

**SOUND TRANSMISSION LOSS TEST REPORT NO. TL06-102**

CLIENT: SUPRESS PRODUCTS LLC  
 P.O. Box 3472  
 Rafael, CA 94912

Page 1 of 2  
 19 January 2006

TEST DATE: 18 January 2006

**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](http://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 wall assembly constructed from metal studs, type X gypsum board, and Supress Sound-Engineered Drywall. The 3-5/8 inch (92.1 mm) 25 gauge metal studs were spaced horizontally at 24 inches (610 mm) O. C. and had a 3-5/8 inch (92.1 mm) 25 gauge metal head and sill track. The frame structure was caulked and screwed directly to the test chamber opening. The caulking used throughout the specimen was Supress Acoustical Sealant (AS287). On the receive room side, 5/8 inch (15.9 mm) thick type X gypsum board was screwed to the studs with 1-5/8" #7 drywall screws at 16 inches (406 mm) O.C. The drywall was oriented vertically. Panel edges and joints were sealed with AS287 sealant. Screw heads, panel edges and joints were covered with 324A foil tape. On the source room side, 3/4 inch (19.1 mm) thick Supress Sound-Engineered Drywall (SED 3448) was screwed to the studs with 2" #8 drywall screws at 16 inches (406 mm) O.C. The drywall was oriented vertically. Panel edges and joints were sealed with AS287 sealant. Screw heads, panel edges and joints were covered with 324A foil tape. Nominal 6 inch (152 mm) thick Johns Manville R-19 unfaced 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. The overall weight of the assembly was estimated to be 615 lbs. (279 kg) for a calculated surface density of 6.41 lbs./ft<sup>2</sup> (31.3 kg/m<sup>2</sup>).

**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-55.

Approved:



Gary E. Mange  
 Laboratory Manager

Respectfully submitted,  
 Western Electro-Acoustic Laboratory



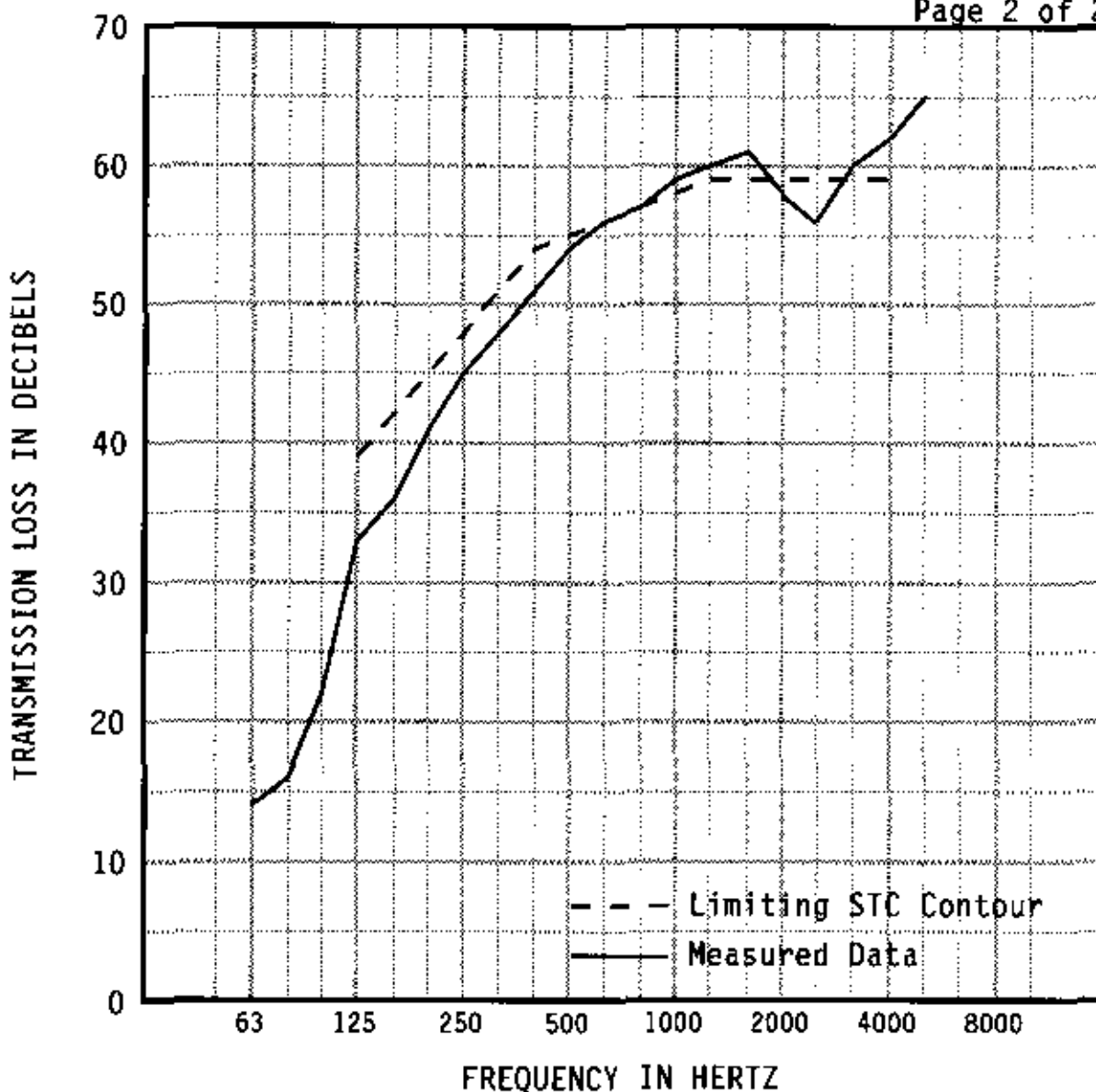
Leo Amezcua  
 Acoustical Test Technician

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# WESTERN ELECTRO-ACOUSTIC LABORATORY

Report No. TL06-102



1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	14	16	22	33	36	41	45	48	51	54
95% Confidence in dB deficiencies	1.42	1.92	2.07	1.47 (6)	0.89 (6)	0.76 (4)	0.80 (3)	0.52 (3)	0.36 (3)	0.38 (1)
1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	56	57	59	60	61	58	56	60	62	65
95% Confidence in dB deficiencies	0.29 (0)	0.44 (0)	0.38	0.39	0.36	0.56 (1)	0.55 (3)	0.31	0.32	0.50

EWR	OITC
54	34

Specimen Area: 96 sq.ft.  
 Temperature: 72.3 deg. F  
 Relative Humidity: 50 %  
 Test Date: 18 January 2006

STC
55 (30)

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