WESTERN ELECTRO - ACOUSTIC LABORATORY
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T E S T I N G • C A L I B R A T I O N • R E S E A R C H

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. TL07-496

CLIENT: **Complete Soundproofing**
3750 Riviera Dr. #3
San Diego, CA 92109
TEST DATE: 8 August 2007

9 August 2007

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 an aluminum horizontal sliding window assembly. The window consisted of a fixed panel and an operable panel and was installed by sliding it completely into the test chamber opening with a 2 inch (50.8 mm) setback on the interior (receiving room) side. The window was captured with screws on both sides and sealed into the test chamber opening with a heavy duct seal putty around the entire perimeter on both sides. The glazing consisted of 11/16 inch (17.5 mm) dual glazed units which were 3/32 inch (2.4 mm) single strength glass, 1/2 inch (12.7 mm) air space, and 3/32 inch (2.4 mm) single strength glass. The fixed panel was glazed into the main frame and the operable panel was glazed into its individual frame with a vinyl wrap around gasket. The net outside frame dimensions of the window assembly were 47-1/2 inches (1.21 m) wide by 47-1/2 inches (1.21 m) high by 2-3/4 inches (69.9 mm) deep. The overall weight of the assembly was 46.5 lbs. (21.1 kg) for a calculated surface density of 2.97 lbs./ft^2 (14.5 kg/m^2). The two weep holes were normal and open. The operable portion of the assembly was opened and closed five times immediately prior to the test.

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-25.

Approved:

Gary E. Mange
Laboratory Manager

Respectfully submitted,
Western Electro-Acoustic Laboratory

Leo Amezcua
Acoustical Test Technician

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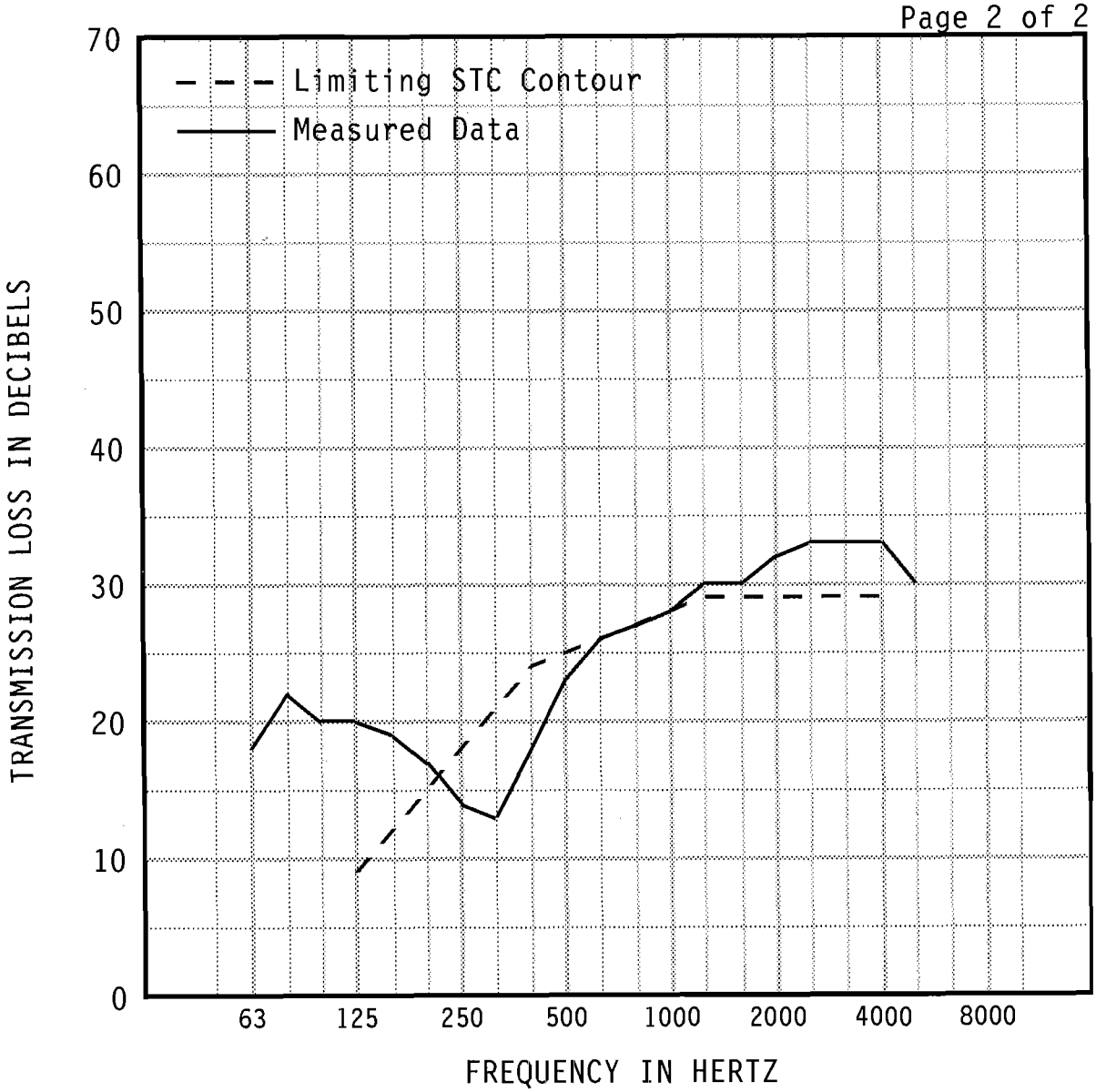
Report No. TL07-496



1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	18	22	20	20	19	17	14	13	18	23
95% Confidence in dB	1.42	1.92	2.07	1.47	0.89	0.76	0.80	0.52	0.36	0.38
deficiencies							(4)	(8)	(6)	(2)

1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	26	27	28	30	30	32	33	33	33	30
95% Confidence in dB	0.29	0.44	0.38	0.39	0.36	0.56	0.55	0.31	0.32	0.50
deficiencies	(0)	(0)	(0)							

EWR	OITC
27	21

Specimen Area: 15.67 sq.ft.
Temperature: 74.7 deg. F
Relative Humidity: 45 %
Test Date: 08 August 2007

STC
25
(20)

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