

# WESTERN ELECTRO - ACOUSTIC LABORATORY, INC.

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PAUL S. VENEKLASEN / Director

6 May 1985

## REPORT

### SOUND TRANSMISSION LOSS TEST NO. 85-119

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 1/4 inch thick laminated glass measuring 45-1/16 inches by 75 inches. The weights of the fixed and slider panels were 100 and 108 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.

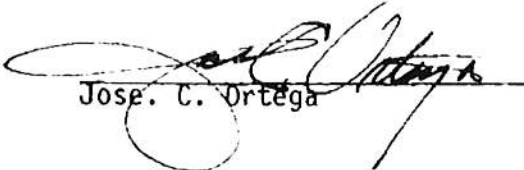
#### RESULTS OF THE MEASUREMENTS

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-33.

Respectfully submitted,

Approved:

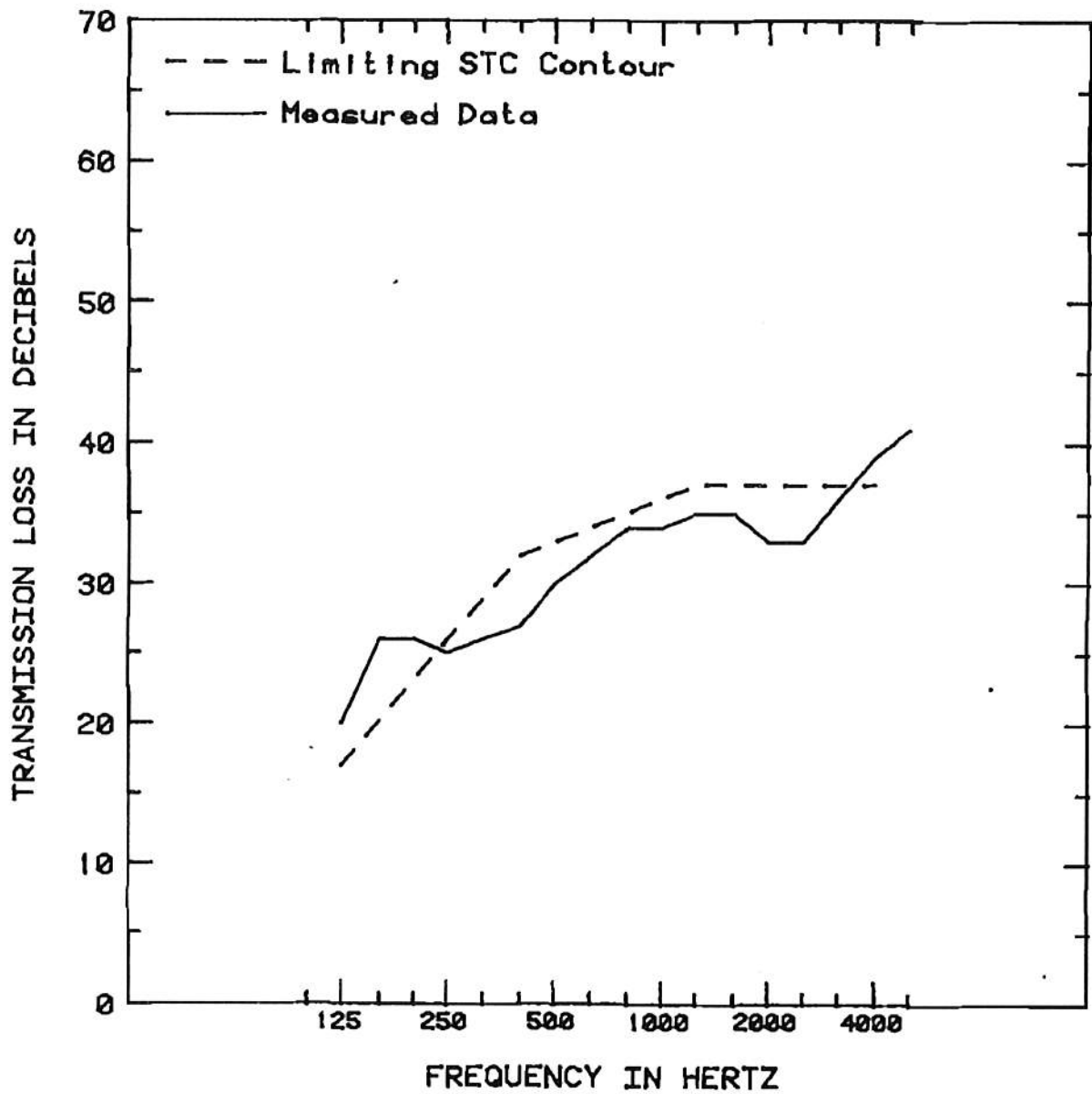
Western Electro-Acoustic Laboratory, Inc.

  
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	20	26	26	25	26	27	30	32	34
95% Uncertainty In dB	1.89	1.07	1.02	0.77	0.94	0.62	0.46	0.38	0.40

1/3 OCT BND CNTR FREQ	1000	1250	1600	2000	2500	3150	4000	5000	STC
TL In dB	34	35	35	33	33	36	39	41	33
95% Uncertainty In dB	0.39	0.30	0.22	0.40	0.39	0.48	0.41	0.35	

Specimen Area: 53.11 sq.ft.  
 Temperature: 70 deg. F  
 Relative Humidity: 54 %  
 Test Date: 30 April 1985