

AAMA 507-07 THERMAL PERFORMANCE REPORT

Rendered to:

TUBELITE, INC.

SERIES/MODEL: Monumental Narrow Stile Single Door

TYPE: Swinging Door - Single

Report No: B3772.10-116-45
Report Date: 10/27/11

AAMA 507-07 THERMAL PERFORMANCE REPORT

Rendered to:

TUBELITE, INC.
4878 Mackinaw Trail
Reed City, Michigan 49677

Report No: B3772.10-116-45
Report Date: 10/27/11
Simulation Date: 10/27/11

Project Summary:

Architectural Testing, Inc. was contracted by Tubelite, Inc. to provide U-Factor and Solar Heat Gain Coefficient thermal performance ratings on the Monumental Narrow Stile Single Door Swinging Door - Single. 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

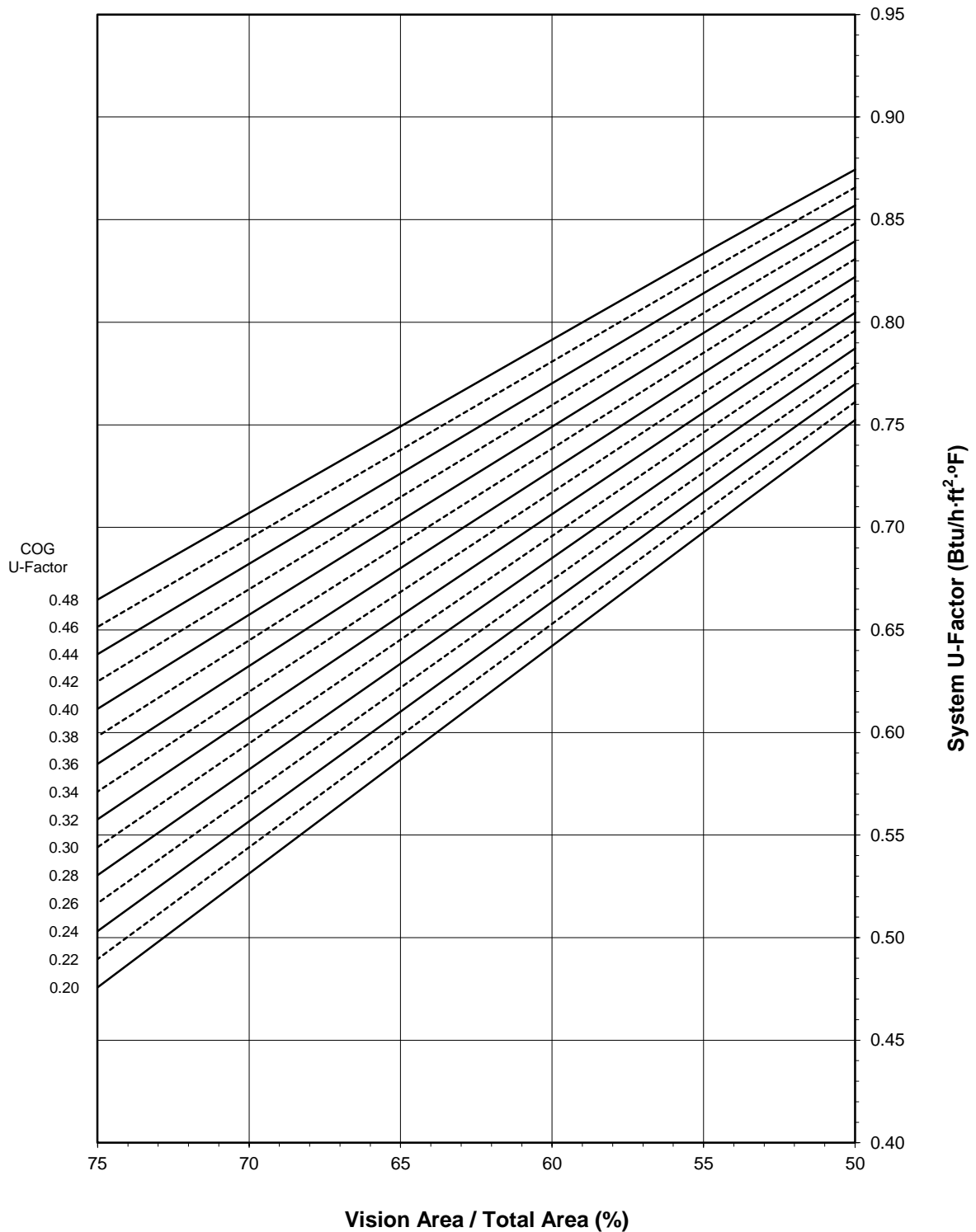
NFRC 200-2010, Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence

Simulation Specimen Description:

Series/Model:	Monumental Narrow Stile Single Door
Product Groupings:	Mon. Narrow w/o sweep grouped with Mon. Narrow w/ sweep.
Type:	Swinging Door - Single
Frame Material:	Aluminum Framing System
Material Finish:	Painted Aluminum
Specimen Size:	960mm wide by 2090mm high (37-3/4" by 82-3/8")
Configuration:	Single vision lite
Drawing Reference:	Tubelite Standard Doors - Monumental Frame Details

Tubelite, Inc.
Monumental Narrow Stile Single Door - Swinging Door - Single

System U-Factor vs. Percentage of Vision Area



Note: 1 inch Overall - Dual Glazed Glass (0.48-0.20 COG) with Aluminum Spacer

Tubelite, Inc.
Monumental Narrow Stile Single Door - Swinging Door - Single

Size Specific U-Factor Matrix*

Glazing Option	Center of Glass U-Factor	Overall U-Factor
1	0.48	0.83
2	0.46	0.82
3	0.44	0.81
4	0.42	0.80
5	0.40	0.79
6	0.38	0.78
7	0.36	0.77
8	0.34	0.76
9	0.32	0.75
10	0.30	0.74
11	0.28	0.73
12	0.26	0.72
13	0.24	0.71
14	0.22	0.70
15	0.20	0.69

Note: 1 inch Overall - Dual Glazed Glass (0.48-0.20 COG) with Aluminum Spacer

Size Specific SHGC Matrix*

Center of Glass SHGC	Overall SHGC
0.75	0.46
0.70	0.43
0.65	0.40
0.60	0.37
0.55	0.35
0.50	0.32
0.45	0.29
0.40	0.26
0.35	0.24
0.30	0.21
0.25	0.18
0.20	0.15
0.15	0.12
0.10	0.10
0.05	0.07

Size Specific VT Matrix*

Center of Glass VT	Overall VT
0.75	0.42
0.70	0.39
0.65	0.36
0.60	0.33
0.55	0.31
0.50	0.28
0.45	0.25
0.40	0.22
0.35	0.19
0.30	0.17
0.25	0.14
0.20	0.11
0.15	0.08
0.10	0.06
0.05	0.03

*Size Specific U-Factor, SHGC, and VT Matrices are based on the standard Swinging Door - Single specimen size of 960mm wide by 2090mm high (37-3/4" by 82-3/8"). This represents 55.6% 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		
							50% Vision Area	NFRC 100-2010	75% Vision Area
							32.96" by 71.76"	37.80" by 82.28"	71.26" by 155.13"
1	0.48	43.7	Head	6.7163	1.2410	0.5729	0.8744	0.8289	0.6648
			L. Jamb	6.1545	1.2700	0.5735			
			R. Jamb	6.1545	1.2700	0.5735			
			Sill	7.7790	1.1636	0.5820			
2	0.46	44.8	Head	6.7163	1.2409	0.5593	0.8656	0.8191	0.6515
			L. Jamb	6.1545	1.2700	0.5600			
			R. Jamb	6.1545	1.2700	0.5600			
			Sill	7.7790	1.1635	0.5684			
3	0.44	45.8	Head	6.7163	1.2409	0.5459	0.8569	0.8093	0.6382
			L. Jamb	6.1545	1.2700	0.5466			
			R. Jamb	6.1545	1.2700	0.5466			
			Sill	7.7790	1.1634	0.5548			
4	0.42	46.8	Head	6.7163	1.2409	0.5325	0.8482	0.7995	0.6249
			L. Jamb	6.1545	1.2701	0.5333			
			R. Jamb	6.1545	1.2701	0.5333			
			Sill	7.7790	1.1633	0.5413			
5	0.40	47.9	Head	6.7163	1.2409	0.5192	0.8395	0.7897	0.6116
			L. Jamb	6.1545	1.2701	0.5200			
			R. Jamb	6.1545	1.2701	0.5200			
			Sill	7.7790	1.1632	0.5279			
6	0.38	48.9	Head	6.7163	1.2409	0.5061	0.8308	0.7799	0.5982
			L. Jamb	6.1545	1.2701	0.5069			
			R. Jamb	6.1545	1.2701	0.5069			
			Sill	7.7790	1.1630	0.5146			
7	0.36	50.0	Head	6.7163	1.2409	0.4929	0.8221	0.7701	0.5847
			L. Jamb	6.1545	1.2701	0.4937			
			R. Jamb	6.1545	1.2701	0.4937			
			Sill	7.7790	1.1629	0.5013			
8	0.34	51.0	Head	6.7163	1.2409	0.4798	0.8134	0.7603	0.5712
			L. Jamb	6.1545	1.2702	0.4807			
			R. Jamb	6.1545	1.2702	0.4807			
			Sill	7.7790	1.1628	0.4883			
9	0.32	52.0	Head	6.7163	1.2409	0.4667	0.8046	0.7505	0.5577
			L. Jamb	6.1545	1.2702	0.4677			
			R. Jamb	6.1545	1.2702	0.4677			
			Sill	7.7790	1.1627	0.4750			
10	0.30	53.1	Head	6.7163	1.2409	0.4538	0.7959	0.7407	0.5441
			L. Jamb	6.1545	1.2702	0.4548			
			R. Jamb	6.1545	1.2702	0.4548			
			Sill	7.7790	1.1626	0.4620			

Vision Area Data

Option No.	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							50% Vision Area	NFRC 100-2010	75% Vision Area
							32.96" by 71.76"	37.80" by 82.28"	71.26" by 155.13"
11	0.28	54.2	Head	6.7163	1.2409	0.4408	0.7872	0.7308	0.5305
			L. Jamb	6.1545	1.2703	0.4419			
			R. Jamb	6.1545	1.2703	0.4419			
			Sill	7.7790	1.1625	0.4489			
12	0.26	55.2	Head	6.7163	1.2409	0.4279	0.7785	0.7210	0.5168
			L. Jamb	6.1545	1.2703	0.4290			
			R. Jamb	6.1545	1.2703	0.4290			
			Sill	7.7790	1.1624	0.4360			
13	0.24	56.3	Head	6.7163	1.2410	0.4151	0.7698	0.7112	0.5032
			L. Jamb	6.1545	1.2704	0.4162			
			R. Jamb	6.1545	1.2704	0.4162			
			Sill	7.7790	1.1623	0.4231			
14	0.22	57.3	Head	6.7163	1.2410	0.4024	0.7611	0.7014	0.4896
			L. Jamb	6.1545	1.2704	0.4036			
			R. Jamb	6.1545	1.2704	0.4036			
			Sill	7.7790	1.1622	0.4103			
15	0.20	58.4	Head	6.7163	1.2410	0.3896	0.7524	0.6915	0.4758
			L. Jamb	6.1545	1.2705	0.3908			
			R. Jamb	6.1545	1.2705	0.3908			
			Sill	7.7790	1.1622	0.3973			

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:

Eric Barilar
Simulation Technician

Kevin S. Louder
Project Engineer

EAB:EAB
B3772.10-116-45

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

Appendix A: Drawings and Bills of Material (23)

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
.01R0	10/27/2011	All	Original Report Issue

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

MONUMENTAL SINGLE DOOR BOM

ATI
Report # <u> B3772-116-45 </u>
Date <u> 10/20/2011 </u>
Simulator <u> Eric Basile </u>

FRAME:

Description	QTY	Part number	Material
Monumental Jamb 2" x 4 1/2"	2	E14121	
Header 2" x 4 1/2"	1	E14124	
Screws for frame clip		S009	AL
screws for header to clip		S070	
Door stops	3	E2942	
Weather pile	30 ft	P1098A	Vinyl

DOOR:

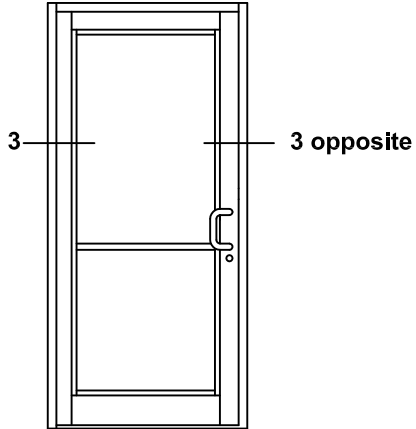
Description	QTY	Narrow P/N	Medium P/N	Wide P/N	Material
Beveled Door Stiles	2	E1047 - 3"	E1397- 4 1/2"	E2937 - 6"	
Door Top Rail	1	E1050 - 3 1/2"	E3029 - 4/ 1/2"	E1051 - 6"	
Top Rail Lug	2	P907	P1649	P908	
Door Botom Rail	1	E1051- 6"	E1051- 6"	E2954 - 10"	
Bottom Rail Lug	2	P908	P908	P1648	
Top Rail & Bottom Rail Tie Rods	2	P020	P020	P020	
Washer for Tie Rods	4	P853	P853	P853	
Hex nuts for Tie rods	4	S071A	S071A	S071A	
Exterior Glass Stop 1" glass	4	E0927	E0927	E0927	
Interior Glass Stop 1" glass	4	E0928	E0928	E0928	
Gasket	36 ft	P0017	P0017	P0017	
Adjustable Wedge Setting Bkck	2	P1911	P1911	P1911	Polypropylene
Self Adhesive Setting Bkck	3	P1912	P1912	P1912	EPDM
Threshold	1	E0019	E0019	E0019	
Threshold clip	2	P679	P679	P679	AL

MATERIAL:

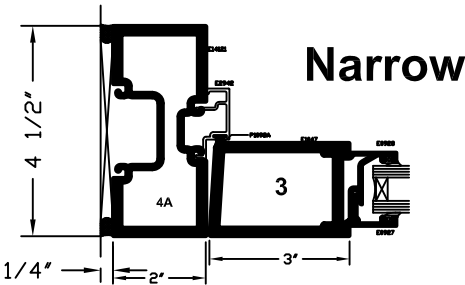
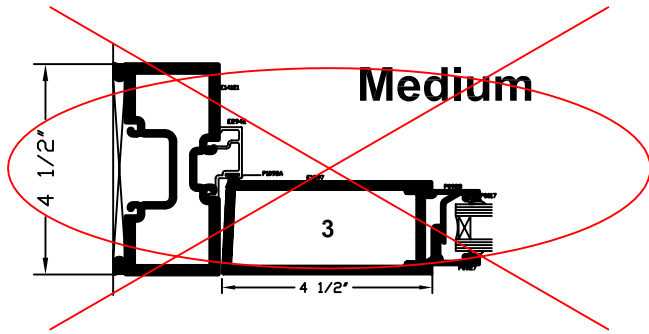
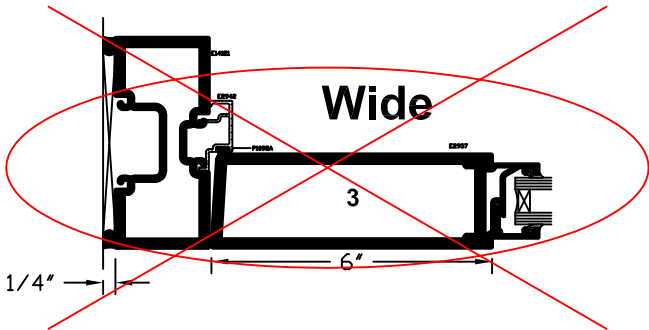
E - All E part numbers are AL extrusions

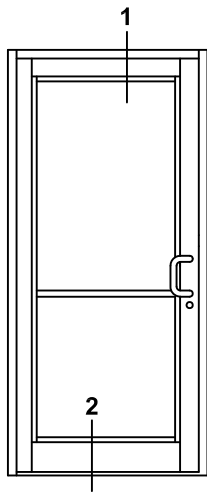
Monumental Doors - Single Jamb detail

Elevations & 1/4 Size Details



	ATI
Report #	<u>B3772-116-45</u>
Date	<u>10/20/2011</u>
Simulator	<u>Eric Borillo</u>





Monumental Doors - Single Elevations & 1/4 Size Details

ATI

Report # B3772-116-45

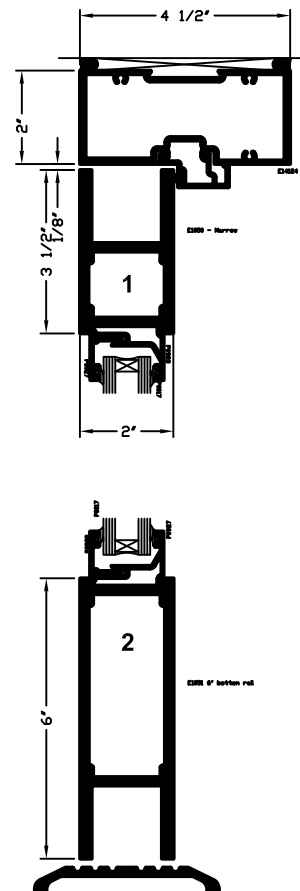
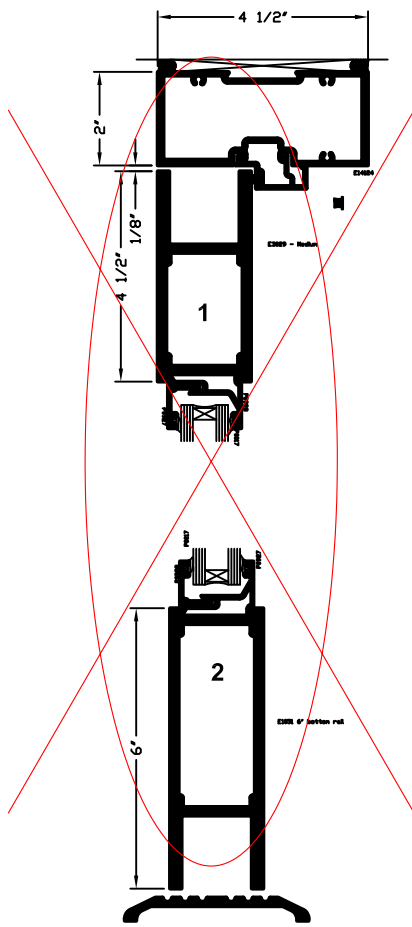
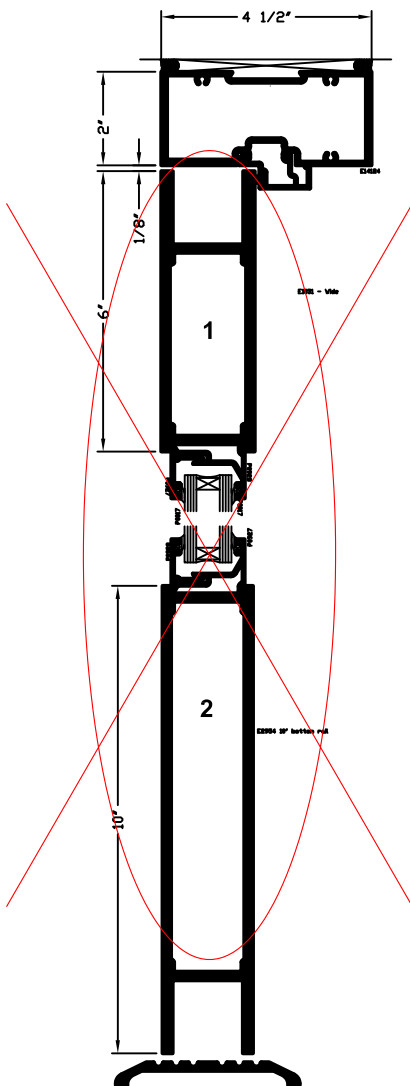
Date 10/20/2011

Simulator *Eric Barilko*

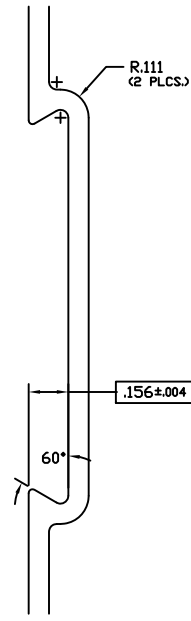
Wide

Medium

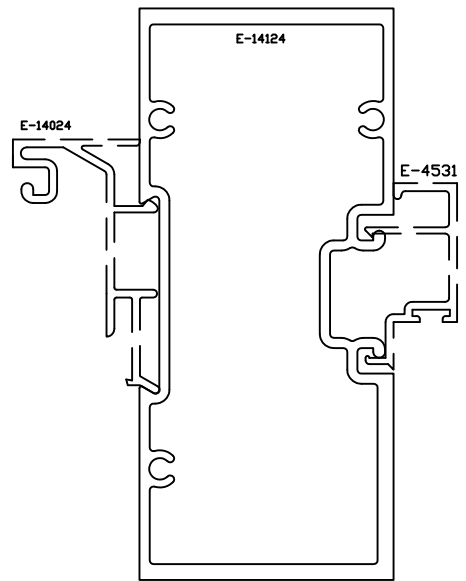
Narrow



*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

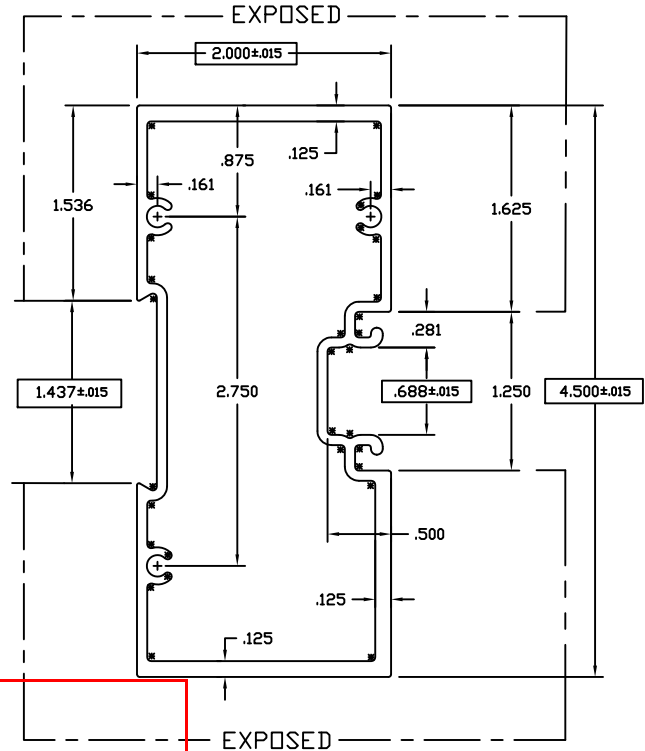


TWO TIMES SIZE



ASSEMBLY

MATES W/ E-4532, E-4026 & E-14024



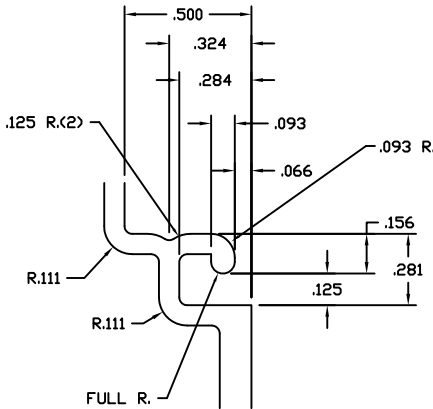
EXPOSED
ACTUAL SIZE

ATI

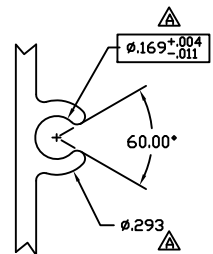
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Date 10/20/2011

Simulator Eric Baribe



TWO TIMES SIZE



TWO TIMES SIZE

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TOLERANCES APPLY UNLESS NOTED

TUBELITE
SUPERIOR ALUMINUM
LEADING IN ECO-FRIENDLY OPERATING
CURTAINWALL AND ENTRANCE SYSTEMS

3056 WALKER RIDGE NW, SUITE G
WALKER, MICHIGAN 49544

WALL THK. .080	SECTION H THKS	MAT'L 6063-T5	RATIO 38:1
PERIMETER OUT (TOTAL) 15.371(29.969)	AREA 1.464	WGT/FT 1.722	
FACTOR 17	CIRCLE SIZE 4.924	JNFTL VOLUME N/A	
RXX 1.601	SXX 1.640	IXX 3.751	CXX 2.287
RYY .780	SYY .849	IYY .890	CYY 1.049

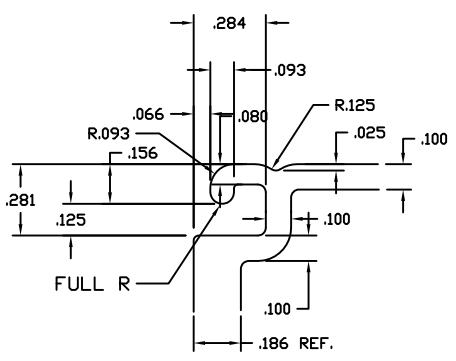
DENOTES CRITICAL DIMENSION
 ALL DIES PROPERTY OF TUBELITE

REV	DATE	DESCRIPTION	INTL
	9-11-93	RELEASE TO TOOLING	KMH
	7-7-93	REVISE EXTR. # WAS E-14023	KMH
	7-28-93	RELEASE TO PRODUCTION	KMH
A	1/17/2011	J69 +.004/-0.011 was .162+/-0.004, .293 WAS .322	CRH

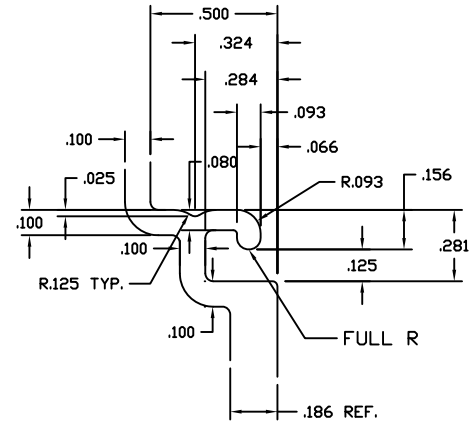
DOOR HEADER 2" X 4 1/2"
E14000 NON THERMAL STOREFRONT

DRAWN BY SMH	DRWG DATE 05/11/93	APPV'D BY	DATE APPV'D
DWG SCALE NOTED	PRODUCT CODE 190	E14124	REV A

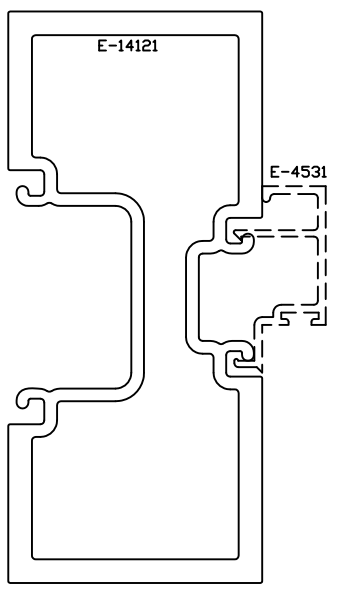
E14121
A



DETAIL "A"
TWO TIMES SCALE

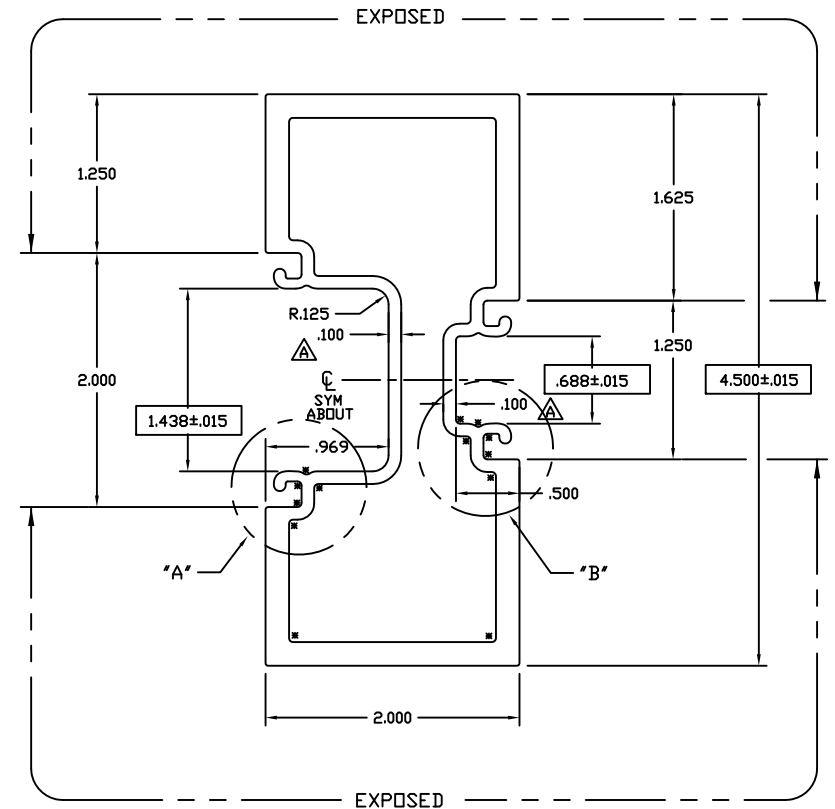


DETAIL "B"
TWO TIMES SCALE



FULL SCALE ASSEMBLY

ALSO MATES W/ E-4013



FULL SCALE

ATI

Report # B3772-116-45

Date 10/20/2011

Simulator Eric Barilla

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TOLERANCES APPLY UNLESS NOTED

TUBELITE
DEPENDABLE
LEADING IN ECO-FRIENDLY OPERATING
CURTAINWALL AND ENTRANCE SYSTEMS

3056 WALKER RIDGE NW, SUITE G
WALKER, MICHIGAN 49544

WALL THK .186	SECTION CLASS H	MAT'L 6063-T5	RATIO 24:1
PERIMETER OUT (TOTAL) 17.706(31.122)	AREA 2.307	WGT/FT 2.713	
FACTOR 11	CIRCLE SIZE 4.924	INFILL VOLUME N/A	
RXX 1.577	SXX 2.549	IXX 5.736	CXX 2.250
RYY .719	SYY 1.124	IYY 1.192	CYY 1.061

DENOTES CRITICAL DIMENSION
 ALL DIES PROPERTY OF TUBELITE

REV	DATE	DESCRIPTION	INTL
EP-2688	8/7/98	RELEASE TO TOOLING	SMF
EP-8647	10/28/98	RELEASE TO PRODUCTION	KRH
A	01/02/03	REVISED POCKET CONFIGURATION AND WALL THICKNESS	CRH

THICK WALL DOOR JAMB 2" X 4 1/2"
E14000 NON THERMAL STOREFRONT

DRAWN BY SMF	DRWG DATE 08/07/98	APPV'D BY	DATE APPV'D
DWG SCALE NOTED	PRODUCT CODE 190	E14121	REV A

E2942

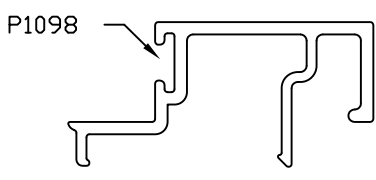
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ATI

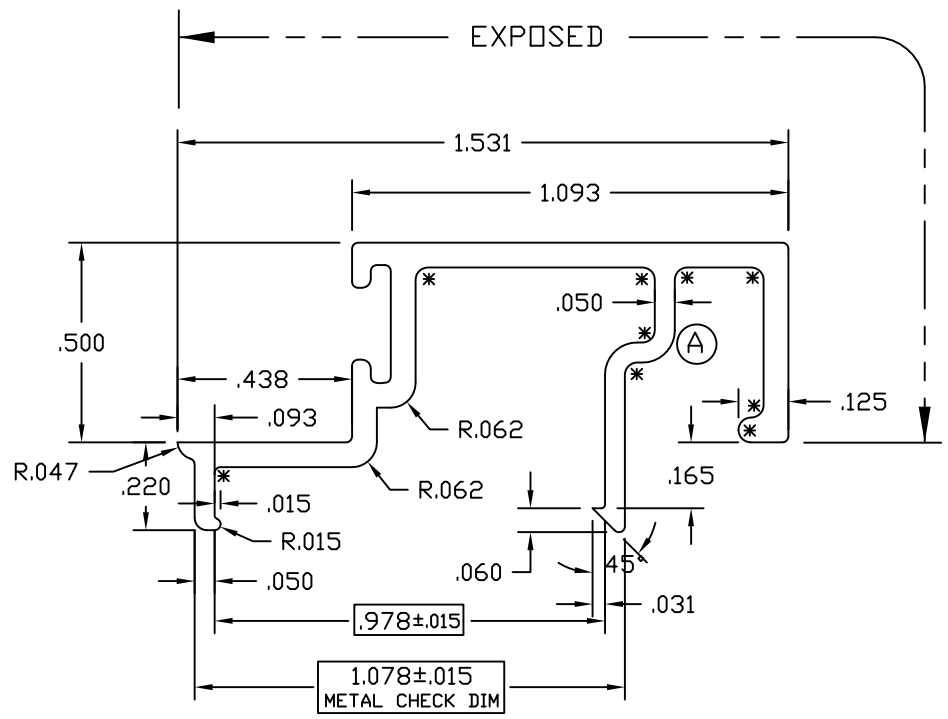
Report # B3772-116-45

Date 10/20/2011

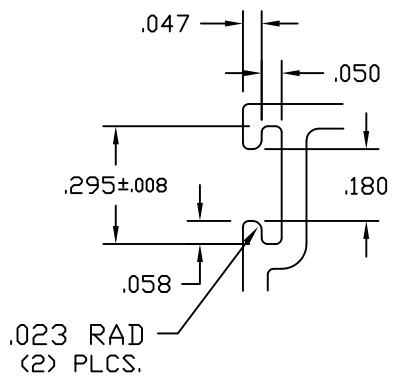
Simulator Eric Barilar



FULL SCALE



TWO TIMES SCALE



TWO TIMES SCALE

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 TOLERANCES APPLY UNLESS NOTED
 ALL UNSPECIFIED RADII .015
 * INDICATES .031 RADIUS

TUBELITE
 DEPENDABLE
 LEADERS IN ECO-EFFICIENT STOREFRONT,
 CURTAINWALL AND ENTRANCE SYSTEMS

3056 WALKER RIDGE NW, SUITE G
 WALKER, MICHIGAN 49544

WALL THK. .062	SECTION CLASS S	MAT'L 6063-T5	RATIO 262:1
PERIMETER OUT (TOTAL) 7.135	AREA .210	WGT/FT .247	
FACTOR 29	CIRCLE SIZE 1.654	INFILL VOLUME N/A	

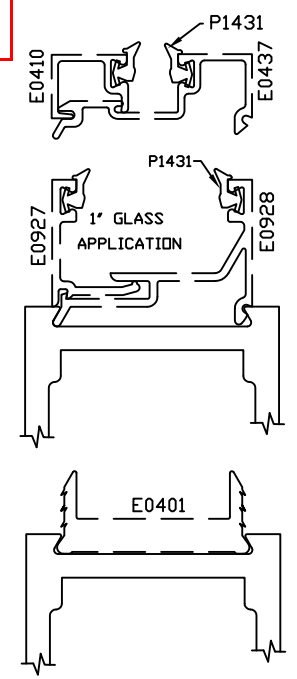
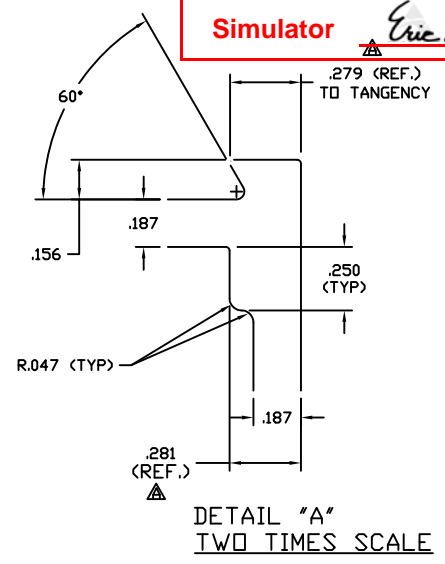
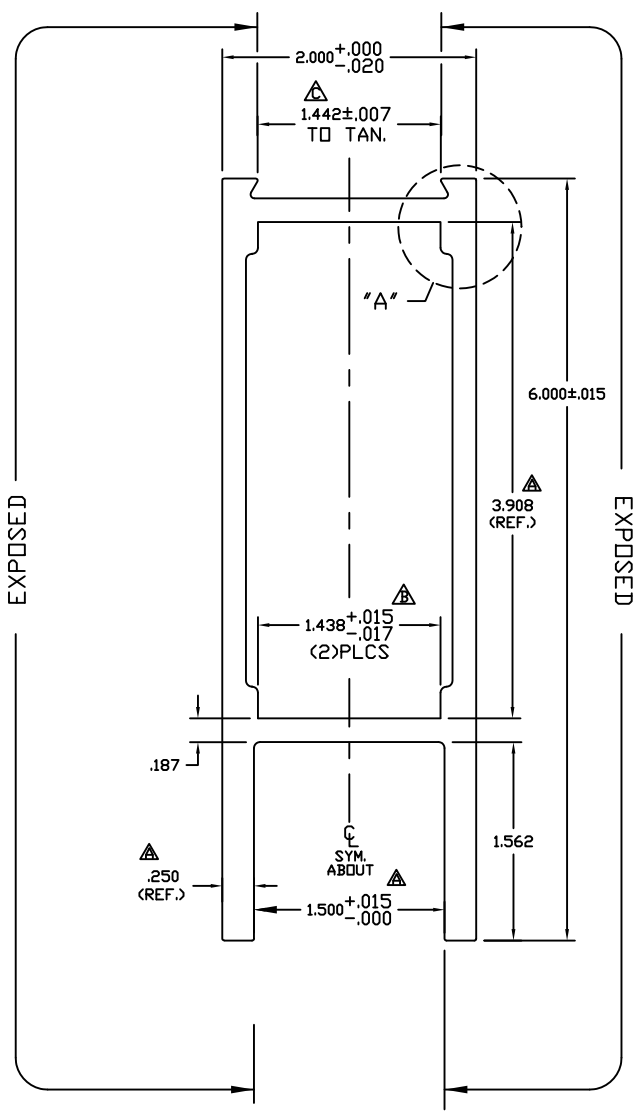
RXX .217	SXX .037	IXX .010	CXX .455
RYY .456	SYX .066	IYY .044	CYY .868

DOOR STOP 1/2" X 1 3/32"
 CUSTOM DOORS/FRAMES

DRAWN BY DM	DRWG DATE 06/10/90	APPV'D BY	DATE APPV'D
DWG SCALE NOTED	PRODUCT CODE 110	E2942	REV A

REV	DATE	DESCRIPTION	INTL
ED-1229	06/04/90	RELEASED TO TOOLING	DSM
ED-1272	10/02/90	RELEASED TO PRODUCTION	DSM
A	10/02/03	REVISED LEG TO AVOID CONFUSION PER ER120302	DMT

ATI
Report # B3772-116-45
Date 10/20/2011
Simulator Eric Barilak



Use with door lugs P908
 SNAP FIT W/E0437(1/4"GLASS) AND E0928(1"GLASS)

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 ALUMINUM ASSOCIATION STANDARD TOLERANCES APPLY UNLESS NOTED
 ALL UNSPECIFIED RADII .015
 * INDICATES .031 RADIUS
 □ DENOTES CRITICAL DIMENSION
 ALL DIES PROPERTY OF TUBELITE

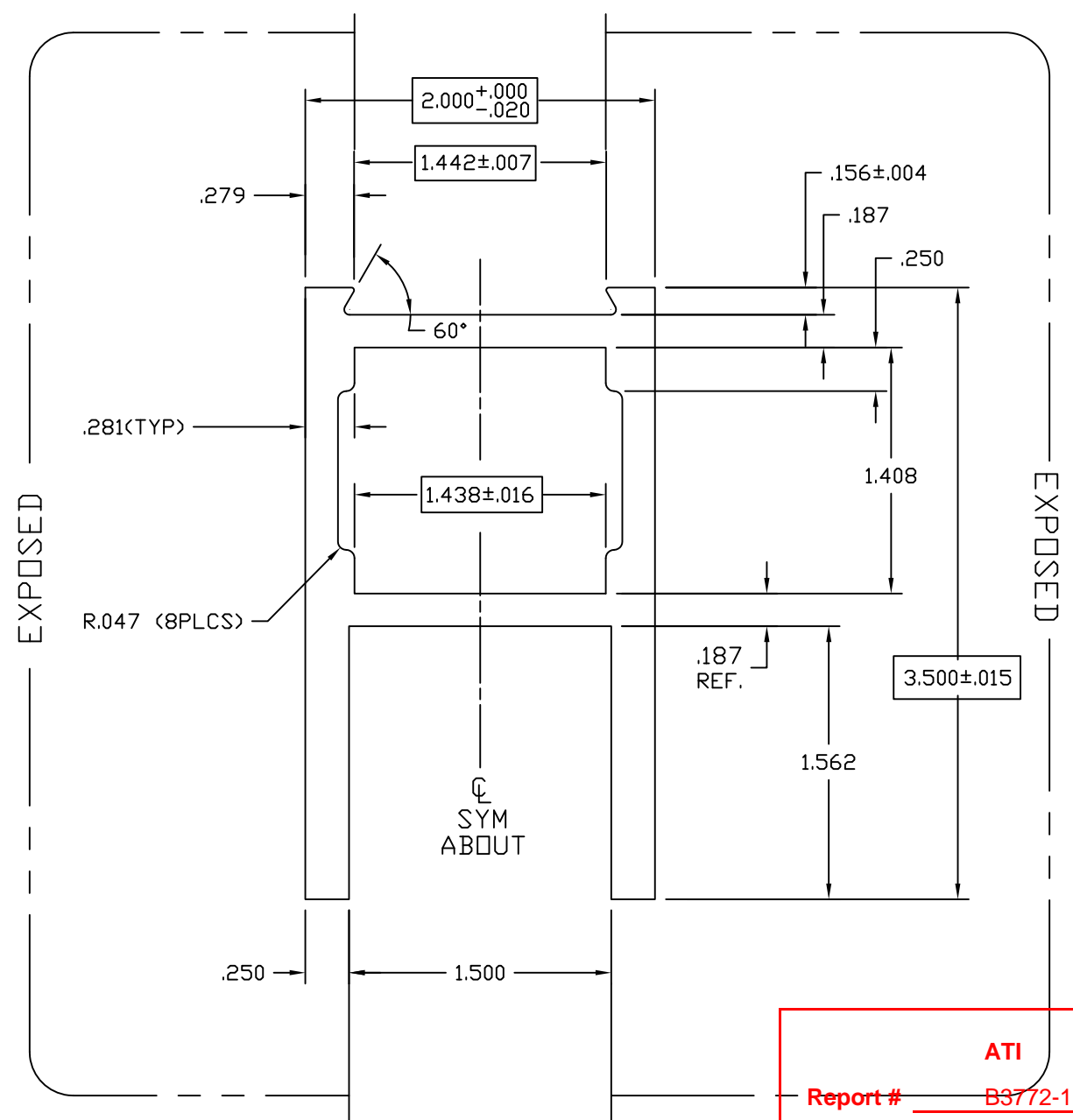
TUBELITE
 LEADING IN ECO-FRIENDLY OPERATING CURTAINWALL AND ENTRANCE SYSTEMS

3056 WALKER RIDGE NW, SUITE G
 WALKER, MICHIGAN 49544

WALL THK	NOTED	SECTION H	MAT'L	6063-T5	RATIO	17:1	
PERIMETER OUT (TOTAL)	19.538(30.445)	AREA	3.161	WGT/FT	3.717		
FACTOR	8	CIRCLE SIZE	6.325	JNT'LL VOL/ME	N/A		
RXX	.829	SXX	2.172	IXX	2.172	CXX	1.000
RYY	1.874	SYY	3.659	IYY	11.104	CYY	3.035

**MONUMENTAL HORIZONTAL RAIL 6" X 2"
 CUSTOM DOORS/FAMES**

DRAWN BY	DLH	DRWG DATE	08/06/64	APP'D BY	MJC	DATE APP'D	02/05/01
DWG SCALE	NOTED	PRODUCT CODE	110			E1051	C



ATI

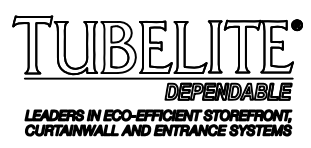
Report # B3772-116-45

Date 10/20/2011

Simulator Eric Barthele

Use lug P907
 .187 TYPICAL WALL THICKNESS UNLESS NOTED

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3056 WALKER RIDGE NW, SUITE G
 WALKER, MICHIGAN 49544

WALL THK.	NOTED	SECTION CLASS	H	MAT'L	6063-T5	RATIO	25
PERIMETER OUT (TOTAL)	14.538(29.0764)		AREA	2.228	WGT/FT	2.620	
FACTOR	6	CIRCLE SIZE	4.031	INFILL VOLUME	N/A		

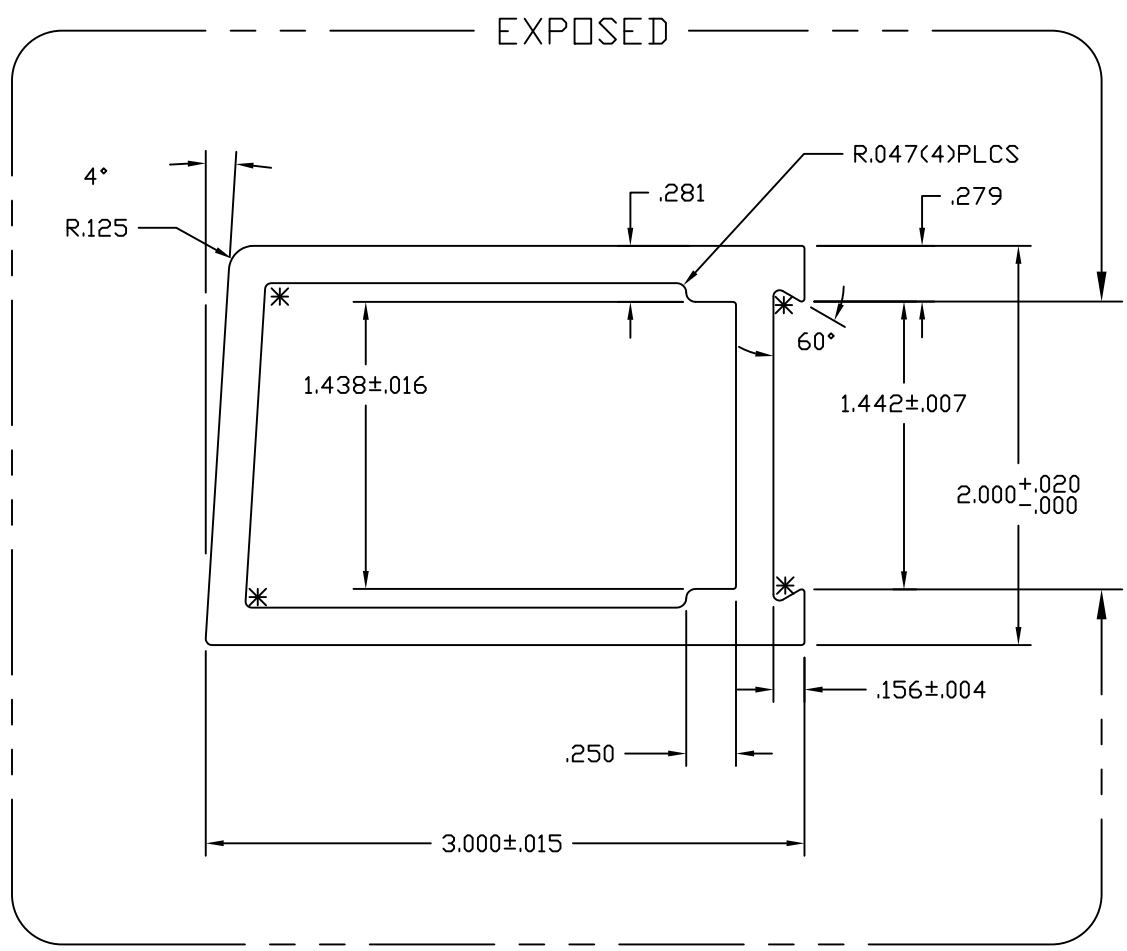
RXX	.0793	SXX	1.402	IXX	1.402	CXX	1.901
RYY	1.023	SYY	1.228	IYY	2.334	CYY	1.000

MONUMENTAL HORIZONTAL RAIL 3 1/2" X 2"
 CUSTOM DOORS/FRAME

DRAWN BY	DMT	DRWG DATE	09/04/01	APPV'D BY		DATE APPV'D	
DWG SCALE	FULL	PRODUCT CODE	110	E1050		REV	

REV	DATE	DESCRIPTION	INTL
X	xx/xx/xx	xxxxxxxxxxxxxx	xxx

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3056 WALKER RIDGE NW, SUITE G
 WALKER, MICHIGAN 49544

WALL THK.	.187	SECTION CLASS	H	MAT'L	6063-T5	RATIO	32:1
PERIMETER OUT (TOTAL)	10.254(18.239)		AREA	1.772	WGT/FT	2.084	
FACTOR	9	CIRCLE SIZE	3.594	INFILL VOLUME	N/A		

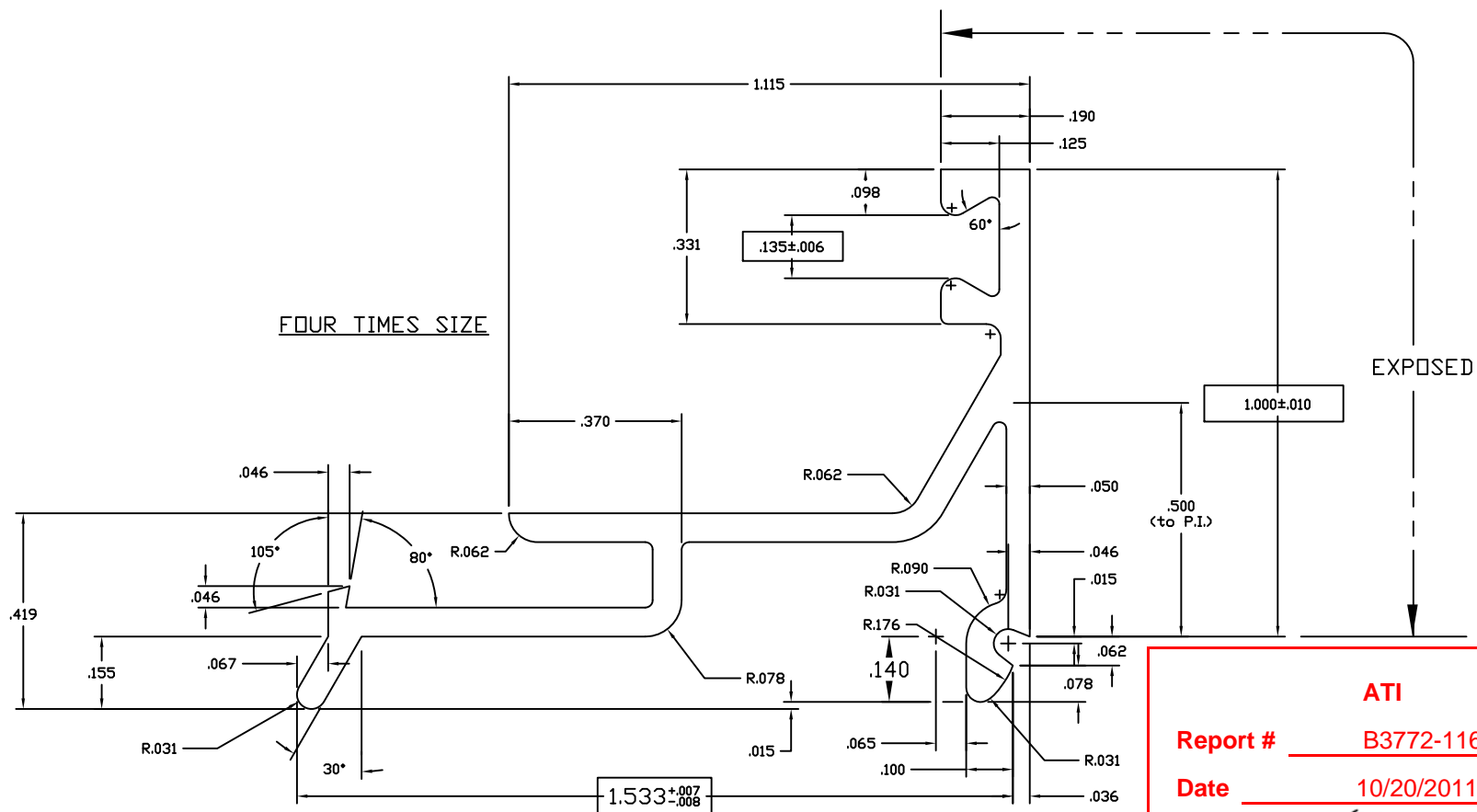
RXX	.780	SXX	1.067	IXX	1.079	CXX	1.540
RYY	1.039	SYX	1.243	IYY	1.915	CYY	1.011

MONUMENTAL VERTICAL STILE 2" X 3"
 CUSTOM DOORS/FRAMES

DRAWN BY	PR	DRWG DATE	07/23/84	APPV'D BY	DATE APPV'D	REV	A
DWG SCALE	FULL		PRODUCT CODE	110	E1047		

REV	DATE	DESCRIPTION	INTL
A	11/01/01	1.442+/-0.007 WAS 1.425/1.440	CRH

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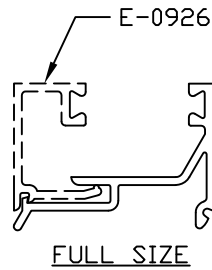


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Date 10/20/2011

Simulator Eric Barilko



NOTES:

- 1) USE E-0927/0928 FOR 1" MAT'L
- 2) USE E-0926/0928 FOR 5/8" MAT'L
- 3) USE GLAZING BEAD P-302 FOR BOTH SIDES OF GLASS OR PANEL

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TUBELITE
 LEADING IN ECO-FRIENDLY OPERATING CURTAINWALL AND ENTRANCE SYSTEMS

3056 WALKER RIDGE NW, SUITE G
 WALKER, MICHIGAN 49544

WALL THK .062	SECTION CLASS S	MAT'L 6063-T5	RATIO 59:1
PERIMETER OUT (TOTAL) 7.540	AREA .234	WGT/FT .275	
FACTOR 27	CIRCLE SIZE 1.938	INFILL VOLUME N/A	

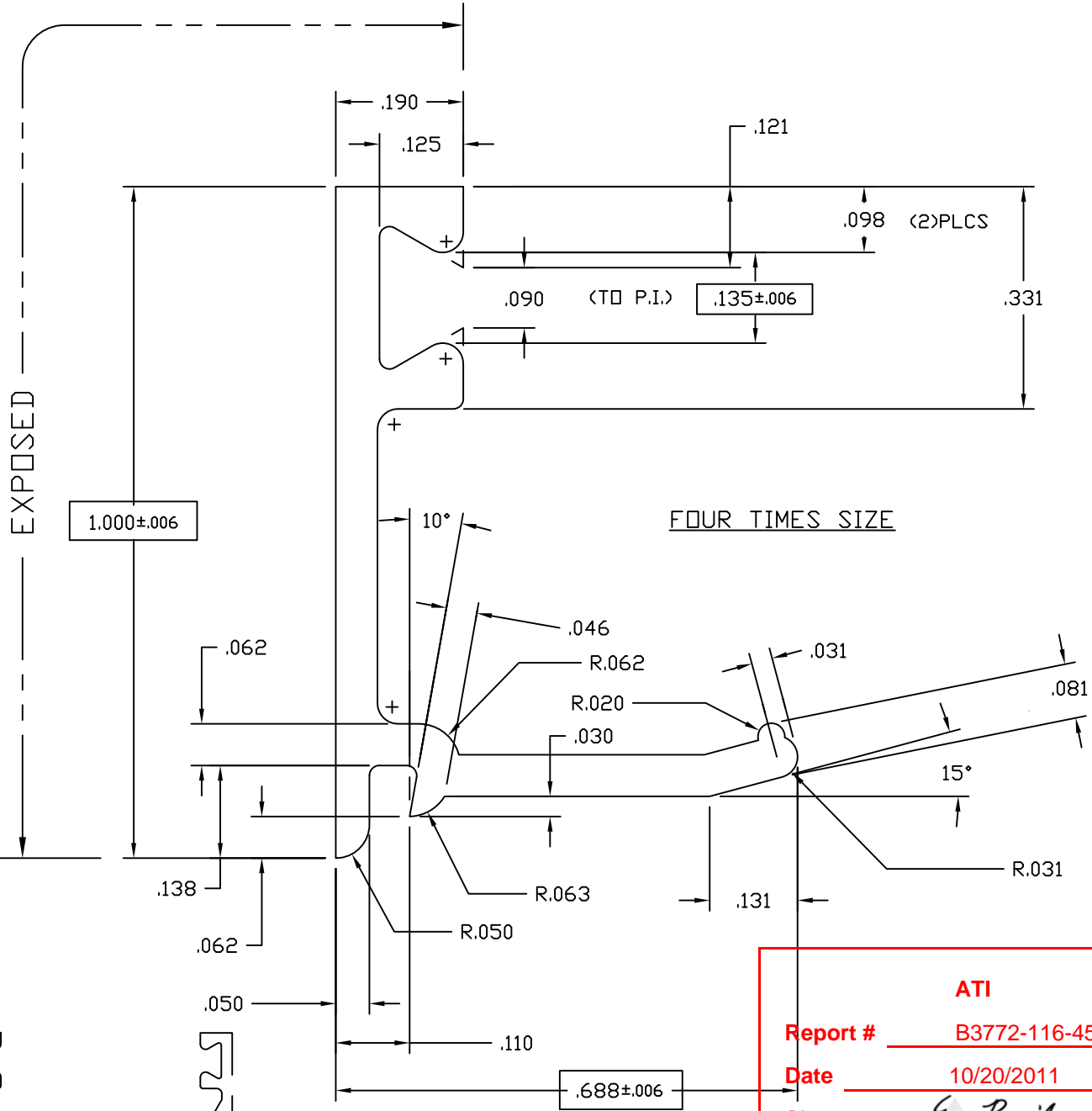
RXX .302	SXX .030	IXX .021	CXX .701
RYY .501	SYY .113	IYY .059	CYY 1.049

GLASS STOP, 1" HIGH FOR 1" GLASS STOCK DOORS

DRAWN BY DH	DRWG DATE 07/03/84	APPV'D BY	DATE APPV'D
DWG SCALE NOTED	PRODUCT CODE 100	E0928	

REV	DATE	DESCRIPTION	INTL
	10/12/07	REMOVED LEG	RW

E0927



ATI

Report # B3772-116-45

Date 10/20/2011

Simulator Eric Barilko

- NOTES:
- 1) USE WITH 1" INSULATED GLASS OR 1" PANEL
 - 2) USE GLAZING BEAD P-302 BOTH SIDES
 - 3) USE WITH E-0928 OR E-0929

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 WALKER, MICHIGAN 49544

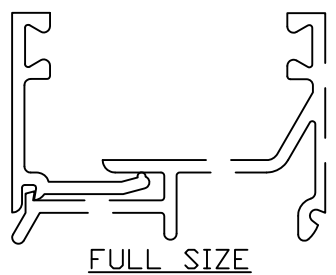
WALL THK.	.062	SECTION CLASS	S	MAT'L	6063-T5	RATIO	74:1
PERIMETER OUT (TOTAL)	4.001	AREA	.124	WGT/FT	.146		
FACTOR	27	CIRCLE SIZE	1.120	INFILL VOLUME	N/A		

RXX	.321	SXX	.023	IXX	.013	CXX	.321
RYY	.185	SYY	.008	IYY	.004	CYY	.185

GLASS STOP, 1" HIGH FOR 1" GLASS STOCK DOORS

DRAWN BY	CRH	DRWG DATE	04/21/99	APPV'D BY		DATE APPV'D	
DWG SCALE	NOTED	PRODUCT CODE	100	E0927		REV	

REV	DATE	DESCRIPTION	INTL
X	xx/xx/xx	XXXXXXXXXXXXXXXX	XXX

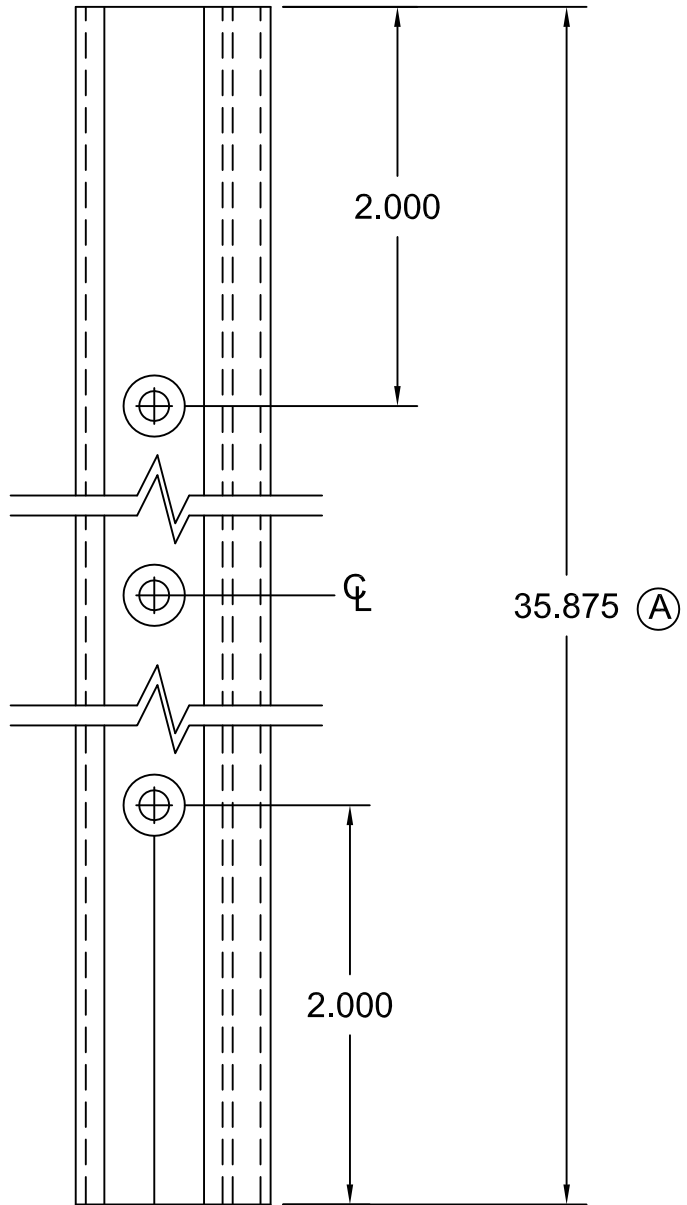


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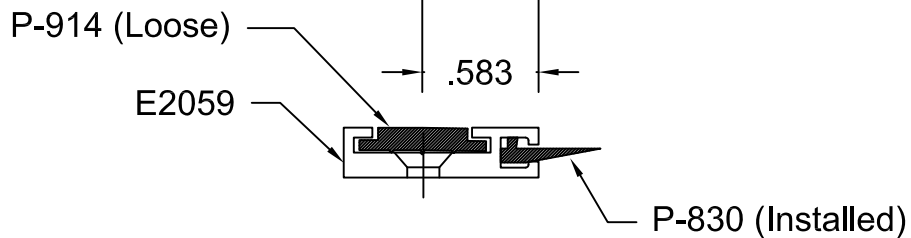
Date 10/20/2011

Simulator Eric Barilko



Operations:

1. Cut to length as required from E2059
2. Drill 3 holes with #25 Drl & Ctsk for S-064 (#6 FHCS)
3. Cut P-830 to length, Install, & Crimp ends
4. Cut P-914 to length, and install.
5. Paint ends as required
6. Ship with three (3) S064 Screws.



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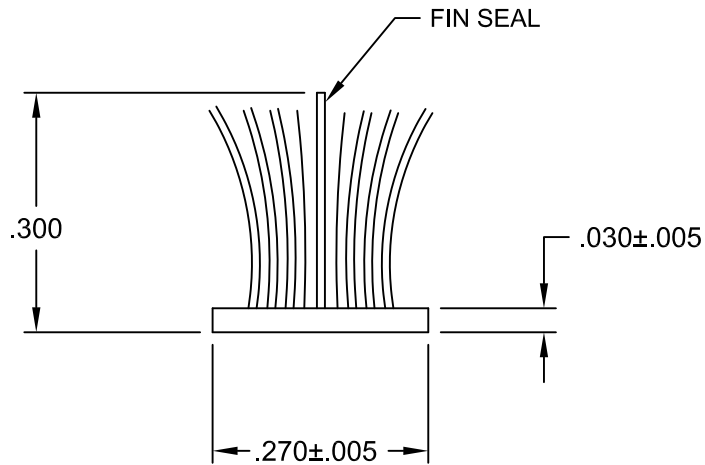
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3056 WALKER RIDGE NW, SUITE G
 WALKER, MICHIGAN 49544

REV	DATE	DESCRIPTION	INTL
	7/29/83	Released Part per ED 128	PJ
A	05/17/90	ED #1222 Dim was 34.875	KMH
B	8/24/01	Redrawn for CAD	DMT
C	06/19/03	OUTSOURCE - ADD S064 SCREWS	SRD

Door Seal to use with
E2058 Threshold

DRAWN BY PJ	DRWG DATE 05/09/83	APPV,D BY	DATE APPV'D
DRWG SCALE Full	PRODUCT CODE 380	P1275	
			REV C



Actual Size

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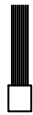
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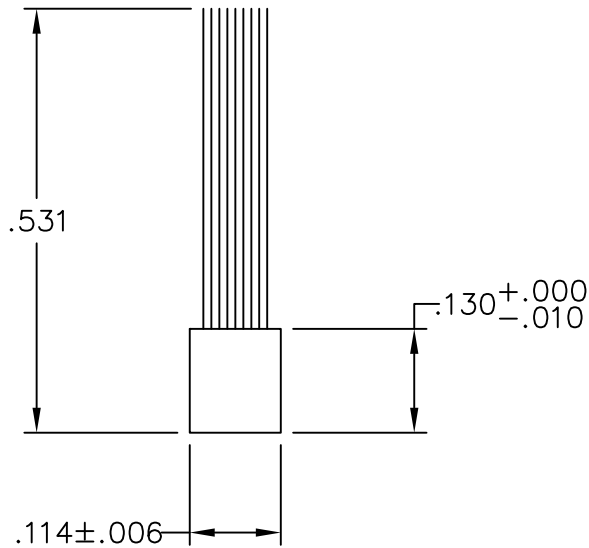
3056 WALKER RIDGE NW, SUITE G
 WALKER, MICHIGAN 49544

REV	DATE	DESCRIPTION	INTL
A	03/08/83	Release Part per ED 109	
B	05/29/02	Redrawn for CAD	DMT

<p>Poly Bond Fin-Seal Weathering use with Door Stop E1377</p>			
DRAWN BY	Don H	DRWG DATE	06/03/83
APPV,D BY		DATE APPV'D	
DRWG SCALE	Noted	PRODUCT CODE	380
<p>P1098A</p>			<p>B</p>



Actual Size



Four Times Size

Purchased Part

Schlege Pile Weathering
Part Number 364-1006-5101

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Date <u>10/20/2011</u>
Simulator <u>Eric Bahile</u>

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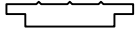


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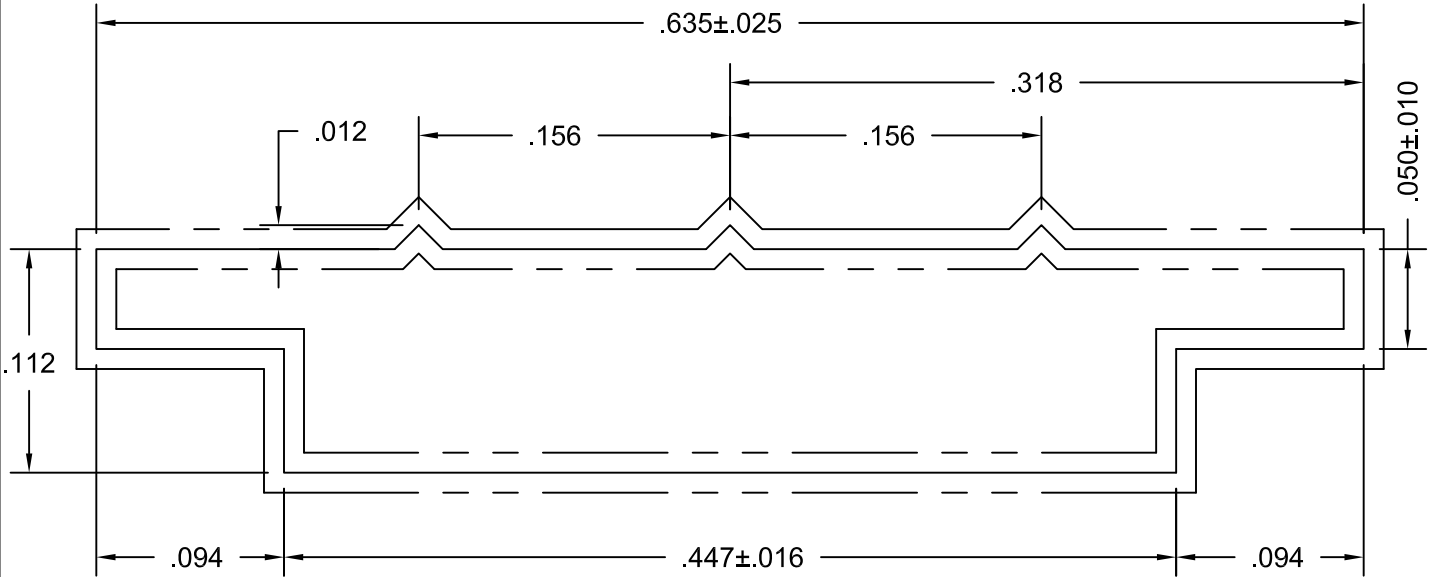
REV	DATE	DESCRIPTION	INTL
A	05/03/02	Redrawn for CAD	DMT

Pile Weathering to use with E1195 and E1152			
DRAWN BY PJ	DRWG DATE 10/03/75	APPV,D BY	DATE APPV'D
DRWG SCALE Noted	PRODUCT CODE 110	P938	
			REV A

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Report # B3772-116-45
Date 10/20/2011
Simulator Eric Baribe



ACTUAL SIZE



Ten Times Size

NOTE: Part to receive Silicone Bath after Extruding

Purchased Part
 Avon Rubber
 90 Durometer
 250' Rolls

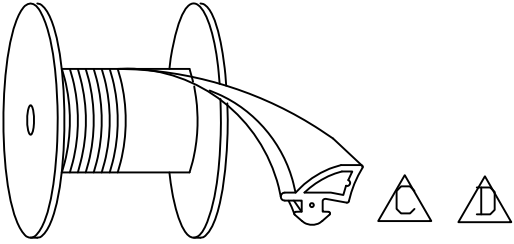
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 WALKER, MICHIGAN 49544

REV	DATE	DESCRIPTION	INTL
A	01/19/96	Redrawn for AutoCAD	DMT

EPDM Rubber Glazing Use with M1061, M1063, M1202			
DRAWN BY	KMH	DRWG DATE	01/19/96
APPV,D BY		DATE APPV'D	
DRWG SCALE	Noted	PRODUCT CODE	380
P914			REV A



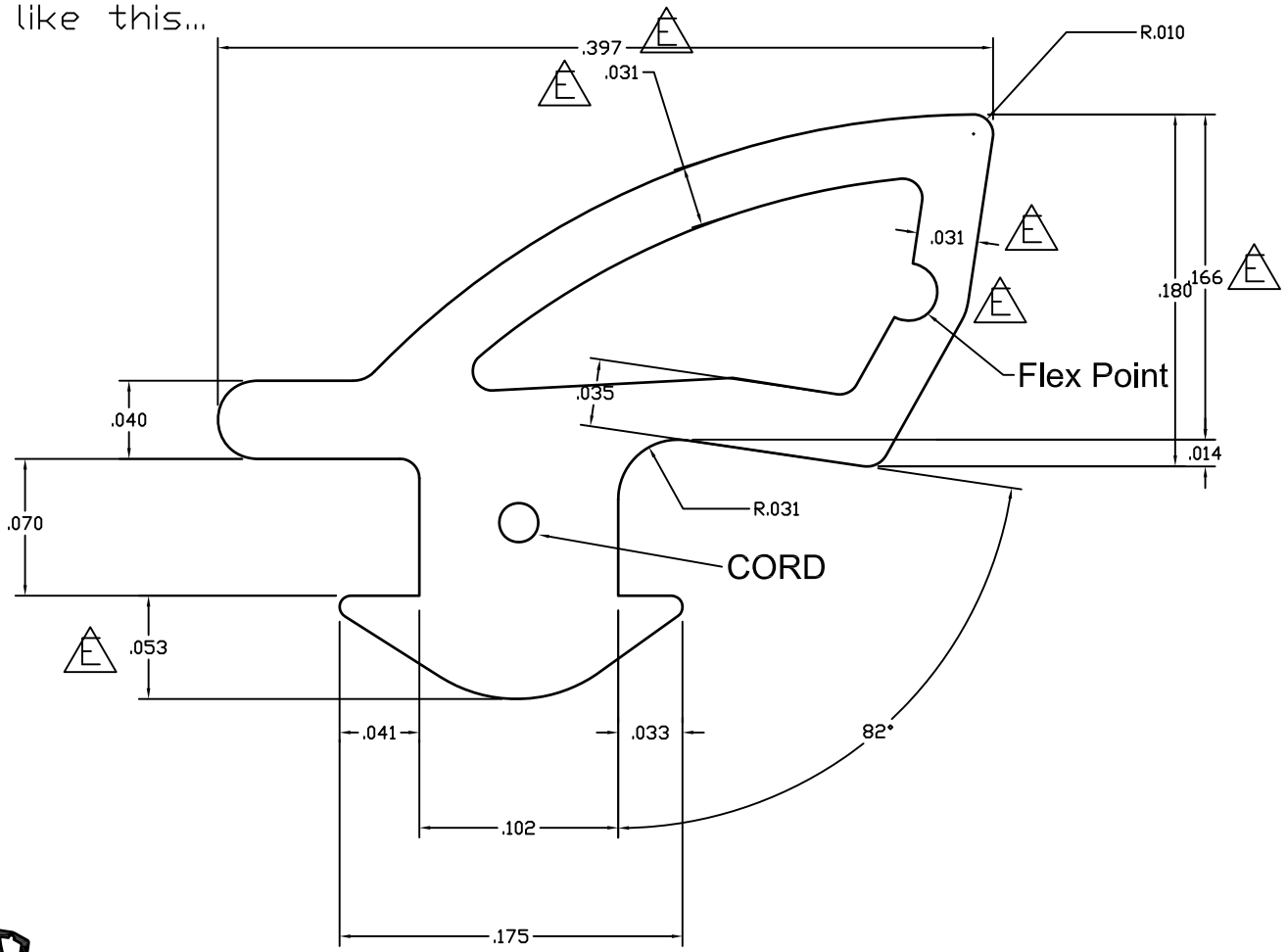
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Date 10/20/2011

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Material must UNREEL like this...



ACTUAL SIZE

MATERIAL: EPDM 60 DUROMETER WITH CORD

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 WALKER, MICHIGAN 49544

REV	DATE	DESCRIPTION	INTL
A	08/20/07	MODIFIED DART: .070 WAS .060 AND .051 WAS .061 ADDED CORD	NIK
B	10/16/08	ADDED MANUFACTURER'S TOLERANCES FOR REFERENCE	SRD
C	10/22/10	Modified gasket position of how the reel should roll	TT
D	12/16/10	Modified gasket position of how the reel should roll	TT
E	02/15/11	Rev flex pt, thickness was .032, .180 was .188	TT

1/4"-1" DOOR GLAZING GASKET
 500' ROLLS

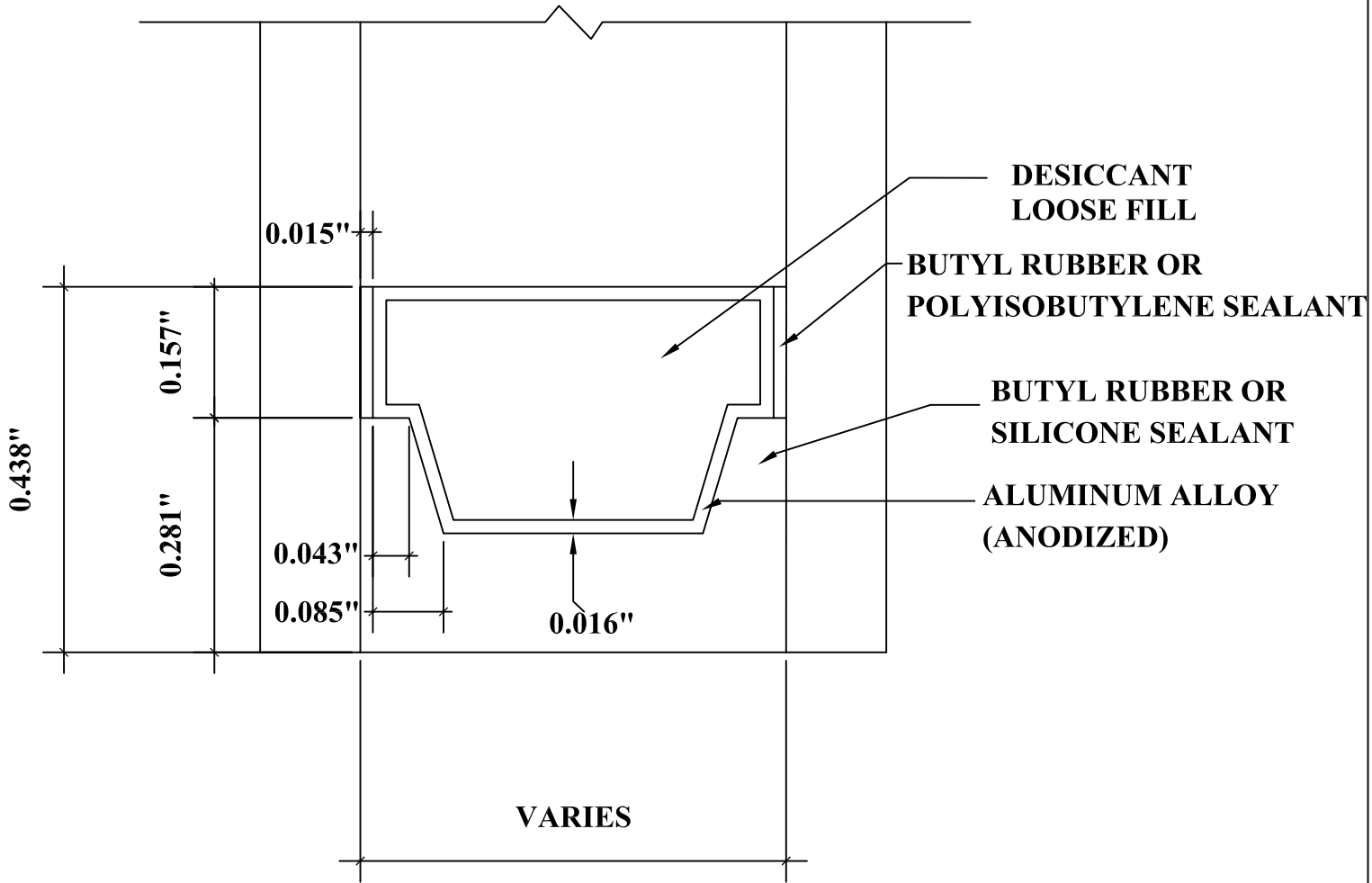
DRAWN BY NIK	DRWG DATE 4-17-07	APPV.D BY	DATE APPV'D	REV
DRWG SCALE 10X	PRODUCT CODE 100	P0017		E

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Date 10/20/2011

Simulator Eric Barilko



DETAIL FOR THERMAL MODELING OF
ALUMINUM SPACER (A1-D)