



WESTERN ELECTRO - ACOUSTIC LABORATORY

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TESTING • CALIBRATION • RESEARCH

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SOUND TRANSMISSION LOSS TEST REPORT NO. TL09-463

CLIENT: AMSCO WINDOWS
1880 South 1045 West
P.O. Box 25368
Salt Lake City, Utah 84125
TEST DATE: 12 August 2009

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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. 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 Series vinyl horizontal sliding window assembly with equal sight lines. The specimen consisted of a fixed panel and an operable panel. 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 3/4 inch (19.1 mm) dual glazed units which were 1/4 inch (6.4 mm) monolithic glass, 3/8 inch (9.5 mm) air space, and 1/8 inch (3.2 mm) double strength glass. There was a fixed insert with a rubber leaf seal at the perimeter which was screw attached to the main frame. The fixed unit was glazed into the fixed insert and the operable unit was glazed into its individual frame using glazing tape and a vinyl snap in bead. The weather stripping used on the operable panel was 260 high 187 back (.260 inch x .187 inch) fin seal on the exterior perimeter and on the fixed panel meeting rail. 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 3-1/4 inches (83 mm) deep. The overall weight of the assembly was 115 lbs. (52.2 kg) for a calculated surface density of 6.77 lbs./ft² (33 kg/m²). The two weep holes were normal with covers. 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-31.

Approved:


Gary E. Mange
Laboratory Director

Respectfully submitted,
Western Electro-Acoustic Laboratory


Raul Martinez
Acoustical Test Technician

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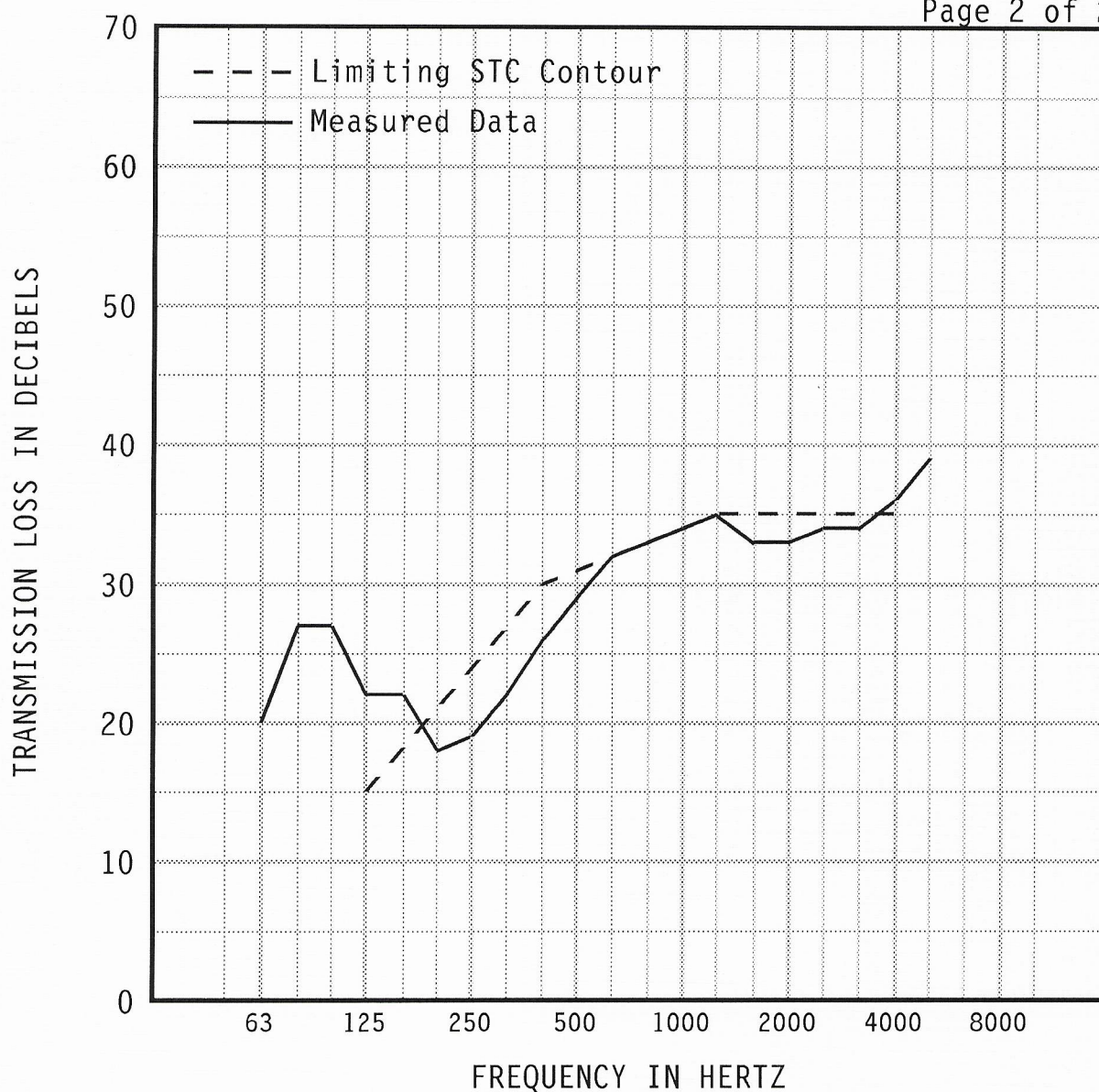


NVLAP LAB CODE 100256-0

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1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	20	27	27	22	22	18	19	22	26	29
95% Confidence in dB deficiencies	1.42	1.92	2.07	1.47	0.89	0.76 (3)	0.80 (5)	0.52 (5)	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	32	33	34	35	33	33	34	34	36	39
95% Confidence in dB deficiencies	0.29 (0)	0.44 (0)	0.38 (0)	0.39 (0)	0.36 (2)	0.56 (2)	0.55 (1)	0.31 (1)	0.32	0.50
EWR	OITC	Specimen Area: 16.99 sq.ft. Temperature: 78.1 deg. F Relative Humidity: 42 % Test Date: 12 August 2009								STC
32	26									31 (25)

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