

TEST REPORT

FOR: Asona Benelux BV
Amstelveen, The Netherlands

Sound Absorption Test
RAL™-A11-165

ON: Sonacoustic Ceiling and/or Wall Construction

Page 1 of 4

CONDUCTED: 10 August 2011

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 C423-09a 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 Sonacoustic ceiling and/or wall construction. The overall dimensions of the specimen as measured were nominally 2.41 m (95 in.) wide by 2.74 m (108 in.) long and 25 mm (1 in.) thick. The specimen consisted of six (6) pieces. Four (4) pieces were nominally 1.21 m (47.5 in.) wide by 1.04 m (41 in.) long. Two (2) pieces were nominally 1.21 m (47.5 in.) wide by 635 mm (25 in.) long, consisting of rigid 19 mm (0.75 in.) thick fiberglass with a nominal 4 mm (0.15 in.) thick coating on one side. The specimen was tested in the laboratory's 292 m³ (10,311 ft³) test chamber.

The weight of the entire specimen as measured was 19.1 kg (42 lbs), an average of 2.9 kg/m² (0.59 lbs/ft²). The area used in the calculations was 6.6 m² (71.2 ft²). The room temperature at the time of the test was 22°C (71°F) and 60±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 ONLY TO THE SPECIFIC SAMPLE SUBMITTED FOR MEASUREMENT. NO RESPONSIBILITY IS ASSUMED FOR PERFORMANCE OF ANY OTHER SPECIMEN.



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Alion Science and Technology

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TEST REPORT

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RAL™-A11-165

10 August 2011

Page 2 of 4

TEST RESULTS

1/3 Octave Center Frequency (Hz)	Absorption Coefficient	Total Absorption In Sabins
100	0.11	7.90
** 125	0.14	9.69
160	0.18	12.71
200	0.30	21.31
** 250	0.45	31.87
315	0.67	47.55
400	0.80	56.68
** 500	0.89	63.59
630	0.95	67.72
800	0.94	67.20
** 1000	0.95	67.62
1250	1.01	71.63
1600	0.93	66.20
** 2000	0.88	62.91
2500	0.87	62.10
3150	0.83	59.30
** 4000	0.80	56.78
5000	0.80	56.86

SAA = 0.80

NRC = 0.80

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NVLAP Lab Code 100227-0

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Page 3 of 4

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 Marc Sciaky Approved by David L. Moyer
Marc Sciaky Experimentalist David L. Moyer Laboratory Manager

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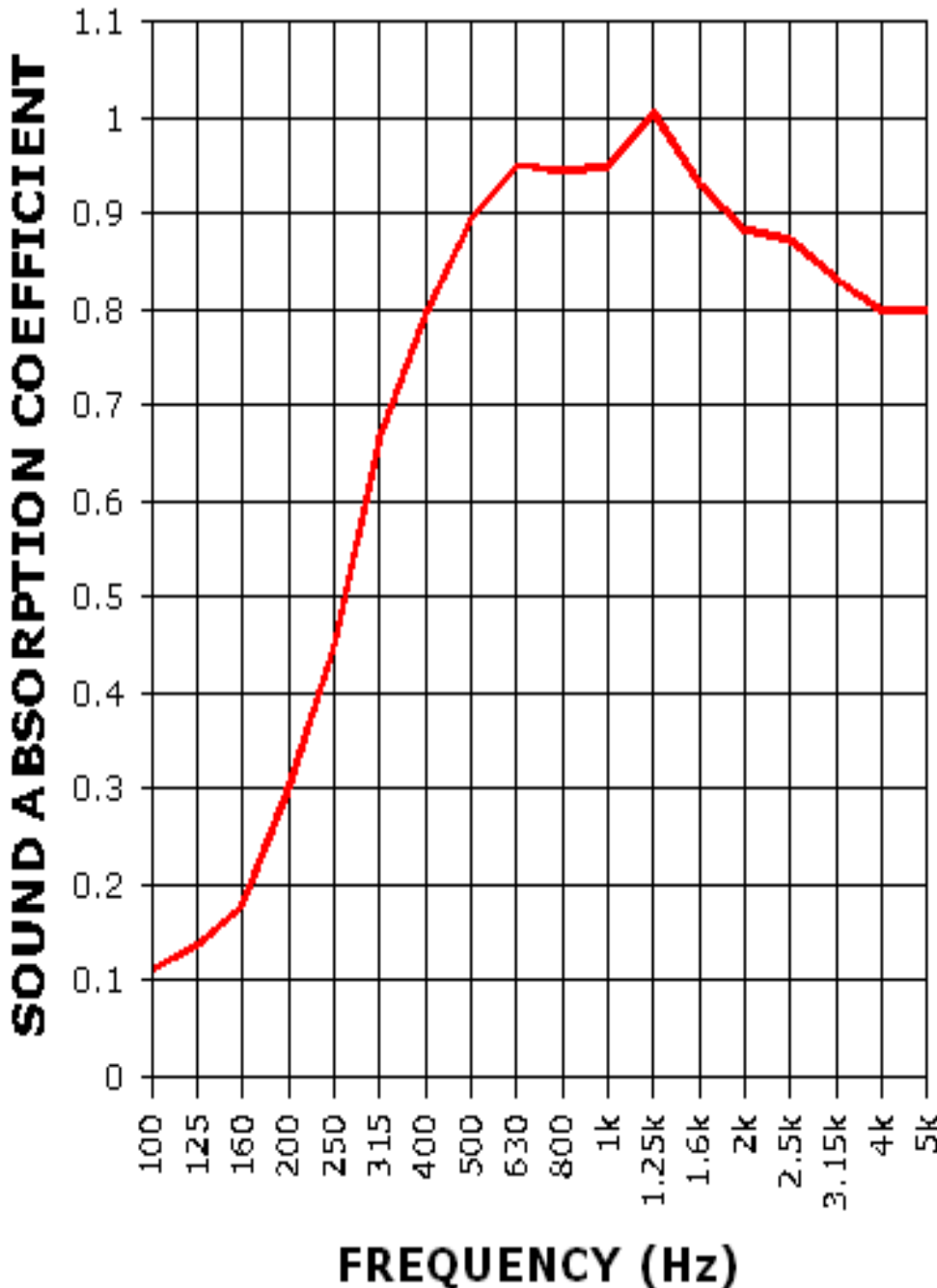


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TEST REPORT

**SOUND ABSORPTION REPORT
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**SAA=0.80
NRC=0.80**

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