



WESTERN ELECTRO - ACOUSTIC LABORATORY

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TESTING • CALIBRATION • RESEARCH

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SOUND ABSORPTION TEST REPORT NO. AB11-210

Western Hemlock Panelized Linear SKU 2113-4 on 1.5" fiberglass duct liner
("A" 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 Panelized Linear assembly. The specimen consisted of nine panels, each of which was approximately 2.44 m (96 inches) by 305 mm (12 inches) by 28.6 mm (1-1/8 inches) thick. Each panel consisted of four 57.2 mm (2-1/4 inch) by 15.9 mm (5/8 inch) slats with 19.1 mm (3/4 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 panels were backed with nominal 38.1 mm (1-1/2 inch) thick 24.0 kg/m³ (1.5 lbs./ft³) density fiberglass duct liner. The specimen was placed directly on the test chamber floor. The duct liner was placed on the floor with the scrim side down. The panels sat on the duct liner and the edges of the specimen were covered with angle aluminum around the entire perimeter of the test specimen. The angle aluminum was taped to the chamber floor around the entire perimeter. 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 66.7 mm (2-5/8 inches) thick. The overall weight of the specimen was 49.0 kg (108 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: 76.5° F

Humidity: 40.8%

Pressure: 28.62 in. of Hg

TEST RESULTS

1/3 Octave Band Absorption Data

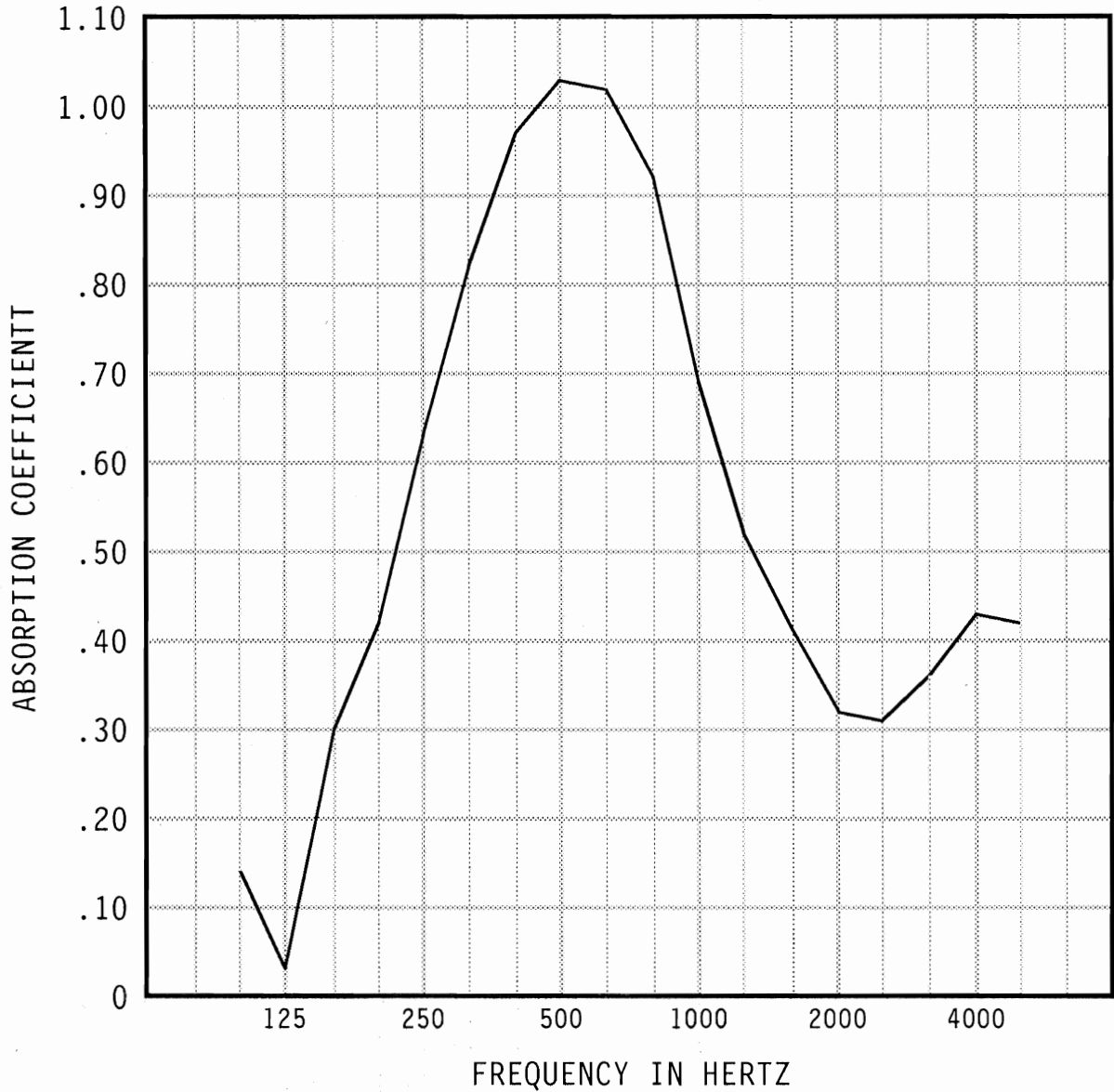
Frequency in Hz	Absorption in Sabins	Absorption Coefficients	Reproducibility R	Repeatability r
100	10.1	0.14	0.27	0.15
125	2.2	0.03	0.22	0.11
160	21.9	0.30	0.23	0.11
200	30.3	0.42	0.17	0.09
250	45.0	0.63	0.15	0.07
315	58.8	0.82	0.22	0.09
400	69.6	0.97	0.16	0.14
500	74.3	1.03	0.14	0.09
630	73.1	1.02	0.14	0.06
800	66.1	0.92	0.14	0.07
1000	49.7	0.69	0.12	0.06
1250	37.5	0.52	0.13	0.05
1600	29.3	0.41	0.14	0.05
2000	23.1	0.32	0.13	0.05
2500	22.5	0.31	0.14	0.06
3150	25.8	0.36	0.15	0.08
4000	31.2	0.43	0.16	0.11
5000	30.0	0.42	0.21	0.15

NRC 0.65
SAA 0.67

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Specimen Area: 72 sq.ft.
Temperature: 76.5 deg. F
Relative Humidity: 40.8 %

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