

TEST REPORT

FOR: Audimute Soundproofing
Beachwood, OH

Sound Absorption Test
RAL™-A10-010

ON: Audimute Acoustical Absorption Bass Trap 4" Eco-c-Tex

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CONDUCTED: 18 January 2010

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 C423-08a 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 client as Audimute Acoustical Absorption Bass Trap 4" Eco-c-Tex. The overall dimensions of the specimen as measured were nominally 2.44 m (96 in.) wide by 2.74 m (108 in.) long and 102 mm (4 in.) thick. The specimen consisted of twenty (20) pieces. Sixteen (16) pieces were nominally 610 mm (24 in.) wide by 1.22 m (48 in.) long. Four (4) pieces were nominally 305 mm (12 in.) wide by 1.22 m (48 in.) long. All pieces were 51 mm (2 in.) thick. The specimen was tested in the laboratory's 292 m³ (10,311 ft³) test chamber.

The weight of the entire specimen as measured was 32.2 kg (71 lbs), an average of 4.84 kg/m² (0.99 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 59% 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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THE RESULTS REPORTED ABOVE APPLY ONLY TO THE SPECIFIC SAMPLE SUBMITTED FOR MEASUREMENT. NO RESPONSIBILITY IS ASSUMED FOR PERFORMANCE OF ANY OTHER SPECIMEN.



NVLAP Lab Code 100227-0

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TEST RESULTS

1/3 Octave Center Frequency (Hz)	Absorption Coefficient	Total Absorption In Sabins
100	0.66	47.18
** 125	0.94	68.02
160	1.09	78.82
200	1.29	93.17
** 250	1.29	92.62
315	1.30	93.30
400	1.30	93.60
** 500	1.19	86.03
630	1.17	83.91
800	1.11	79.93
** 1000	1.05	75.65
1250	1.06	76.47
1600	1.04	74.92
** 2000	1.06	76.07
2500	1.11	79.90
3150	1.09	78.73
** 4000	1.09	78.32
5000	1.13	81.52

SAA = 1.16

NRC = 1.15

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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  Approved by 
Dean Victor
Senior Experimentalist
David L. Moyer
Laboratory Manager

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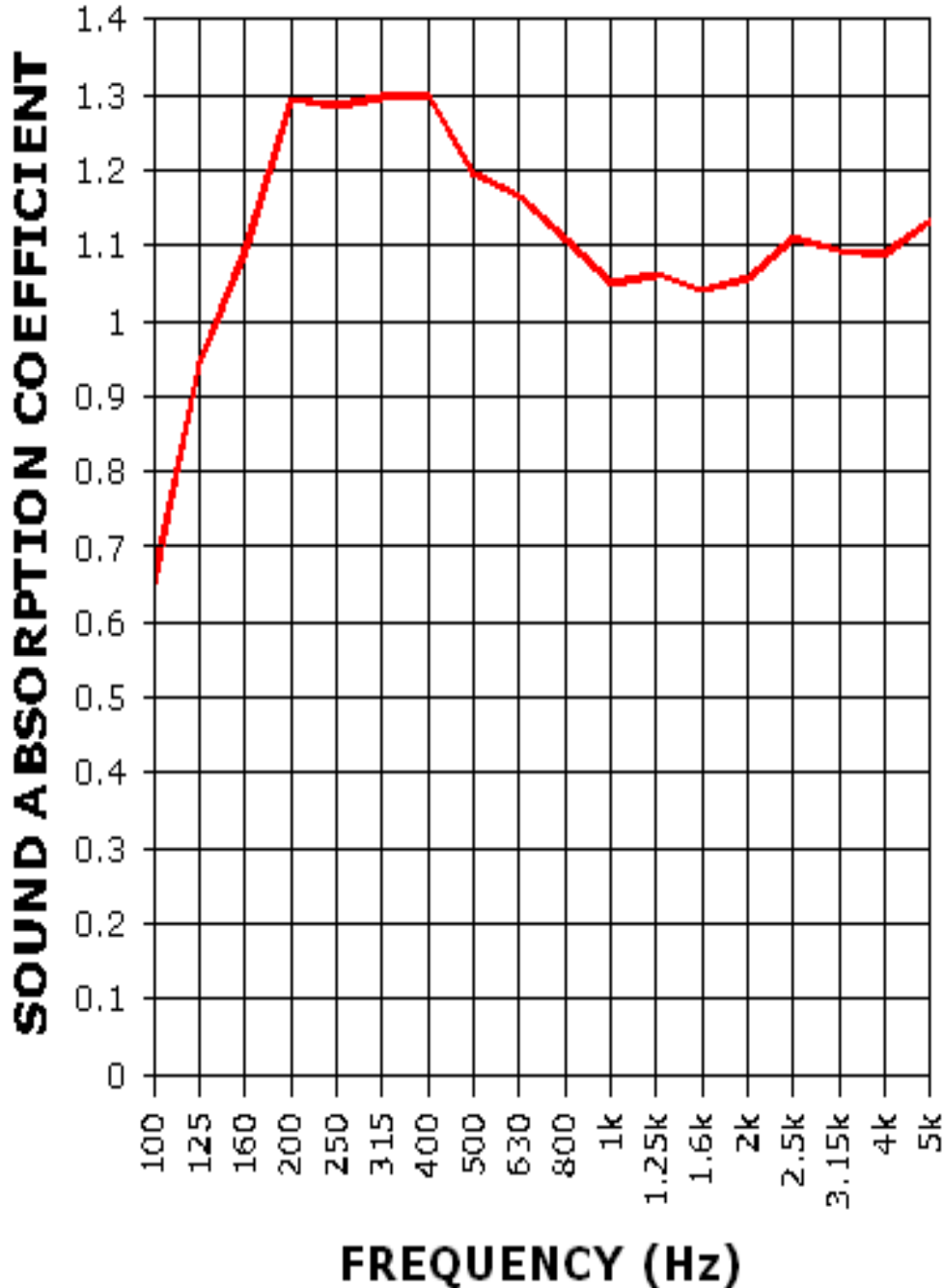


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TEST REPORT

**SOUND ABSORPTION REPORT
RAL-A10-010**



SAA=1.16

NRC=1.15

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