



REPORT
SOUND TRANSMISSION LOSS TEST NO. TL96-167 revised

CLIENT: FLEETWOOD ALUMINUM PRODUCTS, INC.
TEST DATE: 26 March 1996

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 Westwood 250 Series aluminum horizontal sliding window 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 5/8 inch (15.9 mm) dual glazed units which were 1/8 inch (3.2 mm) double strength glass, 3/8 inch (9.5 mm) air space, and 1/8 inch (3.2 mm) double strength glass. Both units were glazed individual frames using vinyl wrap around gaskets. The weather stripping used on the fixed panel was 2 finger vinyl on the frame sill and head, 140 high 270 back (.140 in. x .270 in.) pile seal on one side of the frame jamb, and 200 high 270 back pile seal was used on the other side of the panel jamb stile. The operable panel used 200 high 270 back pile seal on one side of the frame sill and head and 240 high 270 back pile seal on the other side of the panel top and bottom rails. 140 high 270 back pile seal was used on one side of the frame jamb and 200 high 270 back fin seal was used on the other side of the panel jamb stile. 140 high 270 back pile seal was used at the interlock. The net outside frame dimensions of the window assembly were 71-1/2 inches (1.82 m) wide by 47-1/2 inches (1.21 m) high. The overall weight of the assembly was 92 lbs. (41.7 kg) for a calculated surface density of 3.90 lbs./ft² (19.0 kg/m²). The four weep holes were open and covered with trap door baffles. The operable portion of the assembly was opened and closed five times immediately prior to the test.

RESULTS OF THE MEASUREMENTS

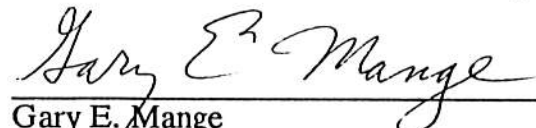
One-third octave band sound transmission loss values are tabulated on the attached sheet. ASTM minimum volume requirements are met at 125 Hz and above. The Sound Transmission Class rating determined in accordance with ASTM E-413 was STC-27.

Approved:

Respectfully submitted,
Western Electro-Acoustic Laboratory, Inc.



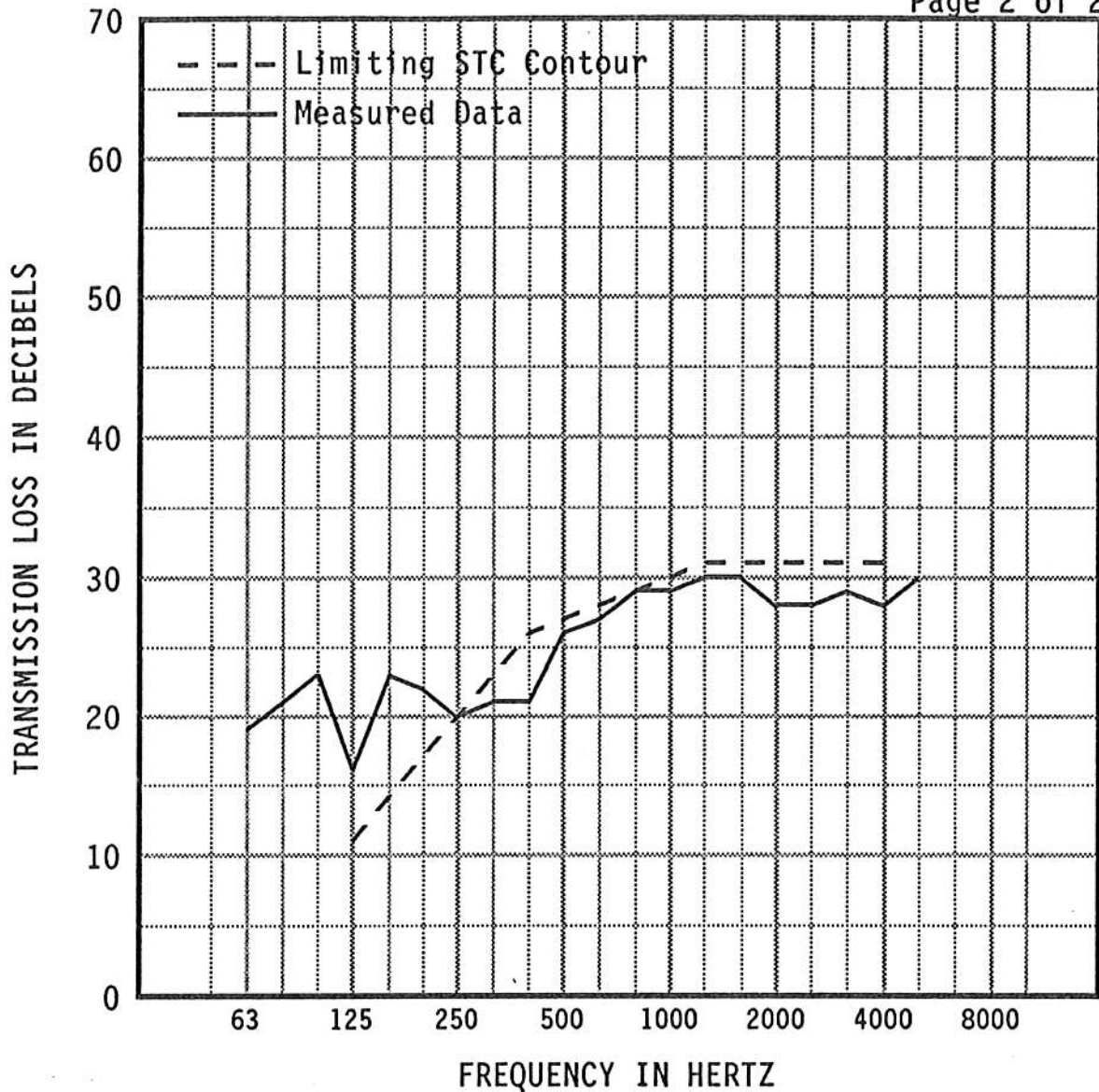
Jose C. Ortega

Gary E. Mange
ACCREDITED BY THE NATIONAL BUREAU OF STANDARDS, NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM FOR SELECTED TEST METHODS FOR ACOUSTICS.

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	19	21	23	16	23	22	20	21	21	26
95% Confidence in dB deficiencies	3.35	2.00	2.50	2.44	1.36	1.39	0.83 (0)	0.90 (2)	1.00 (5)	0.54 (1)
1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	27	29	29	30	30	28	28	29	28	30
95% Confidence in dB deficiencies	0.59 (1)	0.51 (0)	0.33 (1)	0.43 (1)	0.41 (1)	0.36 (3)	0.30 (3)	0.30 (2)	0.38 (3)	0.42

EWR	OITC
30	24

Specimen Area: 23.585 sq.ft.
 Temperature: 70.6 deg. F
 Relative Humidity: 59 %
 Test Date: 26 March 1996

STC
27 (23)