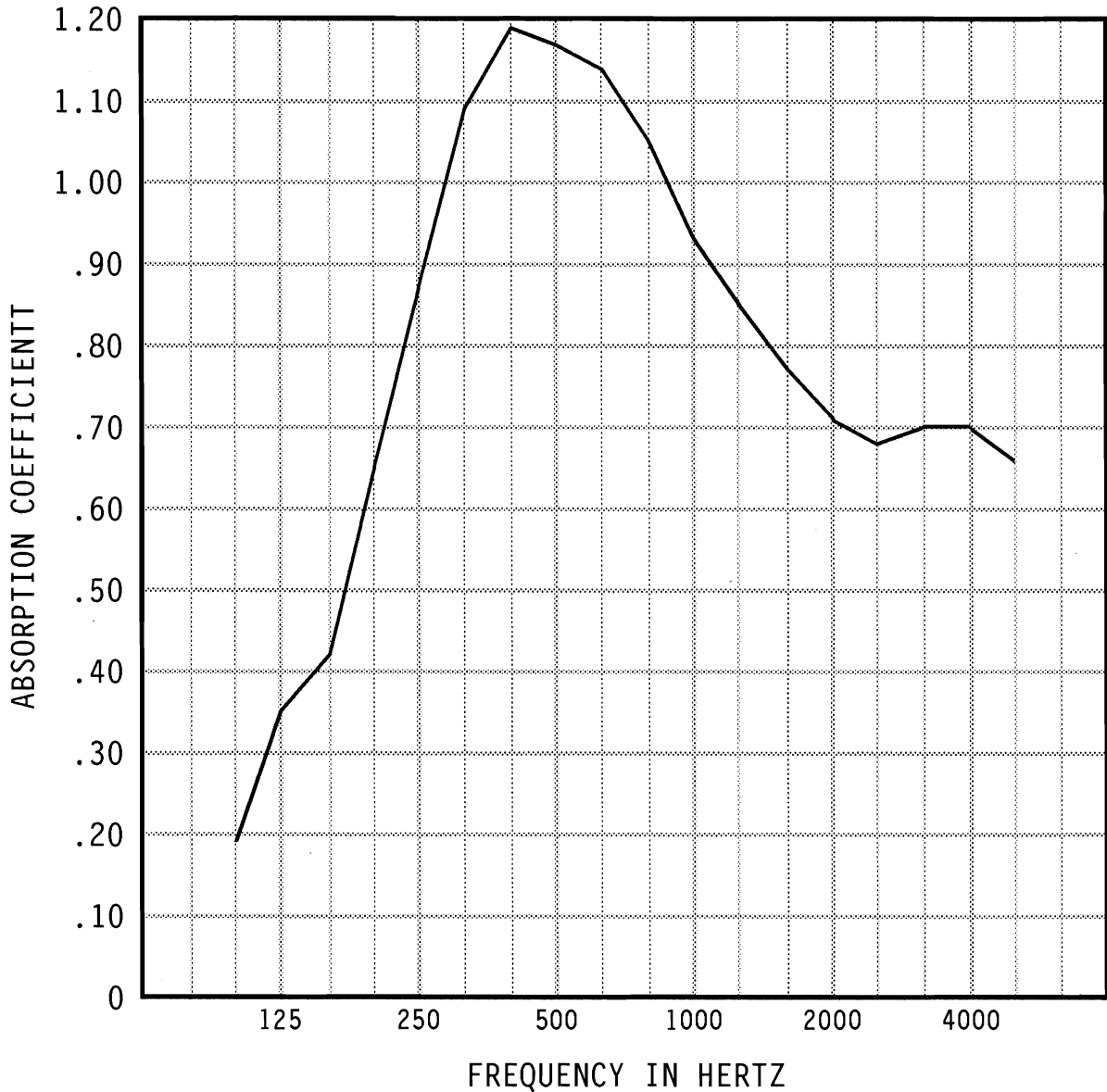


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Specimen Area: 72 sq.ft.  
Temperature: 69.4 deg. F  
Relative Humidity: 46 %

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