



WESTERN ELECTRO - ACOUSTIC LABORATORY

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SOUND ABSORPTION TEST REPORT NO. AB10-182

Acoustic Planks SKU 3116-3 with 2.5mm Kerf Openings, 16 mm spacing over 1.5" Fiberglass
(Type "A" mounting)

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

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31 August 2010

TEST DATE: 27 August 2010

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. 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

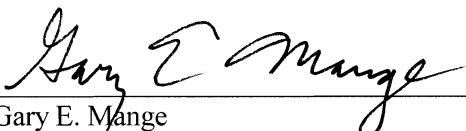
The test specimen was a 9Wood 3100 Acoustic Plank. Fourteen planks, approximately 19 mm (3/4 inch) thick by 200 mm (8 inches) wide by 2.44 m (8 feet) long were assembled over 38.1 mm (1.5 in.) of 32 kg/m³ (2 lb/ft³) fiberglass duct liner. One additional plank, 51 mm (2 inches) wide was used to complete the assembly. The planks were kerfed along the entire length of the plank (parallel to the grain) with 2.5 mm kerf openings on 16 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 with 1 x 2 furring strips running along the outside edges and down the middle. The planks were laid side by side on the 1 x 2 furring strips above, but also touching the fiberglass. 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 3116-3 Acoustic Plank with a 2 lb/ft³ fiberglass duct liner backing

The net dimensions of the assembly were 2.74 m (108 inches) by 2.44 m (96 inches) by 57 mm (2-1/4 inch) thick. The overall weight of the specimen was 71.2 kg (157 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 A mounting.

Respectfully submitted,
Western Electro-Acoustic Laboratory



Gary E. Mange
Laboratory Manager

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Mounting per ASTM E 795-00: Type A

Area tested: 72.0 ft² (6.69 m²)

Temperature: 79.8° F

Humidity: 42.2%

Pressure: 28.47 in. of Hg

TEST RESULTS

1/3 Octave Band Absorption Data

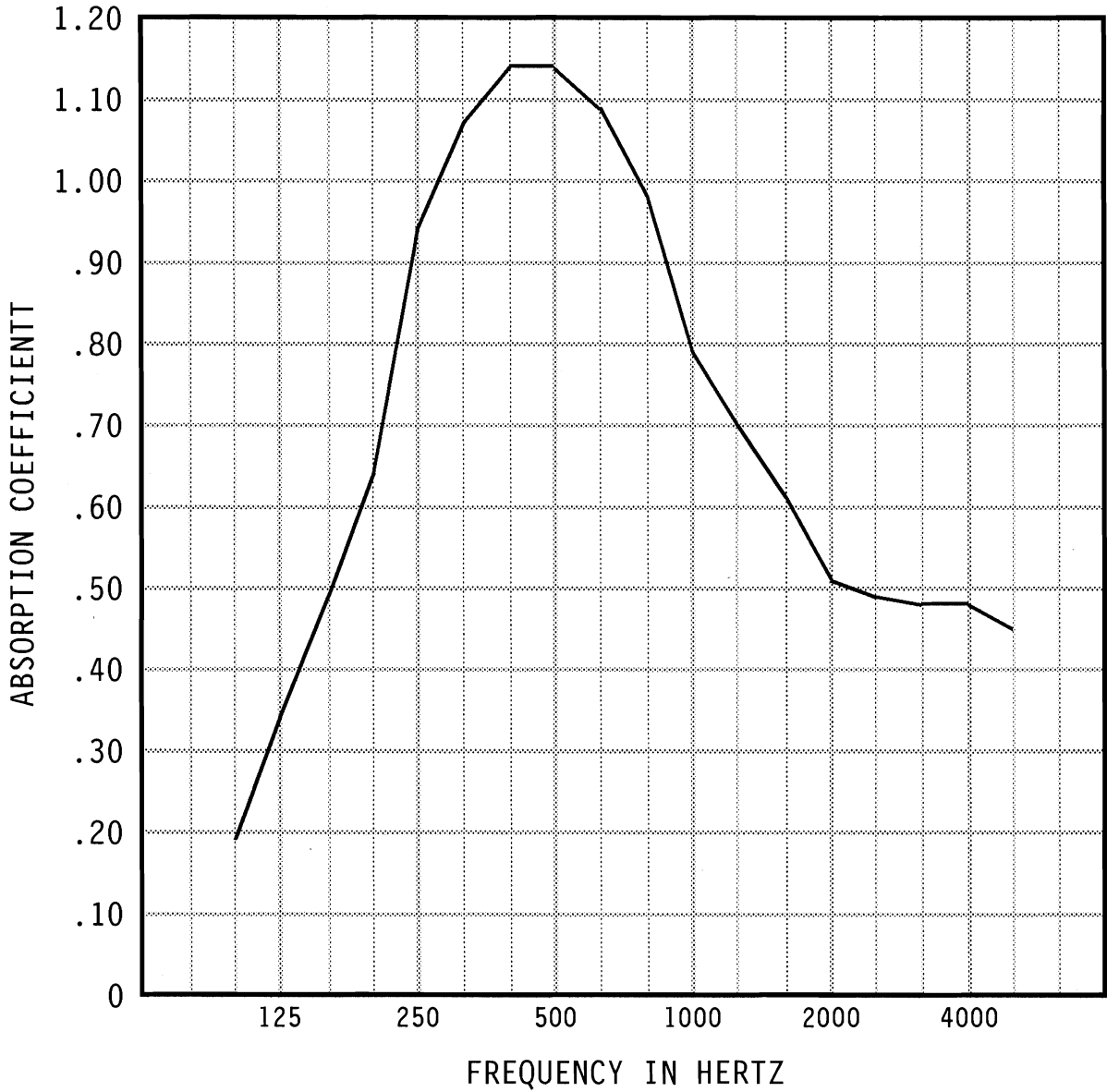
Frequency in Hz	Absorption in Sabins	Absorption Coefficients	Reproducibility R	Repeatability r
100	13.4	0.19	0.27	0.15
125	24.2	0.34	0.22	0.11
160	35.4	0.49	0.23	0.11
200	45.8	0.64	0.17	0.09
250	67.6	0.94	0.15	0.07
315	77.1	1.07	0.22	0.09
400	82.1	1.14	0.16	0.14
500	82.3	1.14	0.14	0.09
630	78.2	1.09	0.14	0.06
800	70.7	0.98	0.14	0.07
1000	57.1	0.79	0.12	0.06
1250	50.5	0.70	0.13	0.05
1600	44.0	0.61	0.14	0.05
2000	37.0	0.51	0.13	0.05
2500	34.9	0.49	0.14	0.06
3150	34.8	0.48	0.15	0.08
4000	34.3	0.48	0.16	0.11
5000	32.1	0.45	0.21	0.15

NRC 0.85
SAA 0.84

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Specimen Area: 72 sq.ft.
Temperature: 79.8 deg. F
Relative Humidity: 42.2 %

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