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ATLAS ARCHITECTURAL METALS, INC.
COMPUTER SIMULATION REPORT

SCOPE OF WORK
7000 SERIES CURTAIN WALL - AAMA 507

REPORT NUMBER
Q9146.01-116-45 R0

TEST DATE
01/22/24

ISSUE DATE
01/22/24

PAGES
23

DOCUMENT CONTROL NUMBER
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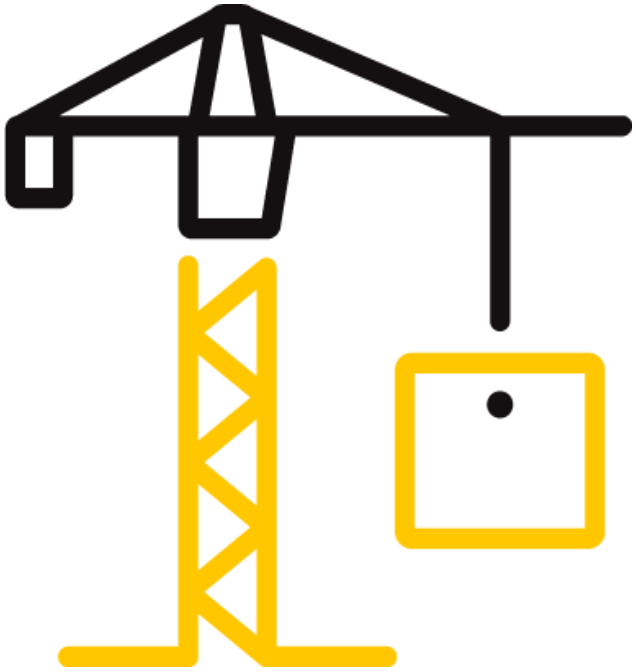

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TEST REPORT FOR ATLAS ARCHITECTURAL METALS, INC.
Report No.: Q9146.01-116-45 R0
Date: 01/22/24

REPORT ISSUED TO

ATLAS ARCHITECTURAL METALS, INC.
11940 Brittmoore Park Drive
Houston, Texas 77041

SECTION 1

SUMMARY

SERIES/MODEL: 7000 Series Curtain Wall

Architectural Testing, Inc. (an Intertek company), dba Intertek Building & Construction (Intertek B&C) was contracted to perform AAMA 507 computer simulations utilizing thermal thermal modeling computer software developed by Lawrence Berkeley National Laboratory Laboratory (LBNL). Results obtained are simulated values and were secured using the designated test methods.

Intertek B&C is an NFRC accredited simulation laboratory and all simulations were conducted in full compliance with NFRC approved procedures and specifications.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. The record retention end date of this report is 01/22/29.

For INTERTEK B&C:

COMPLETED BY:	Allison M. Ford	**REVIEWED BY:**	Eric S. Leitner
TITLE:	Technician Team Leader	**TITLE:**	Manager - Thermal Testing & Simulations
SIGNATURE:	Allison M. Ford Digitally Signed by: Allison Ford	**SIGNATURE:**	Eric S. Leitner Digitally Signed by: Eric S. Leitner
DATE:	01/22/24	**DATE:**	01/22/24

AMF:amf

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SECTION 2
TEST METHODS

The products were evaluated in accordance with the following:

AAMA 507-15, *Standard Practice for Determining the Thermal Performance Characteristics of Fenestration Systems Installed in Commercial Buildings*

ANSI/NFRC 100-2023, *Procedure for Determining Fenestration Product U-Factors*

ANSI/NFRC 200-2023, *Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence*

SECTION 3
TEST PROCEDURE

The total product, including specific frame, spacer, and glass details, was modeled using NFRC approved software.

FRAME AND EDGE MODELING	THERM 7.8.57
CENTER-OF-GLASS MODELING	WINDOW 7.8.57
TOTAL PRODUCT CALCULATIONS	WINDOW 7.8.57
SPECTRAL DATA LIBRARY	IGDB 95.0

Modeling Assumptions / Technical Interpretations

Any modeling assumptions and technical interpretations required to model this product are listed below.

1) To prevent air infiltration, tape was applied to all interior sash crack locations.
2) This product is available in either a painted or anodized finish. These two finish types may be grouped in accordance with ANSI/NFRC 100-2023, Section 4.2.1.L. The painted finish was simulated since it is the worst case (highest emissivity).
3) The center-line modeling approach was conducted using the horizontal intermediate for the head and sill members and the vertical intermediate for the jambs. This procedure is outlined in the NFRC Simulation Manual, Section 8.9.
4) Non-continuous hardware was not modeled.

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SECTION 4
SIMULATION SPECIMEN DESCRIPTION

SERIES/MODEL	7000 Series Curtain Wall
PRODUCT TYPE	Glazed Wall System
FRAME MATERIAL	AU - Thermally Improved
SASH MATERIAL	NA - Not Applicable

GLAZING OPTIONS					
	OUTER PANE	***MIDDLE PANE***	***INNER PANE***	***GAP SIZES***	***IG OVERALL***
GL1	1/4"	N/A	1/4"	0.500"	1"
GL2	1/4"	Heat Mirror	1/4"	0.250"	1"

GL1: Dual glazed IG unit (COG=0.48 - COG=0.20)
GL2: Dual glazed IG unit w/ heat mirror (COG=0.18 - COG=0.10)

SPACER OPTIONS			
TYPE	***PRIMARY SEAL***	***SECONDARY SEAL***	***CODE***
Generic Aluminum Dual Seal Spacer	Butyl Rubber	Butyl Rubber	A1-D

SECTION 5
MEASURED SIMULATION DATA

U-FACTOR CALCULATIONS	
Exterior Air Temperature	-0.4°F
Exterior Wind Velocity	12.3 mph (Perpendicular Flow)
Interior Air Temperature	69.8°F

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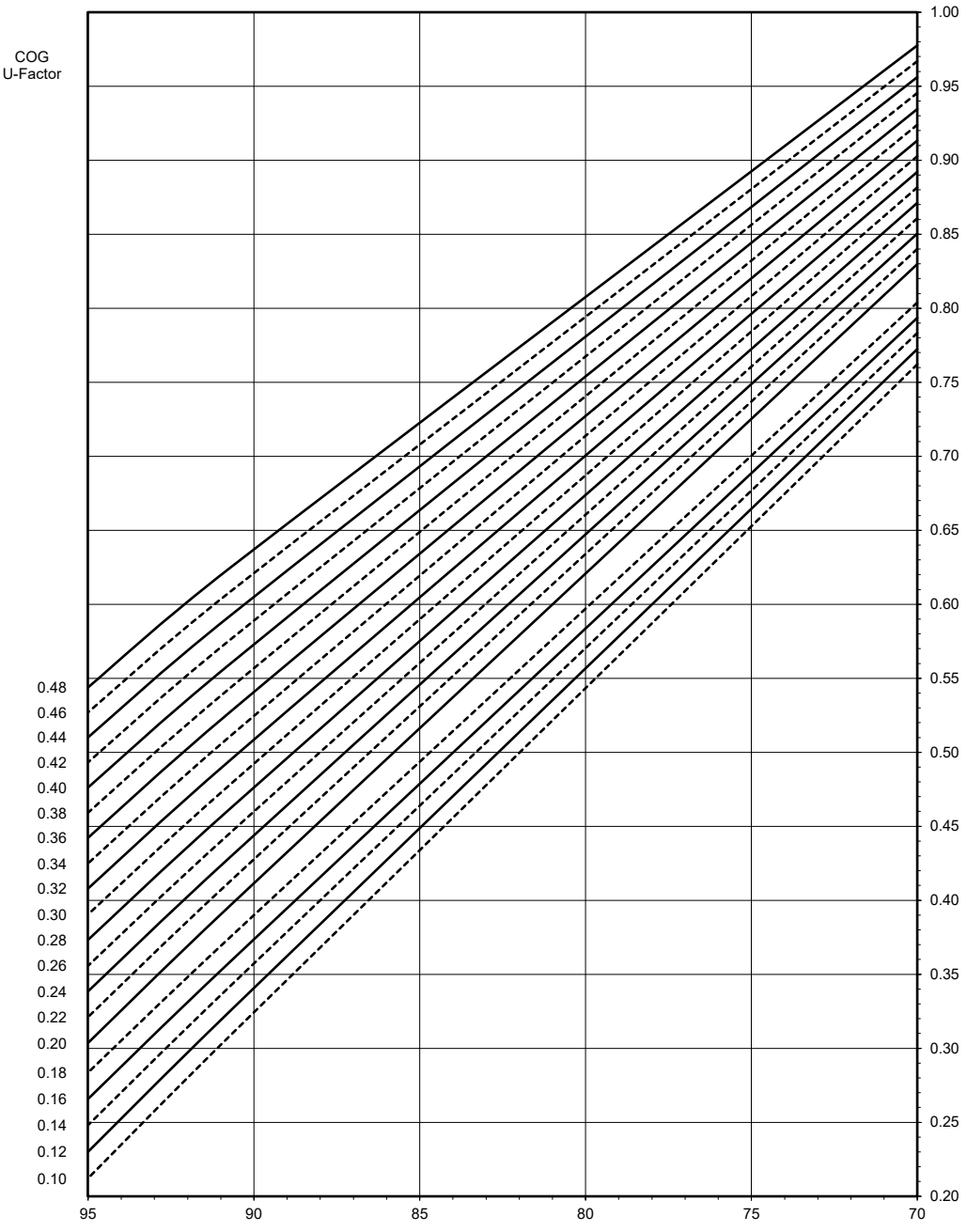
SECTION 6
SIMULATION RESULTS

U-FACTOR CALCULATIONS: System U-Factor vs. Percentage of Vision Area



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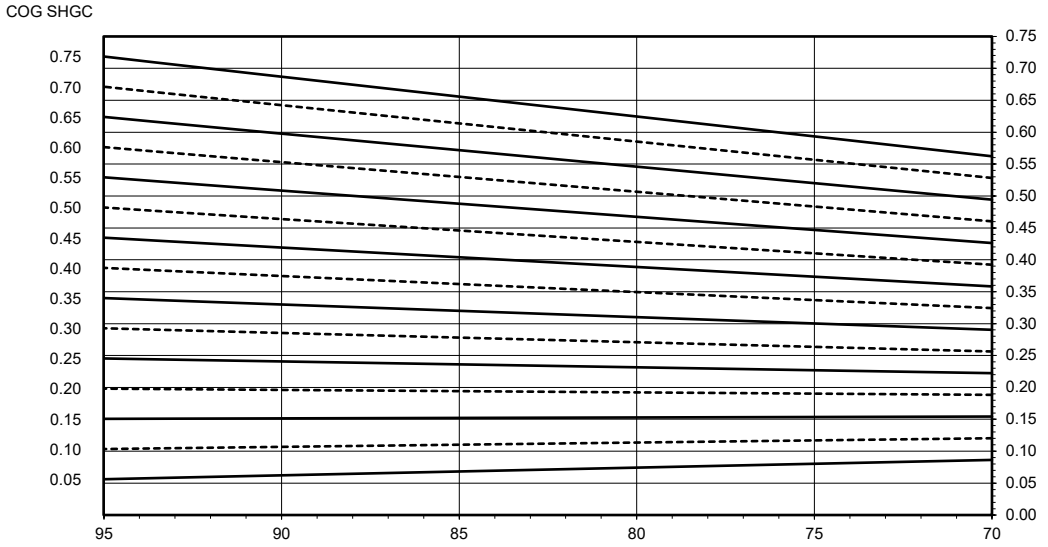
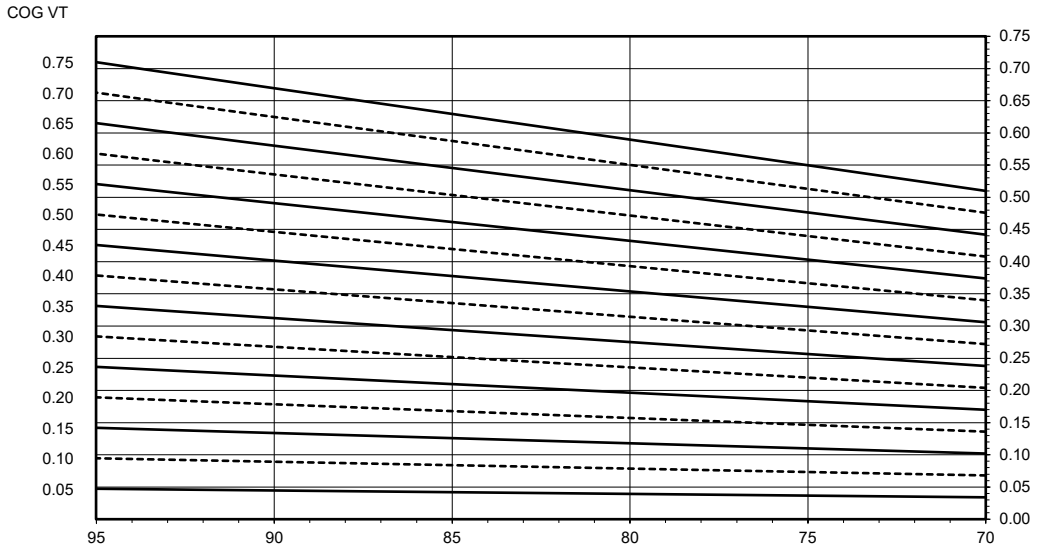
SIMULATION RESULTS

SHGC CALCULATIONS: System SHGC vs. Percentage of Vision Area



Vision Area / Total Area (%)

VT CALCULATIONS: System VT vs. Percentage of Vision Area



Vision Area / Total Area (%)

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SECTION 6
SIMULATION RESULTS

U-FACTOR CALCULATIONS (7000 Series Curtain Wall)		
Size Specific U-Factor Matrix*		
Glazing Option	**Center-of-Glass U-Factor**	**Overall U-Factor**
1	0.48	0.63
2	0.46	0.61
3	0.44	0.59
4	0.42	0.58
5	0.40	0.56
6	0.38	0.54
7	0.36	0.53
8	0.34	0.51
9	0.32	0.50
10	0.30	0.48
11	0.28	0.46
12	0.26	0.45
13	0.24	0.43
14	0.22	0.41
15	0.20	0.40
16	0.18	0.38
17	0.16	0.36
18	0.14	0.34
19	0.12	0.33
20	0.10	0.31

*The size specific U-Factor matrix is based on the Glazed Wall System NFRC specimen size of 2000mm x 2000mm (78.75 in x 78.75 in). This represents 90.7% Vision Area / Total Area.

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SIMULATION RESULTS

SHGC/VT CALCULATIONS (7000 Series Curtain Wall)			
Size Specific SHGC Matrix*		Size Specific VT Matrix*	
Center-of-Glass SHGC	Overall SHGC	Center-of-Glass VT	Overall VT
0.75	0.69	0.75	0.67
0.70	0.65	0.70	0.63
0.65	0.60	0.65	0.58
0.60	0.56	0.60	0.54
0.55	0.51	0.55	0.49
0.50	0.47	0.50	0.45
0.45	0.42	0.45	0.40
0.40	0.38	0.40	0.36
0.35	0.33	0.35	0.31
0.30	0.29	0.30	0.27
0.25	0.24	0.25	0.22
0.20	0.20	0.20	0.18
0.15	0.15	0.15	0.13
0.10	0.11	0.10	0.09
0.05	0.06	0.05	0.04

*The size specific SHGC and VT matrices are based on the Glazed Wall System NFRC specimen size of 2000mm x 2000mm (78.75 in x 78.75 in). This represents 90.7% Vision Area / Total Area.

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SECTION 6
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (7000 Series Curtain Wall)									
Option Number	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							70.00% Vision Area	ANSI/NFRC 100-2023	95.00% Vision Area
1	0.48	43.7°F	Head	1.3359	2.0336	0.4659	0.9776	0.6257	0.5439
			L. Jamb	1.3444	2.0684	0.4629			
			R. Jamb	1.3444	2.0684	0.4629			
			Mullion	2.6888	2.0684	0.4629			
			Sill	1.3529	1.9961	0.4659			
2	0.46	44.8°F	Head	1.3359	2.0338	0.4519	0.9669	0.6095	0.5270
			L. Jamb	1.3444	2.0707	0.4485			
			R. Jamb	1.3444	2.0707	0.4484			
			Mullion	2.6888	2.0707	0.4484			
			Sill	1.3529	1.9964	0.4520			
3	0.44	45.8°F	Head	1.3359	2.0363	0.4374	0.9562	0.5933	0.5101
			L. Jamb	1.3444	2.0709	0.4346			
			R. Jamb	1.3444	2.0709	0.4346			
			Mullion	2.6888	2.0709	0.4346			
			Sill	1.3529	1.9991	0.4375			
4	0.42	46.8°F	Head	1.3359	2.0366	0.4239	0.9455	0.5771	0.4933
			L. Jamb	1.3444	2.0713	0.4211			
			R. Jamb	1.3444	2.0712	0.4210			
			Mullion	2.6888	2.0712	0.4211			
			Sill	1.3529	1.9995	0.4239			
5	0.40	47.9°F	Head	1.3359	2.0369	0.4100	0.9346	0.5608	0.4762
			L. Jamb	1.3444	2.0717	0.4072			
			R. Jamb	1.3444	2.0716	0.4072			
			Mullion	2.6888	2.0717	0.4072			
			Sill	1.3529	2.0000	0.4100			
6	0.38	48.9°F	Head	1.3359	2.0373	0.3965	0.9240	0.5446	0.4592
			L. Jamb	1.3444	2.0721	0.3938			
			R. Jamb	1.3444	2.0721	0.3937			
			Mullion	2.6888	2.0721	0.3937			
			Sill	1.3529	2.0005	0.3965			

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TOTAL PRODUCT CALCULATIONS (7000 Series Curtain Wall)									
Option Number	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							70.00% Vision Area	ANSI/NFRC 100-2023	95.00% Vision Area
7	0.36	50.0°F	Head	1.3359	2.0377	0.3829	0.9133	0.5284	0.4423
			L. Jamb	1.3444	2.0726	0.3802			
			R. Jamb	1.3444	2.0726	0.3802			
			Mullion	2.6888	2.0726	0.3802			
			Sill	1.3529	2.0011	0.3829			
8	0.34	51.0°F	Head	1.3359	2.0382	0.3694	0.9027	0.5120	0.4250
			L. Jamb	1.3444	2.0732	0.3667			
			R. Jamb	1.3444	2.0732	0.3666			
			Mullion	2.6888	2.0732	0.3667			
			Sill	1.3529	2.0018	0.3694			
9	0.32	52.0°F	Head	1.3359	2.0388	0.3560	0.8921	0.4958	0.4080
			L. Jamb	1.3444	2.0738	0.3533			
			R. Jamb	1.3444	2.0738	0.3532			
			Mullion	2.6888	2.0738	0.3532			
			Sill	1.3529	2.0024	0.3559			
10	0.30	53.1°F	Head	1.3359	2.0393	0.3426	0.8817	0.4794	0.3905
			L. Jamb	1.3444	2.0744	0.3399			
			R. Jamb	1.3444	2.0744	0.3399			
			Mullion	2.6888	2.0744	0.3399			
			Sill	1.3529	2.0031	0.3426			
11	0.28	54.2°F	Head	1.3359	2.0400	0.3293	0.8712	0.4632	0.3733
			L. Jamb	1.3444	2.0752	0.3266			
			R. Jamb	1.3444	2.0752	0.3266			
			Mullion	2.6888	2.0752	0.3266			
			Sill	1.3529	2.0039	0.3292			
12	0.26	55.2°F	Head	1.3359	2.0407	0.3159	0.8608	0.4467	0.3558
			L. Jamb	1.3444	2.0760	0.3133			
			R. Jamb	1.3444	2.0760	0.3133			
			Mullion	2.6888	2.0760	0.3133			
			Sill	1.3529	2.0048	0.3159			

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TOTAL PRODUCT CALCULATIONS (7000 Series Curtain Wall)									
Option Number	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							70.00% Vision Area	ANSI/NFRC 100-2023	95.00% Vision Area
13	0.24	56.3°F	Head	1.3359	2.0414	0.3027	0.8504	0.4304	0.3385
			L. Jamb	1.3444	2.0768	0.3001			
			R. Jamb	1.3444	2.0768	0.3001			
			Mullion	2.6888	2.0768	0.3001			
			Sill	1.3529	2.0057	0.3026			
14	0.22	57.3°F	Head	1.3359	2.0423	0.2894	0.8401	0.4141	0.3212
			L. Jamb	1.3444	2.0778	0.2868			
			R. Jamb	1.3444	2.0778	0.2868			
			Mullion	2.6888	2.0778	0.2868			
			Sill	1.3529	2.0067	0.2893			
15	0.20	58.4°F	Head	1.3359	2.0432	0.2763	0.8298	0.3977	0.3037
			L. Jamb	1.3444	2.0787	0.2737			
			R. Jamb	1.3444	2.0787	0.2737			
			Mullion	2.6888	2.0787	0.2737			
			Sill	1.3529	2.0077	0.2762			
16	0.18	59.5°F	Head	1.3359	1.9125	0.2540	0.8039	0.3763	0.2837
			L. Jamb	1.3444	2.0614	0.2527			
			R. Jamb	1.3444	2.0614	0.2528			
			Mullion	2.6888	2.0614	0.2528			
			Sill	1.3529	1.9901	0.2551			
17	0.16	60.6°F	Head	1.3359	1.9131	0.2405	0.7935	0.3598	0.2658
			L. Jamb	1.3444	2.0624	0.2394			
			R. Jamb	1.3444	2.0624	0.2394			
			Mullion	2.6888	2.0624	0.2394			
			Sill	1.3529	1.9911	0.2417			
18	0.14	61.6°F	Head	1.3359	1.9150	0.2264	0.7833	0.3433	0.2482
			L. Jamb	1.3444	2.0647	0.2254			
			R. Jamb	1.3444	2.0647	0.2254			
			Mullion	2.6888	2.0647	0.2254			
			Sill	1.3529	1.9934	0.2276			

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TOTAL PRODUCT CALCULATIONS (7000 Series Curtain Wall)									
Option Number	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							70.00% Vision Area	ANSI/NFRC 100-2023	95.00% Vision Area
19	0.12	62.7°F	Head	1.3359	1.9157	0.2130	0.7724	0.3265	0.2302
			L. Jamb	1.3444	2.0657	0.2121			
			R. Jamb	1.3444	2.0657	0.2121			
			Mullion	2.6888	2.0657	0.2121			
			Sill	1.3529	1.9844	0.2141			
20	0.10	63.9°F	Head	1.3359	1.9164	0.1995	0.7621	0.3099	0.2122
			L. Jamb	1.3444	2.0668	0.1987			
			R. Jamb	1.3444	2.0668	0.1987			
			Mullion	2.6888	2.0668	0.1987			
			Sill	1.3529	1.9856	0.2007			

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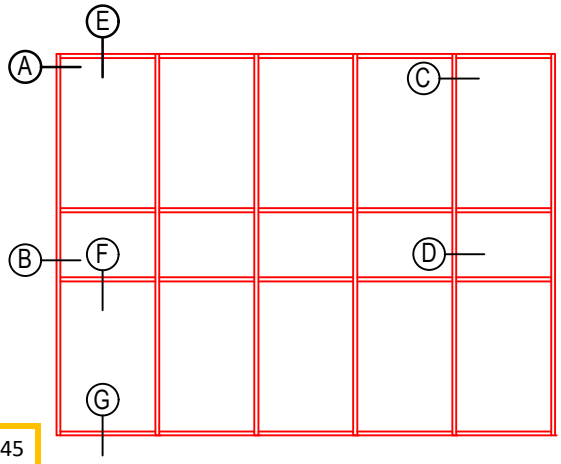
SECTION 7
DRAWINGS / BILL OF MATERIALS

The drawings which follow have been reviewed by Intertek B&C and are representative of the simulation result(s) reported herein. Any deviations are documented herein or on the drawings.

ATLAS ARCHITECTURAL METALS

7000 SERIES CURTAIN WALL
2-1/2" x 7" SYSTEM
(1/4" & 1" GLAZING)



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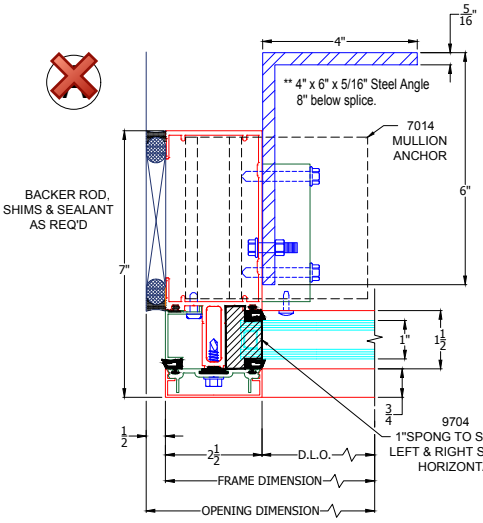
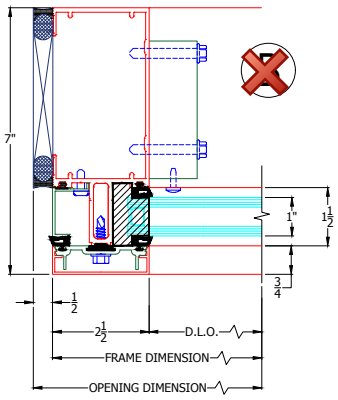
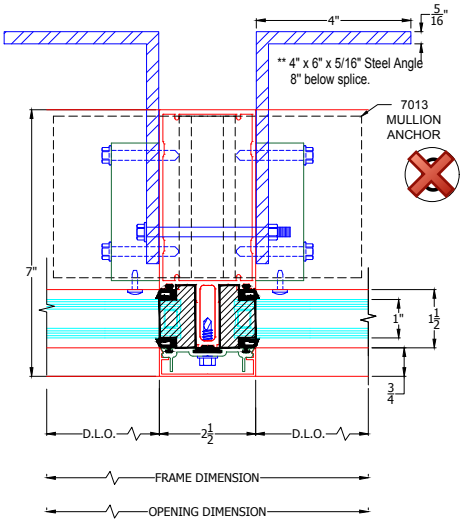
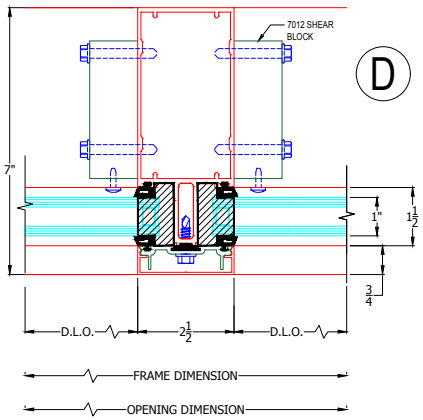
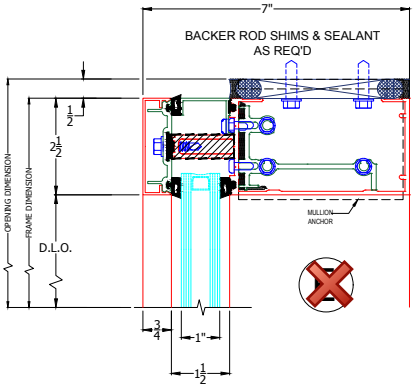
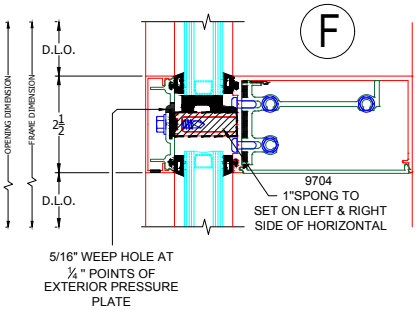




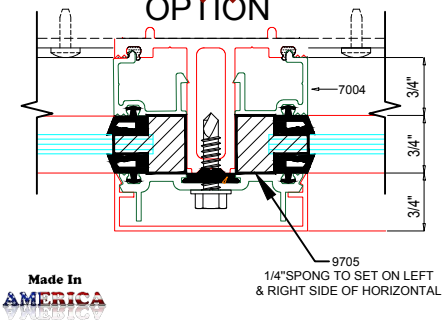




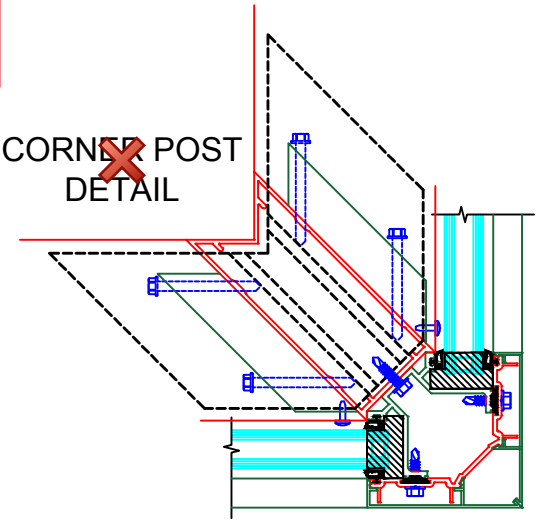


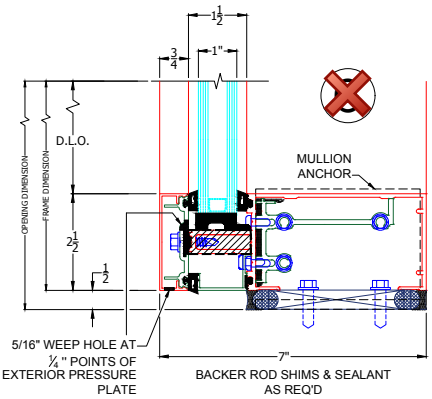


1/4" REDUCER OPTION



CORNER POST DETAIL



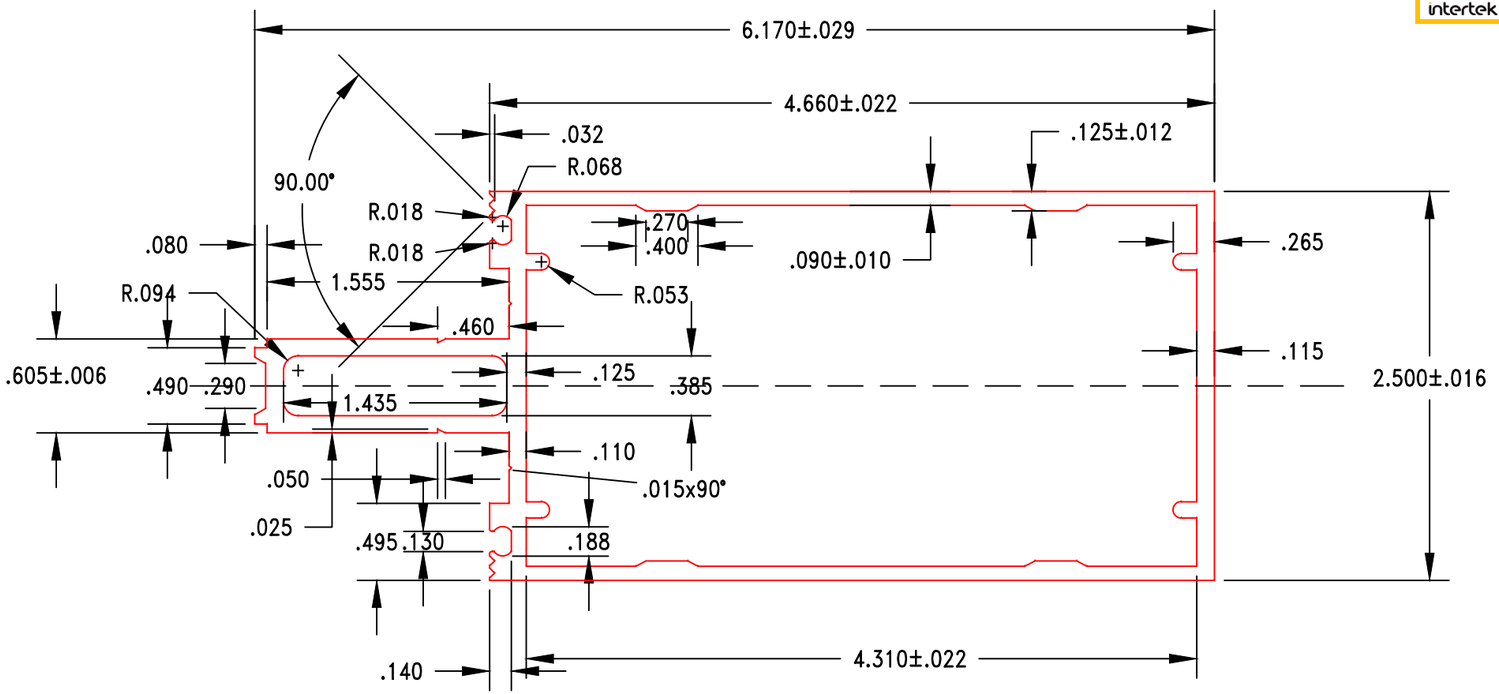


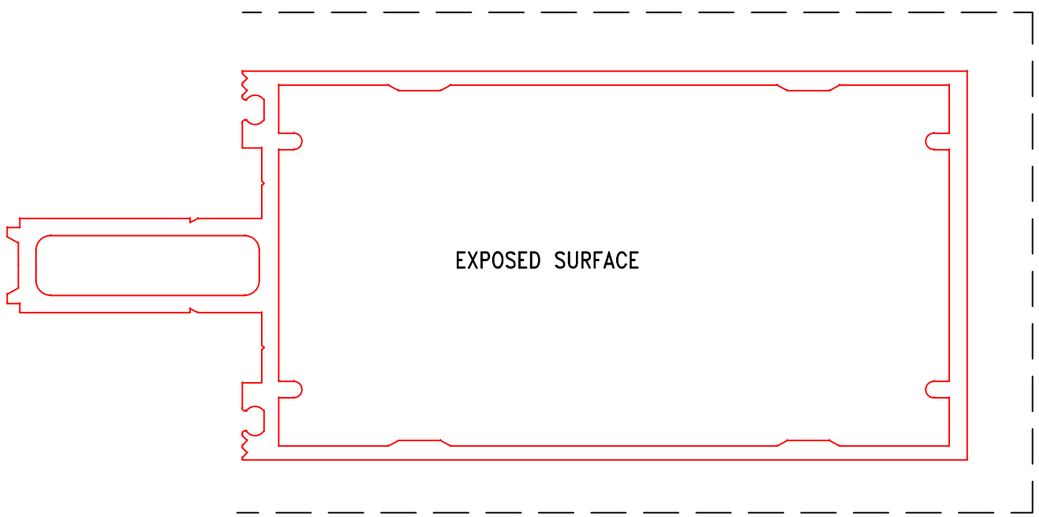
Made In AMERICA

STANDARD COMMERCIAL TOLERANCES APPLY UNLESS NOTED.
TYP WALL THICKNESS TO BE AS NOTED.
BREAK SHARP CORNERS AT R.010 UNLESS OTHERWISE NOTED.

NOT TO SCALE

intertek
Report #: Q9146-116-45
Date: 01/22/24
Verified by: Allison M Ford





ACTUAL SIZE

PHONE:	FAX:
CUSTOMER	
DESCRIPTION	
MATERIAL	6063-T5
EST. AREA	1.927
EST. WT/FT	2.314
EST. PERIMETER	18.720/17.829
BREAK SHARP CORNERS AT	
UNSP.WALL THK.	AS NOTED
SCALE	FULL
FEEDER	
DIE TYPE	13X8-1HOLE HOLLOW
BACKER TYPE	PORTHOLE
BOLSTER	19437
CIRCLE SIZE	6.432
DRAWN BY:	FH
DATE	5/13/13

DATE	REVISION
NFQ #	

DIE NO. 7000

STANDARD COMMERCIAL TOLERANCES APPLY UNLESS NOTED.

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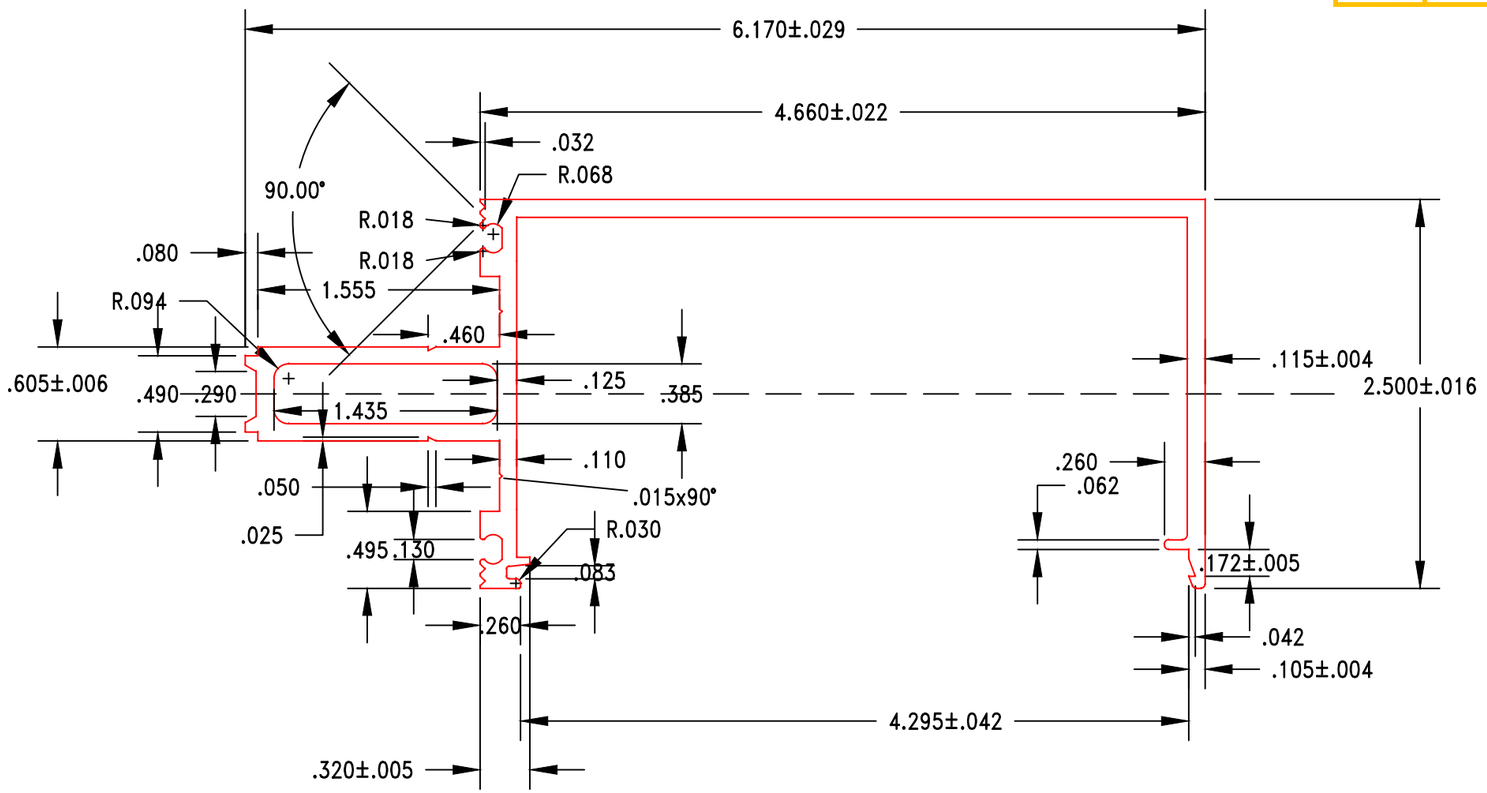
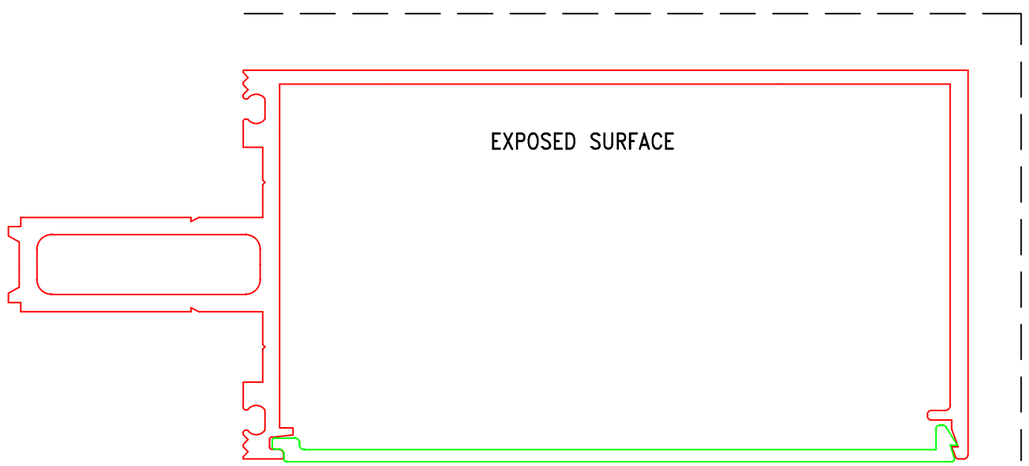
BREAK SHARP CORNERS AT R.010 UNLESS OTHERWISE NOTED.

NOT TO SCALE

intertek
Report #: Q9146-116-45
Date: 01/22/24
Verified by: Allison M Ford





MATES WITH NF8107, NF8109 & AE4424

ACTUAL SIZE

PHONE:	FAX:
CUSTOMER	
DESCRIPTION	
MATERIAL	6063–T5
EST. AREA	1.545
EST. WT/FT	1.854
EST. PERIMETER	27.54
BREAK SHARP CORNERS AT	
UNSP.WALL THK.	AS NOTED
SCALE	FULL
FEEDER	
DIE TYPE	13X8–1HOLE
BACKER TYPE	PORTHOLE
BOLSTER	13X5–1HOLE
CIRCLE SIZE	6.432
DRAWN BY:	FH
DATE	5/10/13

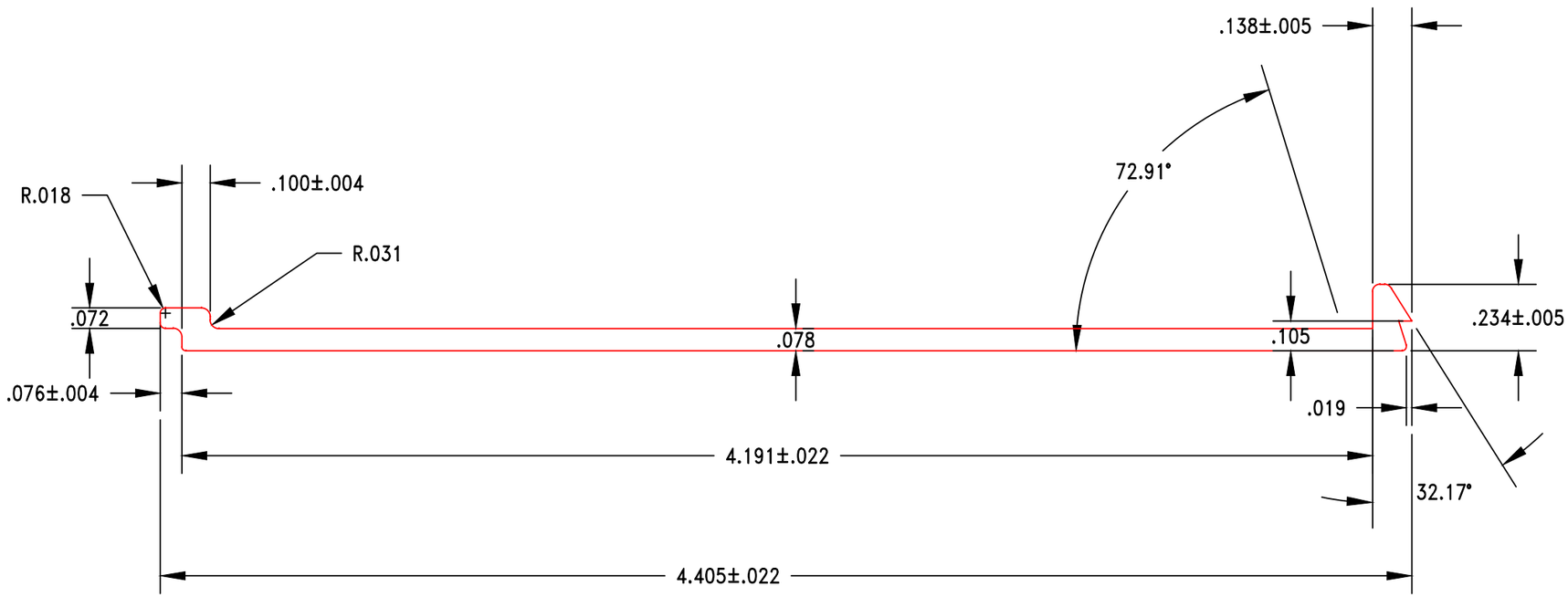
DATE	REVISION
NFQ #	

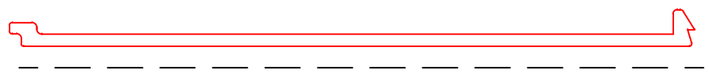
DIE NO. 7001

STANDARD COMMERCIAL TOLERANCES APPLY UNLESS NOTED.
TYP WALL THICKNESS TO BE AS NOTED.
BREAK SHARP CORNERS AT R.010 UNLESS OTHERWISE NOTED.

NOT TO SCALE

intertek
Report #: Q9146-116-45
Date: 01/22/24
Verified by: Allison M Ford





EXPOSED SURFACE

ACTUAL SIZE

PHONE: *FAX:*

CUSTOMER

DESCRIPTION

MATERIAL
6063-T5
EST. AREA
.363
EST. WT/FT
.436
EST. PERIMETER
9.316
BREAK SHARP CORNERS AT
UNSP.WALL THK.
AS NOTED
SCALE
2X
FEEDER
10X1-2HOLES
DIE TYPE
10X1-1/2-2HOLES
BACKER TYPE
10X2-3/4-2HOLES
BOLSTER
7873
CIRCLE SIZE
4.405
DRAWN BY:
FH
DATE
5/10/13

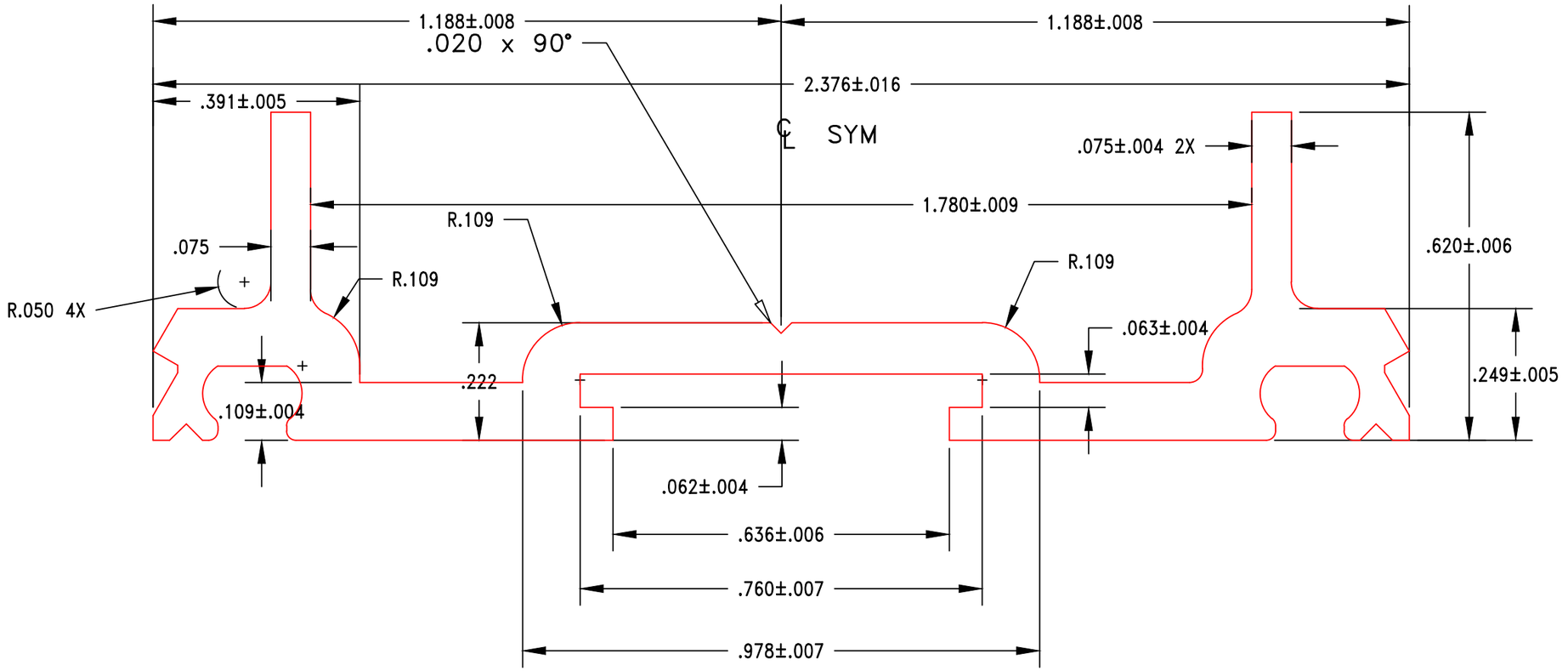
DATE	REVISION

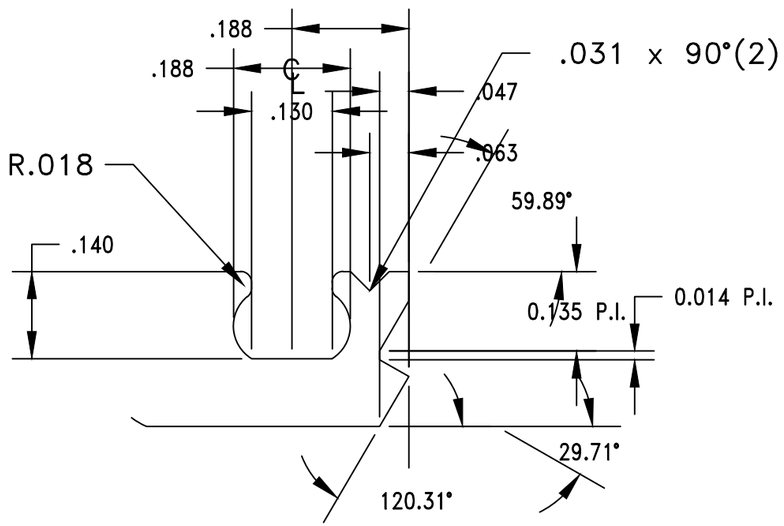
NFQ #

DIE NO. 7003

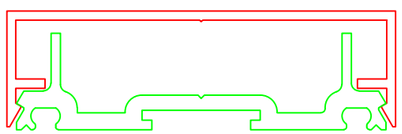
STANDARD COMMERCIAL TOLERANCES APPLY UNLESS NOTED.
TYP WALL THICKNESS TO BE AS NOTED.
BREAK SHARP CORNERS AT R.010 UNLESS OTHERWISE NOTED.

NOT TO SCALE





DETAIL "A" 4x SCALE



NOT TO SCALE

intertek Report #: Q9146-116-45
Date: 01/22/24
Verified by: Allison M Ford

ACTUAL SIZE

PHONE: FAX:

CUSTOMER

DESCRIPTION

MATERIAL
6005A-T5

EST. AREA
.381

EST. WT/FT
.457

EST. PERIMETER
8.164

BREAK SHARP CORNERS AT

UNSP.WALL THK.
AS NOTED

SCALE
4X

FEEDER
10X1-2HOLES

DIE TYPE
10X1-1/2-2HOLES

BACKER TYPE
10X2-3/4-2HOLES

BOLSTER
STD-PIE

CIRCLE SIZE
2.382

DRAWN BY:
FH

DATE
9/10/2014

DATE	REVISION

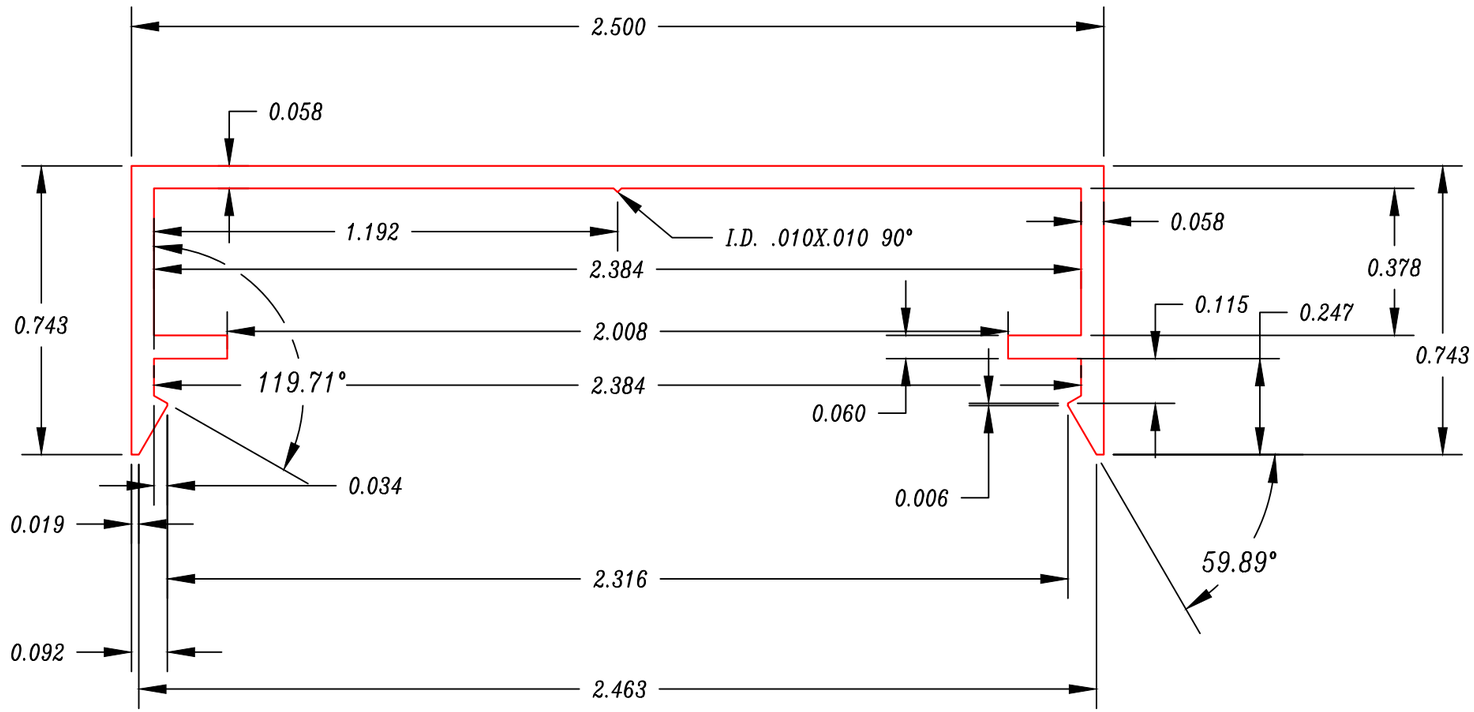
NFQ #

DIE NO. 7006

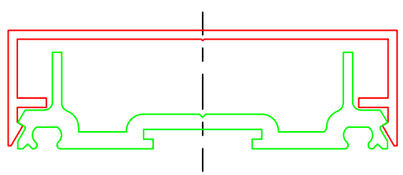
STANDARD COMMERCIAL TOLERANCES APPLY UNLESS NOTED.
TYP WALL THICKNESS TO BE AS NOTED.
BREAK SHARP CORNERS AT R.010 UNLESS OTHERWISE NOTED.

NOT TO SCALE

intertek
Report #: Q9146-116-45
Date: 01/22/24
Verified by: Allison M Ford



MATES WITH NF8110

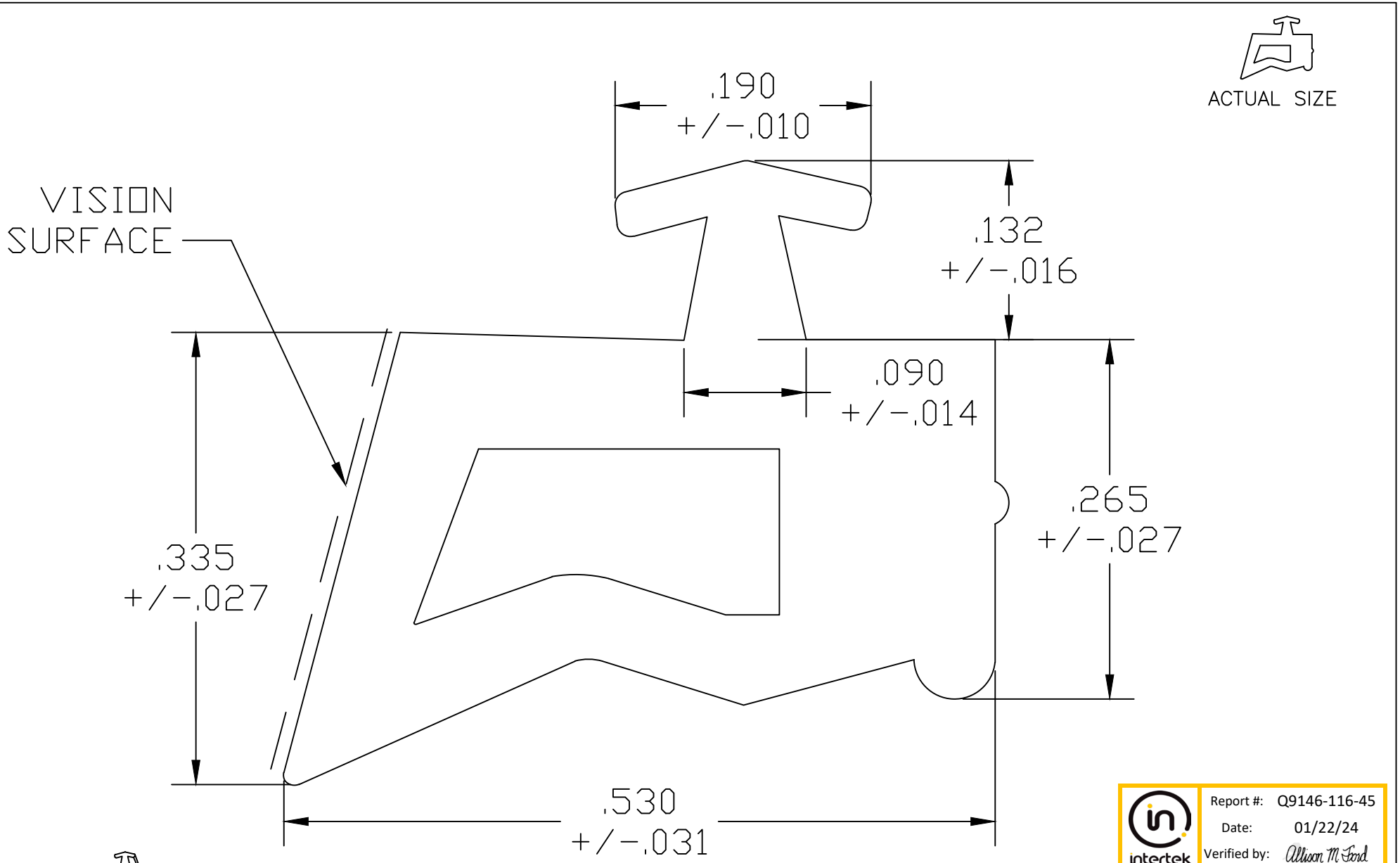


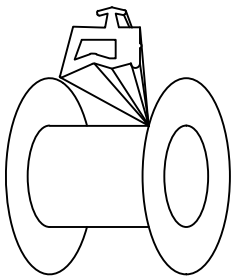
ACTUAL SIZE

PHONE:	FAX:
CUSTOMER	
DESCRIPTION	FACE CAP
MATERIAL	6063-T5
EST. AREA	0.248
EST. WT/FT	0.298
EST. PERIMETER	8.617
BREAK SHARP CORNERS AT	
UNSP.WALL THK.	
SCALE	2.5X
FEEDER	10X1 2-HOLES
DIE TYPE	10X1-1/2 2-HOLES
BACKER TYPE	10X2-3/4 2-HOLES
BOLSTER	STD-2
CIRCLE SIZE	2.608
DRAWN BY:	MEC
DATE	08/25/2014

DATE	REVISION
NFQ #	

DIE NO. 7007





REEL DART
UP

ALL TOLERANCES ARE
RMA CLASS II
UNLESS OTHERWISE SPECIFIED

REVISION:	DATE:

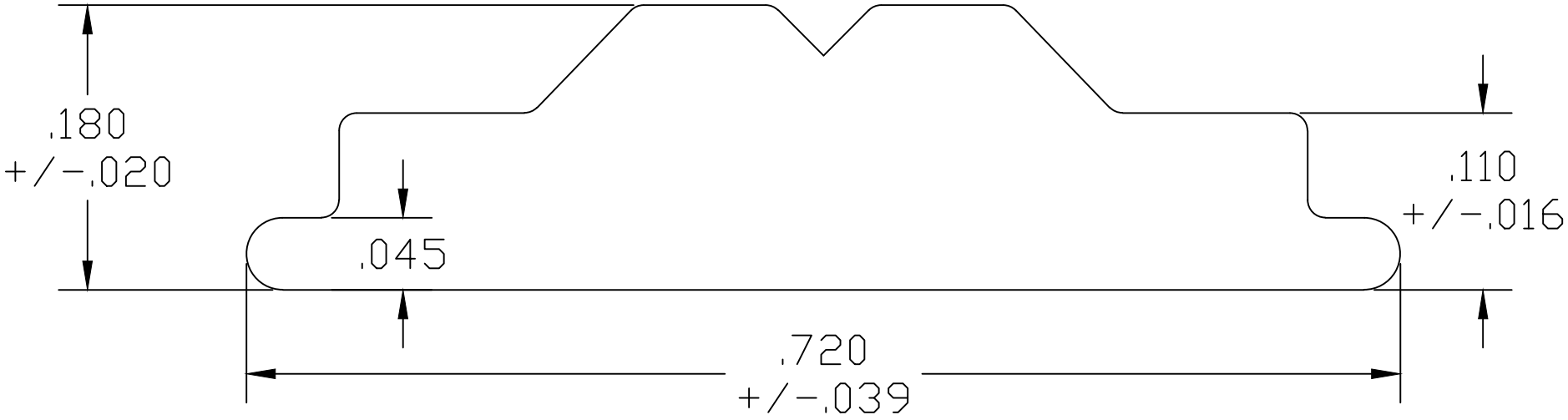
intertek
Report #: Q9146-116-45
Date: 01/22/24
Verified by: Allison M Ford

ORAZEN
EXTRUDED POLYMERS

999 South Chillicothe Road
Aurora, OH 44202
Phone: (800) 625-9637
www.orazen.com

OEP PART NUMBER: 1028-02-00		CUSTOMER PART NUMBER: 9700/XXRX	
COMPOUND: EPDM		DESCRIPTION: DENSE PRESET	
DUROMETER: 70 ± 5		OEP COMPOUND NUMBER: 270000	
SCALE: 10x1	DATE: 10/30/2013	DRAWN BY: SS	

ACTUAL SIZE



intertek
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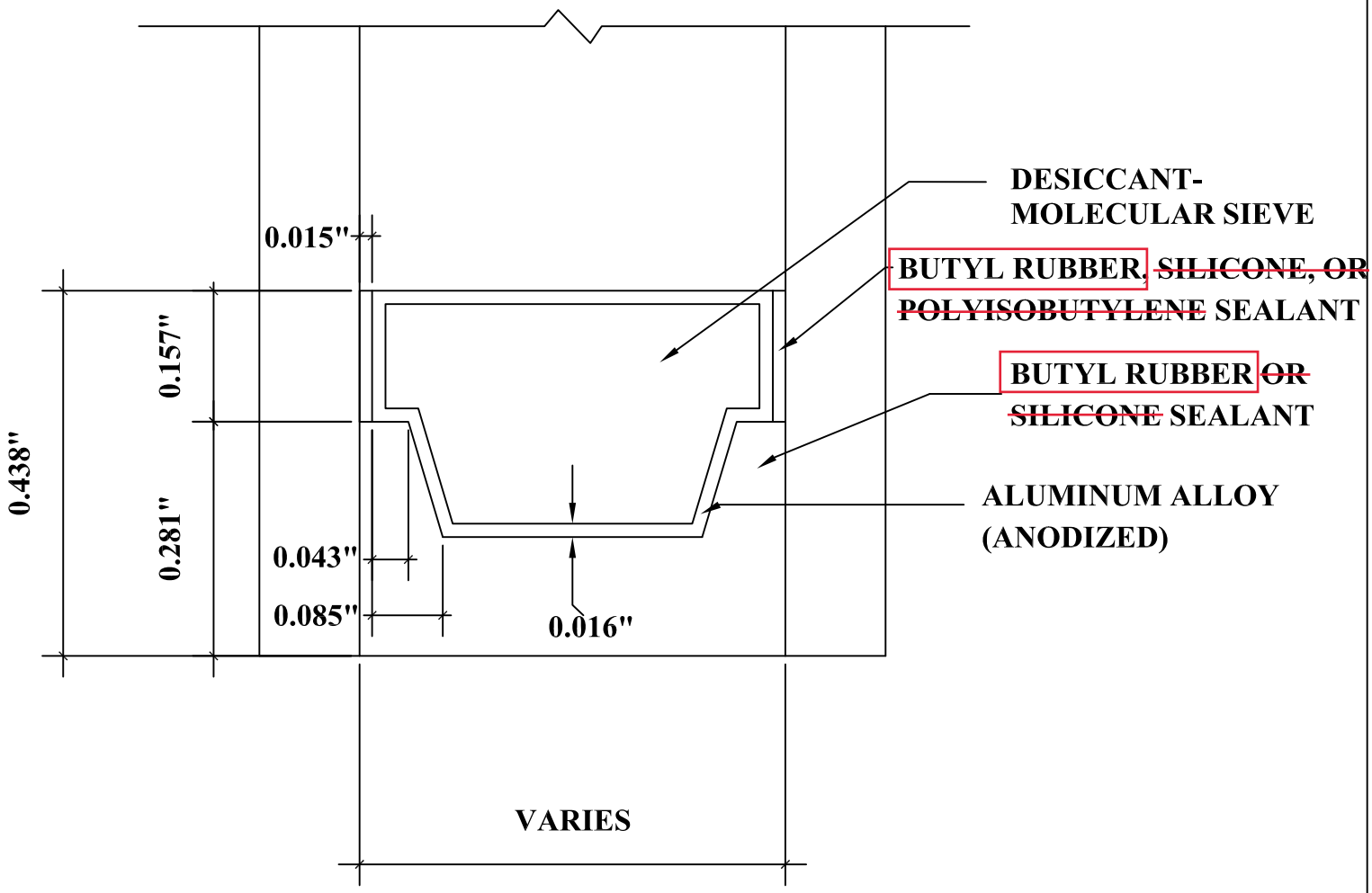
ALL TOLERANCES ARE
RMA CLASS II
UNLESS OTHERWISE SPECIFIED

REVISION:	DATE:

ORAZEN
EXTRUDED POLYMERS

999 South Chillicothe Road
Aurora, OH 44202
Phone: (800) 625-9637
www.orazen.com

OEP PART NUMBER: 1031-02-00	CUSTOMER PART NUMBER: 9701/XXRX
COMPOUND: EPDM	DESCRIPTION: PRESSURE BAR GSK
DUROMETER: 85 ± 5	OEP COMPOUND NUMBER: 285000
SCALE: 10x1	DATE: 10/7/2014
	DRAWN BY: SS



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

130 Derry Court
York, PA, 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

SECTION 8
REVISION LOG

REVISION #	DATE	PAGES	REVISION
.01R0	01/22/24	N/A	Original Report Issued to Atlas Architectural Metals, Inc..