



WESTERN ELECTRO - ACOUSTIC LABORATORY

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SOUND ABSORPTION TEST REPORT NO. AB07-135 revision 1

5000 Series SKU 5316-6 Perforated Wood Tiles with SoundTex
("E-400" mounting)

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

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23 April 2007

TEST DATE: 13 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 Perforated Wood Tile assembly. The specimen consisted of 20 tiles. 16 of the tiles were approximately 24 inches (610 mm) by 24 inches (610 mm) by 3/4 inch (19.1 mm) thick and 4 of the tiles were approximately 24 inches (610 mm) by 12 inches (305 mm) by 3/4 inch (19.1 mm) thick. The perforations were 6 mm (1/4 inch) diameter holes on 16 mm (5/8 inch) diamond centers. Adhered to the back of the tiles was SoundTex. The specimen was placed in an E-400 mounting jig consisting of four wooden sides around the perimeter of the specimen. The tiles sat on an angle aluminum grid such that the top of the tiles were flush with the top of the jig, 400 mm (15-3/4 inches) above the test chamber floor. Closed cell foam gaskets are used to provide an air tight seal between the chamber floor and the bottom of the jig. The joints and perimeter of the specimen were sealed with tape. According to the manufacturer the specimen was:

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The net dimensions of the tile assembly were 108 inches (2.74 m) by 96 inches (2.44 m) by 3/4 inches (19.1 mm) thick. The percent open area was 11.0%. The overall weight of the specimen was 181 lbs. (82.1 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 E-400

Area tested: 72.0 ft² (6.69 m²)

Temperature: 69.4° F

Humidity: 43%

TEST RESULTS

1/3 Octave Band Absorption Data

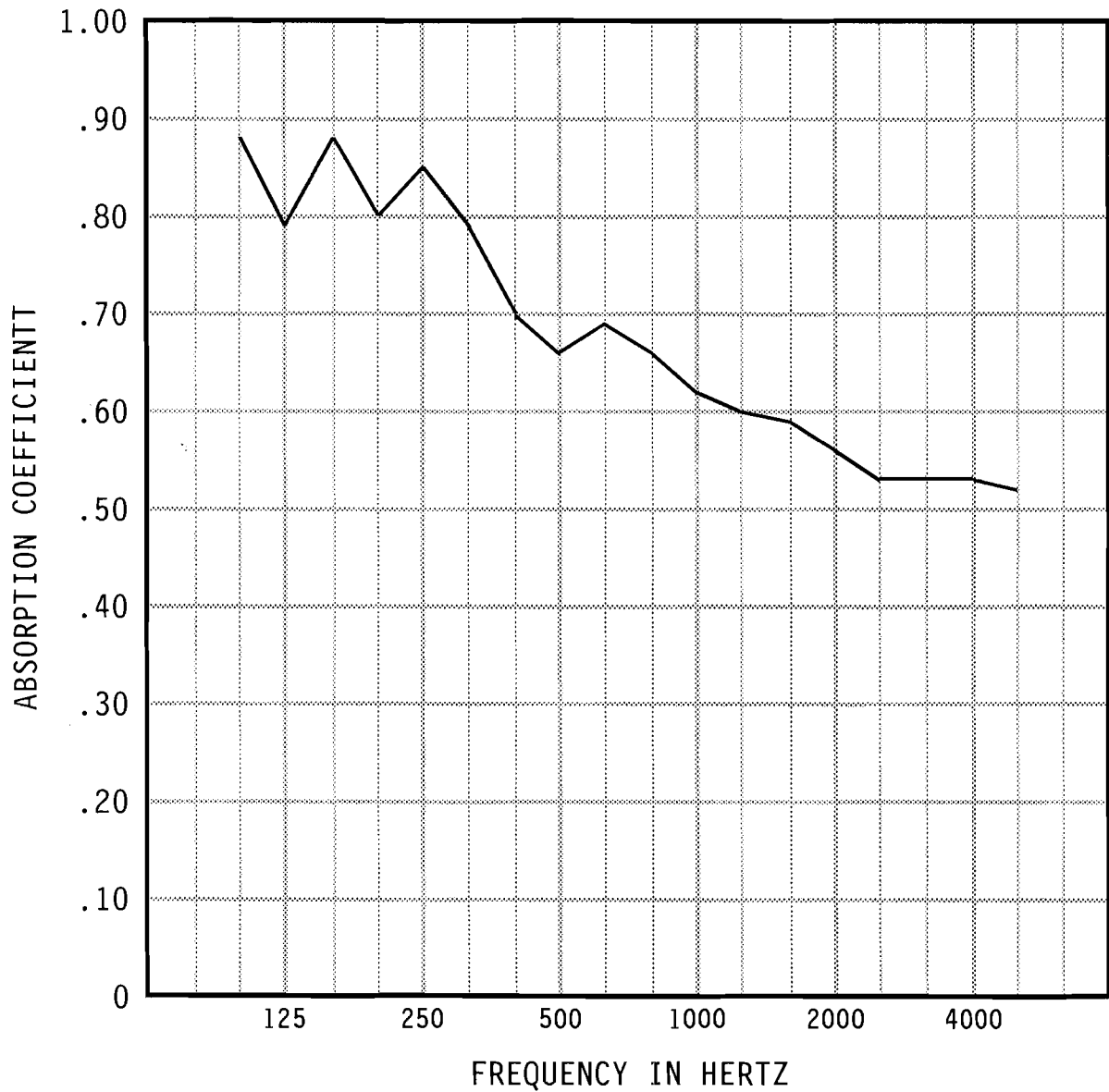
Frequency in Hz	Absorption in Sabins	Absorption Coefficients
100	63.1	0.88
125	57.1	0.79
160	63.5	0.88
200	57.4	0.80
250	61.0	0.85
315	56.6	0.79
400	50.2	0.70
500	47.8	0.66
630	49.8	0.69
800	47.5	0.66
1000	44.5	0.62
1250	43.0	0.60
1600	42.6	0.59
2000	40.6	0.56
2500	38.4	0.53
3150	38.4	0.53
4000	38.5	0.53
5000	37.5	0.52

NRC 0.65
SAA 0.67

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Specimen Area: 72 sq.ft.
Temperature: 69.4 deg. F
Relative Humidity: 43 %

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