

627 RIVERBANK DRIVE
GENEVA, IL 60134

Test Report

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630-232-0104

FOUNDED 1918 BY
WALLACE CLEMENT SABINE

SPONSOR: **OEG Building Materials**
Sayreville, NJ

Sound Transmission Loss
RAL™-TL24-434

CONDUCTED: 2024-09-24

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ON: 3-5/8" Phantom 25 Wall (24"o.c.) with OEG RC-MAX-18, Single Layer 5/8" Type-X Both Sides

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 3-5/8" Phantom 25 Wall (24"o.c.) with OEG RC-MAX-18, Single Layer 5/8" Type-X Both Sides. The following nominal product information was provided by the sponsor prior to testing. The accuracy of such sponsor-provided information can affect the validity of the test results.

Product Under Test

Product Name: Phantom 25 Tracks, Phantom 25 Studs, RC-MAX-18
Manufacturer: OEG Building Materials

SPECIMEN MEASUREMENTS & TEST CONDITIONS

The building contractor (Seth Priser) and RAL staff compiled a detailed construction specification as follows:

Tracks (Top & Bottom) (Product Under Test)

Material: Phantom 25 Tracks
Manufacturer: OEG Building Materials
Dimensions: 2 tracks @ 2448 mm (96.375 in.) wide by 32 mm (1.25 in.) high
Depth: 92 mm (3.625 in.)
Steel Thickness: 0.42 mm (0.01655 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 (Product Under Test)

Material: Phantom 25 Studs
Manufacturer: OEG Building Materials
Dimensions: 5 studs @ 32 mm (1.25 in.) wide by 2740 mm (107.875 in.) high
Depth: 92 mm (3.625 in.)
Steel Thickness: 0.41 mm (0.01625 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 fastened to top and bottom tracks, 1 screw at each connection point
Fasteners: 8# wafer head stud screws, length @ 13 mm (0.5 in.)
Overall Weight: 6.8 kg (15 lbs)
Mass per Unit Length: 0.50 kg/m (0.33 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 (1.02 kg (2.25 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: 7.03 kg (15.5 lbs)
Mass per Unit Volume: 11.4 kg/m³ (0.71 lbs/ft³)

Source Room Side

Resilient Channel (Product Under Test)

Material: RC-MAX-18
Manufacturer: OEG Building Materials
Dimensions: 6 pieces @ 2438 mm (96 in.) wide by 64 mm (2.5 in.) high
Depth: 13 mm (0.5 in.)
Steel Thickness: 0.5 mm (0.0195 in.)
Installation: Top and bottom rows spaced 102 mm (4 in.) apart from test frame
Other rows spaced 610 mm (24 in.) on center
Bottom row inverted
Fasteners: 8# wafer head stud screws, length @ 13 mm (0.5 in.)
Overall Weight: 3.97 kg (8.75 lbs)
Mass per Unit Length: 0.27 kg/m (0.18 lbs/ft)



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SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

Source Room Side (continued)

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 studs with screws
Fasteners: Type S bugle head drywall screws, length @ 25 mm (1 in.)
Fastener Spacing: 406 mm (16 in.) on center
Overall Weight: 73.6 kg (162.25 lbs)
Mass Per Unit Area: 11.00 kg/m² (2.25 lbs/ft²)

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: 73.71 kg (162.5 lbs)
Mass Per Unit Area: 11.02 kg/m² (2.26 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: 0.14 m (5.375 in)
Weight: 168.96 kg (372.5 lbs)
Overall Area: 6.689 m² (72. ft²)
Mass per Unit Area: 25.26 kg/m² (5.17 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: 22.2 °C ± 0.0 °C
Relative Humidity: 60.0 % ± 0.0 %

Receive Room

Volume: 178.33 m³
Temperature: 22.2 °C ± 0.0 °C
Relative Humidity: 59.0 % ± 0.0 %

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, studs, and resilient channel installed in test aperture, view from source room side



Figure 4 – Detail of studs fastened to track and resilient channel fastened to studs

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Figure 5 – Insulation partially installed in stud cavities, source room side gypsum partially installed



Figure 6 – Insulation installed, receive room side gypsum partially installed, view 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	20	0.69	0	800	60	0.19	0
125	30	0.49	6	1000	62	0.14	0
160	35	0.54	4	1250	62	0.07	0
200	39	0.31	3	1600	59	0.11	0
250	43	0.43	2	2000	52	0.09	4
315	49	0.16	0	2500	51	0.08	5
400	51	0.23	0	3150	55	0.07	1
500	54	0.13	0	4000	59	0.04	0
630	57	0.13	0	5000	63	0.07	0

STC=52

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 = 25)
- STC = SOUND TRANSMISSION CLASS

Tested by *Marc Sciaky*
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 Senior Experimentalist

Report by *Keith Kimberling*
 Keith Kimberling
 Test Engineer

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



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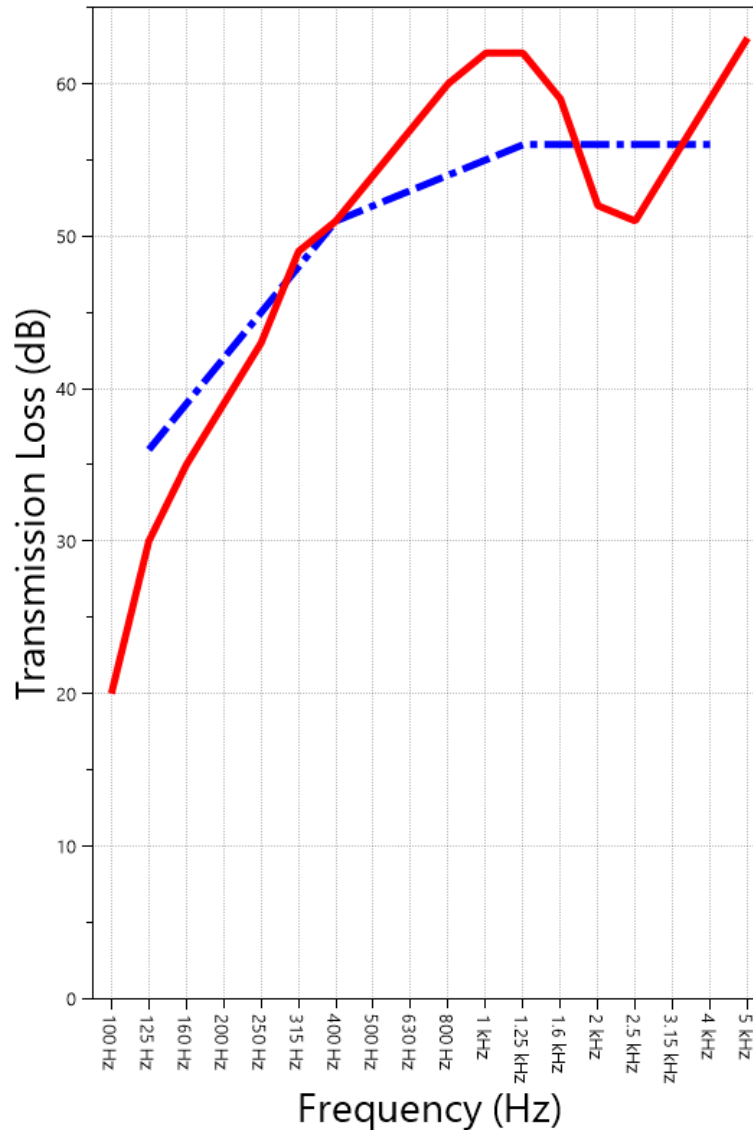
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SOUND TRANSMISSION REPORT

3-5/8" Phantom 25 Wall (24"o.c.) with OEG RC-MAX-18, Single Layer 5/8" Type-X Both Sides



STC=52

OITC=30



TRANSMISSION LOSS

SOUND TRANSMISSION CLASS CONTOUR



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APPENDIX A: Extended Frequency Range Data

Specimen: 3-5/8" Phantom 25 Wall (24"o.c.) with OEG RC-MAX-18, Single Layer 5/8" Type-X Both Sides
(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	Δ TL (Eq. A2.5) (dB)	Repeatability (dB)
31.5	20	ZZ F	0.74	1.01
40	19	Z	1.02	2.26
50	14		0.99	1.52
63	12		0.50	1.47
80	12		0.37	0.60
100	20		0.69	0.67
125	30		0.49	0.71
160	35		0.54	0.35
200	39		0.31	0.33
250	43		0.43	0.42
315	49		0.16	0.41
400	51		0.23	0.46
500	54		0.13	0.18
630	57		0.13	0.26
800	60		0.19	0.24
1000	62		0.14	0.27
1250	62		0.07	0.15
1600	59		0.11	0.12
2000	52		0.09	0.13
2500	51		0.08	0.19
3150	55		0.07	0.14
4000	59		0.04	0.17
5000	63		0.07	0.17
6300	66	Z	0.11	0.21
8000	67	Z F	0.11	0.50
10000	62	Z F	0.10	1.21
12500	56	Z F	0.09	1.74



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APPENDIX B: Glossary of Standardized Corrections and Adjustments

Specimen: 3-5/8" Phantom 25 Wall (24"o.c.) with OEG RC-MAX-18, Single Layer 5/8" Type-X Both Sides (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: 3-5/8" Phantom 25 Wall (24"o.c.) with OEG RC-MAX-18, Single Layer 5/8" Type-X Both Sides (See Full Report)

Δ 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: 3-5/8" Phantom 25 Wall (24"o.c.) with OEG RC-MAX-18, Single Layer 5/8" Type-X Both Sides (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	12
100	102	20
125	101	30
160	98	35
200	97	39
250	95	43
315	94	49
400	93	51
500	93	54
630	91	57
800	90	60
1000	89	62
1250	89	62
1600	88	59
2000	88	52
2500	87	51
3150	85	55
4000	84	59

OITC = 30



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APPENDIX E: Instruments of Traceability

Specimen: 3-5/8" Phantom 25 Wall (24"o.c.) with OEG RC-MAX-18, Single Layer 5/8" Type-X Both Sides
(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 639	SD700	A.103639	2023-12-01	2024-12-01

APPENDIX F: Revisions to Original Test Report

Specimen: 3-5/8" Phantom 25 Wall (24"o.c.) with OEG RC-MAX-18, Single Layer 5/8" Type-X Both Sides (See Full Report)

<u>Date</u>	<u>Revision</u>
2024-10-11	Original report issued

END