



WESTERN ELECTRO - ACOUSTIC LABORATORY

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25132 Rye Canyon Loop Santa Clarita, California 91355 Tel: (661) 775-3741 Fax: (661) 775-3742 www.weal.com

SOUND ABSORPTION TEST REPORT NO. AB17-148

Madrid Groove and Bore panels
With 2 inches of fiberglass insulation.

CLIENT: **Madrid**
7800 Industry Ave.
Pico Rivera, CA 90660

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24 June 2016

TEST DATE: 8 February 2016

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 Madrid Groove and Bore panel assembly. The specimen consisted of 16 panels which were 2.74 m (108 inches) long by 152 mm (6 inches) wide by 25.4 mm (1 inch) deep. 51 mm (2 inch) thick rigid fiberglass insulation pieces were placed on the chamber floor. The planks were placed on the fiberglass. Angled metal edge pieces were placed around the specimen and taped to the floor.

The net dimensions of the assembly were 2.44 m (96 inches) by 2.74 m (108 inches) by 110 mm (4.325 inches) thick. The overall weight of the specimen (not including fiberglass insulation) was 87.1 kg (192 lbs.).

The specimen achieved an NRC of .80 and an SAA of .78. Additional 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.

Approved:

Respectfully submitted,
Western Electro-Acoustic Laboratory

Stephen A. Martin, Ph.D., P.E.
Laboratory Director

Raul Martinez
Acoustical Test Technician

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Test Date: 15 June 2017

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Mounting per ASTM E795: Type A
Area Tested: 72.0 sq. ft. (6.69 sq.m)
Temperature: 75.2° F
Humidity: 43.3%
Pressure: 28.54 in. of Hg

TEST RESULTS

1/3 Octave Band Absorption Data

Frequency in Hz	Absorption in Sabins	Absorption Coefficients	Reproducibility R	Repeatability r
100	22.1	0.31	0.27	0.15
125	0.0	0.00	0.22	0.11
160	0.0	0.00	0.23	0.11
200	57.9	0.80	0.17	0.09
250	73.6	1.02	0.15	0.07
315	76.0	1.06	0.22	0.09
400	72.9	1.01	0.16	0.14
500	66.8	0.93	0.14	0.09
630	63.7	0.88	0.14	0.06
800	58.5	0.81	0.14	0.07
1000	48.9	0.68	0.12	0.06
1250	43.9	0.61	0.13	0.05
1600	41.1	0.57	0.14	0.05
2000	38.6	0.54	0.13	0.05
2500	35.5	0.49	0.14	0.06
3150	34.6	0.48	0.15	0.08
4000	35.1	0.49	0.16	0.11
5000	35.4	0.49	0.21	0.15

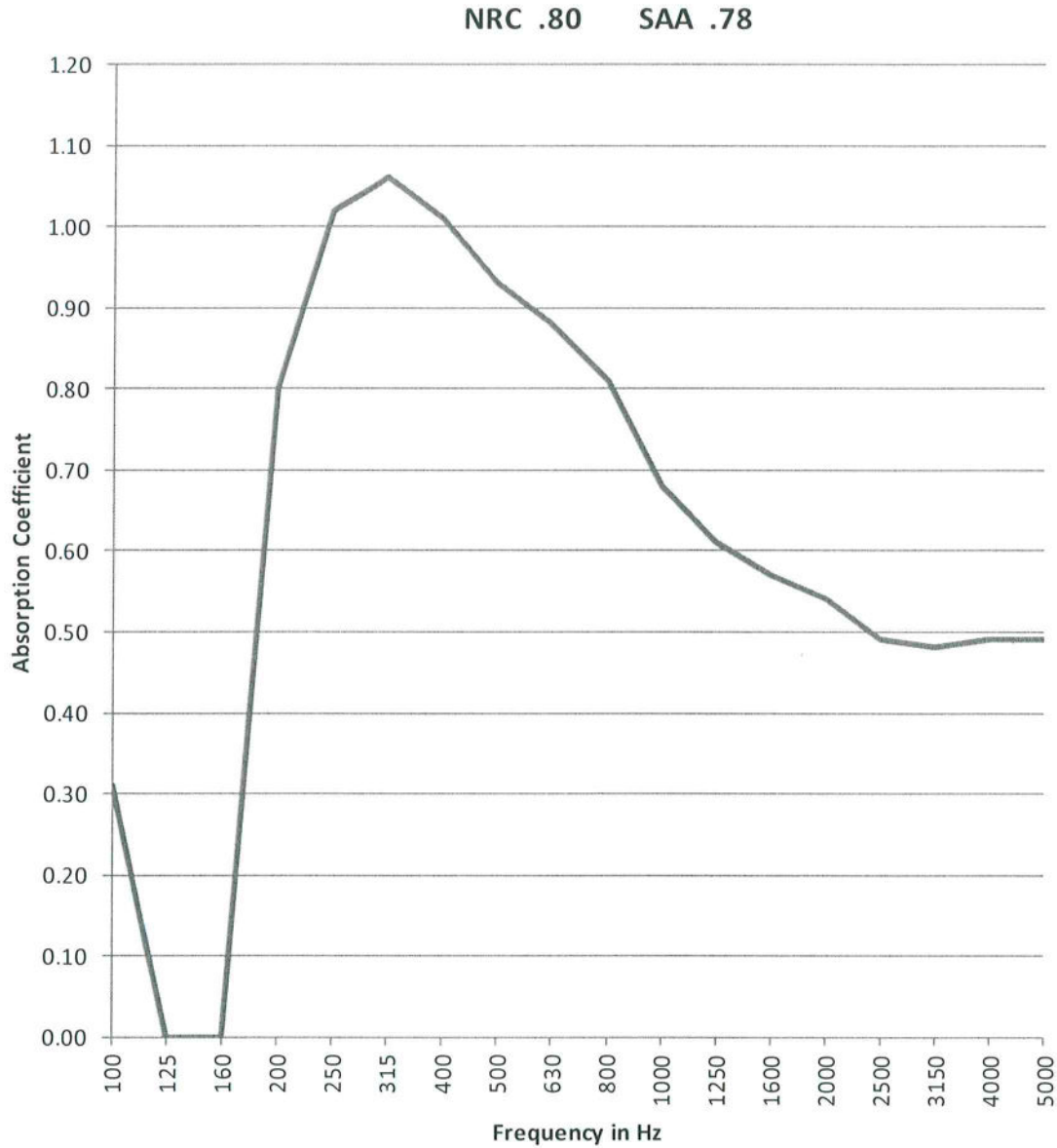
NRC 0.80

SAA 0.78

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Specimen Area: 72.0 sq. ft.
Temperature: 75.2° F
Relative Humidity: 43.3%
Atm. Pressure: 28.54 in. of Hg

