

627 RIVERBANK DRIVE  
GENEVA, IL 60134  
630-232-0104

## Test Report

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WALLACE CLEMENT SABINE

SPONSOR: **Interra USA, Inc.**  
900 SW 16<sup>th</sup> Street, Suite 125, Renton, WA 98057

**Sound Transmission Loss**  
**RAL™-TL24-554**

CONDUCTED: 2024-12-05

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ON: Baseline 25ga. Eq. Steel Stud Wall 24"oc - R-13 Insulation - Single Layer 5/8" Type- X Gypsum Board each side

### TEST METHODOLOGY

Riverbank Acoustical Laboratories™ is accredited by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) as an ISO 17025:2017 Laboratory (NVLAP Lab Code: 100227-0) and for this test procedure. The test reported in this document conformed explicitly with ASTM E90-09 (2016): "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements." The single number rating of the specimen was calculated according to ASTM E413-22: "Classification for Rating Sound Insulation." A description of the measurement procedure and room specifications is available upon request. The transmission loss values are for a single direction of measurement. The results presented in this report apply to the sample as received from the test sponsor.

### SPECIMEN MEASUREMENTS & TEST CONDITIONS

The test specimen was designated by the sponsor as Baseline 25ga. Eq. Steel Stud Wall 24"oc - R-13 Insulation - Single Layer 5/8" Type- X Gypsum Board each side. The building contractor (Seth Priser) and RAL staff compiled a detailed construction specification as follows:

#### Tracks (Top & Bottom)

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Material: 25g EQ tracks  
Dimensions: 2 tracks @ 2445 mm (96.25 in.) wide by 32 mm (1.25 in.) high  
Depth: 92 mm (3.625 in.)  
Steel Thickness: 0.4 mm (0.01585 in.)  
Installation: Friction fit over foam sill sealer  
Overall Weight: 2.38 kg (5.25 lbs)  
Mass per Unit Length: 0.49 kg/m (0.33 lbs/ft)



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### SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

#### **Studs**

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Material: 25g EQ studs  
Dimensions: 5 studs @ 32 mm (1.25 in.) wide by 2750 mm (108.25 in.) high  
Depth: 92 mm (3.625 in.)  
Steel Thickness: 0.4 mm (0.01575 in.)  
Stud Spacing: Studs spaced 610 mm (24 in.) on center  
Installation: Side studs each fastened to test frame at midpoint with 1 screw each  
Studs double crimped to top and bottom tracks at each connection point  
Fasteners: Type W bugle head drywall screws  
Overall Weight: 6.92 kg (15.25 lbs)  
Mass per Unit Length: 0.50 kg/m (0.34 lbs/ft)

*Note: A bead of acoustical sealant was used to seal the source side of the specimen where framing members met the test frame (0.91 kg (2 lbs) total).*

#### **Insulation**

---

Material: R-13 unfaced fiberglass  
Dimensions: 4 pieces @ 610 mm (24 in.) wide by 2438 mm (96 in.) high  
4 pieces @ 610 mm (24 in.) wide by 305 mm (12 in.) high  
Depth: 92 mm (3.625 in.)  
Installation: Friction fit between studs  
Overall Weight: 6.8 kg (15 lbs)  
Mass per Unit Volume: 11.05 kg/m<sup>3</sup> (0.69 lbs/ft<sup>3</sup>)

#### **Source Room Side**

---

Material: Type X gypsum board  
Dimensions: 2 panels @ 1219 mm (48 in.) wide by 2743 mm (108 in.) high  
Thickness: 16 mm (0.625 in.)  
Installation: Panels installed vertically and fastened to studs with screws  
Fasteners: Type S bugle head drywall screws, length @ 32 mm (1.25 in.)  
Fastener Spacing: 406 mm (16 in.) on center  
Overall Weight: 73.71 kg (162.5 lbs)  
Mass Per Unit Area: 11.02 kg/m<sup>2</sup> (2.26 lbs/ft<sup>2</sup>)



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SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

**Receive Room Side**

- Material: Type X gypsum board
- Dimensions: 1 panel @ 1219 mm (48 in.) wide by 2743 mm (108 in.) high  
2 panels @ 610 mm (24 in.) wide by 2743 mm (108 in.) high
- Thickness: 16 mm (0.625 in.)
- Installation: Panels installed vertically, fastened to studs with screws  
Panel joints staggered from source side panel joints
- Fasteners: Type S bugle head drywall screws, length @ 32 mm (1.25 in.)
- Fastener Spacing: 406 mm (16 in.) on center
- Overall Weight: 73.37 kg (161.75 lbs)
- Mass Per Unit Area: 10.97 kg/m<sup>2</sup> (2.25 lbs/ft<sup>2</sup>)

*Note: Joints between gypsum board panels, and screw heads on both sides of the partition were treated with a thin bead of acoustical sealant and metal tape (0.23 kg (0.5 lbs) total).*

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### SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

#### **Overall Specimen Measurements**

Dimensions: 2.44 m (96.0 in) wide by 2.74 m (108.0 in) high  
Thickness: 0.12 m (4.875 in)  
Weight: 164.31 kg (362.25 lbs)  
Overall Area: 6.689 m<sup>2</sup> (72. ft<sup>2</sup>)  
Mass per Unit Area: 24.56 kg/m<sup>2</sup> (5.03 lbs/ft<sup>2</sup>)

#### **Test Aperture**

Opening Size: 2.74 m (9.0 ft.) by 4.27 m (14.0 ft.)  
Filler Wall: Yes  
Aperture Size: 2.44 m (96.0 in) wide by 2.74 m (108.0 in) high  
Transmission Area: 6.689 m<sup>2</sup> (72. ft<sup>2</sup>)  
Sealed: Entire periphery (both sides) with dense mastic

#### **Test Environment**

##### Source Room

Volume: 177.11 m<sup>3</sup>  
Temperature: 20.6 °C ± 0.0 °C  
Relative Humidity: 52.0 % ± 0.0 %

##### Receive Room

Volume: 178.33 m<sup>3</sup>  
Temperature: 21.1 °C ± 0.0 °C  
Relative Humidity: 49.5 % ± 1.0 %

##### Requirements

Temperature: 22° C +/- 2° C, not more than 3° C change over all tests.  
Relative Humidity: ≥ 30%, not more than +/- 3% change over all tests.



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Figure 1 – Specimen mounted in test aperture, as viewed from source room



Figure 2 – Specimen mounted in test aperture, as viewed from receive room



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Figure 3 – Tracks and studs installed in test aperture



Figure 4 – Detail of stud double crimped to track



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Figure 5 – Detail of side stud fastened to test frame



Figure 6 – Insulation installed in stud cavities



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### TEST RESULTS

Sound transmission loss values are tabulated at the eighteen standard frequency bands. A graphic presentation of the data and additional information appear on the following pages. The precision of the transmission loss test data is within the limits set by the ASTM Standard E90-09 (2016). See Appendix A for identification of corrections applied to the reported data.

<u>FREQ.</u>	<u>TL</u>	<u>ΔTL</u>	<u>DEF.</u>	<u>FREQ.</u>	<u>TL</u>	<u>ΔTL</u>	<u>DEF.</u>
100	18	0.50	0	800	58	0.15	0
125	29	0.31	6	1000	60	0.09	0
160	34	0.36	4	1250	62	0.13	0
200	38	0.43	3	1600	59	0.09	0
250	42	0.37	2	2000	50	0.07	5
315	46	0.18	1	2500	49	0.07	6
400	49	0.18	1	3150	53	0.07	2
500	52	0.15	0	4000	56	0.06	0
630	55	0.19	0	5000	59	0.13	0

STC=51

### ABBREVIATION INDEX

FREQ. = 1/3 OCTAVE BAND CENTER FREQUENCY, Hz

TL = TRANSMISSION LOSS, dB

ΔTL = 95% CONFIDENCE INTERVAL FOR TL MEASUREMENTS, dB

DEF. = DEFICIENCIES, dB BELOW SHIFTED STC CONTOUR (SUM OF DEF = 30)

STC = SOUND TRANSMISSION CLASS

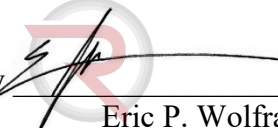
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Marc Sciaky  
Senior Experimentalist

Report by

  
Keith Kimberling  
Test Engineer

Approved by

  
Eric P. Wolfram  
Laboratory Manager



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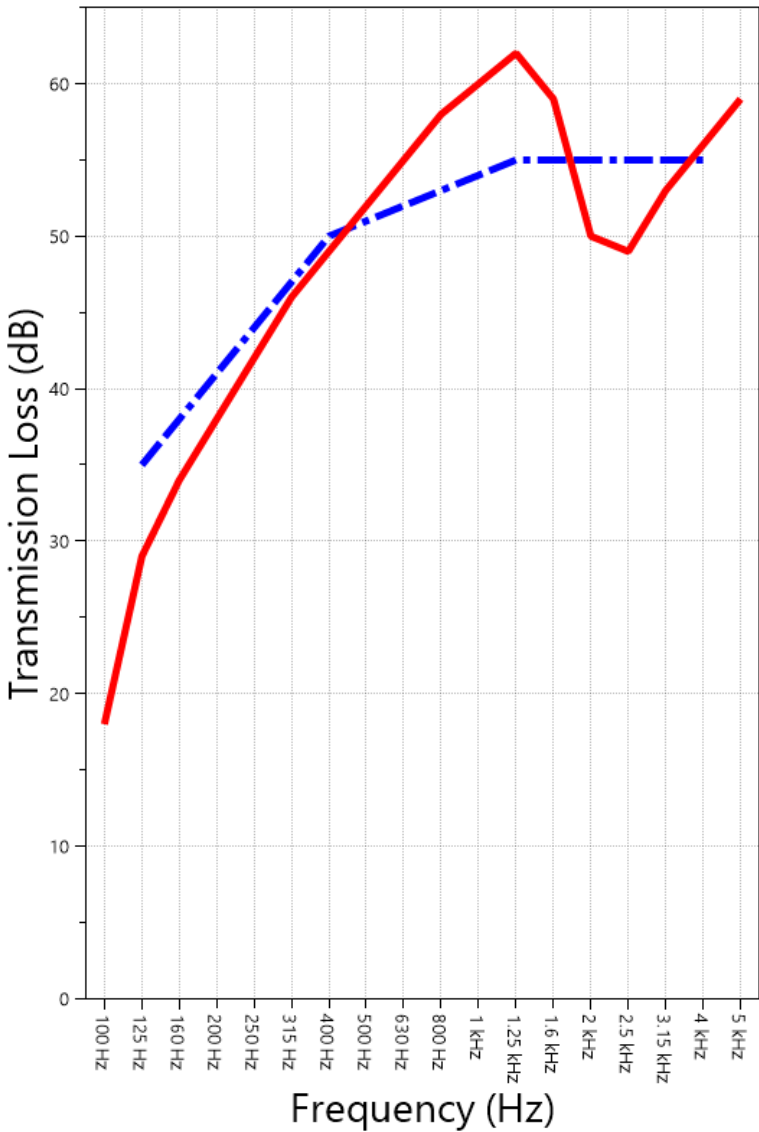
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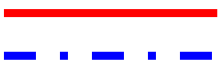
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**SOUND TRANSMISSION REPORT**  
Baseline 25ga. Eq. Steel Stud Wall 24"oc - R-13 Insulation - Single Layer 5/8" Type- X  
Gypsum Board each side



**STC=51**

**OITC=28**



**TRANSMISSION LOSS**  
**SOUND TRANSMISSION CLASS CONTOUR**

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APPENDIX A: Extended Frequency Range Data

Specimen: Baseline 25ga. Eq. Steel Stud Wall 24"oc - R-13 Insulation - Single Layer 5/8" Type- X Gypsum Board each side (See Full Report)

The following non-accredited data were obtained in accordance with ASTM E90-09 (2016), but extend beyond the defined frequency range of 100Hz to 5,000Hz. These unofficial results are representative of the RAL test environment only and intended for research & comparison purposes. Sampling precision observed during this procedure is reported below. Corrections are detailed in Appendix B.

1/3 Octave Band Center Frequency (Hz)	Sound Transmission Loss (dB)	Applicable Corrections	ΔTL (Eq. A2.5) (dB)	Repeatability (dB)
31.5	20	ZZ F	1.09	1.01
40	22	Z F	0.98	2.26
50	14		0.63	1.52
63	12		0.63	1.47
80	10		0.37	0.60
100	18		0.50	0.67
125	29		0.31	0.71
160	34		0.36	0.35
200	38		0.43	0.33
250	42		0.37	0.42
315	46		0.18	0.41
400	49		0.18	0.46
500	52		0.15	0.18
630	55		0.19	0.26
800	58		0.15	0.24
1000	60		0.09	0.27
1250	62		0.13	0.15
1600	59		0.09	0.12
2000	50		0.07	0.13
2500	49		0.07	0.19
3150	53		0.07	0.14
4000	56		0.06	0.17
5000	59		0.13	0.17
6300	62		0.22	0.21
8000	64	Z	0.19	0.50
10000	62	Z F	0.16	1.21
12500	57	Z F	0.11	1.74

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### **APPENDIX B: Glossary of Standardized Corrections and Adjustments**

Specimen: Baseline 25ga. Eq. Steel Stud Wall 24"oc - R-13 Insulation - Single Layer 5/8" Type- X Gypsum Board each side (See Full Report)

#### **Mark Interpretation**

- A*** Measured sound pressure levels in the receive room are within 10 dB of the ambient noise level at the marked frequency band. Receive room levels used to calculate Transmission Loss are corrected according to ASTM E90 Section 10.3.
- AA*** Measured sound pressure levels in the receive room are within 5 dB of the ambient noise level at the marked frequency band. Receive room levels used to calculate Transmission Loss are corrected according to ASTM E90 Section 10.3.1. Transmission Loss values calculated from levels corrected this way will be less than or equal to Transmission Loss values from a hypothetical test using the same specimen and a receive room with idealized ambient sound levels of  $(-\infty)$  dB.
- F*** The reported Transmission Loss is within 10 dB of the laboratory flanking limit at the marked frequency band. The measured performance of the specimen may be limited by the performance of the laboratory building structure at this frequency band.
- Z*** The reported Transmission Loss at the marked frequency band has been corrected according to ASTM E90 Section A3.2.7 to account for possible sound transmission through the filler assembly.
- ZZ*** The reported Transmission Loss at the marked frequency band has been corrected according to ASTM E90 Section A3.2.8 to account for possible sound transmission through the filler assembly. Transmission Loss values corrected this way will be less than or equal to Transmission Loss values from a hypothetical test using the same specimen and an idealized filler assembly with a Sound Transmission Class rating of  $(\infty)$ .

### **APPENDIX C: Glossary of Variability Metrics**

Specimen: Baseline 25ga. Eq. Steel Stud Wall 24"oc - R-13 Insulation - Single Layer 5/8" Type- X Gypsum Board each side (See Full Report)

**$\Delta$ TL**, the 95% confidence interval for reported transmission loss values, is calculated from the standard deviation of the sets of measurements for source room sound pressure level, receive room sound pressure level, and receive room sound absorption. This metric is calculated in an effort to quantify the combined influences of room geometry, microphone positioning, and other varying environmental conditions on reported results.

**Repeatability**, expressed as a 95% confidence interval, is calculated from the standard deviation of transmission loss as obtained from a set of six (6) consecutive tests conducted according to this test method by RAL on 2020-02-13. The tests were performed on a specimen composed of 24 gauge steel paneling, using the same test opening as used in this report. This metric provides an estimate of the variation in results that might be observed if the test were repeated with no change to the installed specimen. Note that repeatability will vary with the construction type.



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**APPENDIX D: Determination of Outdoor Indoor Transmission Class (OITC)**

Specimen: Baseline 25ga. Eq. Steel Stud Wall 24"oc - R-13 Insulation - Single Layer 5/8" Type- X  
Gypsum Board each side (See Full Report)

The determination of the Outdoor Indoor Transmission Class (OITC) as reported below was made with explicit conformity to the procedures described in the ASTM E1332-22 test standard. Test Method ASTM E90-09 (2016) was used to obtain the sound transmission loss data. This rating is based on an average transportation noise source spectrum and an A-weighted sound level reduction, either of which may be inappropriate for some applications.

One-third Octave Band Center Frequency, Hz	Reference Sound Spectrum, dB	Test Specimen Transmission Loss, dB
80	103	10
100	102	18
125	101	29
160	98	34
200	97	38
250	95	42
315	94	46
400	93	49
500	93	52
630	91	55
800	90	58
1000	89	60
1250	89	62
1600	88	59
2000	88	50
2500	87	49
3150	85	53
4000	84	56

*OITC = 28*



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**APPENDIX E: Instruments of Traceability**

Specimen: Baseline 25ga. Eq. Steel Stud Wall 24"oc - R-13 Insulation - Single Layer 5/8" Type- X Gypsum Board each side (See Full Report)

<u>Description</u>	<u>Model</u>	<u>Serial Number</u>	<u>Date of Certification</u>	<u>Calibration Due</u>
System 2	3160-A-042	3160-106968	2024-07-19	2025-07-19
Bruel & Kjaer Mic And Preamp C	Type 4943-B-001	2311439	2024-03-29	2025-03-29
Bruel & Kjaer Pistonphone	Type 4228	2781248	2024-07-19	2025-07-19
EXTECH Hygro 663	SD700	A083663	2023-12-28	2024-12-28
EXTECH Hygro 6015	SD700	A.116015	2024-06-05	2025-06-05

**APPENDIX F: Revisions to Original Test Report**

Specimen: Baseline 25ga. Eq. Steel Stud Wall 24"oc - R-13 Insulation - Single Layer 5/8" Type- X Gypsum Board each side (See Full Report)

<u>Date</u>	<u>Revision</u>
2024-12-19	Original report issued

END