WESTERN ELECTRO - ACOUSTIC LABORATORY
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SOUND TRANSMISSION LOSS TEST REPORT NO. TL09-449

CLIENT: **AMSCO Windows**
1880 South 1045 West
P.O. Box 25368
Salt Lake City, Utah 84125
TEST DATE: 11 August 2009

3 September 2009

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 AMSCO VX-2 vinyl Picture Window assembly. The specimen was installed by screwing the nailing fin around the entire perimeter to the wood edge of the test chamber opening. The specimen was sealed into the test chamber opening with latex caulking around the entire perimeter on the source room side and a heavy duct seal putty around the entire perimeter on the receive room side. The glazing consisted of a 1 inch (25.4 mm) dual glazed unit which was 1/4 inch (6.4 mm) monolithic glass, 5/8 inch (15.9 mm) air space, and 1/8 inch (3.2 mm) double strength glass. The unit was glazed into the frame using glazing tape and a vinyl snap in bead. The net outside frame dimensions of the window assembly were 71-1/2 inches (1.82 m) wide by 47-1/2 inches (1.21 m) high by 3 inches (76 mm) deep. The overall weight of the assembly was 110 lbs. (49.9 kg) for a calculated surface density of 6.47 lbs./ft^2 (31.6 kg/m^2). The two weep holes were normal with covers.

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-32.

Respectfully submitted,
Western Electro-Acoustic Laboratory

Approved:

Gary E. Mange
Laboratory Director

Raul Martinez
Acoustical Test Technician

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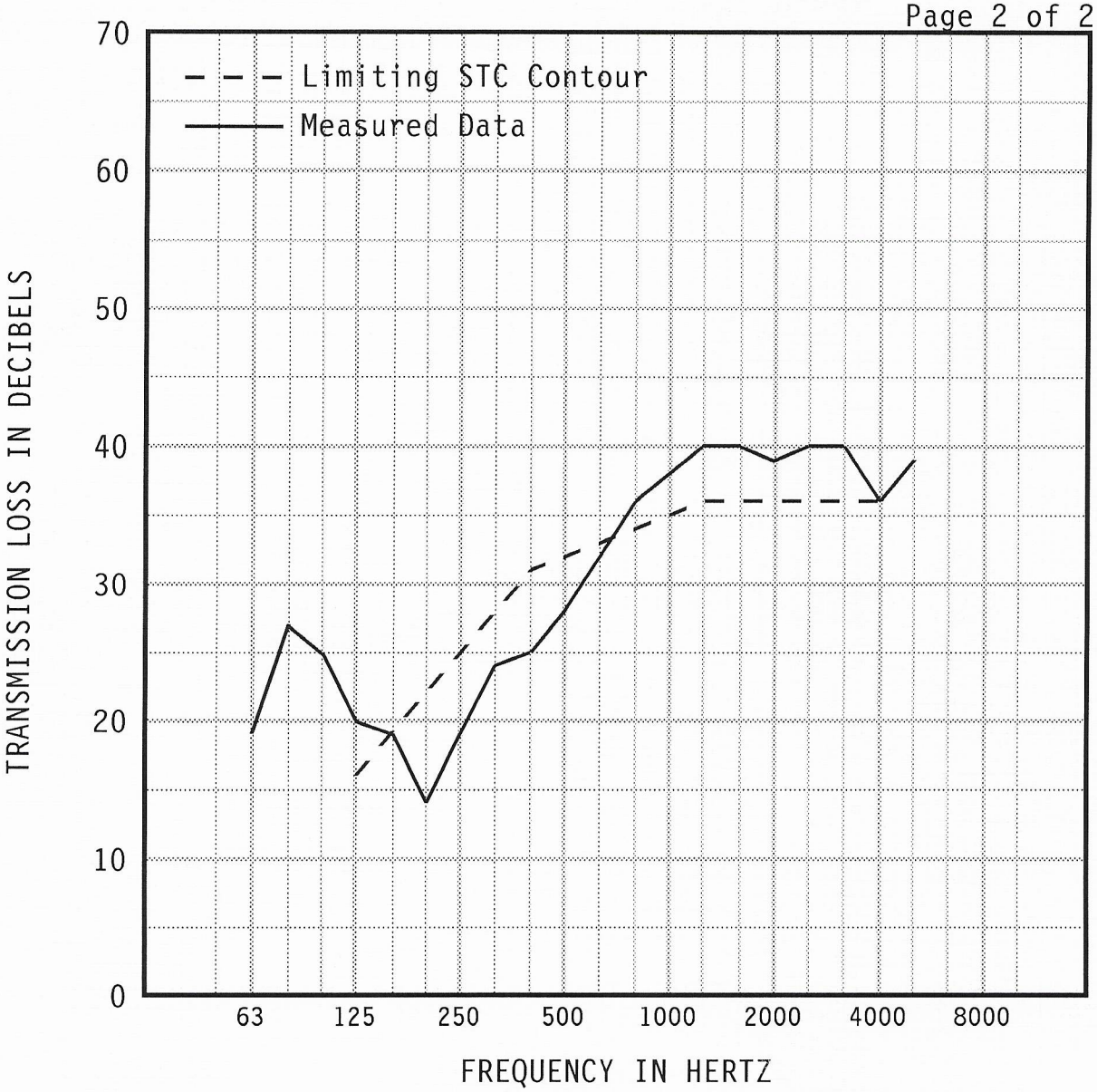

1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	19	*27	25	20	19	14	19	24	25	28
95% Confidence in dB	1.42	1.92	2.07	1.47	0.89	0.76	0.80	0.52	0.36	0.38
deficiencies					(0)	(8)	(6)	(4)	(6)	(4)

1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	32	36	38	40	40	39	40	40	36	39
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	(1)								(0)	

EWR	OITC
31	25

* Minimum estimate of transmission loss. Measurement limited by filler wall. Actual TL will be equal to or greater than value reported.

Specimen Area: 16.99 sq.ft.
Temperature: 79 deg. F
Relative Humidity: 42 %
Test Date: 11 August 2009

STC
32
(29)

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