WESTERN ELECTRO - ACOUSTIC LABORATORY
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TESTING • CALIBRATION • RESEARCH

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SOUND TRANSMISSION LOSS TEST REPORT NO. TL12-321

18 June 2012

CLIENT: **Amsco**
1880 South 1045 West
P.O. Box 25368
Salt Lake City, UT 84125
TEST DATE: 16 May 2012

INTRODUCTION

The methods and procedures used for each test conform to the provisions and requirements of ASTM E 90-09, *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions* and ASTM E2235-04$^{\varepsilon 1}$, *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods*. 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 the United States Department of Commerce, National Institute of Standards and Technology under the National Voluntary Accreditation Program (NVLAP) Lab Code 100256-0 for this test procedure. This test report relates only to the item(s) tested. This report must not be used to claim product certification, approval, or endorsement by WEAL, NVLAP, NIST or any agency of the federal government.

DESCRIPTION OF TEST SPECIMEN

The test specimen was an Amsco V91 Series 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 assembly was sealed into the test chamber opening with latex caulking under the nailing fin and a heavy duct seal putty around the entire perimeter on the receiving room side. The glazing consisted of a 25.4 mm (1 inch) dual glazed unit which was 5 mm (3/16 inch) monolithic glass, 14.3 mm (9/16 inch) air space, and 6 mm (1/4 inch) monolithic glass. The unit was glazed into the frame using glazing tape and vinyl snap in bead. The net outside frame dimensions of the window assembly were 1.82 m (71-1/2 inches) wide by 1.21 m (47-1/2 inches) high by 66.7 mm (2-5/8 inches) deep. The overall weight of the assembly was 58.1 kg (128 lbs.) for a calculated surface density of 26.5 kg/m^2 (5.43 lbs./ft^2).

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 Outdoor-Indoor Transmission Class rating determined in accordance with ASTM E 1332-90(2003) was OITC-27. The Sound Transmission Class rating determined in accordance with ASTM E 413-04 was STC-33.

Approved:

Gary E. Mange
Laboratory Director

Respectfully submitted,
Western Electro-Acoustic Laboratory

Raul Martinez
Acoustical Test Technician

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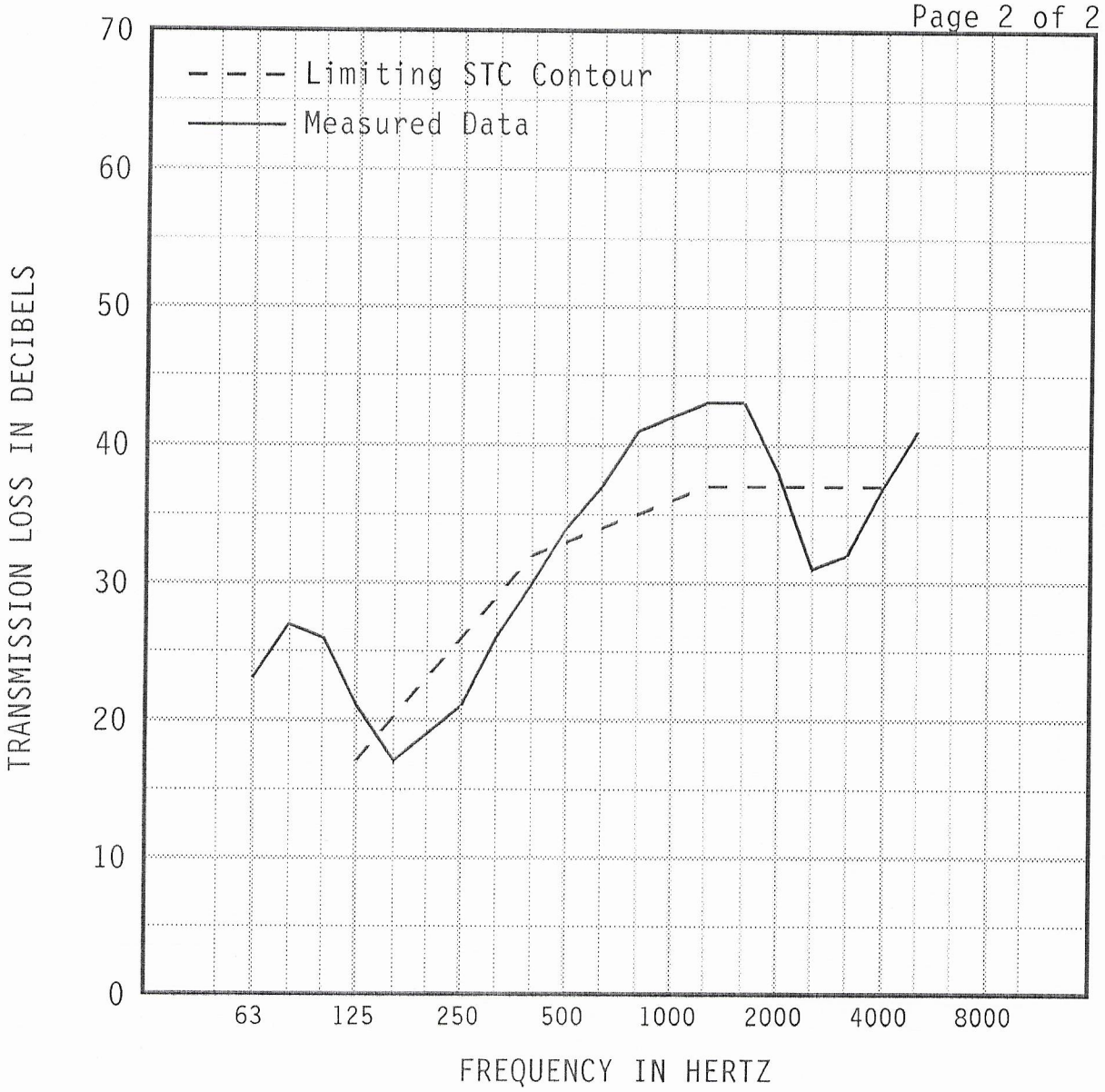

1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	*23	27	26	21	17	19	21	26	30	34
95% Confidence in dB	1.42	1.92	2.07	1.47	0.89	0.76	0.80	0.52	0.36	0.38
deficiencies					(3)	(4)	(5)	(3)	(2)	

1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	37	41	42	43	43	38	31	32	37	41
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							(6)	(5)	(0)	

EWR	OITC
34	27

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

Specimen Area: 23.59 sq.ft.
Temperature: 73.8 deg. F
Relative Humidity: 44 %
Test Date: 16 May 2012

STC
33
(28)