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15 June 1999

REPORT
SOUND TRANSMISSION LOSS TEST NO. TL99-143

CLIENT: FLEETWOOD
TEST DATE: 14 April 1999

INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM Procedure E90-97, *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 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 Series 3070-EX aluminum sliding glass door assembly. The specimen consisted of a fixed panel and an operable panel and 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 inch (25.4 mm) dual glazed units which were 5/16 inch (7.9 mm) laminated glass, 3/8 inch (9.5 mm) air space, and 5/16 inch (7.9 mm) laminated glass. Both units were glazed into individual frames using a vinyl wrap around gasket. 310 high 270 back (.310 in. x .270 in.) fin seal was used on the frame on both sides of the top rail at both panels and on the frame on both sides of the operable panel jamb stile. 2 finger vinyl was used on one side of the fixed panel jamb stile. Each panel had 280 high 270 back pile seal on the interlock and an air barrier attached at the top and bottom of each interlock. On the frame sill below each panel were two sets of 310 high 270 back fin seal which faced each other. There were two legs on each panel which extended down and slid between these sets of fin seal. Track caps were installed in the bottom open tracks opposite the fixed panel. The net outside frame dimensions of the door assembly were 96-7/8 inches (2.46 m) wide by 95-3/4 inches (2.43 m) high. The overall weight of the assembly was 480 lbs. (218 kg) for a calculated surface density of 7.45 lbs./ft² (36.4 kg/m²). The operable portion of the assembly was opened and closed five times immediately prior to the test.

RESULTS OF THE MEASUREMENTS

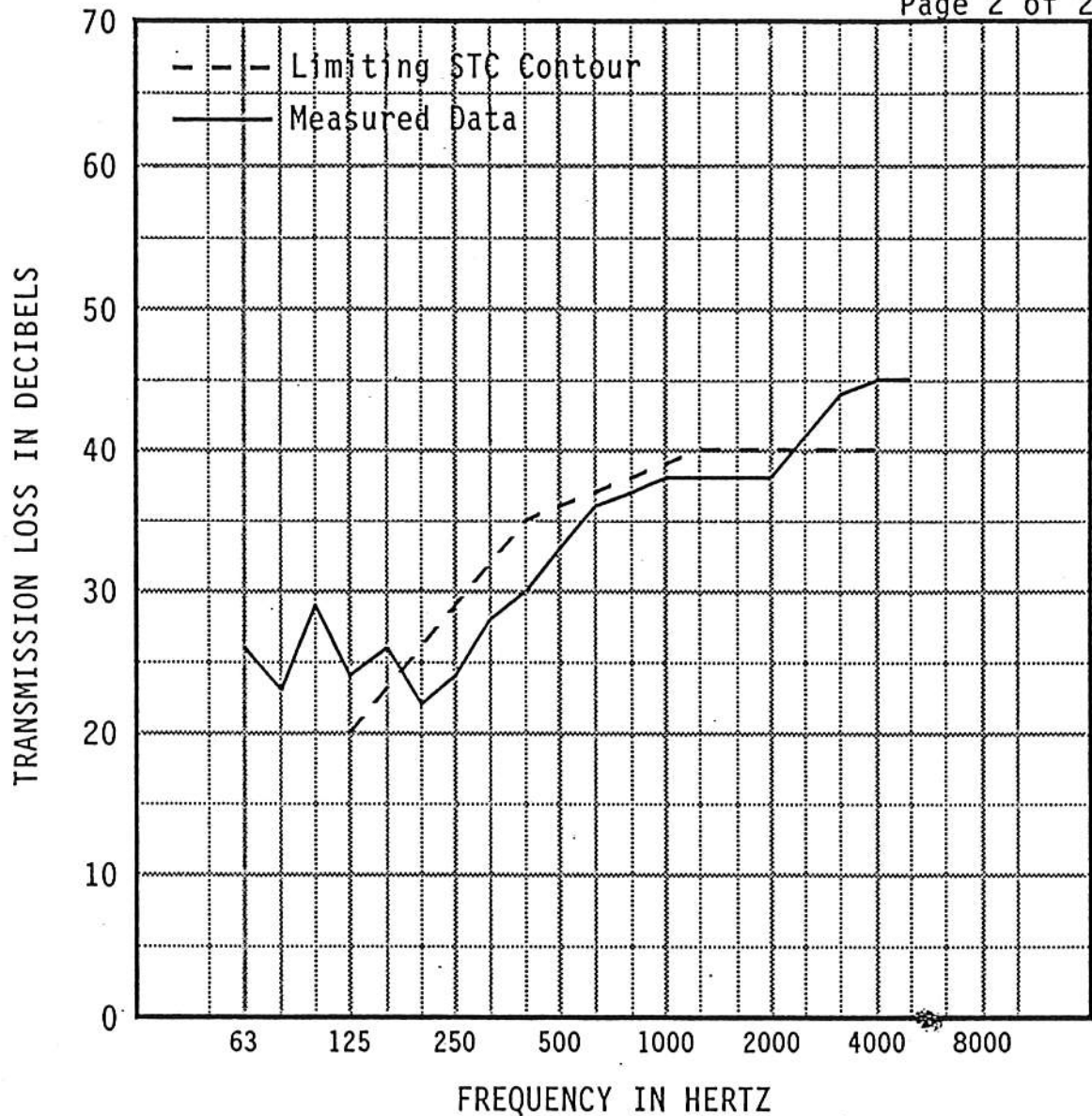
One-third octave band sound transmission loss values are tabulated on the attached sheet. ASTM minimum volume requirements are met at 125 Hz and above. The Sound Transmission Class rating determined in accordance with ASTM E-413 was STC-36.

Respectfully submitted,
Western Electro-Acoustic Laboratory, Inc.

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		26	23	29	24	26	22	24	28	30	33
95% Confidence in dB deficiencies		6.69	3.98	7.24	1.95	2.48	1.47 (4)	1.62 (5)	0.76 (4)	0.68 (5)	0.35 (3)
1/3 OCT BND CNTR	FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB		36	37	38	38	38	38	41	44	45	45
95% Confidence in dB deficiencies		0.73 (1)	0.62 (1)	0.85 (1)	0.62 (2)	0.46 (2)	0.77 (2)	0.57	0.55	0.32	0.56

EWR	OITC
37	30

Specimen Area: 64.42 sq.ft.
 Temperature: 69 deg. F
 Relative Humidity: 66 %
 Test Date: 14 April 1999

STC
36 (30)