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THERMA-TRU CORPORATION

ACOUSTICAL PERFORMANCE TEST REPORT

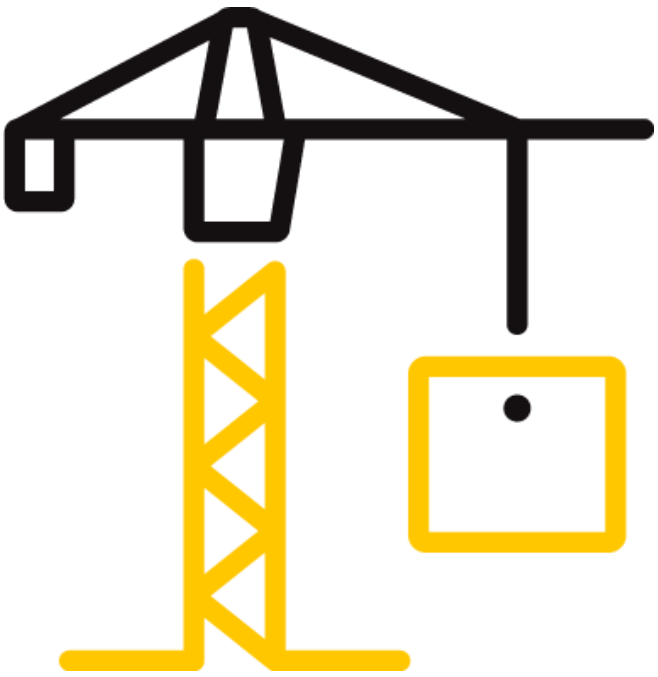
SCOPE OF WORK
ASTM E90 SOUND TRANSMISSION LOSS TESTING ON
FLUSH GLAZED FULL-LITE SMOOTH-STAR WITH LAMINATED GLASS,
3/0 X 8/0, FIBERGLASS SKIN SIDE-HINGED SINGLE DOOR SYSTEM

REPORT NUMBER
P9976.01-113-11-R0

TEST DATES
03/27/25; 03/28/25

ISSUE DATE
05/20/25

PAGES
19



DOCUMENT CONTROL NUMBER
RT-R-AMER-Test-2756 (01/20/25)

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TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: P9976.01-113-11-R0
Date: 05/20/25

REPORT ISSUED TO

THERMA-TRU CORPORATION
118 Industrial Drive
Edgerton, Ohio 43517

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba 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 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	Zachary P. Golden	**REVIEWED BY**	Kurt A. Golden
TITLE	Technician Team Leader Acoustical Testing	**TITLE**	Manager Acoustical Testing
SIGNATURE	Digitally Signed by: Zachary Golden	**SIGNATURE**	Digitally Signed by: Kurt A. Golden
DATE	05/20/25	**DATE**	05/20/25

ZPG:jmcs

Lab Code 600388-0

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TEST REPORT FOR THERMA-TRU CORPORATION
Report No.: P9976.01-113-11-R0
Date: 05/20/25

SECTION 2
SUMMARY OF TEST RESULTS

SERIES/MODEL	Flush Glazed Full-Lite Smooth-Star with Laminated Glass
TYPE	3/0 x 8/0, Fiberglass Skin Side-hinged Single Door System
GLAZING (Nominal Dimensions)	1" IG (1/8" tempered exterior, 1/2" air space, 3/8" laminated interior), Glass temperature 75°F

DESCRIPTION	Composite Frame
TEST CONDITION	Inoperable, sealed with duct seal on both sides of leaf
DATA FILE NO.	P9976.01A1
STC	32
OITC	29

DESCRIPTION	Composite Frame
TEST CONDITION	Operable
DATA FILE NO.	P9976.01A2
STC	31
OITC	28

DESCRIPTION	Wood Frame
TEST CONDITION	Inoperable, sealed with duct seal on both sides of leaf
DATA FILE NO.	P9976.01B1
STC	30
OITC	29

DESCRIPTION	Wood Frame
TEST CONDITION	Operable
DATA FILE NO.	P9976.01B2
STC	30
OITC	28

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SECTION 3
TEST METHODS

The specimens were evaluated in accordance with the following:

ASTM E90-23, *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*

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	INT02579	04/24
2-Channel Analog Input	National Instruments	NI-9250	2-Channel Analog Input	INT02580	04/24
2-Channel Analog Input	National Instruments	NI-9250	2-Channel Analog Input	INT02581	04/24
2-Channel Analog Input	National Instruments	NI-9250	2-Channel Analog Input	INT02583	04/24
2-Channel Analog Input	National Instruments	NI-9250	2-Channel Analog Input	INT02584	04/24
2-Channel Analog Input	National Instruments	NI-9250	2-Channel Analog Input	INT02585	04/24
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT03909	05/24
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT03910	05/24
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	65969	05/24
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT03907	05/24
Source Room Microphone	PCB piezotronics	378C20	Microphone and Preamplifier	INT03912	05/24
Receive Room Microphone	PBC Piezotronics	378C20	Microphone and Preamplifier	INT03913	05/24
Receive Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	65617	07/24
Receive Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT02256	01/25
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	INT03914	05/24
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	INT03436	05/24
Receive Room Environmental Indicator	Comet	T7510	Receive Room	64915	01/25
Source Room Environmental Indicator	Comet	T7510	Source Room	INT00603	05/24
Microphone Calibrator	Norsonic	Nor 1255	Acoustical Calibrator	INT03566	08/24

**- 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 Temperature and humidity controlled Isolation pads under the floor
SOURCE ROOM	207 m^3	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
Zachary P. Golden	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 levels 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

	FRAME
SIZE	37-5/8" by 98"
THICKNESS	4-1/4"
CORNERS	Coped
FASTENERS	Screws
SEAL METHOD	Sealant
OPTION P9976.01A MATERIAL	Composite
OPTION P9976.01B MATERIAL	Wood
SILL MATERIAL	Aluminum
REINFORCEMENT	N/A
THERMAL BREAK MATERIAL	N/A

The leaf was 36" wide by 95" high by 1-3/4" thick. The daylight opening was 24" wide by 79" high.

Per the client's request, the contents of the door leaf are proprietary.

OPTION P9976.01A

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.014"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	GAP	INTERIOR SHEET
MEASURED THICKNESS	0.123"	0.534"	0.152", 0.089", 0.116"
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Tempered	Air*	Laminated
LAMINATE MATERIAL	N/A	N/A	PVB

OPTION P9976.01B

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.011"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	GAP	INTERIOR SHEET
MEASURED THICKNESS	0.125"	0.531"	0.150", 0.089", 0.116"
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Tempered	Air*	Laminated
LAMINATE MATERIAL	N/A	N/A	PVB

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

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GLAZING METHOD	Channel
GLAZING MATERIAL	Silicon

	TYPE	**QUANTITY**	**LOCATION**
WEATHERSTRIP	Q-lon® Long Reach foam-filled leaf gasket	1 Row	Lock jamb and head
	Q-lon®	1 Row	Hinge jamb
	3/8" Diameter hollow dual bulb gasket and 3/8" triple fin leaf sweep gasket	1 Row	Bottom rail
	1" by 3" Foam pad	1	Bottom jambs
HARDWARE	Hinge	3	Hinge jamb
	Adjusting threshold	1	Sill
	Lock assembly set	1	Lock stile
	Dead bolt	1	Lock stile
DRAINAGE	Sloped sill	1	Sill

OPTION	**TOTAL WEIGHT** (lbs)	**AVERAGE WEIGHT** (lbs/ft^2)
P9976.01A	165	6.44
P9976.01B	151	5.90

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

ASTM E90
AIRBORNE SOUND TRANSMISSION LOSS

NVLAP TESTING
Lab Code 600388-0

TEST DATE	03/27/25				
DATA FILE NO.	P9976.01A1				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Flush Glazed Full Lite Smooth-Star, 3/0 x 8/0, fiberglass skin, composite frame, side-hinged single door system with 1" IG (1/8" tempered exterior, 1/2" air space, 3/8" laminated interior), Glass temperature 75F, Inoperable, sealed with duct seal on both sides of leaf				
SPECIMEN AREA	2.38 m²	**RECEIVE TEMP.**	21.6 °C	**SOURCE TEMP.**	22.3 °C
TECHNICIAN	Zachary P. G	**RECEIVE HUMIDITY**	47%	**SOURCE HUMIDITY**	48%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% SAMPLING LIMIT (dB)	NUMBER OF DEFICIENCIES
80	34.3	4.9	106	83	20	4.26	-
100	29.9	6.2	105	78	23	2.90	-
125	30.5	5.9	107	79	25	2.30	0
160	38.3	5.4	108	80	26	1.26	0
200	36.8	5.9	107	78	26	0.99	0
250	32.4	6.0	104	76	24	1.32	1
315	29.8	6.2	104	73	27	0.62	1
400	28.9	6.3	103	69	30	1.06	1
500	28.0	6.1	104	65	34	1.39	0
630	26.7	6.0	104	64	36	0.71	0
800	27.1	6.4	102	62	36	0.48	0
1000	26.1	6.6	103	66	32	0.38	3
1250	27.4	6.9	101	63	33	0.88	3
1600	22.4	7.5	99	67	28	0.45	8
2000	12.7	7.9	101	66	30	0.25	6
2500	8.3	9.1	102	60	37	0.48	0
3150	7.0	11.1	101	50	45	0.54	0
4000	7.7	13.8	99	49	42	0.64	0
5000	8.4	17.4	99	46	44	0.40	-
STC RATING	32	*(Sound Transmission Class)*					
DEFICIENCIES	23	*(Sum of Deficiencies)*					
OITC RATING	29	*(Outdoor-Indoor Transmission Class)*					

Notes: *1) Receive Room levels less than 6 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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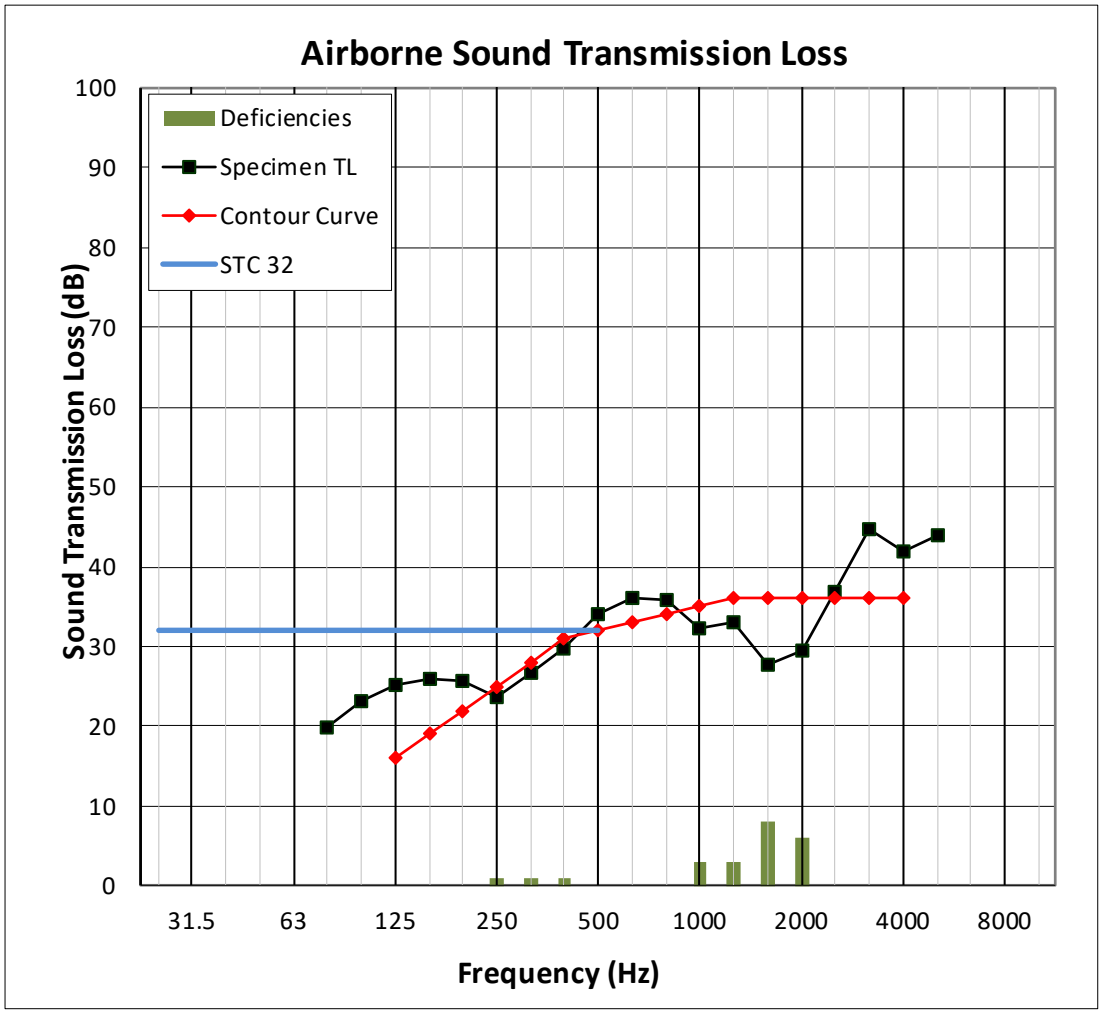
ASTM E90
AIRBORNE SOUND TRANSMISSION LOSS

NVLAP TESTING
Lab Code 600388-0

TEST DATE	03/27/25				
DATA FILE NO.	P9976.01A1				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Flush Glazed Full Lite Smooth-Star, 3/0 x 8/0, fiberglass skin, composite frame, side-hinged single door system with 1" IG (1/8" tempered exterior, 1/2" air space, 3/8" laminated interior), Glass temperature 75F, Inoperable, sealed with duct seal on both sides of leaf				
SPECIMEN AREA	2.38 m²	**RECEIVE TEMP.**	21.6 °C	**SOURCE TEMP.**	22.3 °C
TECHNICIAN	Zachary P. G	**RECEIVE HUMIDITY**	47%	**SOURCE HUMIDITY**	48%



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ASTM E90
AIRBORNE SOUND TRANSMISSION LOSS

NVLAP TESTING
Lab Code 600388-0

TEST DATE	03/27/25				
DATA FILE NO.	P9976.01A2				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Flush Glazed Full Lite Smooth-Star, 3/0 x 8/0, fiberglass skin, composite frame, side-hinged single door system with 1" IG (1/8" tempered exterior, 1/2" air space, 3/8" laminated interior), Glass temperature 75F, Operable				
SPECIMEN AREA	2.38 m²	**RECEIVE TEMP.**	21.6 °C	**SOURCE TEMP.**	22.3 °C
TECHNICIAN	Zachary P. G	**RECEIVE HUMIDITY**	47%	**SOURCE HUMIDITY**	48%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% SAMPLING LIMIT (dB)	NUMBER OF DEFICIENCIES
80	38.2	5.0	105	82	20	3.59	-
100	32.5	6.2	106	79	23	2.87	-
125	33.9	5.8	107	80	24	2.26	0
160	39.3	5.2	108	80	25	1.40	0
200	37.2	5.8	107	80	24	1.06	0
250	32.5	6.1	104	78	22	1.37	2
315	29.9	6.1	104	74	26	0.64	1
400	28.8	6.3	103	71	28	0.97	2
500	27.8	6.1	104	67	33	1.41	0
630	26.6	6.2	104	66	34	0.72	0
800	27.1	6.4	101	65	32	0.47	1
1000	26.0	6.6	103	68	31	0.45	3
1250	27.2	7.0	101	65	32	0.91	3
1600	22.6	7.6	99	67	27	0.46	8
2000	12.7	8.1	101	66	29	0.31	6
2500	8.4	9.3	102	61	36	0.50	0
3150	7.1	11.1	101	54	41	0.52	0
4000	7.8	13.7	99	51	40	0.61	0
5000	8.5	17.5	99	50	40	0.43	-
STC RATING		31	*(Sound Transmission Class)*				
DEFICIENCIES		26	*(Sum of Deficiencies)*				
OITC RATING		28	*(Outdoor-Indoor Transmission Class)*				

Notes: *1) Receive Room levels less than 6 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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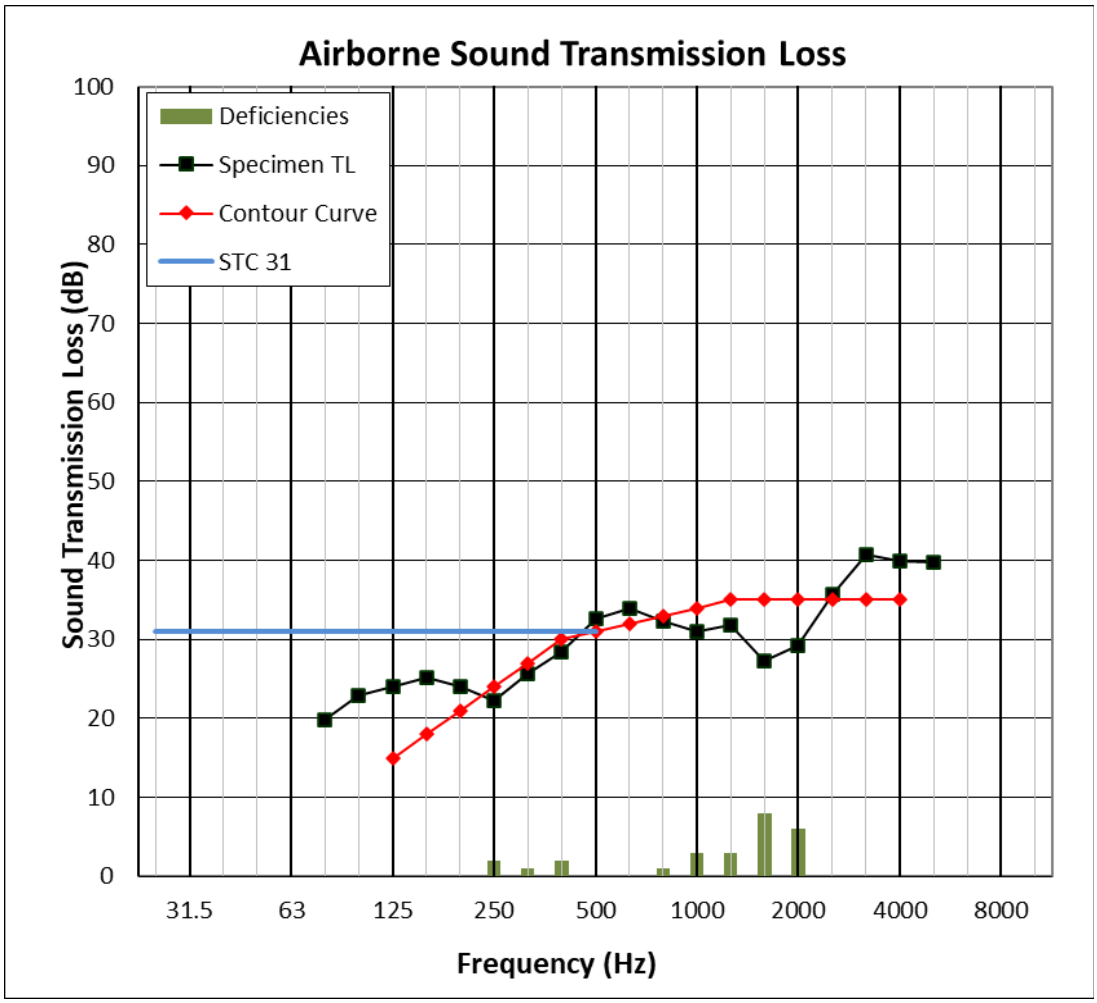
ASTM E90
AIRBORNE SOUND TRANSMISSION LOSS

NVLAP TESTING
Lab Code 600388-0

TEST DATE	03/27/25				
DATA FILE NO.	P9976.01A2				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Flush Glazed Full Lite Smooth-Star, 3/0 x 8/0, fiberglass skin, composite frame, side-hinged single door system with 1" IG (1/8" tempered exterior, 1/2" air space, 3/8" laminated interior), Glass temperature 75F, Operable				
SPECIMEN AREA	2.38 m²	**RECEIVE TEMP.**	21.6 °C	**SOURCE TEMP.**	22.3 °C
TECHNICIAN	Zachary P. G	**RECEIVE HUMIDITY**	47%	**SOURCE HUMIDITY**	48%



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ASTM E90
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Lab Code 600388-0

TEST DATE	03/28/25				
DATA FILE NO.	P9976.01B1				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Flush Glazed Full Lite Smooth-Star, 3/0 x 8/0, fiberglass skin, wood frame, side-hinged single door system with 1" IG (1/8" tempered exterior, 1/2" air space, 3/8" laminated interior), Glass temperature 75F, Inoperable, sealed with duct seal on both sides of leaf				
SPECIMEN AREA	2.38 m²	**RECEIVE TEMP.**	22.1 °C	**SOURCE TEMP.**	21.9 °C
TECHNICIAN	Kurt Golden	**RECEIVE HUMIDITY**	46%	**SOURCE HUMIDITY**	48%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% SAMPLING LIMIT (dB)	NUMBER OF DEFICIENCIES
80	37.7	4.8	106	83	20	4.02	-
100	32.4	6.9	105	79	22	3.23	-
125	32.5	5.5	107	79	25	2.18	0
160	38.6	5.3	108	80	25	1.73	0
200	34.7	5.7	107	78	25	1.01	0
250	31.7	6.3	104	76	24	1.42	0
315	28.8	6.1	103	72	27	0.60	0
400	29.2	6.5	103	68	30	0.86	0
500	28.0	6.0	104	66	34	1.36	0
630	25.7	6.1	103	63	36	0.76	0
800	26.1	6.4	101	61	36	0.60	0
1000	24.2	6.6	103	67	32	0.49	1
1250	24.4	6.9	101	64	32	0.84	2
1600	22.2	7.5	99	68	26	0.47	8
2000	12.8	8.0	101	64	31	0.39	3
2500	9.4	9.2	102	59	38	0.57	0
3150	7.2	11.0	101	49	45	0.55	0
4000	7.8	13.7	98	49	42	0.70	0
5000	8.3	17.5	99	47	43	0.37	-
STC RATING	30	*(Sound Transmission Class)*					
DEFICIENCIES	14	*(Sum of Deficiencies)*					
OITC RATING	29	*(Outdoor-Indoor Transmission Class)*					

Notes: *1) Receive Room levels less than 6 dB above the Background levels are red.*
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TEST DATE	03/28/25				
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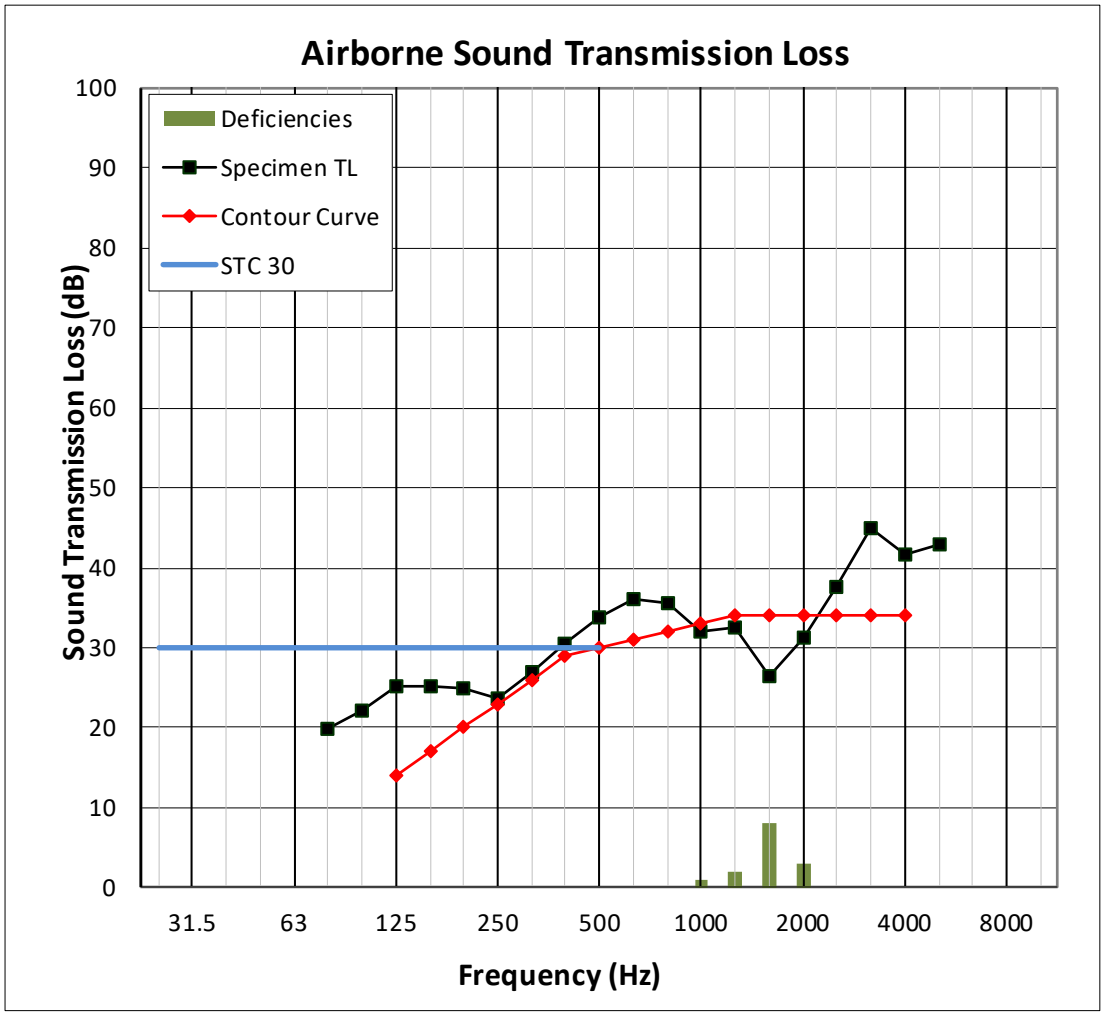
TECHNICIAN	Kurt Golden	**RECEIVE HUMIDITY**	46%	**SOURCE HUMIDITY**	48%



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Lab Code 600388-0

TEST DATE	03/28/25				
DATA FILE NO.	P9976.01B2				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Flush Glazed Full Lite Smooth-Star, 3/0 x 8/0, fiberglass skin, wood frame, side-hinged single door system with 1" IG (1/8" tempered exterior, 1/2" air space, 3/8" laminated interior), Glass temperature 75F, Operable				
SPECIMEN AREA	2.38 m²	**RECEIVE TEMP.**	22.0 °C	**SOURCE TEMP.**	22.1 °C
TECHNICIAN	Kurt Golden	**RECEIVE HUMIDITY**	45%	**SOURCE HUMIDITY**	48%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% SAMPLING LIMIT (dB)	NUMBER OF DEFICIENCIES
80	37.6	5.3	106	83	19	3.96	-
100	32.8	6.5	105	79	22	2.91	-
125	33.2	5.7	107	80	23	2.32	0
160	40.2	5.2	108	81	24	1.56	0
200	36.2	5.9	107	81	23	0.85	0
250	32.7	6.1	104	78	22	1.32	1
315	30.1	6.0	103	73	26	0.46	0
400	30.3	6.4	103	70	29	0.89	0
500	28.9	6.2	104	68	32	1.33	0
630	26.9	6.1	103	66	33	0.74	0
800	27.1	6.5	101	65	32	0.54	0
1000	24.7	6.6	103	69	30	0.53	3
1250	25.0	7.0	101	65	31	0.81	3
1600	22.9	7.6	99	68	26	0.51	8
2000	13.4	8.1	101	64	31	0.30	3
2500	9.9	9.4	102	60	36	0.56	0
3150	8.1	11.2	101	53	41	0.60	0
4000	8.6	14.0	98	51	40	0.68	0
5000	8.6	17.8	99	50	40	0.43	-
STC RATING	30	*(Sound Transmission Class)*					
DEFICIENCIES	18	*(Sum of Deficiencies)*					
OITC RATING	28	*(Outdoor-Indoor Transmission Class)*					

Notes: *1) Receive Room levels less than 6 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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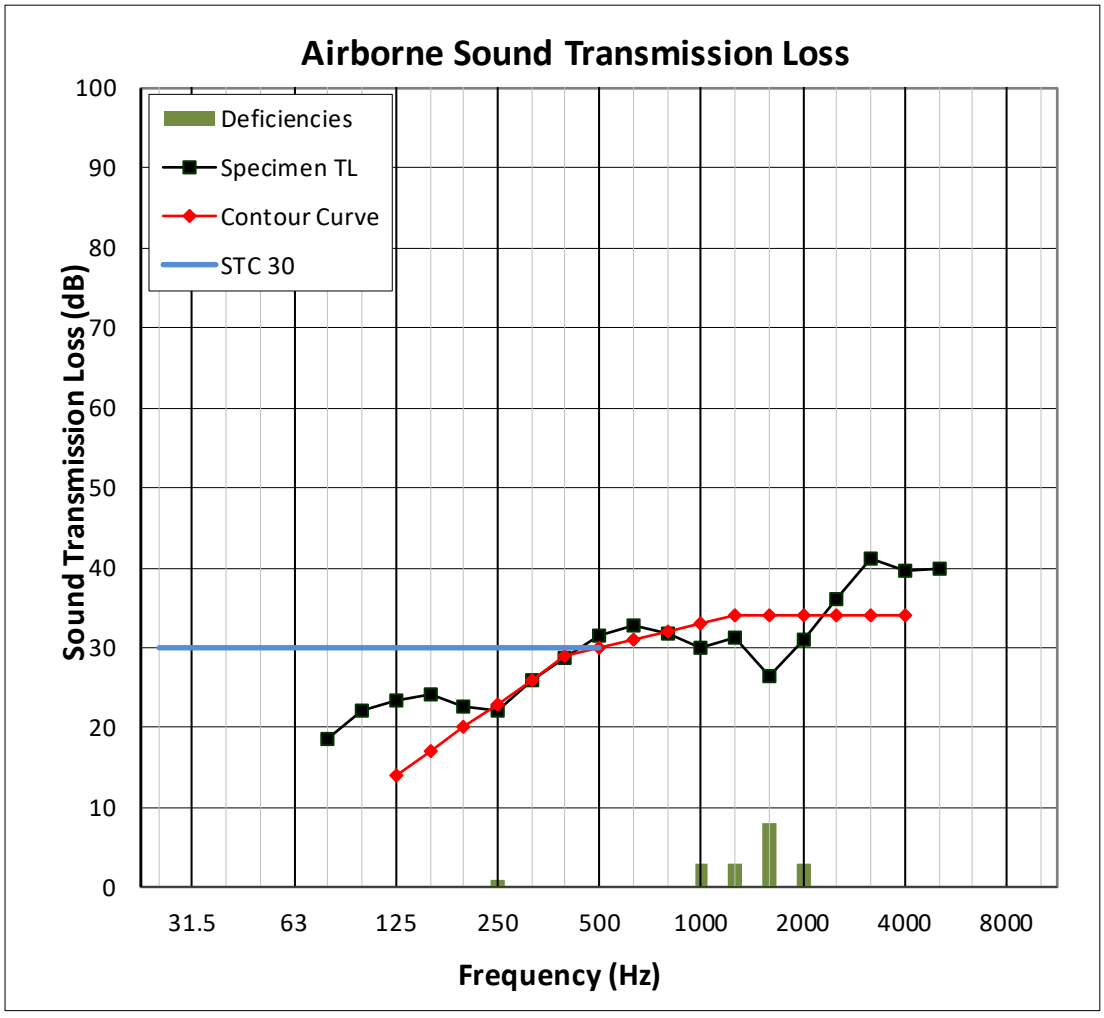
TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: P9976.01-113-11-R0
Date: 05/20/25

ASTM E90
AIRBORNE SOUND TRANSMISSION LOSS

NVLAP TESTING
Lab Code 600388-0

TEST DATE	03/28/25				
DATA FILE NO.	P9976.01B2				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Flush Glazed Full Lite Smooth-Star, 3/0 x 8/0, fiberglass skin, wood frame, side-hinged single door system with 1" IG (1/8" tempered exterior, 1/2" air space, 3/8" laminated interior), Glass temperature 75F, Operable				
SPECIMEN AREA	2.38 m²	**RECEIVE TEMP.**	22.0 °C	**SOURCE TEMP.**	22.1 °C
TECHNICIAN	Kurt Golden	**RECEIVE HUMIDITY**	45%	**SOURCE HUMIDITY**	48%



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SECTION 11
PHOTOGRAPHS

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

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

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TEST REPORT FOR THERMA-TRU CORPORATION
Report No.: P9976.01-113-11-R0
Date: 05/20/25

Photo No. 3
Receive Room View of Installed Inoperable Test Specimen

Photo No. 4
Source Room View of Installed Inoperable Test Specimen

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SECTION 12
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	05/20/25	N/A	Original Report Issue