

WESTERN ELECTRO - ACOUSTIC LABORATORY, INC.

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PAUL S. VENEKLASEN / Director

6 May 1985

REPORT

SOUND TRANSMISSION LOSS TEST NO. 85-120

CLIENT: Fleetwood Aluminum Products, Inc.
TEST DATE: 30 April 1985

INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM Procedure E90-81, Standard Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions. Details of the procedure will be furnished upon request.

DESCRIPTION OF TEST SPECIMEN

The test specimen was a Norwood Series 3000 sliding glass door. The glazing for both fixed and slider panels was one inch thick dual glazing measuring 45-1/16 inches by 75 inches. The dual glazing consisted of 1/4 inch thick laminated glass and 3/16 inch thick crystal separated by a 9/16 inch air space. The weights of the fixed and slider panels were 156 and 163 pounds respectively. The door utilized 0.290 inch pile fin seals on the head and sill, a 0.250 inch Q-lon seal at the interlock on both fixed and slider panels and at the lock jamb, a two fingered vinyl seal at the fixed jamb on the inside and the outside, and a vinyl sweep under the bottom rail of the slider. The outside dimensions of the door assembly were 95 inches by 80-1/2 inches. The slider was opened and closed five times prior to testing.

RESULTS OF THE MEASUREMENTS


The sound transmission loss values at 17 one-third octave bands are tabulated on the attached sheet. The Sound Transmission Class rating determined in accordance with ASTM E-413 was STC-32.

Respectfully submitted,

Approved:

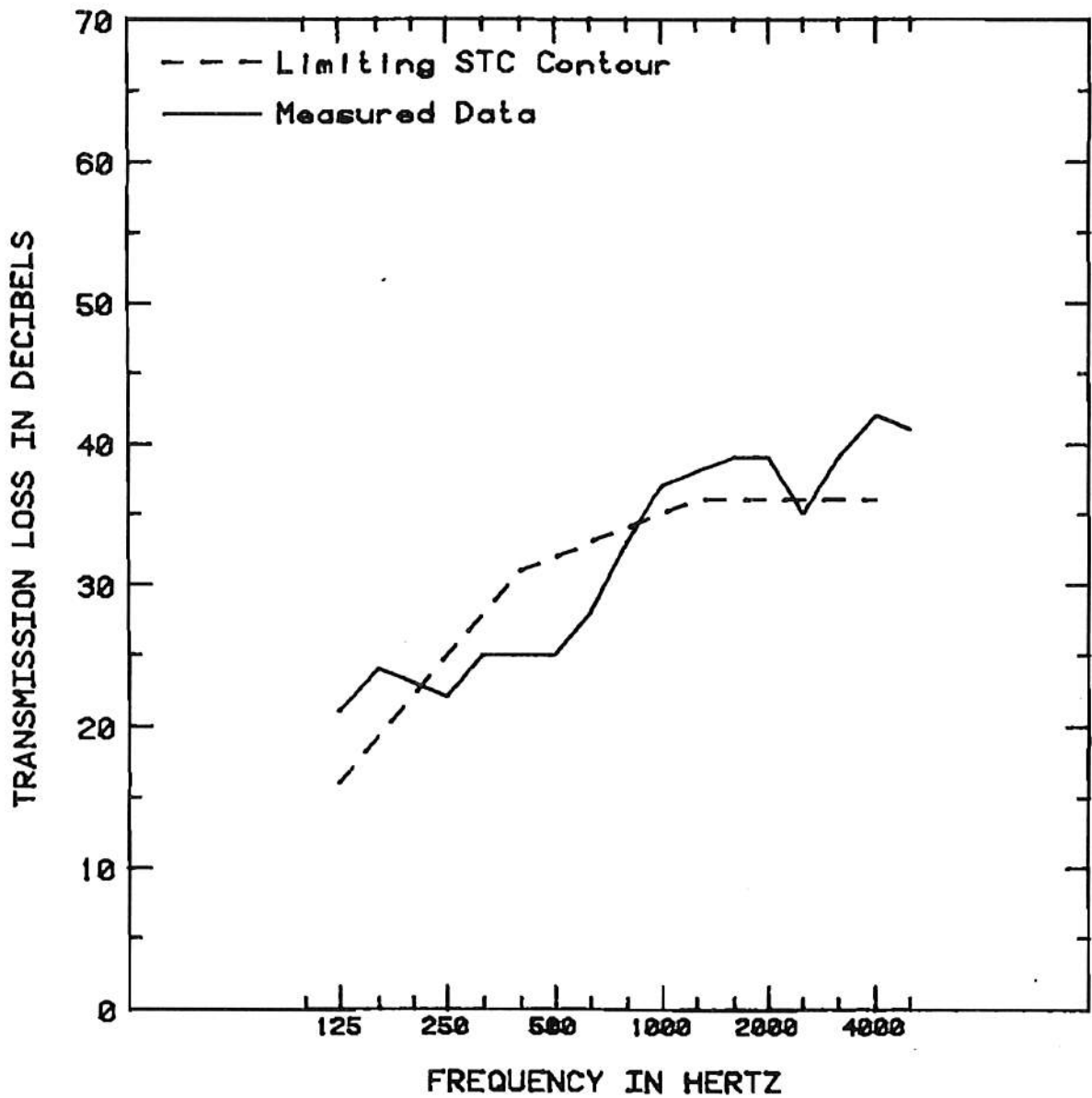
Western Electro-Acoustic Laboratory, Inc.


Jose. C. Ortega


Stephen A. Martin, P.E.

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1/3 OCT BND CNTR FREQ	125	160	200	250	315	400	500	630	800
TL in dB	21	24	23	22	25	25	25	28	33
95% Uncertainty in dB	2.21	1.45	1.29	1.37	0.93	0.86	0.64	0.39	0.39

1/3 OCT BND CNTR FREQ	1000	1250	1600	2000	2500	3150	4000	5000	STC
TL in dB	37	38	39	39	35	39	42	41	32
95% Uncertainty in dB	0.54	0.29	0.40	0.52	0.17	0.45	0.42	0.71	

Specimen Area: 53.11 sq.ft.
 Temperature: 70 deg. F
 Relative Humidity: 53 %
 Test Date: 30 April 1985