

# THERMA-TRU CORPORATION ACOUSTICAL PERFORMANCE TEST REPORT

**SCOPE OF WORK**

ASTM E90 SOUND TRANSMISSION LOSS TESTING ON A  
S730010STC-000218-9490, SIDE-HINGED SINGLE DOOR SYSTEM WITH FULL LITE

**REPORT NUMBER**

I9170.01-113-11-R1

**TEST DATE**

12/05/18

**ISSUE DATE**

12/19/18

**REVISION 1 DATE**

04/12/22

**PAGES**

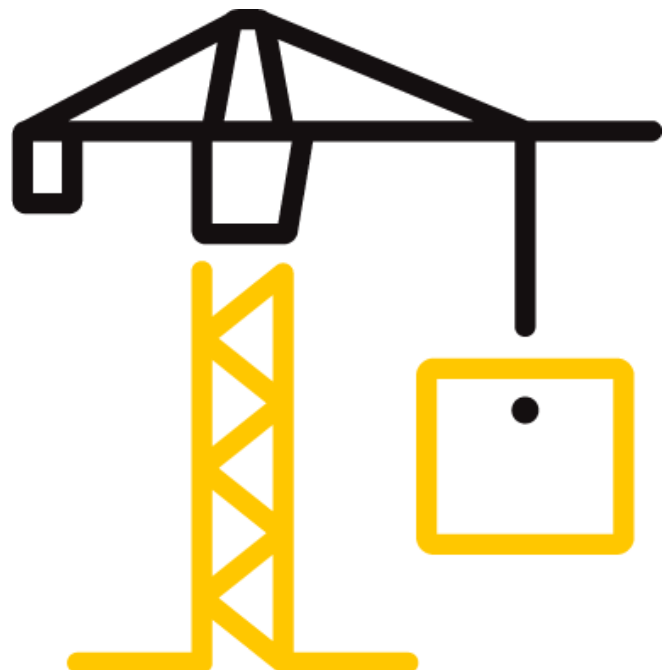
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## TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: I9170.01-113-11-R1

Revision 1 Date: 04/12/22 Date: 12/19/18

### 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>	S730010STC-000218-9490
<b>TYPE</b>	Side-hinged single door system

**OPTION I9170.01A**

<b>GLAZING (Nominal Dimensions)</b>	1" IG (1/8" tempered exterior, 1/2" air space, 3/8" laminated interior), Glass temperature 75°F Sealed with duct seal on both sides
<b>TEST CONDITION</b>	Inoperable
<b>DATA FILE NO.</b>	I9170.01A
<b>STC</b>	38
<b>OITC</b>	33

**OPTION I9170.01A2**

<b>GLAZING (Nominal Dimensions)</b>	1" IG (1/8" tempered exterior, 1/2" air space, 3/8" laminated interior), Glass temperature 75°F
<b>TEST CONDITION</b>	Operable
<b>DATA FILE NO.</b>	I9170.01A2
<b>STC</b>	35
<b>OITC</b>	31

**OPTION I9170.01B**

<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>	I9170.01B
<b>STC</b>	35
<b>OITC</b>	28

**OPTION I9170.01B3**

<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>	I9170.01B3
<b>STC</b>	32
<b>OITC</b>	28

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### OPTION I9170.01C

<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>	I9170.01C
<b>STC</b>	31
<b>OITC</b>	29

### OPTION I9170.01C1

<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>	I9170.01C1
<b>STC</b>	31
<b>OITC</b>	28

## 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*

### COMMENTS

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

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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
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 86"
<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>	22

**COMMENTS**

The leaf was 36" by 83-1/4" by 1-3/4" thick. The daylight opening size was 20-7/8" by 63".

<b>LEAF LAYERS (OUTSIDE TO INSIDE)</b>	<b>LAYER DESCRIPTION (MATERIAL AND THICKNESS)</b>
1	0.072" Fiberglass skin
2	1.572" Engineered lumber core
3	0.087" Fiberglass skin

*N/A-Not Applicable*

**COMMENTS**

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### I9170.01A and I9170.01A2

<b>MEASURED OVERALL INSULATION GLASS UNIT THICKNESS</b>	0.998"
<b>SPACER TYPE</b>	Butyl

	EXTERIOR SHEET	GAP	INTERIOR SHEET
<b>MEASURED THICKNESS</b>	0.122"	0.515"	0.151", 0.093", 0.117"
<b>MUNTIN PATTERN</b>	N/A	N/A	N/A
<b>MATERIAL</b>	Tempered	Air*	Laminated
<b>LAMINATE MATERIAL</b>	N/A	N/A	PVB
<b>GLAZING METHOD</b>	Interior		
<b>GLAZING MATERIAL</b>	Foam tape		
<b>GLAZING BEAD MATERIAL</b>	Vinyl		

### I9170.01B and I9170.01B3

<b>MEASURED OVERALL INSULATION GLASS UNIT THICKNESS</b>	1.001"
<b>SPACER TYPE</b>	Butyl

	EXTERIOR SHEET	GAP	INTERIOR SHEET
<b>MEASURED THICKNESS</b>	0.120"	0.761"	0.120"
<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		

### I9170.01C and I9170.01C1

<b>MEASURED OVERALL INSULATION GLASS UNIT THICKNESS</b>	0.507"
<b>SPACER TYPE</b>	Butyl

	EXTERIOR SHEET	GAP	INTERIOR SHEET
<b>MEASURED THICKNESS</b>	0.121"	0.270"	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		

\* - 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	148	6.59
B	128	5.71
C	127	5.66

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

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

##### I9170.01A DATA

<b>SPECIMEN AREA</b>	2.08 m <sup>2</sup>	<b>RECEIVE TEMP.</b>	22.9 °C	<b>SOURCE TEMP</b>	21.8 °C
<b>TECHNICIAN</b>	Kurt Golden	<b>RECEIVE HUMIDITY</b>	46%	<b>SOURCE HUMIDIT</b>	49%

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	39.0	6.0	103	72	27	2.04	-
100	39.6	5.9	105	73	29	1.92	-
125	38.2	6.3	105	71	29	1.35	0
160	40.6	5.5	107	75	28	0.83	0
200	36.7	5.0	106	77	26	1.30	2
250	35.6	5.4	102	70	29	0.66	2
315	31.3	5.7	102	68	30	0.25	4
400	27.4	5.9	102	64	33	0.54	4
500	25.0	6.3	102	60	37	0.56	1
630	22.3	6.0	101	59	38	0.38	1
800	20.5	6.3	100	57	38	0.27	2
1000	18.3	6.3	101	57	39	0.44	2
1250	17.1	6.9	100	54	41	0.45	1
1600	15.7	7.3	100	53	41	0.21	1
2000	12.5	7.6	100	53	41	0.24	1
2500	10.5	8.6	101	52	42	0.22	0
3150	10.0	10.2	99	50	42	0.26	0
4000	10.3	12.6	97	47	43	0.21	0
5000	10.4	16.0	97	44	45	0.28	-
<b>STC RATING</b>	38 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	21 (Sum of Deficiencies)						
<b>OITC RATING</b>	33 (Outdoor-Indoor Transmission Class)						

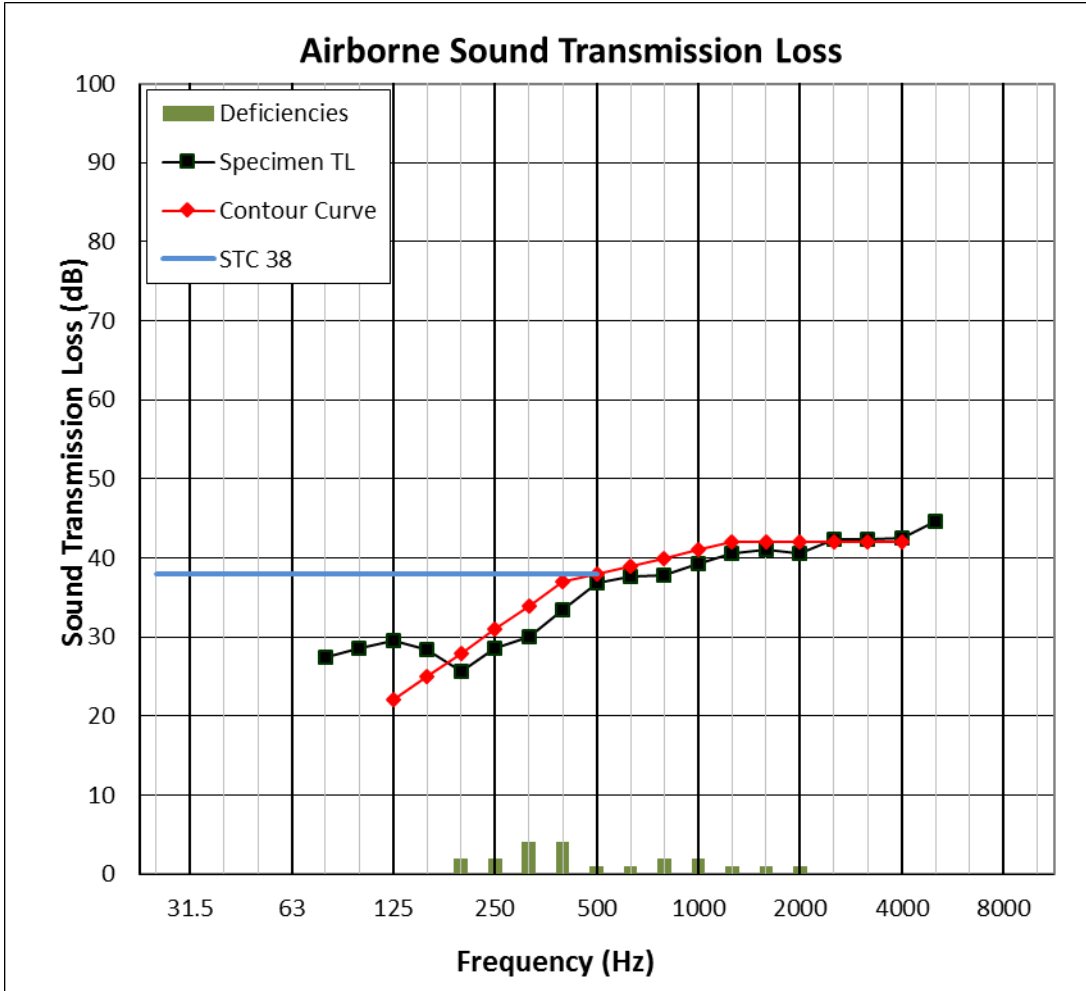
- Notes:**
- 1) Receive Room levels less than 5 dB above the Background levels are red.
  - 2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
  - 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

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### I9170.01A GRAPH



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### I9170.01A2 DATA

<b>SPECIMEN AREA</b>	2.08 m <sup>2</sup>	<b>RECEIVE TEMP.</b>	21.6 °C	<b>SOURCE TEMP</b>	21.3 °C
<b>TECHNICIAN</b>	Kurt Golden	<b>RECEIVE HUMIDITY</b>	50%	<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	41.3	5.6	103	73	27	2.06	-
100	40.4	6.1	105	73	29	1.97	-
125	39.4	6.5	105	73	28	1.31	0
160	42.7	5.4	107	77	26	0.94	0
200	40.2	4.7	106	77	25	1.20	0
250	38.7	5.6	102	71	28	0.65	0
315	33.1	5.8	103	70	29	0.30	2
400	28.1	6.1	102	67	31	0.48	3
500	25.2	6.3	102	64	33	0.56	2
630	21.8	6.1	101	62	34	0.37	2
800	20.1	6.2	100	63	32	0.23	5
1000	18.3	6.4	101	62	34	0.46	4
1250	19.1	7.0	100	60	35	0.45	4
1600	17.3	7.4	100	59	36	0.15	3
2000	14.9	7.8	100	59	35	0.28	4
2500	11.9	8.8	101	57	37	0.20	2
3150	11.1	10.3	99	54	39	0.27	0
4000	10.1	12.8	97	50	39	0.29	0
5000	10.5	16.1	97	48	40	0.21	-
<b>STC RATING</b>	35 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	31 (Sum of Deficiencies)						
<b>OITC RATING</b>	31 (Outdoor-Indoor Transmission Class)						

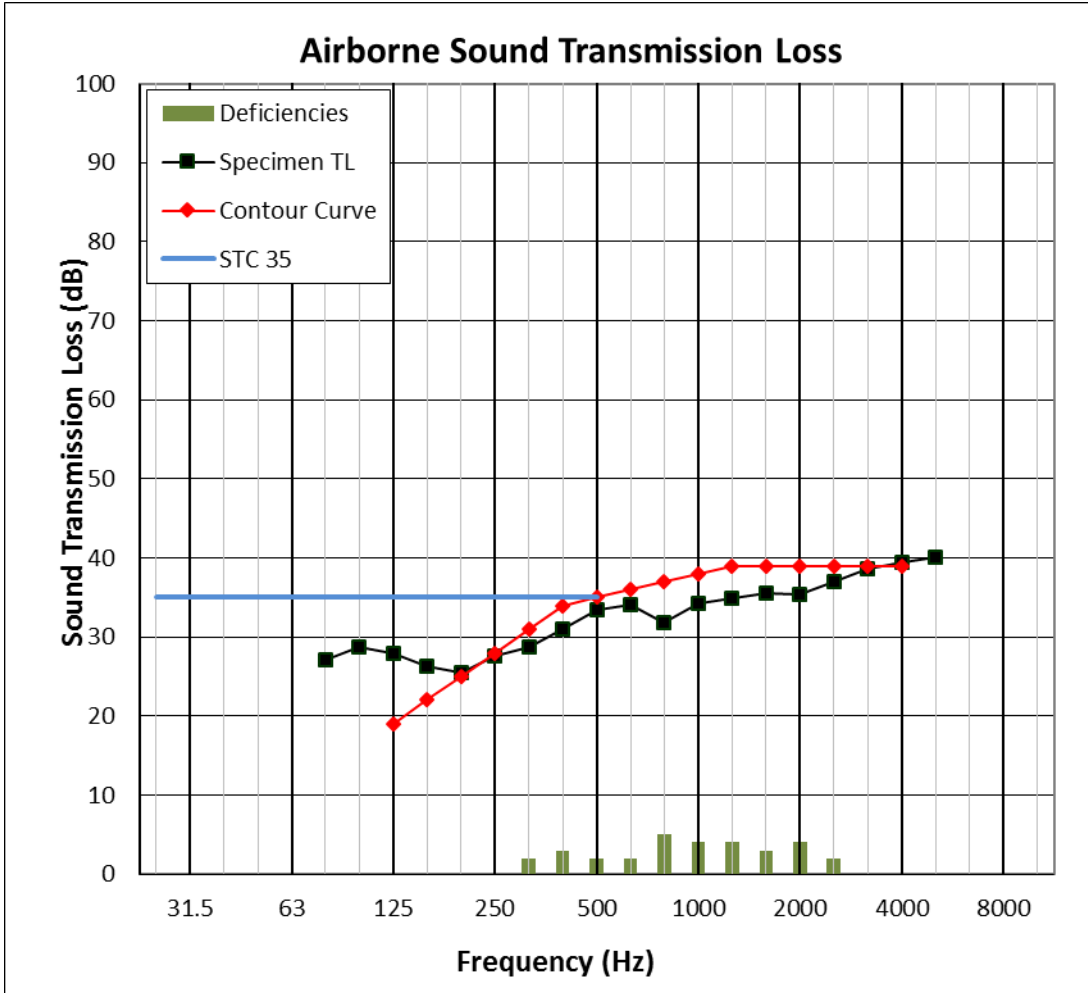
- Notes:**
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  - 2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
  - 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

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### I9170.01A2 GRAPH



## TEST REPORT FOR THERMA-TRU CORPORATION

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### I9170.01B DATA

<b>SPECIMEN AREA</b>	2.08 m <sup>2</sup>	<b>RECEIVE TEMP.</b>	22.6 °C	<b>SOURCE TEMP</b>	21.8 °C
<b>TECHNICIAN</b>	Kurt Golden	<b>RECEIVE HUMIDITY</b>	48%	<b>SOURCE HUMIDIT</b>	49%

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	37.6	6.0	104	74	26	2.06	-
100	33.8	6.6	104	75	25	1.64	-
125	37.5	6.2	105	75	25	1.21	0
160	38.7	5.6	107	82	21	0.77	1
200	37.5	5.1	106	83	20	1.33	5
250	32.8	5.6	103	75	23	0.57	5
315	26.5	5.8	103	74	24	0.29	7
400	23.0	5.9	102	70	28	0.66	6
500	18.3	6.3	102	64	34	0.57	1
630	18.5	5.9	101	61	36	0.38	0
800	16.3	6.2	100	58	37	0.22	0
1000	12.6	6.3	101	59	37	0.42	1
1250	9.4	6.9	100	55	39	0.41	0
1600	8.1	7.2	100	54	40	0.23	0
2000	8.2	7.6	100	54	40	0.23	0
2500	8.1	8.7	100	52	42	0.14	0
3150	8.5	10.2	99	52	40	0.25	0
4000	11.4	12.8	97	56	33	0.15	6
5000	10.7	16.2	97	52	37	0.23	-
<b>STC RATING</b>	35 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	32 (Sum of Deficiencies)						
<b>OITC RATING</b>	28 (Outdoor-Indoor Transmission Class)						

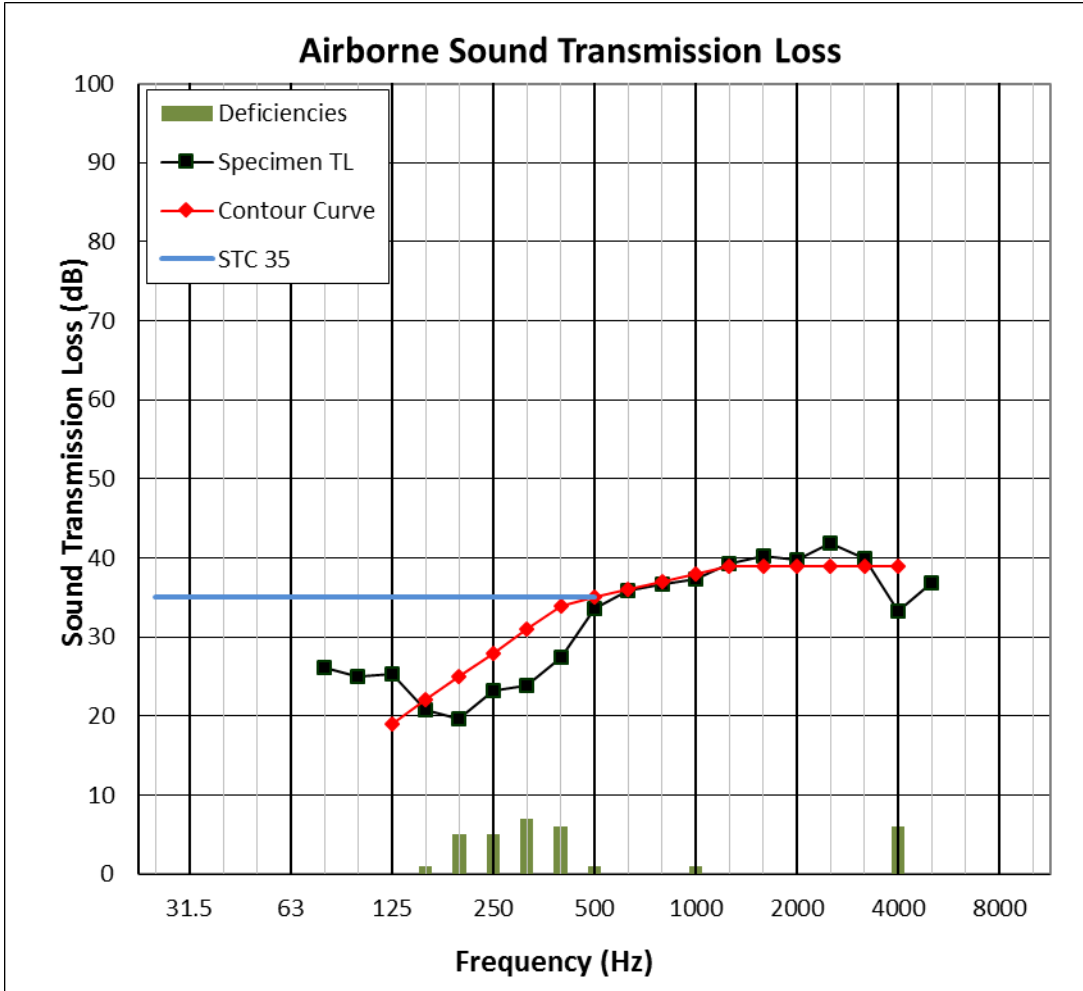
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  - 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

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### I9170.01B GRAPH





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### I9170.01B3 DATA

<b>SPECIMEN AREA</b>	2.08 m <sup>2</sup>	<b>RECEIVE TEMP.</b>	21.6 °C	<b>SOURCE TEMP</b>	21.4 °C
<b>TECHNICIAN</b>	Kurt Golden	<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	35.7	6.1	103	75	25	1.89	-
100	33.9	6.1	104	75	26	1.74	-
125	38.5	6.3	105	75	25	1.23	0
160	39.1	5.8	107	82	20	0.81	0
200	37.7	5.2	106	82	20	1.19	2
250	32.4	5.7	102	75	23	0.62	2
315	26.4	5.8	102	74	24	0.31	4
400	23.4	6.2	102	70	27	0.68	4
500	18.6	6.3	102	65	32	0.57	0
630	18.6	6.0	101	63	33	0.40	0
800	16.4	6.2	99	63	32	0.26	2
1000	12.8	6.3	101	64	32	0.44	3
1250	10.2	7.0	100	61	34	0.43	2
1600	8.4	7.4	100	59	35	0.17	1
2000	7.8	7.8	100	58	36	0.29	0
2500	7.9	8.9	100	57	37	0.25	0
3150	8.6	10.4	99	54	38	0.31	0
4000	9.5	12.8	97	56	33	0.22	3
5000	10.5	16.3	97	53	36	0.22	-
<b>STC RATING</b>	32 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	23 (Sum of Deficiencies)						
<b>OITC RATING</b>	28 (Outdoor-Indoor Transmission Class)						

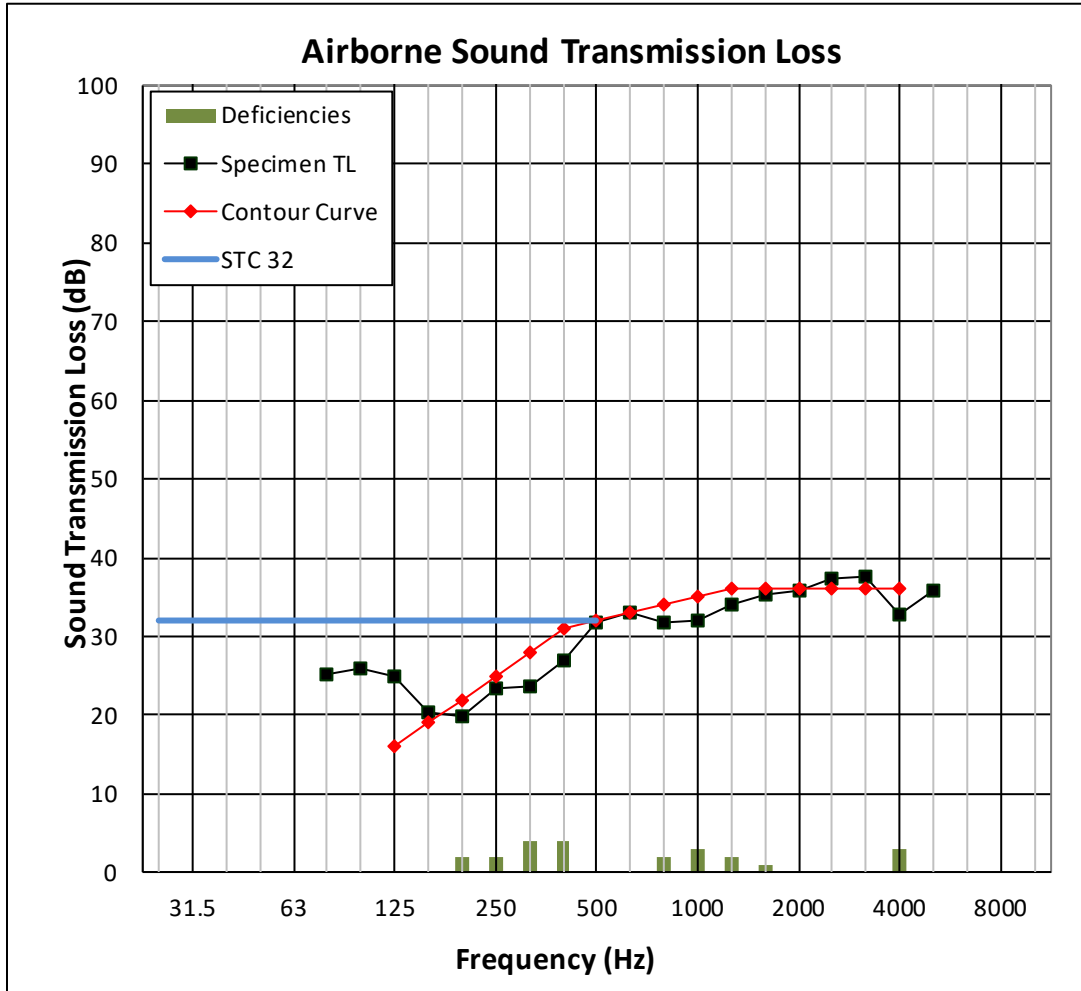
- Notes:**
- 1) Receive Room levels less than 5 dB above the Background levels are red.
  - 2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
  - 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

## TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: I9170.01-113-11-R1

Revision 1 Date: 04/12/22 Date: 12/19/18

### I9170.01B3 GRAPH



## TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: I9170.01-113-11-R1

Revision 1 Date: 04/12/22 Date: 12/19/18

### I9170.01C DATA

<b>SPECIMEN AREA</b>	2.08 m <sup>2</sup>	<b>RECEIVE TEMP.</b>	20.8 °C	<b>SOURCE TEMP</b>	21.2 °C
<b>TECHNICIAN</b>	Kurt Golden	<b>RECEIVE HUMIDITY</b>	49%	<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	38.3	5.6	103	73	27	2.03	-
100	38.9	6.2	104	75	26	1.67	-
125	39.4	6.8	105	74	27	1.36	0
160	39.8	5.6	107	76	27	0.79	0
200	38.3	5.1	106	77	26	1.18	0
250	32.9	5.5	102	72	26	0.61	0
315	27.1	5.8	103	73	26	0.26	1
400	23.5	6.1	102	75	22	0.51	8
500	19.4	6.4	102	70	27	0.62	4
630	19.9	6.1	101	65	32	0.35	0
800	17.1	6.2	100	64	31	0.31	2
1000	13.4	6.3	101	62	35	0.45	0
1250	10.3	6.9	100	58	37	0.44	0
1600	8.5	7.2	100	55	39	0.17	0
2000	7.7	7.6	100	55	39	0.27	0
2500	7.9	8.7	101	54	41	0.20	0
3150	10.8	10.3	99	53	39	0.30	0
4000	9.8	13.0	97	56	33	0.21	2
5000	10.7	16.5	97	50	38	0.18	-
<b>STC RATING</b>	31 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	17 (Sum of Deficiencies)						
<b>OITC RATING</b>	29 (Outdoor-Indoor Transmission Class)						

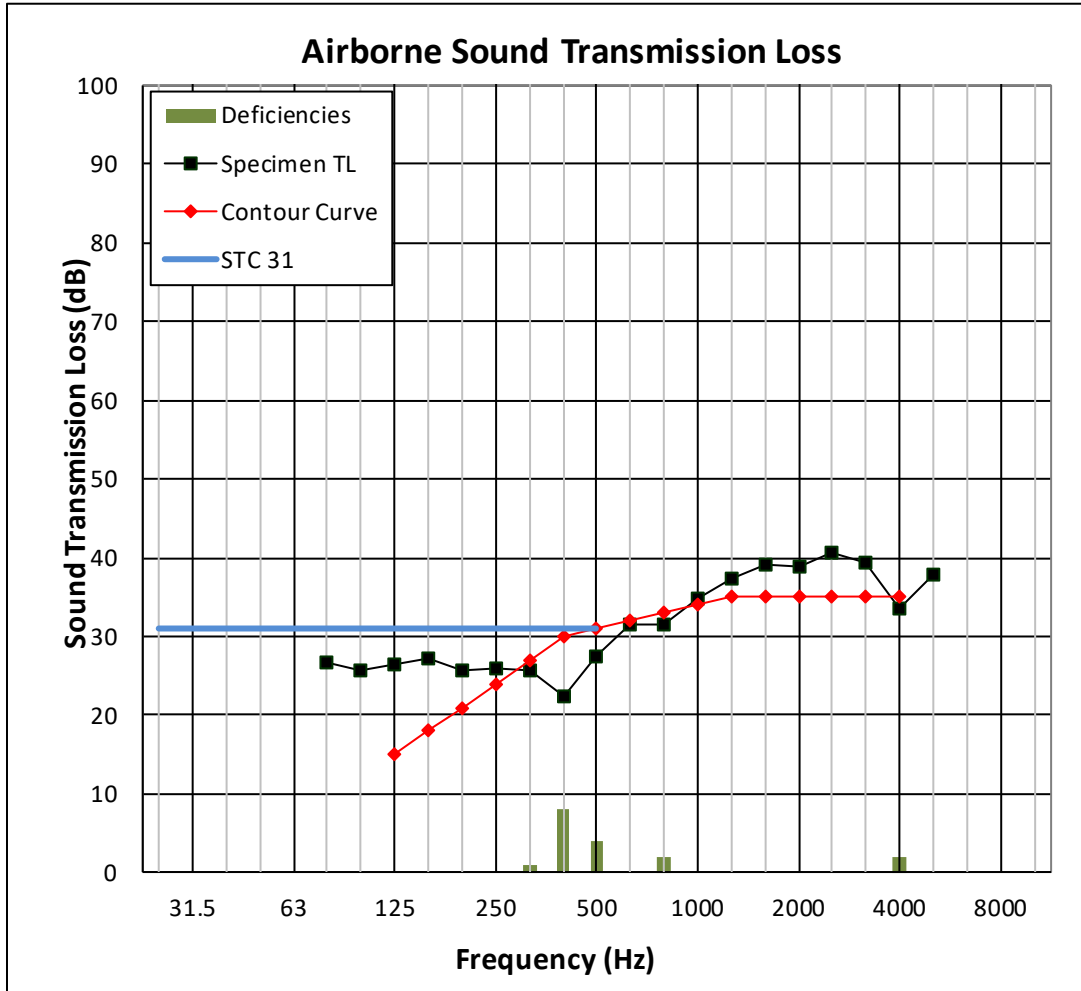
- Notes:**
- 1) Receive Room levels less than 5 dB above the Background levels are red.
  - 2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
  - 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

## TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: I9170.01-113-11-R1

Revision 1 Date: 04/12/22 Date: 12/19/18

### I9170.01C GRAPH



## TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: I9170.01-113-11-R1

Revision 1 Date: 04/12/22 Date: 12/19/18

### I9170.01C1 DATA

<b>SPECIMEN AREA</b>	2.08 m <sup>2</sup>	<b>RECEIVE TEMP.</b>	20.9 °C	<b>SOURCE TEMP</b>	21.2 °C
<b>TECHNICIAN</b>	Kurt Golden	<b>RECEIVE HUMIDITY</b>	48%	<b>SOURCE HUMIDIT</b>	46%

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	39.0	6.2	103	74	26	1.95	-
100	39.4	6.5	105	75	26	1.73	-
125	38.5	6.5	105	74	26	1.36	0
160	39.8	5.4	107	77	27	0.81	0
200	38.3	5.1	106	77	25	1.20	0
250	32.4	5.5	102	72	26	0.57	0
315	26.3	5.7	103	73	25	0.32	2
400	23.3	6.2	102	76	22	0.55	8
500	19.2	6.4	102	70	27	0.58	4
630	20.0	6.0	101	66	31	0.45	1
800	17.2	6.3	100	66	29	0.30	4
1000	13.4	6.4	101	65	31	0.45	3
1250	10.3	6.9	100	62	33	0.43	2
1600	10.4	7.3	100	60	35	0.26	0
2000	10.8	7.8	100	59	35	0.28	0
2500	8.5	8.9	101	58	36	0.22	0
3150	8.6	10.4	99	55	37	0.30	0
4000	9.5	13.0	97	56	33	0.25	2
5000	10.6	16.6	97	52	37	0.19	-
<b>STC RATING</b>	31 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	26 (Sum of Deficiencies)						
<b>OITC RATING</b>	28 (Outdoor-Indoor Transmission Class)						

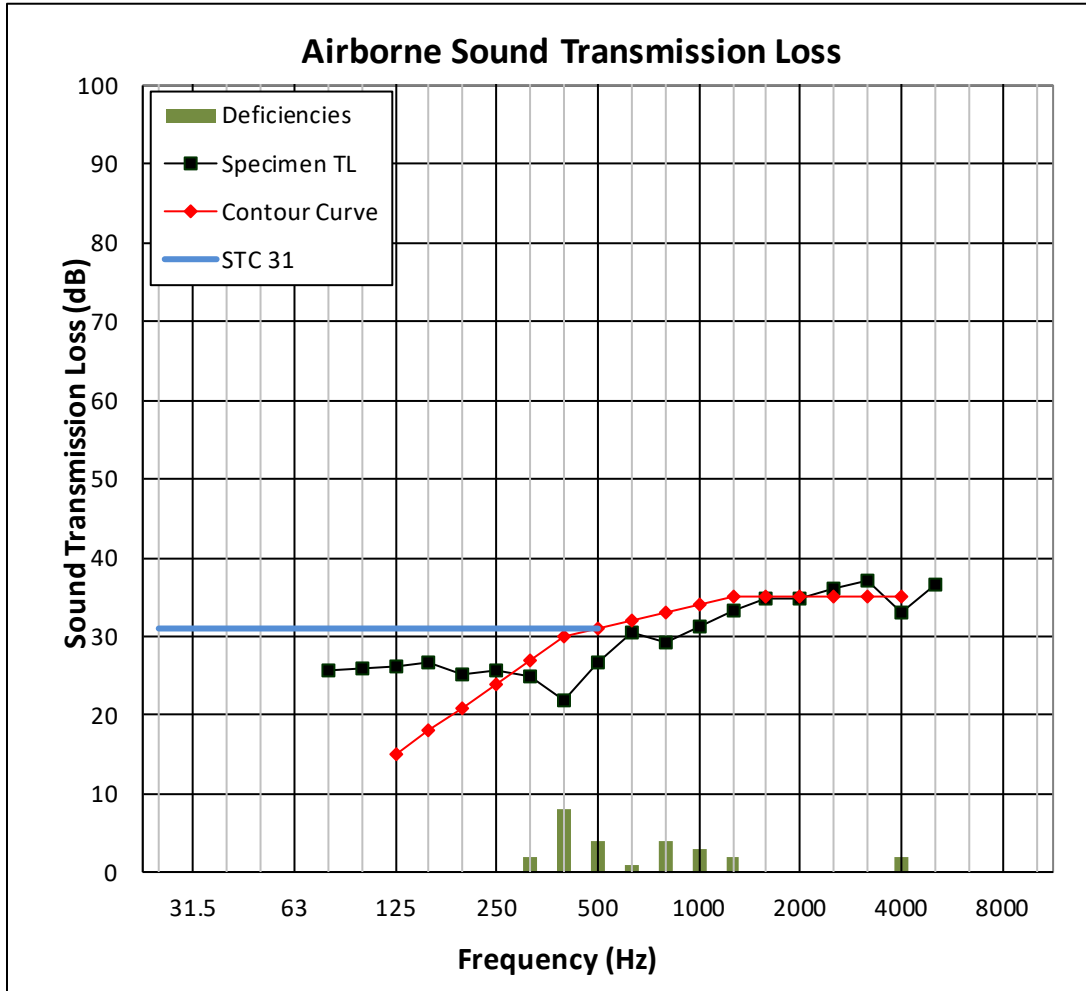
- Notes:**
- 1) Receive Room levels less than 5 dB above the Background levels are red.
  - 2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
  - 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

## TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: I9170.01-113-11-R1

Revision 1 Date: 04/12/22 Date: 12/19/18

### I9170.01C1 GRAPH



## TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: I9170.01-113-11-R1

Revision 1 Date: 04/12/22 Date: 12/19/18

### SECTION 11

#### PHOTOGRAPHS



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



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



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## TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: I9170.01-113-11-R1

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### SECTION 12

#### REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	12/19/18	N/A	Original Report Issue
1	04/12/22	4, 8	Added Comments
1	04/12/22	All	Reformatted and changed total number of pages from 23 to 24