RIVERBANK ACOUSTICAL LABORATORIES

1512 S. BATAVIA AVENUE GENEVA, ILLINOIS 60134

Alion Science and Technology

630/232-0104 FOUNDED 1918 BY WALLACE CLEMENT SABINE



FOR: All Noise Control

P2731 Vista Parkway D-8 West Palm Beach FL 33411

ON: 3" Prima Acoustic Panels

Sound Absorption Test RALTM-A06-231

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CONDUCTED: 18 October 2006

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

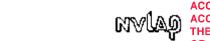
The test specimen was designated by the manufacturer as 3" Prima Acoustic Panels. The overall dimensions of the specimen as measured were nominally 2.74 m (108 in.) wide by 2.44 m (96 in.) long and 76 mm (3 in.) thick. The specimen consisted of ten (10) pieces each at 76 mm (3 in.) thick. Eight (8) pieces were nominally 610 mm (24 in.) wide by 1.22 m (48 in.) long and two (2) pieces were nominally 305 mm (12 in.) wide by 1.22 m (48 in.) long. 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 F103-2448; Description: Prima Acoustic panels; Size: 24" x 48" - 3" 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 65.3 kg (144 lbs), an average of 9.8 kg/m² (2 lbs/ft²). The area used in the calculations was 6.7 m² (72 ft²). The room temperature at the time of the test was $22\pm1^{\circ}$ C ($72\pm1^{\circ}$ F) and $56\pm1^{\circ}$ % relative humidity.

MOUNTING A

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



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TEST RESULTS

1/3 Octave Center Frequency (Hz)	Absorption Coefficient	Total Absorption In Sabins
100	0.68	48.91
** 125	0.92	66.12
160	0.82	59.25
200	0.89	64.06
** 250	0.91	65.69
315	1.00	72.27
400	1.01	72.75
** 500	1.00	72.01
630	1.01	72.90
800	1.00	71.69
** 1000	1.00	72.33
1250	1.03	74.20
1600	1.02	73.53
** 2000	1.02	73.74
2500	1.02	73.15
3150	1.01	72.46
** 4000	1.03	74.16
5000	1.04	74.64
	SAA = 0.99 $NRC = 1.00$	

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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.

Senior Experimentalist

Tested by Dean Victor Approved by Dean Victor

David L. Moyer Laboratory Manager

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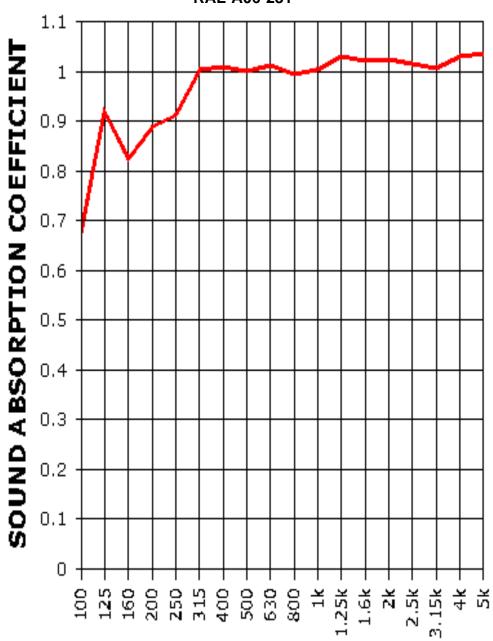
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TEST REPORT

SOUND ABSORPTION REPORT RAL-A06-231



FREQUENCY (Hz)

SAA=0.99 NRC=1.00

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