



### SOUND TRANSMISSION LOSS TEST REPORT NO. TL20-328

CLIENT: **Safti-Seal Inc.**  
5806 119<sup>th</sup> 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](http://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 3-5/8 inch Single wall assembly.

<b>Specimen Make-up (Source to Receive)</b>	
<b>Layer 1</b>	16 mm (5/8 inch) USG Type X drywall
<b>Framing and Insulation</b>	92.1 mm (3-5/8 inch) Scafco Supreme 20 ga EQ metal studs with R-13 insulation. 152 mm (6 inch) 20ga Scafco EQ slotted track with 38.1 mm (1 1/2 inch slots)
<b>Layer 2</b>	16 mm (5/8 inch) USG Type X drywall
<b>Layer 3</b>	16 mm (5/8 inch) USG Type X drywall
<b>Installation Information</b>	
<b>Layer Installation</b>	<ul style="list-style-type: none"> <li>- <b>Layer 1:</b> 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.</li> <li>- <b>Layer 2:</b> 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.</li> <li>- <b>Layer 3:</b> 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</li> <li>- All gypsum board was oriented vertically with joints staggered on opposite sides of the wall</li> <li>- On the receive side, the drywall was installed leaving a 13 mm (1/2 inch) wide gap at the center of assembly.</li> <li>- All joints and perimeters were sealed with a bead of caulking and metal foil tape</li> </ul>
<b>Framing and Insulation Installation</b>	<ul style="list-style-type: none"> <li>- At center of wall two studs were installed back to back with a 3/8" gap between.</li> <li>- At the center of assembly both sides Safti-Seal 25mm (1 inch) wide Control Joint Gasket (CJG) was installed between the back to back studs continuous and a zinc 093 control joint was installed over CJG joint both sides</li> <li>- Studs were spaced 609 mm (24 inches) o.c.</li> <li>- R-13 insulation was installed in the stud cavities.</li> </ul>

- The overall dimensions of the specimen were 2.44 m (96 inches) wide by 2.44 m (96 inches) high by 139 mm (5-1/2 inches) thick.
- The overall weight of the assembly was estimated to be 281 kg (620 lbs) for a calculated surface density of 47.3 kg/m<sup>2</sup> (9.69 lbs./ft<sup>2</sup>).

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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-39. The Sound Transmission Class rating determined in accordance with ASTM E 413-10 was STC-52.

Respectfully submitted,  
Approved:

Western Electro-Acoustic Laboratory

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

Raul Martinez  
Acoustical Test Technician



# WESTERN ELECTRO - ACOUSTIC LABORATORY

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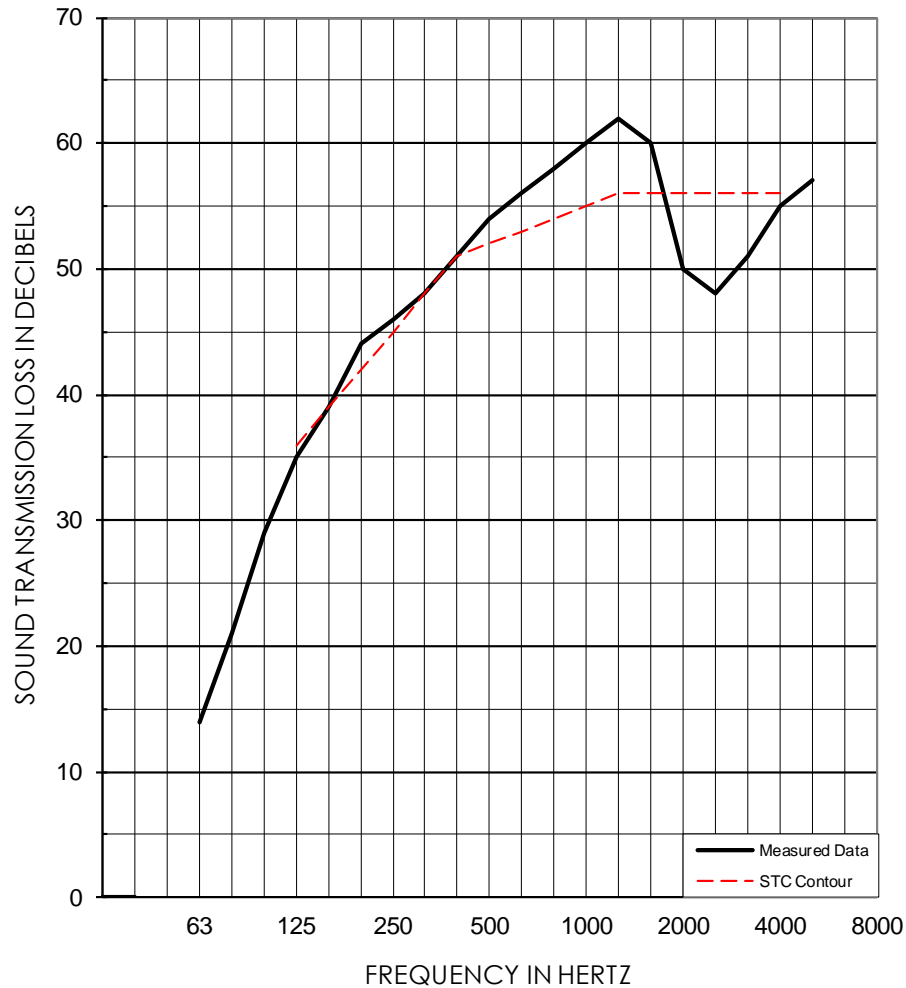
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<b>1/3 OCT BAND CNTR FREQ</b>	<b>63</b>	<b>80</b>	<b>100</b>	<b>125</b>	<b>160</b>	<b>200</b>	<b>250</b>	<b>315</b>	<b>400</b>	<b>500</b>
TL in dB	14	21	29	35	39	44	46	48	51	54
95% Confidence in dB deficiencies	1.42	1.92	2.07	1.47	0.89	0.76	0.80	0.52	0.36	0.38
				(1)	(0)			(0)	(0)	
<b>1/3 OCT BAND CNTR FREQ</b>	<b>630</b>	<b>800</b>	<b>1000</b>	<b>1250</b>	<b>1600</b>	<b>2000</b>	<b>2500</b>	<b>3150</b>	<b>4000</b>	<b>5000</b>
TL in dB	56	58	60	62	60	50	48	51	55	57
95% Confidence in dB deficiencies	0.29	0.44	0.38	0.39	0.36	0.56	0.55	0.31	0.32	0.50
						(6)	(8)	(5)	(1)	

<b>EWR</b>	<b>OITC</b>	Test Date: 08 July 2020	<b>STC</b>
54	39	Specimen Area: 64 sq.ft.	52
		Temperature: 77.7 deg. F	(21)
		Relative Humidity: 37 %	

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