

WESTERN ELECTRO - ACOUSTIC LABORATORY

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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. TL08-306

CLIENT:

Soundproof Windows

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4673 Aircenter Circle

6 October 2008

Reno, NV 89502

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 piece of glass and a Soundproof Window interior window assembly. The exterior was a blind stopped sheet of 1/8 inch (3.2 mm) monolithic annealed glass, sealed with putty around edges. The interior window assembly was manufactured by Soundproof Windows. The interior window 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 window 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 windows at one panel was 2-1/4 inches (57 mm) and at the other panel was 3 inches (76 mm) glass to glass. The weather stripping used on both panels of the interior window was a Qlon bulb seal at the interlock and a custom designed 3 finger vinyl seal on the frame at the sides. The sill and head were frame sealed using a custom tension sealed glide track. The net outside frame dimensions of the window assemblies were 71-1/2 inches (1.82 m) wide by 47-1/2 inches (1.21 m) high by 8 inches (203 mm) deep. The overall weight of the assembly was 146 lbs. (66.2 kg) for a calculated surface density of 6.19 lbs./ft² (30.2 kg/m²). All operable portions of the assembly were opened and closed five times immediately prior to the test.

RESULTS OF THE MEASUREMENTS

mange

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-43.

Approved:

Respectfully submitted,

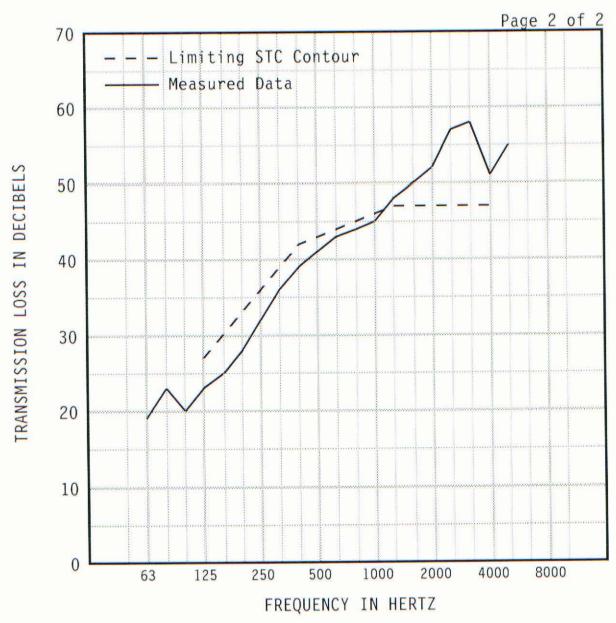
Western Electro-Acoustic Laboratory

Gary E. Mange Laboratory Director Raul Martinez

Acoustical Test Technician

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1/3 OCT BND CNTR FREQ TL in dB 95% Confidence in dB deficiencies			19	80 23 1.92	100 20 2.07	125 23 1.47 (4)	160 25 0.89 (5)	200 28 0.76 (5)	250 32 0.80 (4)	315 36 0.52 (3)	400 39 0.36 (3)	500 41 0.38 (2)
1/3 OCT BND CNTR FREQ TL in dB 95% Confidence in dB deficiencies			630 43 0.29 (1)	800 44 0.44 (1)	45	1250 48	1600 50	2000	2500 57 0.55	3150 58	4000 51 0.32	5000 55
EWR 42	0ITC 32	C Specimen Area: 23.59 sq.ft.										STC 43 (29)

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