WESTERN ELECTRO - ACOUSTIC LABORATORY, INC.

TESTING • CALIBRATION • RESEARCH • CONSULTING

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SOUND TRANSMISSION LOSS TEST REPORT NO. TL01-555

CLIENT: FLEETWOOD
2485 Railroad Street
Corona, California 91720

TEST DATE: 13 November 2001

15 November 2001

INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM E 90-99, *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 the United States Department of Commerce, National Institute of Standards and Technology under the National Voluntary Accreditation Program (NVLAP) Lab Code 100256-0 for this test procedure. 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 Fleetwood Norwood 3000 Series aluminum sliding glass door assembly. 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 1/2 inch (12.7 mm) laminated glass. The laminated glass utilized a .030 inch (0.76 mm) interlayer. The fixed unit and the operable unit were glazed into their individual frames with a vinyl wrap around gasket. The weather stripping used on the operable panel was a vinyl sweep seal on the exterior bottom rail, 290 high 270 back (.290 inch x .270 inch) fin seal on the interlock and an additional strip on the interlock adapter. In addition, on the frame, 290 high 270 back fin seal was located on the interior sill, and both sides of the jamb and head. The weather stripping used on the fixed panel was 290 high 270 back fin seal on the interlock and an additional strip on the interlock adapter. In addition, on the frame two finger vinyl was located at the interior jamb and a 290 high 270 back fin seal was located on both sides of head. A head cap was installed on the top open channel opposite the fixed panel. The net outside frame dimensions of the window assembly were 71-1/2 inches (1.82 m) wide by 79-1/2 inches (2.02 m) high by 4-1/2 inches (114.3 mm) deep. The overall weight of the assembly was 282 lbs. (127.9 kg) for a calculated surface density of 7.14 lbs./ft^2 (34.9 kg/m^2). There were no weep holes. 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 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 413-87 (Reapproved 1999) was STC-37.

Approved:

Gary E. Mange
Laboratory Manager

Respectfully submitted,
Western Electro-Acoustic Laboratory, Inc.

Leo Amezcua
Acoustical Test Technician

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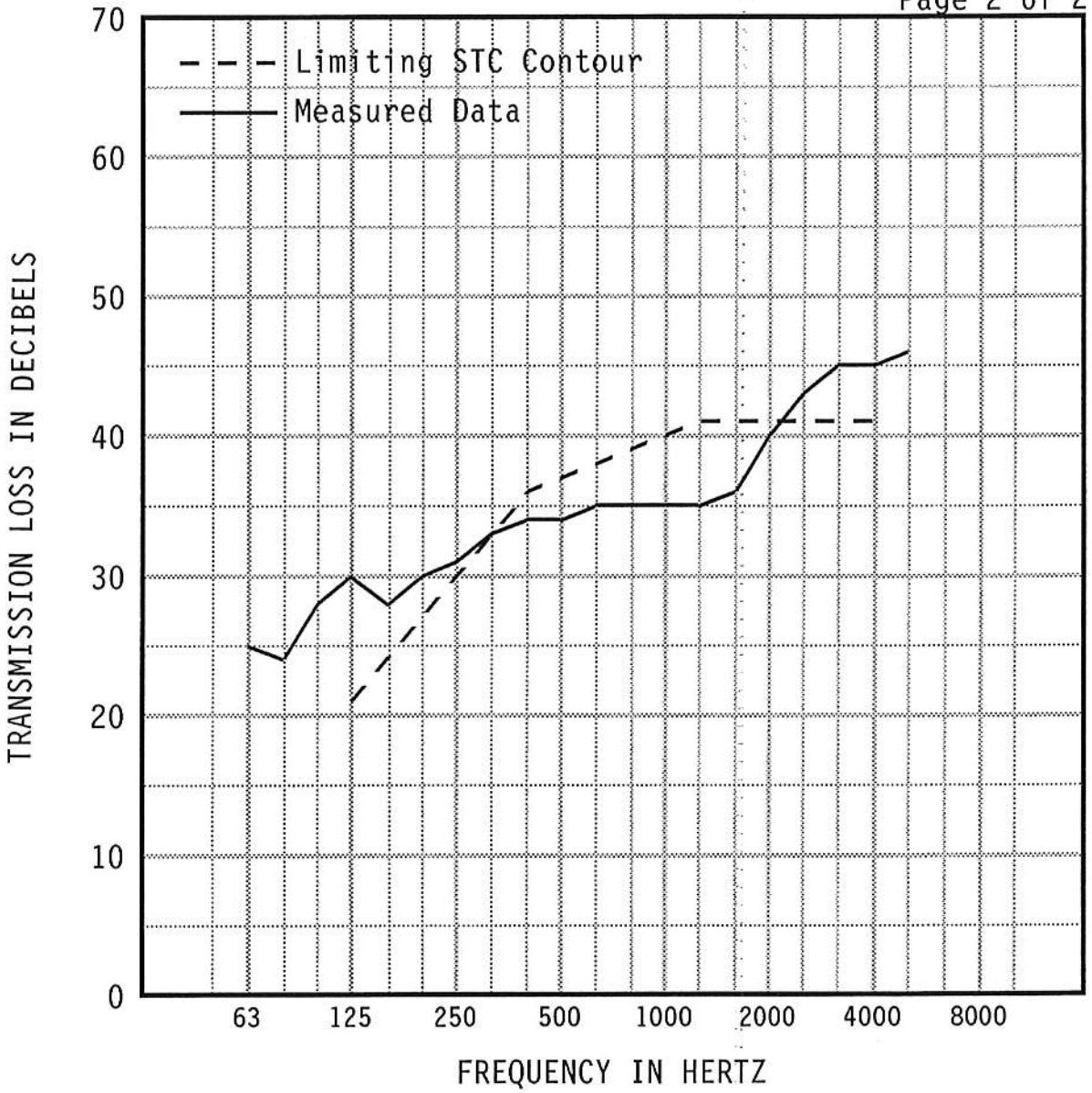

1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	25	24	28	30	28	30	31	33	34	34
95% Confidence in dB	2.81	2.84	1.95	2.96	2.08	1.66	1.07	0.64	0.89	0.64
deficiencies								(0)	(2)	(3)

1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	35	35	35	35	36	40	43	45	45	46
95% Confidence in dB	0.69	0.84	0.76	0.74	0.93	0.48	0.42	0.44	0.36	0.47
deficiencies	(3)	(4)	(5)	(6)	(5)	(1)				

EWR	OITC
38	33

Specimen Area: 39.47 sq.ft.
Temperature: 73.4 deg. F
Relative Humidity: 58 %
Test Date: 13 November 2001

STC
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(29)