Architectural Testing

AAMA 1503-09 THERMAL PERFORMANCE TEST REPORT

Rendered to:

UNITED STATES ALUMINUM

SERIES/MODEL: FT601 Curtain Wall (Bratton Corp)
TYPE: Glazed Wall Systems (Site-built)

Summary of Results	
Thermal Transmittance (U-Factor)	0.50
Condensation Resistance Factor - Frame (CRF_f)	60
Condensation Resistance Factor - Glass (CRF_g)	63

Unit Size	78-3/4" x 78-3/4" (2000 mm x 2000 mm)
Layer 1	1/4" AGC Comfort TiAC 36 (e=0.034*, #2)
Gap 1	0.50" Gap, Stainless Steel Spacer (SS-D), Air-Filled*
Layer 2	1/4" Clear Tempered

Reference must be made to Report No. 93419.02-116-46, dated 08/13/09 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

Architectural Testing

AAMA 1503-09 THERMAL PERFORMANCE TEST REPORT

Rendered to:

UNITED STATES ALUMINUM
200 Singleton Drive
Waxahachie, Texas 75165

Report Number:	93419.02-116-46
Test Date:	08/04/09
Report Date:	08/13/09
Expiration Date:	08/04/13

Test Sample Identification:

Series/Model: FT601 Curtain Wall (Bratton Corp)

Type: Glazed Wall Systems (Site-built)

Test Sample Submitted by: Client

Test Procedure: The condensation resistance factor (CRF) and thermal transmittance (U) were determined in accordance with AAMA 1503-09, *Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections*

1. Average warm side ambient temperature 69.80 F
2. Average cold side ambient temperature -0.39 F
3. 15 mph dynamic wind applied to test specimen exterior.
4. 0.0" $\pm$0.04" static pressure drop across specimen.

Test Results Summary:

1. Condensation resistance factor - Frame (CRF_f) 60
   Condensation resistance factor - Glass (CRF_g) 63
2. Thermal transmittance due to conduction (U_c) 0.50
   (U-factors expressed in Btu/hr·ft^2·F)

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Test Sample Description:

CONSTRUCTION		**Frame**
	Size (in.) Non-Standard	78-3/4" x 78-3/4"
	Daylight Opening (in.)	36-3/8" x 75-1/8" (x2)
CORNERS		Butt
	Fasteners	Screws
	Sealant	No
MATERIAL		AU (0.19")*
	Color Exterior	White
	Finish Exterior	Paint
	Color Interior	White
	Finish Interior	Paint
GLAZING METHOD		Pocket

* Skipped-debridge thermal break

Glazing Information:

Layer 1	1/4" AGC Comfort TiAC 36 (e=0.034*, #2)
Gap 1	0.50" Gap, Stainless Steel Spacer (SS-D), Air-Filled*
Layer 2	1/4" Clear Tempered
Gas Fill Method	N/A*
Desiccant	Yes

**Stated per Client/Manufacturer*
NA Non-Applicable
See Description Table Abbreviations

Test Sample Description: (Continued)

COMPONENTS			
	Type	**Quantity**	**Location**
WEATHERSTRIP			
	EPDM Pressure gasket	1 Row	Interior and exterior glazing perimeter
HARDWARE			
	Aluminum sill receptor (AU 0.19")	1	Sill
DRAINAGE			
	No visible weeps		

Test Duration:

1. The environmental systems were started at 09:56 hours, 08/03/09.

2. The thermal performance test results were derived from 03:37 hours, 08/04/09 to 07:37 hours, 08/04/09.

Condensation Resistance Factor (CRF):

The following information, condensed from the test data, was used to determine the condensation resistance factor:

T_h	=	Warm side ambient air temperature	69.80 F
T_c	=	Cold side ambient air temperature	-0.39 F
FT_p	=	Average of pre-specified frame temperatures (14)	42.00 F
FT_r	=	Average of roving thermocouples (4)	35.58 F
W	=	$(FT_p - FT_r) / [FT_p - (T_c + 10)] \times 0.40$	0.079
FT	=	$FT_p(1-W) + W (FT_r)$ = Frame Temperature	41.49 F
GT	=	Glass Temperature	43.79 F
CRF_g	=	Condensation resistance factor – Glass	63
		$CRF_g = (GT - T_c) / (T_h - T_c) \times 100$	
CRF_f	=	Condensation resistance factor – Frame	60
		$CRF_f = (FT - T_c) / (T_h - T_c) \times 100$	

The CRF number was determined to be 60 (on the size as reported). When reviewing this test data, it should be noted that the frame temperature (FT) was colder than the glass temperature (GT) therefore controlling the CRF number. Refer to the 'CRF Report' page and the 'Thermocouple Location Diagram' page of this report.

Thermal Transmittance (U_c):

T_h	=	Average warm side ambient temperature	69.80	F
T_c	=	Average cold side ambient temperature	-0.39	F
P	=	Static pressure difference across test specimen 15 mph dynamic perpendicular wind at exterior	0.00	psf
Nominal sample area			43.07	ft^2
Total measured input to calorimeter			1629.20	Btu/hr
Calorimeter correction			113.12	Btu/hr
Net specimen heat loss			1516.09	Btu/hr
U_c	=	Thermal Transmittance	0.50	$Btu/hr \cdot ft^2 \cdot F$

Glazing Deflection (in.):

	Left Glazing	Right Glazing
Edge Gap Width	0.50	0.50
Estimated center gap width upon receipt of specimen in laboratory (after stabilization)	0.32	0.32
Center gap width at laboratory ambient conditions on day of testing	0.32	0.32
Center gap width at test conditions	0.34	0.38

The sample was inspected for the formation of frost or condensation, which may influence the surface temperature measurements. The sample showed no evidence of condensation/frost at the conclusion of the test.

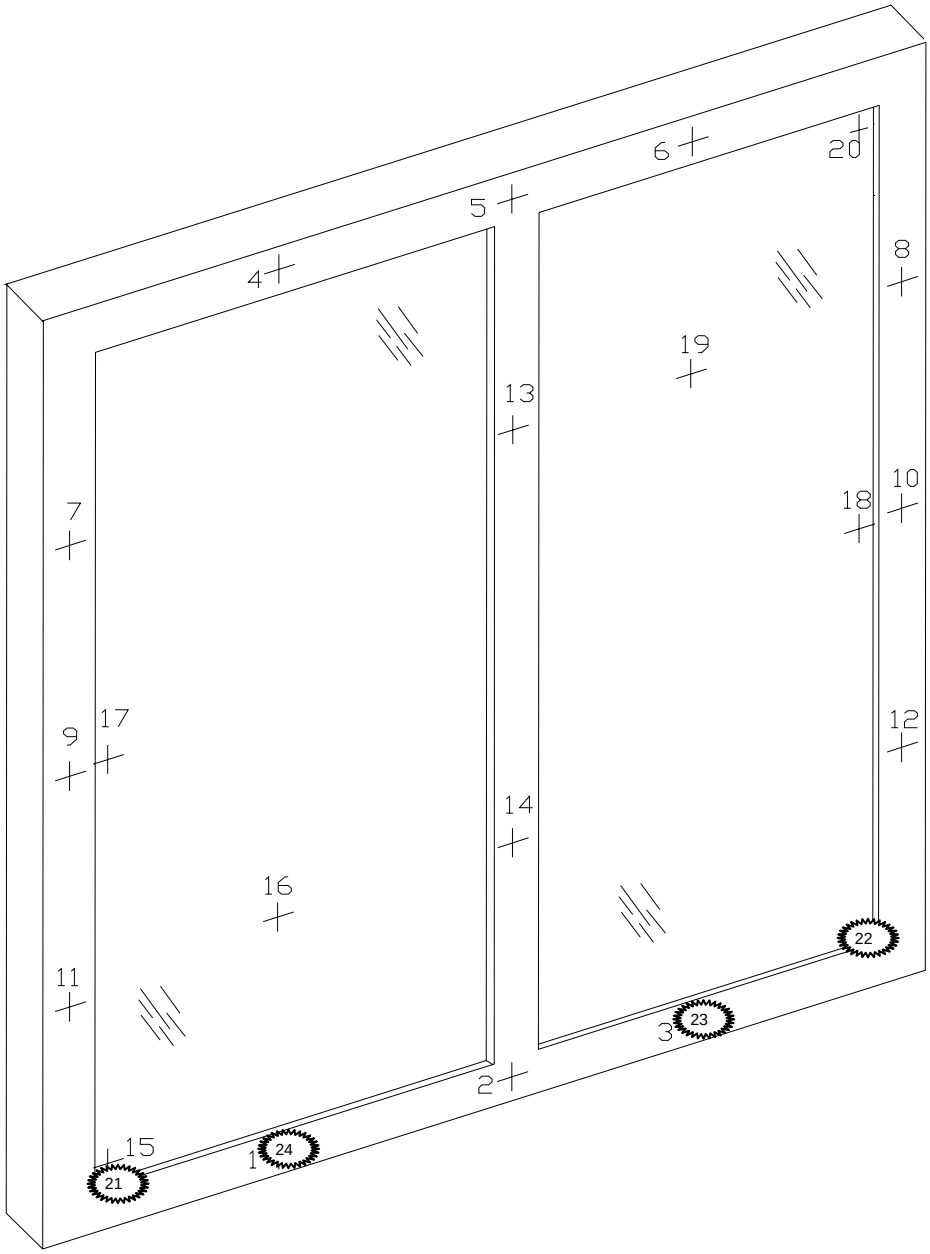
A calibration of the Architectural Testing Inc. 'thermal test chamber' (ICN 000001) in York, Pennsylvania was conducted in April 2009 in accordance with Architectural Testing Inc. calibration procedure.

Prior to testing the specimen was sealed with silicone on the interior side and checked for air infiltration per Section 9.3.4.

CRF Report

Time:	05:37	06:07	06:37	07:07	07:37	AVERAGE
Pre-specified Thermocouples - Frame						
1	36.22	36.25	36.25	36.26	36.21	36.24
2	38.76	38.81	38.89	38.86	38.89	38.85
3	35.83	35.80	35.83	35.83	35.80	35.82
4	43.73	43.75	43.82	43.83	43.82	43.79
5	44.72	44.72	44.71	44.70	44.70	44.71
6	44.64	44.58	44.64	44.65	44.64	44.63
7	44.24	44.29	44.27	44.27	44.25	44.26
8	46.08	46.09	46.12	46.07	46.08	46.09
9	42.34	42.36	42.39	42.41	42.35	42.37
10	44.12	44.15	44.18	44.18	44.18	44.16
11	39.22	39.24	39.26	39.24	39.24	39.24
12	40.23	40.21	40.24	40.27	40.28	40.25
13	45.22	45.27	45.34	45.29	45.31	45.28
14	42.31	42.21	42.25	42.31	42.43	42.30
FTP	41.98	41.98	42.01	42.01	42.01	42.00
Pre-specified Thermocouples - Glass						
15	30.89	30.93	30.97	30.96	31.01	30.95
16	51.76	51.65	51.73	51.77	51.76	51.73
17	41.22	41.21	41.33	41.26	41.33	41.27
18	42.81	42.84	42.88	42.87	42.85	42.85
19	54.12	54.11	54.15	54.11	54.11	54.12
20	41.85	41.80	41.85	41.78	41.82	41.82
GT	43.78	43.76	43.82	43.79	43.81	43.79
Cold Point (Roving) Thermocouples						
21	34.60	34.60	34.60	34.60	34.60	34.60
22	35.70	35.70	35.70	35.70	35.70	35.70
23	35.80	35.80	35.80	35.80	35.80	35.80
24	36.20	36.20	36.20	36.20	36.20	36.20
FT_R	35.58	35.58	35.58	35.58	35.58	35.58
W	0.08	0.08	0.08	0.08	0.08	0.08
FT	41.47	41.47	41.50	41.50	41.50	41.49
Warm Side - Room Ambient Air Temperature						
	69.81	69.81	69.82	69.79	69.80	69.81
Cold Side - Room Ambient Air Temperature						
	-0.43	-0.41	-0.40	-0.25	-0.42	-0.38
CRF_f	60	60	60	60	60	60
CRF_g	63	63	63	63	63	63

Thermocouple Location Diagram



Cold Point Locations

21. 34.60
22. 35.70
23. 35.80
24. 36.20

Detailed drawings, data sheets, representative samples of the test specimens, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. until 8/4/2013. At the end of this retention period such materials shall be discarded without notice and the service life of this report by Architectural Testing, Inc. 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(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.

Digitally Signed by: Benjamin W. Green

Benjamin W. Green
Technician

Digitally Signed by: Shon W. Einsig

Shon W. Einsig
Senior Technician
Individual-In-Responsible-Charge

BWG:kmm
93419.02-116-46

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix-A: Description Table Abbreviations (1)
Appendix-B: Drawings (13)

Revision Log

Rev. #	Date	Page(s)	Revision(s)
.02R0	08/13/09	All	Original Report Issue. Work requested by Terry Hopgood of United States Aluminum.

Appendix A: Description Table Abbreviations

CODE	Frame / Sash Types
AI	Aluminum w/ Vinyl Inserts (Caps)
AL	Aluminum
AP	Aluminum w/ Thermal Breaks - Partial
AS	Aluminum w/ Steel Reinforcement
AT	Aluminum w/ Thermal Breaks - All Members (≥ 0.21")
AU	Aluminum Thermally Improved - All Members (0.062" - 0.209")
AV	Aluminum / Vinyl Composite
AW	Aluminum-clad Wood
FG	Fiberglass
PA	ABS Plastic w/ All Members Reinforced
PC	ABS Plastic-clad Aluminum
PF	ABS Plastic w/ Foam-filled Insulation
PH	ABS Plastic w/ Horizontal Members Reinforced
PI	ABS Plastic w/ Reinforcement - Interlock
PL	ABS Plastic
PP	ABS Plastic w/ Reinforcement - Partial
PV	ABS Plastic w/ Vertical Members Reinforced
PW	ABS Plastic-clad Wood
ST	Steel
VA	Vinyl w/ All Members Reinforced
VC	Vinyl-clad Aluminum
VF	Vinyl w/ Foam-filled Insulation
VH	Vinyl w/ Horizontal Members Reinforced
VI	Vinyl w/ Reinforcement - Interlock
VP	Vinyl w/ Reinforcement - Partial
VV	Vinyl w/ Vertical Members Reinforced
VW	Vinyl-clad Wood
VY	Vinyl
WA	Aluminum / Wood composite
WD	Wood
WV	Vinyl / Wood composite
WF	Fiberglass/Wood Combination
WC	Composite/Wood Composite (Shaped vinyl/wood composite members)
CW	Copper Clad Wood
CO	Vinyl/Wood Composite Material

CODE	Spacer Types (See sealant)
A1	Aluminum
A2	Aluminum (Thermally-broken)
A3	Aluminum-reinforced Polymer
A4	Aluminum / Wood
A5	Aluminum-reinforced Butyl (Swiggle)
A6	Aluminum / Foam / Aluminum
A7	Aluminum U-shaped
A8	Aluminum-Butyl (Corrugated) (Duraseal)
ER	EPDM Reinforced Butyl
FG	Fiberglass
GL	Glass
OF	Organic Foam
P1	Duralite
PU	Polyurethane Foam
SU	Stainless Steel, U-shaped
CU	Coated Steel, U-shaped (Intercept)
S2	Steel (Thermally-broken)
S3	Steel / Foam / Steel
S5	Steel-reinforced Butyl
S6	Steel U-channel w/ Thermal Cap
SS	Stainless Steel
CS	Coated Steel
TP	Thermo-plastic
WD	Wood
ZE	Elastomeric Silicone Foam
ZF	Silicone Foam
ZS	Silicone / Steel
N	Not Applicable
TS	Thermo-plastic w/ stainless steel substrate

CODE	Tint Codes
AZ	Azurlite
BL	Blue
BZ	Bronze
CL	Clear
EV	Evergreen
GD	Gold
GR	Green
GY	Gray
LE	Low 'e' Coating
OT	Other (use comment field)
RC	Solar or Reflective Coating
RG	Roller Shades between glazing
RS	Silver (reflective coating)
SF	Suspended Polyester Film
SR	Silver
BG	Blinds between the Glazing
DV	Dynamic Glazing-Variable
DY	Dynamic Glazing-NonVariable

CODE	Gap Fill Codes
AIR	Air
AR2	Argon/Krypton Mixture
AR3	Argon / Krypton / Air
ARG	Argon/Air
CO2	Carbon Dioxide
KRY	Krypton/Air
SF6	Sulfur Hexaflouride
XE2	Xenon/Krypton/Air
XE3	Xenon/Argon/Air
XEN	Xenon/Air
N	Not Applicable

DOOR DETAILS	
N	Not Applicable
CODE	Door Type
EM	Embossed
FL	Flush
LF	Full Lite
LH	1/2 - Lite
LQ	1/4 - Lite
LT	3/4 - Lite
RP	Raised Panel
CODE	Skin
AL	Aluminum
FG	Fiberglass
GS	Galvanized Steel
ST	Steel
WD	Wood
VY	Vinyl
CODE	Panel
FG	Fiberglass
PL	Plastic
WP	Wood - Plywood
WS	Wood - Solid
CODE	Sub-Structure
GS	Galvanized Steel
ST	Steel
WD	Wood
VY	Vinyl
CODE	Core Fill
CH	Cellular - Honeycomb
EP	Expanded Polystyrene
PI	Polyisocyanurate
PU	Polyurethane
WP	Wood - Plywood
WS	Wood - Solid
XP	Extruded Polystyrene

CODE	Spacer Sealant
D	Dual Seal Spacer System
S	Single Seal Spacer System

CODE	Grid Description
N	No Muntins
G	Grids between glass
S	Simulated Divided Lites
T	True Muntins

CODE	Grid Size Codes
	Blank for no grids
0.75	Grids < 1"
1.5	Grids >= 1"

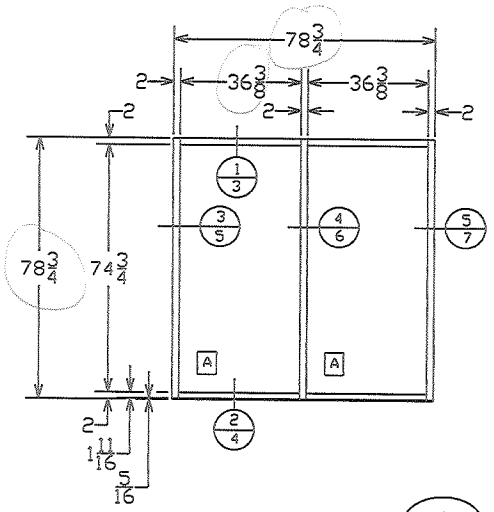
CODE	Thermal Breaks
F	Foam
U	Urethane
V	Vinyl
FB	Fiberglass
O	Other
AB	ABS
NE	Neoprene
AI	Air
N	Not Applicable
P	Polyamide

Appendix B: Drawings

ACCESSORY & HARDWARE BILL OF MATERIAL

PART NO.	DESCRIPTION	QTY	LENGTH	MATERIAL	SUPPLIER
FT773	HEAD	2	36.375	ALUMINUM	INTEX
M-773	HEAD IG STOP	2	36.375	"	"
FT783	SILL	2	36.375		
M-116	SILL DG STOP	2	36.375		
FT700	SUB SILL	1	80.000		
FT752	VERTICAL MULL	3	79.688		
RX810	VERTICAL MULL FILLER	3	79.688	✓	✓
SB200	SETTING BLOCK	4		EPDM	TREMCO
WD452	W BLOCK	3		"	"
NP225	HZ GLAZING GASKET	8	36.375		
NP225	VT GLAZING GASKET	8	74.750	✓	✓
ST251	#10 AB X 1" HWH SMS ZC	16			

SYM	REVISION	DATE	BY



A

TEST UNIT 1

SYMBOL KEY

SYMBOL	DESCRIPTION	QTY	COMMENTS
A	37 ¼" X 75 ⅝"	2	1 INS = ¼" GLS1, ½" AIR , ¼" CLEAR

SUBSIDIARY OF INTERNATIONAL ALUMINUM CORPORATION

THIS SPACE RESERVED FOR STRUCTURAL ENGINEER

THIS SPACE RESERVED FOR METRO-DADE USE ONLY

United States Aluminum
- 720 Cel-River Road
Rock Hill, SC 29730
- 200 Singleton Drive
Waxahachie, TX 75165

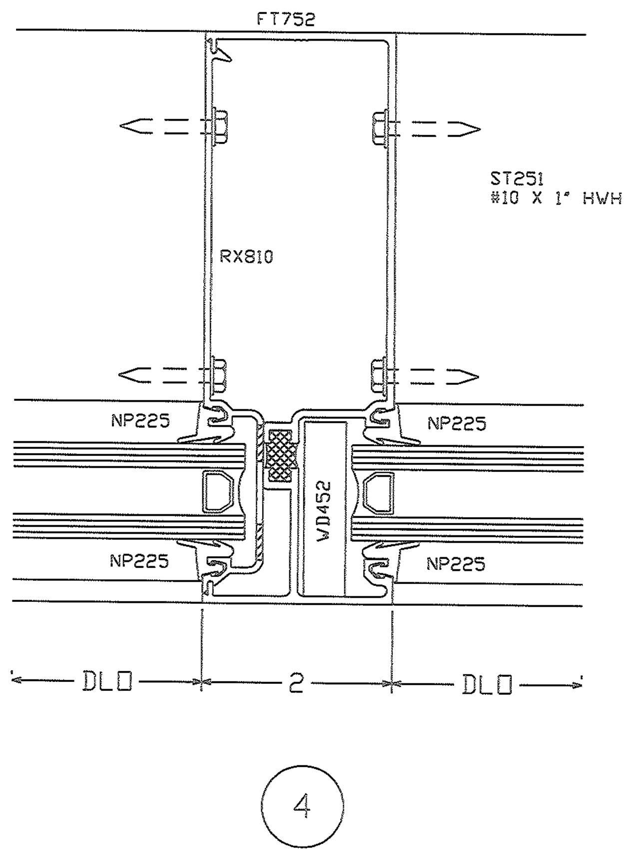
DRAWN BY: DCW	SYSTEM: SERIES FT601 6" FLUSH OUT STOREFRONT
DATE: 03.12.09	
APPVD BY:	DESCRIPTION: ELEVATIONS
SCALE: ⅜" = 1'	DRAWING NO.: USA-3104 — SHEET: 2 OF 7

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 03419.01

Date 03/13/09 Tech BWG



STN	REVISION	DATE	BY

THIS SPACE RESERVED FOR STRUCTURAL ENGINEER

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United States Aluminum
720 Cel-River Road
Rock Hill, SC 29730
200 Singleton Drive
Waxahachie, TX 75165

DRAWN BY: DCW	SYSTEM: SERIES FT601 6" FLUSH OUT STOREFRONT
DATE: 03.12.09	
APPV'D BY:	DESCRIPTION: DETAILS
SCALE: FULL	DRAWING NO.: USA-3104 — SHEET: 6 OF 7

SUBSIDIARY OF INTERNATIONAL ALUMINUM CORPORATION

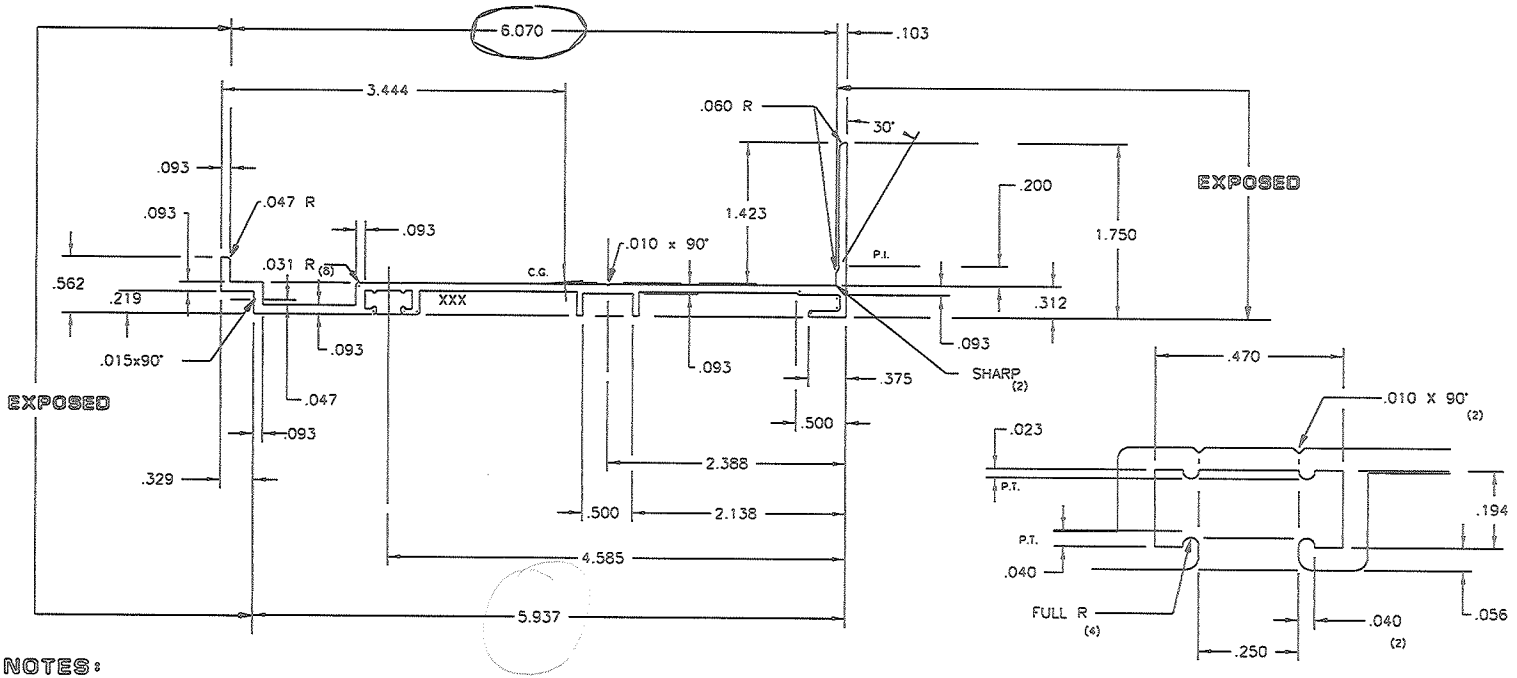
Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 93419.01

Date 08/12/09 Tech Billy

			U.S. ALUMINUM CORP.		T-31689
			SUB-SILL-6"FF	MAMO	1/5/96
			FF701	FULL SIZE	



THERMAL BREAK DETAIL

SCALE: 4X SIZE

NOTES:

1. ASSEMBLES W/FF683; DIE #31686
2. THERMAL BREAK AREA: .103; "AA"
3. DEBRIDGE WITH A .125 WIDE X .015 PENETRATION INTO THERMAL MATERIAL.
4. PAINT PERIMETER: 2.172"
5. XXX INDICATES I.D. MARK FOR IEC-TX

☐ CA
☒ TX

.078

.798	P-26184	1 WP 31689
.958	6.454	12x31689
19.872	SOLID	15x8 1/2 31689
21	8 = 67 /SUE	T-31689

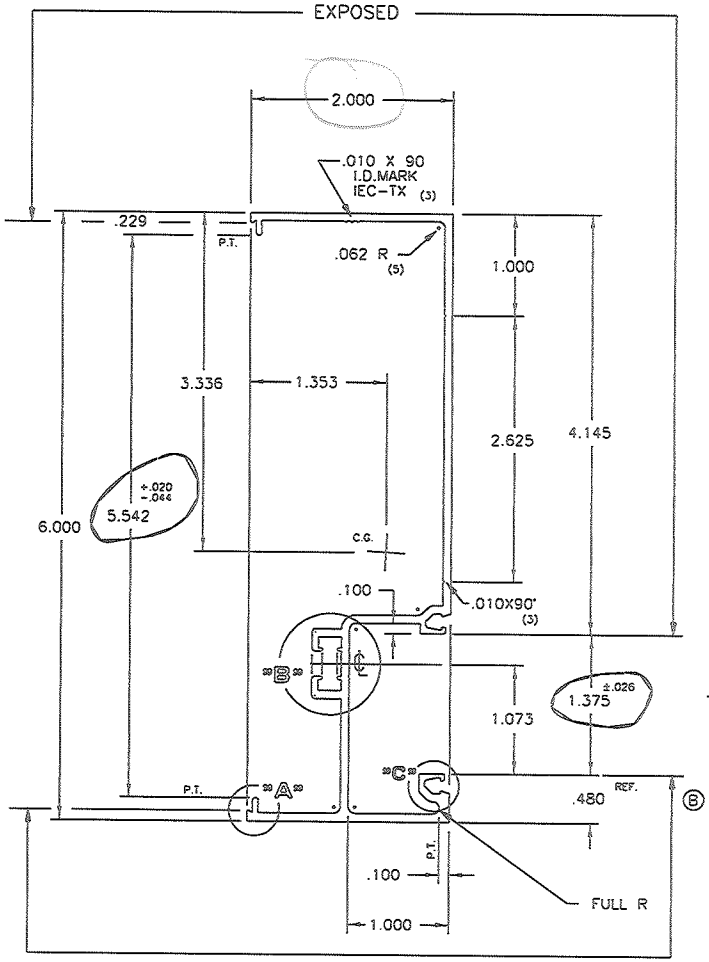
Architectural Testing

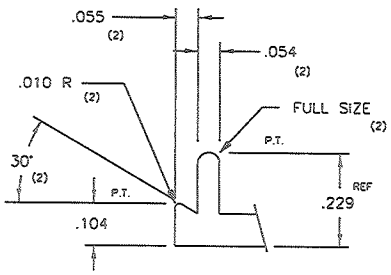
Test sample complies with these details.
Deviations are noted.

Report# 93419.01

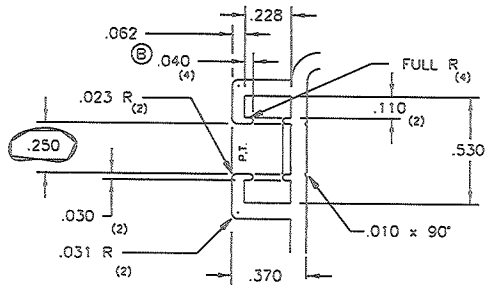
Date 2/12/97 Tech BWG

B	.040 WAS .023, RECALC'D	RT/GH	10/30 97	U.S. ALUMINUM CORP.	T-31693 |B
				VERT MULL-6"FF / MAMO	1/5/96
				FF752 / FULL SIZE	





DETAIL "A"
(4x SIZE)



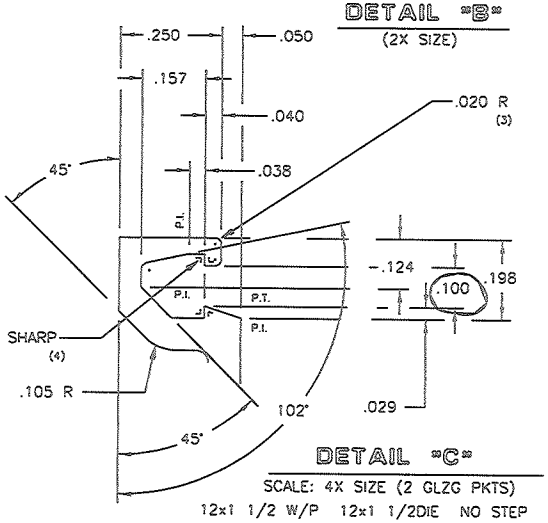
DETAIL "B"
(2X SIZE)

SECTION PROPERTIES:

I_{xx} =4.843 in⁴
S_{xx} =1.452 in³
I_{yy} =0.363 in⁴
S_{yy} =0.268 in³

NOTES:

1. SNAP-FITS W/RF810; DIE #31703
   W/RF800; DIE #31702
   W/PF600; DIE #31676
2. PAINT PERIMETER: 8.258"
3. (B) THERMO DETAIL AREA: .132; "AA"
4. DEBRIDGE WITH .218 WIDE X .015 MAX PENETRATION INTO THERMO MATERIAL
5. F & D PART NO. IS FT752



DETAIL "C"
SCALE: 4X SIZE (2 GLZG PKTS)
12x1 1/2 W/P 12x1 1/2DIE NO STEP

☐ CA
☒ TX

.080

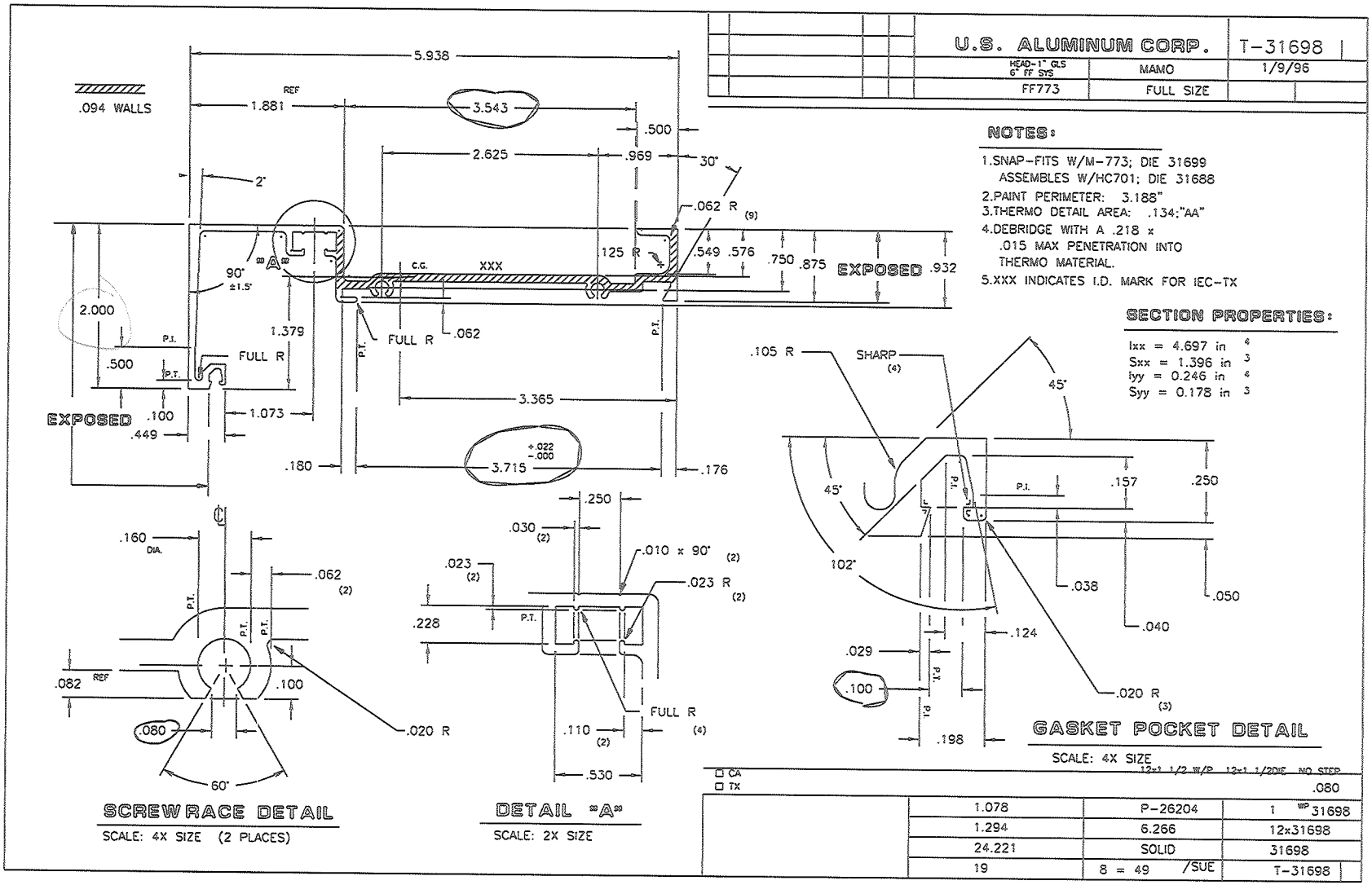
1.022 (B)	P-26200	1	WP 31693
1.226 (B)	6.324		12x31693
26.302 (B)	SOLID	15=8 1/2	31693
21	8 = 52 /SUE		T-31693 |B

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 93419.01

Date 08/12/09 Tech BWG



Architectural Testing

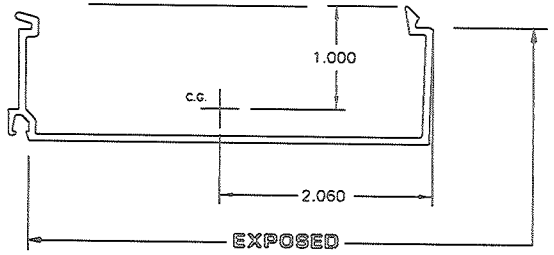
Test sample complies with these details.
Deviations are noted.

Report# 93419.01

Date 08/1/96 Tech BMG

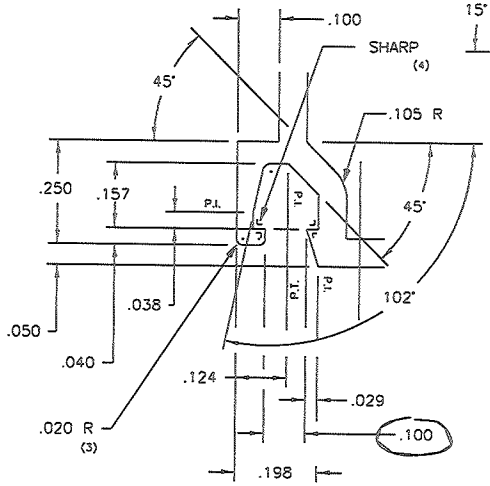
U.S. ALUMINUM CORP.			T-31699	
INT GLS STOP 6" FF SYS		MAMO	1/10/96	
M-773		2x SIZE		

ACTUAL SIZE



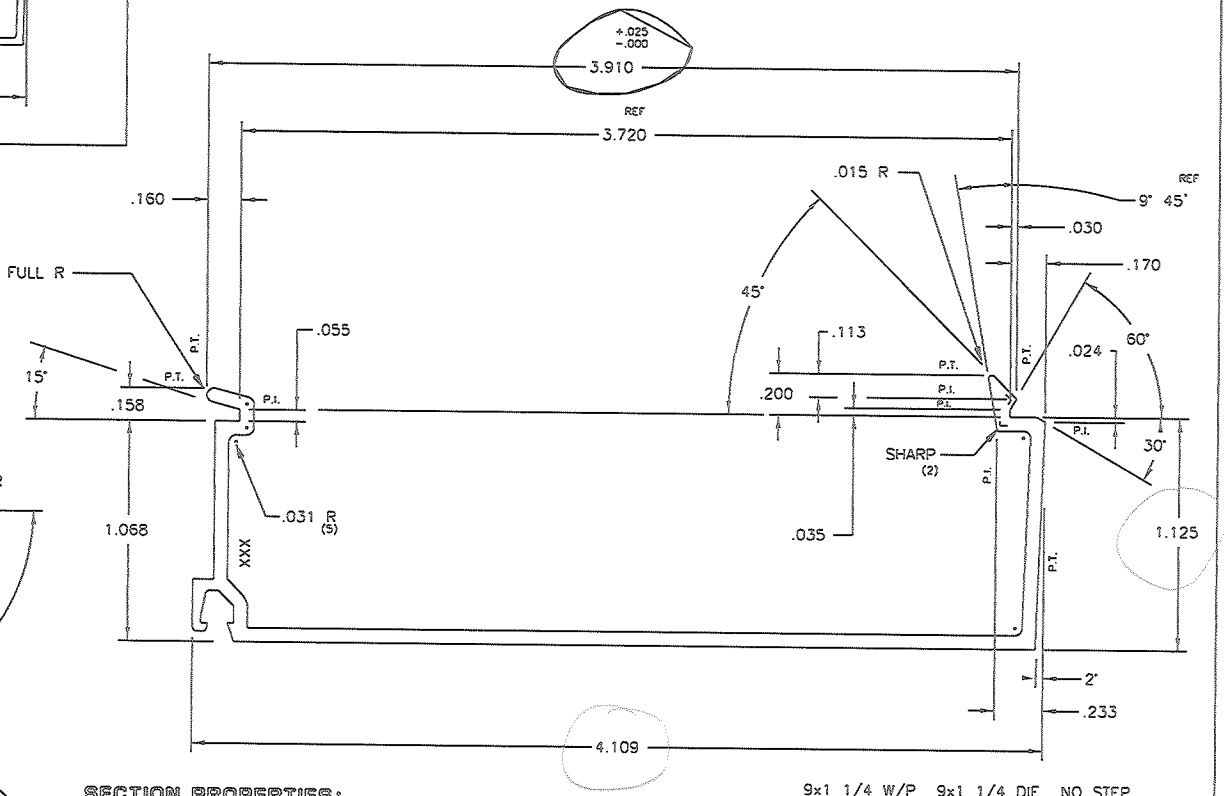
NOTES:

1. SNAP-FITS W/FF773; DIE #31699
   W/FH763; DIE #31696
2. PAINT PERIMETER: 5.023"
3. XXX INDICATES I.D. MARK FOR IEC-TX



GASKET POCKET DETAIL

SCALE: 4X SIZE



SECTION PROPERTIES:

Ixx = 1.130 in^4
Sxx = 0.549 in^3
Iyy = 0.080 in^4
Syy = 0.080 in^3

9x1 1/4 W/P 9x1 1/4 DIE NO STEP

☐ CA
☒ TX

.068

.477	P-26210	1 WP 31699
.572	4.238	9x31699
14.155	SOLID	14366
25	7 = 86 /LOIS	T-31699

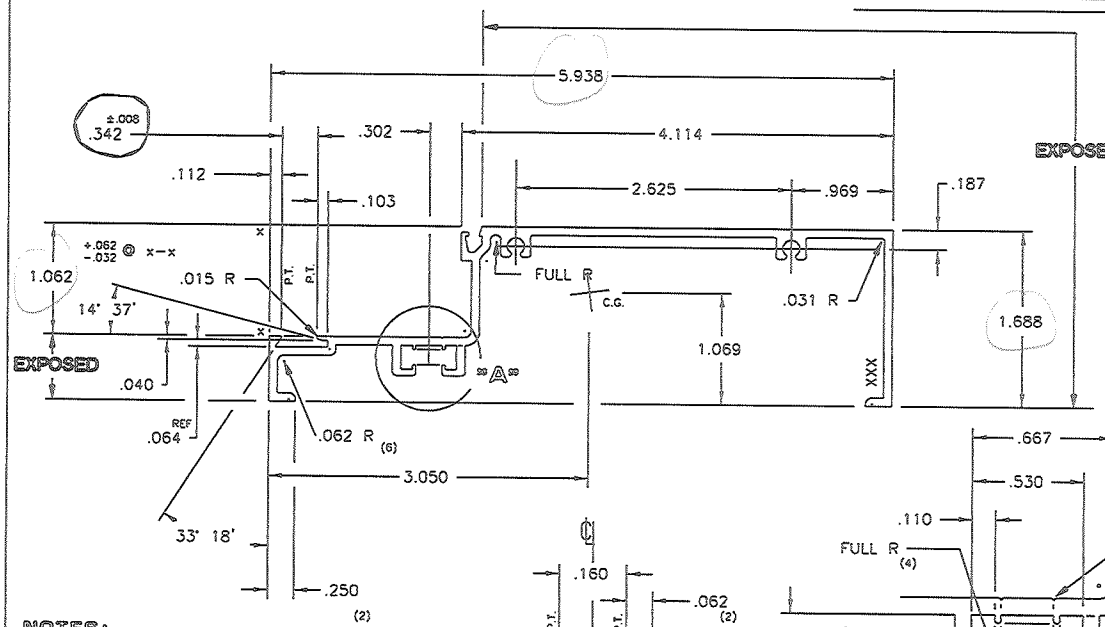
Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# B419.01

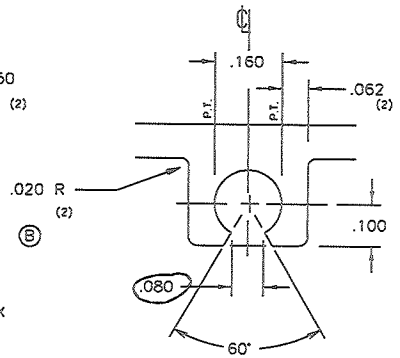
Date 02/13/97 Tech BJG

B	.040 WAS .023, RECALC'D	RT/CH	10/30/97	U.S. ALUMINUM CORP.	T-31701 | B
				SILL-OUTSIDE GL2 6" FF SYSTEM / MAMO	1/9/96
				FF783 / FULL SIZE	



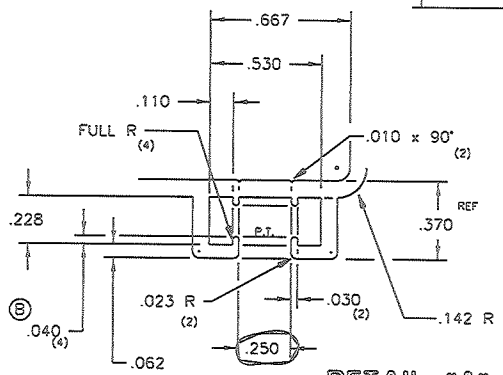
NOTES:

1. MATES W/M-116, DIE #31376
   W/FF701, DIE #31689
2. PAINT PERIMETER: 6.230"
3. THERMO DETAIL AREA: .132; "AA"
4. DEBRIDGE WITH A .218 WIDE
   x .015 MAX PENETRATION INTO
   THERMO MATERIAL.
5. XXX INDICATES I.D. MARK FOR IEC-TX
6. F & D PART NO. IS FT783



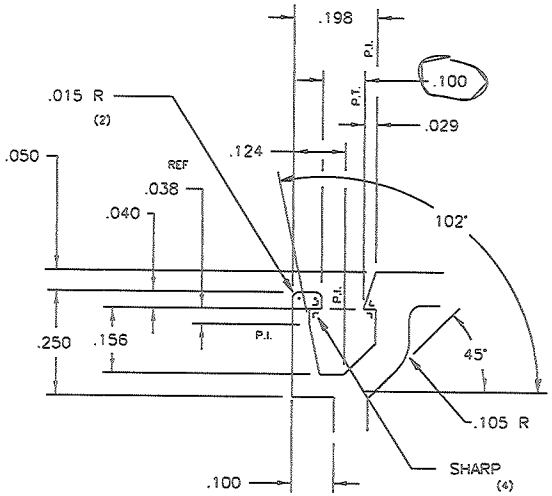
SCREW RACE DETAIL

SCALE: 4X SIZE (2 PLACES)



DETAIL "A"

SCALE: 2X SIZE



GASKET POCKET DETAIL

SCALE: 4X SIZE

SECTION PROPERTIES:

Ixx = 3.551 in 4
Sxx = 1.164 in 3
Iyy = 0.300 in 4
Syy = 0.281 in 3

12x1 1/2 W/P 12x1 1/2DIE NO STEP

☐ CA
☒ TX

,080

.923 Ⓑ	P-26208	1 WP 31701
1.108 Ⓑ	6.174	12x31701
23.363 Ⓑ	SOLID	31693
21	8 = 58 /SUE	T-31701 | B

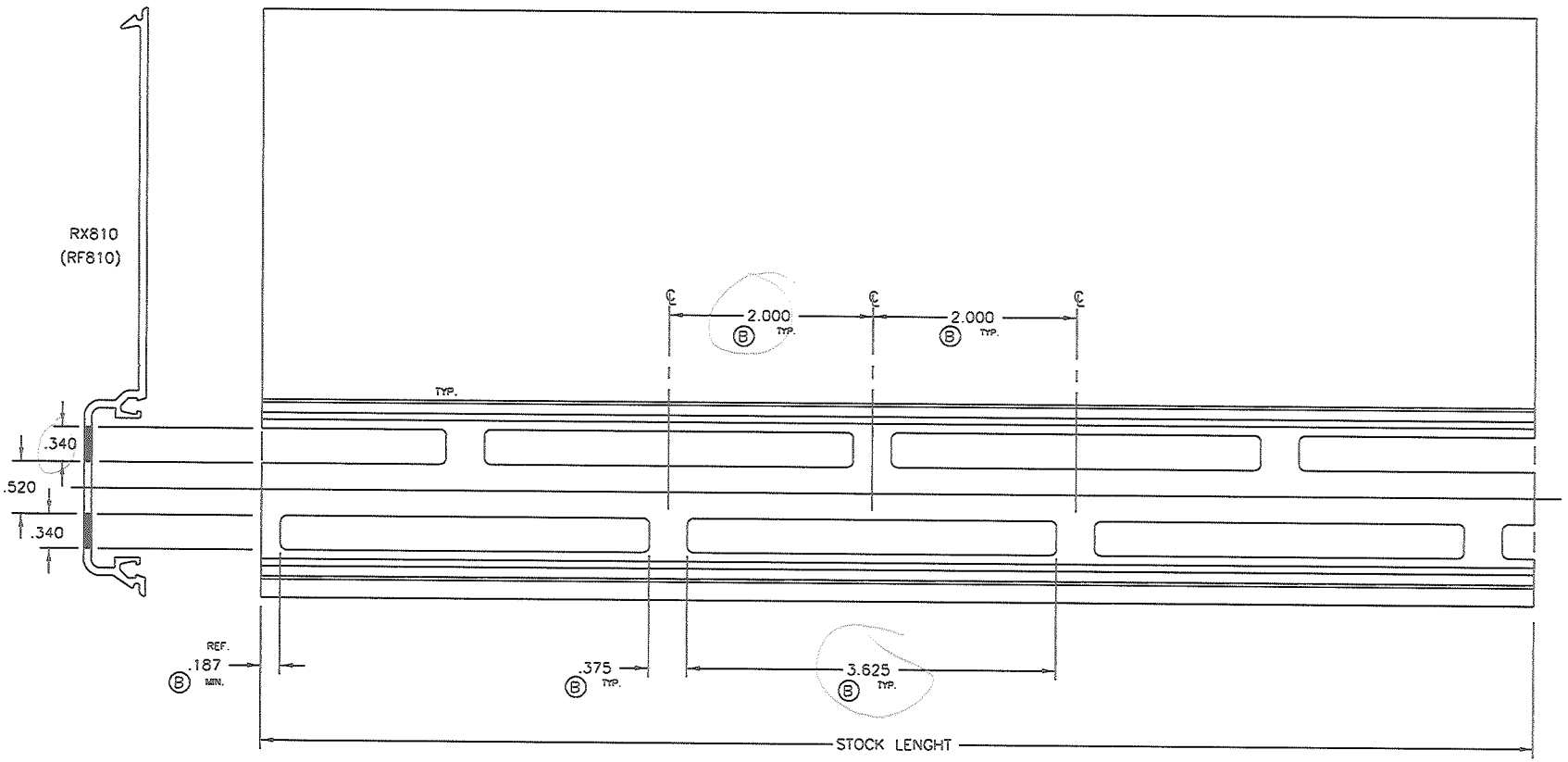
Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 93419.01

Date 03/12/97 Tech BWG

USA–2061 B



MADE FROM: RF810

				U.S. ALUMINUM CORP.	
				GLH	FABRICATION RX810
B	REV. SLOT SIZE & SPACING ECN 2000-110	8-3-00	GLH	6-27-00	THERMAL IMPROVEMENT NOTCH PATTERN
				FULL SIZE	USA–2061 B

Architectural Testing

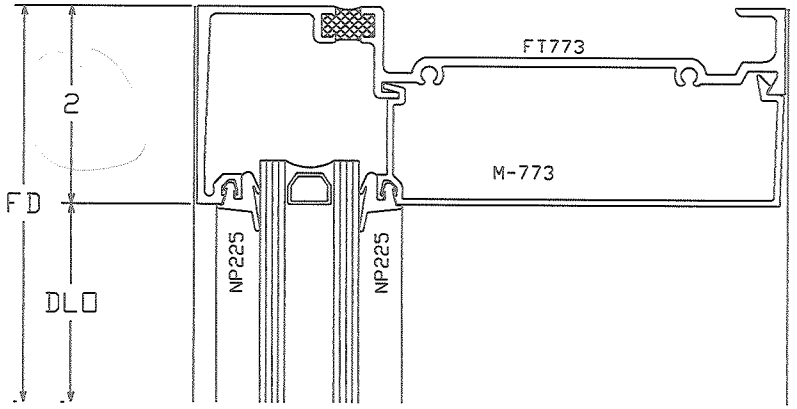
Test sample complies with these details.
Deviations are noted.

Report# 9349.01

Date 8/12/01 Tech BWG

SYM	REVISION	DATE	BY

1



THIS SPACE RESERVED FOR STRUCTURAL ENGINEER

THIS SPACE RESERVED FOR METRO-DADE USE ONLY

United States Aluminum
720 Cel-River Road
Rock Hill, SC 29730
200 Singleton Drive
Waxahachie, TX 75165

DRAWN BY	SYSTEM
DCW	SERIES FT601
DATE	6" FLUSH OUT
03.12.09	STOREFRONT
APPVD BY	DESCRIPTION
	DETAILS
SCALE	DRAWING NO. / SHEET
FULL	USA-3104 / 3 OF 7

SUBSIDIARY OF INTERNATIONAL ALUMINUM CORPORATION

Architectural Testing

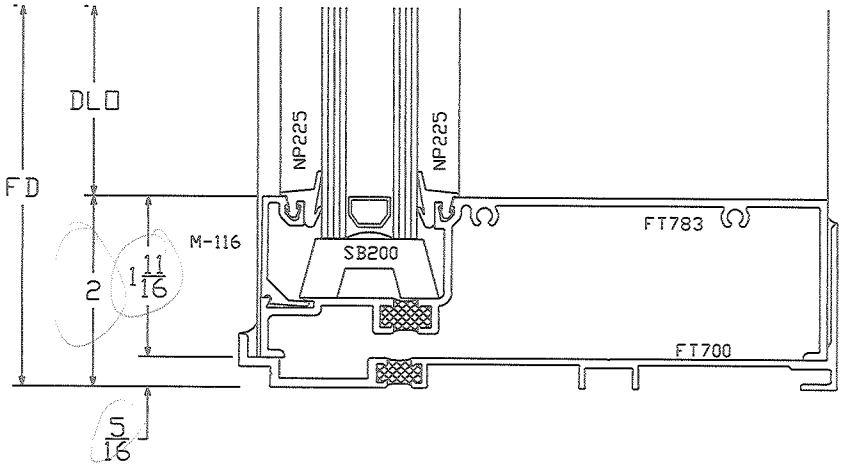
Test sample complies with these details.
Deviations are noted.

Report# 93410.01

Date 08/18/09 Tech DWG

SYM	REVISION	DATE	BY

(2)



THIS SPACE RESERVED FOR STRUCTURAL ENGINEER

THIS SPACE RESERVED FOR METRO-DADE USE ONLY

United States Aluminum
720 Cat-River Road
Rock Hill, SC 29730
200 Singleton Drive
Waxahachie, TX 75165

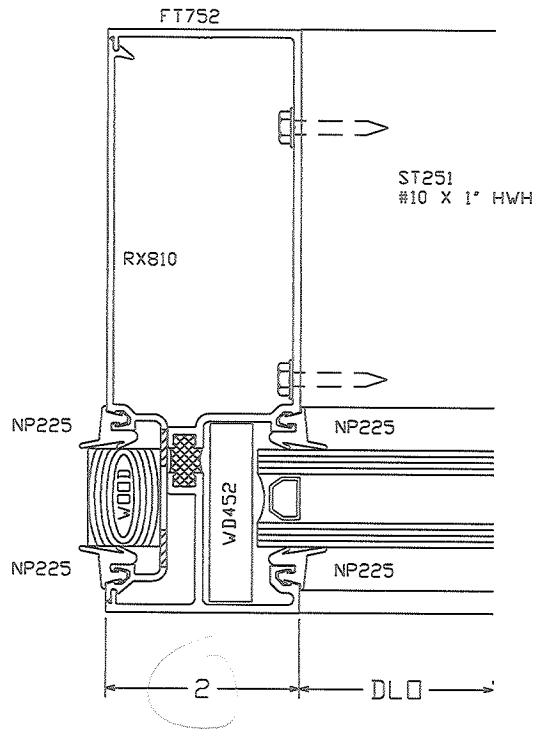
DRAWN BY: DCW	SYSTEM: SERIES FT601 6" FLUSH OUT STOREFRONT
DATE: 03.12.09	
APPVD BY:	DESCRIPTION: DETAILS
SCALE: FULL	DRAWING NO.: USA-3104 SHEET: 4 OF 7

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 03419.01

Date 08/12/10 Tech BWG



3

SYM	REVISION	DATE	BY

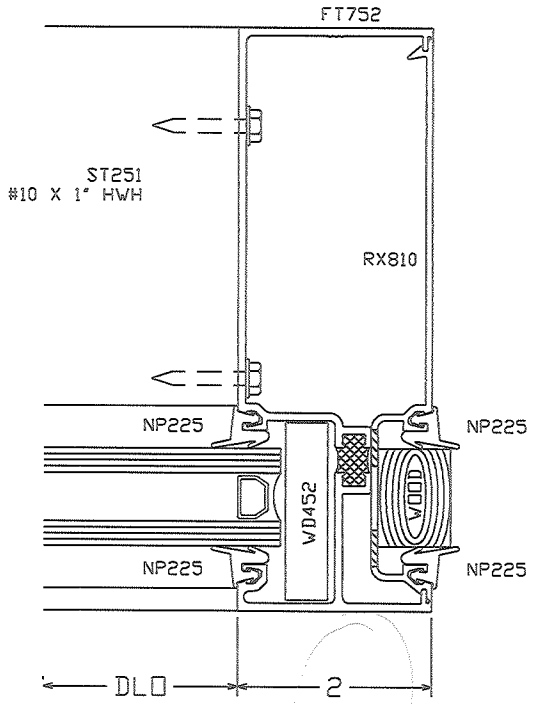
THIS SPACE RESERVED FOR STRUCTURAL ENGINEER

THIS SPACE RESERVED FOR RETRO-DADE USE ONLY

United States Aluminum
720 Cel-River Road
Rock Hill, SC 29730
200 Singleton Drive
Waxahachie, TX 75165

DRAWN BY: DCW	SYSTEM: SERIES FT601 6" FLUSH OUT STOREFRONT
DATE: 03.12.09	
APPVD BY:	DESCRIPTION: DETAILS
SCALE: FULL	DRAWING NO: USA-3104 — SHEET: 5 OF 7

SYM	REVISION	DATE	BY



5

THIS SPACE RESERVED FOR STRUCTURAL ENGINEER

THIS SPACE RESERVED FOR METRO-DADE USE ONLY

United States Aluminum
720 Cat-River Road
Rock Hill, SC 29730
200 Singleton Drive
Waxahachie, TX 75165

DRAWN BY: DCW	SYSTEM: SERIES FT601 6" FLUSH OUT STOREFRONT
DATE: 03.12.09	
APPVD BY:	DESCRIPTION: DETAILS
SCALE: FULL	DRAWING NO.: USA-3104
	SHEET: 7 OF 7

SUBSIDIARY OF INTERNATIONAL ALUMINUM CORPORATION

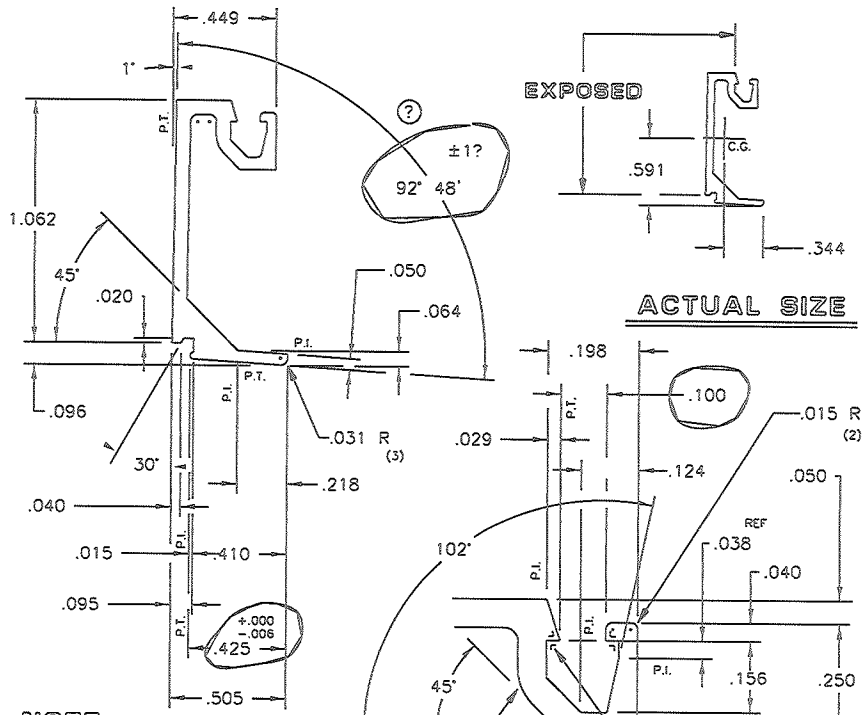
Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 03419.01

Date 03/12/09 Tech BWo

?	tol added to i.s.angle	MM	10/13 93	U.S. ALUMINUM CORP.		T-31348
				EXT GLS STOP	MAMO	6/21/93
				M-116	2X SIZE	



NOTES

1. MATES W/FH553; DIE #31350
   W/FF583; DIE #31363
2. PAINT PERIMETER: 1.297"

GASKET POCKET DETAIL

SCALE: 4X SIZE 9x1 1/4DIE NO STEP

.062

.154	P-21779	
.185	1.300	
4.713	SOLID	
26		T-31348

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 93419.01

Date 08/12/97 Tech GMB