WESTERN ELECTRO - ACOUSTIC LABORATORY
A division of Veneklasen Associates, Inc.

T E S T I N G • C A L I B R A T I O N • R E S E A R C H

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SOUND TRANSMISSION LOSS TEST REPORT NO. TL09-424

CLIENT: **Glacier Bay**
2930 Faber Street
Union City, CA 94587
TEST DATE: 23 July 2009

9 December 2009

INTRODUCTION

The methods and procedures used for each test conform to the provisions and requirements of ASTM E 90-09, *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions* and ASTM E2235-04$^{\varepsilon 1}$, *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods*. Copies of the test standard are available at www.astm.org. The test chamber source and receiving room volumes are 204 and 148.4 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) Lab Code 100256-0 for this test procedure. This test report relates only to the item(s) tested. This report must not be used to claim product certification, approval, or endorsement by WEAL, NVLAP, NIST or any agency of the federal government.

DESCRIPTION OF TEST SPECIMEN

The test specimen was a noise barrier panel. The specimen was installed by capturing it between 1 x 2 furring strips around the entire perimeter. The specimen was sealed into the test chamber opening with caulking around the entire perimeter on both sides. According to the client the blanket was:

Barrier Ultra dB 1.25" thick panel with black face

The overall dimensions of the panel were 1.75 m (69 inches) wide by 1.30 m (51 inches) high by 31.8 mm (1.25 inches) thick. The overall weight of the door assembly was 16.1 kg (35.5 lbs.) for a calculated surface density of 7.09 kg/m^2 (1.45 lbs./ft^2).

RESULTS OF THE MEASUREMENTS

One-third octave band sound transmission loss values are plotted and tabulated on the attached sheet. ASTM minimum volume requirements are met at 80 Hz and above. The Outdoor-Indoor Transmission Class rating determined in accordance with ASTM E 1332-90(2003) was OITC-17. The Sound Transmission Class rating determined in accordance with ASTM E 413-04 was STC-19.

Approved:

Gary E. Mange
Laboratory Director

Respectfully submitted,
Western Electro-Acoustic Laboratory

Raul Martinez
Acoustical Test Technician

NVLAP LAB CODE 100256-0

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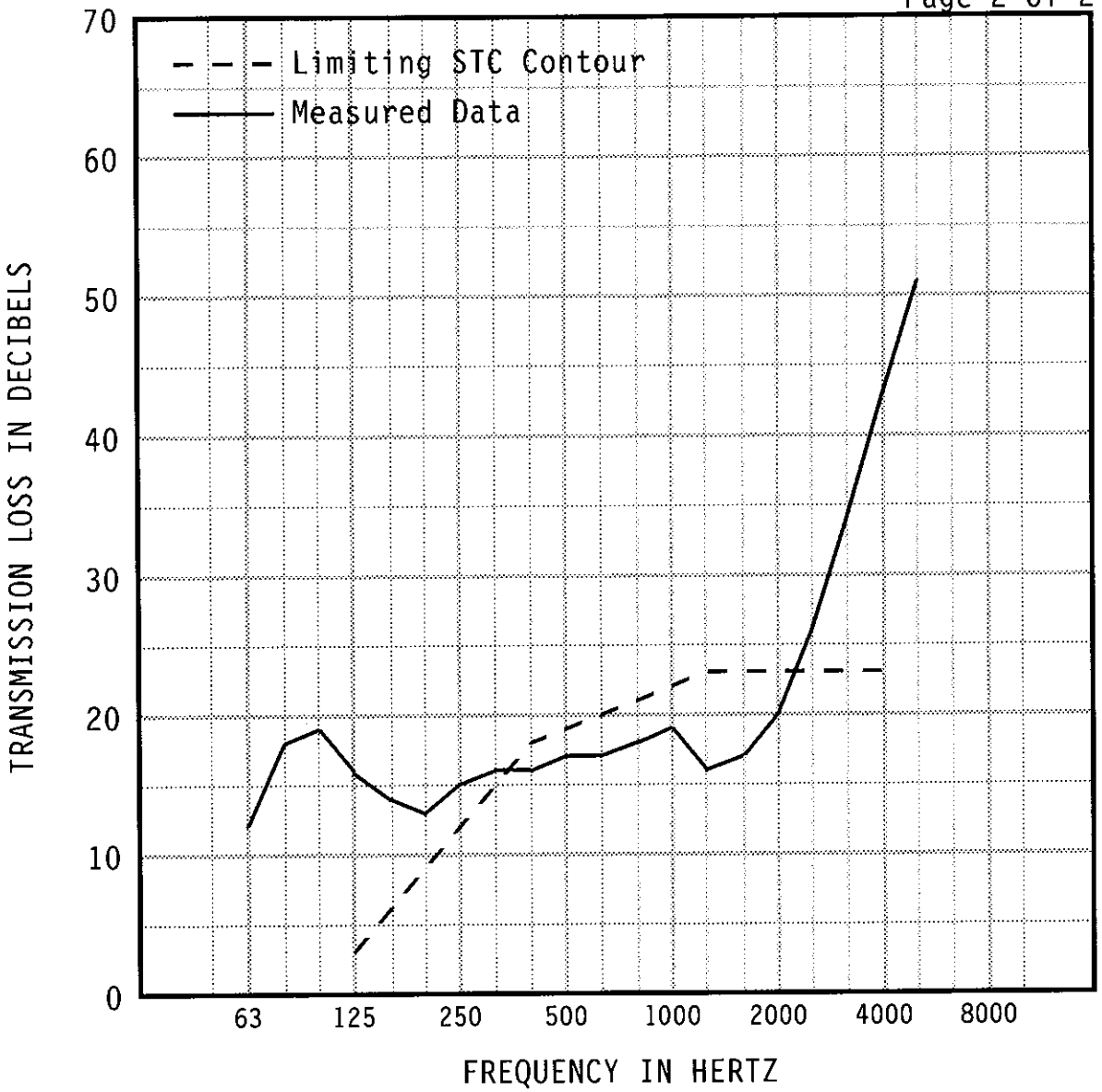
Report No. TL09-424



1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	12	18	19	16	14	13	15	16	16	17
95% Confidence in dB	1.42	1.92	2.07	1.47	0.89	0.76	0.80	0.52	0.36	0.38
deficiencies									(2)	(2)

1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	17	18	19	16	17	20	26	34	43	51
95% Confidence in dB	0.29	0.44	0.38	0.39	0.36	0.56	0.55	0.31	0.32	0.50
deficiencies	(3)	(3)	(3)	(7)	(6)	(3)				

EWR	OITC
21	17

Specimen Area: 24.44 sq.ft.
Temperature: 76.3 deg. F
Relative Humidity: 52 %
Test Date: 23 July 2009

STC
19
(29)

NVLAP

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