

AAMA 507-07 THERMAL PERFORMANCE REPORT

Rendered to:

UNITED STATES ALUMINUM

SERIES/MODEL: 8200 Horizontal Slider

TYPE: Horizontal Slider

Report No: A5501.01-116-45
Report Date: 12/02/10



AAMA 507-07 THERMAL PERFORMANCE REPORT

Rendered to:

UNITED STATES ALUMINUM
200 Singleton Drive
Waxahachie, Texas 75165

Report No: A5501.01-116-45
Report Date: 12/02/10
Simulation Date: 12/02/10

Project Summary:

Architectural Testing, Inc. (ATI) was contracted by United States Aluminum to provide U-Factor and Solar Heat Gain Coefficient thermal performance ratings on the 8200 Horizontal Slider - Horizontal Slider. The thermal performance ratings were determined in accordance with AAMA 507-07, *Standard Practice for Determining the Thermal Performance Characteristics of Fenestration Systems Installed in Commercial Building*.

Reference Documents:

AAMA 507-07, *Standard Practice for Determining the Thermal Performance Characteristics of Fenestration Systems Installed in Commercial Buildings*

NFRC 100-2010, *Procedure for Determining Fenestration Product U-Factors*

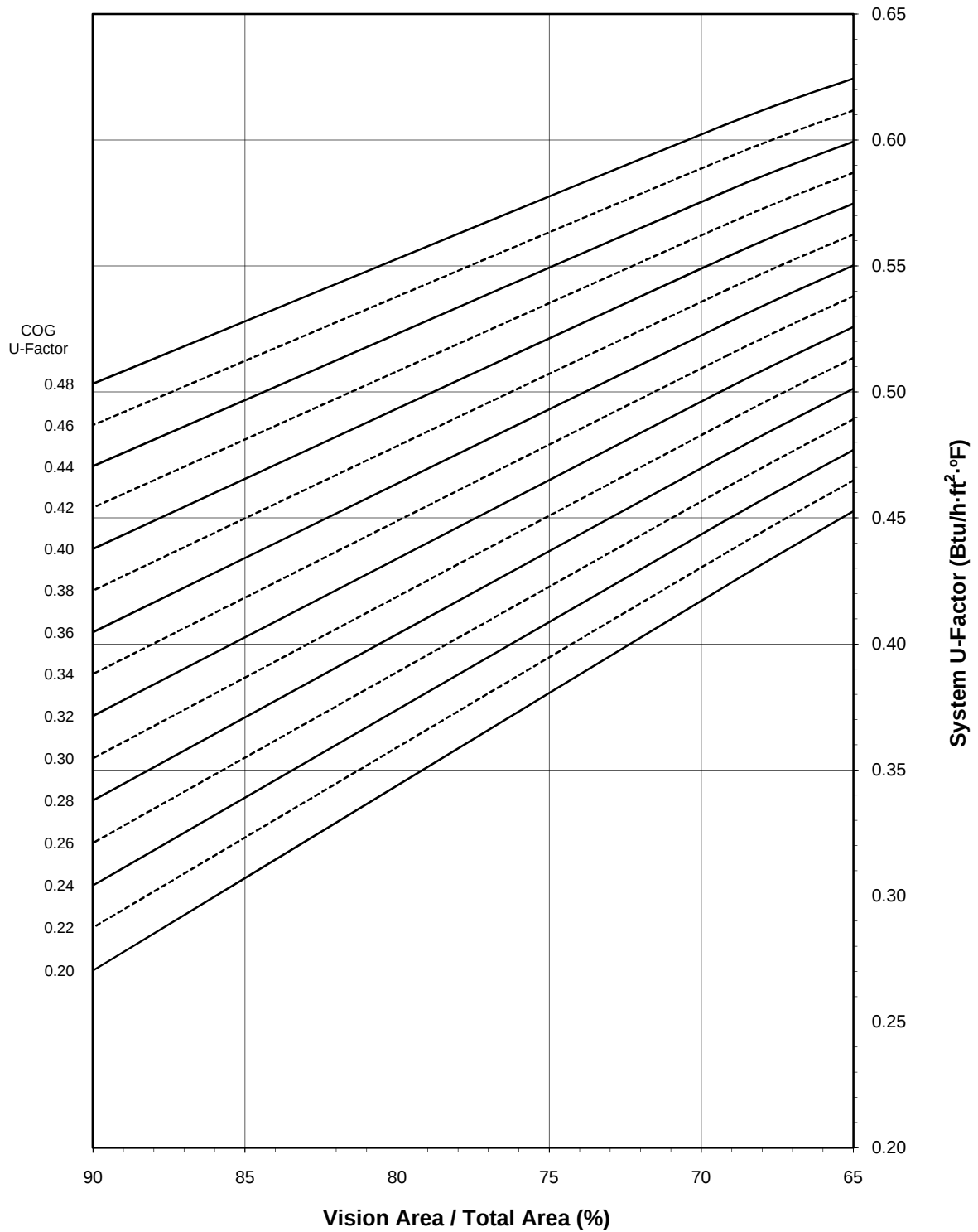
NFRC 200-2010, *Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence*

Simulation Specimen Description:

Series/Model:	8200 Horizontal Slider
Type:	Horizontal Slider
Frame Material:	Thermally Broken Aluminum Framing System
Specimen Size:	1500mm wide by 1200mm high (59-1/16" by 47-1/4")
Configuration:	Two vision lites - OX
Drawing Reference:	United States Aluminum Drawing: 8200HS-001(1-4) dated: 08/15/10

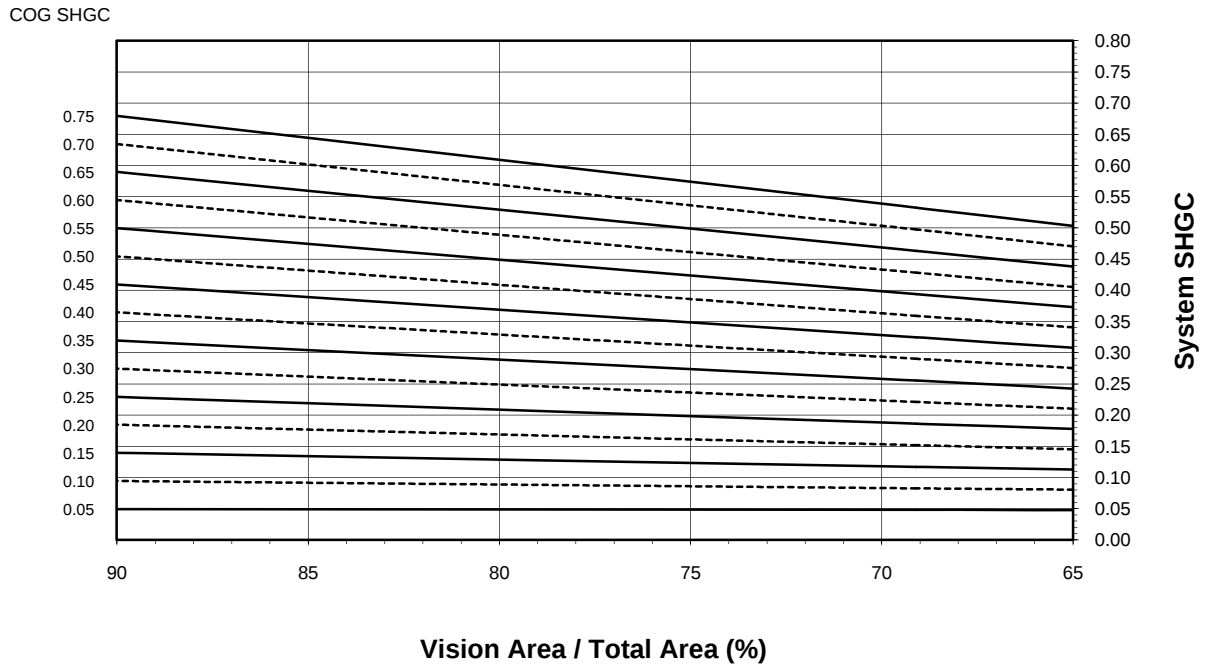
United States Aluminum
8200 Horizontal Slider - Horizontal Slider

System U-Factor vs. Percentage of Vision Area

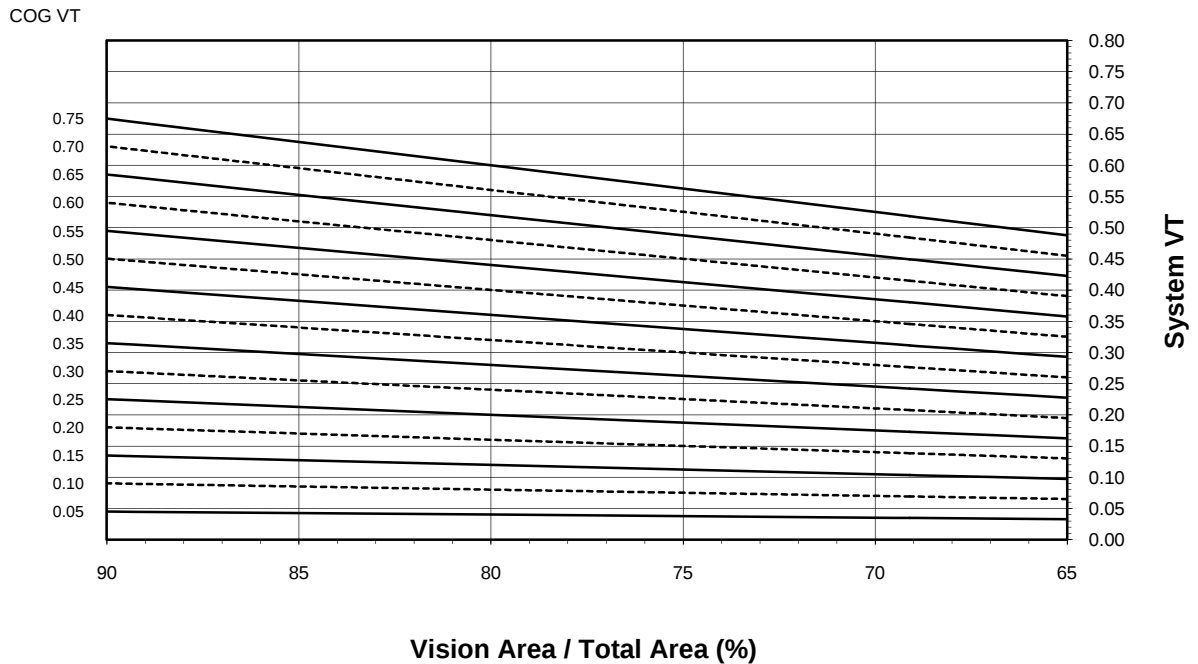


United States Aluminum
8200 Horizontal Slider - Horizontal Slider

System SHGC vs. Percentage of Vision Area



System VT vs. Percentage of Vision Area



**United States Aluminum
8200 Horizontal Slider - Horizontal Slider**

Size Specific U-Factor Matrix*

Glazing Option	Center of Glass U-Factor	Overall U-Factor
1	0.48	0.61
2	0.46	0.59
3	0.44	0.58
4	0.42	0.57
5	0.40	0.55
6	0.38	0.54
7	0.36	0.53
8	0.34	0.51
9	0.32	0.50
10	0.30	0.49
11	0.28	0.48
12	0.26	0.46
13	0.24	0.45
14	0.22	0.44
15	0.20	0.42

Size Specific SHGC Matrix*

Center of Glass SHGC	Overall SHGC
0.75	0.53
0.70	0.50
0.65	0.46
0.60	0.43
0.55	0.39
0.50	0.36
0.45	0.32
0.40	0.29
0.35	0.26
0.30	0.22
0.25	0.19
0.20	0.15
0.15	0.12
0.10	0.08
0.05	0.05

Size Specific VT Matrix*

Center of Glass VT	Overall VT
0.75	0.52
0.70	0.48
0.65	0.45
0.60	0.41
0.55	0.38
0.50	0.35
0.45	0.31
0.40	0.28
0.35	0.24
0.30	0.21
0.25	0.17
0.20	0.14
0.15	0.10
0.10	0.07
0.05	0.03

*Size Specific U-Factor, SHGC, and VT Matrices are based on the standard Horizontal Slider specimen size of 1500mm wide by 1200mm high (59-1/16" by 47-1/4"). This represents 69.1% Vision Area / Total Area.

Vision Area Data

Option No.	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							65% Vision Area	NFRC 100-2010	90% Vision Area
							51.38" by 41.10"	59.06" by 47.24"	193.50" by 154.80"
1	0.48	43.7	Ext. Head	3.2810	0.8613	0.5429	0.6244	0.6064	0.5033
			Int. Head	3.2810	0.6931	0.4939			
			Ext. Sill	5.9040	0.9345	0.5415			
			Int. Sill	5.9040	0.6988	0.4863			
			Mtg. Stile	3.3838	1.1035	0.4649			
			Int. Jamb	2.8870	0.9000	0.4631			
			Ext. Jamb	2.1010	1.0301	0.5133			
2	0.46	44.8	Ext. Head	3.2810	0.8611	0.5284	0.6118	0.5930	0.4869
			Int. Head	3.2810	0.6911	0.4781			
			Ext. Sill	5.9040	0.9341	0.5270			
			Int. Sill	5.9040	0.6974	0.4705			
			Mtg. Stile	3.3838	1.0957	0.4490			
			Int. Jamb	2.8870	0.8972	0.4475			
			Ext. Jamb	2.1010	1.0302	0.4990			
3	0.44	45.8	Ext. Head	3.2810	0.8609	0.5140	0.5994	0.5799	0.4705
			Int. Head	3.2810	0.6893	0.4624			
			Ext. Sill	5.9040	0.9340	0.5125			
			Int. Sill	5.9040	0.6962	0.4546			
			Mtg. Stile	3.3838	1.0916	0.4334			
			Int. Jamb	2.8870	0.8949	0.4318			
			Ext. Jamb	2.1010	1.0303	0.4847			
4	0.42	46.8	Ext. Head	3.2810	0.8607	0.4997	0.5871	0.5668	0.4541
			Int. Head	3.2810	0.6875	0.4468			
			Ext. Sill	5.9040	0.9339	0.4982			
			Int. Sill	5.9040	0.6950	0.4389			
			Mtg. Stile	3.3838	1.0873	0.4178			
			Int. Jamb	2.8870	0.8927	0.4164			
			Ext. Jamb	2.1010	1.0305	0.4706			
5	0.40	47.9	Ext. Head	3.2810	0.8606	0.4854	0.5747	0.5537	0.4377
			Int. Head	3.2810	0.6857	0.4313			
			Ext. Sill	5.9040	0.9338	0.4839			
			Int. Sill	5.9040	0.6938	0.4233			
			Mtg. Stile	3.3838	1.0833	0.4023			
			Int. Jamb	2.8870	0.8904	0.4010			
			Ext. Jamb	2.1010	1.0307	0.4565			

Vision Area Data

Option No.	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							65% Vision Area	NFRC 100-2010	90% Vision Area
							51.38" by 41.10"	59.06" by 47.24"	193.50" by 154.80"
6	0.38	48.9	Ext. Head	3.2810	0.8604	0.4712	0.5625	0.5406	0.4212
			Int. Head	3.2810	0.6840	0.4159			
			Ext. Sill	5.9040	0.9337	0.4698			
			Int. Sill	5.9040	0.6926	0.4079			
			Mtg. Stile	3.3838	1.0793	0.3870			
			Int. Jamb	2.8870	0.8883	0.3858			
			Ext. Jamb	2.1010	1.0308	0.4425			
7	0.36	50.0	Ext. Head	3.2810	0.8603	0.4570	0.5502	0.5275	0.4046
			Int. Head	3.2810	0.6822	0.4005			
			Ext. Sill	5.9040	0.9336	0.4556			
			Int. Sill	5.9040	0.6915	0.3924			
			Mtg. Stile	3.3838	1.0753	0.3716			
			Int. Jamb	2.8870	0.8861	0.3706			
			Ext. Jamb	2.1010	1.0310	0.4285			
8	0.34	51.0	Ext. Head	3.2810	0.8601	0.4431	0.5380	0.5145	0.3880
			Int. Head	3.2810	0.6806	0.3854			
			Ext. Sill	5.9040	0.9336	0.4416			
			Int. Sill	5.9040	0.6903	0.3772			
			Mtg. Stile	3.3838	1.0715	0.3565			
			Int. Jamb	2.8870	0.8840	0.3556			
			Ext. Jamb	2.1010	1.0312	0.4147			
9	0.32	52.0	Ext. Head	3.2810	0.8600	0.4290	0.5258	0.5015	0.3714
			Int. Head	3.2810	0.6789	0.3701			
			Ext. Sill	5.9040	0.9335	0.4275			
			Int. Sill	5.9040	0.6892	0.3618			
			Mtg. Stile	3.3838	1.0677	0.3411			
			Int. Jamb	2.8870	0.8819	0.3405			
			Ext. Jamb	2.1010	1.0314	0.4007			
10	0.30	53.1	Ext. Head	3.2810	0.8564	0.4150	0.5135	0.4884	0.3546
			Int. Head	3.2810	0.6773	0.3551			
			Ext. Sill	5.9040	0.9334	0.4136			
			Int. Sill	5.9040	0.6881	0.3468			
			Mtg. Stile	3.3838	1.0641	0.3261			
			Int. Jamb	2.8870	0.8799	0.3256			
			Ext. Jamb	2.1010	1.0317	0.3870			

Vision Area Data

Option No.	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							65% Vision Area	NFRC 100-2010	90% Vision Area
							51.38" by 41.10"	59.06" by 47.24"	193.50" by 154.80"
11	0.28	54.2	Ext. Head	3.2810	0.8563	0.4010	0.5013	0.4754	0.3378
			Int. Head	3.2810	0.6757	0.3400			
			Ext. Sill	5.9040	0.9334	0.3996			
			Int. Sill	5.9040	0.6870	0.3316			
			Mtg. Stile	3.3838	1.0604	0.3110			
			Int. Jamb	2.8870	0.8779	0.3106			
			Ext. Jamb	2.1010	1.0319	0.3732			
12	0.26	55.2	Ext. Head	3.2810	0.8561	0.3871	0.4892	0.4624	0.3210
			Int. Head	3.2810	0.6741	0.3250			
			Ext. Sill	5.9040	0.9333	0.3858			
			Int. Sill	5.9040	0.6860	0.3165			
			Mtg. Stile	3.3838	1.0568	0.2960			
			Int. Jamb	2.8870	0.8759	0.2958			
			Ext. Jamb	2.1010	1.0322	0.3594			
13	0.24	56.3	Ext. Head	3.2810	0.8560	0.3732	0.4770	0.4494	0.3042
			Int. Head	3.2810	0.6725	0.3101			
			Ext. Sill	5.9040	0.9332	0.3719			
			Int. Sill	5.9040	0.6849	0.3016			
			Mtg. Stile	3.3838	1.0523	0.2810			
			Int. Jamb	2.8870	0.8739	0.2810			
			Ext. Jamb	2.1010	1.0325	0.3457			
14	0.22	57.3	Ext. Head	3.2810	0.8559	0.3595	0.4649	0.4364	0.2874
			Int. Head	3.2810	0.6708	0.2953			
			Ext. Sill	5.9040	0.9332	0.3582			
			Int. Sill	5.9040	0.6839	0.2867			
			Mtg. Stile	3.3838	1.0489	0.2662			
			Int. Jamb	2.8870	0.8720	0.2663			
			Ext. Jamb	2.1010	1.0327	0.3321			
15	0.20	58.4	Ext. Head	3.2810	0.8558	0.3457	0.4526	0.4234	0.2704
			Int. Head	3.2810	0.6693	0.2805			
			Ext. Sill	5.9040	0.9331	0.3444			
			Int. Sill	5.9040	0.6806	0.2714			
			Mtg. Stile	3.3838	1.0456	0.2514			
			Int. Jamb	2.8870	0.8701	0.2517			
			Ext. Jamb	2.1010	1.0330	0.3185			

Detailed drawings, datasheets, representative samples of test specimens, a copy of this report, or 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 by Architectural Testing will expire. Results obtained are simulated 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 named herein and relates only to the specimen(s) simulated. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.:

SIMULATED BY:

REVIEWED BY:

Jason Mitzel
Simulation Technician

Kevin S. Louder
Project Engineer

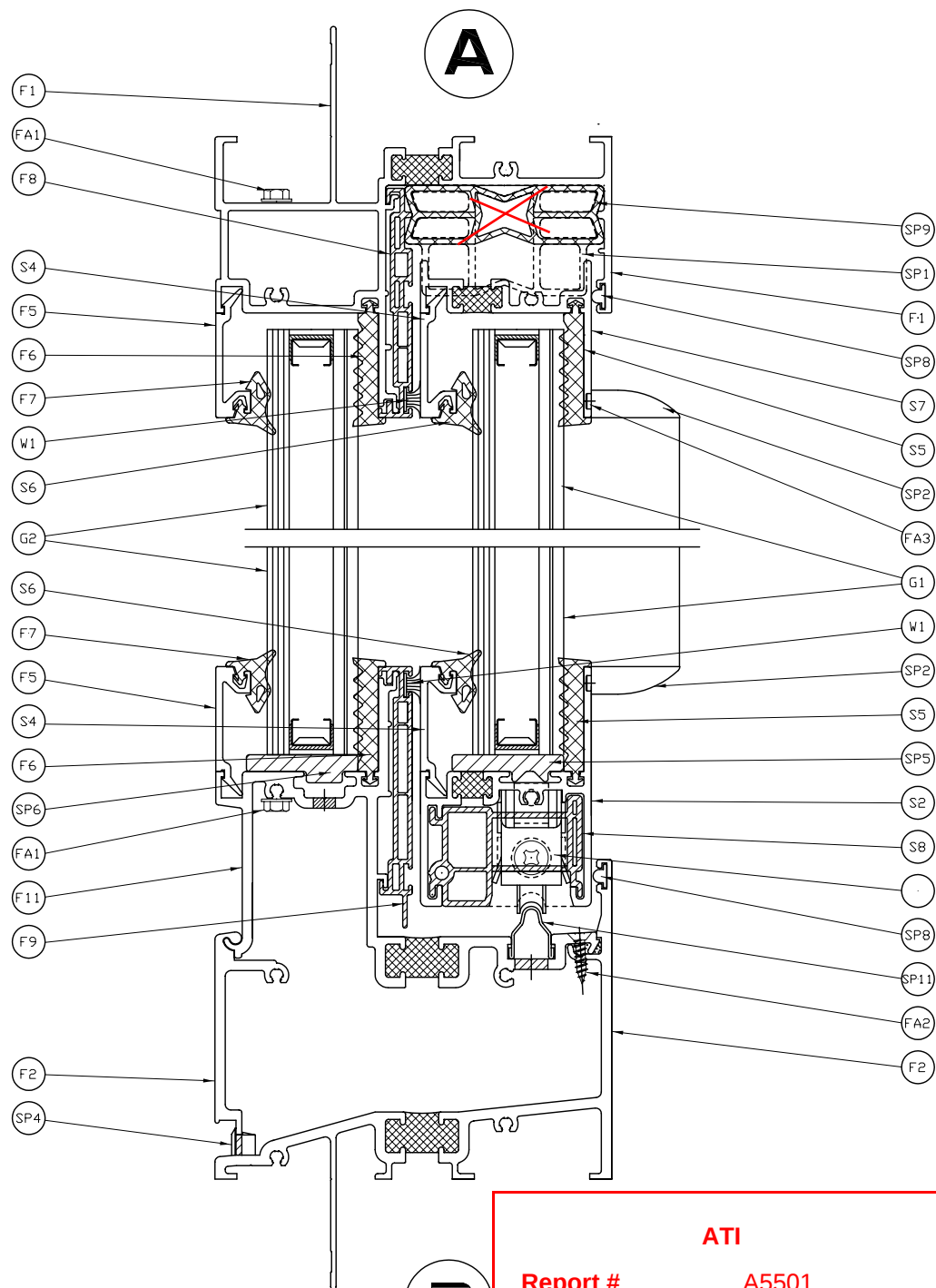
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Attachments (pages): This report is complete only when all attachments are included.
Appendix A: Drawings and Bills of Material (26)

Revision Log

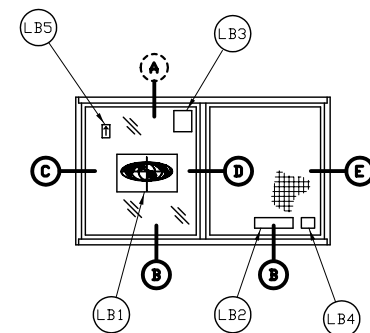
<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
.01 R0	12/2/2010	All	Original Report Issue

All drawings and Bills of Material used in simulating this product are enclosed in this Appendix.

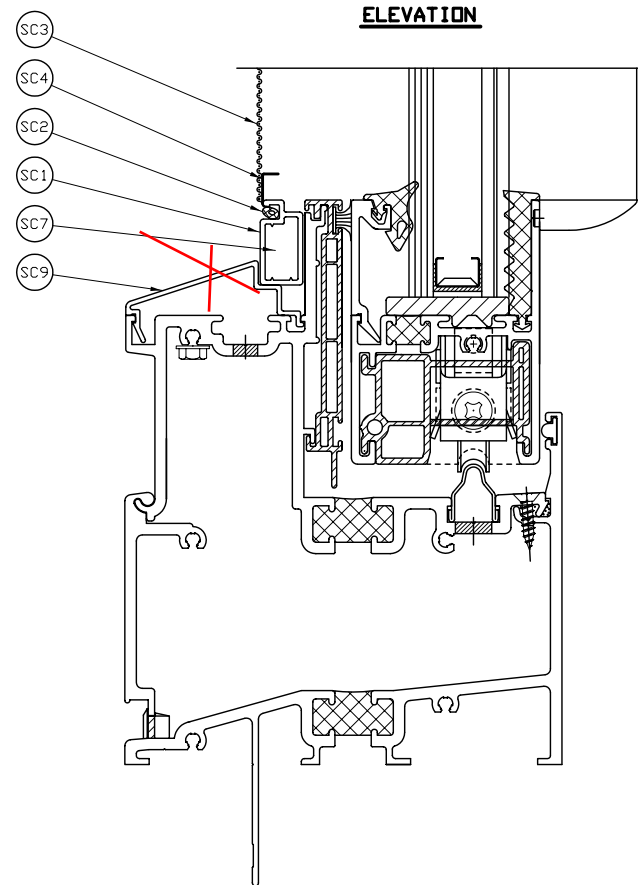


B

ATI
Report # A5501
Date 12/6/10
Simulator Jason A. Miguel



ELEVATION



U.S. ALUMINUM CORPORATION

Willie C.
08/15/10
FULL SIZE

HORIZONTAL WINDOW
LAYOUT (XO)
(SERIES 8200,
HS, DPER, DWGS.)

8200HS-001
3 of 4



Simulator *Jason A. Mitchell*

of 4

BILL OF MATERIALS FOR 8200 SERIES HORIZONTAL SLIDE WINDOW

									FINISHES		
ITEM #		EXTRUSION #	PART: NO	DESCRIPTION	COMMENTS	VENDDR	VENDOR PART NUMBER	QTY..	CLASS 1 CLEAR	BRONZE	
F1	FRAME	61616	HS801	FRAME FIN HEAD	COLOR TO MATCH P. D.	INTEX	61616	1			
F2		61617	HS803	FRAME FIN SILL	COLOR TO MATCH P. D.	INTEX	61617	1			
F3		61619	HS805	FRAME FIN JAMB	COLOR TO MATCH P. D.	INTEX	61619	2			
F4		61596	SH866	MULLION	COLOR TO MATCH P. D.	INTEX	61596	1			
F5		61595	SH865	GLAZING BEAD (BLAST)	COLOR TO MATCH P. D.	INTEX	61595	4			
F6			NP881	INTERIOR GLAZING GASKET		TREMCO	TX18058E	4	BLACK		
F7			NP825	EXTERIOR GLAZING GASKET		TREMCO	TR-14677E	4	BLACK		
F8			WH838	HEAD PVC ISOLATOR		TEK PARTS/BANDLOCK	WH838	1	GRAY H-81414 4X 'C' (SEE NOTE# 3)	BLACK #C103850	
F9			WH841	SILL PVC ISOLATOR		TEK PARTS/BANDLOCK	WH841	1	GRAY H-81414 4X 'C' (SEE NOTE# 3)	BLACK #C103850	
F10			WH809	JAMB PVC ISOLATOR		TEK PARTS/BANDLOCK		2	GRAY H-81414 4X 'C' (SEE NOTE# 3)	BLACK #C103850	
F11		61618	HS804	SILL INSERT	COLOR TO MATCH P. D.	INTEX	61618	1			
F12		61608	PW803	JAMB COVER		INTEX	61618	1			
S1	SASH	61622	HS854	INTERLOCK	COLOR MATCH TO P. D.	INTEX	61622	1			
S2		61621	HS813	BOTTOM RAIL	COLOR MATCH TO P. D.	INTEX	61621	1			
S3		61632	HS815	VENT STILE	COLOR MATCH TO P. D.	INTEX	61532	2			
S4		61595	SH865	GLAZING BEAD (BLAST)	COLOR MATCH TO P. D.	INTEX	61595	4			
S5			NP881	INTERIOR GLAZING GASKET		TREMCO	TX18058E	4	BLACK		
S6			NP825	EXTERIOR GLAZING GASKET		TREMCO	TR-14677E	4	BLACK		
S7		61620	HS811	TOP RAIL	COLOR MATCH TO P. D.	INTEX	61620	1			
S8			WH843	BOTTOM RAIL ISOLATOR				1			
SC1		SCREEN	H-8044	CC676	EXTRUDED SCREEN FRAME		RITE SCREEN	H-8044	4	CLASS 1 CLEAR	BRONZE
SC2			WH59100	SCREEN SPLINE		RITE SCREEN		4	BLACK	BLACK	
SC3			WH43616	18 x 16 FIBERGLASS SCREEN MESH		RITE SCREEN		1	DARK CHARCOAL OR BLACK	DARK CHARCOAL OR BLACK	
SC4			WH451	SCREEN TAB		RITE SCREEN		2	ANODIZED	BLACK	
SC5			WH452	SCREEN TENSION SPRING		RITE SCREEN		2			
SC6			LU802	SCREEN LABEL		RITE SCREEN		1			
SC7			WH581	SCREEN CORNER ANGLE		RITE SCREEN		4			
SC8	61635		HS836	SCREEN FRAME JAMB		INTEX	61635	1			
SC9	61634		HS835	SCREEN FRAME SILL		INTEX	61634	1			

61601 Impact Glazing Bead
WH344 Impact Exterior Glazing Gasket

NOTE:

1. ALL PARTS MUST BE U. S. MADE.
2. ALL NYLON MOLDED PARTS TO MATCH WITH CLEAR ANODIZING TO BE GR21 (PRESSOUT CHIP IS C58K756N) FROM:

COLOR SCIENCE
1230 E GLENWOOD PLACE
SANTA ANA, CA 92707-3000
714/434-1033

3. COLOR: L = +71.60
a = -0.50
b = -0.66

ATI

Report # A5501Date 12/6/10

Simulator 

UNITED STATES ALUMINUM CORP.

WILLIE C.

08/18/10

BILL OF MATERIALS
FOR 8200 SERIES HS
(SERIES 8200HS)

8200HS-001

1 of 4

BILL OF MATERIALS FOR 8200 SERIES HORIZONTAL SLIDE WINDOW

									FINISHES	
ITEM #		EXTRUSION #	PART NO	DESCRIPTION	COMMENTS	VENDDR	VENDOR PART NUMBER	QTY..	CLASS 1 CLEAR	BRONZE
SP1	SMALL PARTS			VENT STOP		PETERSON MOLD		2	MEDIUM GRAY (NOTE 2)	BLACK
SP2			WH803	SASH PULL END CAP		PETERSON MOLD		4	MEDIUM GRAY (NOTE 2)	BLACK
SP3			SP083	TOP BUTTON PLUG				A/R	BLACK	BLACK
SP4			WH276	WEEP HOLE COVER		ASTRO EJECTION MOLDING		2	MEDIUM GRAY (NOTE 2)	BLACK
SP5				SASH SETTING BLOCK		TREMCO	TX18060E	2	BLACK	
SP6				FIXED SETTING BLOCK		TREMCO	TX18059E	2	BLACK	
SP7				EDGE BLOCK	FIXED AND VENT PANEL	TREMCO		4	MEDIUM GRAY (NOTE 2)	BLACK
SP8			R1125	PVC GUIDE						
SP9			WH852	ANT-LIFT						
SP10			SP084	BOTTOM BUTTON PLUG						
SP11				STEEL TRACK		NOR STAR	NS589	1		
W1	WEATHERSTRIP		W-027	.270 x .250 TRI-FIN	USED AT JAMBS (2), SILL (1), MULLION (1) AND INTERLOCK (1)	ULTRA FAB		A/R	GRAY	BLACK
G1	GLASS		GL103115129	1.032 INSULATED BLAST GLASS (.250 + 1/2" + 1/8" + .030 PVB + 1/8")	VENT GLASS			1		
G2			GL103115429	1.032 INSULATED BLAST GLASS (.250 + 1/2" + 1/8" + .030 PVB + 1/8")	FIXED GLASS			1		
FA1	FASTENERS		ST212	#8 x 1-1/4" PHIL HEX WASHER HD SMS A SS	MULLION (4)			4		
FA2				#6 x 1/2" PHIL FLAT HD SMS SS	SILL INSERT			2		
FA3			MS121	#8-32 x 1/4" PHIL FLAT HD UNDERCUT SMS SS	LATCH HOUSING (2)			2		
FA4			ST196(42)	#8 x 1" PHIL HEX WASHER HD SMS TYPE AB SS	FRAME (8) TOP RAIL (4) BOTTOM RAIL (8)			20		
FA5				#6 x 1/2" PHIL PAN HD SMS SS "A"						
H1	HARDWARE		61590	SH857	LATCH HOUSING	KENMAR/FABCO		2	SATIN NICKEL	SATIN NICKEL
H2			61591	SH858	SASH RELEASE LEVER	KENMAR/FABCO		2	SATIN NICKEL WITH CLEAR COAT	SATIN NICKEL WITH CLEAR COAT
H3			WH829		SS LATCH SPRING	KELLY TOOL & DIE		2		
H4			WH354		LOCK ASSEMBLY	ULTRA		1		
LB1	LABEL		LU801	USAC LOGO WITH INSTRUCTIONS		USAC PRINTER		1		
LB2			LU901	AAMA LABEL	AAMA CERT. + SECURITY TAB + NFRC TAP	ALI		1		
LB3			LU911	NFRC TEMPORARY LABEL		USAC/SC		1		
LB4			LU921	NFRC PERMIT LABEL		USAC PRINTER		1		
LB5			LB006	THIS SIDE UP LABEL		USAC PRINTER		1		

NOTE:

- ALL PARTS MUST BE U. S. MADE.
- ALL NYLON MOLDED PARTS TO MATCH WITH CLEAR ANODIZING TO BE GR21 (PRESSOUT CHIP IS C58K756N) FROM:

COLOR SCIENCE
1230 E GLENWOOD PLACE
SANTA ANA, CA 92707-3000
714/434-1033

ATI

Report # A5501

Date 12/6/10

Simulator *John A. Roper***UNITED STATES ALUMINUM CORP.**

Willie G.

08/18/10

BILL OF MATERIALS
FOR 8200 SERIES HS
(SERIES 8200HS)

8200HS-001
2 of 4

2 X SIZE

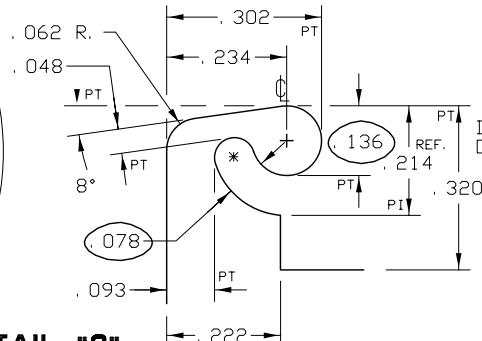
				U.S. ALUMINUM CORP.		T-61620	
				8000HS TOP RAIL	TER MEER	04/18/10	
				HS811	2 X SIZE		

ATI

Report # A5501

Date 12/6/10

Simulator *Jason R. Mifflin*



T-61617

TER MEER

05/26/10

FULL SIZE

1. 6063-T5 ALLOY AND TEMPER.
2. ASSEMBLES WITH HS804; DIE# 61618
3. PAINT PERIMETER: 6.054"
4. DEBRIDGE WITH A .375 x
.015 MAX PENETRATION INTO
THERMAL AREA.
5. THERMAL DETAIL AREA: .328, "EE"
6. INDICATES POSSIBLE STREAKS

12X2 DIE 1/2 RECESS			
☐ ☐		.118	
		1.799	C-1818 1
		2.159	5.861 12 X 61617
		35.335	SOLID 15x8.5 61617
		16	8" 29/PRESS 1 T-61617

ATI

Report # A5501

Date 12/6/10

Simulator *John A. Niguel*

U.S. ALUMINUM CORP.

H-61616

8200HS HEAD

TER MEER

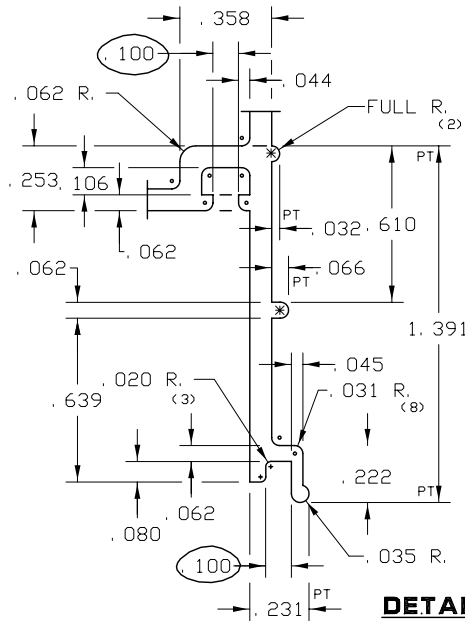
05/19/10

HS801

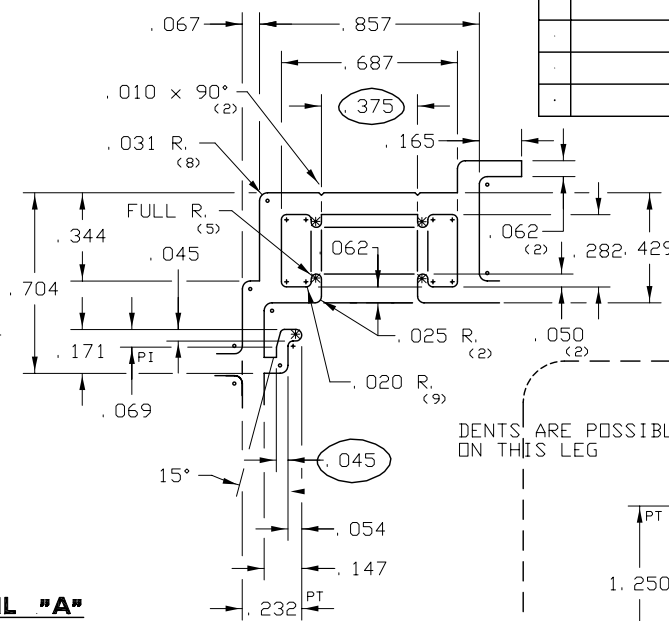
FULL SIZE

NOTES:

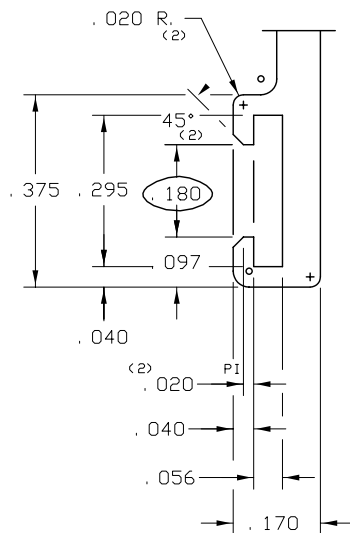
1. 6063-T5 ALLOY AND TEMPER.
2. ASSEMBLES WITH SH865; DIE# 61595
3. PAINT PERIMETER: 3.610"
4. DEBRIDGE WITH A .375" X .015 MAX PENETRATION INTO THERMAL AREA.
5. THERMAL DETAIL AREA: .209, "EE"
6. OUTSIDE PERIMETER: 30.488"
7. INDICATES POSSIBLE STREAKS



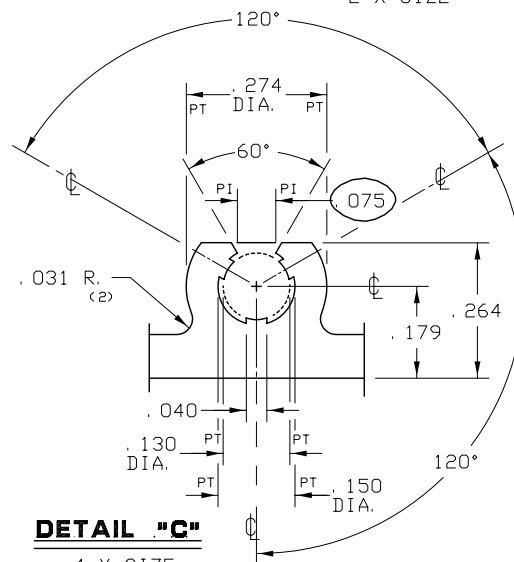
DETAIL "A"
2 X SIZE



DETAIL "B"
2 X SIZE

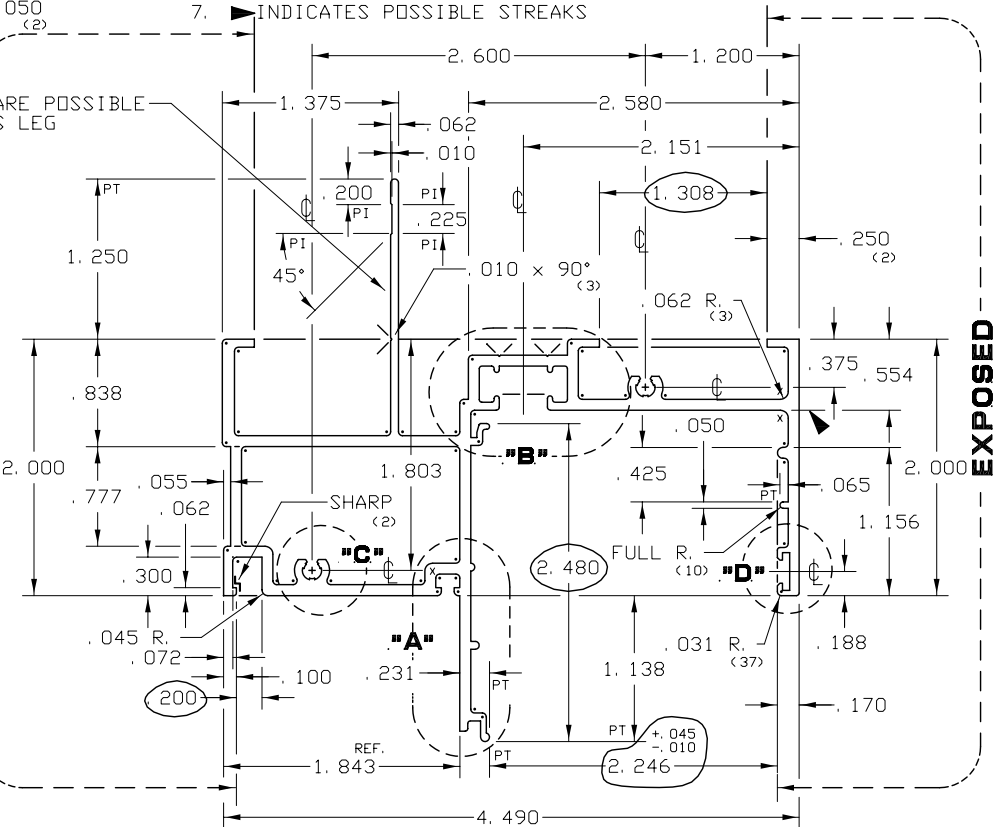


DETAIL "D"
4 X SIZE



DETAIL "C"
4 X SIZE
(SIM 2 PLACES)

EXPOSED



EXPOSED

ATI

Report # A5501

Date 12/6/10

Simulator Juan R. Magal

1.479

C-1817

1

1.775

4.958

PORTHOLE 12X6.5

36.690

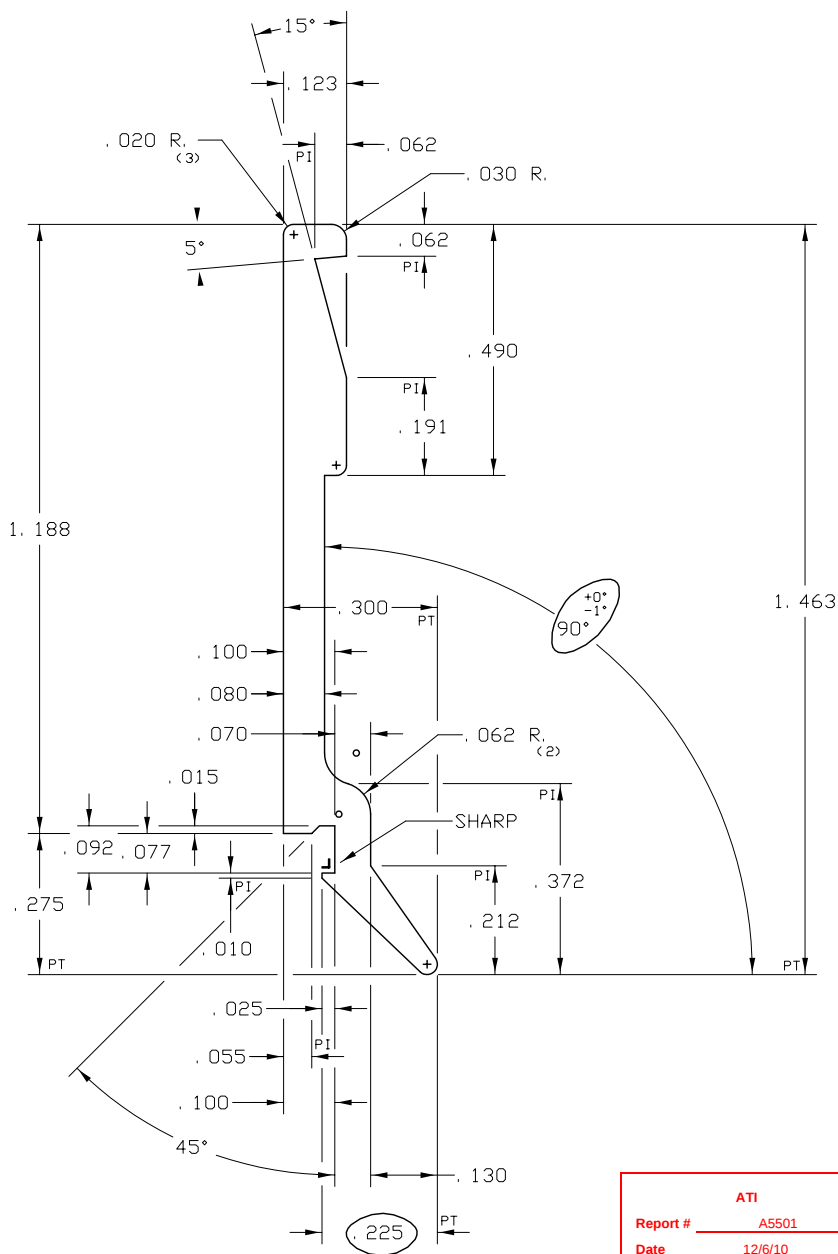
HOLLOW II

15X8.5 61616

21

8" 36/PRESS 4

H-61616



U.S. ALUMINUM CORP.

T-61601

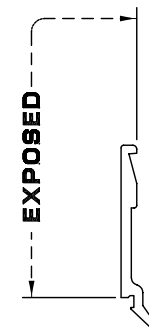
IMPACT GLAZING
BEAD

TER MEER

03/26/10

SH880

4 X SIZE



ACTUAL SIZE

NOTES:

- 6063-T5 ALLOY AND TEMPER.
- ASSEMBLES WITH SH881; DIE #
- PAINT PERIMETER: 1.319"

9X2 DIE 1/2 RECESS

ATI
Report # A5501
Date 12/6/10
Simulator *John R. Mangel*

.138

C-1807

5

.166

SOLID

9 X 14357

3.458

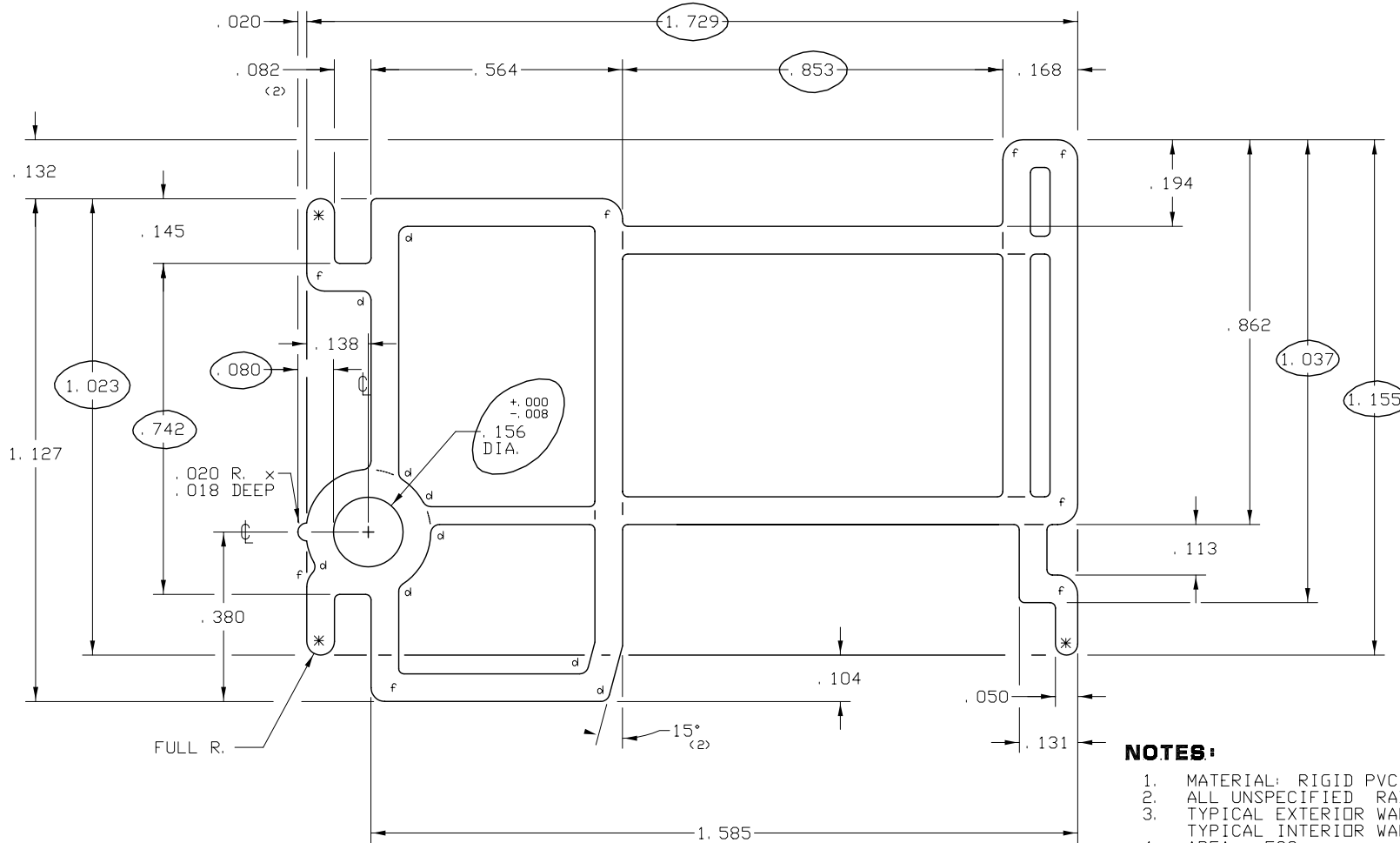
1.499

5-7

21

7" 59/PRESS 3

T-61601



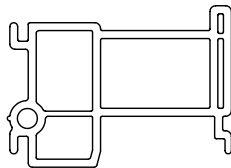
FULL R.

15°
(2)**NOTES:**

1. MATERIAL: RIGID PVC TO MEET AAMA 303-07
2. ALL UNSPECIFIED RADII = .012
3. TYPICAL EXTERIOR WALL THICKNESS: .062
TYPICAL INTERIOR WALL THICKNESS: .040
4. AREA: .502
5. MINIMUM SHEEN ALLOWED 56.0 USING A GARDNER MICRO-GLOSS 60° GLOSS METER.
6. TOLERANCE UNLESS OTHERWISE NOTED $\pm .012$
7. WALL THICKNESS TOLERANCE TO BE: $\pm .006$

RADIUS SCHEDULE

S - SHARP
 a - .006 R.
 b - .012 R.
 c - .015 R.
 d - .020 R.
 e - .030 R.
 f - .045 R.
 g - .060 R.

**ACTUAL SIZE**

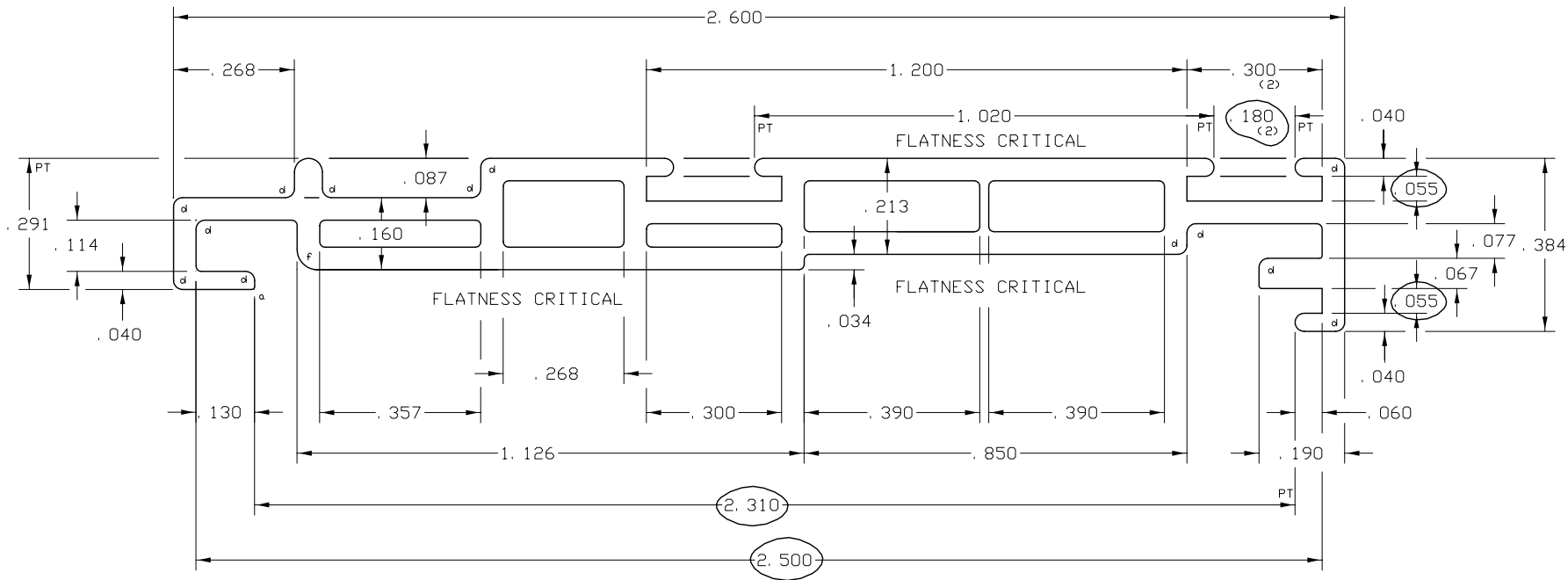
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ATI	
Report #	A5501
Date	12/6/10
Simulator	<i>John A. Mager</i>

IWC TOLERANCES FOR PVC EXTRUDED SHAPES APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE

				INTERNATIONAL WINDOW CORP.		
				TER MEER	BOTTOM RAIL ISOLATOR	
				05/14/10	PART NO: WH843	
				4 X SIZE	SERIES: 8200HS	8200-054

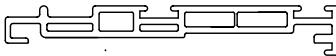
RELEASE FOR PRODUCTION
 DATE: SEPTEMBER 27, 2010
 APPR'D BY: JOHN FREY



RELEASE FOR PRODUCTION
DATE: SEPTEMBER 27, 2010
APPR'D BY: JOHN FREY

NOTES:

1. MATERIAL: RIGID PVC TO MEET AAMA 303-07
2. ALL UNSPECIFIED RADII = .012
3. TYPICAL EXTERIOR WALL THICKNESS: .050
TYPICAL INTERIOR WALL THICKNESS: .020
4. AREA: .317
5. MINIMUM SHEEN ALLOWED 56.0 USING A
GARDNER MICRO-GLOSS 60° GLOSS METER.
6. TOLERANCE UNLESS OTHERWISE NOTED $\pm .012$
7. WALL THICKNESS TOLERANCE TO BE: $\pm .006$



ACTUAL SIZE

ATI	
Report #	A5501
Date	12/6/10
Simulator	<i>John R. Meyer</i>

RADIUS SCHEDULE

- s - SHARP
- a - .006 R.
- b - .012 R.
- c - .015 R.
- d - .020 R.
- e - .030 R.
- f - .045 R.
- g - .060 R.

IWC TOLERANCES FOR PVC EXTRUDED SHAPES APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE

INTERNATIONAL WINDOW CORP.

TER MEER	HEAD ISOLATOR
05/14/10	PART NO: WH838
4 X SIZE	SERIES: 8200HS

8200HS-051

RELEASE FOR PRODUCTION
DATE: SEPTEMBER 27, 2010
APPR'D BY: JOHN FREY



1. MATERIAL: RIGID PVC TO MEET AAMA 303-07
2. ALL UNSPECIFIED RADII = .012
3. TYPICAL EXTERIOR WALL THICKNESS: .050
TYPICAL INTERIOR WALL THICKNESS: .025
4. AREA: .335
5. MINIMUM SHEEN ALLOWED 56.0 USING A
GARDNER MICRO-GLOSS 60° GLOSS METER.
6. TOLERANCE UNLESS OTHERWISE NOTED $\pm .012$
7. WALL THICKNESS TOLERANCE TO BE: $\pm .006$

ATI

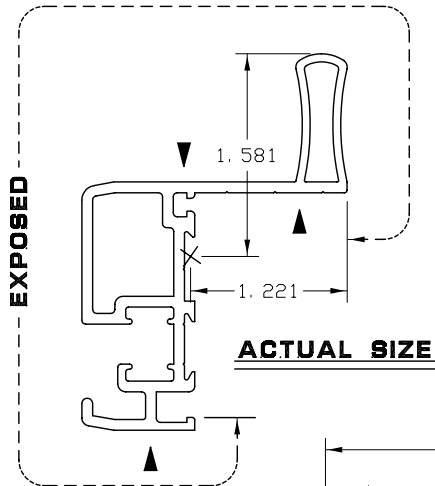
Report # A5501

Date 12/6/10

Simulator Jason R. Miguel

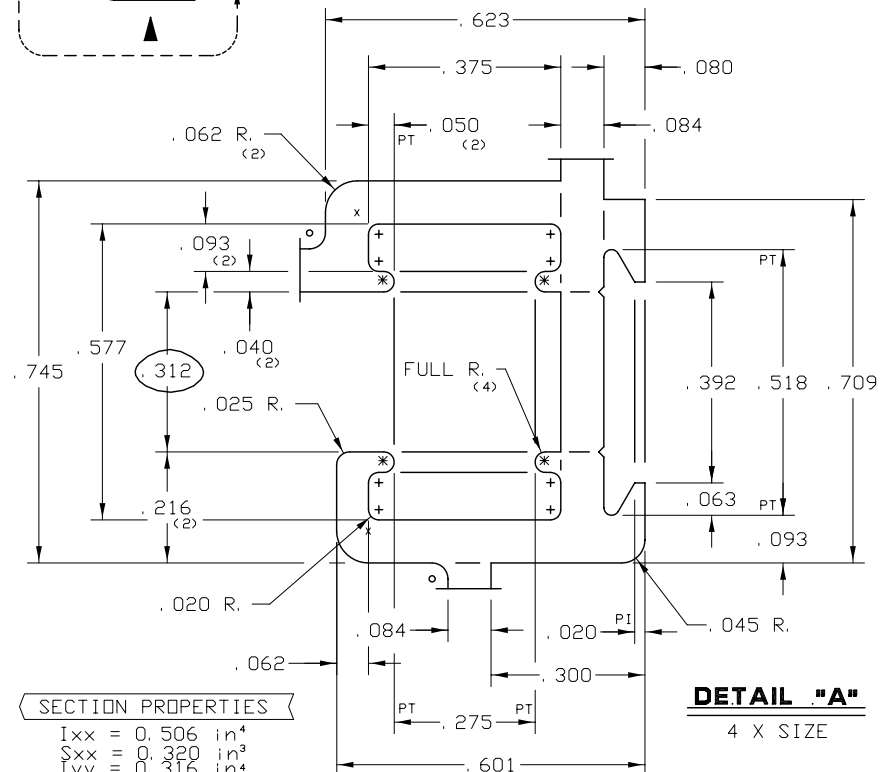
s - SHARP
a - .006 R.
b - .012 R.
c - .015 R.
d - .020 R.
e - .030 R.
f - .045 R.
g - .060 R.

				INTERNATIONAL WINDOW CORP.		
				TER MEER	SILL ISOLATOR PART NO: WH841 SERIES: 8200HS	
				05/14/10		
				4 X SIZE		8200HS-050

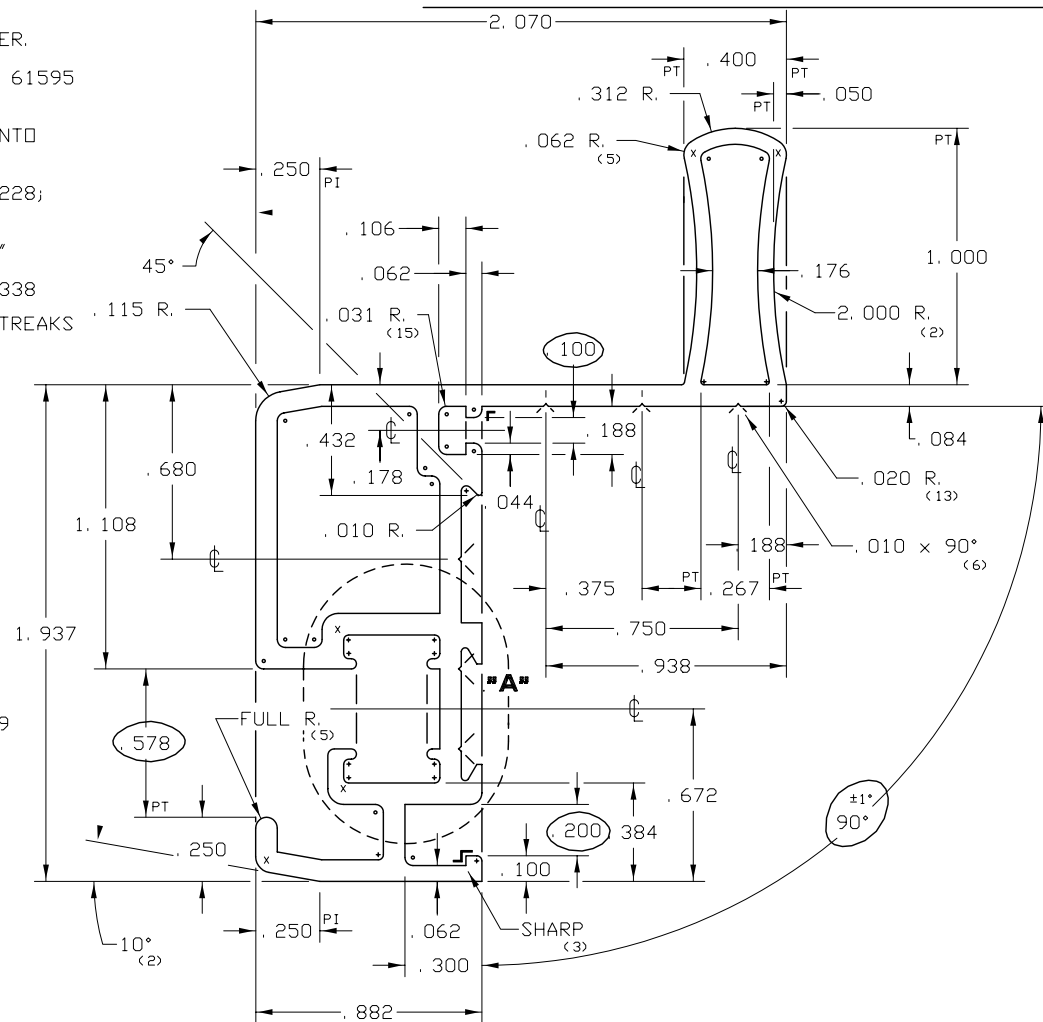


NOTES:

- 6063-T6 ALLOY AND TEMPER.
- MATES WITH SH865; DIE# 61595
- DEBRIDGE WITH A .312 x .015 MAX PENETRATION INTO THERMAL AREA.
- THERMAL DETAIL AREA: .228; (MODIFIED "DD")
- PAINT PERIMETER: 9.732"
- OUTSIDE PERIMETER: 14.338
- ▶ INDICATES POSSIBLE STREAKS



U.S. ALUMINUM CORP.		H-61632
8200HS SERIES VENT STYLE	TER MEER	04/17/10
HS815	2 X SIZE	



ATI		.084	
Report #	A5501	.780	C-1823
Date	12/6/10	.936	3.482
Simulator	James R. Mager	19.701	HOLLOW III
		21	8" 68/PRESS 4
			1
			PORTHOLE 10X5.5
			61588
			H-61632

SECTION PROPERTIES

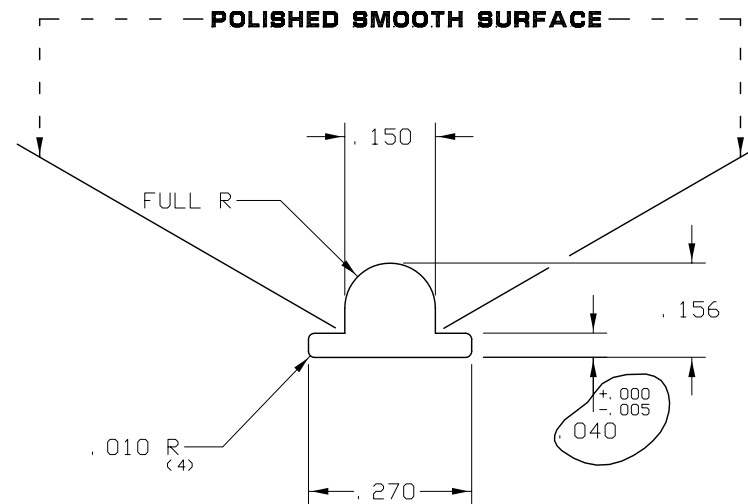
$I_{xx} = 0.506 \text{ in}^4$
 $S_{xx} = 0.320 \text{ in}^3$
 $I_{yy} = 0.316 \text{ in}^4$
 $S_{yy} = 0.259 \text{ in}^3$

DETAIL "A"

4 X SIZE



ACTUAL SIZE



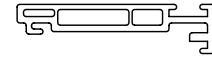
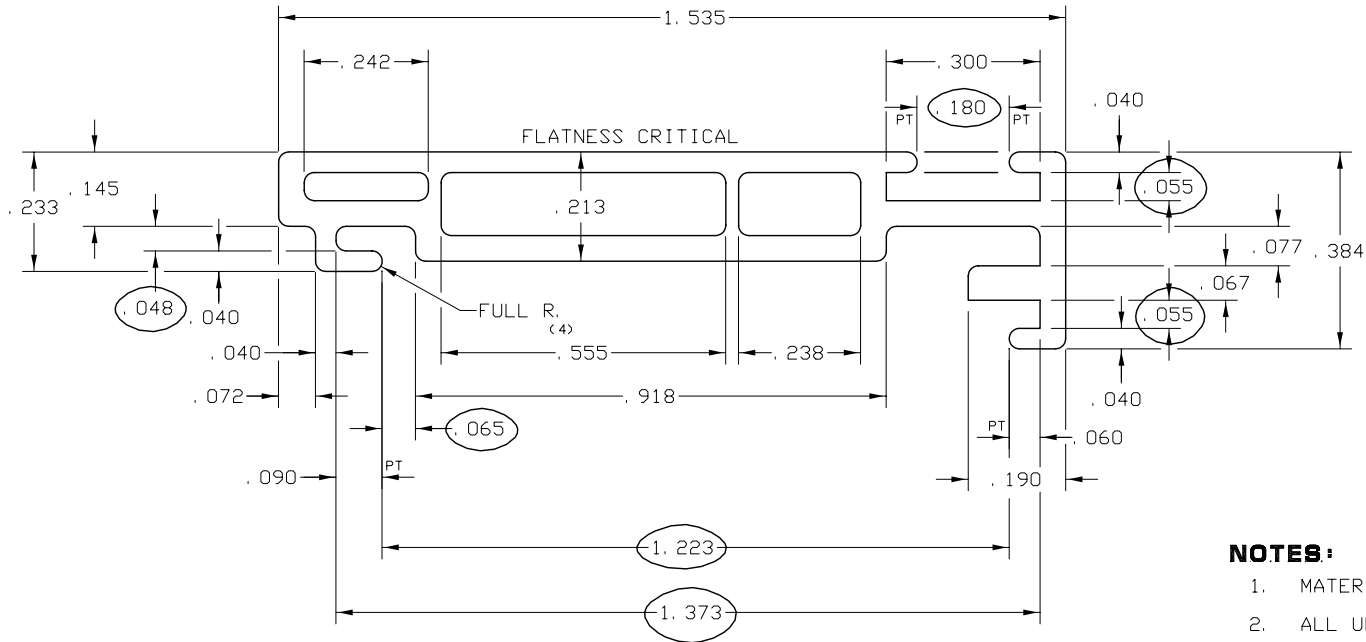
NOTES:

1. MATERIAL: POLYPROPYLENE
2. COLOR: BLACK
3. RYKO NO: R-11125

ATI	
Report #	A5501
Date	12/6/10
Simulator	<i>John A. Nye</i>

INTERNATIONAL WINDOW CORP.

PRESTON	VENT GUIDE STRIP	
02/15/06		8920-134
4 X SIZE		
PART NO: VR125		



ACTUAL SIZE

RADIUS SCHEDULE

- s - SHARP
- a - .006 R.
- b - .012 R.
- c - .015 R.
- d - .020 R.
- e - .030 R.
- f - .045 R.
- g - .060 R.

NOTES:

1. MATERIAL: RIGID PVC TO MEET AAMA 303-07
2. ALL UNSPECIFIED RADII = .020
3. TYPICAL EXTERIOR WALL THICKNESS: .050
TYPICAL INTERIOR WALL THICKNESS: .025
4. AREA: .181
5. MINIMUM SHEEN ALLOWED 56.0 USING A GARDNER MICRO-GLOSS 60° GLOSS METER.
6. TOLERANCE UNLESS OTHERWISE NOTED $\pm .012$
7. WALL THICKNESS TOLERANCE TO BE: $\pm .006$

ATI	
Report #	A5501
Date	12/6/10
Simulator	<i>John R. Myle</i>

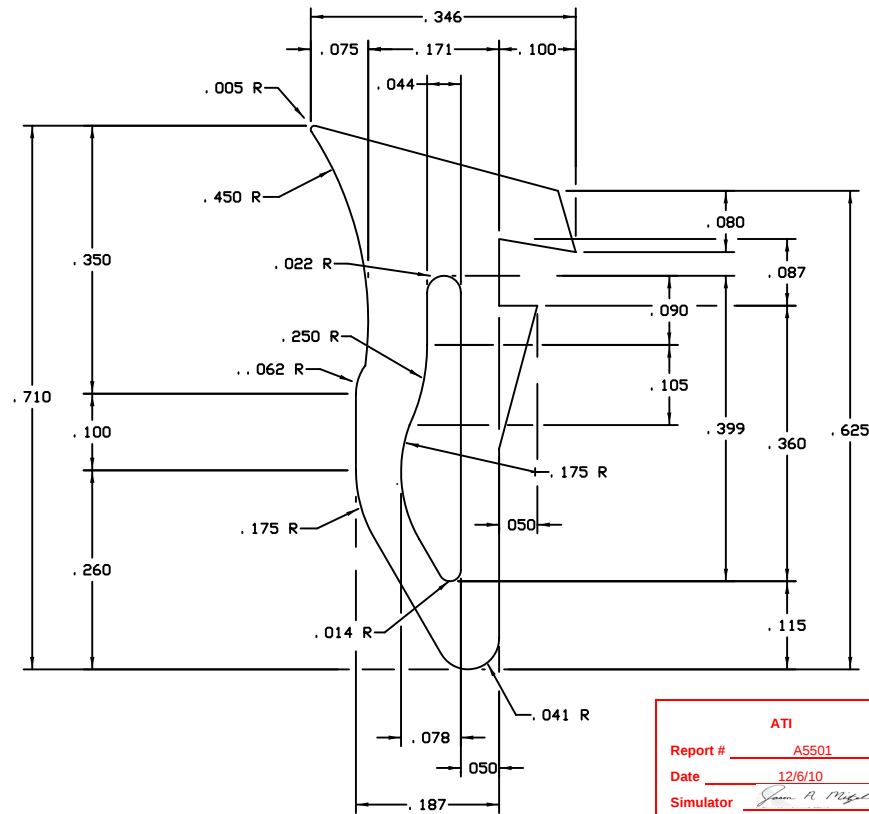
IWC TOLERANCES FOR PVC EXTRUDED SHAPES APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE

				INTERNATIONAL WINDOW CORP.		
				Willie C.	JAMB THERMO ISOLATOR	
Ⓑ	ADDED NOTES 6 & 7	03/10/10	RT	02/05/08	SERIES 8900 (WH809)	8000SH-038B
				4 X SIZE		

USA-1819 B



ACTUAL SIZE



NOTE:

1. FACE CLEARANCE = .188
2. DUREMETER = 70 $\pm$ 5
3. MATERIAL: EPDM
4. TREMCO PS-1126E or EQUAL
- ⑤ 5. SILICONE BATH.

ATI

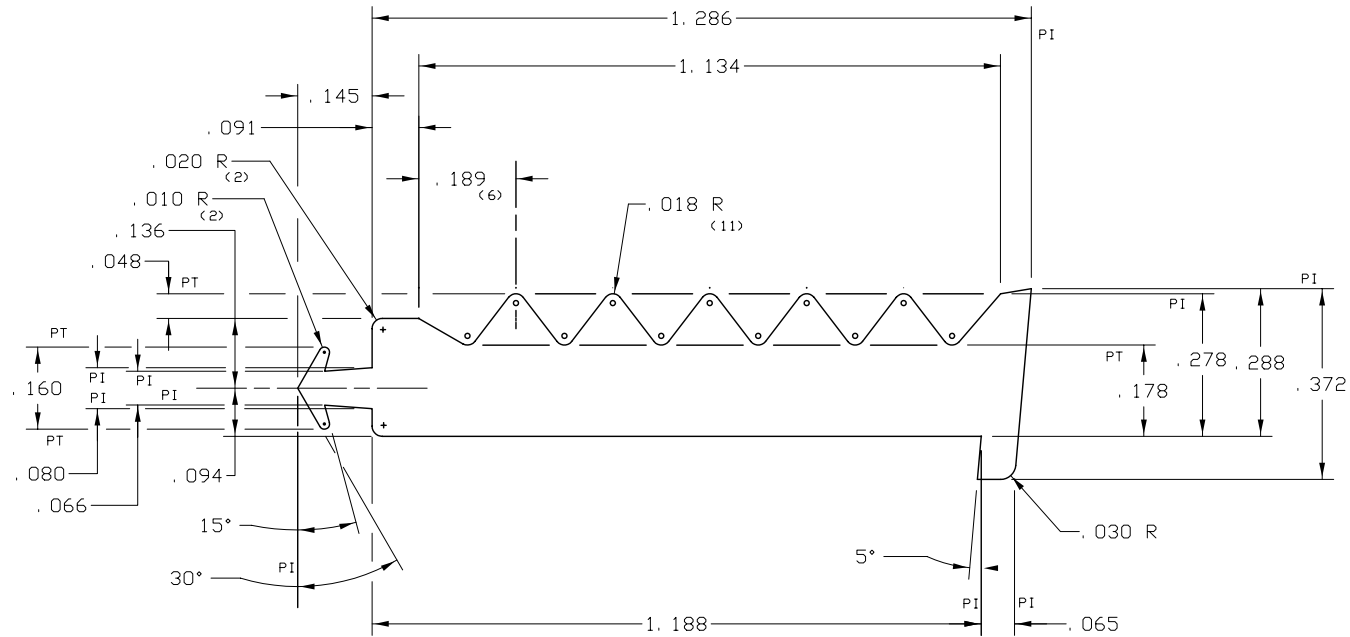
Report # A5501

Date 12/6/10

Simulator *John A. Regal*

				International Aliminum Corporation			
				DIVISION U.S. ALUMINUM CORP.			
PART NO. WH344				GLH		DWG NO.	
ADD SILICONE BATH NOTE		08/20/09	WCC	7/20/99			
SYM.	REVISION	DATE	BY	SCALE:	8 X SIZE	WEDGE GASKET for 7200 WINDOWS & ES350	
						USA-1819 B	

USA-1819 B



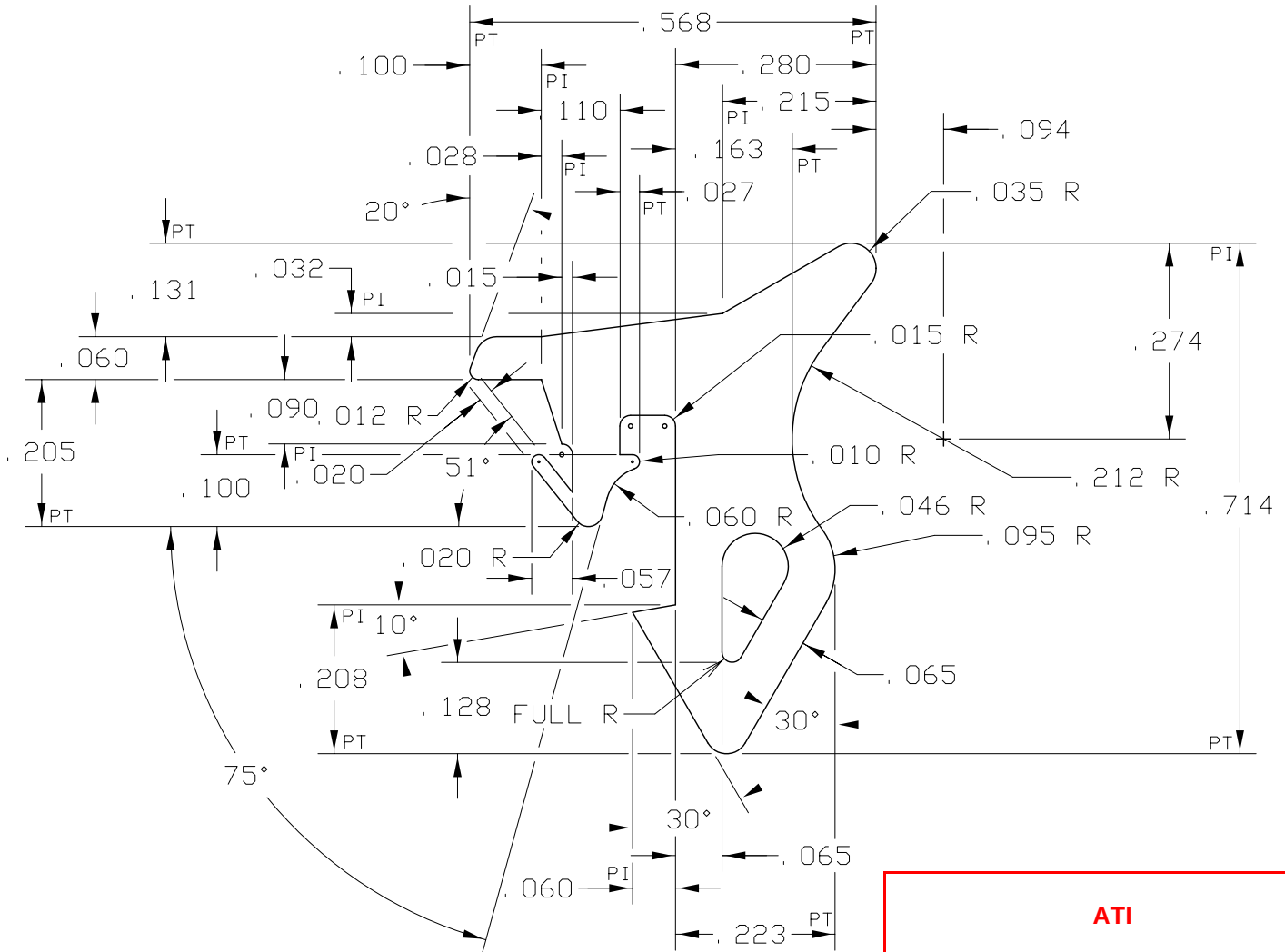
ACTUAL SIZE

NOTES:

1. AREA: .308 IN²
2. MATERIAL: EPDM SPONGE
3. PART NO. NP881

ATI	
Report #	A5501
Date	12/6/10
Simulator	<i>John R. Maffei</i>

				UNITED STATES ALUMINUM CORP.		
				Willie C.	INTERIOR GLAZING	
				02/05/10	GASKET (8000 SH WINDOW)	
				4 X SIZE	PART# NP881	8000SH-011

**ACTUAL SIZE****NOTES:**

1. AREA = .151 in²
2. MATERIAL: EPDM DENSE
3. DUROMETER: 70 ±5 SHORE
4. PART NO. NP825

ATIReport # A5501Date 12/6/10Simulator Jason A. Miguel**U.S. ALUMINUM CORP.**

PRESTON

05/16/06

4 X SIZE

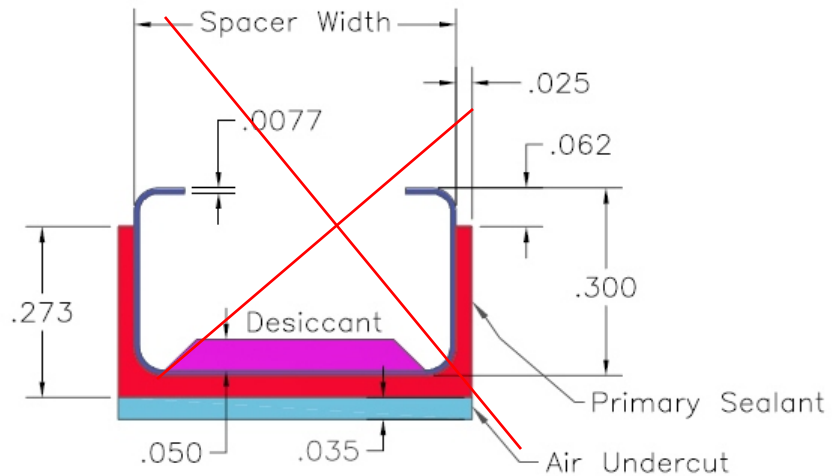
EXTERIOR GLAZING GASKET
FOR IG500/IG600 SYSTEM

PART# : NP825

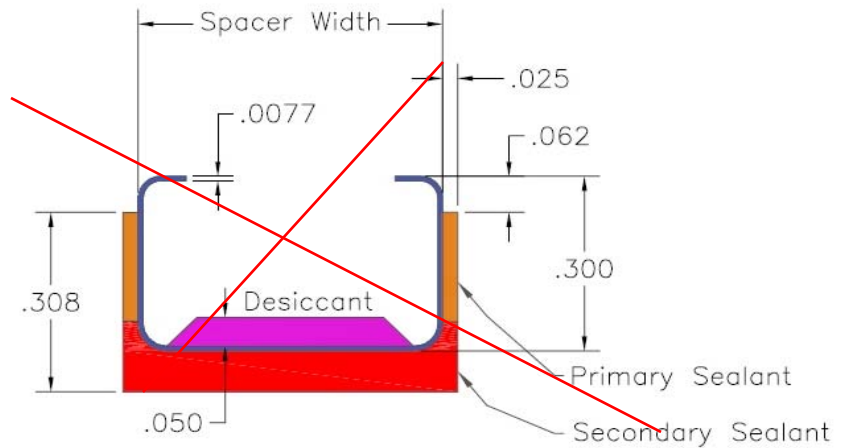
USA-2957

Intercept® Technologies —Correct Geometry

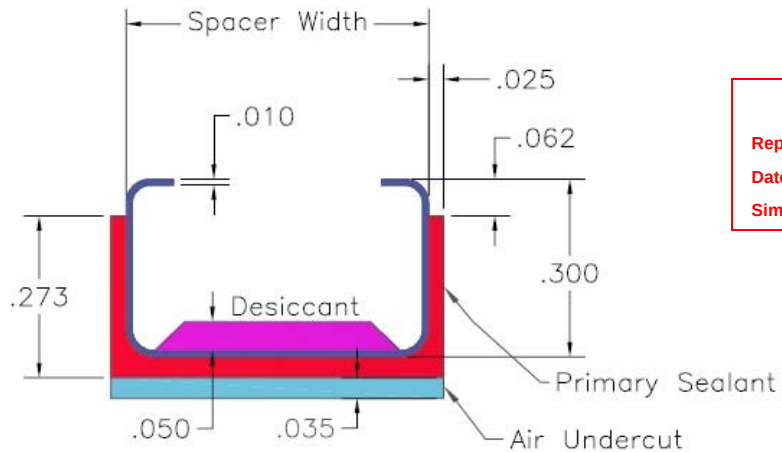
**Intercept® ULTRA Stainless Steel—Standard Profile
SINGLE SEAL**



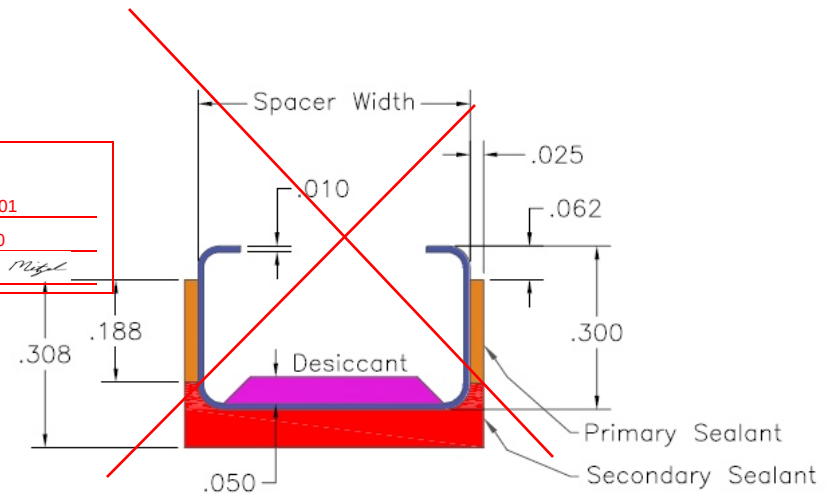
**Intercept® ULTRA Stainless Steel—Standard Profile
DUAL SEAL**



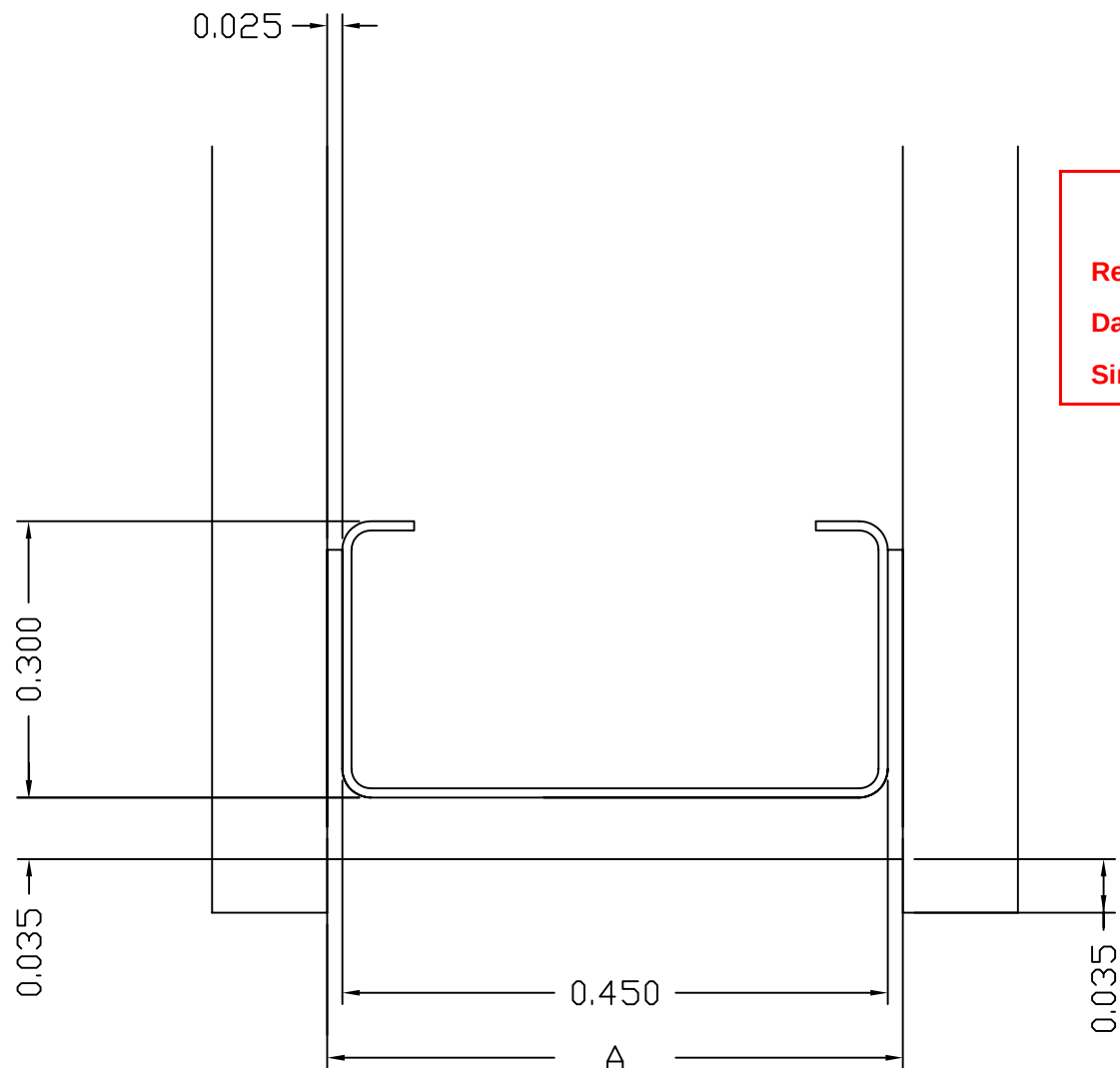
**Intercept® Blackline or Electrolytic Tin Plated Steel—Standard Profile
SINGLE SEAL**



**Intercept® Blackline or Electrolytic Tin Plated Steel—Standard Profile
DUAL SEAL**



ATI
Report # A5501
Date 12/6/10
Simulator Joan R. Pappalardo



ATI	
Report #	<u>A5501</u>
Date	<u>12/6/10</u>
Simulator	<u>Jason R. Mifflin</u>

Offset: 0.035"
Primary Sealant: 0.035"
A: 0.500"

MATERIAL - .010 STEEL (Galv.)