



REPORT  
SOUND TRANSMISSION LOSS TEST NO. TL94-159

CLIENT: FLEETWOOD ALUMINUM PRODUCTS, INC.  
TEST DATE: 14 June 1994

INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM Procedure E90-90, *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 volume are 79.9 and 78 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) for this test procedure. This test report relates only to the item(s) tested. Any advertising which 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 Series 3000 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 utilizing an interlayer of .060 inches (1.5 mm). Both pieces of glass were glazed into individual frames using a vinyl wrap around gasket. The weather stripping used on the fixed panel was 290 high 270 back (.290 in. x .270 in.) fin seal on both sides of the head, 2 finger vinyl on the interior side of the frame jamb, and 2 strips of 300 high 270 back pile seal at the interlock. A head closure was installed in the top open channel opposite the fixed panel. The weather stripping used on the operable panel was 290 high 270 back fin seal on both sides of the head and on the interior side of the sill frame, a 1 finger vinyl sweep seal on the exterior side of the panel at the sill, 250 high 270 back foam-tite on both sides of the frame jamb, and 2 strips of 300 high 270 back pile seal at the interlock. The net outside frame dimensions of the door assembly were 72-7/8 inches (1.85 m) wide by 81-1/2 inches (2.07 m) high. The overall weight of the assembly was 293 lbs. (133 kg) for a calculated surface density of 7.10 lbs./ft<sup>2</sup> (34.7 kg/m<sup>2</sup>). 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 125 Hz and above. The Sound Transmission Class rating determined in accordance with ASTM E-413 was STC-37.

Approved:

  
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Jose C. Ortega

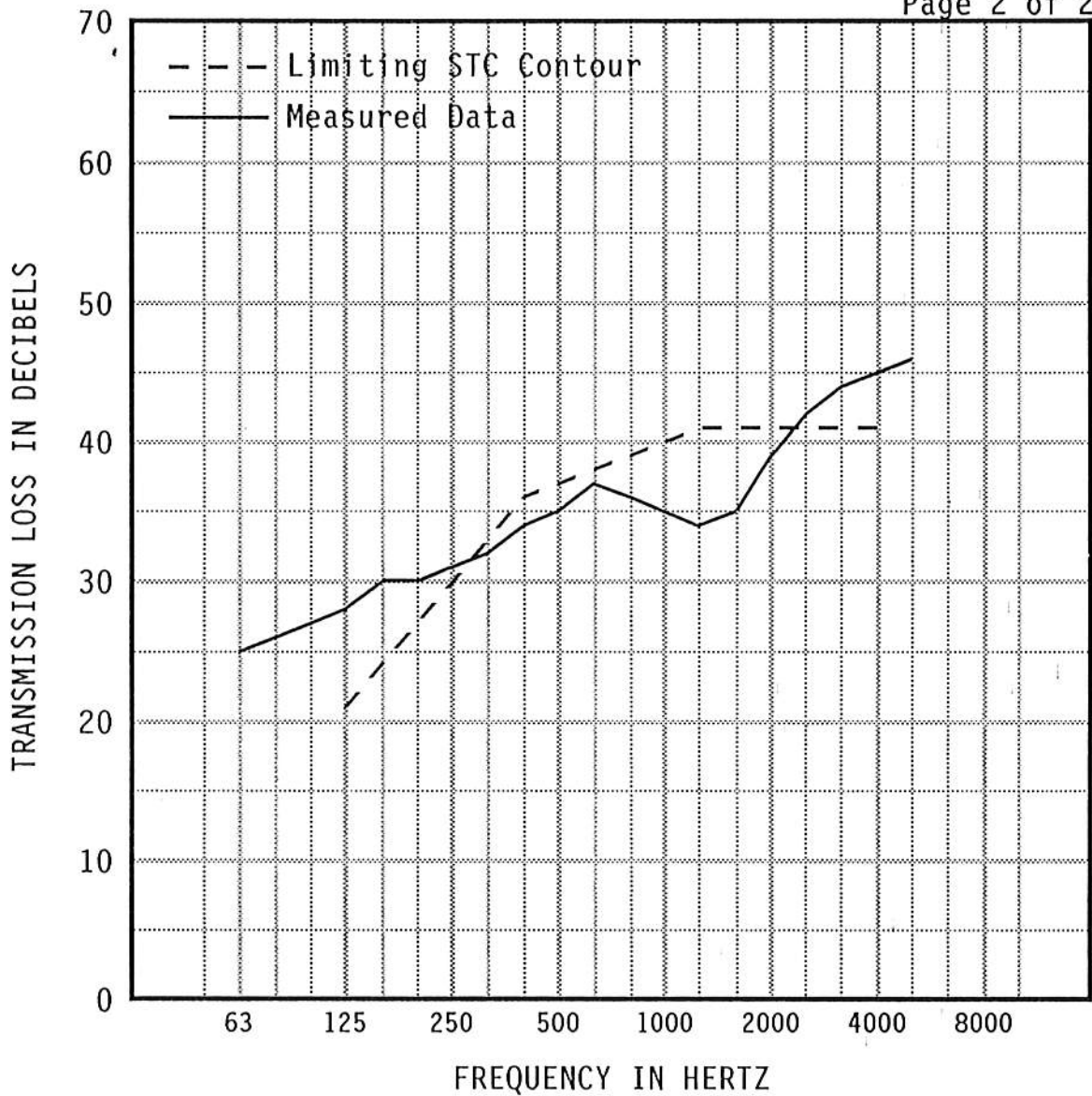
Respectfully submitted,  
Western Electro-Acoustic Laboratory, Inc.

  
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Gary E. Mange



# WESTERN ELECTRO-ACOUSTIC LABORATORY, INC.

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1/3 OCT BND CNTR	FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB		25	26	27	28	30	30	31	32	34	35
95% Confidence in dB deficiencies		4.43	2.99	3.82	2.46	1.49	1.24	0.93	0.80	0.95	0.54
									(1)	(2)	(2)
1/3 OCT BND CNTR	FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB		37	36	35	34	35	39	42	44	45	46
95% Confidence in dB deficiencies		0.34	0.66	0.44	0.46	0.45	0.38	0.51	0.44	0.40	0.36
		(1)	(3)	(5)	(7)	(6)	(2)				

EWR	OITC
39	34

Specimen Area: 41.24 sq.ft.  
 Temperature: 72.7 deg. F  
 Relative Humidity: 64 %  
 Test Date: 14 June 1994

STC
37
(29)

