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# WINDLOCH, LLC
# ACOUSTICAL PERFORMANCE TEST REPORT

**SCOPE OF WORK**
ASTM E90 SOUND TRANSMISSION LOSS TESTING A FIXED WINDOW FOR THE 3 ST. MARK'S PLACE, NEW YORK CITY, NEW YORK PROJECT

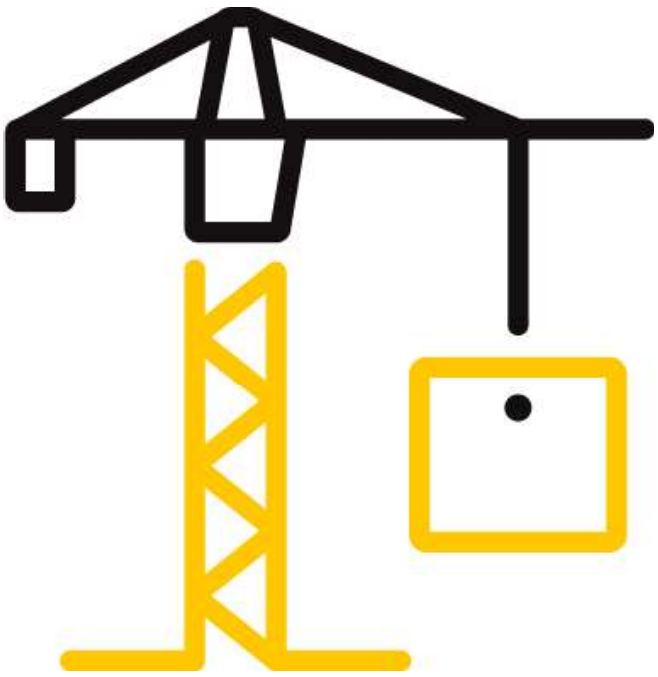
**REPORT NUMBER**
P5109.02-113-11-R0

**TEST DATE**
12/29/22

**ISSUE DATE**
01/06/23

**PAGES**
16

**DOCUMENT CONTROL NUMBER**
RT-R-AMER-Test-2761 (09/09/22)

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**TEST REPORT FOR WINDLOCH, LLC**
Report No.: P5109.02-113-11-R0
Date: 01/06/23

**REPORT ISSUED TO**
**WINDLOCH, LLC**
467 Brook Avenue, Unit C
Deer Park, New York 11729

## SECTION 1
## SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Windloch, LLC to conduct a sound transmission loss test. Results obtained are tested values and were secured by using the designated test methods. The complete test data is included herein. The client provided the test specimen. All measurements were conducted in the HT test chambers at Intertek B&C located in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

For INTERTEK B&C:

| | | | |
|---|---|---|---|
| **COMPLETED BY:** | Cody L. French | **REVIEWED BY:** | Kurt A. Golden |
| **TITLE:** | Technician<br>Acoustical Testing | **TITLE:** | Manager<br>Acoustical Testing |
| **SIGNATURE:** | Digitally Signed by: Cody French | **SIGNATURE:** | Digitally Signed by: Kurt A. Golden |
| **DATE:** | 01/06/23 | **DATE:** | 01/06/23 |

CLF:jmcs

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## SECTION 2
**SUMMARY OF TEST RESULTS**

| | |
|---|---|
| **PROJECT** | 3 St. Mark's Place, New York City, New York |
| **TYPE** | Fixed Window |

| | |
|---|---|
| **GLAZING (Nominal Dimensions)** | 1-1/4" IG (1/4" tempered exterior, 3/4" air space, 1/4" tempered interior) |
| **DATA FILE NO.** | P5109.01G |
| **STC** | 36 |
| **OITC** | 27 |

| | |
|---|---|
| **GLAZING (Nominal Dimensions)** | 1-3/8" IG (1/4" tempered exterior, 13/16" air space, 5/16" tempered interior) |
| **DATA FILE NO.** | P5109.01H |
| **STC** | 38 |
| **OITC** | 30 |

| | |
|---|---|
| **GLAZING (Nominal Dimensions)** | 1-9/16" IG (1/4" tempered exterior, 3/4" air space, 9/16" laminated interior) |
| **DATA FILE NO.** | P5109.01J |
| **STC** | 42 |
| **OITC** | 33 |

## SECTION 3
**TEST METHODS**

The specimens were evaluated in accordance with the following:

**ASTM E90-09 (2016),** *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements*

**ASTM E413-22,** *Classification for Rating Sound Insulation*

**ASTM E1332-22,** *Standard Classification for Rating Outdoor-Indoor Sound Attenuation*

**ASTM E2235-04 (2020),** *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods*

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## SECTION 4
## SPECIMEN INSTALLATION

A sound transmission loss test was initially performed on a filler wall.

The specimen plug was removed from the filler wall assembly. The specimen was placed on an isolation pad in the test opening. Duct seal was used to seal the perimeter of the specimen to the test opening on both sides. The interior side of the specimen, when installed, was approximately 1/4" from being flush with the receive room side of the filler wall. A stethoscope was used to check for any abnormal air leaks around the test specimen prior to testing. Operable portions of the test specimen, if any, were cycled at least five times prior to testing.

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## SECTION 5
## EQUIPMENT

The equipment listed below meets the requirements of the test methods stated in Section 3 of this report.

| INSTRUMENT | MANUFACTURER | MODEL | DESCRIPTION | ASSET # | CAL DATE |
|---|---|---|---|---|---|
| 2-Channel Analog Input | National Instruments | NI-9250 | 2-Channel Analog Input | INT02580 | 03/22 |
| 2-Channel Analog Input | National Instruments | NI-9250 | 2-Channel Analog Input | INT02581 | 03/22 |
| 2-Channel Analog Input | National Instruments | NI-9250 | 2-Channel Analog Input | INT02581 | 03/22 |
| 2-Channel Analog Input | National Instruments | NI-9250 | 2-Channel Analog Input | INT02583 | 03/22 |
| 2-Channel Analog Input | National Instruments | NI-9250 | 2-Channel Analog Input | INT02584 | 03/22 |
| 2-Channel Analog Input | National Instruments | NI-9250 | 2-Channel Analog Input | INT02585 | 03/22 |
| Source Room Microphone | National Instruments | 378C20 | Microphone and Preamplifier | INT02910 | 02/22 |
| Source Room Microphone | PCB Piezotronics | 378C20 | Microphone and Preamplifier | INT02911 | 02/22 |
| Source Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | 64340 | 10/22 |
| Source Room Microphone | PCB Piezotronics | 378C20 | Microphone and Preamplifier | INT02427 | 02/22 |
| Source Room Microphone | PCB Piezotronics | 378C20 | Microphone and Preamplifier | INT01089 | 02/22 |
| Receive Room Microphone | PCB piezotronics | 378C20 | Microphone and Preamplifier | INT02912 | 02/22 |
| Receive Room Microphone | PBC Piezotronics | 378B20 | Microphone and Preamplifier | 64902 | 10/22 |
| Receive Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | 64903 | 08/22 |
| Receive Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | 64910 | 02/22 |
| Receive Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | 64911 | 10/22 |
| Receive Room Environmental Indicator | Comet | T7510 | Receive Room | 64915 | 02/22 |
| Source Room Environmental Indicator | Comet | T7510 | Source Room | 64914 | 03/22 |
| Microphone Calibrator | Norsonic | 1251 | Acoustical Calibrator | Y002919 | 04/22 |

**- Note: The calibration frequency for this equipment is every two years per the manufacturer's recommendation.*

**TEST CHAMBER**

| | VOLUME | DESCRIPTION |
|---|---|---|
| **RECEIVE ROOM** | 234 $m^3$ | Rotating vane and stationary diffusers<br>Temperature and humidity controlled<br>Isolation pads under the floor |
| **SOURCE ROOM** | 207 $m^3$ | Stationary diffusers only<br>Temperature and humidity controlled |

| | MAXIMUM SIZE | DESCRIPTION |
|---|---|---|
| **TL TEST OPENING** | 4.27 m wide by 3.05 m high | Vibration break between source and receive rooms |

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## SECTION 6
## LIST OF OFFICIAL OBSERVERS

| NAME | COMPANY |
|---|---|
| Yoav Ben-Shimon | Windloch, LLC |
| Cody L. French | Intertek B&C |

## SECTION 7
## TEST PROCEDURE

The sensitivity of the microphones was checked before measurements were conducted.

The transmission loss values were obtained for a single direction of measurement.

Two background noise sound pressure level and five sound absorption measurements were conducted at each of five microphone positions.

Two sound pressure level measurements were made simultaneously in receive and source rooms at each of five microphone positions.

The air temperature and relative humidity conditions were monitored and recorded during all measurements.

Data for flanking limit tests, repeatability measurements, and reference specimen tests are available upon request.

The specimen was returned per the client's request.

## SECTION 8
## ACOUSTICAL TEST CALCULATIONS

Transmission loss (TL) at each 1/3 octave frequency is the average source room sound pressure level minus the average receive room sound pressure level, plus, 10 times the log of the specimen area divided by the sound absorption of the receive room with the sample in place.

**STC Rating**
To obtain the Sound Transmission Class (STC), read the TL of the contour curve at 500 Hz. The sum of the deficiencies below the contour curve must not exceed 32. The maximum deficiency at any one frequency must not exceed 8.

**OITC Rating**
The Outdoor-Indoor Transmission Class (OITC) is calculated by subtracting the logarithmic summation of the TL values from the logarithmic summation of the A-weighted transportation noise spectrum stated in ASTM E1332.

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## SECTION 9
### SPECIMEN DESCRIPTION

| | FRAME |
|---|---|
| **SIZE** | 47-3/8" by 59-1/8" |
| **THICKNESS** | 5-1/8" |
| CORNERS | Mitered |
| FASTENERS | Screws |
| SEAL METHOD | Sealant |
| **MATERIAL** | Aluminum |
| REINFORCEMENT | N/A |
| THERMAL BREAK MATERIAL | Insulbar |
| **DAYLIGHT OPENING SIZE** | 44-1/8" by 56-1/4" |

**OPTION P5109.01G**

| | |
|---|---|
| **MEASURED OVERALL INSULATION GLASS UNIT THICKNESS** | 1.228" |
| **SPACER TYPE** | Aluminum |

| | EXTERIOR SHEET | GAP | INTERIOR SHEET |
|---|---|---|---|
| **MEASURED THICKNESS** | 0.226" | 0.779" | 0.223" |
| **MATERIAL** | Tempered | Air* | Tempered |
| **LAMINATE MATERIAL** | N/A | N/A | N/A |

**OPTION P5109.01H**

| | |
|---|---|
| **MEASURED OVERALL INSULATION GLASS UNIT THICKNESS** | 1.385" |
| **SPACER TYPE** | Aluminum |

| | EXTERIOR SHEET | GAP | INTERIOR SHEET |
|---|---|---|---|
| **MEASURED THICKNESS** | 0.225" | 0.839" | 0.321" |
| **MATERIAL** | Tempered | Air* | Tempered |
| **LAMINATE MATERIAL** | N/A | N/A | N/A |

**OPTION P5109.01J**

| | |
|---|---|
| **MEASURED OVERALL INSULATION GLASS UNIT THICKNESS** | 1.584" |
| **SPACER TYPE** | Aluminum |

| | EXTERIOR SHEET | GAP | INTERIOR SHEET |
|---|---|---|---|
| **MEASURED THICKNESS** | 0..226" | 0.795" | 0.563" |
| **MATERIAL** | Tempered | Air* | Laminated |
| **LAMINATE MATERIAL** | N/A | N/A | N/A |

** - Stated per Client/Manufacturer, N/A-Not Applicable*

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| | |
|---|---|
| **GLAZING METHOD** | Interior |
| **GLAZING MATERIAL** | EPDM |
| **GLAZING BEAD MATERIAL** | Aluminum |

| | **TYPE** | **QUANTITY** | **LOCATION** |
|---|---|---|---|
| **WEATHERSTRIP** | No weatherstrip | | |
| **HARDWARE** | No hardware | | |
| **DRAINAGE** | No drainage | | |

| **OPTION** | **TOTAL WEIGHT** (lbs) | **AVERAGE WEIGHT** (lbs/ft$^2$) |
|---|---|---|
| P5109.01G | 142 | 7.30 |
| P5109.01H | 162 | 8.33 |
| P5109.01J | 199 | 10.23 |

Photographs are included in Section 11.

The client did not supply a report drawing of the test specimen.

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## TEST REPORT FOR WINDLOCH, LLC

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## SECTION 10

## TEST RESULTS

### P5109.01G DATA

| | | | | | |
|---|---|---|---|---|---|
| **SPECIMEN AREA** | 1.81 m² | **RECEIVE TEMP.** | 24.1 °C | **SOURCE TEMP.** | 24.4 °C |
| **TECHNICIAN** | Cody L. Fren | **RECEIVE HUMIDITY** | 45% | **SOURCE HUMIDITY** | 47% |

| FREQ (Hz) | BACKGROUND SPL (dB) | ABSORPTION (m²) | SOURCE SPL (dB) | RECEIVE SPL (dB) | SPECIMEN TL (dB) | 95% SAMPLING LIMIT | NUMBER OF DEFICIENCIES |
|---|---|---|---|---|---|---|---|
| 80 | 35.9 | 5.8 | 105 | 83 | 17 | 2.51 | - |
| 100 | 28.9 | 6.4 | 107 | 75 | 28 | 2.06 | - |
| 125 | 31.3 | 5.8 | 107 | 82 | 20 | 1.31 | 0 |
| 160 | 38.2 | 5.5 | 108 | 84 | 19 | 1.05 | 4 |
| 200 | 35.8 | 5.9 | 108 | 84 | 19 | 0.80 | 7 |
| 250 | 29.8 | 6.1 | 105 | 75 | 25 | 0.99 | 4 |
| 315 | 25.0 | 5.7 | 104 | 69 | 30 | 0.60 | 2 |
| 400 | 22.3 | 5.7 | 104 | 67 | 32 | 0.42 | 3 |
| 500 | 18.1 | 5.7 | 104 | 67 | 33 | 0.35 | 3 |
| 630 | 16.3 | 5.9 | 103 | 63 | 35 | 0.34 | 2 |
| 800 | 14.6 | 6.3 | 103 | 57 | 40 | 0.24 | 0 |
| 1000 | 10.2 | 6.4 | 104 | 57 | 42 | 0.34 | 0 |
| 1250 | 8.6 | 6.8 | 102 | 52 | 44 | 0.49 | 0 |
| 1600 | 6.7 | 7.3 | 100 | 50 | 43 | 0.42 | 0 |
| 2000 | 5.9 | 7.8 | 102 | 58 | 37 | 0.26 | 3 |
| 2500 | 6.0 | 9.0 | 102 | 57 | 38 | 0.23 | 2 |
| 3150 | 6.5 | 10.8 | 101 | 49 | 44 | 0.23 | 0 |
| 4000 | 7.3 | 13.3 | 99 | 41 | 49 | 0.27 | 0 |
| 5000 | 8.1 | 16.9 | 99 | 35 | 54 | 0.47 | - |
| **STC RATING** | | 36 | *(Sound Transmission Class)* | | | | |
| **DEFICIENCIES** | | 30 | *(Sum of Deficiencies)* | | | | |
| **OITC RATING** | | 27 | *(Outdoor-Indoor Transmission Class)* | | | | |

***Notes:*** *1) Receive Room levels less than 5 dB above the Background levels are red.*
*2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.*
*3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied*

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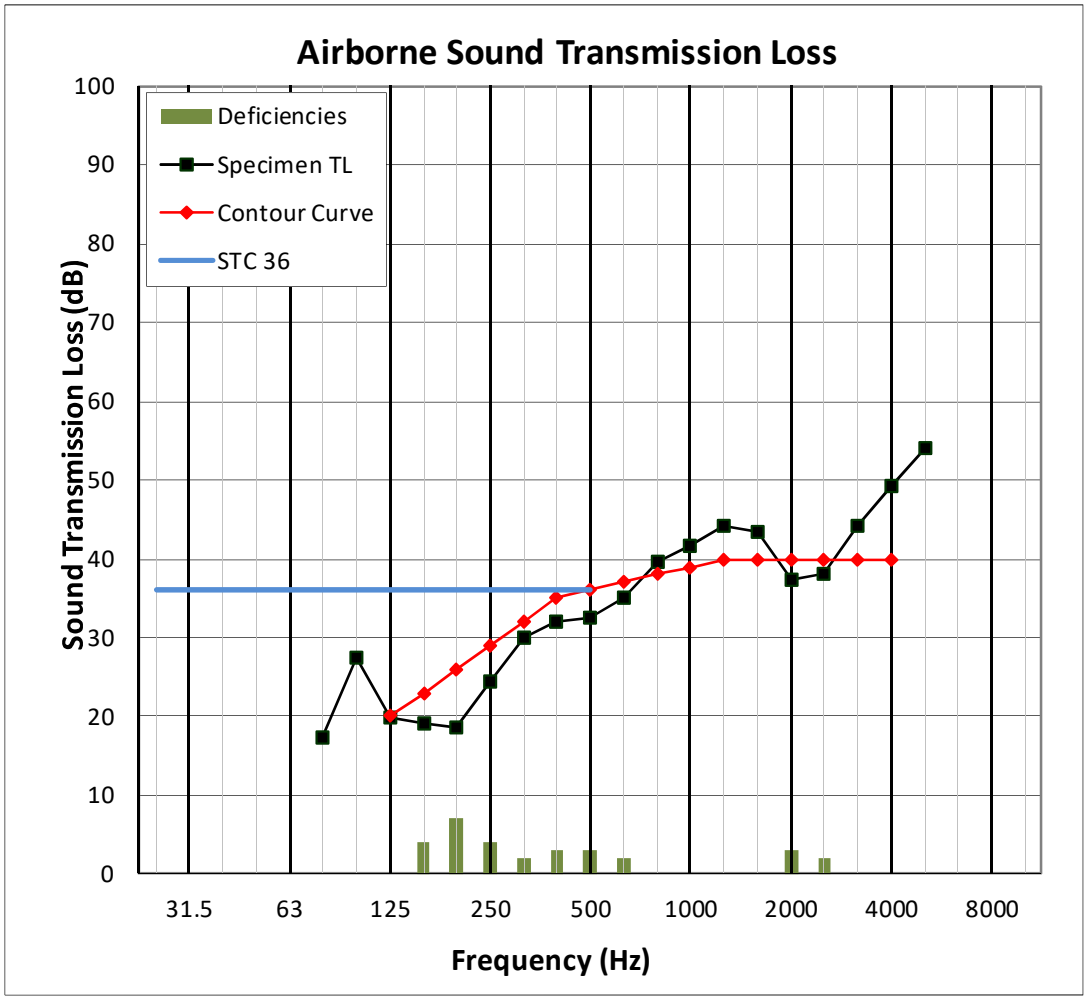
**P5109.01G GRAPH**



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## TEST REPORT FOR WINDLOCH, LLC

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Date: 01/06/23

### P5109.01H DATA

| | | | | | |
|---|---|---|---|---|---|
| **SPECIMEN AREA** | 1.81 m² | **RECEIVE TEMP.** | 22.8 °C | **SOURCE TEMP.** | 23.3 °C |
| **TECHNICIAN** | Cody L. Fren | **RECEIVE HUMIDITY** | 48% | **SOURCE HUMIDITY** | 48% |

| FREQ (Hz) | BACKGROUND SPL (dB) | ABSORPTION (m²) | SOURCE SPL (dB) | RECEIVE SPL (dB) | SPECIMEN TL (dB) | 95% SAMPLING LIMIT | NUMBER OF DEFICIENCIES |
|---|---|---|---|---|---|---|---|
| 80 | 35.5 | 5.6 | 106 | 82 | 19 | 3.14 | - |
| 100 | 28.1 | 5.8 | 106 | 73 | 29 | 1.62 | - |
| 125 | 29.8 | 5.5 | 107 | 80 | 22 | 1.23 | 0 |
| 160 | 38.8 | 4.9 | 108 | 82 | 22 | 1.39 | 3 |
| 200 | 37.5 | 5.7 | 107 | 83 | 20 | 0.70 | 8 |
| 250 | 29.0 | 6.3 | 105 | 68 | 31 | 0.68 | 0 |
| 315 | 23.5 | 5.9 | 104 | 63 | 36 | 0.61 | 0 |
| 400 | 20.9 | 5.7 | 104 | 62 | 37 | 0.43 | 0 |
| 500 | 16.5 | 5.7 | 104 | 61 | 38 | 0.35 | 0 |
| 630 | 16.1 | 5.8 | 103 | 59 | 39 | 0.34 | 0 |
| 800 | 14.0 | 6.3 | 103 | 56 | 42 | 0.24 | 0 |
| 1000 | 9.3 | 6.4 | 104 | 56 | 43 | 0.32 | 0 |
| 1250 | 7.8 | 6.9 | 102 | 54 | 42 | 0.52 | 0 |
| 1600 | 6.0 | 7.3 | 100 | 53 | 40 | 0.49 | 2 |
| 2000 | 5.7 | 7.7 | 102 | 58 | 38 | 0.22 | 4 |
| 2500 | 6.0 | 8.9 | 102 | 53 | 43 | 0.26 | 0 |
| 3150 | 7.0 | 10.6 | 101 | 43 | 50 | 0.26 | 0 |
| 4000 | 8.0 | 13.3 | 99 | 36 | 54 | 0.30 | 0 |
| 5000 | 9.3 | 16.5 | 99 | 32 | 58 | 0.53 | - |
| **STC RATING** | | 38 | *(Sound Transmission Class)* | | | | |
| **DEFICIENCIES** | | 17 | *(Sum of Deficiencies)* | | | | |
| **OITC RATING** | | 30 | *(Outdoor-Indoor Transmission Class)* | | | | |

***Notes:*** *1) Receive Room levels less than 5 dB above the Background levels are red.*
*2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.*
*3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied*

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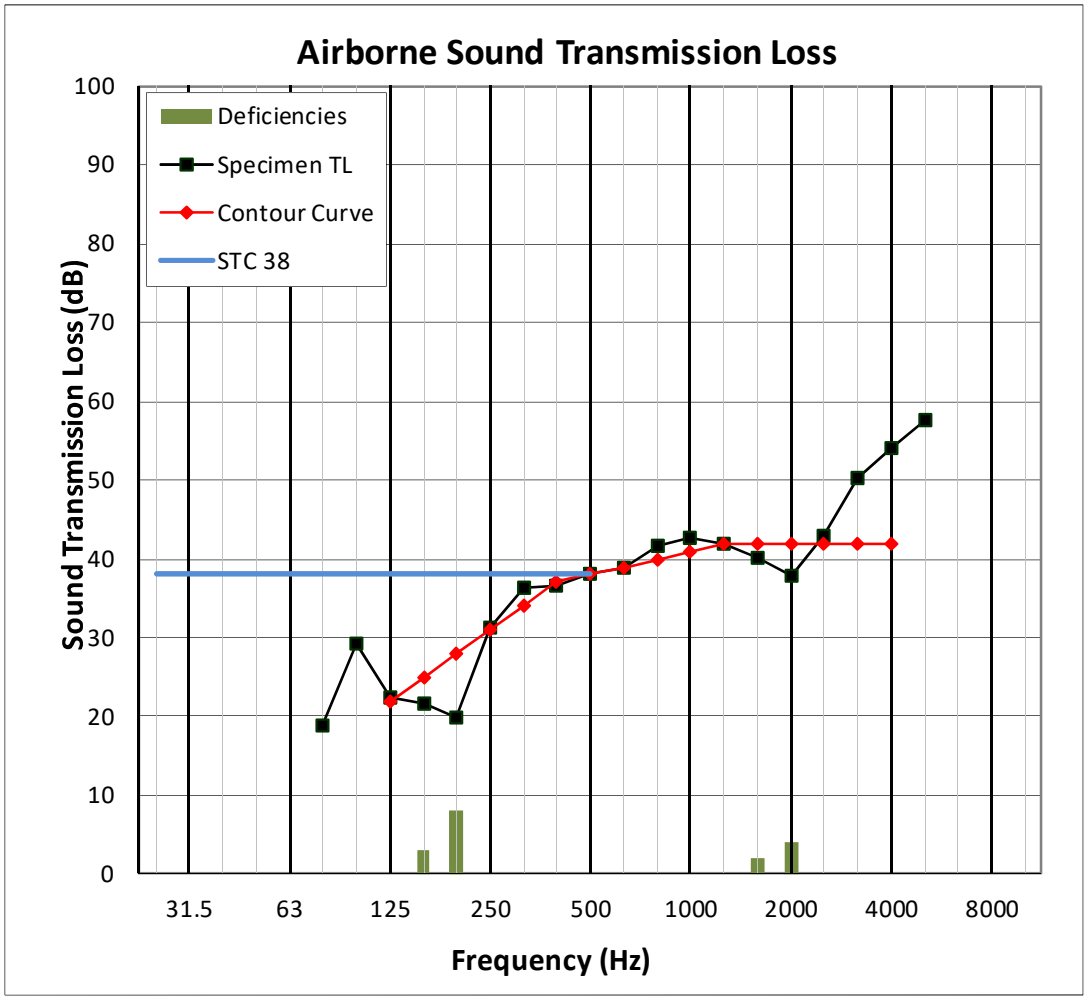
**P5109.01H GRAPH**



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## TEST REPORT FOR WINDLOCH, LLC

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### P5109.01J DATA

| | | | | | |
|---|---|---|---|---|---|
| **SPECIMEN AREA** | 1.81 m² | **RECEIVE TEMP.** | 22.5 °C | **SOURCE TEMP.** | 23.3 °C |
| **TECHNICIAN** | Cody L. Fren | **RECEIVE HUMIDITY** | 51% | **SOURCE HUMIDITY** | 51% |

| FREQ (Hz) | BACKGROUND SPL (dB) | ABSORPTION (m²) | SOURCE SPL (dB) | RECEIVE SPL (dB) | SPECIMEN TL (dB) | 95% SAMPLING LIMIT | NUMBER OF DEFICIENCIES |
|---|---|---|---|---|---|---|---|
| 80 | 35.1 | 5.8 | 106 | 82 | 19 | 3.00 | - |
| 100 | 29.0 | 6.0 | 106 | 72 | 31 | 1.59 | - |
| 125 | 31.2 | 5.7 | 107 | 79 | 23 | 1.29 | 3 |
| 160 | 38.9 | 4.9 | 108 | 78 | 26 | 1.49 | 3 |
| 200 | 37.8 | 5.5 | 108 | 76 | 27 | 0.82 | 5 |
| 250 | 31.6 | 6.1 | 105 | 66 | 33 | 0.69 | 2 |
| 315 | 26.5 | 5.8 | 104 | 60 | 39 | 0.56 | 0 |
| 400 | 23.0 | 5.6 | 104 | 59 | 40 | 0.41 | 1 |
| 500 | 18.0 | 5.7 | 104 | 60 | 39 | 0.35 | 3 |
| 630 | 17.0 | 5.9 | 103 | 56 | 42 | 0.38 | 1 |
| 800 | 15.4 | 6.2 | 103 | 51 | 46 | 0.32 | 0 |
| 1000 | 10.4 | 6.4 | 104 | 51 | 47 | 0.38 | 0 |
| 1250 | 8.7 | 6.8 | 102 | 47 | 49 | 0.41 | 0 |
| 1600 | 6.5 | 7.3 | 100 | 45 | 49 | 0.45 | 0 |
| 2000 | 5.8 | 7.8 | 102 | 54 | 41 | 0.26 | 5 |
| 2500 | 6.0 | 8.8 | 103 | 54 | 41 | 0.24 | 5 |
| 3150 | 6.4 | 10.6 | 101 | 43 | 50 | 0.23 | 0 |
| 4000 | 7.2 | 13.1 | 99 | 36 | 55 | 0.35 | 0 |
| 5000 | 8.0 | 16.3 | 99 | 31 | 59 | 0.48 | - |
| **STC RATING** | | 42 | *(Sound Transmission Class)* | | | | |
| **DEFICIENCIES** | | 28 | *(Sum of Deficiencies)* | | | | |
| **OITC RATING** | | 33 | *(Outdoor-Indoor Transmission Class)* | | | | |

***Notes:*** *1) Receive Room levels less than 5 dB above the Background levels are red.*
*2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.*
*3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied*

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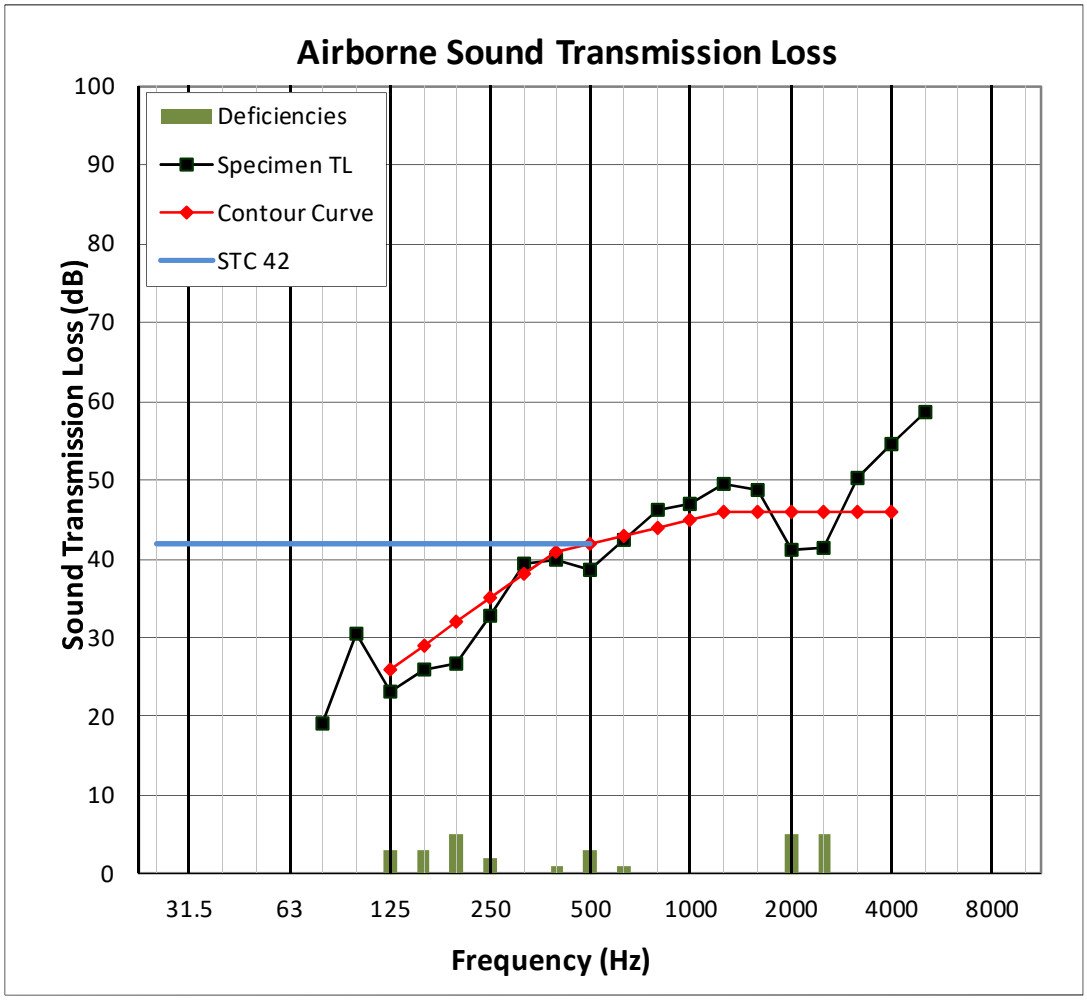
**P5109.01J GRAPH**



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## SECTION 11
## PHOTOGRAPHS

**Photo No. 1**
**Receive Room View of Installed Test Specimen**

**Photo No. 2**
**Source Room View of Installed Test Specimen**

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## SECTION 12
## REVISION LOG

| REVISION # | DATE | PAGES | REVISION |
|---|---|---|---|
| 0 | 01/06/23 | N/A | Original Report Issue |