

ASTM E 90 SOUND TRANSMISSION LOSS TEST REPORT

Rendered to:

UNITED STATES ALUMINUM CORPORATION-CAROLINA

SERIES/MODEL: BT 601

TYPE: Two-Lite Storefront System

	Summary of Test Results		
Data File No.	Glazing(Nominal Dimensions)	STC	OITC
99331.01	1-1/4" IG (1/4" annealed exterior, 1/2" air space, 1/2" laminated interior), Glass temperature 75°F	38	33

Reference should be made to Architectural Testing, Inc. Report No. 99331.01-113-11 for complete test specimen description. The complete test results are listed in Appendix B.

130 Derry Court York, PA 17406-8405 phone: 717-764-7700 fax: 717-764-4129 www.archtest.com



ACOUSTICAL PERFORMANCE TEST REPORT

Rendered to:

UNITED STATES ALUMINUM CORPORATION-CAROLINA 720 Cel-River Road Rock Hill, South Carolina 29730

Report No: 99331.01-113-11
Test Date: 05/24/10
Report Date: 06/03/10
Expiration Date: 05/24/14

Test Sample Identification:

Series/Model: BT 601

Type: Two-Lite Storefront System

Overall Size: 78-3/4" by 78-3/4"

Glazing Option (Nominal Dimensions): 1-1/4" IG (1/4" Annealed Exterior, 1/2" Air

Space, 1/2" Laminated Interior), Glass

Temperature 75°F

Project Scope: Architectural Testing, Inc. was contracted by United States Aluminum Corporation-Carolina to conduct sound transmission loss tests on a Series/Model BT 601, two-lite storefront system. A summary of the results is listed in the Test Results section and the complete test data is included as Appendix B of this report. The sample was provided by the client.

Test Methods: The acoustical tests were conducted in accordance with the following:

ASTM E 90-09, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.

ASTM E 413-04, Classification for Rating Sound Insulation.

ASTM E 1332-90 (Re-approved 2003), Standard Classification for Determination of Outdoor-Indoor Transmission Class.

ASTM E 2235-04, Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods.



Test Equipment: The equipment used to conduct these tests meets the requirements of ASTM E 90. The microphones were calibrated before conducting sound transmission loss tests. The test equipment and test chamber descriptions are listed in Appendix A.

Sample Installation: Sound transmission loss tests were initially performed on a filler wall that was designed to test 40" by 80" and 80" by 80" specimens. The filler wall achieved an STC rating of 67.

The 80" by 80" plug was removed from the filler wall assembly. The storefront system was placed on a foam isolation pad in the test opening. Duct seal was used to seal the perimeter of the test specimen to the test opening on both sides. The interior side of the storefront frame, when installed, was approximately 1/4" from being flush with the receiving room side of the filler wall. A stethoscope was used to check for any abnormal air leaks around the test specimen prior to testing.

Test Procedure: The sound transmission loss test consisted of the following measurements: One background noise sound pressure level and five sound absorption measurements were conducted at each of the five microphone positions. Two sound pressure level measurements were made simultaneously in both rooms, at each of the five microphone positions. The air temperature and relative humidity conditions were monitored and recorded during the background, absorption, source, and receive room measurements.

Sample Descriptions:

Frame Construction:

		Frame
Siz	e	78-3/4" by 78-3/4"
Th	ickness	5"
Co	rners	Butted
	Fasteners	Screws
	Seal Method	Sealant
Ma	terial	Aluminum
	Thermal Break Material	Urethane
	Reinforcement	N/A
Da	ylight Opening Size (x2)	35-3/8" by 72-3/4"

N/A-Non Applicable



Sample Descriptions: (Continued)

Glazing:

Measured Overall Insulation Glass Unit Thickness	1.212"
Spacer Type	Aluminum

	Exterior Sheet	Gap	Interior Sheet
Measured Thickness	0.221"	0.519"	0.221" - 0.030" - 0.221"
Muntin Pattern	N/A	N/A	N/A
Material	Annealed	Air*	Laminated
Laminate Material	N/A	N/A	PVB

Glazing Method	Interior
Glazing Material	Closed cell foam
Glazing Bead Material	Flexible wedge gasket

Components:

	TYPE	QUANTITY	LOCATION
We	eatherstrip		
	No weatherstrip		
Ha	rdware		
	No hardware		
Dra	ninage		
,	No drainage		

^{* -} Stated per Client/Manufacturer, N/A-Non Applicable



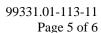
Comments: The weight of the test sample was 438 lbs. The design drawings (included in Appendix C) supplied by the client, accurately describe the Series/Model BT 601, two-lite storefront system. The dimensions on the drawings that are circled and/or checked were verified against the test specimen. The storefront system was disassembled, and the components will be retained by Architectural Testing for four years. Photographs of the test specimen are included in Appendix D.

Test Results: The STC (Sound Transmission Class) rating was calculated in accordance with ASTM E 413. The OITC (Outdoor-Indoor Transmission Class) was calculated in accordance with ASTM E 1332. A summary of the sound transmission loss test results on the Series/Model BT 601, two-lite storefront system is listed below.

	Summary of Test Results		
Data File No.	Glazing(Nominal Dimensions)	STC	OITC
99331.01	1-1/4" IG (1/4" annealed exterior, 1/2" air space, 1/2" laminated interior), Glass temperature 75°F	38	33

Note: Transmission loss coefficient differences less than 6 indicate the lower limit of the transmission loss for this specimen. On each data sheet listed in Appendix B, the cells are highlighted red for the transmission loss values limited in this way. Due to the calculations and sample size, transmission loss coefficient differences between 6 and 15 indicate there has been a filler wall correction applied. On each data sheet listed in Appendix B, cells highlighted in green indicate transmission loss values affected in this way.

The complete test results are listed in Appendix B. Flanking limit tests and reference specimen tests are available upon request.





Detailed drawings, data sheets, representative samples of test specimens, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing for a period of four years from the original test date. At the end of this retention period, such materials shall be discarded without notice and the service life of this report will expire. Results obtained are tested values and were secured by using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing.

For ARCHITECTURAL TESTING, INC:

Kurt A. Golden
Senior Technician - Acoustical Testing

Todd D. Kister
Laboratory Supervisor - Acoustical Testing

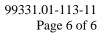
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Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Equipment description (1) Appendix-B: Complete test results (2) Appendix-C: Design drawings (4) Appendix-D: Photographs (1)



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Revision Log

<u>Rev. #</u>	Date	Page(s)	Revision(s)
0	06/03/10	N/A	Original Report Issue



$\mathbf{Appendix}\;\mathbf{A}$

Instrumentation:

Instrument	Manufacturer	Model	Description	ATI Number	Last Calibrated
Analyzer	Agilent Technologies	35670A	Dynamic signal analyzer	004112	06/08/09*
Data Acquisition Unit	Agilent Technologies	34970A	Data Acquisition Unit	62211	07/29/09
Receive Room Microphone	G.R.A.S.	40AR	1/2", Pressure type, condenser microphone	Y003246	08/18/09
Source Room Microphone	G.R.A.S.	40AR	1/2", Pressure type, condenser microphone	Y003245	08/18/09
Receive Room Preamp	G.R.A.S.	26AK	1/2" Preamplifier	Y003249	08/08/09
Source Room Preamp	G.R.A.S.	26AK	1/2" Preamplifier	Y003248	08/18/09
Microphone Calibrator	Bruel & Kjaer	4228	Pistonphone calibrator	Y002816	02/18/10
Noise Source	Delta Electronics	SNG-1	Two, Uncorrelated "Pink" noise signals	Y002181	N/A
Equalizer	Rane	RPE228	Programmable EQ	Y002180	N/A
Power Amplifiers	Crown	XTi 2000	Two, Amplifiers	005769 005770	N/A
Receive Room Loudspeakers	Renkus-Heinz	Trap Jr/9"	Two, Loudspeakers	Y001784 Y001785	N/A
Source Room Loudspeakers	Renkus-Heinz	Trap Jr/9"	Two, Loudspeakers	Y002649 Y002650	N/A
Receiving Room Environmental Indicator	Vaisala	HMW60Y	Temperature / Humidity Indicator	Y002652	08/23/09
Source Room Environmental Indicator	Vaisala	HMW60Y	Temperature / Humidity Indicator	005066	08/18/09
Weather Station	Davis Instruments	6150C	Laboratory Barometric Pressure, Temperature, and Humidity	Y003257	04/08/10

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

Test Chamber:

	Volume	Description
Receiving Room	234 m³ (8291.3 ft³)	Rotating vane and stationary diffusers Temperature and humidity controlled Isolation pads under the floor
Source Room	206.6 m ³ (7296.3 ft ³)	Stationary diffusers only Temperature and humidity controlled

	Maximum Size	Description
TL Test Opening	4.27 m (14 ft) wide by 3.05 m (10 ft) high	Vibration break between source and receive rooms

N/A-Non Applicable



Appendix B

Complete Test Results



SOUND TRANSMISSION LOSS

ASTM E 90

Architectural Testing

ATI No. 99331.01 **Date** 05/24/10

Client United States Aluminum Corporation-Carolina

Specimen Series/Model: BT 601, two-lite storefront system with 1-1/4" IG (1/4" annealed exterior, 1/2"

air space, 1/2" laminated interior), Glass temperature 75°F

Specimen Area 4.00 Square Meters Filler Area 9.00 Square Meters

Operator Kurt Golden

	Bkgrd	Absorp	Source	Receive	Filler	Specimen
Temp C	24.4	24.3	23.3	23.5	23.6	23.9
RH %	40.6	39.6	41.7	41.7	43.6	40.9

	Bkgrd	Absorp	Source	Receive	Filler	Specimen	95%	No. of	Trans
Freq	SPL	(Square	SPL	SPL	TL	TL	Conf	Defici-	Coef
(Hz)	(dB)	Meters)	(dB)	(dB)	(dB)	(dB)	Limit	encies	Diff
80	41.6	4.8	89.3	68.5	31.0	21	2.19	0	7.5
100	41.9	5.5	96.5	67.1	35.2	29	3.32	0	3.7
125	41.5	5.1	101.7	74.2	43.7	27	1.88	0	13.8
160	46.1	4.9	104.7	74.3	46.8	30	0.92	0	13.7
200	46.0	4.9	108.2	81.4	55.3	26	1.02	2	25.9
250	45.0	5.1	107.4	78.3	60.2	28	1.25	3	28.7
315	43.6	5.4	103.8	71.7	62.7	31	0.81	3	28.3
400	43.4	5.6	103.0	66.2	62.8	35	0.66	2	23.9
500	42.7	5.5	103.2	64.1	63.2	38	0.40	0	22.0
630	38.4	5.4	107.3	68.4	67.1	38	0.29	1	26.0
800	39.7	5.6	107.8	68.2	67.8	38	0.30	2	26.0
1000	37.3	5.9	107.1	66.7	70.3	39	0.42	2	28.1
1250	36.8	6.6	107.8	66.0	72.1	40	0.24	2	29.0
1600	34.7	6.9	113.1	70.8	75.2	40	0.33	2	31.8
2000	25.7	7.1	104.6	63.5	75.8	39	0.19	3	33.7
2500	18.1	8.3	101.9	58.3	77.1	40	0.29	2	33.2
3150	15.5	10.1	102.8	54.4	78.5	44	0.29	0	30.6
4000	12.6	12.2	100.9	48.6	81.8	47	0.43	0	30.8
5000	10.2	16.5	97.4	40.8	85.1	50	0.41	0	31.2

STC Rating = 38 (Sound Transmission Class)

Deficiencies = 24 (Number of deficiencies versus contour curve)

OITC Rating = 33 (Outdoor/Indoor Transmission Class)

Notes:

- 1) The acoustical chambers are qualified for measurements down to 80 hertz. Data reported below 80 hertz is for reference only.
- 2) Transmission loss coefficient differences less than 6 indicate the lower limit of the transmission loss for this specimen. These cells are highlighted red.
- 3) Transmission loss coefficient differences between 6 and 15 indicate there has been a filler wall correction applied. These cells are highlighted green.
- 4) Receive Room levels less than 5dB above the Background levels are highlighted in yellow.



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Architectural Testing

ATI No. 99331.01 **Date** 05/24/10

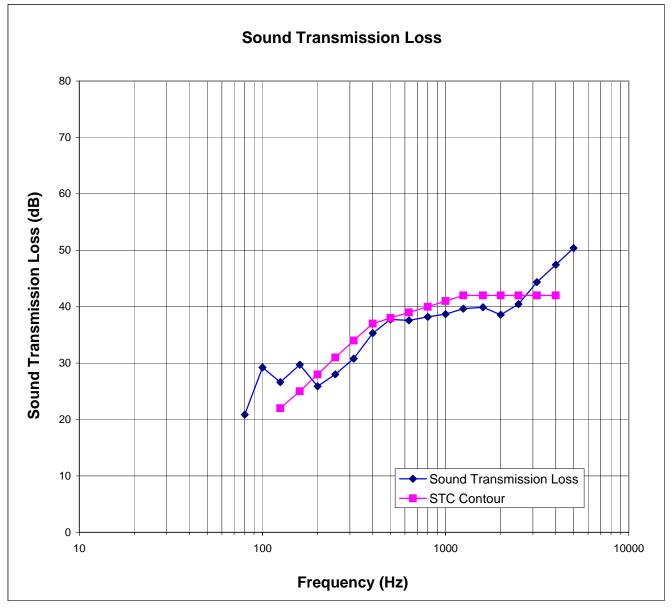
Client United States Aluminum Corporation-Carolina

Specimen Series/Model: BT 601, two-lite storefront system with 1-1/4" IG (1/4" annealed exterior, 1/2"

air space, 1/2" laminated interior), Glass temperature 75°F

Specimen Area 4.00 Square Meters **Filler Area** 9.00 Square Meters

Operator Kurt Golden





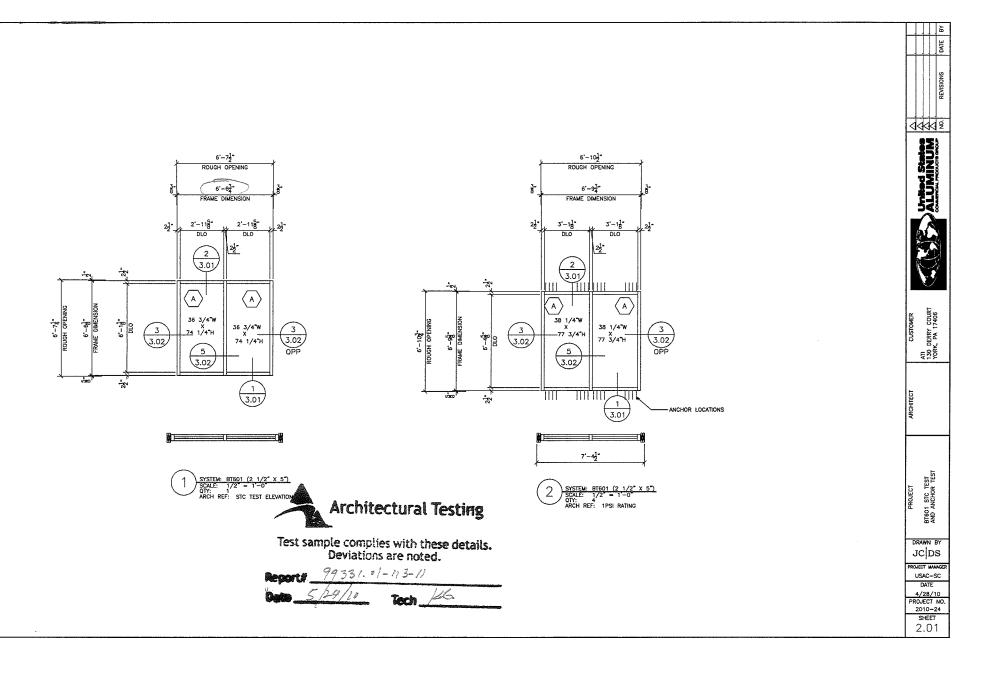
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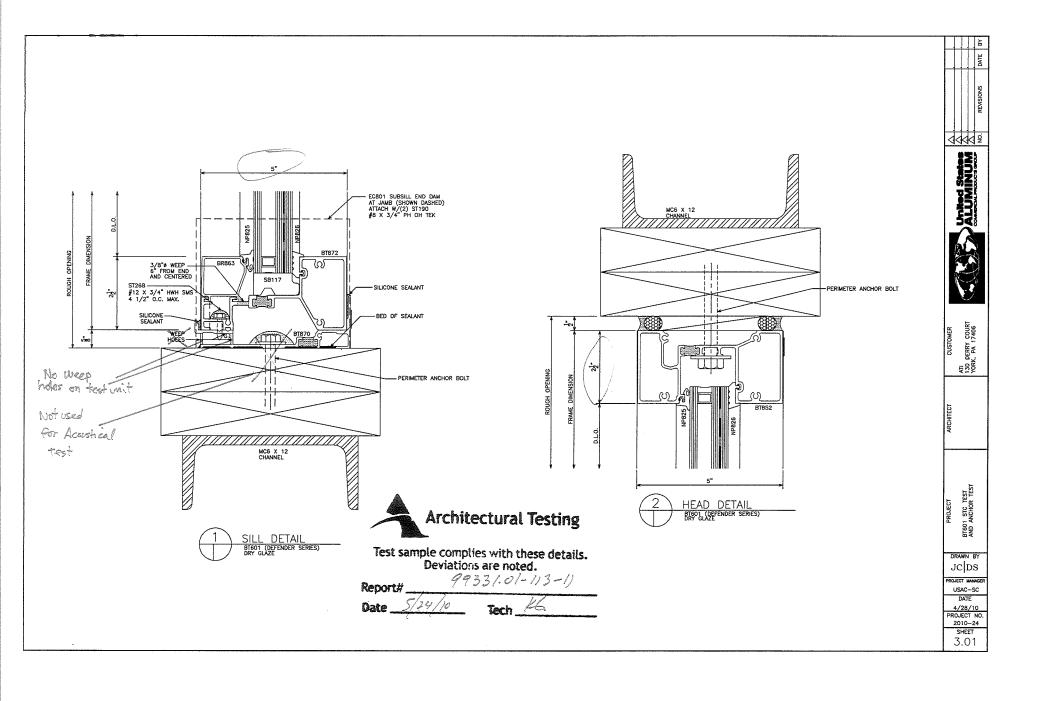


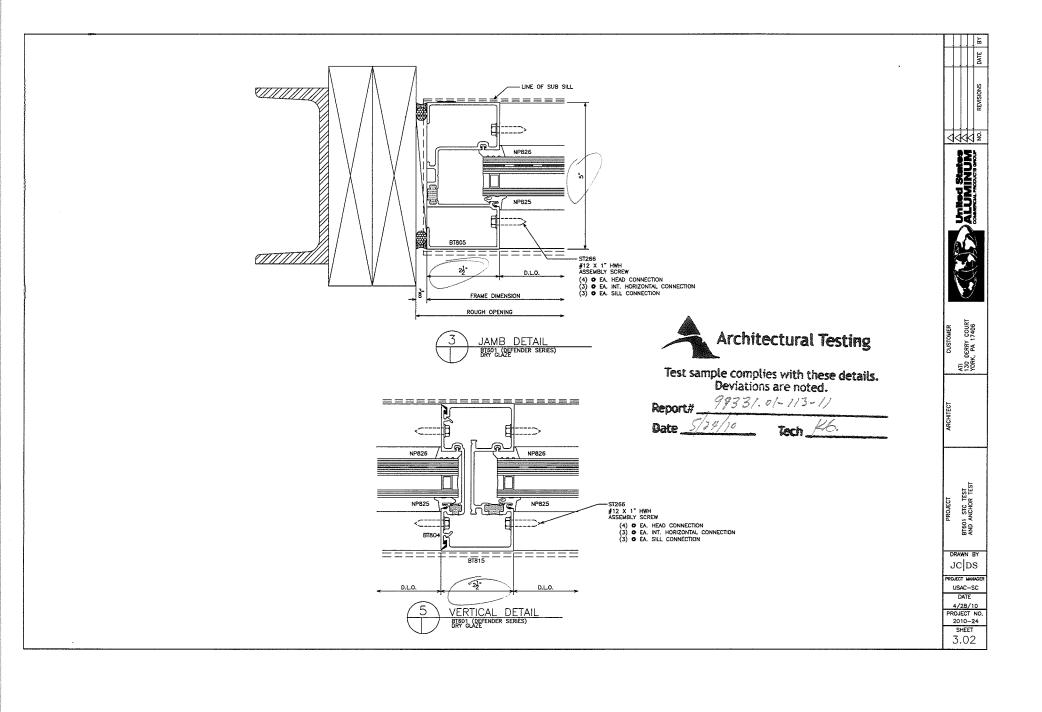
Appendix C

Design Drawings

SYMBOLS	GLASS SIZES	ABBREVIATIONS	SPECIAL NOTES	GENERAL NOTES		
SYMBOL LISED ON ELEVADOMS	See installation instructions for Glass Size formulas A copy of these instructions are available online (www.usalum.com) (Note: See shop drawings to determine if deviations occur)	D.D. = OPENING DIMENSION R.O. = ROUGH OPENING H.SO = HINGE RIGHT SWING OUT F.D. = FRAME DIMENSION R.L. = RAFTER LENGTH REF. = REFERENCE DIMENSION	MATERIAL TO BE 6063-TE AT VERTICALS ALL OTHER MATERIAL TO BE 6063-T5 UNLESS HOTED OTHERWISE SELECTION SEALANTS AT CALLY JOINTS	 IMPOUNDES: THOSE DRAWNES REPRESENT AN INTERPRETATION OF ARCHITECTURAL INFORMATION MADE ANALASE, TO MATTIO STATES ALMININAL COPPORTION (TUSIC), MAD THE PREJENCE OF JUSY, STRISE WHICH THE PROTECT, MUSE WASTE ON EPIPERSATIONION, OF WARMANT AS TO THE PEDITAMANEL OF COMPLETIONESS OF THE ARCHITECTURAL DETAILS SUPROMADION ITS STITLES AND DOES NOT ACCOUNT FOR ARCHITECTURAL SUPROMADION OF STRITES AND THE ARCHITECTURAL PROFESSION OF THE PROTECTION OF STRITES AND THE ARCHITECTURAL PROFESSION OF THE PROTECTION OF STRITES AND THE ARCHITECTURAL PROFESSION OF THE PROTECTION OF THE ARCHITECTURAL THE ARCHITECTURAL PROFESSION OF THE PROTECTION OF THE ARCHITECTURAL THE ARCHITECTURAL PROFESSION OF THE PROFESSION	DATE	
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Appendix D Photographs



Receive Room View of Installed Specimen



Source Room View of Installed Specimen