WESTERN ELECTRO - ACOUSTIC LABORATORY

TESTING • CALIBRATION • RESEARCH

25132 Rye Canyon Loop Santa Clarita, California 91355 Tel: (661) 775-3741 Fax: (661) 775-3742 www.weal.com

SOUND TRANSMISSION LOSS TEST REPORT NO. TL19-443

CLIENT: **Walters & Wolf Interiors**
41450 Boscell Rd.
Fremont, CA 94538

17 March 2020

TEST DATE: 18 December 2019

INTRODUCTION

The test was performed in accordance with ASTM E 90-09 (2016), *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions* and ASTM E2235-04 (2012), *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 Walters & Wolf Aluminum Sliding Barn Door assembly. The door assembly consisted of a door panel, cased opening, track header, and receiver.

- The framing was made from aluminum and was installed in the chamber opening with screws through the frame and the sliding barn track.
- The specimen was sealed with silicone caulk.
- The door panel was glazed with a single glass pane. The glass panel was a 20.6 mm (13/16 inch) monolithic glass. The glass panel was glazed with vinyl. The daylite was 775 mm (30-1/2 inches) wide by 2.35 m (92-1/2 inches) tall.
- The weather stripping used was two rows of 773 self-adhesive smoke seal were used on the fixed striker. A foam seal was used at the head of the panel. A single rubber seal was used at the center post. A single row of S77 self-adhesive smoke seal was used on the edge of the panel at the jamb. The panel had a NGP780SA door bottom seal which engaged when the door was closed. The aluminum frame hollows were filled with composite of Roxul 60 mineral fiber and 2 lbs of Audioseal barrier
- The overall dimensions of the specimen were 1.13 m (44-1/2 inches) wide by 2.68 m (105-1/2 inches) high by 144 mm (5-11/16 inches) thick.
- The overall weight of the assembly was estimated to be 141 kg (312 lbs) for a calculated surface density of 46.7 kg/m^2 (9.57 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 1332-10a was OITC-36. The Sound Transmission Class rating determined in accordance with ASTM E 413-10 was STC-40.

Respectfully submitted,

Approved:

Western Electro-Acoustic Laboratory

Stephen A. Martin, Ph.D., P.E.
Laboratory Director

Raul Martinez
Acoustical Test Technician

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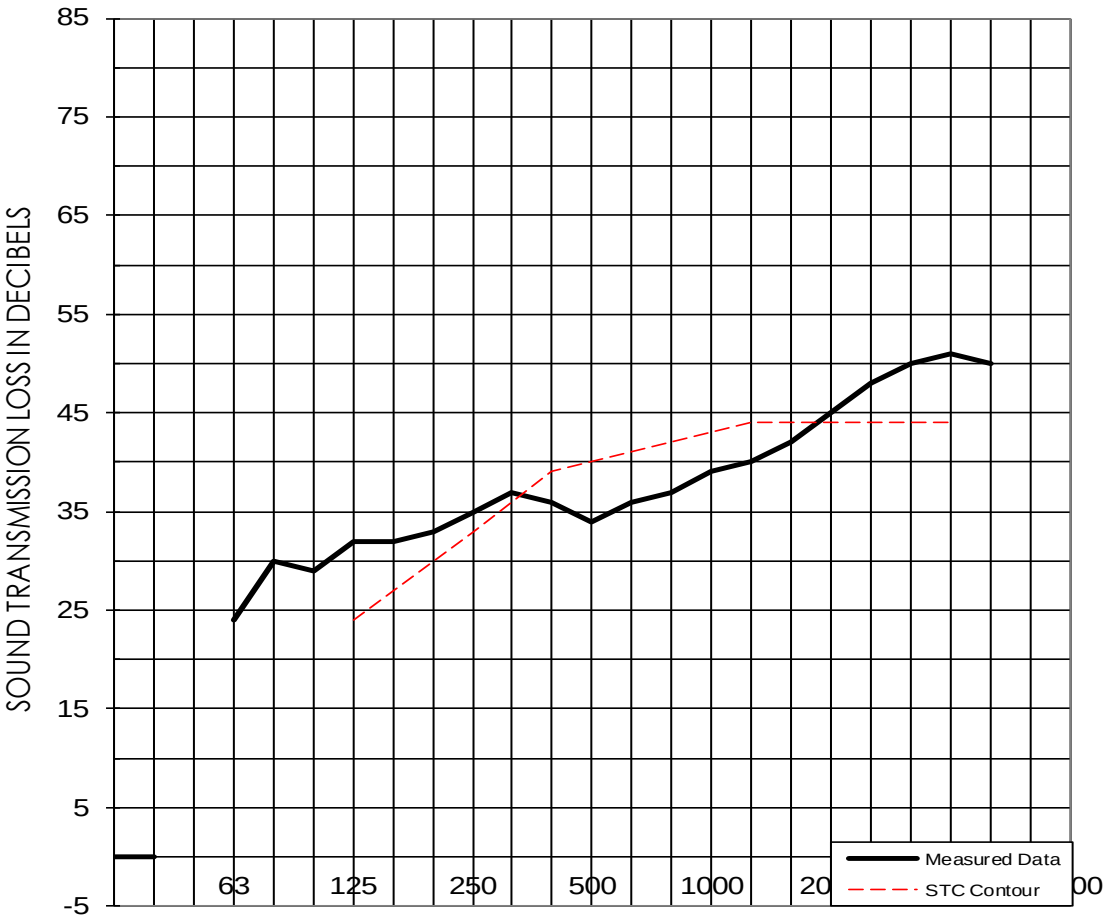

1/3 OCT BAND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	**24***	**30***	**29**	**32**	**32**	**33**	**35**	**37**	**36**	**34**
95% Confidence in dB	1.42	1.92	2.07	1.47	0.89	0.76	0.80	0.52	0.36	0.38
deficiencies									(3)	(6)
1/3 OCT BAND CNTR FREQ	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**2500**	**3150**	**4000**	**5000**
TL in dB	**36**	**37**	**39**	**40**	**42**	**45**	**48**	**50**	**51**	**50**
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	(5)	(5)	(4)	(4)	(2)					

EWR	OITC
42	36

* Minimum estimate of transmission loss. Measurement limited by filler wall. Actual TL will be equal or greater than value reported.

Test Date: 18 December 2019
Specimen Area: 32.6 sq.ft.
Temperature: 64.9 deg. F
Relative Humidity: 30 %

STC
40
(29)

NVLAP TESTING
NVLAP LAB CODE 100256-0