

NWAA Labs

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SOUND ABSORPTION

TEST REPORT No. NW011409-1

Client: RealAcoustix LLC
903 N. Marshall Way, Suite A
Layton, UT 84041

Test Date: 14 January 2009

Test Specimen: RealColumn 24 diffusing/absorbing columns

INTRODUCTION

The methods and procedures used in this test conform to the provisions and requirements of ASTM Procedure C 423-02a, *Standard Test Method for Sound Absorption Coefficients by the Reverberation Room Method*. Copies of the test standard are available at www.astm.org. The test chamber is a cuboid, 871.7cm long by 541cm wide by 609.6cm high, and volume is 275 cubic meters. There are six fixed surfaces and two movable/fixed surfaces oriented as diffusors in the reverberation room. There are two sources one in each corner consisting of two Dodecahedron speakers and two sub-bass cabinets for extended low frequency capabilities. This test report relates only to the item(s) tested. Any advertisement that utilizes this test report or test data must not imply product certification or endorsement by NWAA Labs.

DESCRIPTION OF TEST SPECIMEN

The test specimen consisted of RealAcoustix RealColumn 24 diffusing/absorbing columns. The test specimen consisted of four half columns, 96 inches (2.44 m) long with a 23-3/4 inch (603 mm) diameter and four half columns, 12 inches (305 mm) long with a 23-3/4 inch (603 mm) diameter. Each column piece was sealed on the ends and back. The half columns were placed side by side on the test chamber floor to form a nominal 9 foot (2.74 m) by 8 foot (2.44 m) sample. According to the manufacturer the panels were:

1/8 inch (3.2 mm) thick veneer plywood shaped over a plywood frame. The interior of each piece was filled with fiberglass.

The overall dimensions of the specimen were 108 inches (2.74 m) by 96 inches (2.44 m) by 11-7/8 inches (302 mm) high. The overall weight of the specimen was 195.5 lbs. (88.7 kg).

Test results are on the following pages.

Submitted by,
NWAA Labs Inc



Ron Sauro
NWAA Labs Inc

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Test Date:	14-Jan-2009
Mounting per ASTM E795-00:	Type A
Area Tested:	72.00 Ft ² (6.69m ²)
Temperature:	68.2°F
Humidity:	46%

Test Results

RealColumn 24 diffusing/absorbing columns				
	Frequency	Absorption Coefficient	Absorption in Sabines	
	100Hz	0.56	40.30	
	125Hz	0.35	25.40	
	160Hz	0.37	26.80	
	200Hz	0.35	25.00	
	250Hz	0.47	33.60	
	315Hz	0.49	35.20	
	400Hz	0.38	27.40	
	500Hz	0.36	26.30	
	630Hz	0.30	21.80	
	800Hz	0.27	19.50	
	1000Hz	0.26	18.40	
	1250Hz	0.23	16.60	
	1600Hz	0.20	14.50	
	2000Hz	0.16	11.40	
	2500Hz	0.12	8.90	
	3150Hz	0.11	7.80	
	4000Hz	0.09	6.40	
	5000Hz	0.10	7.30	
	6300Hz	0.08	5.90	
	8000Hz	0.10	7.00	
	10000Hz	0.07	5.00	

NRC	0.30
SAA	0.30

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