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. TL20-326

CLIENT: **Safti-Seal Inc.**
5806 119th Ave. SE Ste. A #385
Bellevue, WA 98006

4 February 2022

TEST DATE: 7 July 2020

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 (2020), *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 U.S. government.

DESCRIPTION OF TEST SPECIMEN

The test specimen was a 6 inch Single wall assembly.

Specimen Make-up (Source to Receive)	
Layer 1	16 mm (5/8 inch) USG Type X drywall
Resilient channel	RC-1 resilient channel
Framing and Insulation	125mm (6 inch) 20 gauge metal studs with R-13 insulation. 152 mm (6 inch) 20ga metal track profiles with 32 mm (1 1/4 inch) flanges
Layer 2	16 mm (5/8 inch) USG Type X drywall
Layer 3	16 mm (5/8 inch) USG Type X drywall
Installation Information	
Layer Installation	- **Layer 1:** 31.8 mm (1-1/4 inch) long #6 drywall screws spaced 305 mm (12 inches) o.c. along the resilient channel - **Layer 2:** 31.8 mm (1-1/4 inch) long #6 drywall screws 203 mm (8 inches) o.c. along the perimeter and 305 mm (12 inches) o.c. in the field. - **Layer 3:** 41.3 mm (1-5/8 inch) long #6 drywall screws 203 mm (8 inches) o.c. along the perimeter and 305 mm (12 inches) o.c. in the field - On both sides, a 12.7 mm (1/2 inch) gap was intentionally left at the head of the wall to expose Safti-Seal Resilient Channel Gasket (RCG) Tape (Resilient Channel side) and Fire Rated Gasket (Non-Resilient Channel side). - All gypsum board was oriented vertically with joints staggered on opposite sides of the wall - All joints and perimeters were sealed with a bead of caulking and metal foil tape
Resilient Attachment Installation	- Channel was installed to the studs using 25.4 mm (1 inch) pan-head truss screws - Channel was spaced vertically 609 mm (24 inches) o.c. - The center of the top channel was 76.2 mm (3 inches) below the top of the wall - The center of the bottom channel was 76.2 mm (3 inches) above the bottom of the wall
Framing and Insulation Installation	- Studs were spaced 609 mm (24 inches) o.c. - R-19 insulation was installed in the stud cavities.

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- The overall dimensions of the specimen were 2.44 m (96 inches) wide by 2.44 m (96 inches) high by 209 mm (8-1/4 inches) thick.
- The overall weight of the assembly was estimated to be 218 kg (482 lbs) for a calculated surface density of 36.8 kg/m^2 (7.54 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-45. The Sound Transmission Class rating determined in accordance with ASTM E 413-10 was STC-56.

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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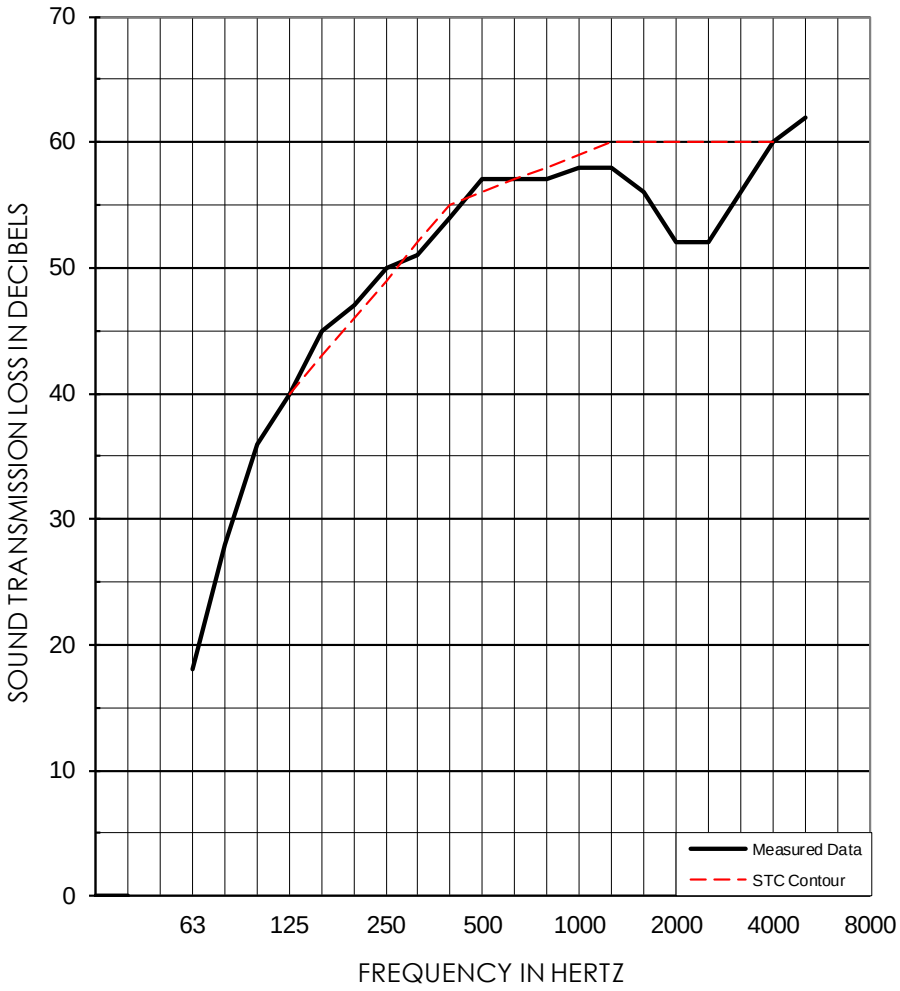

1/3 OCT BAND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	18	28	36	40	45	47	50	51	54	57
95% Confidence in dB	1.42	1.92	2.07	1.47	0.89	0.76	0.80	0.52	0.36	0.38
deficiencies				(0)				(1)	(1)	
1/3 OCT BAND CNTR FREQ	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**2500**	**3150**	**4000**	**5000**
TL in dB	57	57	58	58	56	52	52	56	60	62
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	(0)	(1)	(1)	(2)	(4)	(8)	(8)	(4)	(0)	

EWR	OITC
57	45

Test Date: 07 July 2020
Specimen Area: 64 sq.ft.
Temperature: 77.7 deg. F
Relative Humidity: 37 %

STC
56
(30)

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