1512 S. BATAVIA AVENUE GENEVA, ILLINOIS 60134 Alion Science and Technology

630/232-0104 FOUNDED 1918 BY WALLACE CLEMENT SABINE

TEST REPORT

FOR: Auralex Acoustics, Inc.

Indianapolis, IN

Sound Absorption Test RALTM-A08-264

ON: T-Coustic Drop Ceiling Tile (White)

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CONDUCTED: 19 December 2008

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 C423-08 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 T-Coustic Drop Ceiling Tile (White). The overall dimensions of the specimen as measured were nominally 2.44 m (96 in.) wide by 2.74 m (108 in.) long and 25 mm (1 in.) thick. The specimen consisted of ten (10) pieces of fabric faced fiberglass. Eight (8) pieces were nominally 609 mm (24 in.) wide by 1.22 m (48 in.) long. 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 weight of the entire specimen as measured was 22 kg (48.5 lbs) an average of 3.3 kg/m² (0.7 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 (70°F) and $59\pm1\%$ relative humidity.

MOUNTING E-400

The test specimen was mounted with an airspace behind it. The number designates the distance in mm from the exposed face of the test specimen to the test surface.



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TEST RESULTS

1/3 Octave Center Frequency (Hz)	Absorption Coefficient	Total Absorption In Sabins
100	1.01	72.73
** 125	0.75	54.34
160	0.79	56.65
200	0.79	56.96
** 250	0.85	61.23
315	0.77	55.68
400	0.76	54.42
** 500	0.78	56.37
630	0.86	61.85
800	0.93	66.91
** 1000	1.01	72.69
1250	0.99	71.03
1600	1.01	73.00
** 2000	1.04	74.54
2500	1.02	73.57
3150	1.07	76.83
** 4000	1.08	77.51
5000	1.08	77.62
	SAA = 0.90 $NRC = 0.90$	

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THE RESULTS REPORTED ABOVE APPLY ONLY TO THE SPECIFIC SAMPLE SUBMITTED FOR MEASUREMENT. NO RESPONSIBILITY IS ASSUMED FOR PERFORMANCE OF ANY OTHER SPECIMEN.



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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

Mare Sciaky

Experimentalist

Approved by

David L. Moyer

Laboratory Manager

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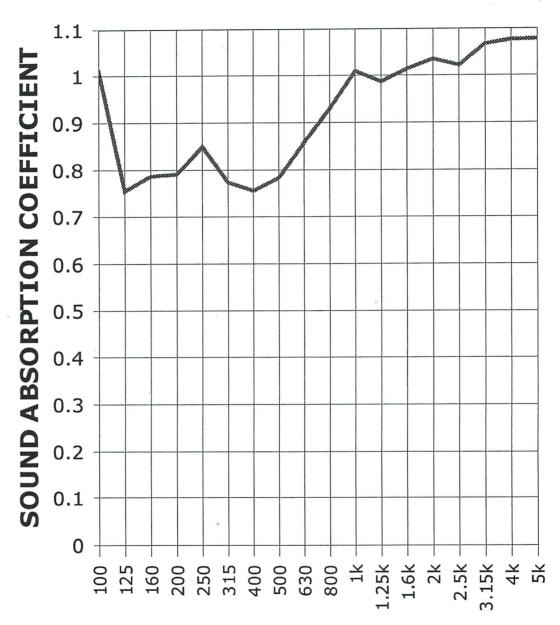
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FREQUENCY (Hz)

SAA = 0.90

NRC = 0.90

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