



WESTERN ELECTRO - ACOUSTIC LABORATORY

A division of Veneklasen Associates, Inc.

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SOUND TRANSMISSION LOSS TEST REPORT NO. TL06-133 revision 1

CLIENT: **Quiet Solution**
1250 Elko Drive
Sunnyvale, California 94089
TEST DATE: 20 March 2006

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10 April 2008

INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM E 90-04, *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions*. Copies of the test standard are available at www.astm.org. The test chamber source and receiving room volumes are 204 and 148.4 cubic meters respectively. Western Electro-Acoustic Laboratory is accredited by NVLAP (National Voluntary Laboratory Accreditation Program) Lab Code 100256-0 for this test procedure. NVLAP is part of the United States Department of Commerce, National Institute of Standards and Technology (NIST). This test report relates only to the item(s) tested.

Any advertising that utilizes this test report or test data must not imply product certification or endorsement by WEAL, NVLAP, NIST or the U.S. Government.

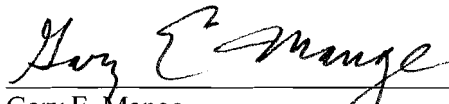
DESCRIPTION OF TEST SPECIMEN

The test specimen was a Quiet Solution QuietRock 510 wall system. The 2 x 4 wood studs were spaced horizontally at 24 inches (610 mm) O.C. and had a single 2 x 4 at the head and sill. The wood stud structure was caulked and screwed directly to the test chamber opening. On the receiving room side, a 1/2 inch (12.7 mm) thick USG gypsum panel was screwed to the studs with drywall screws at 8 inches (203 mm) O.C. on the perimeters and 12 inches (304.8 mm) O.C. in the field. A nominal 1/2 inch (12.7 mm) thick internally damped QuietRock 510 gypsum panel was screwed to the 1/2 inch drywall at 8 inches (203 mm) O.C. on the perimeters and 12 inches (304.8 mm) O.C. in the field. Panel edges and joints were caulked and covered with metal tape. The heads of the screws were covered with metal tape. All drywall was oriented vertically. On the source room side, a 1/2 inch (12.7 mm) thick USG gypsum panel was screwed to the studs with drywall screws at 8 inches (203 mm) O.C. on the perimeters and 12 inches (304.8 mm) O.C. in the field. Panel edges and joints were caulked and covered with metal tape. The heads of the screws were covered with metal tape. All drywall was oriented vertically. Nominal 3-1/2 inch (89 mm) thick Johns Manville R-13 sound insulation batts were installed in the stud space. The overall dimensions of the wall assembly were 144 inches (3.66 m) wide by 96 inches (2.44 m) high by 5 inches (127 mm) thick.

RESULTS OF THE MEASUREMENTS

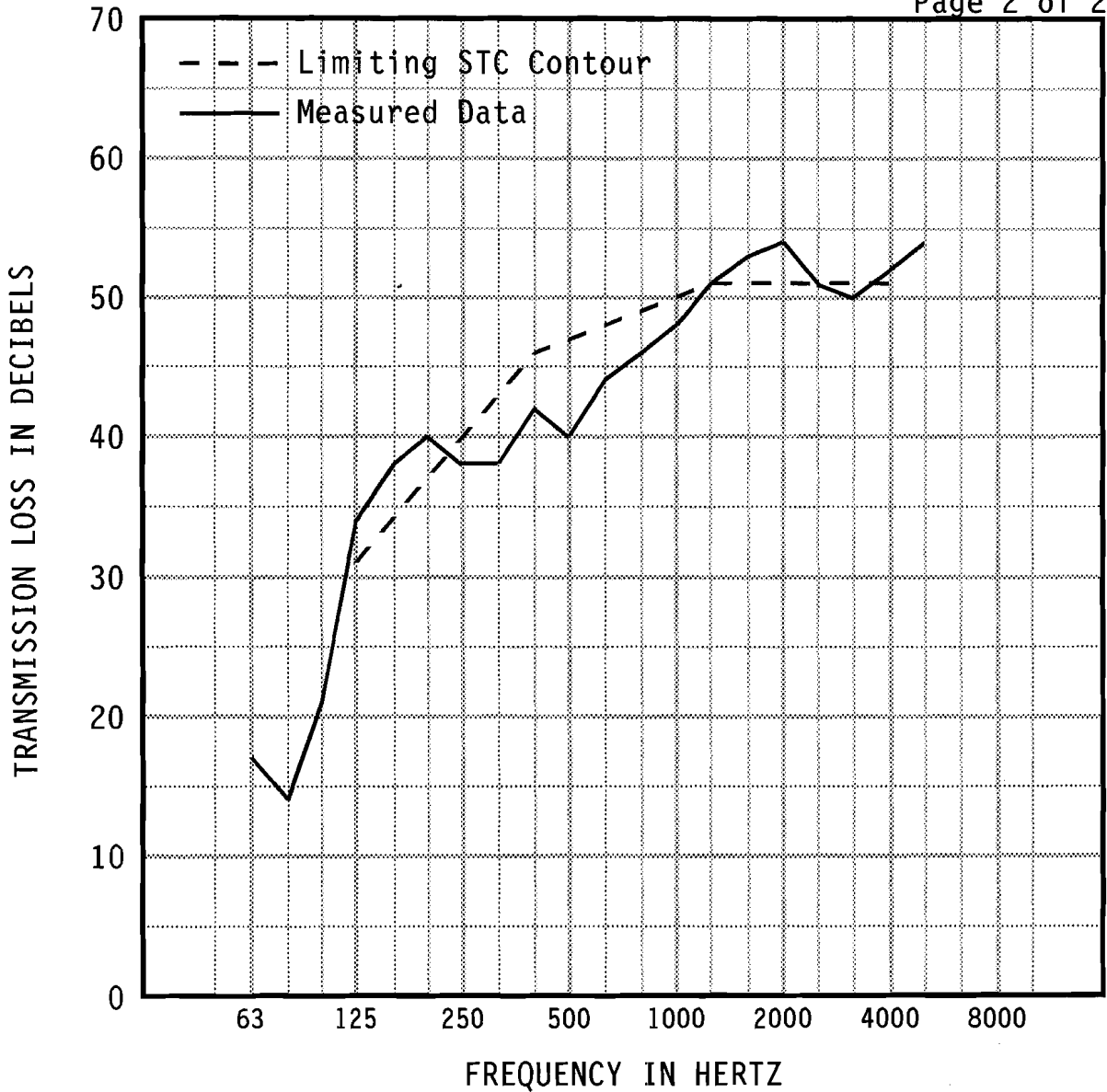
One-third octave band sound transmission loss values are plotted and tabulated on the attached sheet. ASTM minimum volume requirements are met at 80 Hz and above. The Sound Transmission Class rating determined in accordance with ASTM E 413-04 was STC-47.

Respectfully submitted,
Western Electro-Acoustic Laboratory


Gary E. Mange
Laboratory Manager

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Report No. TL06-133



1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	17	14	21	34	38	40	38	38	42	40
95% Confidence in dB deficiencies	1.42	1.92	2.07	1.47	0.89	0.76	0.80 (2)	0.52 (5)	0.36 (4)	0.38 (7)
1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	44	46	48	51	53	54	51	50	52	54
95% Confidence in dB deficiencies	0.29 (4)	0.44 (3)	0.38 (2)	0.39 (0)	0.36	0.56	0.55 (0)	0.31 (1)	0.32	0.50

EWR	OITC
48	32

Specimen Area: 96 sq.ft.
 Temperature: 66.6 deg. F
 Relative Humidity: 43 %
 Test Date: 20 March 2006

STC
47 (28)