

627 RIVERBANK DRIVE
GENEVA, IL 60134

Test Report

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630-232-0104

FOUNDED 1918 BY

WALLACE CLEMENT SABINE

Sound Transmission Loss

RAL™-TL24-313

SPONSOR: **ClarkDietrich**
West Chester, OH

CONDUCTED: 2024-07-17

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ON: ProStud Motion Frame, 2-1/2" 15 mil Steel Stud 24"o.c, 3.5" R-13 Insulation, 1 layer 5/8"
Gypsum each side with RC-Deluxe on Source

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.

INFORMATION PROVIDED BY SPONSOR

The test specimen was designated by the sponsor as ProStud Motion Frame, 2-1/2" 15 mil Steel Stud 24"o.c, 3.5" R-13 Insulation, 1 layer 5/8" Gypsum each side with RC-Deluxe on Source.

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)

Top Track Materials:	ProSTUD 25 / 15mil (25ga EQ)
Bottom Track Materials:	ProTRAK 25 / 15mil (25ga EQ)
Manufacturer:	ClarkDietrich
Dimensions:	2 plates @ 2438 mm (96 in.) wide by 32 mm (1.25 in.) high
Depth:	64 mm (2.5 in.)
Steel Thickness:	Bottom track @ 0.44 mm (0.0175 in.) Top track @ 0.44 mm (0.0175 in.)
Installation:	Friction fit over foam sill sealer
Overall Weight:	1.81 kg (4 lbs)
Mass per Unit Length:	0.37 kg/m (0.25 lbs/ft)

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SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

Studs

Material: ProSTUD 25 / 15mil (25ga EQ)
Manufacturer: ClarkDietrich
Dimensions: 5 studs @ 32 mm (1.25 in.) wide by 2680 mm (105.5 in.) high
Depth: 64 mm (2.5 in.)
Steel Thickness: 0.44 mm (0.01715 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 at bottom friction fit on to Protrak 25, spaced 3/8" from track.
Studs at top engaged with ProStud Motion Frame connector to connect with Protrak atop.
Fasteners: Type W bugle head drywall screws, length @ 32 mm (1.25 in.)
Overall Weight: 5.67 kg (12.5 lbs)
Mass per Unit Length: 0.42 kg/m (0.28 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 (0.79 kg (1.75 lbs) total).

ProStud Motion Frame Connectors

Material: ProStud Motion Frame Connectors
Manufacturer: ClarkDietrich
Dimensions: 5 pieces @ 32 mm (1.25 in.) wide by 121 mm (4.75 in.) high
Depth: 64 mm (2.5 in.)
Installation: One ProStud Motion Frame Connector fit into each stud top, ProStud Motion Frame Connector then twist locked into top track
Overall Weight: 0.45 kg (1 lbs)

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)



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SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

Source Room Side

Resilient Channel

Material: RC Deluxe® Resilient Channel (RCSD)
Manufacturer: ClarkDietrich
Dimensions: 6 pieces @ 2438 mm (96 in.) wide by 64 mm (2.5 in.) high
Thickness: 13 mm (0.5 in.)
Installation: Top row spaced 25 mm (1 in.) below bottom of ProStud Motion Frame
Connectors
Bottom row spaced 38 mm (1.5 in.) above test frame bottom
Other rows spaced 610 mm (24 in.) on center
Bottom row inverted
Fasteners: Wafer head stud screws, length @ 13 mm (0.5 in.)
Overall Weight: 4.42 kg (9.75 lbs)
Mass per Unit Length: 0.30 kg/m (0.20 lbs/ft)

Gypsum Board

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 resilient channel with screws
Fasteners: Type S bugle head drywall screws, length @ 25 mm (1 in.)
Fastener Spacing: 305 mm (12 in.) on center
Overall Weight: 73.37 kg (161.75 lbs)
Mass Per Unit Area: 10.97 kg/m² (2.25 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
No screws in top track
Overall Weight: 73.14 kg (161.25 lbs)
Mass Per Unit Area: 10.93 kg/m² (2.24 lbs/ft²)

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: 0.11 m (4.25 in)
Weight: 167.49 kg (369.25 lbs)
Overall Area: 6.689 m² (72. ft²)
Mass per Unit Area: 25.04 kg/m² (5.13 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: 22.5 °C ± 0.6 °C
Relative Humidity: 60.5 % ± 1.0 %

Receive Room

Volume: 178.33 m³
Temperature: 22.5 °C ± 0.6 °C
Relative Humidity: 60.0 % ± 2.0 %

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 – Stud with ProStud Motion Frame Connector attached, prior to installation in test aperture



Figure 4 – Tracks, studs, ProStud Motion Frame Connectors, and resilient channel installed in test aperture

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Figure 5 – Stud with ProStud Motion Frame Connector fit into top track, resilient channel installed to source side of studs



Figure 6 – Studs with ProStud Motion Frame Connectors fit into top track, resilient channel installed to source side of studs

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Figure 7 – Source side gypsum board partially installed



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

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Figure 9 – Insulation installed in stud cavities, 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.

<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	17	0.80	0	800	60	0.18	0
125	27	0.79	8	1000	62	0.14	0
160	34	0.31	4	1250	63	0.08	0
200	39	0.36	2	1600	62	0.13	0
250	44	0.39	0	2000	54	0.16	1
315	49	0.24	0	2500	50	0.09	5
400	51	0.21	0	3150	54	0.06	1
500	53	0.26	0	4000	58	0.07	0
630	56	0.27	0	5000	62	0.07	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 = 21)
STC = SOUND TRANSMISSION CLASS

Tested by Marc Sciaky
Marc Sciaky
Senior Experimentalist

Report by Keith Kimberling
Keith Kimberling
Test Engineer

Approved by Eric P. Wolfram
Eric P. Wolfram
Laboratory Manager

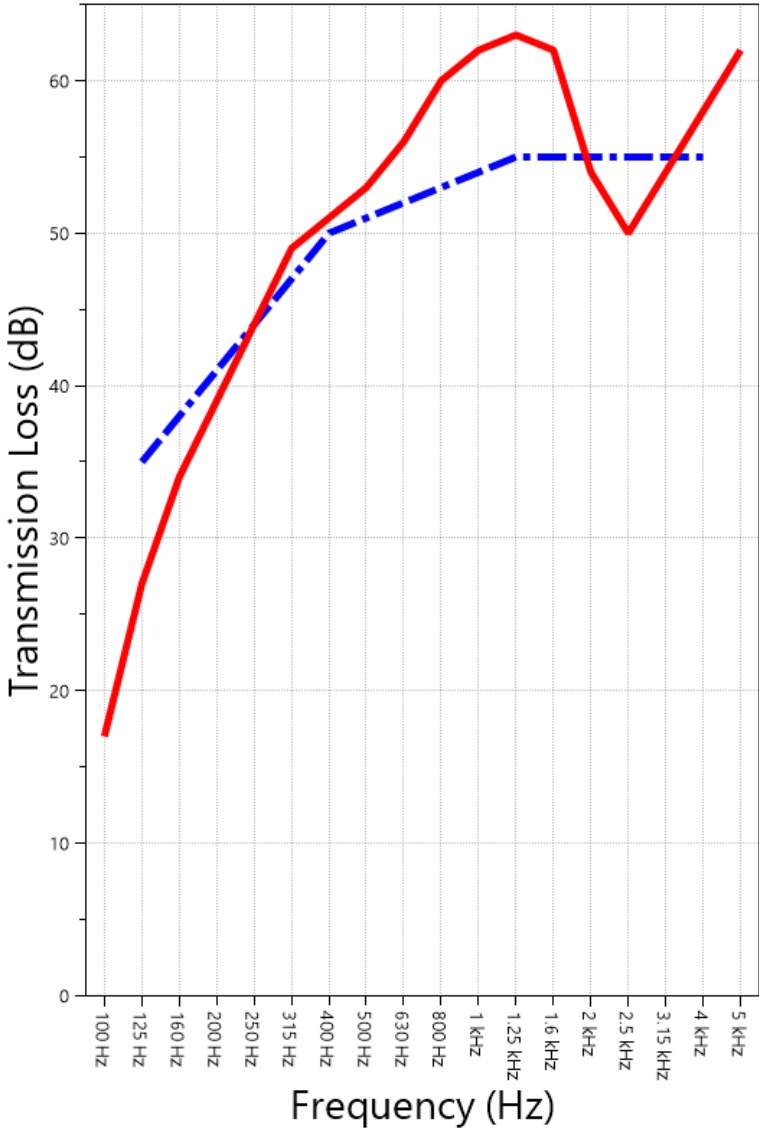
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SOUND TRANSMISSION REPORT

ProStud Motion Frame, 2-1/2" 15 mil Steel Stud 24"o.c, 3.5" R-13 Insulation, 1 layer
5/8" Gypsum each side with RC-Deluxe on Source



STC=51
OITC=28



TRANSMISSION LOSS
SOUND TRANSMISSION CLASS CONTOUR

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APPENDIX A: Extended Frequency Range Data

Specimen: ProStud Motion Frame, 2-1/2" 15 mil Steel Stud 24"o.c, 3.5" R-13 Insulation, 1 layer 5/8" Gypsum each side with RC-Deluxe on Source (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	21	ZZ F	0.88	1.01
40	21	Z F	0.53	2.26
50	15		0.69	1.52
63	11		0.59	1.47
80	10		0.58	0.60
100	17		0.80	0.67
125	27		0.79	0.71
160	34		0.31	0.35
200	39		0.36	0.33
250	44		0.39	0.42
315	49		0.24	0.41
400	51		0.21	0.46
500	53		0.26	0.18
630	56		0.27	0.26
800	60		0.18	0.24
1000	62		0.14	0.27
1250	63		0.08	0.15
1600	62		0.13	0.12
2000	54		0.16	0.13
2500	50		0.09	0.19
3150	54		0.06	0.14
4000	58		0.07	0.17
5000	62		0.07	0.17
6300	66	Z	0.08	0.21
8000	68	Z F	0.11	0.50
10000	63	Z F	0.12	1.21
12500	57	Z F	0.09	1.74

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APPENDIX B: Glossary of Standardized Corrections and Adjustments

Specimen: ProStud Motion Frame, 2-1/2" 15 mil Steel Stud 24"o.c, 3.5" R-13 Insulation, 1 layer 5/8" Gypsum each side with RC-Deluxe on Source (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 (∞) .

APPENDIX C: Glossary of Variability Metrics

Specimen: ProStud Motion Frame, 2-1/2" 15 mil Steel Stud 24"o.c, 3.5" R-13 Insulation, 1 layer 5/8" Gypsum each side with RC-Deluxe on Source (See Full Report)

ATL, 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: ProStud Motion Frame, 2-1/2" 15 mil Steel Stud 24"o.c, 3.5" R-13 Insulation, 1 layer 5/8" Gypsum each side with RC-Deluxe on Source (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	17
125	101	27
160	98	34
200	97	39
250	95	44
315	94	49
400	93	51
500	93	53
630	91	56
800	90	60
1000	89	62
1250	89	63
1600	88	62
2000	88	54
2500	87	50
3150	85	54
4000	84	58

OITC = 28

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APPENDIX E: Instruments of Traceability

Specimen: ProStud Motion Frame, 2-1/2” 15 mil Steel Stud 24”o.c, 3.5” R-13 Insulation, 1 layer 5/8”
Gypsum each side with RC-Deluxe on Source (See Full Report)

<u>Description</u>	<u>Model</u>	<u>Serial Number</u>	<u>Date of Certification</u>	<u>Calibration 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: ProStud Motion Frame, 2-1/2” 15 mil Steel Stud 24”o.c, 3.5” R-13 Insulation, 1 layer 5/8”
Gypsum each side with RC-Deluxe on Source (See Full Report)

<u>Date</u>	<u>Revision</u>
2024-08-22	Original report issued

END