



# WESTERN ELECTRO - ACOUSTIC LABORATORY

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25132 Rye Canyon Loop Santa Clarita, California 91355 Tel: (661) 775-3741 Fax: (661) 775-3742 www.weal.com

## SOUND TRANSMISSION LOSS TEST REPORT NO. TL06-103

CLIENT: SUPRESS PRODUCTS LLC  
P.O. Box 3472  
Rafael, CA 94912  
TEST DATE: 19 January 2006

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### 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 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 both sides, 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 5-1/8 inches (130 mm) thick. The overall weight of the assembly was estimated to be 700 lbs. (318 kg) for a calculated surface density of 7.29 lbs./ft<sup>2</sup> (35.6 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-57.

Approved:

Gary E. Mange  
Laboratory Manager

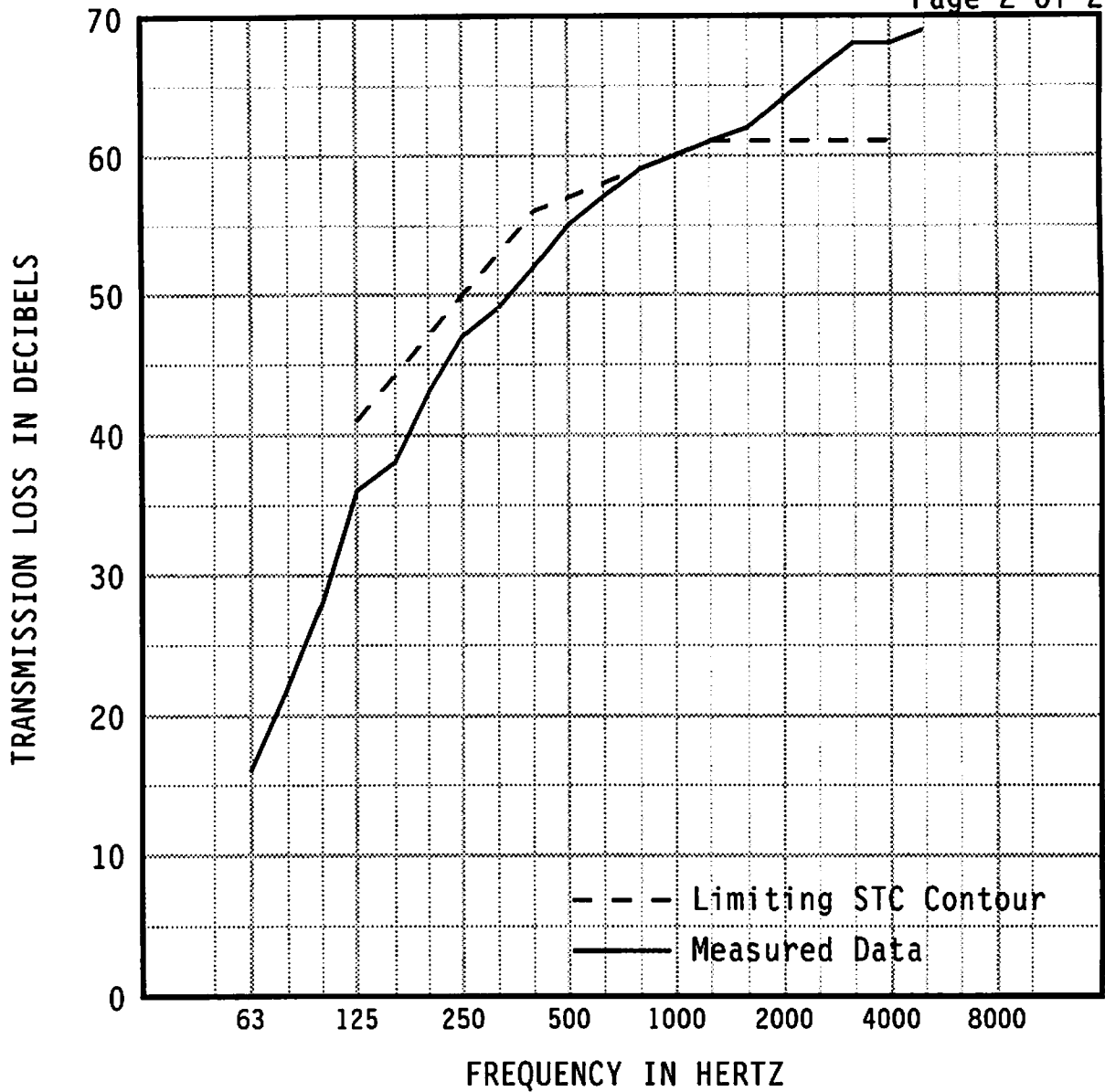
Respectfully submitted,  
Western Electro-Acoustic Laboratory

Leo Amezcua  
Acoustical Test Technician



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1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	16	22	28	36	38	43	47	49	52	55
95% Confidence in dB deficiencies	1.42	1.92	2.07	1.47 (5)	0.89 (6)	0.76 (4)	0.80 (3)	0.52 (4)	0.36 (4)	0.38 (2)
1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	57	59	60	61	62	64	66	68	68	69
95% Confidence in dB deficiencies	0.29 (1)	0.44 (0)	0.38 (0)	0.39 (0)	0.36	0.56	0.55	0.31	0.32	0.50

EWR	OITC	Specimen Area: 96 sq.ft. Temperature: 73.2 deg. F Relative Humidity: 52 % Test Date: 19 January 2006	STC
56	39		57 (29)

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