



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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We Identify and S.T.O.P. Your Noise Problems

RIVERBANK ACOUSTICAL LABORATORIES

1512 S. BATAVIA AVENUE
GENEVA, ILLINOIS 60134

Alion Science and Technology

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FOR: Rendered by Manufacturer and Released to:
Acoustical Surfaces, Inc.
123 Columbia Court North, Chaska, MN 55318

Sound Transmission Loss Test
RAL™ IL07-137

ON: 1 Lb. Sound Deading - Cloth Face

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CONDUCTED: 24 May 2007

TEST METHOD

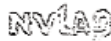
Unless otherwise designated, the measurements reported below were made with all facilities and procedures in explicit conformity with the ASTM Designations E90-04 and E413-04, as well as other pertinent standards. Riverbank Acoustical Laboratories has been accredited by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) for this test procedure (NVLAP Lab Code: I00227-0). A description of the measuring technique is available separately.

DESCRIPTION OF THE SPECIMEN

The test specimen was designated by the manufacturer as 1 lb. sound deading - cloth face. The overall dimensions of the specimen as measured were 1.22 m (48 in.) wide by 2.44 m (96 in.) high and 3.3 mm (0.13 in.) thick. The specimen was placed directly in the laboratory's 1.22 m (4 ft) by 2.44 m (8 ft) test opening and was sealed on the periphery (both sides) with a dense mastic.

The weight of the specimen as measured was 16.1 kg (35.5 lbs), an average of 5.4 kg/m² (1.1 lbs/ft²). The transmission area used in the calculations was 3 m² (32 ft²). The source and receiving room temperatures at the time of the test were 24±1°C (75±1°F) and 51±1% relative humidity. The source and receive reverberation room volumes were 178 m³ (6,298 ft³) and 135 m³ (4,766 ft³), respectively.

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NVLAP Lab Code I00227-0

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TEST REPORT REFERENCE

RALTM-1L07-137

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TEST RESULTS

Sound transmission loss values are tabulated at the eighteen standard frequencies. A graphic presentation of the data and additional information appear on the following pages. The precision of the TL test data is within the limits set by the ASTM Standard E90-04.

<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>	<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>
100	17	0.63		800	25	0.18	4
125	17	0.67		1000	27	0.16	3
160	17	1.01		1250	29	0.17	2
200	17	0.48		1600	31	0.11	
250	18	0.40	2	2000	33	0.12	
315	19	0.32	4	2500	34	0.11	
400	20	0.32	6	3150	36	0.06	
500	22	0.25	5	4000	37	0.06	
630	24	0.23	4	5000	38	0.05	

STC=27

ABBREVIATION INDEX

FREQ = FREQUENCY, HERTZ, (cps)
 T.L. = TRANSMISSION LOSS, dB
 C.L. = UNCERTAINTY IN dB, FOR A 95% CONFIDENCE LIMIT
 DEF = DEFICIENCIES, dB<STC CONTOUR (SUM OF DEF = 30)
 STC = SOUND TRANSMISSION CLASS

Tested by

Marc Sciaky
 Marc Sciaky
 Experimentalist

Approved by

David L. Moyer
 David L. Moyer
 Laboratory Manager

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NVLAP Lab Code 160227-0

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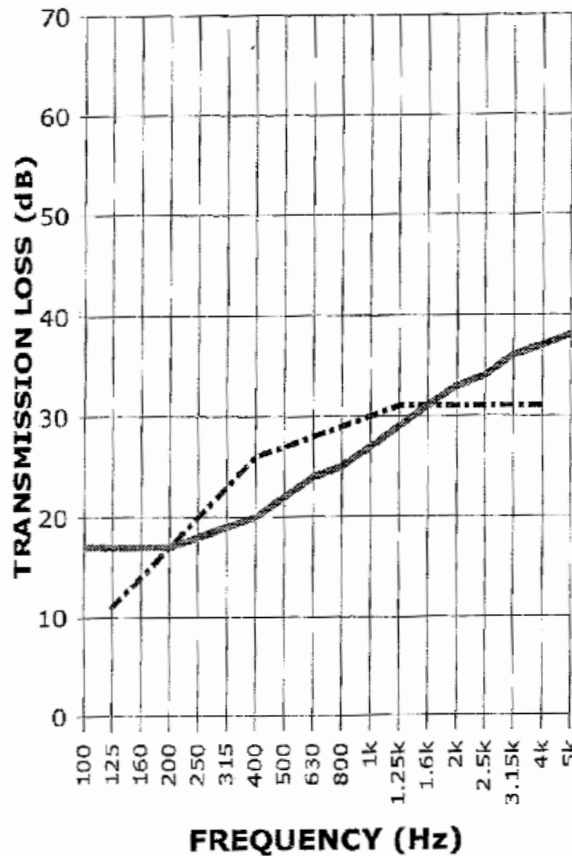
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SOUND TRANSMISSION REPORT
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STC = 27

TRANSMISSION LOSS
SOUND TRANSMISSION LOSS CONTOUR

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