

ASTM F 1642-04/GSA TS01 TEST REPORT

Rendered to:

INTERNATIONAL ARCHITECTURAL PRODUCTS, INC. DBA: UNITED STATES ALUMINUM

SERIES/MODEL: BT601
PRODUCT TYPE: Aluminum Storefront with Vertical Mullion

	Summary of Results			
Title	Test Specimen #1	Test Specimen #2	Test Specimen #3	
ASTM Hazard Rating	Very Low Hazard	Very Low Hazard	Minimal Hazard	
GSA Performance Condition	3b	3b	2	
Average Peak Blast Pressure	7.0 psi	6.8 psi	6.9 psi	
Average Positive Phase Impulse	44 psi-msec	45 psi-msec	44 psi-msec	
Average Positive Phase Duration	13 msec	14 msec	13 msec	

This report contains in its entirety:

Cover Page: 1 page Report Body: 8 pages Test Facility: 1 page

Pressure-Time Plots: 6 pages

Photographs: 6 pages Drawings: 5 pages

Reference should be made to Architectural Testing, Inc. Report No. A1225.01-122-12 for complete test specimen description and data.

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



ASTM F 1642-04/GSA TS01 TEST REPORT

Rendered to:

INTERNATIONAL ARCHITECTURAL PRODUCTS, INC.
DBA: UNITED STATES ALUMINUM
720 Cel-River Road
Rock Hill, South Carolina 29730

Report No.: A1225.01-122-12
Revision 1: 06/09/10
Test Date: 05/28/10
Report Date: 06/04/10
Expiration Date: 05/28/14

Project Summary: Architectural Testing, Inc. was contracted by International Architectural Products, Inc., DBA: United States Aluminum to perform testing on three Series/Model BT601, aluminum storefronts with vertical mullions. Test specimen descriptions and results are reported herein. The samples were provided by the client.

Test Specification: The test specimens were evaluated in accordance with:

ASTM F 1642-04, Standard Test Method for Glazing and Glazing Systems Subject to Airblast Loading.

GSA-TS01-2003, US General Services Administration Standard Test Method for Glazing and Window Systems Subject to Dynamic Overpressure Loadings.

Test Facility: Architectural Testing, Inc.'s shock tube is housed in a 10,000 square foot state-of-the-art test facility located in York, Pennsylvania. Blast loadings are produced on the specimen to simulate the effects of a high explosive charge at a specified standoff distance. Shock waves are generated by the sudden rupturing of a thin aluminum membrane. The shock wave expands as it travels down the tube, and impacts the target with a specific positive pressure and impulse. A photograph of the shock tube is provided in Figure #1 of Appendix A.

Data Acquisition: In accordance with ASTM F 1642-04 and GSA TS01, four reflective pressure transducers are utilized to record data at a 1MHz sample rate. Two reflective pressure transducers are located on the specimen holder at the top and right side (when viewed from the interior). A third pressure transducer is located on the shell to the exterior of the specimen, and a fourth is located in the witness chamber, directly to the interior of the specimen holder. A sketch of the specimen holder and corresponding reflective pressure sensor locations are provided in Figure #2 of Appendix A.

Drawing Reference: The attached drawings have been verified by Architectural Testing, Inc. and are representative of the samples tested. Drawings are provided in Appendix D.

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Test Specimen Description:

The following descriptions apply to all specimens.

Test Series/Model: BT601

Product Type: Aluminum Storefront with Vertical Mullion

Overall Size: 81-3/4" wide by 81-5/8" high

Fixed Daylight Opening: 37-1/8" wide by 76-5/8" high

Overall Area: 46.3 ft²

Reinforcement: No reinforcement was utilized.

Finish: Painted aluminum

Glazing Details: The window was glazed with a 1-1/4" thick insulating glass unit constructed of an exterior sheet of 1/4" thick annealed glass and an interior sheet of 1/2" thick laminated glass with a 1/2" thick aluminum spacer system. The laminated glass was constructed of two sheets of 1/4" thick annealed glass and a 0.030" thick PVB interlayer. The glass was set from the exterior against a neoprene gasket and secured with a snap-fit glazing clip at the sill and a perimeter rubber wedge gasket. Glazing bite measured 5/8".

Frame Construction: Frame members were constructed of poured-in-place and debridged thermally improved aluminum with butted corners. The corners were fastened with three $\#12 \times 1$ " long screws at the jamb/sill connection and four $\#12 \times 1$ " long screws at the jamb/head connection. The vertical mullion was attached to the frame with three $\#12 \times 1$ " long screws at the vertical/sill connection and four $\#12 \times 1$ " long screws at the vertical/head connection.

Hardware: No hardware utilized.

Installation: The frame was anchored to a double 2x6 Spruce-Pine-Fir test buck using 1/4" x 4" long Spax® hex head lag screws. Screws were grouped near the jambs and vertical mullion at the head and sill only. Four anchors were grouped near each jamb vertical, spaced 3-1/2" from the end and 3" on center. Four anchors were also grouped on either side of the vertical mullion, located 1" away from the mullion and spaced at 3" on center.

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Test Results: The results are tabulated as follows:

Test Specimen #1:

<u>Description</u>	Results
Ambient Temperature	75°F
Glazing Temperature	75°F
Peak Positive Pressure	
Top Pressure	7.1 psi
Right Pressure	7.3 psi
Shell Pressure	6.6 psi
Average Pressure	7.0 psi
Positive Phase Duration	
Top Duration	14 msec
Right Duration	13 msec
Shell Duration	13 msec
Average Duration	13 msec
Positive Phase Impulse	
Top Impulse	44 psi-msec
Right Impulse	45 psi-msec
Shell Impulse	44 psi-msec
Average Impulse	44 psi-msec

- No pressure rise was measured on the protected side of the specimen.
- The exterior lite fractured and fell to the unprotected side of the window. Both layers of the interior laminated lite were observed to fracture. The PVB laminate tore horizontally near the center of both lites. Glazing pull-out measured approximately 47" at the left jamb and 42" on the left side vertical. Total pull-out was 39%.
- Fragments of glass were located 42" behind the 1m line. No impacts or punctures were observed on the vertical witness panel.

ASTM Hazard Rating: Very Low Hazard

GSA Performance Condition: 3b

Pressure-time plots are presented in Appendix B. Pre-test and post-test photographs are provided in Appendix C.



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Test Results: (Continued)

Test Specimen #2:

<u>Description</u>	Results
Ambient Temperature	77 ° F
Glazing Temperature	76°F
Peak Positive Pressure	
Top Pressure	6.9 psi
Right Pressure	7.2 psi
Shell Pressure	6.4 psi
Average Pressure	6.8 psi
Positive Phase Duration	
Top Duration	13 msec
Right Duration	14 msec
Shell Duration	14 msec
Average Duration	14 msec
Positive Phase Impulse	
Top Impulse	45 psi-msec
Right Impulse	44 psi-msec
Shell Impulse	45 psi-msec
-	-
Average Impulse	45 psi-msec

- No pressure rise was measured on the protected side of the specimen.
- The exterior lite fractured and fell to the unprotected side of the window. Both layers of the interior laminated lite were observed to fracture. The PVB laminate tore horizontally near the center of the left side lite. Glazing pull-out measured approximately 53" at the left jamb, 46" on the left side vertical, 23" on the right side vertical and 34" on the right jamb. Total pull-out was 43%.
- Fragments of glass were located 10" in front of the vertical witness panel. No impacts or punctures were observed on the vertical witness panel.

ASTM Hazard Rating: Very Low Hazard

GSA Performance Condition: 3b

Pressure-time plots are presented in Appendix B. Pre-test and post-test photographs are provided in Appendix C.

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Revision 1: 06/09/10

Test Results: (Continued)

Test Specimen #3:

<u>Description</u>	Results
Ambient Temperature	76°F
Glazing Temperature	75°F
Peak Positive Pressure	
Top Pressure	6.9 psi
Right Pressure	7.3 psi
Shell Pressure	6.6 psi
Average Pressure	6.9 psi
Positive Phase Duration	
Top Duration	13 msec
Right Duration	14 msec
Shell Duration	13 msec
Average Duration	13 msec
Positive Phase Impulse	
Top Impulse	44 psi-msec
Right Impulse	45 psi-msec
Shell Impulse	44 psi-msec
<u> </u>	-
Average Impulse	44 psi-msec

- No pressure rise was measured on the protected side of the specimen.
- The exterior lite fractured and fell to the unprotected side of the window. Both layers of the interior laminated lite were observed to fracture. Pull-out measured 24" at the left jamb, 17" on the left side vertical and 32" at the right jamb. Total pull-out was 18%.
- A dusting of glass was deposited on the floor of the witness area, with no impacts or punctures observed in the witness panel.

ASTM Hazard Rating: Minimal Hazard

GSA Performance Condition: 2

Pressure-time plots are presented in Appendix B. Pre-test and post-test photographs are provided in Appendix C.



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Revision 1: 06/09/10

List of Official Observers:

<u>Name</u> <u>Company</u>

Chris Gall International Architectural Products, Inc.

DBA: United States Aluminum

John S. Stacey, P.E. Architectural Testing, Inc.

Jeff Lander Architectural Testing, Inc.

Brady McNaughton Architectural Testing, Inc.

Detailed drawings, data sheets, representative samples of test specimens, a copy of this report, and other pertinent project documentation will be retained by Architectural Testing, Inc. 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 specimens tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Donaldo W. McNarrakton

Brady W. McNaughton Project Engineer John S. Stacey, P.E. Senior Project Engineer

BWM:ddr/cmd

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

Appendix-A: Test Facility (1) Appendix-B: Pressure-Time Plots (6)

Appendix-C: Photographs (6)

Appendix-D: Drawings (5)



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Revision 1: 06/09/10

Revision Log

<u>Rev. #</u>	Date	Page(s)	Revision(s)
0	06/04/10	N/A	Original report issue
1	06/09/10	Cover, page 1, 6	Corrected customer name



Appendix A

Test Facility

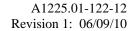






Figure #1Shock Tube and Test Facility

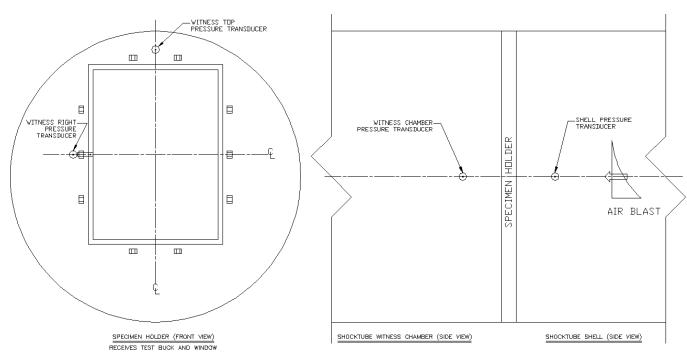


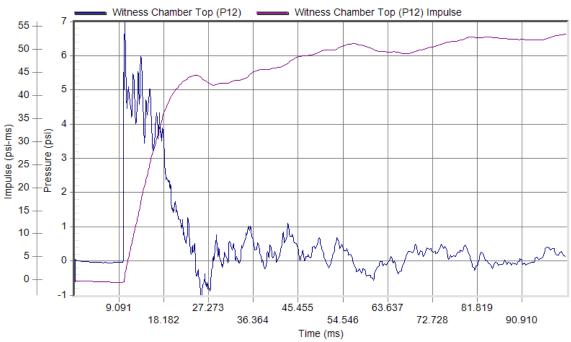
Figure #2
Pressure Sensor Locations



Appendix B

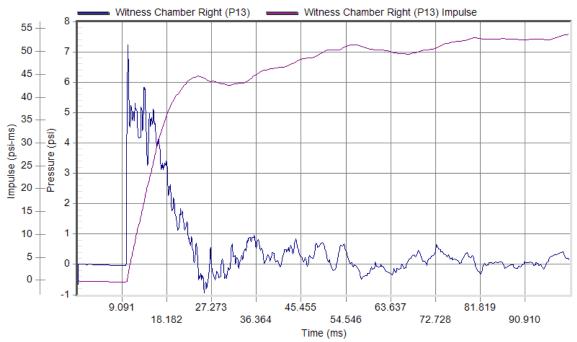
Pressure-Time Plots

Specimen #1



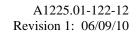
 Peak Pressure: 7.09 psi at 10.30 ms
 Test Date: 5/28/2010

 Duration: 14.32 ms
 Test Time: 1:26 pm



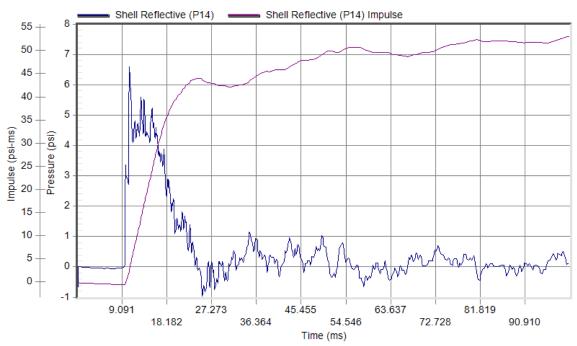
 Peak Pressure: 7.26 psi at 10.32 ms
 Test Date: 5/28/2010

 Duration: 13.40 ms
 Test Time: 1:26 pm





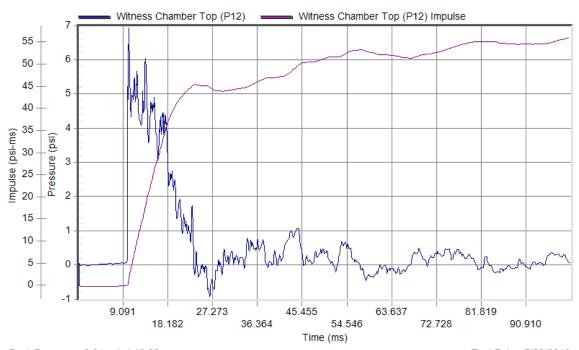
Specimen #1: (Continued)



 Peak Pressure: 6.60 psi at 10.62 ms
 Test Date: 5/28/2010

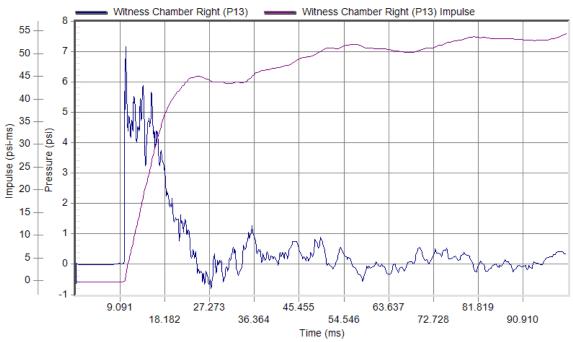
 Duration: 13.31 ms
 Test Time: 1:26 pm

Specimen #2



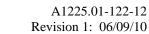
 Peak Pressure: 6.94 psi at 10.30 ms
 Test Date: 5/28/2010

 Duration: 13.20 ms
 Test Time: 2:26 pm



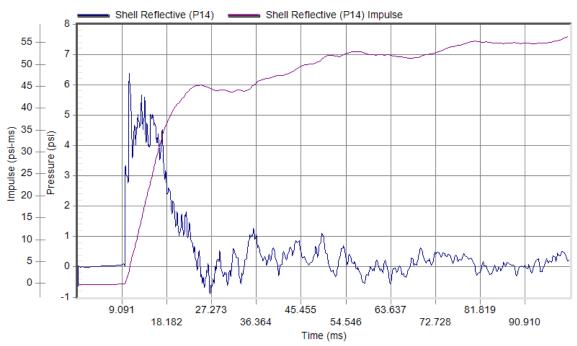
 Peak Pressure: 7.17 psi at 10.29 ms
 Test Date: 5/28/2010

 Duration: 14.40 ms
 Test Time: 2:26 pm





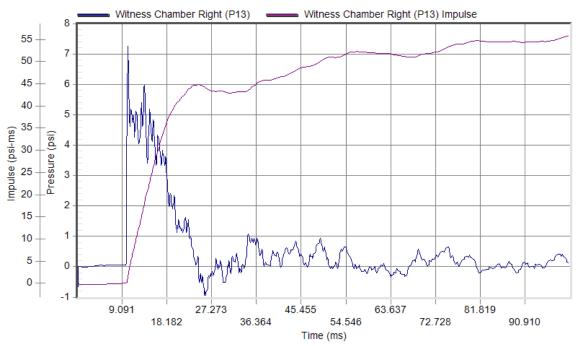
Specimen #2: (Continued)



 Peak Pressure: 6.39 psi at 10.59 ms
 Test Date: 5/28/2010

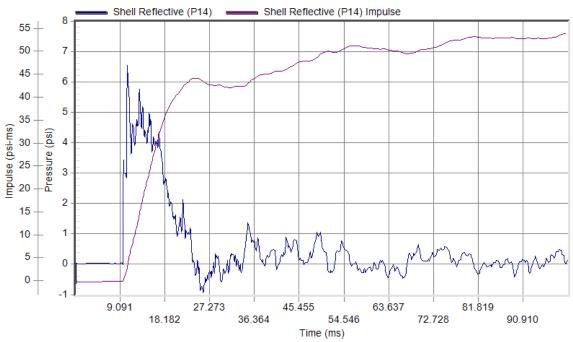
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 Test Time: 2:26 pm

Specimen #3



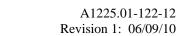
 Peak Pressure: 7.28 psi at 10.32 ms
 Test Date: 5/28/2010

 Duration: 13.76 ms
 Test Time: 3:19 pm



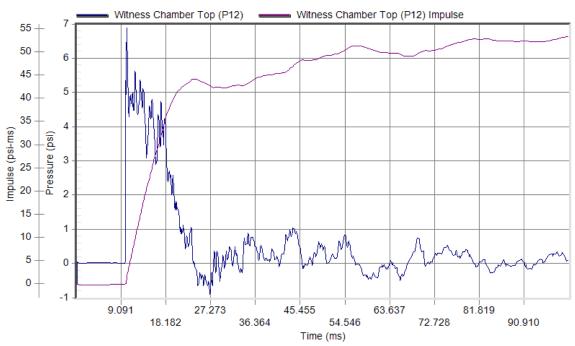
 Peak Pressure: 6.56 psi at 10.61 ms
 Test Date: 5/28/2010

 Duration: 13.23 ms
 Test Time: 3:19 pm





Specimen #3: (Continued)



 Peak Pressure: 6.92 psi at 10.29 ms
 Test Date: 5/28/2010

 Duration: 13.48 ms
 Test Time: 3:19 pm



Appendix C

Photographs

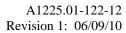




Photo No. 1
Pre-test Specimen #1, Interior



Photo No. 2
Post-test Specimen #1, Interior

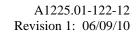




Photo No. 3
Post-test Specimen #1, Witness Chamber

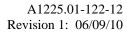






Photo No. 4
Pre-test Specimen #2, Interior



Photo No. 5
Post-test Specimen #2, Interior



Photo No. 6Post-test Specimen #2, Witness Chamber



Photo No. 7
Post-test Specimen #1 and #2, Typical Tearing and Pull-out

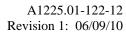






Photo No. 8
Pre-test Specimen #3, Interior



Photo No. 9
Post-test Specimen #3, Interior

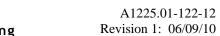




Photo No. 10

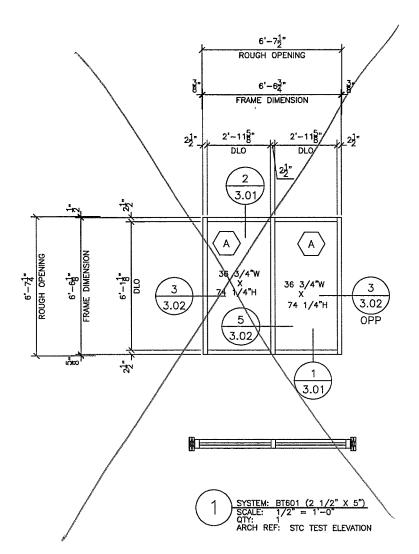
Photo No. 10
Post-test Specimen #3, Witness Chamber

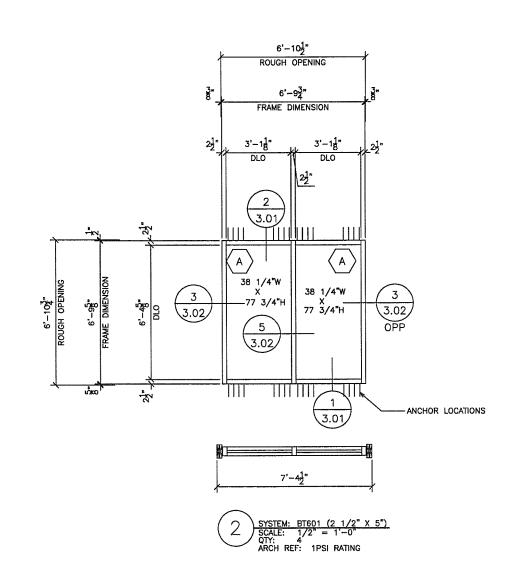


Appendix D

Drawings

SYMBOLS	GLASS SIZES	ABBREVIATIONS	SPECIAL NOTES	GENERAL NOTES]]] 🚡
DETAL NO. SYMBOL USED ON ELEVATIONS SHEET NO. DETAL NO. SYMBOL USED ON DETAILS ARCHITECTURAL SHEET NO. REVISION SYMBOL SPLICE LOCATION REVISED ITEMS	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)	O.D. = OPENING DIMENSION R.O. = ROUGH OPENING H.SO = HINGE RIGHT SWING OUT R.D. = FRAME DIMENSION PRSO = PAIR RIGHT SWING OUT R.L. = RAFTER LENGTH PLSO = PAIR RIGHT SWING OUT REF. = REFERENCE DIMENSION HRSI = HINGE RIGHT SWING IN D.L.O. = DAVIGHT OPENING H.SI = HINGE RIGHT SWING IN D.O. = DOOR OPENING PRSI = PAIR RIGHT SWING IN W.P. = WORKING POINT PLSI = PAIR RIGHT SWING IN A.R. = ARCHITECTURAL REFERENCE C.T.S. = CUT TO SIZE S/L = STOCK LENGTH NBUSA = NOT BY U.S. ALJWINUM M.L. = MULLION LENGTH A.D. = ANCHOR DIMENSION W.D. = WINDOW DIMENSION	1. MATERIAL TO BE 6063—T6 AT VERTICALS ALL OTHER MATERIAL TO BE 6063—T5 UNLESS NOTED OTHERWISE 2. SILICONE SEALANTS AT CAULK JOINTS CAPABLE OF 50% COMPRESSION & TENSION IS ATTICIPATED. (VERTY IF THIS CHANGES.) 3. ALL ROUGH OPENING DIMENSIONS TO BE FIELD VERIFIED PRIOR TO INSTALLATION	1. LIMITATIONS: THESE DRAWINGS REPRESENT AN INTERPRETATION OF ARCHITECTURAL INFORMATION MADE AVAILABLE TO UNITED STATES ALLIMINUM CORPORATION ("USAC"), AND THE PLACEMENT OF USAC SYSTEMS WITHIN THE PROJECT. USAC MAKES IN REPRESENTATION OR WARRANTY AS TO THE PERFORMANCE OR COMPLETENESS OF THE ARCHITECTURAL DETAILS SURROUNDING ITS SYSTEMS AND DOES NOT ACCOUNT FOR ARCHITECTURAL INTERPRETAIN. INTO ARCHITECTURAL PERFORMANCE REQUIREMENTS SWALL BE CONFIRMED WITH ARCHITECT BY INSTALLER, AND VALIDATED BY FIELD MEASURES TO ENSURE PERFORMANCE COMPLIANCE AND ARCHITECTURAL INTERT. 3. ACCEPTANCE: FINAL APPROVAL OF THESE DRAWINGS CONSTITUTES ACCEPTANCE OF ALL STELL, CONCRETE OR ANY OTHER DESSMILAR MATERIALS. 4. GLAZING: USAC RECOMMENDS DELAYING ORDER OF GLASS AND/OR GLAZING MATERIALS UNTIL FINAL APPROVAL OF DESCRIPTION OR OF THE DESTRUMENT OF THE DEPORTMENCE OF SYSTEMS UNTIL FINAL APPROVAL OF DESCRIPTION OR OF THE STEED TO RATED PERFORMANCE MEASURES.	D. REVISIONS DATE
DENOTES MULLION REINFORCEMENT SCALE: OTY: ARCH REF: ELEVATION REFERENCE				FROM USAC, ON REQUEST. MODIFICATION OF DEPICTED PRODUCTS OR DEATING FROM USAC SHOP DRAWNING, METALLATION RECOMMENDATIONS, AND/OR GOOD BUILDING PRACTICES CAN IMPACT THE ABILITY OF FIELD INSTALLATIONS TO ACHIEVE TESTED RATING(S). 6. INSTALLER: IN PROVIDING THESE DRAWNINGS, USAC DOES NOT VALIDATE, ENDORSE, REPRESENT, OR OTHERWISE WARRAUT THE COMPETENCY OR ABILITY OF THE INSTALLING CONTRACTOR(S) TO ASSEMBLE/ADDRESS USAC SYSTEMS IN A MANNER SUFFICIENT TO ENSURE COMPLIANCE WITH DESIRED/APPLICABLE DESIGN, ENGROFY, RATING, BUILDING AND/OR SATETY CODES. 7. LISE: USAC ASSUMES NO RESPONSIBILITY FOR THE USE OF THESE DRAWINGS BY OTHER TRADES.	MINUM FROM CONTROLL STORY
WL WINDLOAD/EXPANSION ANCHOR DL WINDLOAD/DEADLOAD ANCHOR PERIMETER FASTENER REFERENCE WORKING POINT REFERENCE				8. "ABUSA": ALL TRUS MARKED "NBUSA" ARE NOT SUPPLIED BY USAC AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. 9. PROTECTION: CARE SHOULD BE TAKEN TO ENSURE USAC SUPPLIED PRODUCTS ARE PROTECTED BEFORE INSTALLATION AND ISOLATED IN INSTALLATION, WHERE APPROPRIATE, FROM CONTACT WITH STEEL, CONCRETE OR OTHER DISSIMILAR MATERIALS. 10. COMPLIANCE: OWNER, ARCHITECT AND DEALER ARE RESPONSIBLE FOR SELECTION, INSTALLATION, AND ADJUSTMENT OF SYSTEMS TO ENSURE COMPLIANCE WITH ALL APPLICABLE DESIGN, ENERGY, RATING, BUILDING AND/OR SAFETY CODES. 11. INSTALLATION: USAC OFFERS GENERALLY APPLICABLE INSTALLATION RECOMMENDATIONS FOR THE SYSTEMS DEPICTED HEREIN. INSTALLATION CONTRACTOR MUST ENSURE COMPLIANCE WITH USAC DESIGN INTENT AND INSTALLATION RECOMMENDATIONS IN ADDITION TO ANY PROJECT SPECIAL DISSIBLATION RECOMMENDATIONS FOR USAC. USAC MAKES/SSUES NO WARRANTY OR COMMENDED THE RELATIVE TO INSTALLED SYSTEMS THAT DO NOT COMPLY WITH, OR ARCHITECTURALLY DENAITE FROM, USAC RECOMMENDATIONS UNLESS EXPRESSLY APPROXED BY USAC BEFORE	ALUM COMPANDED TO
GLAZING SCHEDULE SYMBOL DESCRIPTION A 1 5/16" INSULATED GLASS	BT601	STC TEST		SEALANT NOTES 1. SELECTION AND SPECIFICATION: USAC IS NOT RESPONSIBLE FOR SPECIFICATION, SELECTION OR USE OF SEALANTS AND/OR CAULIUM RECESSARY FOR THE ASSEMBLY DEPICITED IN THISES DRAWMINS. OWNER, ARCHITECT, INSTALLER, AND SEALANT MANUFACTURER MUST COMPER TO ENSURE SPECIFICATION, SELECTION AND USE OF SEALANT MANUFACTURER MUST COMPER TO ENSURE SPECIFICATION, SELECTION AND USE OF SEALANTS/CAULIUM ON THIS PRODUCT THAT ARE APPROPRIATE AND IN COMPLIANCE WITH USAC SHOP DRAWMEN, INSTALLATION RECOMMENDATIONS, AND GOOD BULDING PRACTICES. 2. WATERTINGHT APPLICATION: REGARDLESS OF WHAT IS DEPICTED HEREIN, ALL GASKET JOINTS, BUILT JOINTS, LIFE DEADS, AND CAP BEADS SHOULD BE SEALED	CUSTOMER DERRY COURT K, PA 17406
MATERIALS AVAILABLE WHEN DRAWN □ YES ARCHITECTURALS ☑ NO □ YES SPECIFICATIONS ☑ NO LATEST DATE: □ STOKET PROTISS & STOKET PROTISS & GLAZING □ □ □ YES STRUCTURALS ☑ NO □ YES ADDENDUMS ☑ NO LATEST DATE: _ NUMBERS: _	ANDA	NCHOR TES	ST	WATERTICHT FOLLOWING SEALANT MANUFACTURER RECOMMENDATIONS AS TO SIZE, METHOD OF	TECT ATI 130 YOR
DESIGN CRITERIA Wind Pressure #99 MILL #11 CLEAR (CLASS II) #22 DARK BRONZE #22 DARK BRONZE #22 DARK BRONZE #22 DARK BRONZE #23 DARK BRONZE #24 DARK BRONZE	Test sample complies with these details Deviations are noted. Report # A 1225.01-122-12 Date 6 101 2010 Tech 18	, Ša		TABLE OF CONTENTS SHEET DESCRIPTION SHEET DESCRIPTION 1.01 LEAD SHEET DESCRIPTION 2.01 SLEVATIONS 3.01-3.03 DETAILS FIRST APPROVAL APRIL 28, 2010	PROJECT BT601 STC TEST AND ANCHOR TEST
	T DESCRIPTION TH DEPTH COMMENTS	DIES STAMP ARCHITECT GEN. CONT		DRAFTING DEPARTMENT LOCATIONS 3663 BANDINI BOULEVARD - VERNON, CALIFORNIA 90023 1 200 SINGLETON DRIVE - WAXAHACHIE, TEXAS 75165 1 6969 WEST 73RD STREET - CHICAGO, ILLINOIS 60638 TELEPHONE (708) 458-8070	DRAWN BY JC DS PROJECT MANAGER USAC-SC DATE 4/28/10 PROJECT NO. 2010-24
				▼ 720 CEL-RIVER ROAD ROCK HILL, SOUTH CAROLINA 29730 TELPHONE (803) 368-8328	SHEET 1.01







Test sample complies with these details.

Deviations are noted.

Report #1925.01-122-12

Date 6/01/2010 Tech 22

UN NO. REVISIONS DATE BY

ALUMINUN SALUMINUN



CUSTOMER
ATI
130 DERRY COURT
YORK, PA 17406

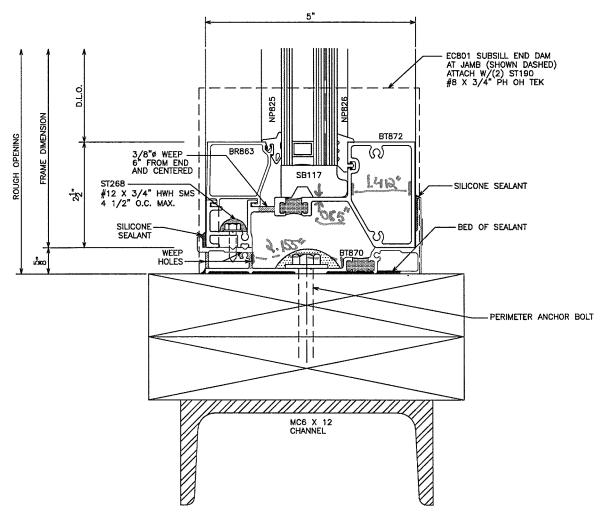
ARCHITECT

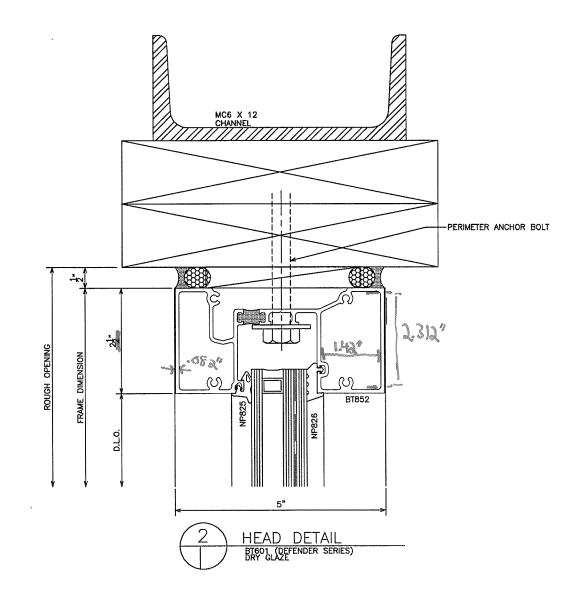
PROJECT BIF601 STC TEST AND ANCHOR TEST

JC DS

PROJECT MANAGER
USAC—SC
DATE
4/28/10
PROJECT NO.
2010—24

SHEET 2.01







Test sample complies with these details.

Deviations are noted.

Report # 1/122501 - 122-12 Date 6/01/2010 Tech 22 CUSTOMER
ATI
130 DERRY COURT
YORK, PA 17406

4444 §

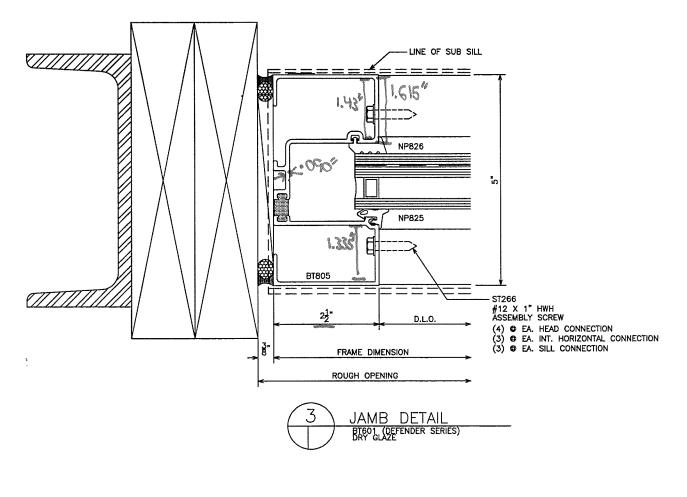
ARCHITECT

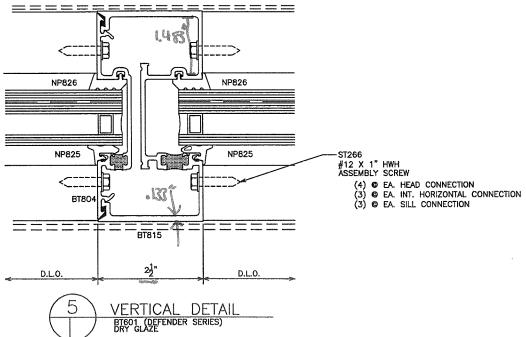
PROJECT
BIEG1 STC TEST
AND ANCHOR TEST

DRAWN BY

JC DS

PROJECT MANAGER
USAC-SC
DATE
4/28/10
PROJECT NO.
2010-24
SHEET
3.01







Architectural Testing

Test sample complies with these details.

Deviations are noted.

Report #1/1005.01-100-10

4444 ₹



ATI 130 DERRY COURT YORK, PA 17406

BT601 STC TEST AND ANCHOR TEST

DRAWN BY JC DS

PROJECT MANAGER USAC-SC DATE. 4/28/10 PROJECT NO.

2010--24 SHEET 3.02

