

THERMA-TRU CORPORATION ACOUSTICAL PERFORMANCE TEST REPORT

SCOPE OF WORK

ASTM E90 SOUND TRANSMISSION LOSS TESTING ON A
SMOOTH-STAR/FIBER-CLASSIC FLUSH GLAZED SHAKER DOOR,
3/0-8/0 SIDE-HINGED SINGLE DOOR SYSTEM WITH FIBERGLASS SKIN

REPORT NUMBER

T2806.01-113-11-R0

TEST DATE

03/30/26

ISSUE DATE

04/09/26

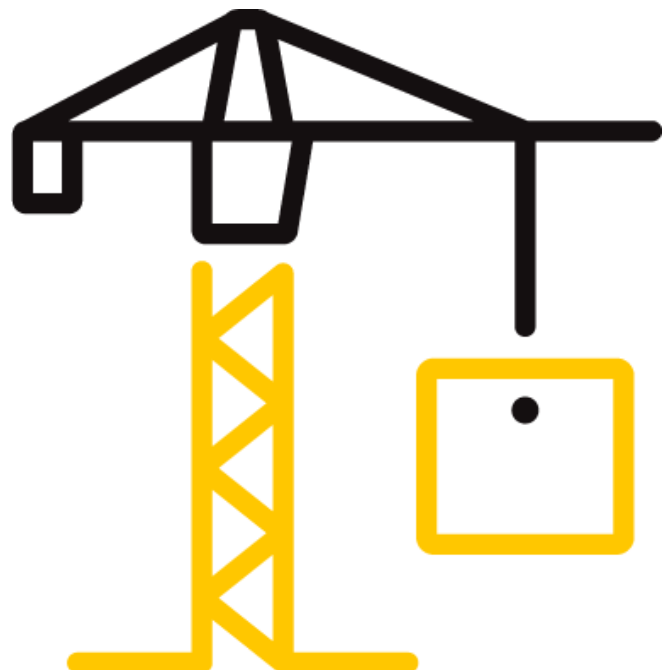
PAGES

20

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2761 (08/20/25)

© 2017 INTERTEK



TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

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
TITLE	Technician Acoustical Testing
SIGNATURE	
DATE	04/09/26

REVIEWED BY	Kurt A. Golden
TITLE	Manager Acoustical Testing
SIGNATURE	
DATE	04/02/26

ZPG:lcr

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

This page alone is not a complete report.



Lab Code 600388-0

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

SECTION 2

SUMMARY OF TEST RESULTS

SERIES/MODEL	Smooth-Star/Fiber-classic Flush Glazed Shaker Door
SIZE	3/0-8/0
TYPE	Side-hinged single door system with fiberglass skin
GLAZING (Nominal Dimensions)	3/4 Lite with 1" IG (1/8" tempered, 5/16" air space, 1/8" tempered, 5/16" air space, 1/8" tempered)

TEST CONDITION	Inoperable, sealed with duct seal on both sides of leaf
DATA FILE NO.	T2806.01A
FRAME TYPE	Composite
STC	29
OITC	25

TEST CONDITION	Operable with standard seal set
DATA FILE NO.	T2806.01A1
FRAME TYPE	Composite
STC	29
OITC	25

TEST CONDITION	Inoperable, sealed with duct seal on both sides of leaf
DATA FILE NO.	T2806.01B
FRAME TYPE	Wood
STC	29
OITC	25

TEST CONDITION	Operable with standard seal set
DATA FILE NO.	T2806.01B1
FRAME TYPE	Wood
STC	29
OITC	25

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

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.

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

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	04/25
2-Channel Analog Input	National Instruments	NI-9250	2-Channel Analog Input	INT02580	04/25
2-Channel Analog Input	National Instruments	NI-9250	2-Channel Analog Input	INT02581	04/25
2-Channel Analog Input	National Instruments	NI-9250	2-Channel Analog Input	INT02583	04/25
2-Channel Analog Input	National Instruments	NI-9250	2-Channel Analog Input	INT02584	04/25
2-Channel Analog Input	National Instruments	NI-9250	2-Channel Analog Input	INT02585	04/25
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT03913	05/25
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT03911	05/25
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT02911	01/26
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT03720	10/25
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT03738	10/25
Receive Room Microphone	PBC Piezotronics	378C20	Microphone and Preamplifier	INT03739	10/25
Receive Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT03905	04/25
Receive Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT03908	05/25
Receive Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT03910	05/25
Receive Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT03909	05/25
Receive Room Environmental Indicator	Comet	T7510	Receive Room	64915	01/26
Source Room Environmental Indicator	Comet	T7510	Source Room	64914	04/25
Microphone Calibrator	Norsonic	Nor1255	Acoustical Calibrator	INT03566	08/25

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

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

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 save photographs of the sampled test specimens.

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.

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

SECTION 9

SPECIMEN DESCRIPTION

OPTION T2806.01A

	FRAME
SIZE	37 5/8" by 98"
THICKNESS	5 3/4"
CORNERS	Butted
FASTENERS	Screws
SEAL METHOD	Sealant
MATERIAL A	Composite with aluminum threshold
REINFORCEMENT	N/A
THERMAL BREAK MATERIAL	N/A

LEAF DESCRIPTION:

The leaf was 36" wide by 95-1/4" high by 1-3/4" thick. The daylight opening size was 24-1/4" wide by 63-1/8" high. The area of the recessed panel was 24-3/8" wide by 9-1/2" high

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	0.971"
SPACER TYPE	Reinforced butyl

	EXTERIOR SHEET	GAP	CENTER SHEET	GAP	INTERIOR SHEET
MEASURED THICKNESS	0.115"	0.309"	0.117"	0.310"	0.120"
MUNTIN PATTERN	N/A	N/A	N/A	N/A	N/A
MATERIAL	Tempered	Air*	Tempered	Air*	Tempered
LAMINATE MATERIAL	N/A	N/A	N/A	N/A	N/A

GLAZING METHOD	Channel
GLAZING MATERIAL	Silicone
GLAZING BEAD MATERIAL	NA

LEAF LAYERS (OUTSIDE TO INSIDE)	LAYER DESCRIPTION (MATERIAL AND THICKNESS)
1	0.069" Fiberglass skin
2	1.554" Foam core
3	0.069" Fiberglass skin

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

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

LEAF RECESSED PANEL LAYERS (OUTSIDE TO INSIDE)	RECESSED PANEL LAYER DESCRIPTION (MATERIAL AND THICKNESS)
1	0.069" Fiberglass skin
2	0.883" Foam core
3	0.069" Fiberglass skin

OPTION T2806.01B

	FRAME
SIZE	37 5/8" by 98"
THICKNESS	5 3/4"
CORNERS	Butted
FASTENERS	Screws
SEAL METHOD	Sealant
MATERIAL A	Wood with aluminum threshold
REINFORCEMENT	N/A
THERMAL BREAK MATERIAL	N/A

LEAF DESCRIPTION:

The leaf was 36" wide by 95-1/4" high by 1-3/4" thick. The daylight opening size was 24-1/4" wide by 63-1/8" high. The area of the recessed panel was 24-3/8" wide by 9-1/2" high

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	0.971"
SPACER TYPE	Reinforced butyl

	EXTERIOR SHEET	GAP	SHEET	GAP	INTERIOR SHEET
MEASURED THICKNESS	0.116"	0.317"	0.117"	0.301"	0.120"
MUNTIN PATTERN	N/A	N/A	N/A	N/A	N/A
MATERIAL	Tempered	Air*	Tempered	Air*	Tempered
LAMINATE MATERIAL	N/A	N/A	N/A	N/A	N/A

GLAZING METHOD	Channel
GLAZING MATERIAL	Foam tape/Silicone

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

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

LEAF LAYERS (OUTSIDE TO INSIDE)	LAYER DESCRIPTION (MATERIAL AND THICKNESS)
1	0.069" Fiberglass skin
2	1.554" Foam core
3	0.069" Fiberglass skin

LEAF RECESSED PANEL LAYERS (OUTSIDE TO INSIDE)	RECESSED PANEL LAYER DESCRIPTION (MATERIAL AND THICKNESS)
1	0.069" Fiberglass skin
2	0.883" Foam core
3	0.069" Fiberglass skin

	TYPE	QUANTITY	LOCATION
WEATHERSTRIP	Therma-Tru Long Reach foam-filled leaf gasket	1 Row	Head; lock jamb
	Therma-Tru foam-filled leaf gasket	1 Row	Hinge jamb
	3-1/2" Q-Lon® foam-filled wedge pad	2	Bottom jambs
	Therma-Tru double bulb PVB door bottom	1 Row	Bottom rail
HARDWARE	Lock Assembly Set	1	Hinge Stile
	Strike plate	2	Keeper Jamb
	ADA Sill	1	Sill
	Full mortise butt hinges	4	Hinge stile
DRAINAGE	Sloped sill	1	Sill

OPTION	TOTAL WEIGHT A (lbs)	AVERAGE WEIGHT (lbs/ft ²)
T2806.01A	145	5.66
T2806.01B	132	5.15

Photographs are included in Section 11.

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

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

SECTION 10

TEST RESULTS

ASTM E90

AIRBORNE SOUND TRANSMISSION LOSS



Lab Code 600388-0

TEST DATE	03/30/26				
DATA FILE NO.	T2806.01A				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Smooth-Star/Fiber-classic Flush Glazed Shaker Door, side-hinged single door system with fiberglass skin and composite frame and 3/4 Lite with 1" IG (1/8" tempered, 5/16" air space, 1/8" tempered, 5/16" air space, 1/8" tempered), Inoperable, sealed with duct seal on both sides of leaf				
SPECIMEN AREA	2.38 m ²	RECEIVE TEMP.	20.1 °C	SOURCE TEMP.	20.1 °C
TECHNICIAN	Zachary P. G	RECEIVE HUMIDITY	46%	SOURCE HUMIDITY	45%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m ²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% SAMPLING LIMIT (dB)	NUMBER OF DEFICIENCIES
80	38.0	5.2	107	84	21	4.07	-
100	40.2	7.4	106	81	21	2.99	-
125	34.6	5.9	108	85	19	2.41	0
160	37.8	6.0	109	86	19	1.67	0
200	35.3	6.7	108	81	22	0.87	0
250	30.9	6.7	105	80	20	1.31	2
315	26.4	6.4	105	76	24	0.79	1
400	22.1	6.5	103	73	26	0.71	2
500	18.8	6.2	104	70	30	1.03	0
630	16.8	6.4	104	69	32	1.07	0
800	16.8	6.6	103	66	32	0.51	0
1000	14.1	6.6	105	68	32	0.59	0
1250	11.4	6.9	102	66	31	0.53	2
1600	10.2	7.4	101	66	29	0.65	4
2000	9.3	8.1	102	71	25	0.58	8
2500	7.1	9.3	102	68	28	0.35	5
3150	6.9	11.2	101	58	36	0.24	0
4000	7.6	14.1	99	55	36	0.41	0
5000	8.2	18.0	99	50	40	0.46	-
STC RATING	29 (Sound Transmission Class)						
DEFICIENCIES	24 (Sum of Deficiencies)						
OITC RATING	25 (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

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

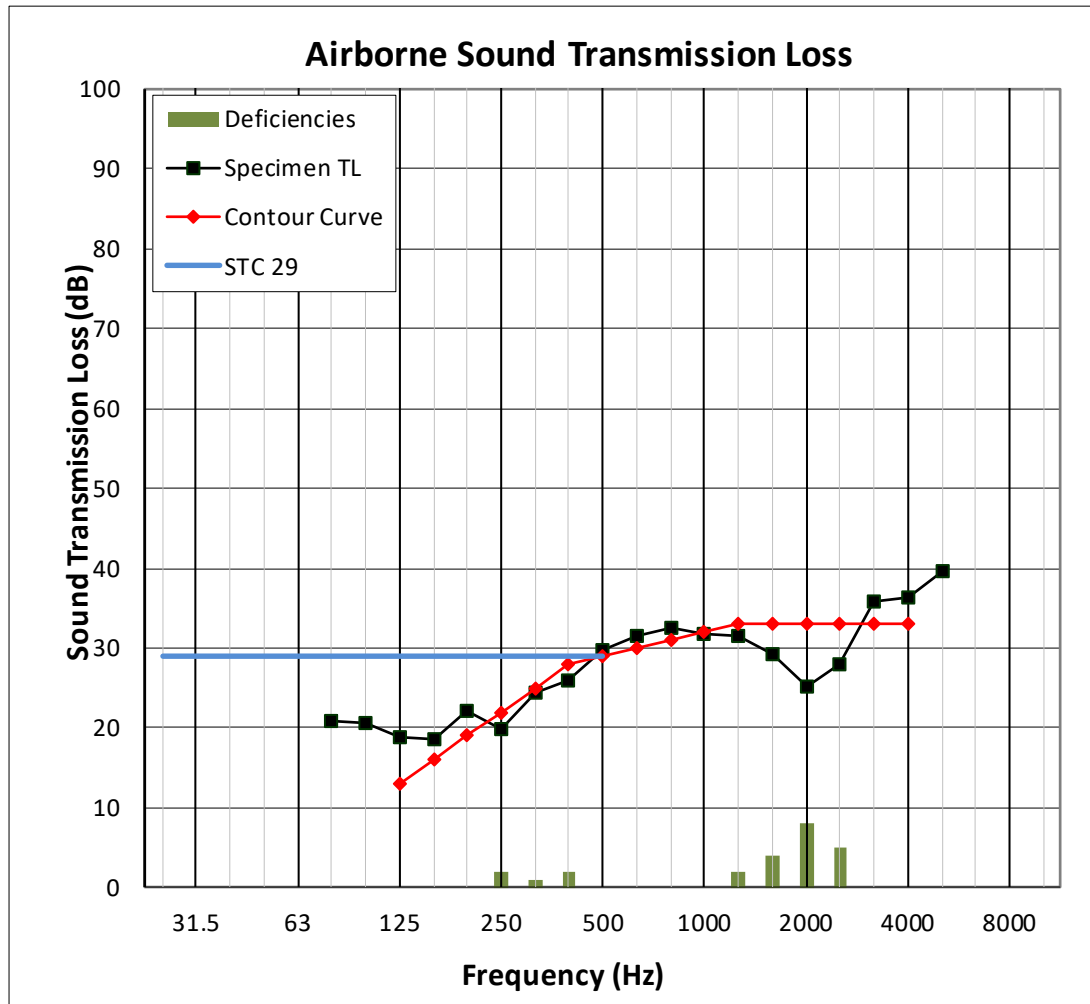
Date: 04/09/26

ASTM E90 AIRBORNE SOUND TRANSMISSION LOSS



Lab Code 600388-0

TEST DATE	03/30/26				
DATA FILE NO.	T2806.01A				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Smooth-Star/Fiber-classic Flush Glazed Shaker Door, side-hinged single door system with fiberglass skin and composite frame and 3/4 Lite with 1" IG (1/8" tempered, 5/16" air space, 1/8" tempered, 5/16" air space, 1/8" tempered), Inoperable, sealed with duct seal on both sides of leaf				
SPECIMEN AREA	2.38 m ²	RECEIVE TEMP.	20.1 °C	SOURCE TEMP.	20.1 °C
TECHNICIAN	Zachary P. G	RECEIVE HUMIDITY	46%	SOURCE HUMIDITY	45%



TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

**ASTM E90
AIRBORNE SOUND TRANSMISSION LOSS**


Lab Code 600388-0

TEST DATE	03/30/26				
DATA FILE NO.	T2806.01A1				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Smooth-Star/Fiber-classic Flush Glazed Shaker Door, side-hinged single door system with fiberglass skin and composite frame and 3/4 Lite with 1" IG (1/8" tempered, 5/16" air space, 1/8" tempered, 5/16" air space, 1/8" tempered), Operable with standard seal set				
SPECIMEN AREA	2.38 m ²	RECEIVE TEMP.	20.3 °C	SOURCE TEMP.	20.6 °C
TECHNICIAN	Zachary P. G	RECEIVE HUMIDITY	45%	SOURCE HUMIDITY	43%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m ²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% SAMPLING LIMIT (dB)	NUMBER OF DEFICIENCIES
80	36.9	5.3	107	84	21	3.51	-
100	38.6	6.4	106	81	21	3.29	-
125	33.5	6.0	107	84	19	2.21	0
160	37.4	5.8	108	85	19	1.70	0
200	36.0	6.4	108	82	22	0.78	0
250	31.7	6.6	105	80	20	1.34	2
315	27.0	6.4	105	76	24	0.68	1
400	22.5	6.6	104	74	25	0.76	3
500	18.9	6.2	104	71	29	0.96	0
630	17.1	6.4	104	70	30	1.16	0
800	17.2	6.7	103	69	29	0.48	2
1000	14.6	6.6	104	71	29	0.62	3
1250	11.4	7.1	102	68	29	0.53	4
1600	10.7	7.6	100	67	29	0.63	4
2000	9.5	8.1	102	71	25	0.61	8
2500	6.9	9.5	102	68	28	0.36	5
3150	6.8	11.4	101	61	33	0.31	0
4000	7.6	14.4	98	56	35	0.37	0
5000	8.3	18.1	99	52	37	0.39	-
STC RATING	29 (Sound Transmission Class)						
DEFICIENCIES	32 (Sum of Deficiencies)						
OITC RATING	25 (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

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

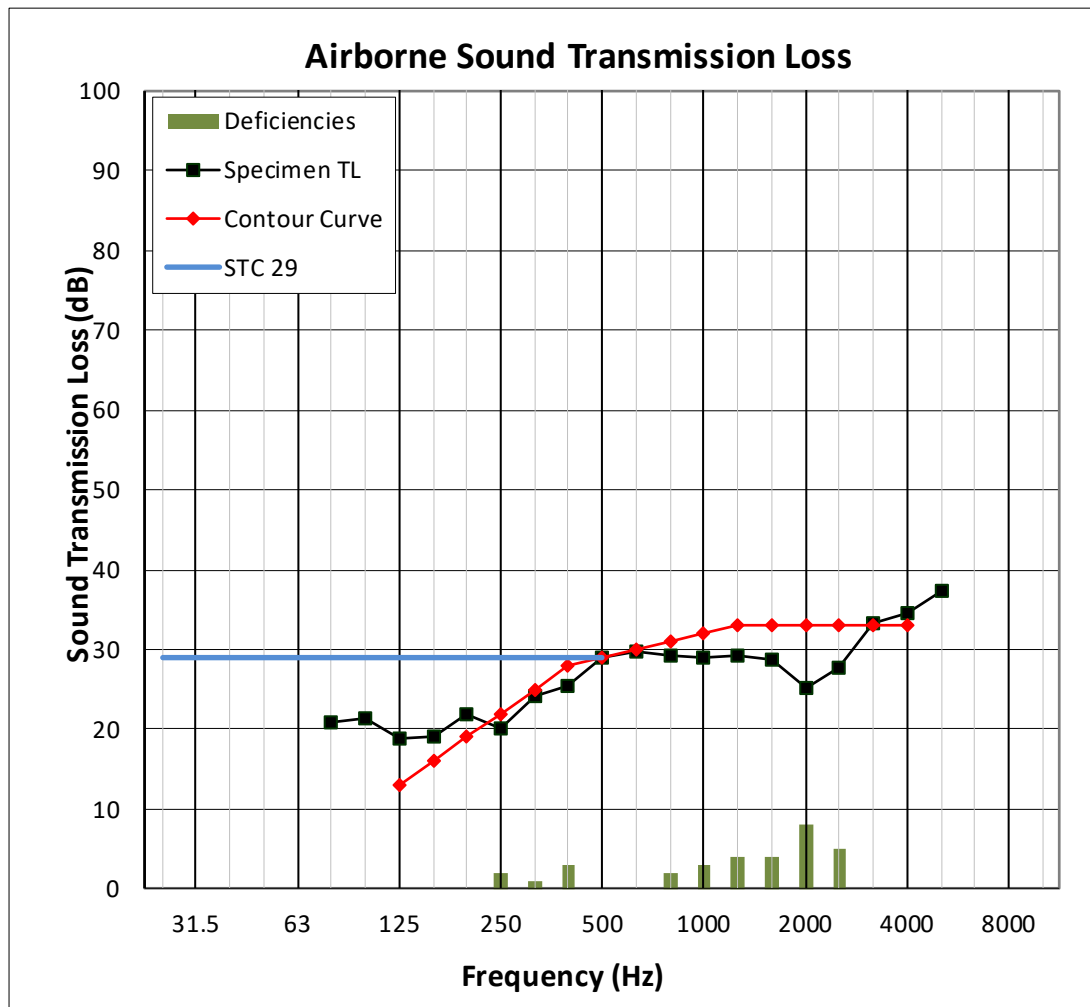
Date: 04/09/26

ASTM E90 AIRBORNE SOUND TRANSMISSION LOSS



Lab Code 600388-0

TEST DATE	03/30/26				
DATA FILE NO.	T2806.01A1				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Smooth-Star/Fiber-classic Flush Glazed Shaker Door, side-hinged single door system with fiberglass skin and composite frame and 3/4 Lite with 1" IG (1/8" tempered, 5/16" air space, 1/8" tempered, 5/16" air space, 1/8" tempered), Operable with standard seal set				
SPECIMEN AREA	2.38 m ²	RECEIVE TEMP.	20.3 °C	SOURCE TEMP.	20.6 °C
TECHNICIAN	Zachary P. G	RECEIVE HUMIDITY	45%	SOURCE HUMIDITY	43%



TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

ASTM E90 AIRBORNE SOUND TRANSMISSION LOSS



Lab Code 600388-0

TEST DATE	03/30/26				
DATA FILE NO.	T2806.01B				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Smooth-Star/Fiber-classic Flush Glazed Shaker Door, side-hinged single door system with fiberglass skin and wood frame and 3/4 Lite with 1" IG (1/8" tempered, 5/16" air space, 1/8" tempered, 5/16" air space, 1/8" tempered), Inoperable, sealed with duct seal on both sides of leaf				
SPECIMEN AREA	2.38 m ²	RECEIVE TEMP.	19.7 °C	SOURCE TEMP.	20.1 °C
TECHNICIAN	Zachary P. G	RECEIVE HUMIDITY	48%	SOURCE HUMIDITY	48%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m ²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% SAMPLING LIMIT (dB)	NUMBER OF DEFICIENCIES
80	35.4	5.5	107	84	20	4.16	-
100	36.6	6.9	106	81	21	2.93	-
125	34.7	6.1	107	85	18	2.29	0
160	38.8	6.2	109	86	18	1.49	0
200	36.9	6.6	108	81	23	0.70	0
250	32.5	6.7	105	80	20	0.91	2
315	28.7	6.5	105	76	24	0.99	1
400	26.0	6.5	104	74	25	0.67	3
500	23.9	6.2	104	70	29	1.13	0
630	21.3	6.3	104	68	32	1.15	0
800	22.5	6.6	103	66	32	0.37	0
1000	19.6	6.6	104	69	31	0.56	1
1250	16.2	6.9	103	67	31	0.54	2
1600	15.4	7.4	100	68	27	0.54	6
2000	14.3	8.0	102	71	25	0.61	8
2500	10.5	9.3	102	67	29	0.19	4
3150	8.2	11.1	101	54	40	0.22	0
4000	9.3	13.9	99	54	37	0.39	0
5000	8.6	17.6	99	50	40	0.42	-
STC RATING	29 (Sound Transmission Class)						
DEFICIENCIES	27 (Sum of Deficiencies)						
OITC RATING	25 (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

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

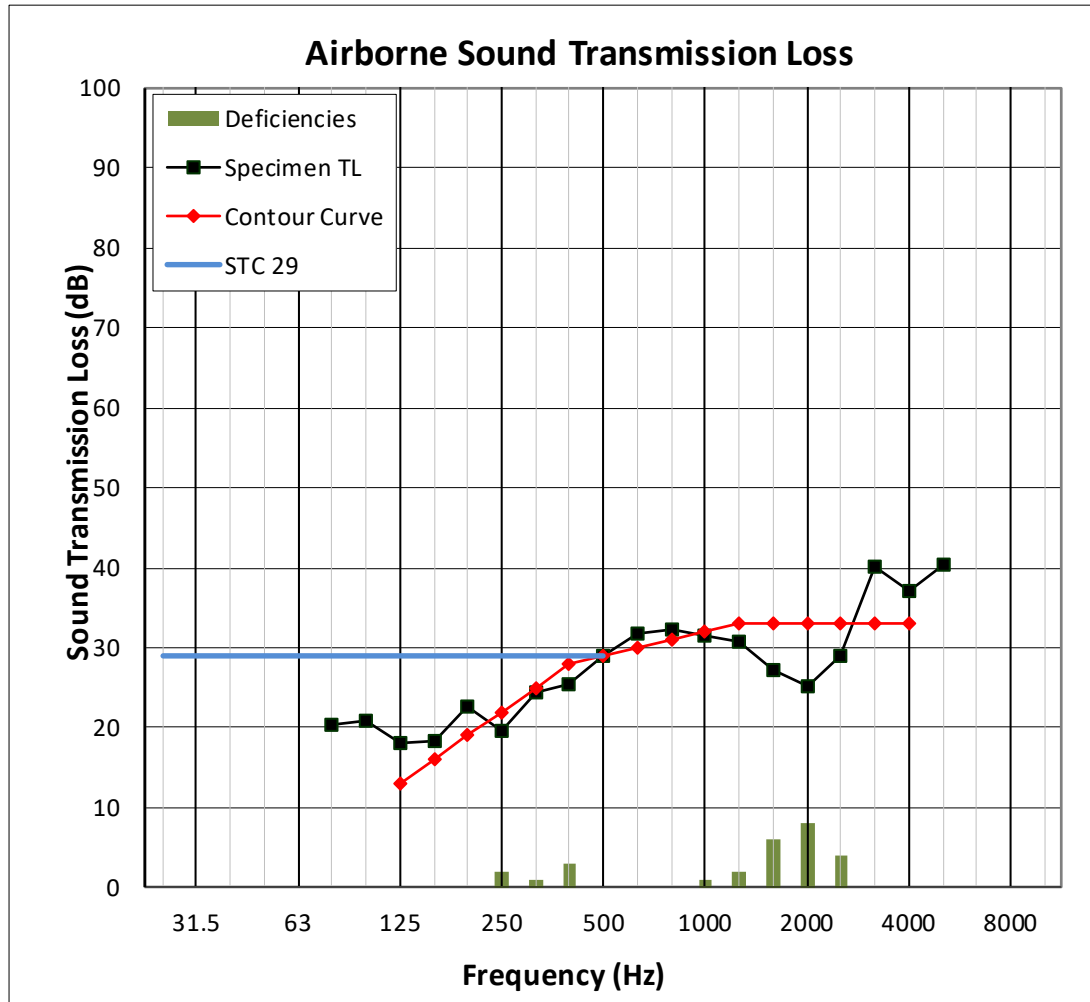
Date: 04/09/26

ASTM E90 AIRBORNE SOUND TRANSMISSION LOSS



Lab Code 600388-0

TEST DATE	03/30/26				
DATA FILE NO.	T2806.01B				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Smooth-Star/Fiber-classic Flush Glazed Shaker Door, side-hinged single door system with fiberglass skin and wood frame and 3/4 Lite with 1" IG (1/8" tempered, 5/16" air space, 1/8" tempered, 5/16" air space, 1/8" tempered), Inoperable, sealed with duct seal on both sides of leaf				
SPECIMEN AREA	2.38 m ²	RECEIVE TEMP.	19.7 °C	SOURCE TEMP.	20.1 °C
TECHNICIAN	Zachary P. G	RECEIVE HUMIDITY	48%	SOURCE HUMIDITY	48%



TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

**ASTM E90
AIRBORNE SOUND TRANSMISSION LOSS**


Lab Code 600388-0

TEST DATE	03/30/26				
DATA FILE NO.	T2806.01B1				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Smooth-Star/Fiber-classic Flush Glazed Shaker Door, side-hinged single door system with fiberglass skin and wood frame and 3/4 Lite with 1" IG (1/8" tempered, 5/16" air space, 1/8" tempered, 5/16" air space, 1/8" tempered), Operable with standard seal set				
SPECIMEN AREA	2.38 m ²	RECEIVE TEMP.	19.7 °C	SOURCE TEMP.	20.1 °C
TECHNICIAN	Zachary P. G	RECEIVE HUMIDITY	48%	SOURCE HUMIDITY	48%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m ²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% SAMPLING LIMIT (dB)	NUMBER OF DEFICIENCIES
80	35.7	5.2	107	83	21	3.30	-
100	35.8	6.4	106	81	21	2.74	-
125	34.0	6.2	107	85	18	2.17	0
160	38.5	5.9	109	86	19	1.53	0
200	36.6	6.6	108	82	22	0.71	0
250	31.7	6.6	105	81	20	0.77	2
315	27.3	6.6	105	76	24	0.84	1
400	23.8	6.5	104	74	25	0.75	3
500	21.1	6.3	104	71	29	1.30	0
630	19.0	6.4	104	69	31	1.17	0
800	19.5	6.7	103	69	30	0.47	1
1000	16.2	6.8	104	71	29	0.40	3
1250	13.9	7.1	102	69	29	0.49	4
1600	12.7	7.6	100	69	27	0.50	6
2000	10.7	8.2	102	71	25	0.65	8
2500	8.0	9.5	102	67	29	0.21	4
3150	7.3	11.3	101	57	37	0.23	0
4000	8.0	14.2	99	55	36	0.43	0
5000	8.4	17.8	99	52	38	0.41	-
STC RATING	29 (Sound Transmission Class)						
DEFICIENCIES	32 (Sum of Deficiencies)						
OITC RATING	25 (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

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

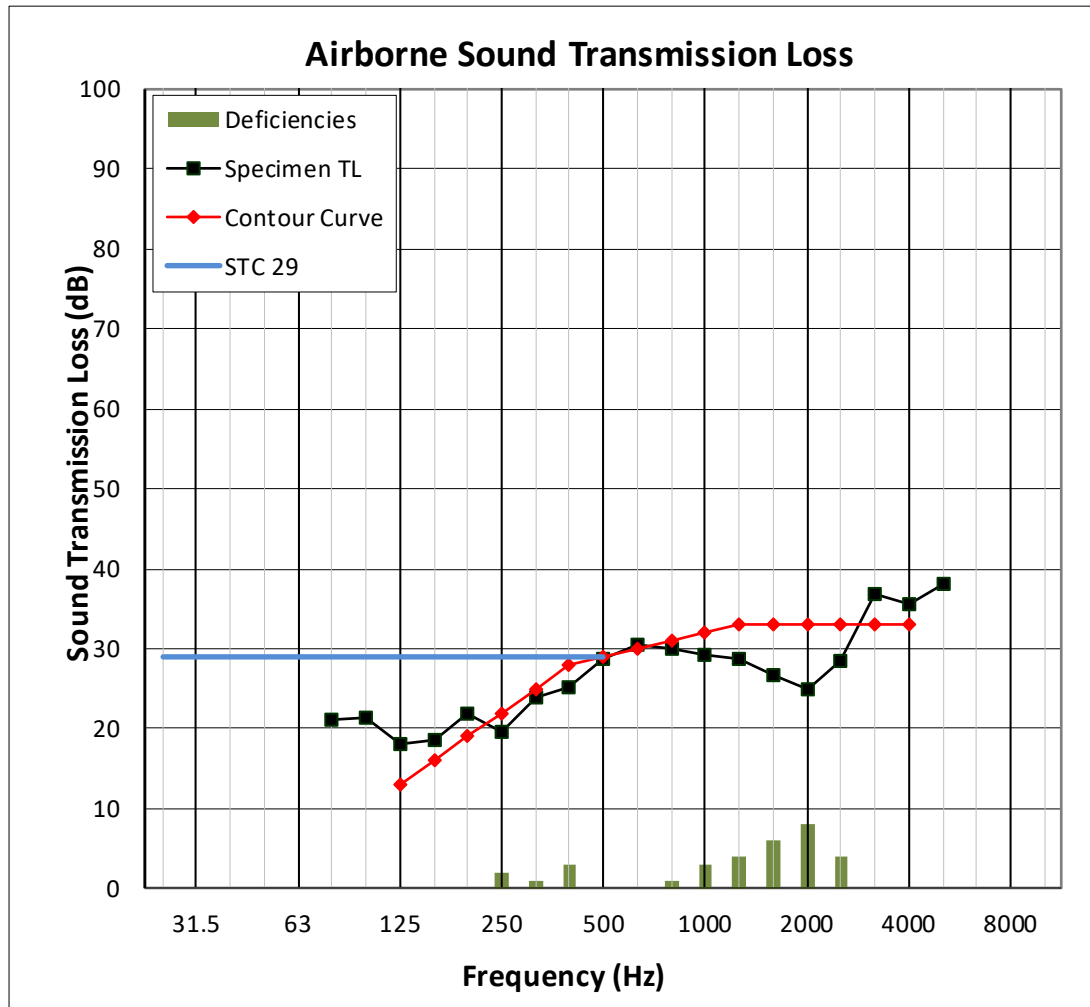
Date: 04/09/26

ASTM E90 AIRBORNE SOUND TRANSMISSION LOSS



Lab Code 600388-0

TEST DATE	03/30/26				
DATA FILE NO.	T2806.01B1				
CLIENT	Therma-Tru Corporation				
DESCRIPTION	Series/Model: Smooth-Star/Fiber-classic Flush Glazed Shaker Door, side-hinged single door system with fiberglass skin and wood frame and 3/4 Lite with 1" IG (1/8" tempered, 5/16" air space, 1/8" tempered, 5/16" air space, 1/8" tempered), Operable with standard seal set				
SPECIMEN AREA	2.38 m ²	RECEIVE TEMP.	19.7 °C	SOURCE TEMP.	20.1 °C
TECHNICIAN	Zachary P. G	RECEIVE HUMIDITY	48%	SOURCE HUMIDITY	48%



TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

SECTION 11

PHOTOGRAPHS



Photo No. 1

Receive Room View of Installed Inoperable Test Specimen



Photo No. 2

Source Room View of Installed Inoperable Test Specimen

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26



Photo No. 3

Receive Room View of Installed Operable Test Specimen

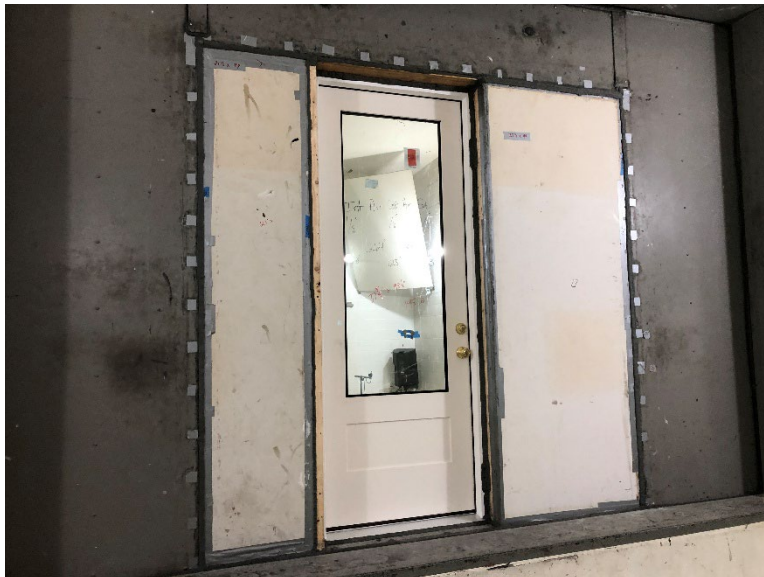


Photo No. 4

Source Room View of Installed Operable Test Specimen



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR THERMA-TRU CORPORATION

Report No.: T2806.01-113-11-R0

Date: 04/09/26

SECTION 12

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	04/09/26	N/A	Original Report Issue