

# **THERMA-TRU CORPORATION ACOUSTICAL PERFORMANCE TEST REPORT**

**SCOPE OF WORK**

ASTM E90 SOUND TRANSMISSION LOSS TESTING ON A  
S830010STC-000218-9494, SIDE-HINGED SINGLE DOOR SYSTEM WITH FULL LITE

**REPORT NUMBER**

I9172.01-113-11-R1

**TEST DATE**

12/04/18

**ISSUE DATE**

01/03/19

**REVISION 1 DATE**

04/12/22

**PAGES**

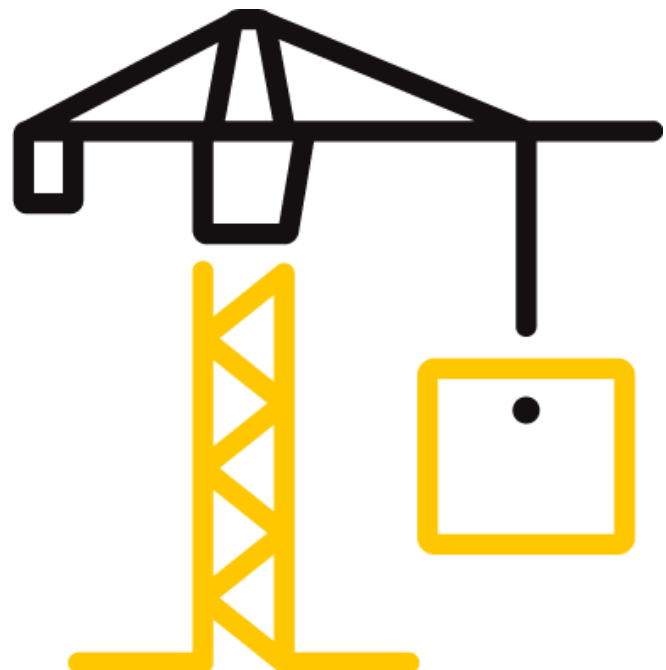
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**DOCUMENT CONTROL NUMBER**

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## TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: I9172.01-113-11-R1

Revision 1 Date: 04/12/22 Date: 01/03/19

### REPORT ISSUED TO

#### THERMA-TRU CORPORATION

118 Industrial Drive  
Edgerton, Ohio 43517

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by Therma-Tru Corporation to conduct a sound transmission loss test. Results obtained are tested values and were secured by using the designated test method(s). 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.

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Sean G. Close	<b>REVIEWED BY:</b>	Kurt A. Golden
<b>TITLE:</b>	Technician Team Leader Acoustical Testing	<b>TITLE:</b>	Senior Project Lead Acoustical Testing
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	04/12/22	<b>DATE:</b>	04/12/22

SGC:jmcs

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**SECTION 2**

**SUMMARY OF TEST RESULTS**

<b>SERIES/MODEL</b>	S830010STC-000218-9494
<b>TYPE</b>	Side-hinged single door system

**OPTION I9172.01A**

<b>GLAZING (Nominal Dimensions)</b>	1" IG (1/8" tempered, 3/4" air space, 1/8" tempered) Sealed with duct seal on both sides
<b>TEST CONDITION</b>	Inoperable
<b>DATA FILE NO.</b>	I9172.01A
<b>STC</b>	34
<b>OITC</b>	27

**OPTION I9172.01A1**

<b>GLAZING (Nominal Dimensions)</b>	1" IG (1/8" tempered, 3/4" air space, 1/8" tempered)
<b>TEST CONDITION</b>	Operable
<b>DATA FILE NO.</b>	I9172.01A1
<b>STC</b>	31
<b>OITC</b>	26

**OPTION I9172.01B**

<b>GLAZING (Nominal Dimensions)</b>	1/2" IG (1/8" tempered, 1/4" air space, 1/8" tempered), Sealed with duct seal on both sides
<b>TEST CONDITION</b>	Inoperable
<b>DATA FILE NO.</b>	I9172.01B
<b>STC</b>	32
<b>OITC</b>	28

**OPTION I9172.01B1**

<b>GLAZING (Nominal Dimensions)</b>	1/2" IG (1/8" tempered, 1/4" air space, 1/8" tempered)
<b>TEST CONDITION</b>	Operable
<b>DATA FILE NO.</b>	I9172.01B1
<b>STC</b>	30
<b>OITC</b>	27

**COMMENTS**

Whether the tested door system utilizes wood or composite stile edges, the ratings would remain unchanged.

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### 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 E413-16**, *Classification for Rating Sound Insulation*

**ASTM E1332-16**, *Standard Classification for Rating Outdoor-Indoor Sound Attenuation*

**ASTM E2235-04 (2012)**, *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods*

### 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
Data Acquisition Card	National Instruments	PXI-4462	Data Acquisition Card	65125*	05/18
Data Acquisition Card	National Instruments	PXI-4462	Data Acquisition Card	65126*	05/18
Data Acquisition Card	National Instruments	PXI-4462	Data Acquisition Card	63763-3*	04/18
Source Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64340	09/18
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	64903	05/18
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	65106	03/18
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	64905	03/18
Source Room Microphone	PCB piezotronics	378C20	Microphone and Preamplifier	64906	03/18
Receive Room Microphone	PBC Piezotronics	378B20	Microphone and Preamplifier	65968	01/18
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	65586	02/18
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	65969	04/18
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	INT00652	12/18
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64911	01/18
Receive Room Environmental Indicator	Comet	T7510	Receive Room	INT00603	03/18
Source Room Environmental Indicator	Comet	T7510	Source Room	64914	03/18
Microphone Calibrator	Norsonic	1251	Acoustical Calibrator	Y002919	04/18

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

### TEST CHAMBER

	VOLUME	DESCRIPTION
RECEIVE ROOM	234 m <sup>3</sup>	Rotating vane and stationary diffusers Temperature and humidity controlled Isolation pads under the floor
SOURCE ROOM	207 m <sup>3</sup>	Stationary diffusers only 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
Sean G. Close	Intertek B&C
Jear N. Mutunda	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.

Intertek B&C will store samples of test specimens for four years.

### 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**

	<b>FRAME</b>
<b>SIZE</b>	37-9/16" by 98"
<b>THICKNESS</b>	4-5/8"
<b>CORNERS</b>	Butted
<b>FASTENERS</b>	Screws
<b>SEAL METHOD</b>	Sealant
<b>MATERIAL</b>	Aluminum
<b>REINFORCEMENT</b>	N/A
<b>THERMAL BREAK MATERIAL</b>	N/A
<b>SPECIMEN WEIGHT (lbs)</b>	24

**COMMENTS**

The leaf was 36" by 95-3/8" by 1-3/4" thick. The daylight opening size was 21-1/4" by 79".

<b>LEAF LAYERS (OUTSIDE TO INSIDE)</b>	<b>LAYER DESCRIPTION (MATERIAL AND THICKNESS)</b>
1	0.091" Fiberglass skin
2	1.551" Wood core
3	0.091" Fiberglass skin

*N/A-Not Applicable*

**COMMENTS**

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### OPTIONS I9172.01A and I9172.01A1

<b>MEASURED OVERALL INSULATION GLASS UNIT THICKNESS</b>	0.985"
<b>SPACER TYPE</b>	Butyl

	<b>EXTERIOR SHEET</b>	<b>GAP</b>	<b>INTERIOR SHEET</b>
<b>MEASURED THICKNESS</b>	0.121"	0.748"	0.116"
<b>MUNTIN PATTERN</b>	N/A	N/A	N/A
<b>MATERIAL</b>	Tempered	Air*	Tempered
<b>LAMINATE MATERIAL</b>	N/A	N/A	N/A
<b>GLAZING METHOD</b>	Interior		
<b>GLAZING MATERIAL</b>	Foam tape		
<b>GLAZING BEAD MATERIAL</b>	Vinyl		

### OPTIONS I9172.01B and I9172.01B1

<b>MEASURED OVERALL INSULATION GLASS UNIT THICKNESS</b>	0.449"
<b>SPACER TYPE</b>	Butyl

	<b>EXTERIOR SHEET</b>	<b>GAP</b>	<b>INTERIOR SHEET</b>
<b>MEASURED THICKNESS</b>	0.122"	0.213"	0.114"
<b>MUNTIN PATTERN</b>	N/A	N/A	N/A
<b>MATERIAL</b>	Tempered	Air*	Tempered
<b>LAMINATE MATERIAL</b>	N/A	N/A	N/A
<b>GLAZING METHOD</b>	Interior		
<b>GLAZING MATERIAL</b>	Foam tape		
<b>GLAZING BEAD MATERIAL</b>	Vinyl		

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



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	TYPE	QUANTITY	LOCATION
<b>WEATHERSTRIP</b>	1" Kerf mounted foam-filled leaf gasket	1 Row	Head and jambs
	1-1/8" Foam pad	2	Corner of each jamb at sill
	7/16" Diameter hollow bulb gasket with 1/4" quadruple fin sweep	1	Bottom rail
<b>HARDWARE</b>	Hinge	3	Hinge stile
	Lock set	1	Lock stile
	Dead bolt	1	Lock stile
<b>DRAINAGE</b>	Slope sill	1	Sill

OPTION	TOTAL WEIGHT (lbs)	AVERAGE WEIGHT (lbs/ft <sup>2</sup> )
A	143	5.60
B	144	5.64

Photographs are included in Section 11.

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

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### SECTION 10

#### TEST RESULTS

#### I9172.01A DATA

<b>SPECIMEN AREA</b>	2.37 m <sup>2</sup>	<b>RECEIVE TEMP.</b>	20.9 °C	<b>SOURCE TEMP</b>	21.2 °C
<b>TECHNICIAN</b>	Sean G. Clos	<b>RECEIVE HUMIDITY</b>	48%	<b>SOURCE HUMIDITY</b>	50%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m <sup>2</sup> )	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	35.3	5.1	104	79	21	2.46	-
100	33.2	5.1	104	80	21	1.67	-
125	35.5	6.2	105	80	21	1.23	0
160	39.7	5.5	107	84	20	0.87	1
200	38.2	5.1	106	84	18	0.66	6
250	31.0	5.5	103	75	24	0.43	3
315	25.5	5.9	103	74	24	0.51	6
400	21.2	6.3	102	70	28	0.72	5
500	16.9	6.4	102	66	32	0.75	2
630	18.2	6.2	101	61	36	0.68	0
800	14.9	6.4	100	59	37	0.28	0
1000	10.9	6.6	101	60	37	0.26	0
1250	8.7	7.1	100	57	39	0.31	0
1600	7.4	7.5	100	55	39	0.21	0
2000	7.3	7.9	100	56	39	0.15	0
2500	8.1	8.9	100	55	40	0.20	0
3150	9.3	10.4	99	54	39	0.33	0
4000	9.2	13.0	97	57	33	0.20	5
5000	10.4	16.5	98	53	37	0.31	-
<b>STC RATING</b>	34 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	28 (Sum of Deficiencies)						
<b>OITC RATING</b>	27 (Outdoor-Indoor Transmission Class)						

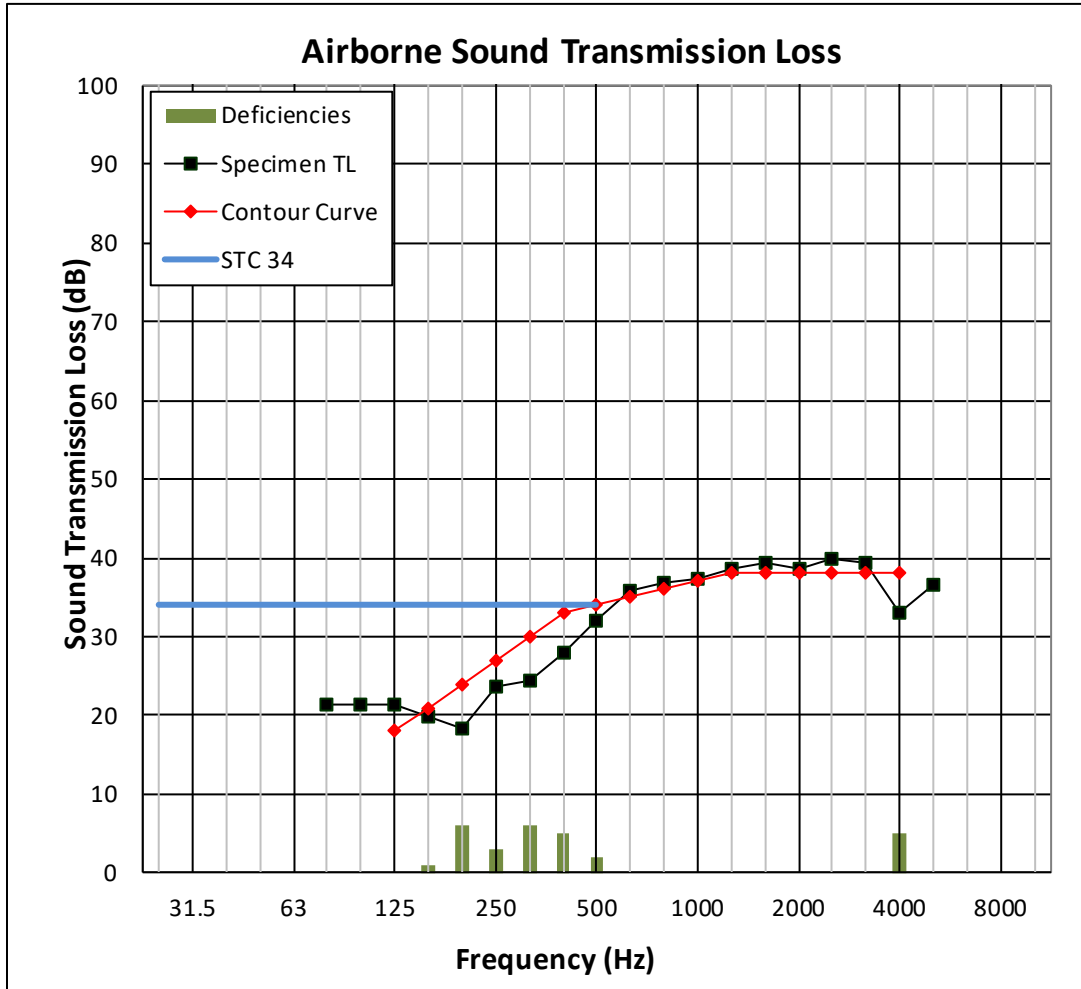
- Notes:**
- 1) Receive Room levels less than 5 dB above the Background levels are red.
  - 2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
  - 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

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### I9172.01A GRAPH



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### I9172.01A1 DATA

<b>SPECIMEN AREA</b>	2.37 m <sup>2</sup>	<b>RECEIVE TEMP.</b>	21.0 °C	<b>SOURCE TEMP</b>	21.3 °C
<b>TECHNICIAN</b>	Sean G. Clos	<b>RECEIVE HUMIDITY</b>	49%	<b>SOURCE HUMIDIT</b>	50%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m <sup>2</sup> )	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	34.6	5.4	104	80	21	2.11	-
100	33.3	5.9	104	79	21	1.69	-
125	34.6	6.0	105	80	21	1.15	0
160	38.7	5.3	107	84	19	0.84	0
200	37.5	5.2	106	84	18	0.68	3
250	30.5	5.7	102	76	23	0.33	1
315	24.0	6.0	103	75	24	0.46	3
400	20.8	6.1	102	70	27	0.67	3
500	16.0	6.6	102	67	30	0.78	1
630	17.8	6.3	101	64	33	0.68	0
800	14.4	6.4	100	64	31	0.31	2
1000	10.6	6.8	101	67	30	0.34	4
1250	8.5	7.2	100	63	32	0.36	3
1600	7.3	7.6	100	61	33	0.21	2
2000	7.2	8.0	100	60	34	0.14	1
2500	7.6	9.1	100	59	35	0.17	0
3150	9.8	10.5	99	56	37	0.28	0
4000	10.6	13.0	97	57	32	0.26	3
5000	10.5	16.5	97	55	34	0.29	-
<b>STC RATING</b>	31 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	26 (Sum of Deficiencies)						
<b>OITC RATING</b>	26 (Outdoor-Indoor Transmission Class)						

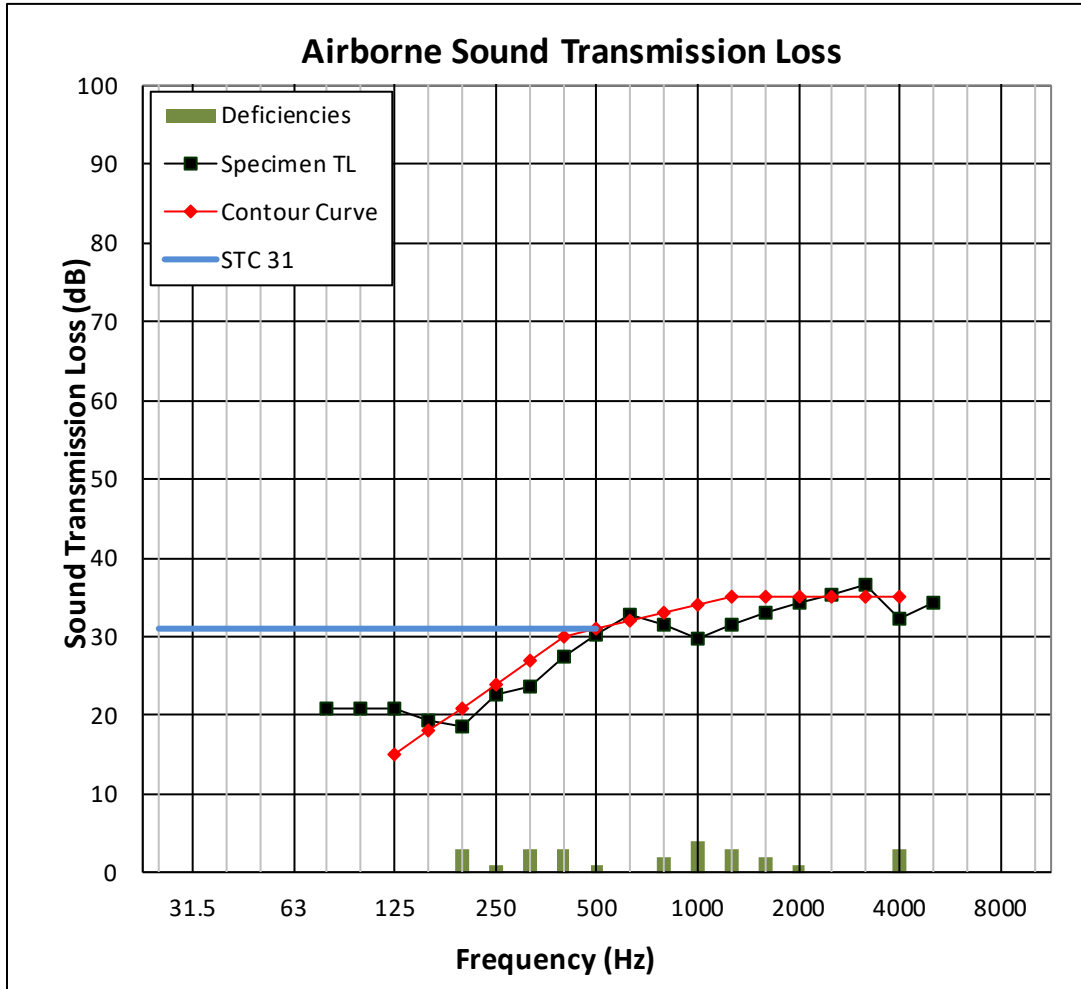
- Notes:**
- 1) Receive Room levels less than 5 dB above the Background levels are red.
  - 2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
  - 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

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### I9172.01A1 GRAPH



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### I9172.01B DATA

<b>SPECIMEN AREA</b>	2.37 m <sup>2</sup>	<b>RECEIVE TEMP.</b>	20.7 °C	<b>SOURCE TEMP</b>	20.8 °C
<b>TECHNICIAN</b>	Sean G. Clos	<b>RECEIVE HUMIDITY</b>	47%	<b>SOURCE HUMIDIT</b>	48%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m <sup>2</sup> )	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	36.1	4.7	104	79	22	2.05	-
100	33.8	5.2	104	78	23	1.61	-
125	37.8	6.1	105	78	23	1.29	0
160	39.9	5.3	107	80	25	0.93	0
200	38.5	5.0	106	80	24	0.53	0
250	31.7	5.6	103	73	26	0.41	0
315	25.6	5.8	103	72	28	0.50	0
400	21.9	6.2	102	74	24	0.72	7
500	17.5	6.5	102	74	24	0.77	8
630	18.8	6.3	101	68	29	0.72	4
800	15.6	6.5	100	66	29	0.30	5
1000	11.5	6.5	101	64	33	0.31	2
1250	8.9	7.2	100	59	36	0.32	0
1600	7.4	7.4	100	57	37	0.19	0
2000	7.3	7.9	100	58	37	0.15	0
2500	7.7	8.9	100	57	38	0.18	0
3150	10.5	10.4	99	56	37	0.27	0
4000	9.4	13.1	97	57	32	0.17	4
5000	10.3	16.7	97	52	36	0.28	-
<b>STC RATING</b>	32 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	30 (Sum of Deficiencies)						
<b>OITC RATING</b>	28 (Outdoor-Indoor Transmission Class)						

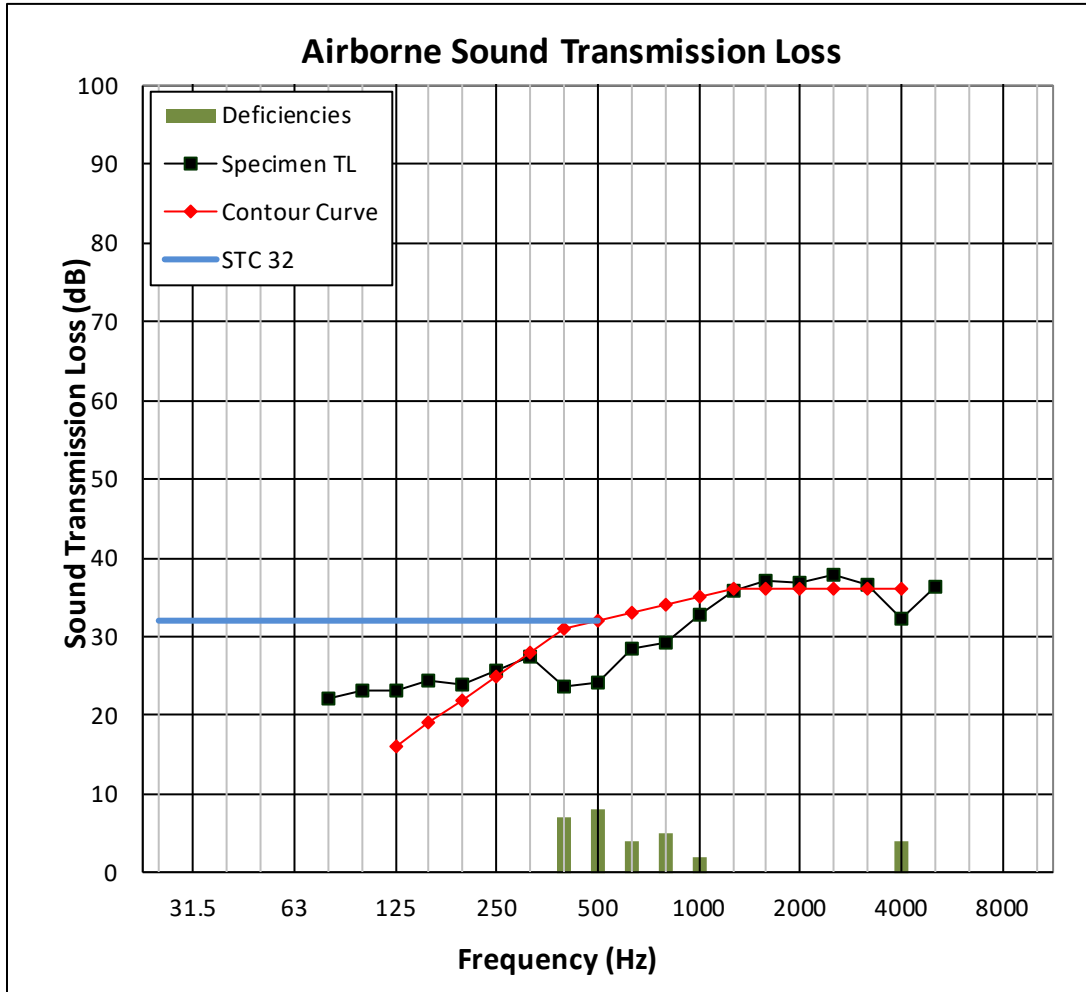
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  - 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

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### I9172.01B GRAPH



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### I9172.01B1 DATA

<b>SPECIMEN AREA</b>	2.37 m <sup>2</sup>	<b>RECEIVE TEMP.</b>	20.9 °C	<b>SOURCE TEMP</b>	21.0 °C
<b>TECHNICIAN</b>	Sean G. Clos	<b>RECEIVE HUMIDITY</b>	47%	<b>SOURCE HUMIDIT</b>	47%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m <sup>2</sup> )	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	39.7	5.0	103	79	22	2.06	-
100	36.3	5.6	104	78	22	1.74	-
125	37.6	6.3	105	78	22	1.23	0
160	40.5	5.5	107	80	24	0.93	0
200	38.9	5.0	106	79	24	0.61	0
250	32.7	5.6	103	74	25	0.43	0
315	26.2	6.0	103	72	26	0.44	0
400	23.1	6.2	102	75	23	0.69	6
500	19.0	6.5	102	74	24	0.75	6
630	19.7	6.3	101	69	28	0.69	3
800	16.6	6.5	100	68	28	0.34	4
1000	13.6	6.7	101	68	29	0.38	4
1250	10.9	7.3	100	64	31	0.33	3
1600	9.0	7.6	100	62	33	0.22	1
2000	8.5	8.1	100	60	34	0.16	0
2500	8.5	9.1	100	59	35	0.18	0
3150	10.0	10.7	99	57	35	0.30	0
4000	9.8	13.4	97	57	32	0.17	2
5000	10.6	17.2	97	53	35	0.27	-
<b>STC RATING</b>	30 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	29 (Sum of Deficiencies)						
<b>OITC RATING</b>	27 (Outdoor-Indoor Transmission Class)						

- Notes:**
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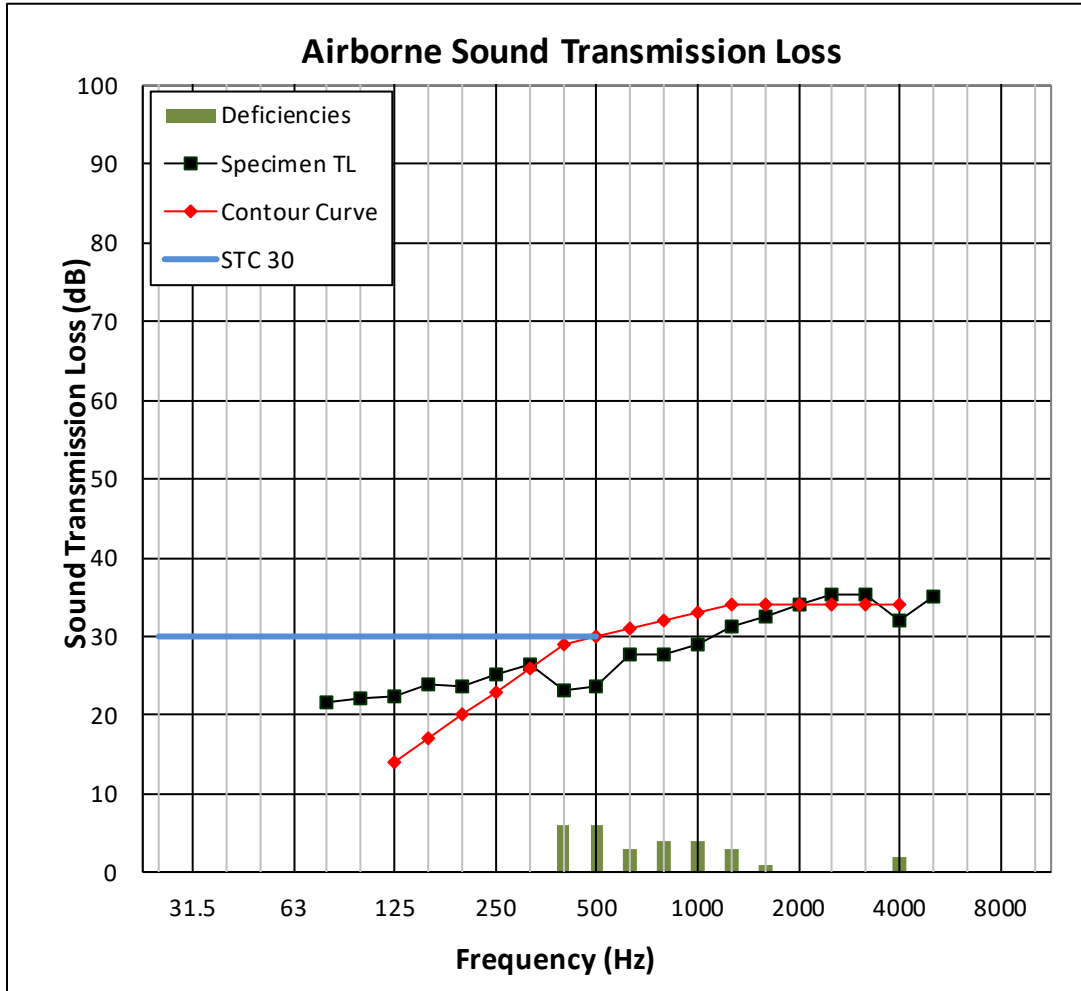


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### SECTION 11

#### PHOTOGRAPHS



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



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



Total Quality. Assured.

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## TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: I9172.01-113-11-R1

Revision 1 Date: 04/12/22 Date: 01/03/19

### SECTION 12

#### REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	01/03/19	N/A	Original Report Issue
1	04/12/22	3, 7	Added Comments