627 RIVERBANK DRIVE GENEVA, IL 60134 Test Report

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FOUNDED 1918 BY

Sound Transmission Loss

RALTM-TL24-321

630-232-0104 SPONSOR: ClarkDietrich

West Chester, OH

CONDUCTED: 2024-07-19 Page 1 of 14

ON: 3-5/8" ProdStud144-22 (22mil) Steel Stud 24" o.c. on 22 mil tracks, (3.5" R-13 Insulation) 1 layer

5/8" Gypsum each side

TEST METHODOLOGY

Riverbank Acoustical LaboratoriesTM 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.

INFORMATION PROVIDED BY SPONSOR

The test specimen was designated by the sponsor as 3-5/8" ProdStud144-22 (22mil) Steel Stud 24" o.c. on 22 mil tracks, (3.5" R-13 Insulation) 1 layer 5/8" Gypsum each side.

SPECIMEN MEASUREMENTS & TEST CONDITIONS

Through a full external visual inspection performed on the test specimen, Riverbank personnel verified the following specimen properties:

Tracks (Top & Bottom)

Material: ProTrak144-22 (22mil)

Dimensions: 2 plates @ 2438 mm (96 in.) wide by 32 mm (1.25 in.) high

Depth: 92 mm (3.625 in.)

Steel Thickness: 0.58 mm (0.02295 in.)

Installation: Friction fit over foam sill sealer

Overall Weight: 3.52 kg (7.75 lbs)

Mass per Unit Length: 0.72 kg/m (0.48 lbs/ft)



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SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

Studs

Material: ProStud144-22 (22mil)

Dimensions: 5 studs @ 37 mm (1.4375 in.) wide by 2743 mm (108 in.) high

Depth: 92 mm (3.625 in.) Steel Thickness: 0.61 mm (0.02385 in.)

Stud Spacing: Studs spaced 610 mm (24 in.) on center

Installation: Side stude each fastened to test frame at midpoint with 1 screw each

Studs fit into top and bottom tracks, left floating

Fasteners: Type W bugle head drywall screws, length @ 32 mm (1.25 in.)

Overall Weight: 11.11 kg (24.5 lbs) Mass per Unit Length: 0.81 kg/m (0.54 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: 89 mm (3.5 in.)

Installation: Friction fit between studs Overall Weight: 7.37 kg (16.25 lbs) Mass per Unit Volume: 12.4 kg/m³ (0.77 lbs/ft³)

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: 203 mm (8 in.) on center perimeter, 305 mm (12 in.) on center field

If a screw fell on a "stud to track" condition, that screw was offset L or R

by 1" to avoid the track to stud connection

Overall Weight: 75.18 kg (165.75 lbs)
Mass Per Unit Area: 11.24 kg/m² (2.30 lbs/ft²)



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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: 203 mm (8 in.) on center perimeter, 305 mm (12 in.) on center field

If a screw fell on a "stud to track" condition, that screw was offset L or R

by 1" to avoid the track to stud connection

Overall Weight: 73.03 kg (161 lbs)

Mass Per Unit Area: $10.92 \text{ kg/m}^2 (2.24 \text{ lbs/ft}^2)$

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 (0.45 kg (1 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: 171.57 kg (378.25 lbs)
Overall Area: 6.689 m² (72. ft²)

Mass per Unit Area: 25.65 kg/m² (5.25 lbs/ft²)

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 m² (72. ft²)

Sealed: Entire periphery (both sides) with dense mastic

Test Environment

Source Room

Volume: 177.11 m³

Temperature: $22.8 \, ^{\circ}\text{C} \pm 0.0 \, ^{\circ}\text{C}$ Relative Humidity: $54.5 \, \% \pm 1.0 \, \%$

Receive Room

Volume: 178.33 m³

Temperature: $22.2 \,^{\circ}\text{C} \pm 0.0 \,^{\circ}\text{C}$ Relative Humidity: $55.5 \,^{\circ}\text{M} \pm 1.0 \,^{\circ}\text{M}$

Requirements

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

TESTING

NVLAP LAB CODE 100227-0

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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 side stud fastened to test frame



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Figure 5 – Source room side gypsum board installed, viewed from receive room



Figure 6 – Source room side gypsum board installed, viewed from receive room



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Figure 7 – Insulation installed in stud cavities, receive room side partially installed, viewed from receive room



Figure 8 – Insulation installed in stud cavities, receive room side partially installed, viewed from receive room



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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.

FREQ.	<u>TL</u>	ΔTL	DEF.	FREQ.	<u>TL</u>	ΔTL	DEF.
100	18	0.73	0	800	53	0.12	0
125	29	0.54	1	1000	53	0.16	0
160	34	0.76	0	1250	56	0.11	0
200	38	0.40	0	1600	55	0.14	0
250	41	0.27	0	2000	45	0.08	5
315	42	0.31	0	2500	42	0.09	8
400	45	0.39	0	3150	44	0.10	6
500	48	0.28	0	4000	49	0.08	1
630	50	0.19	0	5000	53	0.06	0

STC=46

ABBREVIATION INDEX

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

TL = TRANSMISSION LOSS, dB

 $\Delta TL = 95\%$ CONFIDENCE INTERVAL FOR TL MEASUREMENTS, dB

DEF. = DEFICIENCIES, dB BELOW SHIFTED STC CONTOUR (SUM OF DEF = 21)

STC = SOUND TRANSMISSION CLASS

Tested by

Report by

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TESTING

NVLAP LAB CODE 100227-0

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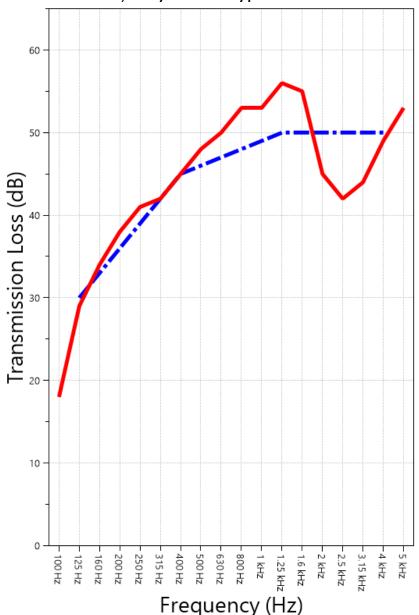
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SOUND TRANSMISSION REPORT

3-5/8" ProdStud144-22 (22mil) Steel Stud 24" o.c. on 22 mil tracks, (3.5" R-13 Insulation) I layer 5/8" Gypsum each side



STC=46 OITC=30

TRANSMISSION LOSS
SOUND TRANSMISSION CLASS CONTOUR



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APPENDIX A: Extended Frequency Range Data

Specimen: 3-5/8" ProdStud144-22 (22mil) Steel Stud 24" o.c. on 22 mil tracks, (3.5" R-13 Insulation) 1 layer 5/8" Gypsum 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	18	ZZ F	1.31	1.01
40	19	Z F	0.68	2.26
50	16		0.39	1.52
63	13		1.10	1.47
80	12		0.88	0.60
100	18		0.73	0.67
125	29		0.54	0.71
160	34		0.76	0.35
200	38		0.40	0.33
250	41		0.27	0.42
315	42		0.31	0.41
400	45		0.39	0.46
500	48		0.28	0.18
630	50		0.19	0.26
800	53		0.12	0.24
1000	53		0.16	0.27
1250	56		0.11	0.15
1600	55		0.14	0.12
2000	45		0.08	0.13
2500	42		0.09	0.19
3150	44		0.10	0.14
4000	49		0.08	0.17
5000	53		0.06	0.17
6300	55		0.10	0.21
8000	58		0.11	0.50
10000	59	Z	0.12	1.21
12500	56	Z F	0.12	1.74



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APPENDIX B: Glossary of Standardized Corrections and Adjustments

Specimen: 3-5/8" ProdStud144-22 (22mil) Steel Stud 24" o.c. on 22 mil tracks, (3.5" R-13 Insulation) 1 layer 5/8" Gypsum each side (See Full Report)

Mark Interpretation

- 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.
- 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.
- 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 (∞) .

APPENDIX C: Glossary of Variability Metrics

Specimen: 3-5/8" ProdStud144-22 (22mil) Steel Stud 24" o.c. on 22 mil tracks, (3.5" R-13 Insulation) 1 layer 5/8" Gypsum each side (See Full Report)

ΔTL, 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: 3-5/8" ProdStud144-22 (22mil) Steel Stud 24" o.c. on 22 mil tracks, (3.5" R-13 Insulation) 1 layer 5/8" Gypsum 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	Reference Sound Spectrum,	Test Specimen	
Center Frequency, Hz	dB	Transmission Loss, dB	
80	103	12	
100	102	18	
125	101	29	
160	98	34	
200	97	38	
250	95	41	
315	94	42	
400	93	45	
500	93	48	
630	91	50	
800	90	53	
1000	89	53	
1250	89	56	
1600	88	55	
2000	88	45	
2500	87	42	
3150	85	44	
4000	84	49	

OITC = 30



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APPENDIX E: Instruments of Traceability

Specimen: 3-5/8" ProdStud144-22 (22mil) Steel Stud 24" o.c. on 22 mil tracks, (3.5" R-13 Insulation) 1 layer 5/8" Gypsum each side (See Full Report)

		Serial	Date of	Calibration
Description	Model	Number	Certification	<u>Due</u>
System 2	Type 3160-A-042	3160- 106974	2023-08-11	2024-08-11
Bruel & Kjaer Mic And Preamp C	Type 4943-B-001	2311439	2024-03-29	2025-03-29
EXTECH Hygro 663	SD700	A083663	2023-12-28	2024-12-28
EXTECH Hygro 639	SD700	A.103639	2023-12-01	2024-12-01

APPENDIX F: Revisions to Original Test Report

Specimen: 3-5/8" ProdStud144-22 (22mil) Steel Stud 24" o.c. on 22 mil tracks, (3.5" R-13 Insulation) 1 layer 5/8" Gypsum each side (See Full Report)

<u>Date</u> <u>Revision</u>

2024-08-22 Original report issued

END



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