WESTERN ELECTRO - ACOUSTIC LABORATORY
A division of Veneklasen Associates, Inc.

T E S T I N G • C A L I B R A T I O N • R E S E A R C H

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. TL07-737

CLIENT: **West Coast Vinyl Windows**
17744 Crusader Ave.
Cerritos, CA 90703
TEST DATE: 3 December 2007

9 January 2008

INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM E 90-02, *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions*. Details of the procedure will be furnished upon request. 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 West Coast Vinyl Windows 4501ADA vinyl French pre-hung door assembly. The frame was 3-3/16 inch (80.5 mm) wide by 3-1/4 inch (82.5 mm) deep vinyl on the top and sides. At the bottom was a Columbia #2760 ADA Aluminum threshold. 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 a heavy duct seal putty around the entire perimeter on both sides. The door panel was vinyl with a large vision lite. The vision glass was approximately 27 inches (686 mm) by 78 inches (1.98 m) and consisted of a nominal 1 inch (25.4 mm) thick dual glazed unit which was 1/4 inch (6.35 mm) laminated glass, 9/16 inch (14.3 mm) air space, and 3/16 inch (4.76 mm) monolithic glass. The 1/4 inch (6.35 mm) laminated glass utilized a .030 inch (.76 mm) interlayer. The unit was glazed into the sash frame using Rehau #865020 glazing spline and Rehau part # 560600 glazing bead. The overall thickness of the door panel was 1-3/4 inches (44.5 mm) and it was hung on four Winkhaus #1064288 4 inch (102 mm) hinges. A Hoppe HLS9000 4 roller multipoint locking gear with adjustable latch plate was used with lever handles. The weather stripping used was Rehau #864952 Sash/Frame Seal consisting of a bulb with 2 fingers on both jambs and head on the main frame. A Columbia #6670 door sweep was installed at the bottom on the exterior side of the door panel. The net outside frame dimensions of the door assembly were 38-1/2 inches (978 mm) wide by 99-5/8 inches (2.53 m) high by 3-1/4 inches (82.5 mm) deep. The dimensions of the door panel were 35-13/16 inches (910 mm) wide by 95-1/16 inches (2.41 m) high by 1-3/4 inches (44.5 mm) thick. The overall weight of the assembly was 156 lbs. (70.8 kg). The operable portion of the assembly was opened and closed five times immediately prior to the test in accordance with Appendix A1.8.3.

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-36

Approved:

Gary E. Mange
Laboratory Manager

Respectfully submitted,
Western Electro-Acoustic Laboratory

Raul Martinez
Acoustical Test Technician

NVLAP

WESTERN ELECTRO-ACOUSTIC LABORATORY

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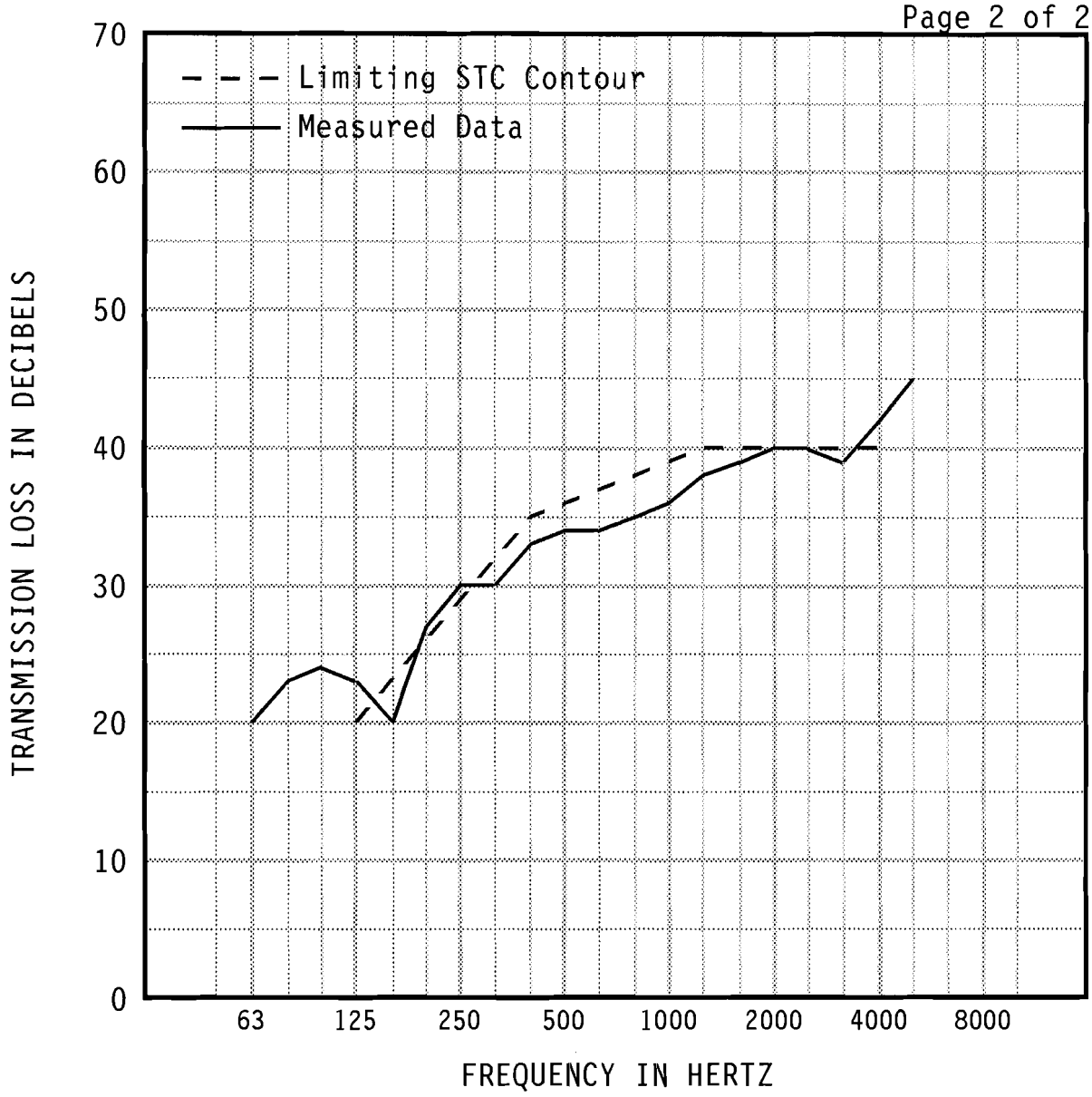

1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	20	23	24	23	20	27	30	30	33	34
95% Confidence in dB	1.42	1.92	2.07	1.47	0.89	0.76	0.80	0.52	0.36	0.38
deficiencies					(3)			(2)	(2)	(2)

1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	34	35	36	38	39	40	40	39	42	45
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	(3)	(3)	(3)	(2)	(1)	(0)	(0)	(1)		

EWR	OITC
37	30

Specimen Area: 26.6 sq.ft.
Temperature: 70.7 deg. F
Relative Humidity: 31 %
Test Date: 03 December 2007

STC
36
(22)

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