



SOUND TRANSMISSION LOSS TEST REPORT NO. TL08-309

CLIENT: **Soundproof Windows**
4673 Aircenter Circle
Reno, NV 89502

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15 August 2008

TEST DATE: 18 April 2008

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 consisted of an exterior vinyl sliding glass door and a Soundproof Window interior sliding glass door assembly. The exterior door was a vinyl Milgard® Style Line™ Series sliding glass door. The exterior door consisted of an operable panel and a fixed panel and was installed by screwing the nailing fin around the entire perimeter to the wood edge of the test chamber opening. The door was sealed into the test chamber opening with a heavy duct seal putty around the entire perimeter on both sides. The glazing consisted of 3/4 inch (19.1 mm) dual glazed units which were 3/16 inch (4.8 mm) monolithic glass, 7/16 inch (11.1 mm) air space, and 1/8 inch (3.2 mm) double strength glass. The fixed unit was glazed directly into the main frame 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 exterior door was 240 high 187 back (.240 in. x .187 in.) fin seal around the entire exterior perimeter of the operable panel. The two weep holes on the exterior door were normal with covers. The interior sliding glass door assembly was manufactured by Soundproof Windows. The interior door consisted of two operable panels and was installed by screwing the frame to the wood around the perimeter of the test chamber opening. The interior door frame was sealed into the test chamber opening with a heavy duct seal putty around the entire perimeter on the interior side. The glazing consisted of 7/32 inch (5.6 mm) laminated glass with .030 PVB inner layer. Both lites were marine glazed with a wrap around gasket. The nominal spacing between the doors at the fixed panel was 4-3/4 inches (121 mm) and at the operable panel was 4 inches (102 mm) glass to glass. The weather stripping used on the door consisted of 350 high 270 back fin seal around the entire interior and exterior perimeter of the both door panels. The net outside frame dimensions of the door assemblies were 71-1/2 inches (1.82 m) wide by 79-1/2 inches (2.02 m) high by 10 inches (254 mm) deep. The overall weight of the entire assembly was 182 lbs. (82.6 kg) for a calculated surface density of 4.61 lbs./ft² (22.5 kg/m²). All operable portions of the assembly were opened and closed five times immediately prior to the test.

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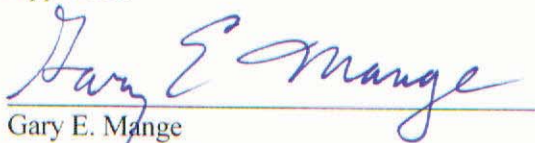
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RESULTS OF THE MEASUREMENTS

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-50.

Approved:



Gary E. Mange
Laboratory Director

Respectfully submitted,
Western Electro-Acoustic Laboratory

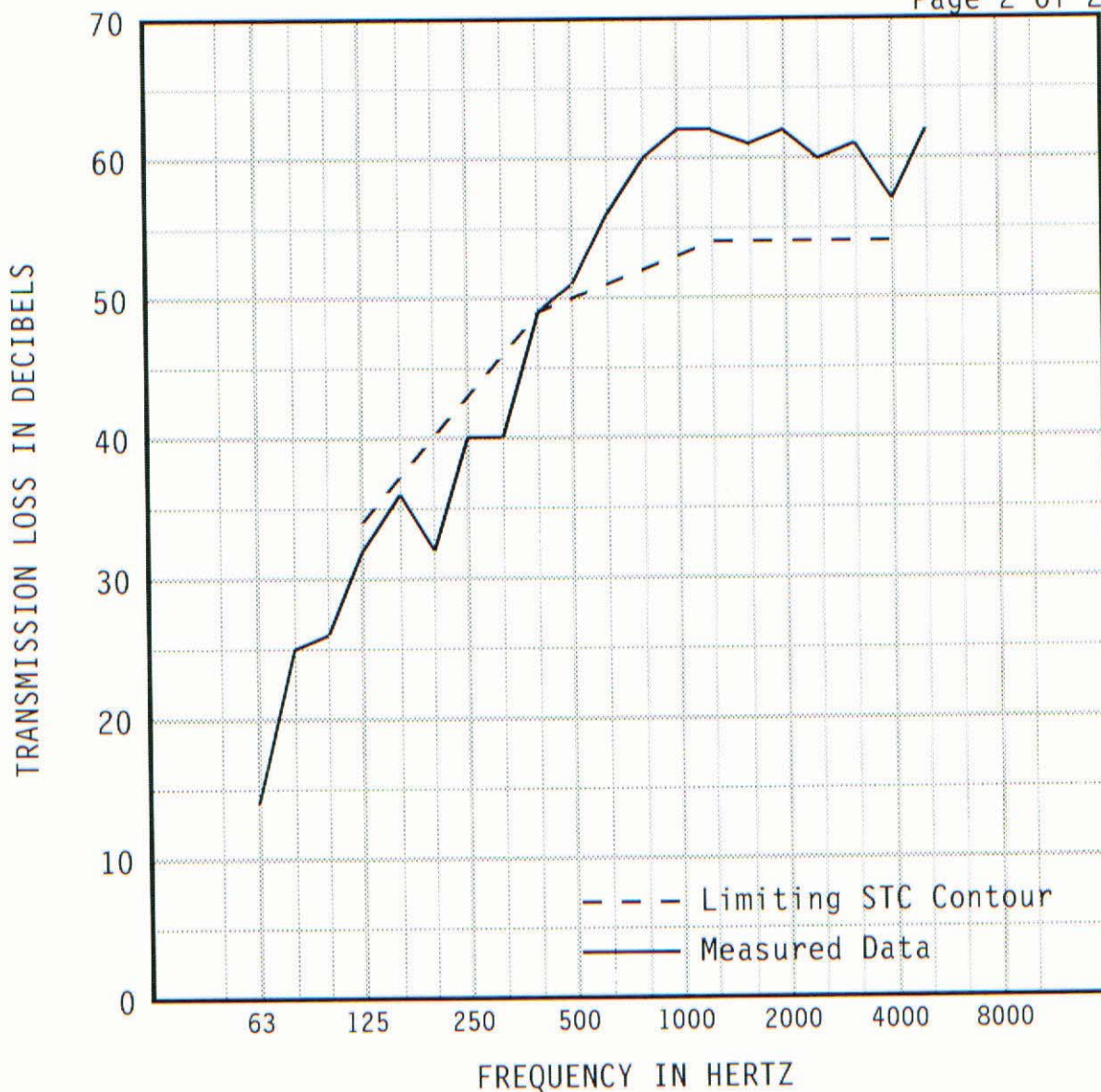


Raul Martinez
Acoustical Test Technician

WESTERN ELECTRO-ACOUSTIC LABORATORY

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1/3 OCT BND CNTR	FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB		14	25	26	32	36	32	40	40	49	51
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					(2)	(1)	(8)	(3)	(6)	(0)	
1/3 OCT BND CNTR	FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB		56	60	62	62	61	62	60	61	57	62
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											

EWR	OITC
50	39

Specimen Area: 39.47 sq.ft.
 Temperature: 73 deg. F
 Relative Humidity: 31 %
 Test Date: 18 April 2008

STC
 50
 (20)

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