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

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SOUND TRANSMISSION LOSS TEST REPORT NO. TL07-577

CLIENT: **REHAU**
4254 Green River Road
Corona, CA 92880-1669
TEST DATE: 21 September 2007

1 November 2007

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 a West Coast Vinyl Windows 4500 Double Outswing vinyl glass door. 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 glazing consisted of nominal 1-3/8 inch (34.9 mm) dual glazed units which were 5/16 inch (7.9 mm) laminated glass, 13/16 inch (20.6 mm) air space, and 1/4 inch (6.4 mm) laminated glass. The 5/16 inch (7.9 mm) laminated glass utilized a .060 inch (1.52 mm) interlayer and the 1/4 inch (6.4 mm) laminated glass utilized a .030 inch (.76 mm) interlayer. The units were glazed into the sash frames using 1/8 inch (3.2 mm) thick glazing tape and a vinyl snap in bead. The weather stripping used was part #864950 Sash/Frame Seal consisting of a bulb with 2 fingers on the full exterior perimeter of the main frame and on the full interior perimeter of the sash. The net outside frame dimensions of the door assembly were 72 inches (1.8 m) wide by 80 inches (2 m) high by 3-1/4 inches (82.5 mm) deep. The overall weight of the assembly was 344 lbs. (156 kg) for a calculated surface density of 8.6 lbs./ft^2 (42 kg/m^2). 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-38.

Approved:

Gary E. Mange
Laboratory Manager

Respectfully submitted,
Western Electro-Acoustic Laboratory

Raul Martinez
Acoustical Test Technician

NVLAP

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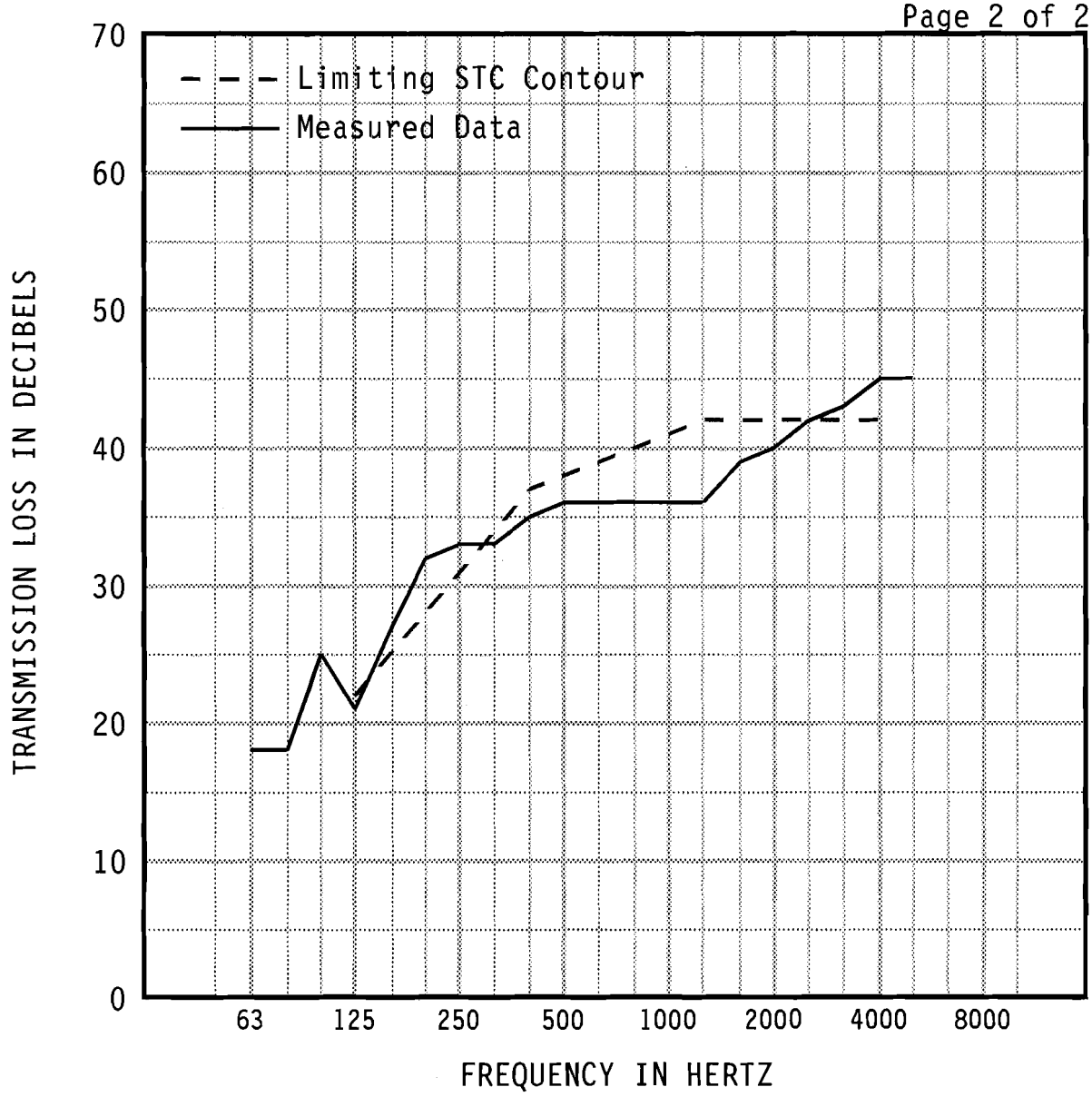

1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	18	18	25	21	27	32	33	33	35	36
95% Confidence in dB	1.42	1.92	2.07	1.47	0.89	0.76	0.80	0.52	0.36	0.38
deficiencies				(1)				(1)	(2)	(2)

1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	36	36	36	36	39	40	42	43	45	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)	(4)	(5)	(6)	(3)	(2)	(0)			

EWR	OITC
39	31

Specimen Area: 40 sq.ft.
Temperature: 74.7 deg. F
Relative Humidity: 40 %
Test Date: 21 September 2007

STC
38
(29)

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