

627 RIVERBANK DRIVE  
GENEVA, IL 60134

## Test Report

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630-232-0104

FOUNDED 1918 BY  
WALLACE CLEMENT SABINE

SPONSOR: **Overly Door Company**  
Greensburg, PA

**Sound Transmission Loss**  
**RAL™-TL26-111**

CONDUCTED: 2026-02-23

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ON: Overly Model STC4426111 Metal Door with 15" x 20" dual glazed vision lite, enhanced magnetic seals, and Zero 362 automatic door bottom (operable)

### 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 Overly Model STC4426111 Metal Door with 15" x 20" dual glazed vision lite, enhanced magnetic seals, and Zero 362 automatic door bottom (operable). 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**

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Product Name: Overly Model STC4426111 Metal Door with 15" x 20" dual glazed vision lite, enhanced magnetic seals, and Zero 362 automatic door bottom  
Manufacturer: Overly Door Company

### SPECIMEN MEASUREMENTS & TEST CONDITIONS

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

#### **Door Frame**

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Materials: Metal door frame, concrete casting at perimeter  
Dimensions: Overall @ 1194 mm (47 in.) wide by 2413 mm (95 in.) high  
Door frame @ 1013 mm (39.875 in.) wide by 2162 mm (85.125 in.) high  
Depth: 194 mm (7.625 in.)  
Overall Weight: 498.04 kg (1098 lbs)

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### SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

#### **Door Leaf**

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Materials: Metal exterior, dual glazed window, metal lockset, and level swing metal hinges  
Dimensions: 908 mm (35.75 in.) wide by 2124 mm (83.625 in.) high  
Thickness: 57 mm (2.25 in.)  
Window DLO: 381 mm (15 in.) wide by 508 mm (20 in.) high  
Glazing Composition\*: Source side @ 10.3 mm (0.406 in.)  
Gap @ 23.7 mm (0.933 in.)  
Receive side @ 7.3 mm (0.287 in.)  
Total @ 41.2 mm (1.622 in.)  
Installation: Suspended from jamb of door frame via three (3) hinges  
Door opens into source room  
Overall Weight: Door leaf @ 122.02 kg (269 lbs)  
Hinges @ 2.04 kg (4.5 lbs)  
Door handle and lock @ 1.93 kg (4.25 lbs)

*\*Note: Glass thickness was measured via interferometer.*

#### **Additional Door Hardware**

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##### **Magnetic Seal Retainers & Gaskets**

Materials: Metal angled pieces, foam gaskets  
Installation: Fastened to perimeter of door frame  
Overall Weight: 8.16 kg (18 lbs)

##### **Zero 362 Semi-Mortised Door Bottom**

Installation: Door bottom fits flush with receive room side face of door leaf via matching routed channel in door leaf  
Overall Weight: 1.13 kg (2.5 lbs)

*Note: The specimen was fully opened and closed five (5) times immediately prior to testing in order to demonstrate operability. No further adjustments were made to the specimen.*



NVLAP LAB CODE 100227-0

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### SPECIMEN MEASUREMENTS & TEST CONDITIONS (continued)

#### Overall Specimen Measurements

Dimensions: 1.01 m (39.875 in) wide by 2.16 m (85.125 in) high  
Thickness: 0.19 m (7.625 in)  
Weight: 633.33 kg (1396.25 lbs)  
Overall Area: 2.19 m<sup>2</sup> (23.57 ft<sup>2</sup>)  
Mass per Unit Area: 289.2 kg/m<sup>2</sup> (59.23 lbs/ft<sup>2</sup>)

#### Test Aperture

Opening Size: 1.22 m (4.0 ft.) by 2.44 m (8.0 ft.)  
Filler Wall: Yes  
Aperture Size: 1.01 m (39.875 in) wide by 2.16 m (85.125 in) high  
Transmission Area: 2.19 m<sup>2</sup> (23.57 ft<sup>2</sup>)  
Sealed: Entire periphery (both sides) with dense mastic

*\*Note: The dimensions used to determine the transmission area exclude those of the concrete-filled frame into which the door frame was cast. Given that the transmission loss performance of massive solid partitions is expected to be considerably greater than that of operable doors, the amount of flanking sound transmission through the mastic-covered concrete is assumed to be negligible. The specimen dimensions reflect this assumption.*

#### Test Environment

##### Source Room

Volume: 178.33 m<sup>3</sup>  
Temperature: 21.1 °C ± 0.0 °C  
Relative Humidity: 51.5 % ± 0.5 %

##### Receive Room

Volume: 131.02 m<sup>3</sup>  
Temperature: 21.7 °C ± 0.0 °C  
Relative Humidity: 50.5 % ± 0.5 %

##### 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 (left) and receive room (right)

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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	28	0.56	0	800	43	0.23	3
125	27	0.51	1	1000	42	0.13	5
160	31	0.62	0	1250	43	0.16	5
200	31	0.48	3	1600	46	0.21	2
250	38	0.92	0	2000	50	0.25	0
315	43	0.31	0	2500	53	0.25	0
400	41	0.41	2	3150	53	0.18	0
500	41	0.38	3	4000	51	0.22	0
630	44	0.26	1	5000	52	0.20	0

STC=44

ABBREVIATION INDEX

- FREQ. = 1/3 OCTAVE BAND CENTER FREQUENCY, Hz
- TL = TRANSMISSION LOSS, dB
- ΔTL = 95% CONFIDENCE INTERVAL OVER DURATION OF THIS TEST, dB
- DEF. = DEFICIENCIES, dB BELOW SHIFTED STC CONTOUR (SUM OF DEF = 25)
- STC = SOUND TRANSMISSION CLASS

Tested by Keith Kimberling  
Keith Kimberling  
Test Engineer

Report by Keith Kimberling  
Keith Kimberling  
Test Engineer

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



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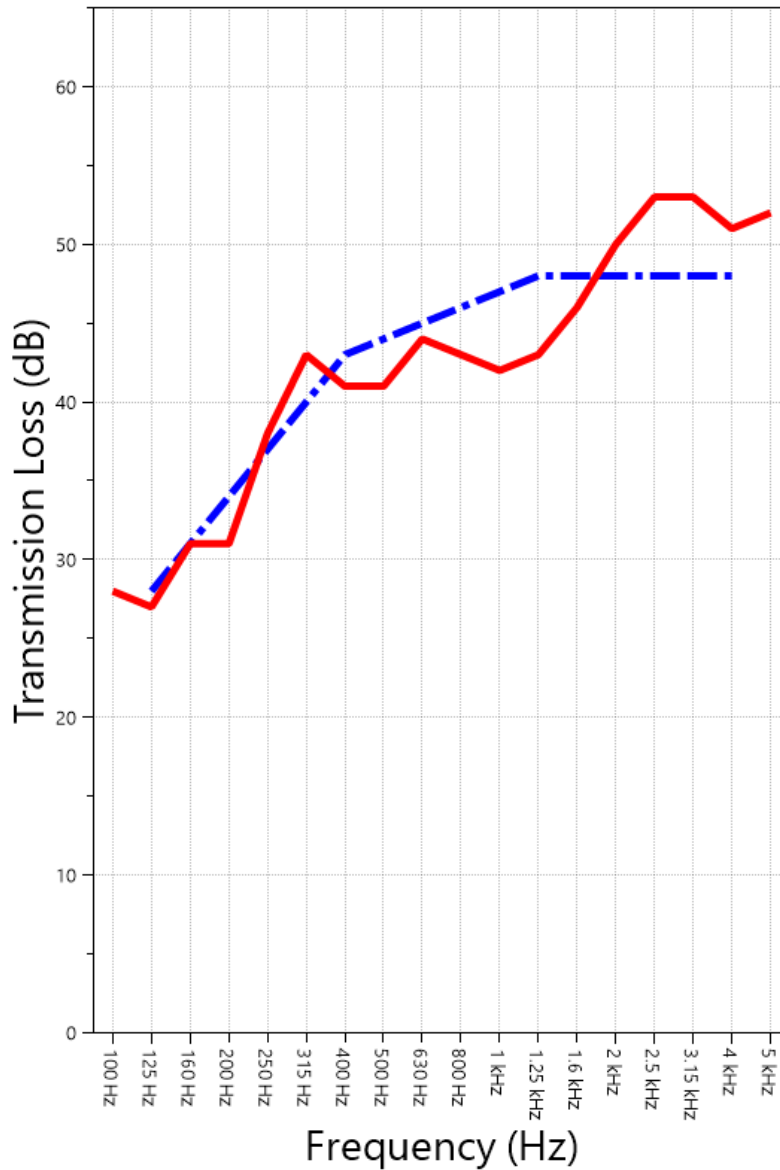
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**Overly Door Company**  
 2026-02-23

**SOUND TRANSMISSION REPORT**

Overly Model STC4426111 Metal Door with 15" x 20" dual glazed vision lite, enhanced magnetic seals, and Zero 362 automatic door bottom (operable)



**STC=44**  
**OITC=36**



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



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### APPENDIX A: Extended Frequency Range Data

Specimen: Overly Model STC4426111 Metal Door with 15" x 20" dual glazed vision lite, enhanced magnetic seals, and Zero 362 automatic door bottom (operable) (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	$\Delta$ TL (Eq. A2.5) (dB)	Repeatability (dB)
31.5	26	<i>A F</i>	1.47	1.24
40	31	<i>F</i>	0.98	1.44
50	27		1.41	0.98
63	24		2.65	2.33
80	22		1.66	1.46
100	28		0.56	0.77
125	27		0.51	1.28
160	31		0.62	1.18
200	31		0.48	0.74
250	38		0.92	0.53
315	43		0.31	0.46
400	41		0.41	0.41
500	41		0.38	0.41
630	44		0.26	0.32
800	43		0.23	0.30
1000	42		0.13	0.29
1250	43		0.16	0.15
1600	46		0.21	0.18
2000	50		0.25	0.12
2500	53		0.25	0.28
3150	53		0.18	0.23
4000	51		0.22	0.18
5000	52		0.20	0.26
6300	52		0.22	0.28
8000	52		0.37	0.67
10000	51	<i>F</i>	0.34	0.93
12500	47	<i>F</i>	0.44	1.93



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

Specimen: Overly Model STC4426111 Metal Door with 15" x 20" dual glazed vision lite, enhanced magnetic seals, and Zero 362 automatic door bottom (operable) (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: Overly Model STC4426111 Metal Door with 15" x 20" dual glazed vision lite, enhanced magnetic seals, and Zero 362 automatic door bottom (operable) (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 2020-02-24. The tests were performed on a specimen composed of welded aluminum tubing, 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: Overly Model STC4426111 Metal Door with 15” x 20” dual glazed vision lite, enhanced magnetic seals, and Zero 362 automatic door bottom (operable) (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	22
100	102	28
125	101	27
160	98	31
200	97	31
250	95	38
315	94	43
400	93	41
500	93	41
630	91	44
800	90	43
1000	89	42
1250	89	43
1600	88	46
2000	88	50
2500	87	53
3150	85	53
4000	84	51

*OITC = 36*



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### APPENDIX E: Instruments of Traceability

Specimen: Overly Model STC4426111 Metal Door with 15" x 20" dual glazed vision lite, enhanced magnetic seals, and Zero 362 automatic door bottom (operable) (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	3160-106974	2025-08-20	2026-08-20
Bruel & Kjaer Mic And Preamp C	Type 4943-B-001	2311439	2025-04-11	2026-04-11
Bruel & Kjaer Pistonphone	Type 4228	2781248	2025-07-21	2026-07-21
EXTECH Hygro 959	SD700	A.099959	2025-04-17	2026-04-17
EXTECH Hygro 6015	SD700	A.116015	2025-06-17	2026-06-17

### APPENDIX F: Revisions to Original Test Report

Specimen: Overly Model STC4426111 Metal Door with 15" x 20" dual glazed vision lite, enhanced magnetic seals, and Zero 362 automatic door bottom (operable) (See Full Report)

<u>Date</u>	<u>Revision</u>
2026-03-17	Original report issued

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END



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