

TEST REPORT

FOR: Audimute Soundproofing
Cleveland, OH

Sound Transmission Loss Test
RAL™-TL08-204

ON: 6.4 mm Thick Peacemaker Recycled Rubber Composite

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CONDUCTED: 17 July 2008

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: 100227-0). A description of the measuring technique is available separately.

DESCRIPTION OF THE SPECIMEN

The test specimen was designated by the manufacturer as 6.4 mm thick Peacemaker Recycled Rubber Composite. The overall dimensions of the specimen as measured were 1.22 m (48 in.) wide by 2.44 m (96 in.) high and 7 mm (0.26 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 dense mastic.

The manufacturer's description of the specimen was as follows: Peacemaker recycled rubber composite by Audimute Soundproofing. 6.4 mm thick and bonded by a flexible polyurethane adhesive. A visual inspection verified the manufacturer's description of the specimen.

The weight of the specimen as measured was 14.1 kg (31 lbs.) an average of 5 kg/m² (1 lb/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±2°C (75±2°F) and 49±1% relative humidity. The source and receive reverberation room volumes were 178 m³ (6,298 ft³) and 136 m³ (4,789 ft³), respectively.

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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

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	8	0.59		800	4	0.15	2
125	7	0.60		1000	4	0.12	3
160	5	0.39		1250	4	0.12	4
200	3	0.53		1600	4	0.10	4
250	5	0.29		2000	5	0.10	3
315	3	0.36		2500	5	0.09	3
400	3	0.42		3150	5	0.07	3
500	3	0.16	1	4000	5	0.05	3
630	3	0.14	2	5000	6	0.04	

STC=4

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 = 28)

STC = SOUND TRANSMISSION CLASS

Tested by _____ Approved by _____
Marc Sciaky David L. Moyer

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Alion Science and Technology

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FOUNDED 1918 BY
WALLACE CLEMENT SABINE

TEST REPORT

Experimentalist

Laboratory Manager

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