



SOUND ABSORPTION TEST REPORT NO. AB06-118 revision 1

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

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25 May 2006

TEST DATE: 28 March 2006
TEST SPECIMEN: Linear Wood Panels

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 Linear Wood acoustical panel assembly. The specimen consisted of 9 panels which were each approximately 8 ft. (2.44 m) by 1 ft. (305 mm). When assembled, the specimen was a series of 3-1/4 inch (82.6 mm) boards and 3/4 inch (19.1 mm) spaces. The boards and spaces were maintained with 1/2 inch (12.7 mm) by 1 inch (25.4 mm) backer strips screwed to the back of the boards. Attached to the back of the panels was 1-1/2 inch (38.1 mm) 2 lbs./ft³ (32.0 kg/m³) fiberglass duct liner board. The panels were laid side by side directly on the test chamber floor and the edges were covered with angle aluminum around the entire perimeter of the specimen. The angle aluminum was taped to the chamber floor around the entire perimeter. According to the manufacturer the specimen was:

2100 Series SKU 2114-3 Linear Wood Panels with preattached acoustic ductliner and 3-1/4" x 5/8" solid Hemlock members.

The net dimensions of the panel assembly were 108.8 inches (2.76 m) by 95.8 inches (2.43 m) by 2-5/8 inches (66.7 mm) thick. The percent open area was 18.8%. The overall weight of the specimen was 124 lbs. (56.2 kg).

Test results are presented on the following page.

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: 72.37 ft² (6.72 m²)

Temperature: 66.1° F

Humidity: 49%

TEST RESULTS

1/3 Octave Band Absorption Data

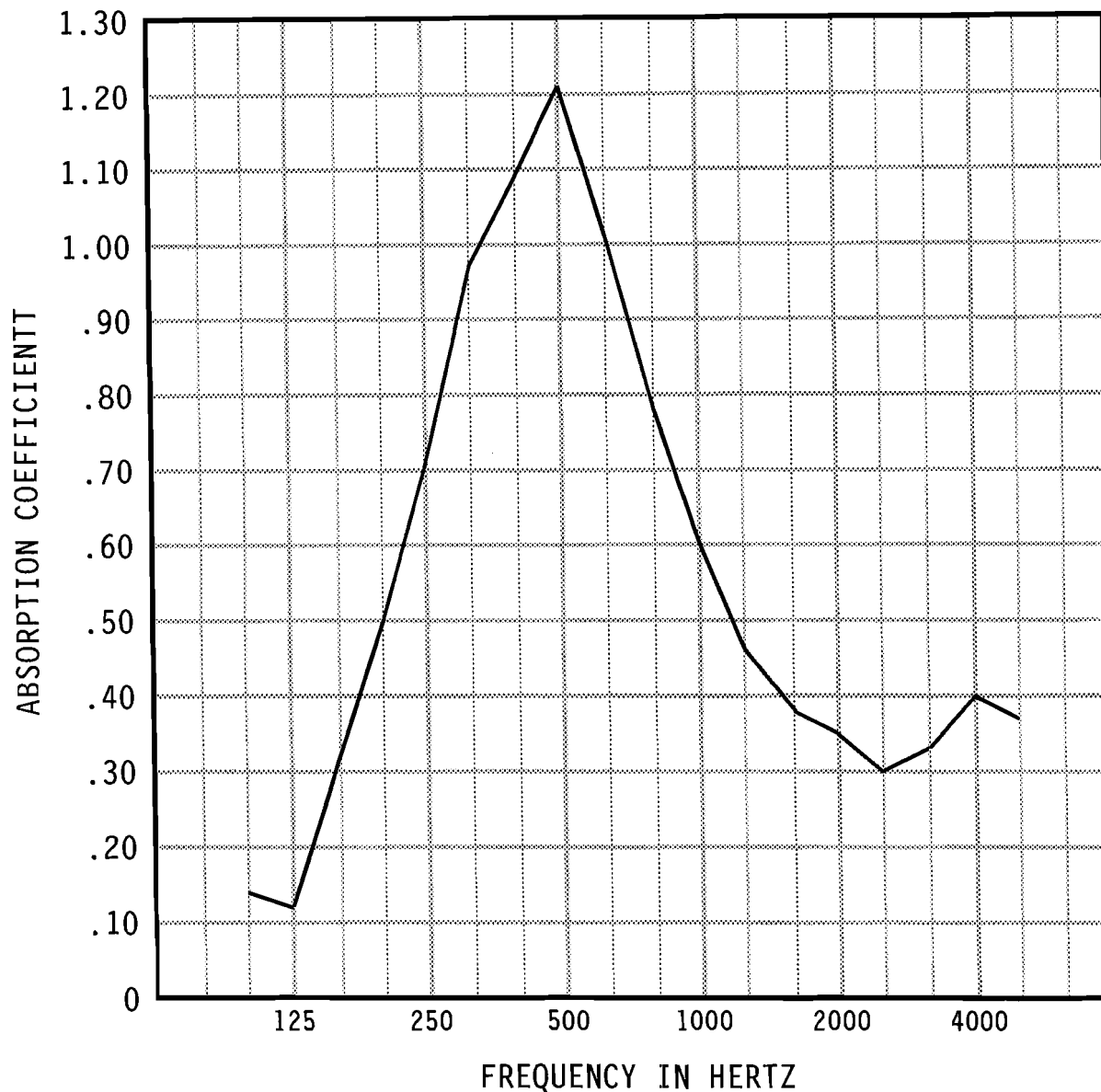
Frequency in Hz	Absorption in Sabins	Absorption Coefficients
100	10.4	0.14
125	8.7	0.12
160	23.5	0.32
200	36.1	0.50
250	51.7	0.71
315	70.4	0.97
400	78.7	1.09
500	87.3	1.21
630	73.4	1.01
800	56.7	0.78
1000	43.7	0.60
1250	33.5	0.46
1600	27.2	0.38
2000	25.1	0.35
2500	21.8	0.30
3150	24.0	0.33
4000	28.9	0.40
5000	27.1	0.37

NRC 0.70
SAA 0.70

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Specimen Area: 72.37 sq.ft.
Temperature: 66.1 deg. F
Relative Humidity: 49 %

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