



RIVERBANK ACOUSTICAL LABORATORIES

Alion Science and Technology

1512 S. BATAVIA AVENUE
GENEVA, ILLINOIS 60134

630/232-0104
FOUNDED 1918 BY
WALLACE CLEMENT SABINE

TEST REPORT

FOR: All Noise Control
ON: 2" Panels
CONDUCTED: 4 October 2006

Sound Absorption Test
RAL™-A06-219

TEST METHOD

The test method conformed explicitly with the requirements of the ASTM Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method: ASTM C423-02a and E795-05. Riverbank Acoustical Laboratories has been accredited by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) for this test procedure (NVLAP Lab Code: 100227-0). A description of the measuring procedure and room qualifications is available separately.

DESCRIPTION OF THE SPECIMEN

The test specimen was designated by the manufacturer as 2" Wall Panels. The overall dimensions of the specimen as measured were nominally 2.44 m (96 in.) wide by 2.74 m (108 in.) long and 51 mm (2 in.) thick. The specimen consisted of Eighteen (18) pieces. Each piece was 305 mm (12 in.) wide by 1.22 m (48 in.) long and 50 mm (2 in.) thick. The specimen was tested in the laboratory's 292 m³ (10,311 ft³) test chamber.

The manufacturer's description of the specimen was as follows: Model F102-1248; Description: Control Columns; Size: 12" x 48" - 2" thick; Construction: Fiberglass - 6 lbs per cu. ft.; Finish: Acoustic fabric; Edge: Square, hardened. A visual inspection verified the manufacturer's description of the specimen.

The weight of the entire specimen as measured was 44.9 kg (99 lbs), an average of 6.7 kg/m² (1.4 lbs/ft²). The area used in the calculations was 6.7 m² (72 ft²). The room temperature at the time of the test was 21°C (69°F) and 68±1% relative humidity.

MOUNTING A

The test specimen was laid directly against the test surface. The perimeter was sealed using metal framing.

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THE RESULTS REPORTED ABOVE APPLY ONLINE TO THE SPECIFIC SAMPLE SUBMITTED FOR MEASUREMENT.

NO RESPONSIBILITY IS ASSUMED FOR PERFORMANCE OF ANY OTHER SPECIMEN.

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ACCREDITATION PROGRAM FOR SELECTED TEST METHODS FOR ACOUSTICS.

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TEST RESULTS

1/3 Octave Center Frequency (Hz)	Absorption Coefficient	Total Absorption In Sabins
100	0.34	24.18
** 125	0.45	32.73
160	.052	37.27
200	0.72	51.75
** 250	0.83	59.63
315	0.97	69.86
400	1.05	75.96
** 500	1.07	77.08
630	1.07	77.25
800	1.03	74.30
** 1000	1.00	71.78
1250	1.02	73.33
1600	0.99	71.25
** 2000	1.01	72.77
2500	0.99	70.93
3150	0.96	69.10
** 4000	1.00	71.72
5000	0.98	70.24

SAA = 0.98
NRC = 1.00

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TEST RESULTS (Continued)

The sound absorption average (SAA) is defined as a single number rating, the average, rounded to the nearest 0.01, of the sound absorption coefficient of a material for the twelve one-third octave bands from 200 through 2500 Hz, inclusive.

The noise reduction coefficient (NRC) is defined from previous versions of this same test method as the average of the coefficients at 250, 500, 1000, and 2000 Hz, expressed to the nearest integral multiple of 0.05.

Tested by



Dean Victor
Senior Experimentalist

Approved by



David L. Moyer
Laboratory Manager

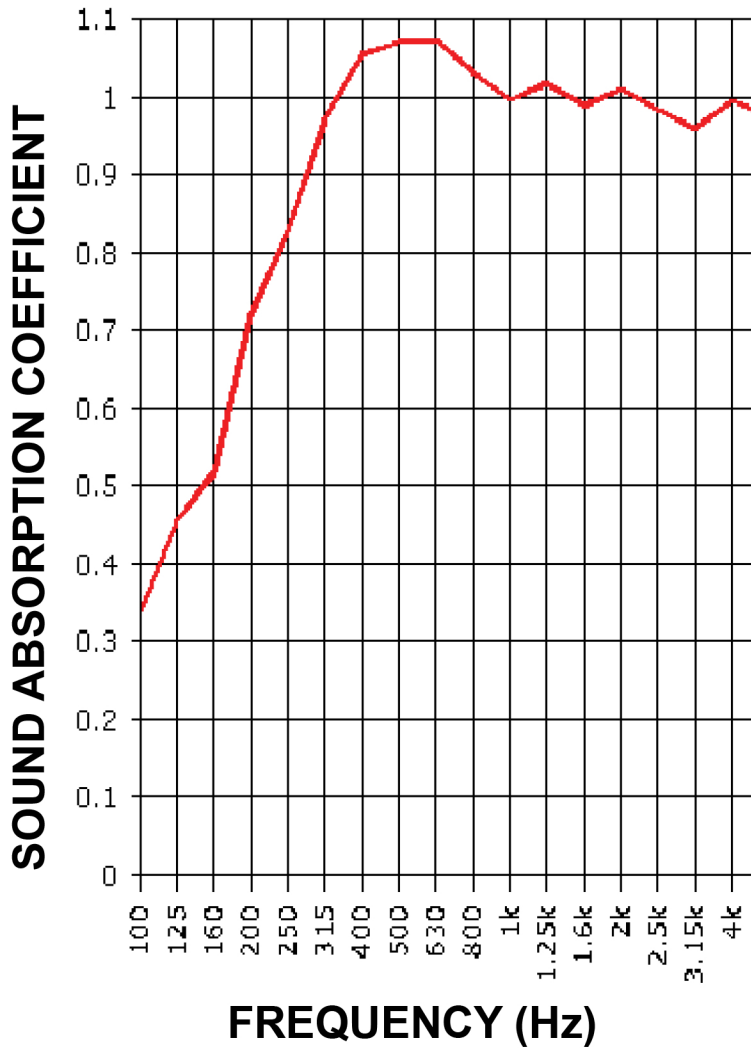
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SOUND ABSORPTION REPORT RAL-A06-219



SAA=0.98

NRC=1.00

Address: 2731 Vista Parkway # D-6 WPB, Florida 33411

Phone: 561-964-9360

Email: info@allnoisecontrol.com

