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

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SPONSOR: OEG Building Materials

Sayreville, NJ

Sound Transmission Loss RALTM-TL24-433

CONDUCTED: 2024-09-24 Page 1 of 13

ON: 3-5/8" Phantom 20 Wall (16"o.c.) with OEG RC-MAX-18, Double Layer 5/8" Type-X on Source

Side, Single Layer 5/8" Type-X on Receive 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" Phantom 20 Wall (16"o.c.) with OEG RC-MAX-18, Double Layer 5/8" Type-X on Source Side, Single Layer 5/8" Type-X on Receive Side. 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 20 Tracks, Phantom 20 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 20 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: 0.52 mm (0.0206 in.)

Installation: Friction fit over foam sill sealer

Overall Weight: 3.18 kg (7 lbs)

Mass per Unit Length: 0.65 kg/m (0.44 lbs/ft)



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SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

Studs (Product Under Test)

Material: Phantom 20 Studs Manufacturer: OEG Building Materials

Dimensions: 7 studs @ 32 mm (1.25 in.) wide by 2740 mm (107.875 in.) high

Depth: 92 mm (3.625 in.) Steel Thickness: 0.53 mm (0.0207 in.)

Stud Spacing: Studs spaced 406 mm (16 in.) on center

Installation: Side stude 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: 12.36 kg (27.25 lbs)
Mass per Unit Length: 0.64 kg/m (0.43 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: 6 pieces @ 406 mm (16 in.) wide by 2438 mm (96 in.) high

6 pieces @ 406 mm (16 in.) wide by 305 mm (12 in.) high

Depth: 92 mm (3.625 in.)

Installation: Friction fit between studs

Overall Weight: 7.48 kg (16.5 lbs)

Mass per Unit Volume: 12.2 kg/m³ (0.76 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: 3.86 kg (8.5 lbs)

Mass per Unit Length: 0.26 kg/m (0.18 lbs/ft)



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SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

Source Room Side (continued)

Base Layer

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)

Face Layer

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 study through base layer with screws

Panel joints staggered from base layer panel joints

Fasteners: Type S bugle head drywall screws, length @ 41 mm (1.625 in.)

Fastener Spacing: 406 mm (16 in.) on center

Overall Weight: 73.48 kg (162 lbs)

Mass Per Unit Area: 10.99 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

1 panel @ 813 mm (32 in.) wide by 2743 mm (108 in.) high 1 panel @ 406 mm (16 in.) wide by 2743 mm (108 in.) high

Thickness: 16 mm (0.625 in.)

Installation: Panels installed vertically, fastened to study with screws

Panel joints staggered from source side base layer 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: 73.26 kg (161.5 lbs) Mass Per Unit Area: 10.95 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: 0.15 m (6.0 in)

Weight: 248.68 kg (548.25 lbs) Overall Area: 6.689 m² (72. ft²)

Mass per Unit Area: 37.18 kg/m² (7.61 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: $22.2 \, ^{\circ}\text{C} \pm 0.0 \, ^{\circ}\text{C}$ Relative Humidity: $56.0 \, \% \pm 0.0 \, \%$

Receive Room

Volume: 178.33 m³

Temperature: $22.2 \,^{\circ}\text{C} \pm 0.0 \,^{\circ}\text{C}$ Relative Humidity: $56.0 \,\% \pm 0.0 \,\%$

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.



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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, resilient channel, and source side base layer gypsum installed, view from receive room



Figure 4 – Detail of studs fastened to track



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Figure 5 – Source room side base layer gypsum installed, view from source room side



Figure 6 – Insulation installed in stud cavities, view from receive room side



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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>	<u>ΔTL</u>	DEF.	FREQ.	<u>TL</u>	<u>ΔTL</u>	DEF.
100	26	0.55	0	800	61	0.17	0
125	30	1.66	8	1000	63	0.12	0
160	39	0.49	2	1250	65	0.08	0
200	43	0.38	1	1600	61	0.14	0
250	47	0.42	0	2000	54	0.11	4
315	52	0.22	0	2500	54	0.08	4
400	55	0.25	0	3150	59	0.10	0
500	58	0.12	0	4000	63	0.06	0
630	59	0.18	0	5000	65	0.06	0

STC=54

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 = 19)

STC = SOUND TRANSMISSION CLASS

Tested by

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Senior Experimentalist

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Keith Kimberling

Test Engineer

Approved by

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Laboratory Manager

TESTING

NVLAP LAB CODE 100227-0

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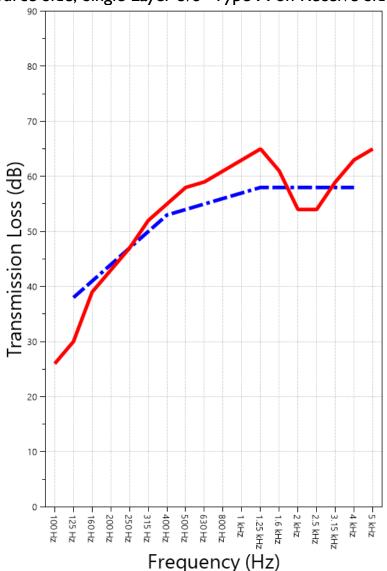
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SOUND TRANSMISSION REPORT

3-5/8" Phantom 20 Wall (16"o.c.) with OEG RC-MAX-18, Double Layer 5/8" Type-X on Source Side, Single Layer 5/8" Type-X on Receive Side



STC=54 OITC=34

TRANSMISSION LOSS
SOUND TRANSMISSION CLASS CONTOUR



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APPENDIX A: Extended Frequency Range Data

Specimen: 3-5/8" Phantom 20 Wall (16"o.c.) with OEG RC-MAX-18, Double Layer 5/8" Type-X on Source Side, Single Layer 5/8" Type-X on Receive 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	Sound			
Center Frequency	Transmission Loss	Applicable	ΔTL (Eq. A2.5)	Repeatability
(Hz)	(dB)	Corrections	(dB)	(dB)
31.5	20	ZZ F	1.09	1.01
40	19	Z F	0.45	2.26
50	18		0.74	1.52
63	19		0.46	1.47
80	15		0.47	0.60
100	26		0.55	0.67
125	30		1.66	0.71
160	39		0.49	0.35
200	43	Z F	0.38	0.33
250	47	Z F	0.42	0.42
315	52	Z	0.22	0.41
400	55		0.25	0.46
500	58		0.12	0.18
630	59		0.18	0.26
800	61		0.17	0.24
1000	63		0.12	0.27
1250	65	Z	0.08	0.15
1600	61		0.14	0.12
2000	54		0.11	0.13
2500	54		0.08	0.19
3150	59		0.10	0.14
4000	63		0.06	0.17
5000	65		0.06	0.17
6300	69	ZF	0.08	0.21
8000	70	ZZ F	0.05	0.50
10000	64	ZZ F	0.06	1.21
12500	58	Z F	0.05	1.74



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APPENDIX B: Glossary of Standardized Corrections and Adjustments

Specimen: 3-5/8" Phantom 20 Wall (16"o.c.) with OEG RC-MAX-18, Double Layer 5/8" Type-X on Source Side, Single Layer 5/8" Type-X on Receive 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.
- 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" Phantom 20 Wall (16"o.c.) with OEG RC-MAX-18, Double Layer 5/8" Type-X on Source Side, Single Layer 5/8" Type-X on Receive 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" Phantom 20 Wall (16"o.c.) with OEG RC-MAX-18, Double Layer 5/8" Type-X on Source Side, Single Layer 5/8" Type-X on Receive 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	15		
100	102	26		
125	101	30		
160	98	39		
200	97	43		
250	95	47		
315	94	52		
400	93	55		
500	93	58		
630	91	59		
800	90	61		
1000	89	63		
1250	89	65		
1600	88	61		
2000	88	54		
2500	87	54		
3150	85	59		
4000	84	63		

OITC = 34



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APPENDIX E: Instruments of Traceability

Specimen: 3-5/8" Phantom 20 Wall (16"o.c.) with OEG RC-MAX-18, Double Layer 5/8" Type-X on Source Side, Single Layer 5/8" Type-X on Receive Side (See Full Report)

Description	Model	Serial Number	Date of Certification	Calibration <u>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 20 Wall (16"o.c.) with OEG RC-MAX-18, Double Layer 5/8" Type-X on Source Side, Single Layer 5/8" Type-X on Receive Side (See Full Report)

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

2024-10-11 Original report issued

END



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