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ALUMINTECHNO JLLC

THERMAL PERFORMANCE TEST REPORT

SCOPE OF WORK
W62 CASEMENT

REPORT NUMBER
I5155.03-116-46 R0

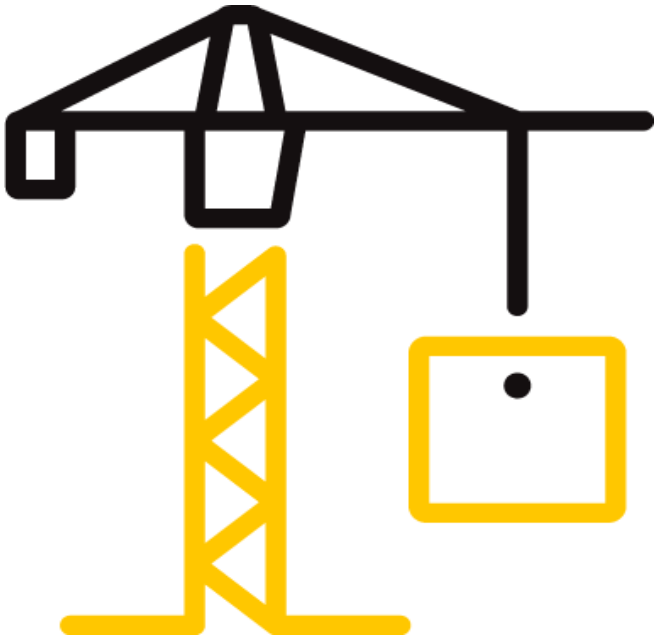
TEST DATE
06/07/18

ISSUE DATE
10/25/18

RECORD RETENTION END DATE
06/07/23

PAGES
20

DOCUMENT CONTROL NUMBER
ATI 00025(a) (01/15/18)
RTTDS-R-AMER-Test-2822(a)



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TEST REPORT FOR ALUMINTECHNO JLLC
Report No.: I5155.03-116-46 R0
Date: 10/25/18

REPORT ISSUED TO

ALUMINTECHNO JLLC
Selitskogo Str. 12-211
220075 FEZ "Minsk", Minsk Region, Minsk Area, Belarus

SECTION 1

SCOPE

SERIES/MODEL: W62 Casement
TYPE: Casement

Intertek Building & Construction (Intertek B&C) was contracted by AVRAMS INC. to evaluate the thermal performance per NFRC 102-2017. The purpose of this testing was to evaluate the U-Factor performance. This report is reissued in the name of ALUMINTECHNO JLLC through written authorization of AVRAMS INC., to whom the original report was rendered. The original AVRAMS INC. report number is I5155.01-116-46. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at Intertek B&C test facility in York, Pennsylvania. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

Standardized U-factor (Ust): 0.35 Btu/hr·ft^2·F (CTS Method)

For INTERTEK B&C:

COMPLETED BY	Joel T. Chronister	**REVIEWED BY**	Shon W. Einsig
TITLE	Technician	**TITLE**	Technician Team Leader, IIRC
SIGNATURE	Joel T. Chronister Digitally Signed by: Joel Chronister	**SIGNATURE**	Shon W. Einsig Digitally Signed by: Shon W. Einsig
DATE	10/25/18	**DATE**	10/25/18

JTC:pan

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SECTION 3
TEST SPECIMEN SUMMARY

SERIES/MODEL	W62 Casement
TYPE	Casement
OVERALL SIZE	47-1/4" x 59" (1200 mm x 1499 mm) (Non-Standard Size)
NFRC STANDARD SIZE	23.6" x 59.1" (600 mm wide x 1500 mm high)
TEST SAMPLE SUBMITTED BY	Avrams Inc. - Brooklyn, New York

SECTION 4
TEST METHOD

The specimens were evaluated in accordance with the following:

NFRC 102-2017, Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems

SECTION 5
MATERIAL SOURCE/INSTALLATION

The test specimen was provided by Avrams Inc. - Brooklyn, New York. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of five years from the test completion date.

Test Chamber Installation

The test sample was installed in a vertical orientation, the exterior of the specimen was exposed to the cold side.

SECTION 6
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Joel T. Chronister	Intertek B&C
Joel T. Chronister	Intertek B&C
Shon W. Einsig	Intertek B&C

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SECTION 7
TEST SAMPLE DESCRIPTION

Frame

MATERIAL	AT (0.65"): Aluminum with Thermal Breaks - All Members		
SIZE	47-1/4" x 59" (Non-Standard Size)		
DAYLIGHT OPENING	N/A	**GLAZING METHOD**	N/A
EXTERIOR COLOR	Black	**EXTERIOR FINISH**	Paint
INTERIOR COLOR	White	**INTERIOR FINISH**	Paint
CORNER JOINERY	Mitered / Keys & Stakes / Sealed		

Vent

MATERIAL	AT (0.65"): Aluminum with Thermal Breaks - All Members		
SIZE	43-3/4" x 55-1/2"		
DAYLIGHT OPENING	37-1/2" x 49-3/8"	**GLAZING METHOD**	Interior
EXTERIOR COLOR	Black	**EXTERIOR FINISH**	Paint
INTERIOR COLOR	White	**INTERIOR FINISH**	Paint
CORNER JOINERY	Mitered / Keys & Stakes / Sealed		

Glazing Information

LAYER 1	0.33"	(5/32" Clear / 0.030" PVB / 5/32" Pilkington Suncool 70/35 (e=0.021, #2) Laminated	
GAP 1	0.84"	TS-D: Thermix Thermo-Plastic Spacer	95% Argon*
LAYER 2	1/4"	Clear	
GAS FILL METHOD	Dual-Probe Method*		

**Stated per Client/Manufacturer*
N/A Non-Applicable

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SECTION 7 (CONTINUED)

TEST SAMPLE DESCRIPTION (CONTINUED)

Weatherstripping

DESCRIPTION	QUANTITY	LOCATION
EPDM preset gasket	1 row	Exterior glazing perimeter
EPDM wedge gasket	1 row	Interior glazing perimeter
Center gasket	1 row	Frame perimeter
Single-fin flexible hollow bulb gasket	1 row	Vent perimeter

Hardware

DESCRIPTION	QUANTITY	LOCATION
Multi-point lock assembly	1	Lock stile
Metal keeper	7	Three per lock jamb and sill, one per head
Metal hinges	3	Hinge jamb/stile
Aluminum watershed	1	Bottom rail

Drainage

DRAINAGE METHOD	SIZE	QUANTITY	LOCATION
Weepslot with cover	1.00" x 0.28"	2	Sill face

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SECTION 8
THERMAL TRANSMITTANCE (U-FACTOR): MEASURED TEST DATA

Heat Flows

1.	Total Measured Input into Metering Box (Qtotal)	571.10	Btu/hr
2.	Surround Panel Heat Flow (Qsp)	51.67	Btu/hr
3.	Surround Panel Thickness	4.00	inches
4.	Surround Panel Conductance	0.0472	Btu/hr·ft^2·F
5.	Metering Box Wall Heat Flow (Qmb)	9.14	Btu/hr
6.	EMF vs Heat Flow Equation (equivalent information)	0.0124*EMF + -0.206	
7.	Flanking Loss Heat Flow (Qfl)	13.59	Btu/hr
8.	Net Specimen Heat Loss (Qs)	496.71	Btu/hr

Areas

1.	Test Specimen Projected Area (As)	19.36	ft^2
2.	Test Specimen Interior Total (3-D) Surface Area (Ah)	21.09	ft^2
3.	Test Specimen Exterior Total (3-D) Surface Area (Ac)	19.80	ft^2
4.	Metering Box Opening Area (Amb)	36.11	ft^2
5.	Metering Box Baffle Area (Ab1)	33.94	ft^2
6.	Surround Panel Interior Exposed Area (Asp)	16.75	ft^2

Test Conditions

1.	Average Metering Room Air Temperature (th)	69.80	F
2.	Average Cold Side Air Temperature (tc)	-0.40	F
3.	Average Guard/Environmental Air Temperature	71.25	F
4.	Metering Room Average Relative Humidity	8.54	%
5.	Metering Room Maximum Relative Humidity	8.62	%
6.	Metering Room Minimum Relative Humidity	8.48	%
7.	Measured Cold Side Wind Velocity (Perpendicular Flow)	12.66	mph
8.	Measured Warm Side Wind Velocity (Parallel Flow)	N/A	mph
9.	Measured Static Pressure Difference Across Test Specimen	0.00" ± 0.04"	H_2O

Average Surface Temperatures

1.	Metering Room Surround Panel	66.13	F
2.	Cold Side Surround Panel	0.76	F

Results

1.	Thermal Transmittance of Test Specimen (Us)	0.37	Btu/hr·ft^2·F
2.	Standardized Thermal Transmittance of Test Specimen (Ust)	0.35	Btu/hr·ft^2·F

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SECTION 9
THERMAL TRANSMITTANCE (U-FACTOR): CALCULATED TEST DATA

CTS Method Results

1.	Warm Side Emittance of Glass (e1)	0.84	
2.	Cold Side Emittance of Glass	0.84	
3.	Warm Side Frame Emittance*	0.90	
4.	Cold Side Frame Emittance*	0.90	
5.	Warm Side Sash/Panel/Vent Emittance*	0.90	
6.	Cold Side Sash/Panel/Vent Emittance*	0.90	
7.	Warm Side Baffle Emittance (eb1)	0.92	
8.	Cold Side Baffle Emittance (eb2)	N/A	
9.	Equivalent Warm Side Surface Temperature (t1)	51.62	F
10.	Equivalent Cold Side Surface Temperature (t2)	4.61	F
11.	Warm Side Baffle Surface Temperature	68.10	F
12.	Cold Side Baffle Surface Temperature	N/A	F
13.	Measured Warm Side Surface Conductance (hh)	1.41	$Btu/hr \cdot ft^2 \cdot F$
14.	Measured Cold Side Surface Conductance (hc)	5.12	$Btu/hr \cdot ft^2 \cdot F$
15.	Test Specimen Thermal Conductance (Cs)	0.55	$Btu/hr \cdot ft^2 \cdot F$
16.	Convection Coefficient (Kc)	0.35	$Btu/(hr \cdot ft^2 \cdot F^{1.25})$
17.	Radiative Test Specimen Heat Flow (Qr1)	240.01	Btu/hr
18.	Conductive Test Specimen Heat Flow (Qc1)	256.70	Btu/hr
19.	Radiative Heat Flux of Test Specimen (qr1)	12.40	$Btu/hr \cdot ft^2 \cdot F$
20.	Convective Heat Flux of Test Specimen (qc1)	13.26	$Btu/hr \cdot ft^2 \cdot F$
21.	Standardized Warm Side Surface Conductance (hsth)	1.23	$Btu/hr \cdot ft^2 \cdot F$
22.	Standardized Cold Side Surface Conductance (hstc)	5.28	$Btu/hr \cdot ft^2 \cdot F$
23.	Standardized Thermal Transmittance (Ust)	0.35	$Btu/hr \cdot ft^2 \cdot F$

**Stated per NFRC 101*

SECTION 10
TEST DURATION

1. The environmental systems were started at 13:21 hours, 06/06/18.
2. The test parameters were considered stable for two consecutive four hour test periods from 21:56 hours, 06/06/18 to 05:56 hours, 06/07/18.
3. The thermal performance test results were derived from 01:56 hours, 06/07/18 to 05:56 hours, 06/07/18.

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SECTION 11
GLAZING DEFLECTION

	VENT EXT. / INT
EDGE GAP WIDTH	0.84"
ESTIMATED CENTER GAP WIDTH upon receipt of specimen in laboratory (after stabilization)	0.97"
CENTER GAP WIDTH at laboratory ambient conditions on day of testing	0.97"
CENTER GAP WIDTH at test conditions	0.81"

Glass collapse determined using a digital glass and air space meter

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.

"This test method does not include procedures to determine the heat flow due to either air movement through the specimen or solar radiation effects. As a consequence, the thermal transmittance results obtained do not reflect performances which are expected from field installations due to not accounting for solar radiation, air leakage effects, and the thermal bridge effects that have the potential to occur due to the specific design and construction of the fenestration system opening. The latter can only be determined by in-situ measurements. Therefore, it is important to recognize that the thermal transmittance results obtained from this test method are for ideal laboratory conditions and should only be used for fenestration product comparisons and as input to thermal performance analyses which also include solar, air leakage and thermal bridge effects."

Required annual calibrations for the Intertek B&C, 'thermal test chamber' (ICN 000001) in York, Pennsylvania were last conducted in May 2018 in accordance with Intertek B&C calibration procedure. A CTS Calibration verification was performed March 2018. A Metering Box Wall Transducer and Surround Panel Flanking Loss Characterization was performed April 2018.

The reported Standardized Thermal Transmittance (Ust) was determined using CTS Method, per Section 9.2(A) of NFRC 102.

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SECTION 12
CTS CALIBRATION DATA

1.	CTS Test Date	05/05/17	
2.	CTS Size	21.53	ft^2
3.	CTS Glass/Core Conductance	0.42	$Btu/hr \cdot ft^2 \cdot F$
4.	Warm Side Air Temperature	69.80	F
5.	Cold Side Air Temperature	-0.40	F
6.	Warm Side Average Surface Temperature	54.32	F
7.	Cold Side Average Surface Temperature	3.79	F
8.	Convection Coefficient (Kc)	0.35	$Btu/(hr \cdot ft^2 \cdot F^{1.25})$
9.	Measured Cold Side Surface Conductance (hc)	5.12	$Btu/hr \cdot ft^2 \cdot F$
10.	Measured Thermal Transmittance	0.31	$Btu/hr \cdot ft^2 \cdot F$

ANSI/NCSL Z540-2-1997 type B uncertainty for this test was 1.90%.

"Ratings included in this report are for submittal to an NFRC licensed IA for certification purposes and are not meant to be used for labeling purposes. Only those values identified on a valid Certification Authorization Report (CAR) are to be used for labeling purposes."

The direction of heat transfer was from the interior (warm side) to the exterior (cold side) of the specimen. The ratings were rounded in accordance to NFRC 601, NFRC Unit and Measurement Policy. The data acquisition frequency is 5 minutes.

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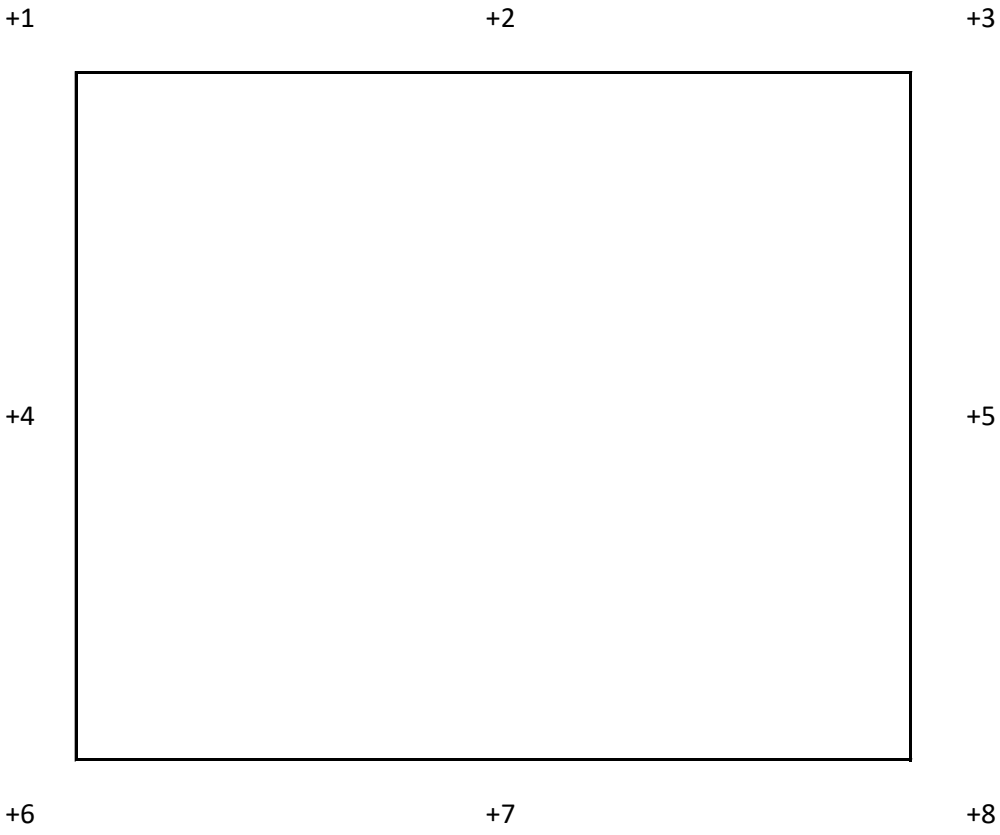
SECTION 13
SURROUND PANEL WIRING DIAGRAM



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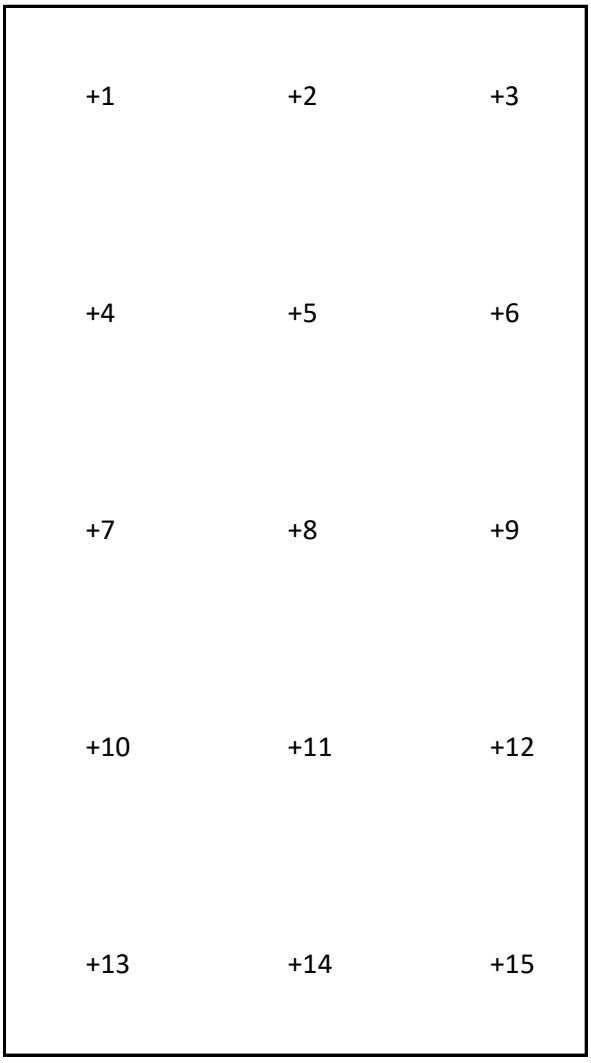
SECTION 14
BAFFLE WIRING DIAGRAM



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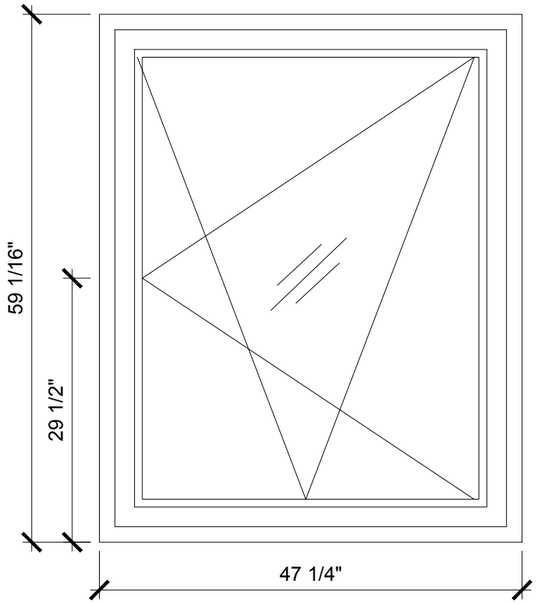
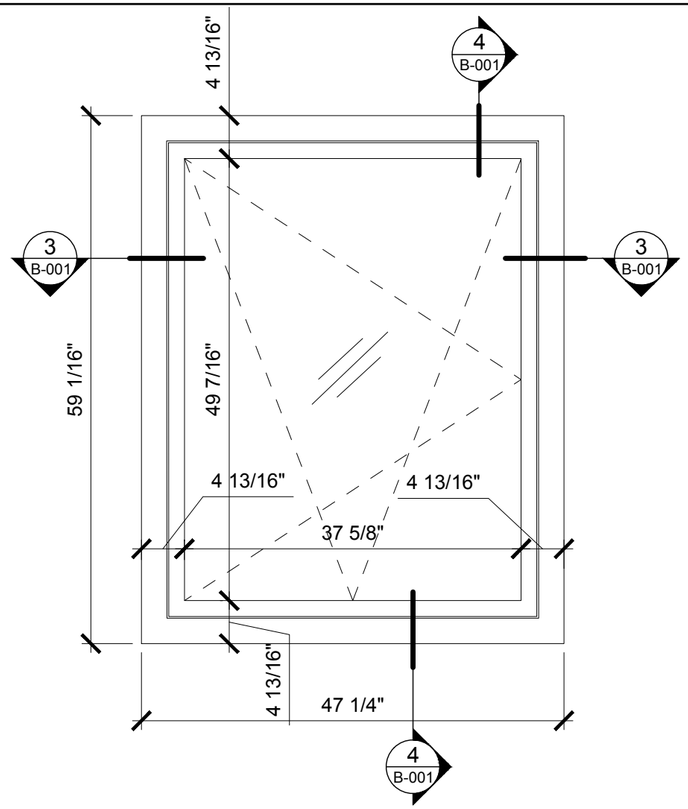
SECTION 15
DRAWINGS

The test specimen drawings which follow have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.





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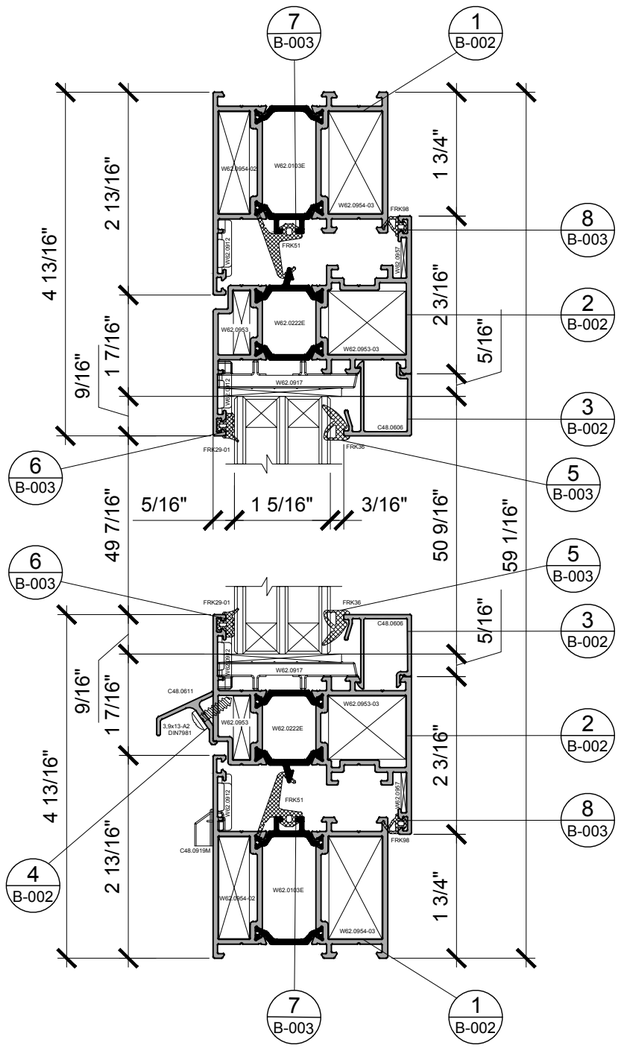
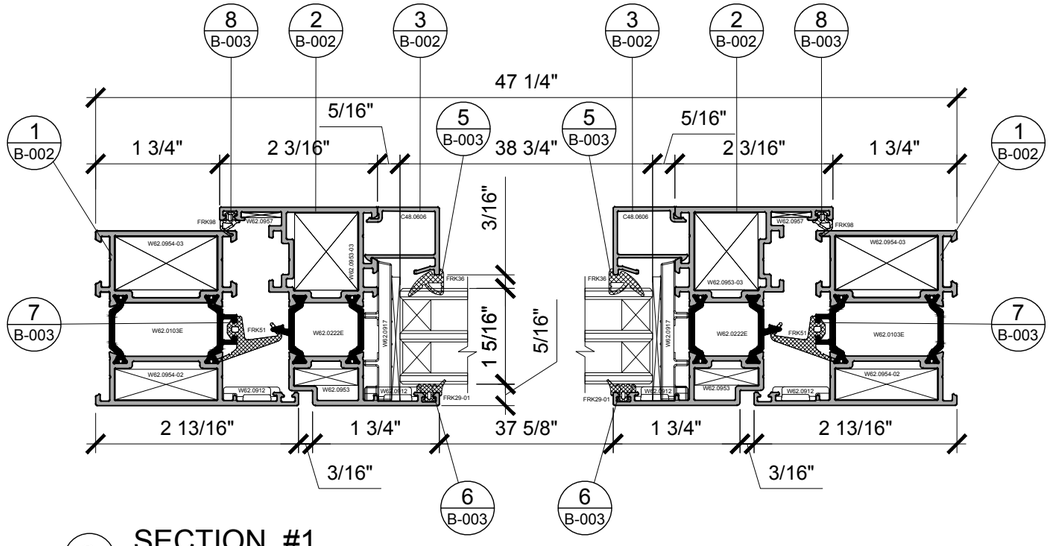
Report #: I5155-116-46
Date: 06/07/2018
Verified by: Ryan P. Moser



1 WINDOW ELEVATION INTERIOR VIEW
SCALE: 1/2" = 1'-0"

2 WINDOW ELEVATION EXTERIOR VIEW
SCALE: 1/2" = 1'-0"



3 SECTION #1
SCALE: 6" = 1'-0"

4 SECTION #2
SCALE: 6" = 1'-0"

CLIENT:
AVRAMS INC
Brooklyn, NY 11235
tel: 646.789.1827
e-mail: info@awdi.nyc
www.awdi.nyc

PROJECT NAME:
47 1/4" X 59 1/16"
THERMAL TEST

PREPARED BY:
CAD SHOPS

PROJECT ADDRESS:
130 DERRY CT YORK, PA 17406

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE ____/____/_____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.

DRAWING TITLE:
ASSEMBLY DRAWING AND SECTIONS

REVIEWED BY PROJECT MANAGER
BY:_____ DATE:_____
NOTE:_____

DIMENSIONS FIELD VERIFIED
BY:_____ DATE:_____
NOTE:_____

DATE: 06.07.2018

DRAWN BY: EG

CHECKED BY: VP; AA

DRAWING No: **B-001.00** SIZE: B

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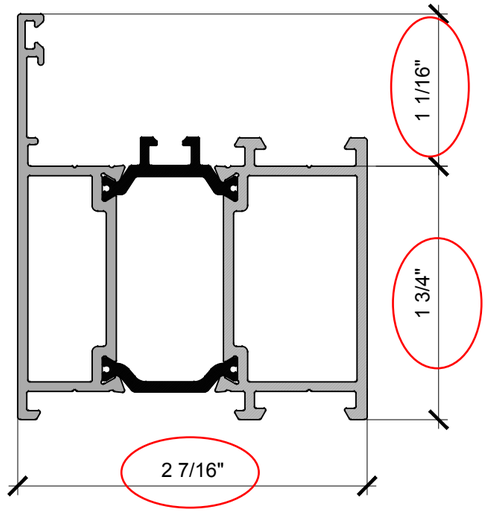
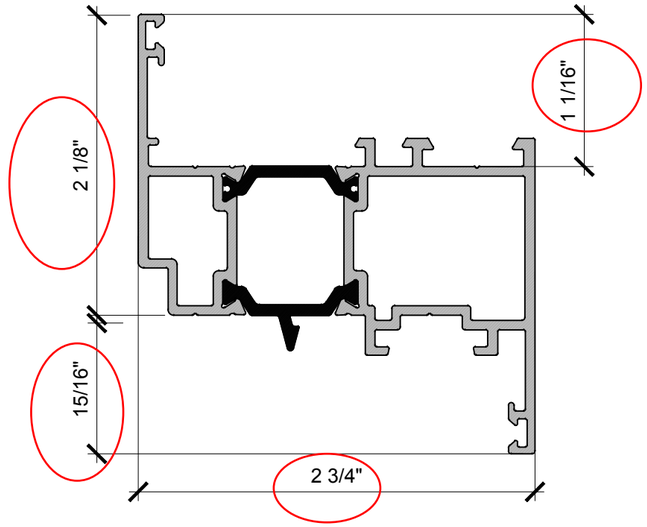
Report #: I5155-116-46
Date: 06/07/2018
Verified by: Ryan P. Moser



Material: Extruded Aluminum with Thermal Break

HEAD, SILL, SIDE JAMBS MOLDING EXTRUSION W62.0103E

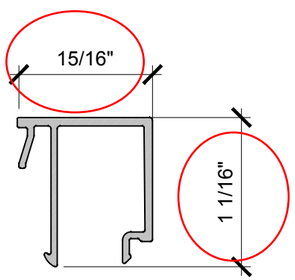
1 SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum with Thermal Break

SASH MOLDING EXTRUSION W62.0222E

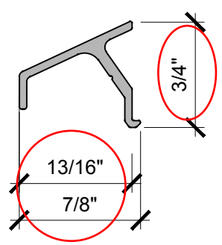
2 SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0606

3 SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum

WATER DEFLECTOR EXTRUSION C48.0611

4 SCALE: 1'-0" = 1'-0"

AVRAMS WINDOWS A W & D I DOORS INDUSTRIES

CLIENT:
AVRAMS INC
Brooklyn, NY 11235
tel: 646.789.1827
e-mail: info@awdi.nyc
www.awdi.nyc

PROJECT NAME:
47 1/4" X 59 1/16"
THERMAL TEST

PREPARED BY:
CAD SHOPS

PROJECT ADDRESS:
130 DERRY CT YORK, PA 17406

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE____/____/_____

SPECIAL NOTES:

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DRAWING TITLE:
INDIVIDUAL FRAME AND SASH COMPONENTS SECTIONS

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

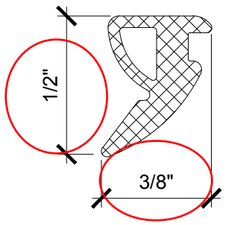
DATE: 06.07.2018

DRAWN BY: EG

CHECKED BY: VP; AA

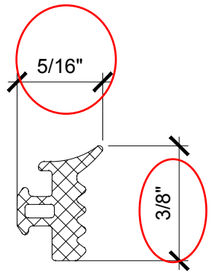
DRAWING No: **SIZE: B**

B-002.00



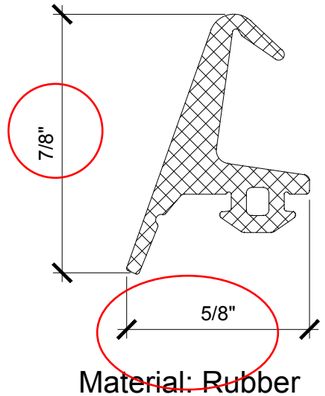
Material: Rubber

5 INTERIOR GASKET FRK36
SCALE: 2'-0" = 1'-0"



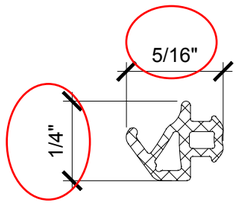
Material: Rubber

6 EXTERIOR GASKET FRK29-01
SCALE: 2'-0" = 1'-0"



Material: Rubber

7 FRAME GASKET FRK51
SCALE: 2'-0" = 1'-0"



Material: Rubber

8 INTERIOR GASKET FRK98
SCALE: 2'-0" = 1'-0"

CLIENT:
AVRAMS INC
Brooklyn, NY 11235
tel: 646.789.1827
e-mail: info@awdi.nyc
www.awdi.nyc

PROJECT NAME:
47 1/4" X 59 1/16"
THERMAL TEST

PREPARED BY:
CAD SHOPS

PROJECT ADDRESS:
130 DERRY CT YORK, PA 17406

DATE	REVISION	#

APPROVED
CLIENT'S SIGNATURE _____
DATE_____ /_____ /_____

SPECIAL NOTES:
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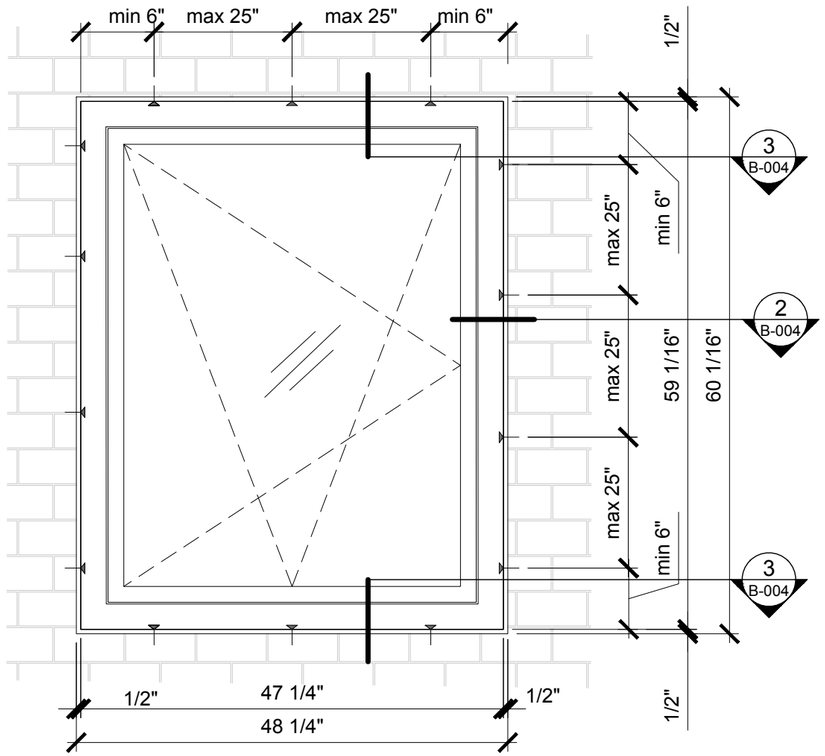
DRAWING TITLE:
INDIVIDUAL FRAME AND SASH COMPONENTS SECTIONS

REVIEWED BY PROJECT MANAGER
BY:_____ DATE:_____
NOTE:_____

DIMENSIONS FIELD VERIFIED
BY:_____ DATE:_____
NOTE:_____

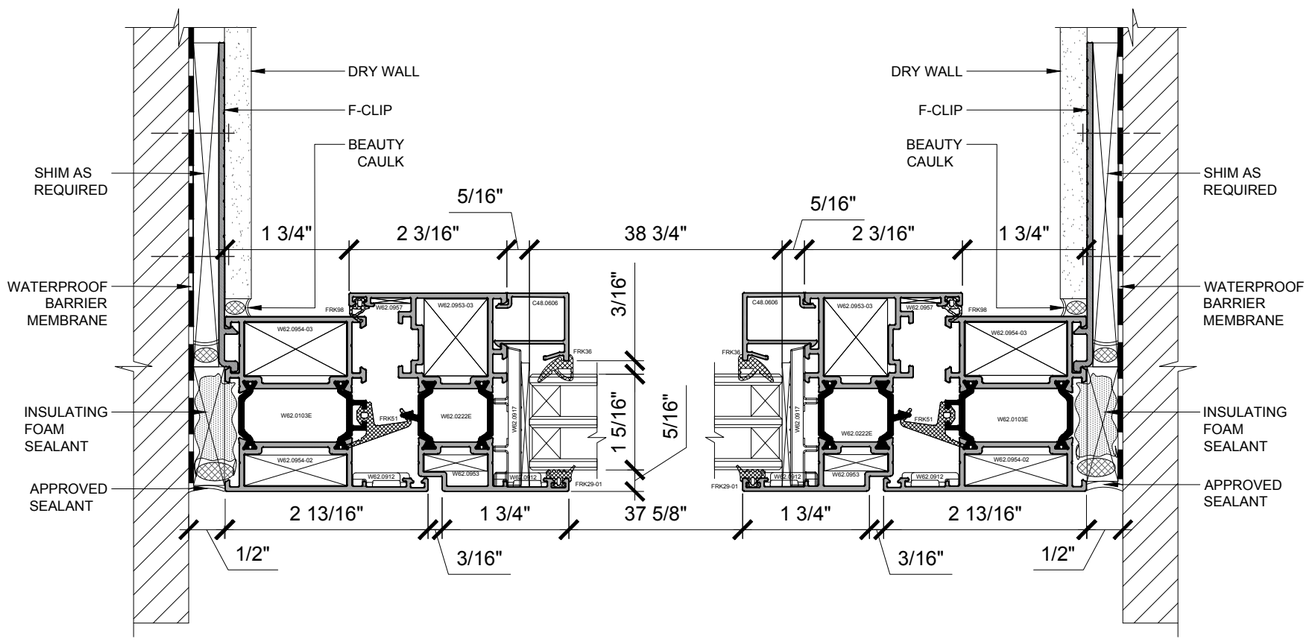
DATE: 06.07.2018
DRAWN BY: EG
CHECKED BY: VP; AA
DRAWING No: SIZE: B
B-003.00



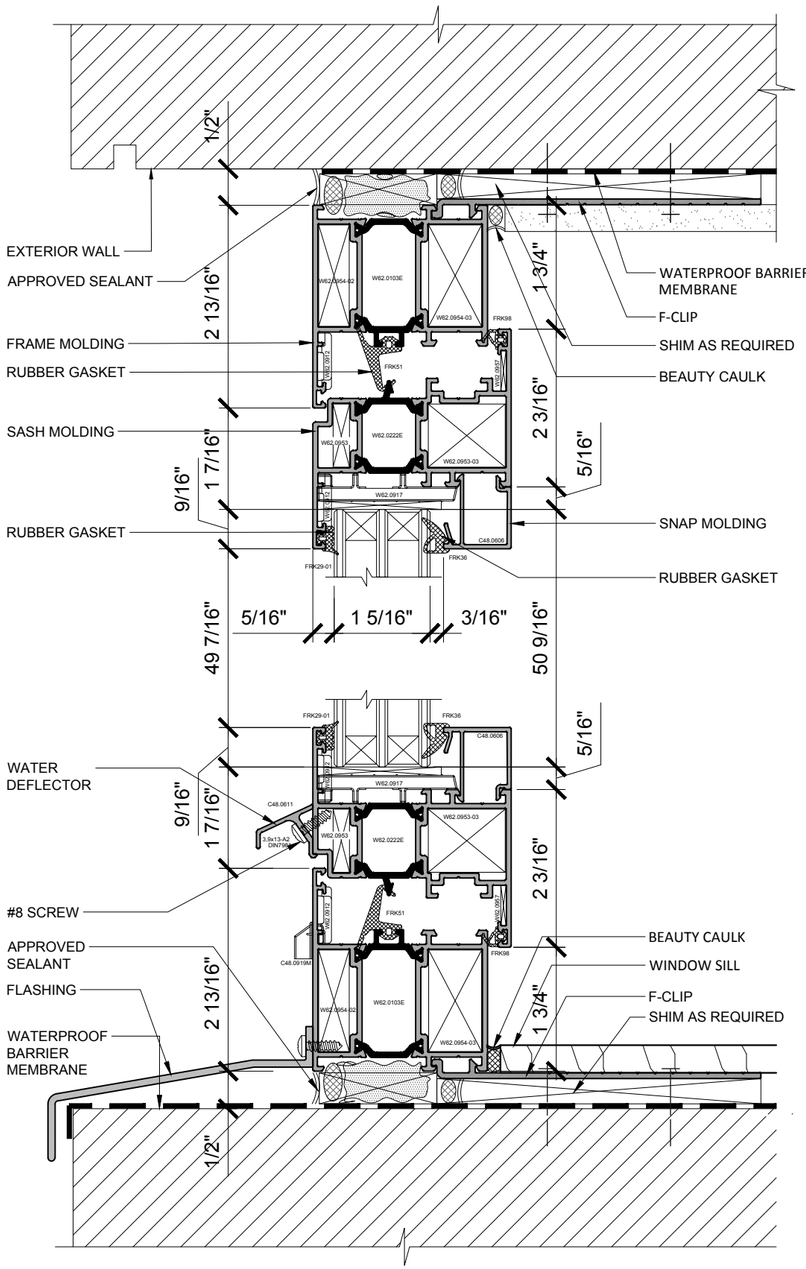
1 SCHEME OF F-CLIPS LOCATION
SCALE: 3/4" = 1'-0"

SYMBOL LEGEND:

- ANCHORING POINT



2 SECTION #1
SCALE: 6" = 1'-0"



3 SECTION #2
SCALE: 6" = 1'-0"

intertek Total Quality. Assured.

Report #: I5155-116-46
Date: 06/07/2018
Verified by: Ryan P. Moser

CLIENT:

AVRAMS WINDOWS & DOORS INDUSTRIES

AVRAMS INC
Brooklyn, NY 11235
tel: 646.789.1827
e-mail: info@awdi.nyc
www.awdi.nyc

PROJECT NAME:

47 1/4" X 59 1/16"
THERMAL TEST

PREPARED BY:

CAD SHOPS

PROJECT ADDRESS:

130 DERRY CT YORK, PA 17406

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE ____/____/_____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.

DRAWING TITLE:

INSTALLATION DETAILS

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

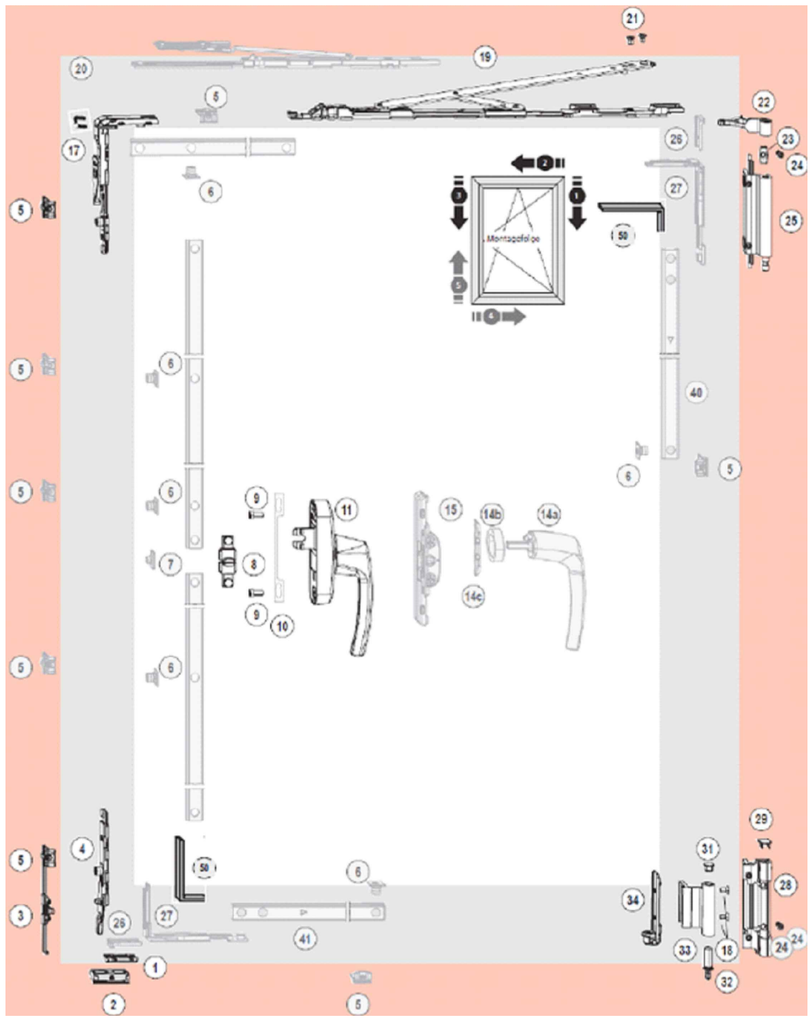
DATE: 06.07.2018

DRAWN BY: EG

CHECKED BY: VP; AA

DRAWING No: **SIZE: B**

B-004.00



1 HARDWARE DIAGRAM
SCALE: 3/8" = 1'-0"

①②③④⑤⑥⑰ locking elements kit - art. 728804

⑤ strike plate - art. 728918

⑥ locking element, snap in - art. 334671

⑧ T-receptor - art. 334574

⑨⑩ handle bearing - art. 331937

⑪ handle ROTO LINE - art. 377400

⑲ sash stay 600 - art. 728786

㉑㉒㉕㉘㉛㉜㉝㉞ hinge group DK - art. 728700

㉖㉗⑤⑥ corner switch MV art. 728842 - 2 pcs

㊵ rod profile - art. AYPC.W62.0607

㊿ groove corner VTC - art. AYPC.W62.0968 - 2 pcs

intertek Total Quality. Assured.
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DATE _____ /_____ /_____

SPECIAL NOTES:
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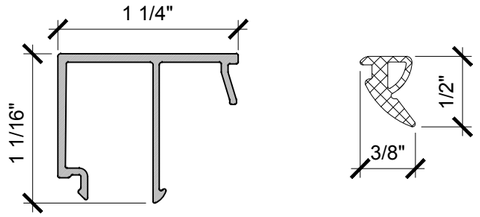
DRAWING TITLE:
HARDWARE DETAILS

REVIEWED BY PROJECT MANAGER
BY:_____ DATE:_____
NOTE:_____

DIMENSIONS FIELD VERIFIED
BY:_____ DATE:_____
NOTE:_____

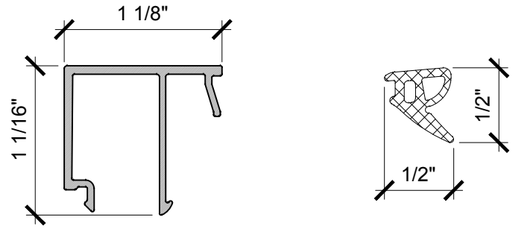
DATE: 06.07.2018
DRAWN BY: EG
CHECKED BY: VP; AA
DRAWING No: B-005.00
SIZE: B



Material: Extruded Aluminum, Rubber

GLAZING BEAD EXTRUSION C48.0608 AND INTERIOR GASKET FRK36 FOR 26 MM INFILL

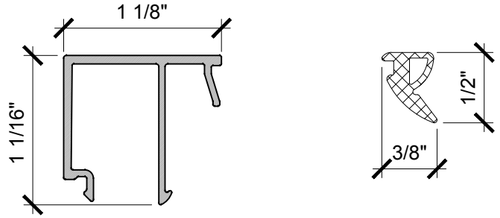
1 SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum, Rubber

GLAZING BEAD EXTRUSION C48.0607 AND INTERIOR GASKET FRK67 FOR 28 MM INFILL

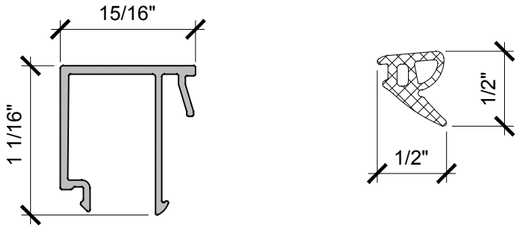
2 SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum, Rubber

GLAZING BEAD EXTRUSION C48.0607 AND INTERIOR GASKET FRK36 FOR 30 - 31 MM INFILL

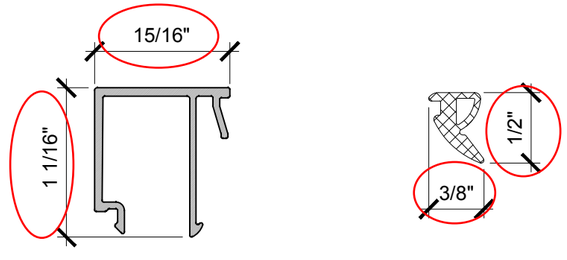
3 SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum, Rubber

GLAZING BEAD EXTRUSION C48.0606 AND INTERIOR GASKET FRK67 FOR 32 - 33 MM INFILL

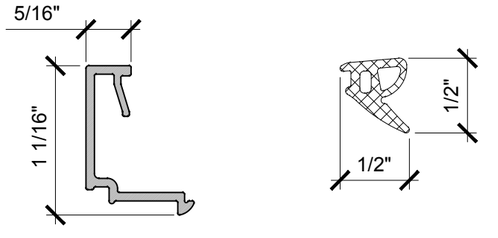
4 SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum, Rubber

GLAZING BEAD EXTRUSION C48.0606 AND INTERIOR GASKET FRK36 FOR 34 - 35 MM INFILL

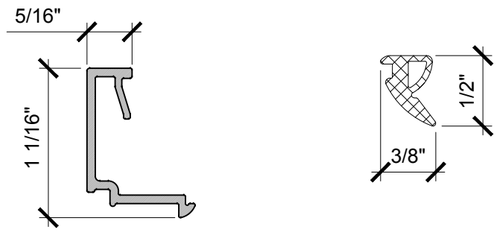
5 SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum, Rubber

GLAZING BEAD EXTRUSION C48.0602 AND INTERIOR GASKET FRK67 FOR 48 MM INFILL

6 SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum, Rubber

GLAZING BEAD EXTRUSION C48.0602 AND INTERIOR GASKET FRK36 FOR 50 MM INFILL

7 SCALE: 1'-0" = 1'-0"

intertek Total Quality. Assured.

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Date: 06/07/2018

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CLIENT'S SIGNATURE _____

DATE_____/_____/_____

SPECIAL NOTES:

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DRAWING TITLE:

VARIOUS GLAZING BEADS

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

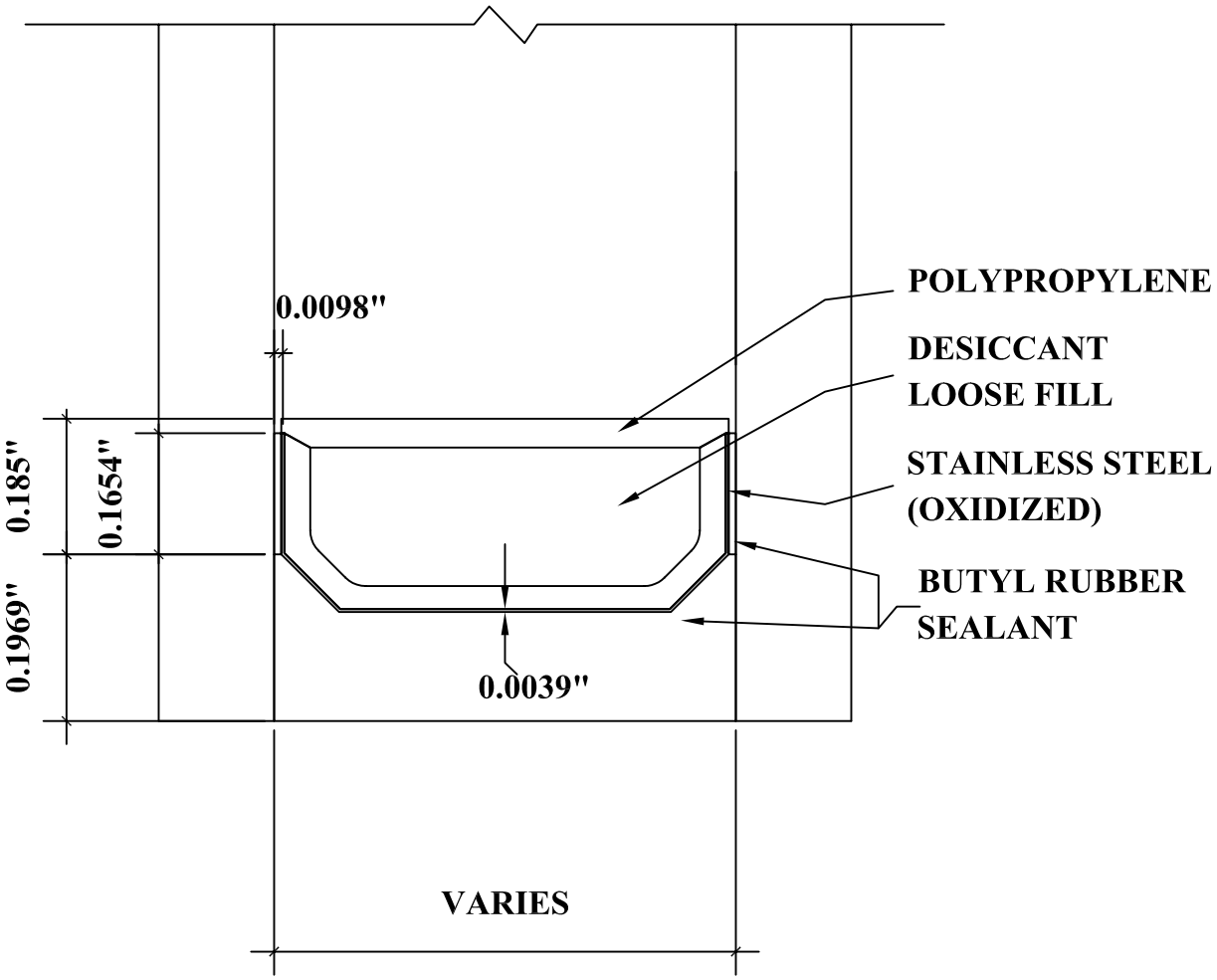
DATE: 06.07.2018

DRAWN BY: EG

CHECKED BY: VP; AA

DRAWING No: **SIZE: B**

B-006.00



DETAIL FOR THERMAL MODELING OF
ENSINGER THERMIX TX.N SPACER (TS-D)

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
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SECTION 16
REVISION LOG

REVISION #	DATE	PAGES	REVISION
.03 R0	10/25/18	N/A	Report Reissue