

**NFRC U-FACTOR, SHGC, VT, &  
CONDENSATION RESISTANCE  
COMPUTER SIMULATION REPORT**

**Rendered to:  
ALUMINTECHNO, JLLC**

**SERIES/MODEL:  
W62 Tilt & Turn**

**Report Number: I5156.03-116-45  
Report Date: 10/25/18**



## NFRC U-FACTOR, SHGC, VT, & CONDENSATION RESISTANCE COMPUTER SIMULATION REPORT

Rendered to:  
ALUMINTECHNO, JLLC  
12 Selitskogo Street  
Minsk, Belarus 220075

Report Number: I5156.03-116-45  
Simulation Date: 06/11/18  
Report Date: 10/25/18

### Project Summary:

Architectural Testing, Inc., an Intertek Company (Intertek-ATI) was contracted to perform U-Factor, Solar Heat Gain Coefficient, Visible Transmittance, and Condensation Resistance\* computer simulations in accordance with the National Fenestration Rating Council (NFRC). The products were evaluated in full compliance with NFRC requirements to the standards listed

*\*NFRC's Condensation Resistance rating is NOT equivalent to a Condensation Resistance Factor (CRF) determined in accordance with AAMA 1503.*

### Standards:

*ANSI/NFRC 100-2017: Procedure for Determining Fenestration Product U-Factors*

*ANSI/NFRC 200-2017: Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence*

*NFRC 500-2017: Procedure for Determining Fenestration Product Condensation Resistance Values*

### Software:

**Frame and Edge Modeling:** THERM 7.4.4  
**Center-of-Glass Modeling:** WINDOW 7.4.14  
**Total Product Calculations:** WINDOW 7.4.14  
**Spectral Data Library:** IGDB 63.0

### Simulations Specimen Description:

**Series/Model:** W62 Tilt & Turn  
**Type:** Dual Action, Tilt Turn  
**Frame Material:** AT Aluminum w/ Thermal Breaks - All Members  
**Sash Material:** AT Aluminum w/ Thermal Breaks - All Members  
**Standard Size:** 1200mm x 1500mm



**Modeling Assumptions/Technical Interpretations:**

- 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 100-2017, Section 4.2.1.L. The painted finish was simulated since it is the worst case (highest emissivity). The test sample was painted aluminum.

**Specialty Products Table:**

The specialty products method allow the manufacturer to determine the overall product SHGC and VT for any glazing option. The center of glass SHGC and/or VT must be determined using WINDOW 7.4.14. The method gives overall product SHGC and VT indexed on center of glass properties. All values used in the calculations are truncated to six decimal place precision.

	No Dividers	Dividers < 1	Dividers > 1
SHGC0	0.014016	0.016575	0.018976
SHGC1	0.677403	0.602256	0.531788
VT0	0.000000	0.000000	0.000000
VT1	0.663387	0.585680	0.512812

$$SHGC = SHGC0 + SHGCc (SHGC1 - SHGC0)$$

$$VT = VT0 + VTc (VT1 - VT0)$$

**Validation Matrix:**

The following products are part of a validation matrix. Only one is required for validation testing.

<i>Product Line</i>	<i>Report Number</i>
W62 Casement	I5154.02-116-45
W62 Tilt & Turn	I5156.03-116-45

**Spacer Option Description**

<i>Spacer Type</i>	<i>Sealant</i>		<i>Code</i>
	<i>Primary</i>	<i>Secondary</i>	
Ensinger Thermix TX.N Spacer	Butyl Rubber	Butyl Rubber	TS-D

**Grid Option Description**

<i>Grid Size</i>	<i>Grid Type</i>	<i>Grid Pattern</i>
None	-	-

**Reinforcement Option Description**

<i>Location</i>	<i>Material</i>
None	-

**Gas Filling Technique Description**

<i>Fill Type</i>	<i>Method</i>
97% Argon	Evacuated Chamber

**Edge-of-Glass Construction**

<i>Interior Condition</i>	EPDM gasket between aluminum glazing bead and glass
<i>Exterior Condition</i>	EPDM gasket between aluminum sash and glass

**Weatherstripping**

<i>Type</i>	<i>Quantity</i>	<i>Location</i>
EPDM Gasket	1 Row	Sash Perimeter
EPDM Sweep Gasket	1 Row	Frame Perimeter

**Frame/Sash Materials Finish**

<i>Interior</i>	Painted Aluminum
<i>Exterior</i>	Painted Aluminum

### NFRC 100/200/500 Summary Sheet W62 Tilt & Turn

ID	Pane Thickness 1	Gap Width 1	Pane Thickness 2	Gap Width 2	Pane Thickness 3	Gap Width 3	Pane Thickness 4	Gap Fill	Low-e (Surface#)	Tint	Spacer	Grid Type
	U-Factor			Solar Heat Gain Coefficient (SHGC) <small>Grids (None / &lt;1 / &gt;=1)</small>				Visible Transmittance (VT) <small>Grids (None / &lt;1 / &gt;=1)</small>			Condensation Resistance	
1	SB60 / AIR / CLR (6MM/6MM) - 25MM IG											
	0.223	0.500	0.223					AIR	0.035(#2)	CL	TS-D	N
	U-Factor 0.39			SHGC (N) 0.27				VT (N) 0.47			CR 54	
2	SB60 / ARG90 / CLR (6MM/6MM) - 25MM IG											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.27				VT (N) 0.47			CR 54	
3	SB67 / ARG90 / CLR (6MM/6MM) - 25MM IG											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.20				VT (N) 0.36			CR 54	
4	SB70 / ARG90 / CLR (6MM/6MM) - 25MM IG											
	0.223	0.500	0.223					ARG90	0.018(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.19				VT (N) 0.42			CR 54	
5	SN 70/35 / ARG97 / CLR (6MM/6MM) - 28MM IG											
	0.230	0.625	0.221					ARG97	0.025(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.23				VT (N) 0.46			CR 54	
6	SN 70/35 HT / ARG97 / CLR (6MM/6MM) - 28MM IG											
	0.230	0.625	0.221					ARG97	0.022(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.24				VT (N) 0.46			CR 54	
7	SN 70/41 / AIR / CLR (6MM/6MM) - 28MM IG											
	0.230	0.625	0.221					AIR	0.037(#2)	CL	TS-D	N
	U-Factor 0.39			SHGC (N) 0.27				VT (N) 0.46			CR 54	
8	SN 70/41 / ARG97 / CLR (6MM/6MM) - 28MM IG											
	0.230	0.625	0.221					ARG97	0.037(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.27				VT (N) 0.46			CR 54	
9	SNX 60 HT / ARG97 / CLR (6MM/6MM) - 28MM IG											
	0.230	0.625	0.221					ARG97	0.026(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.19				VT (N) 0.40			CR 54	
10	RLE 70/36 / ARG97 / CLR (6MM/6MM) - 28MM IG											
	0.221	0.625	0.230					ARG97	0.036(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.26				VT (N) 0.45			CR 54	

### NFRC 100/200/500 Summary Sheet W62 Tilt & Turn

ID	Pane Thickness 1	Gap Width 1	Pane Thickness 2	Gap Width 2	Pane Thickness 3	Gap Width 3	Pane Thickness 4	Gap Fill	Low-e (Surface#)	Tint	Spacer	Grid Type
	U-Factor			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)			Condensation Resistance	
11	iPlus ENERGY N / AIR / CLR (6MM/6MM) - 28MM IG											
	0.230	0.625	0.230					AIR	0.033(#2)	CL	TS-D	N
	U-Factor 0.39			SHGC (N) 0.26				VT (N) 0.48			CR 54	
12	iPlus ENERGY N / ARG97 / CLR (6MM/6MM) - 28MM IG											
	0.230	0.625	0.230					ARG97	0.033(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.26				VT (N) 0.48			CR 54	
13	SUNCOOL 70/35 PRO T / ARG97 / CLR (6MM/6MM) - 30MM IG											
	0.230	0.750	0.230					ARG97	0.021(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.25				VT (N) 0.47			CR 53	
14	iPlus ADVANCED 1.0 / ARG97 / TOP N+T (6MM/8MM) - 30MM IG											
	0.230	0.625	0.309					ARG97	0.022(#2) / 0.04(#3)	CL	TS-D	N
	U-Factor 0.35			SHGC (N) 0.32				VT (N) 0.48			CR 53	
15	iPlus ENERGY N / AIR / STRATOBEL 44.1 (6MM/6MM) - 31MM IG											
	0.230	0.625	0.318					AIR	0.033(#2)	CL	TS-D	N
	U-Factor 0.39			SHGC (N) 0.26				VT (N) 0.47			CR 54	
16	iPlus ENERGY N / ARG97 / STRATOBEL 44.1 (6MM/6MM) - 31MM IG											
	0.230	0.625	0.318					ARG97	0.033(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.26				VT (N) 0.47			CR 54	
17	TOP N+T / ARG97 / TOP N+T (10MM/6MM) - 32MM IG											
	0.388	0.625	0.230					ARG97	0.04(#2) / 0.04(#3)	CL	TS-D	N
	U-Factor 0.35			SHGC (N) 0.34				VT (N) 0.49			CR 53	
18	SUNCOOL 70/35 PRO T / ARG97 / STRATOBEL 44.1 (6MM/8MM) - 35MM IG											
	0.230	0.750	0.318					ARG97	0.021(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC (N) 0.25				VT (N) 0.46			CR 53	
19	SN 70/35 / ARG97 / SN 70/35 / ARG97 / CLR (6MM/6MM/6MM) - 48MM IG											
	0.230	0.500	0.230	0.625	0.221			ARG97	0.025(#2) / 0.025(#4)	CL	TS-D	N
	U-Factor 0.27			SHGC (N) 0.18				VT (N) 0.35			CR 52	
20	RLE 70/36 / ARG97 / CLR / ARG97 / iPlus ADVANCED 1.0 (6MM/4MM/6MM) - 50MM IG											
	0.221	0.625	0.152	0.750	0.230			ARG97	0.036(#2) / 0.022(#5)	CL	TS-D	N
	U-Factor 0.27			SHGC (N) 0.22				VT (N) 0.39			CR 52	

The Condensation Resistance results obtained from this procedure are for controlled laboratory conditions and do not include the effects of air movement through the specimen, solar radiation, and the thermal bridging that may occur due to the specific design and construction of the fenestration system opening.

Ratings values included in this report are for submittals to an NFRC-licensed IA and are not meant to be used directly for labeling purposes. Only those values identified on a valid Certification Authorization Report (CAR) by an NFRC accredited Inspection Agency (IA) are to be used for labeling purposes. The ratings values were rounded in accordance to NFRC 601, NFRC Unit and Measurement Policy.

Intertek-ATI is an NFRC accredited simulation laboratory and all simulations were conducted in full compliance with NFRC approved procedures and specifications. The values included in this report are not considered in compliance with ANSI/NFRC 100, ANSI/NFRC 200, and/or NFRC 500 unless the associated validation test requirements have been satisfied, as applicable.

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 I5156.01-116-45.

Intertek-ATI will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Intertek-ATI for the entire test record retention period. The test record retention end date for this report is June 11, 2023.

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 so named herein and relates only to the product simulated. This report may not be reproduced, except in full, without the written approval of Intertek-ATI

For INTERTEK-ATI:

SIMULATED BY:

REVIEWED BY:

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Megan M. Yingst  
Simulation Technician

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Eric S. Leitner  
Simulation Technician Team Leader  
Simulator-In-Responsible-Charge

MMY:mmy  
I5156.03-116-45

Attachments (pages):                      This report is complete only when all attachments listed are included.  
Appendix A: Drawings and Bills of Material (7)

**Revision Log**

<b><u>Rev. #</u></b>	<b><u>Date</u></b>	<b><u>Page(s)</u></b>	<b><u>Revision(s)</u></b>
.01R0	06/15/18	All	Original Report Issued to Avrams Inc..
.02R0	10/25/18	All	Report reissued to AluminTechno, JLLC



All drawings and Bills of Material used to simulate this product are enclosed in this Appendix  
Some drawings may be omitted at the extruder's request.

PROJECT NAME:

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

PREPARED BY:



PROJECT ADDRESS:

**130 DERRY CT YORK, PA 17406**

DATE	REVISION	#

**APPROVED**

CLIENTS SIGNATURE \_\_\_\_\_  
DATE: / /

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**DRAWING TITLE:**

**ASSEMBLY DRAWING AND SECTIONS**

REVIEWED BY PROJECT MANAGER

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
NOTE: \_\_\_\_\_

DIMENSIONS FIELD VERIFIED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
NOTE: \_\_\_\_\_

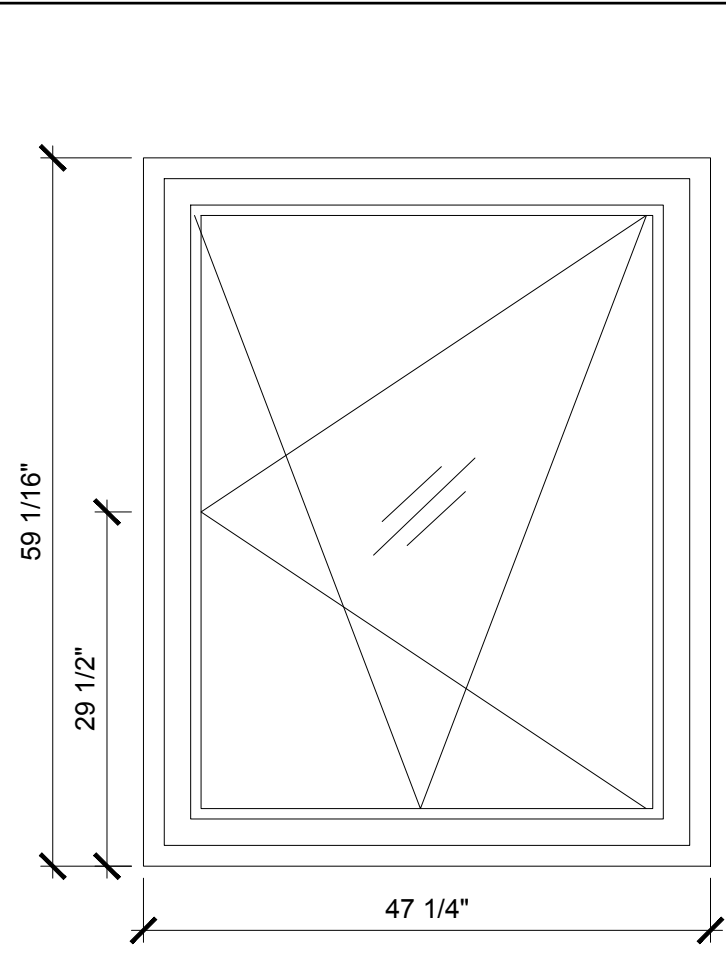
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DRAWN BY: EG

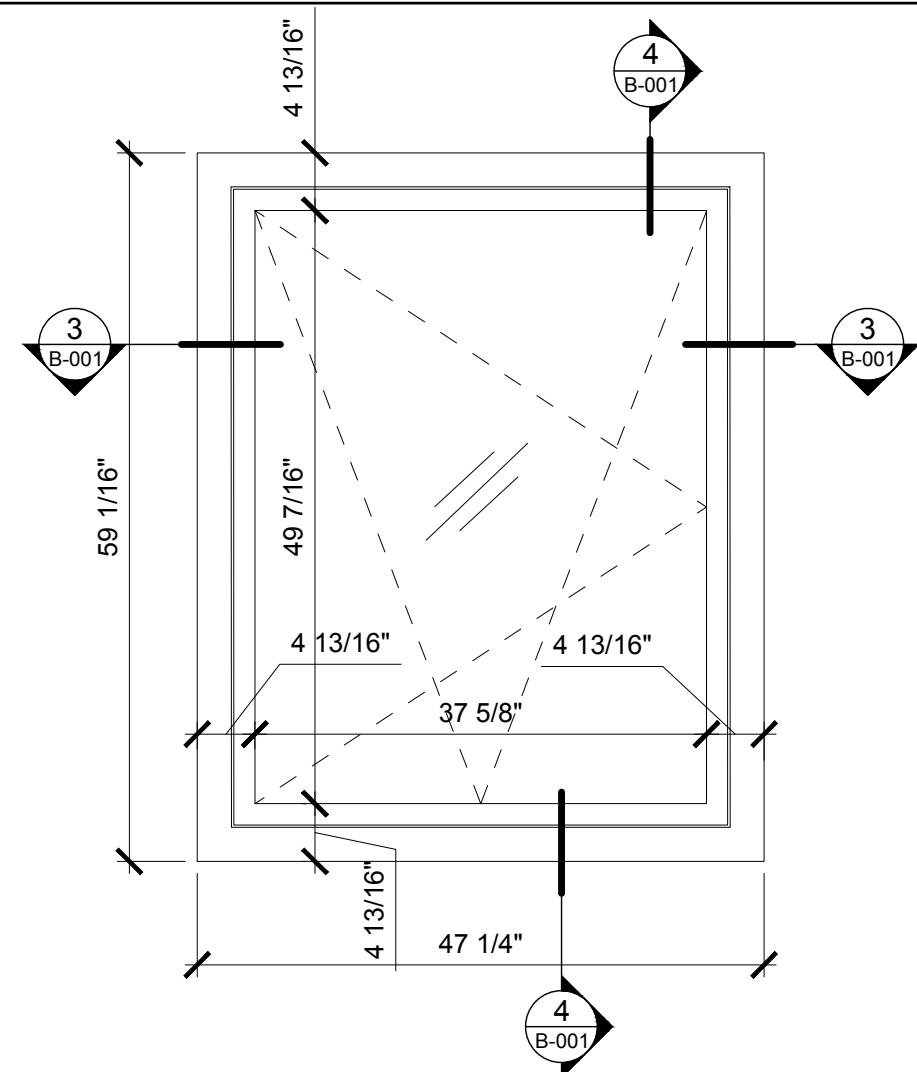
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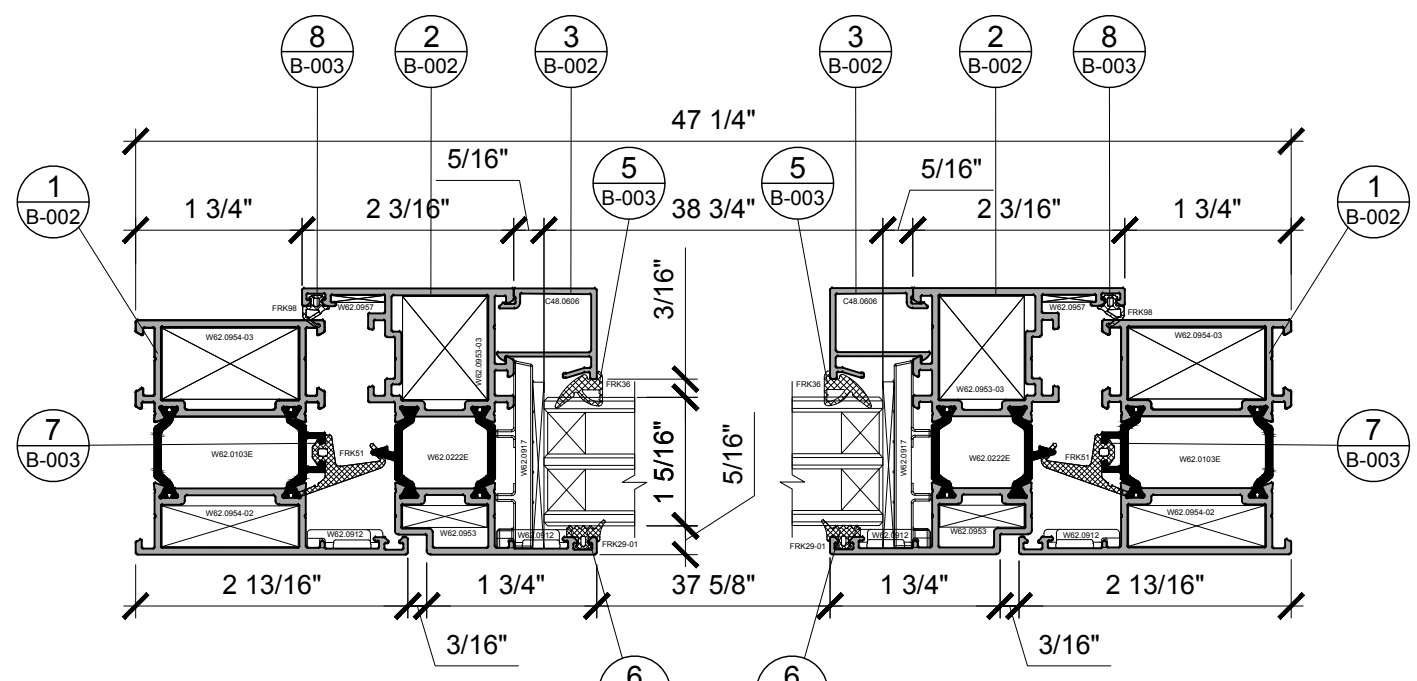
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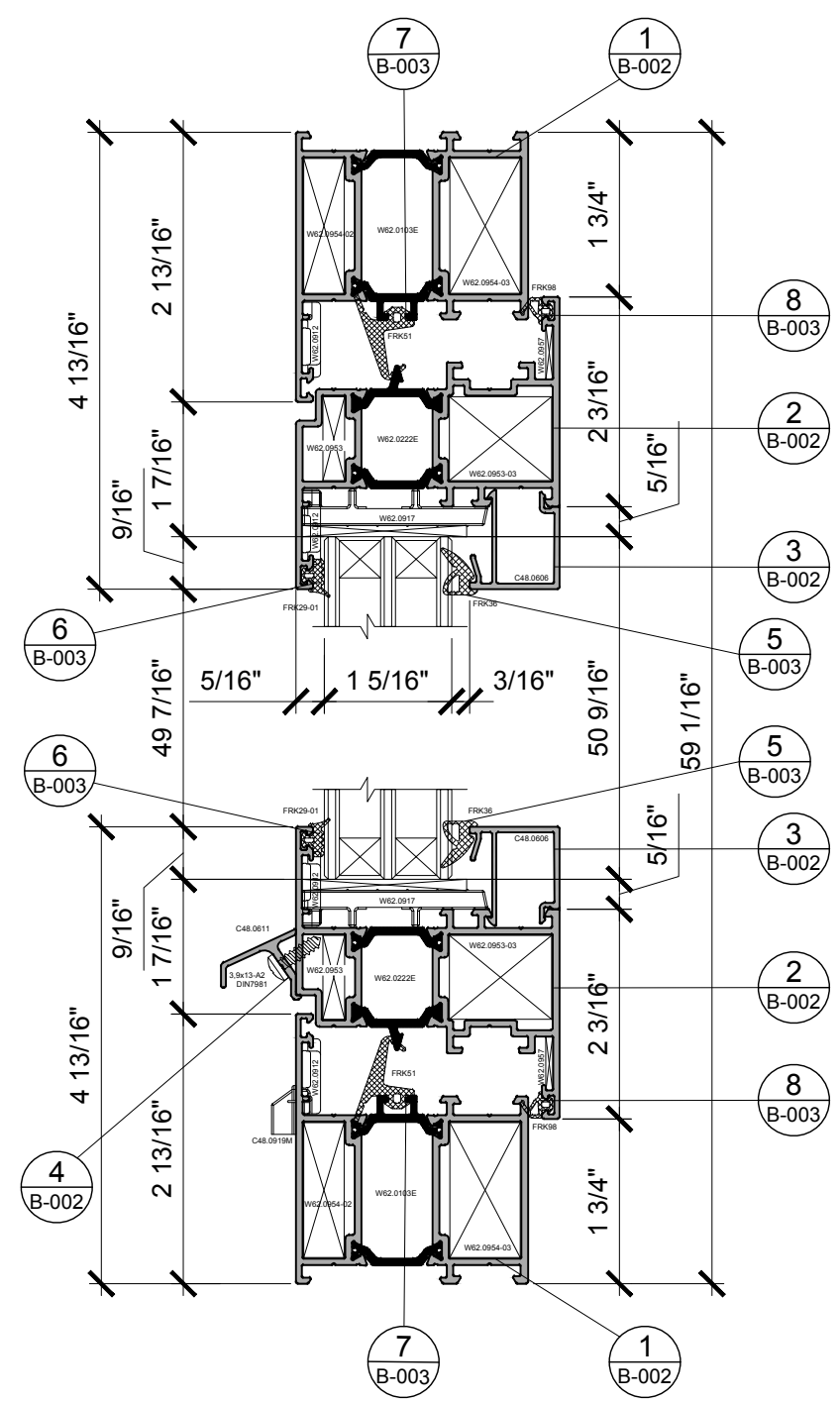
**1 WINDOW ELEVATION INTERIOR VIEW**  
SCALE: 1/2" = 1'-0"



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



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



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

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	#

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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: \_\_\_\_\_

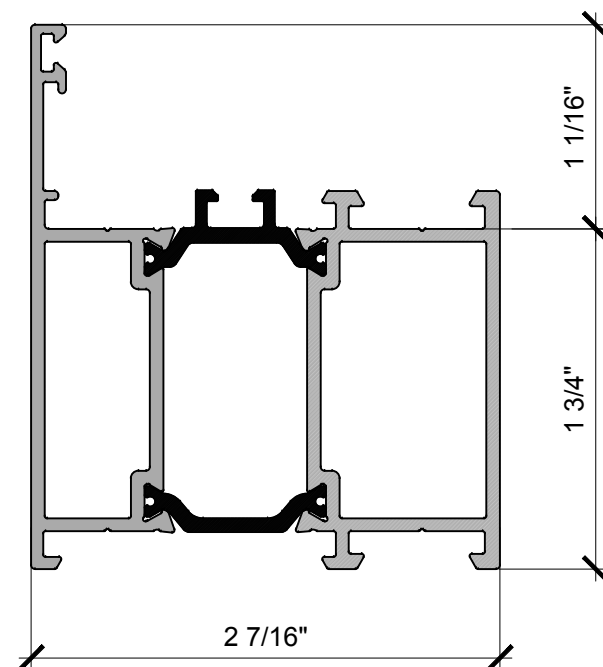
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DRAWN BY: EG

CHECKED BY: VP; AA

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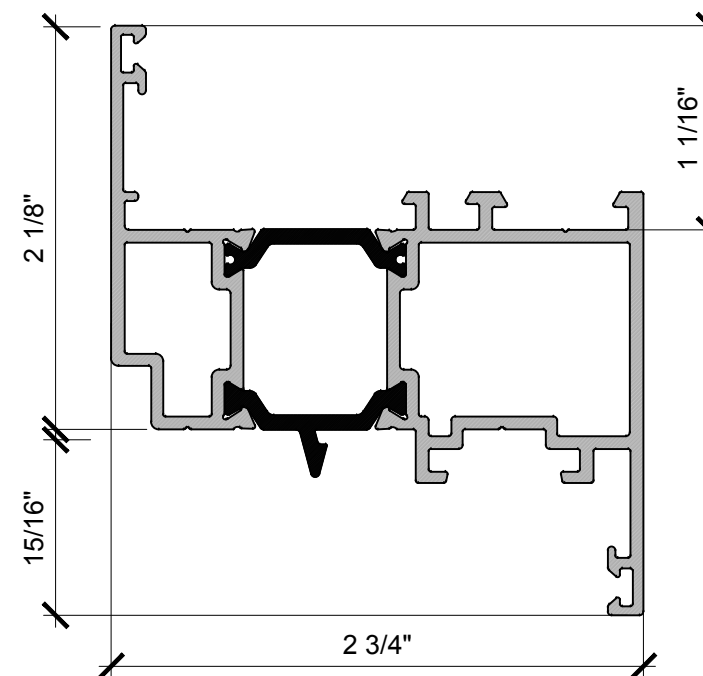
**B-002.00**



Material: Extruded Aluminum with Thermal Break

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

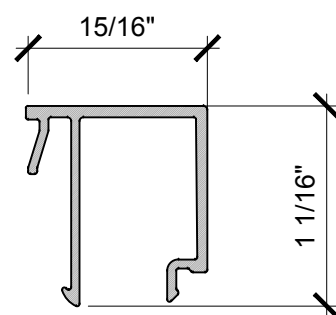
1 SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum with Thermal Break

**SASH MOLDING EXTRUSION W62.0222E**

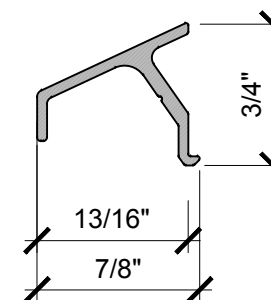
2 SCALE: 1'-0" = 1'-0"



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"

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

PREPARED BY:  
**CAD  
S H O P S**

PROJECT ADDRESS:  
**130 DERRY CT YORK, PA 17406**

DATE	REVISION	#

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DATE \_\_\_\_/\_\_\_\_/\_\_\_\_

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DRAWING TITLE:  
**INDIVIDUAL FRAME  
AND SASH  
COMPONENTS SECTIONS**

REVIEWED BY PROJECT MANAGER  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
NOTE: \_\_\_\_\_

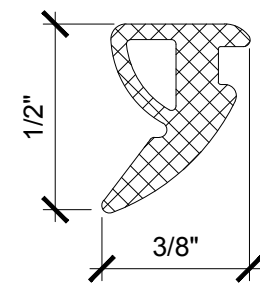
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NOTE: \_\_\_\_\_

DATE: 06.07.2018

DRAWN BY: EG

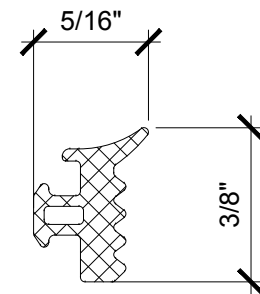
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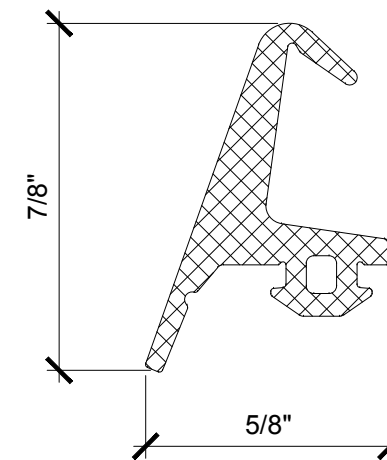
Material: Rubber

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



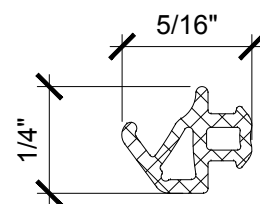
Material: Rubber

**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"

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

PREPARED BY:  
**CAD SHOPS**

PROJECT ADDRESS:  
**130 DERRY CT YORK, PA 17406**

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**DRAWING TITLE:**  
**INSTALLATION DETAILS**

REVIEWED BY PROJECT MANAGER  
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NOTE: \_\_\_\_\_

DIMENSIONS FIELD VERIFIED  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
NOTE: \_\_\_\_\_

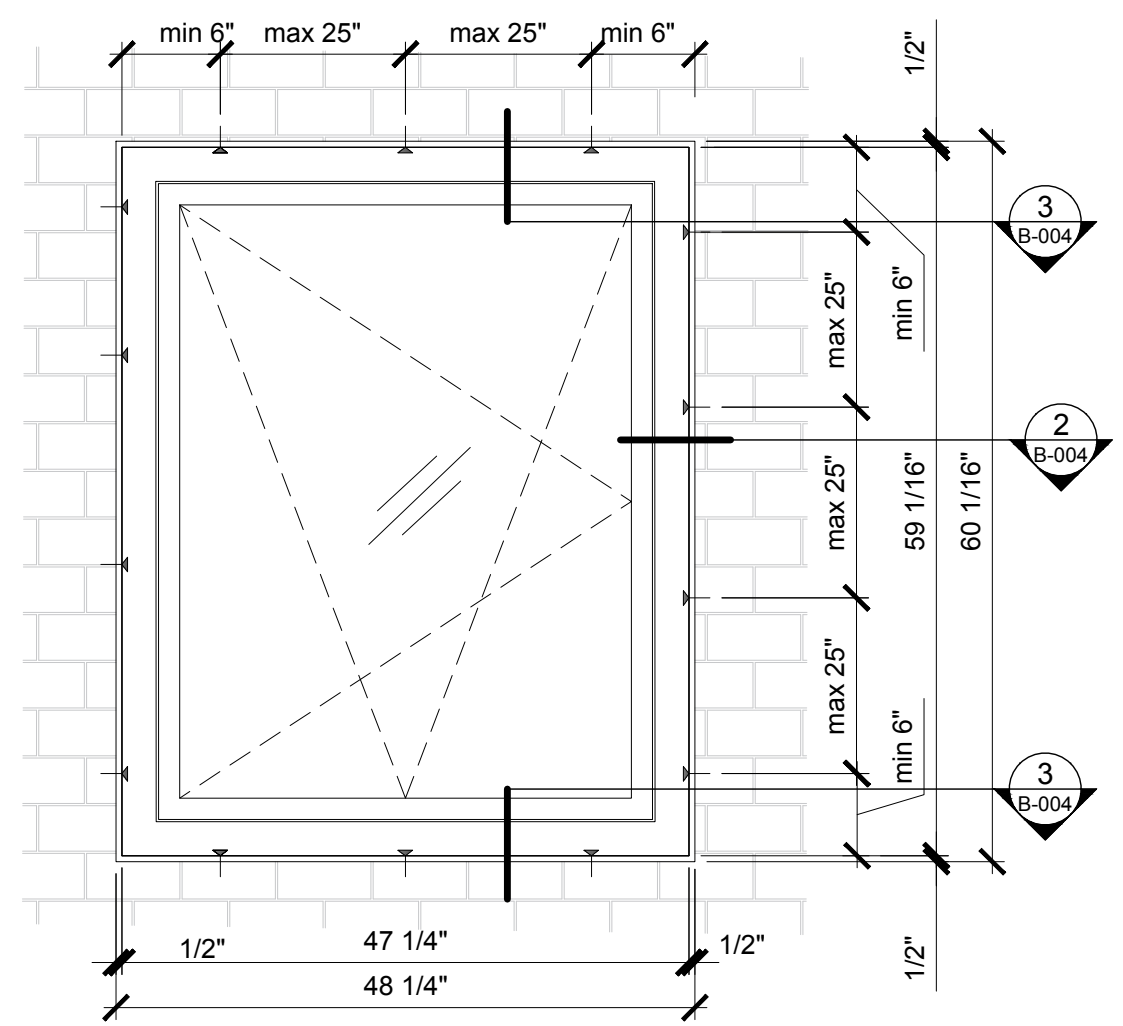
DATE: 06.07.2018

DRAWN BY: EG

CHECKED BY: VP; AA

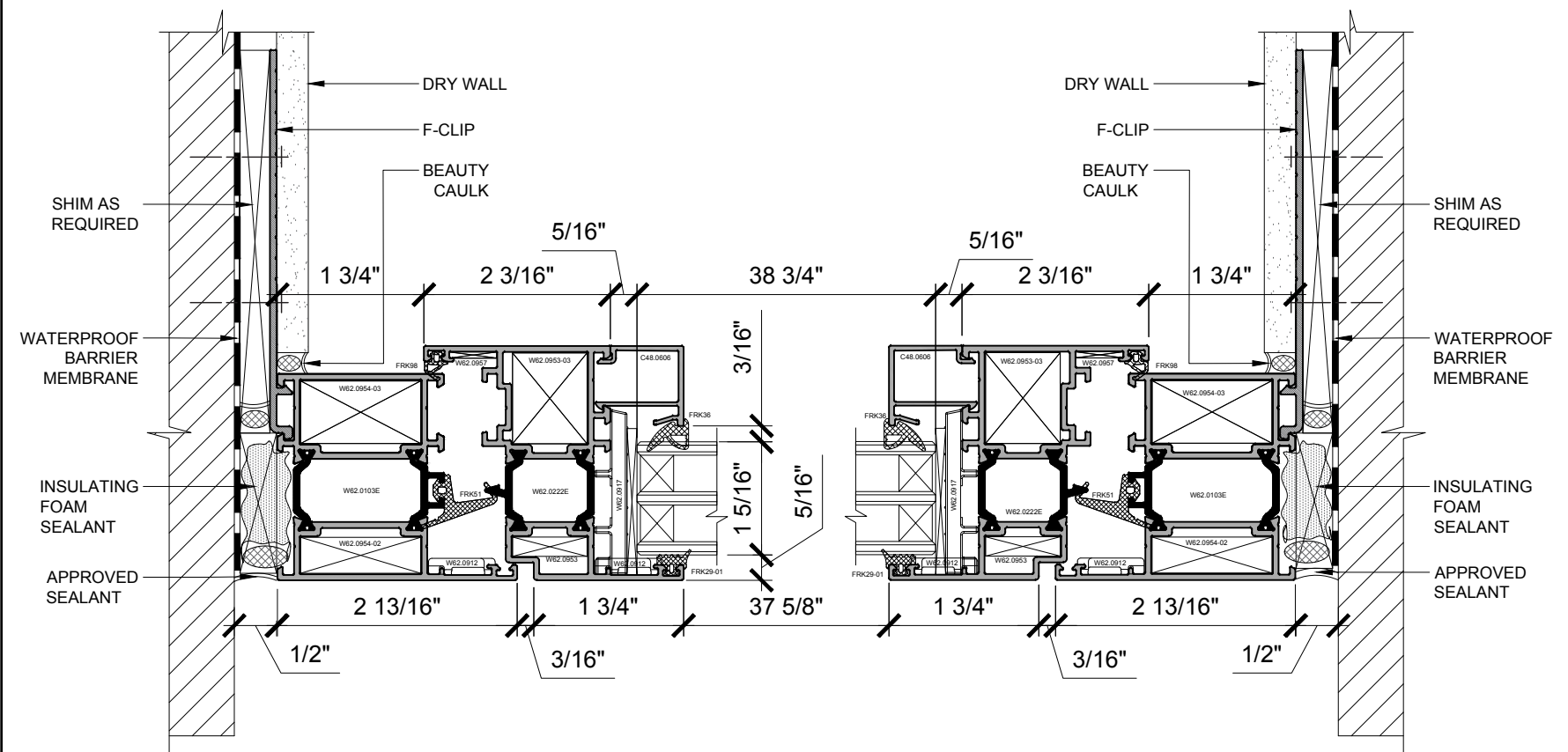
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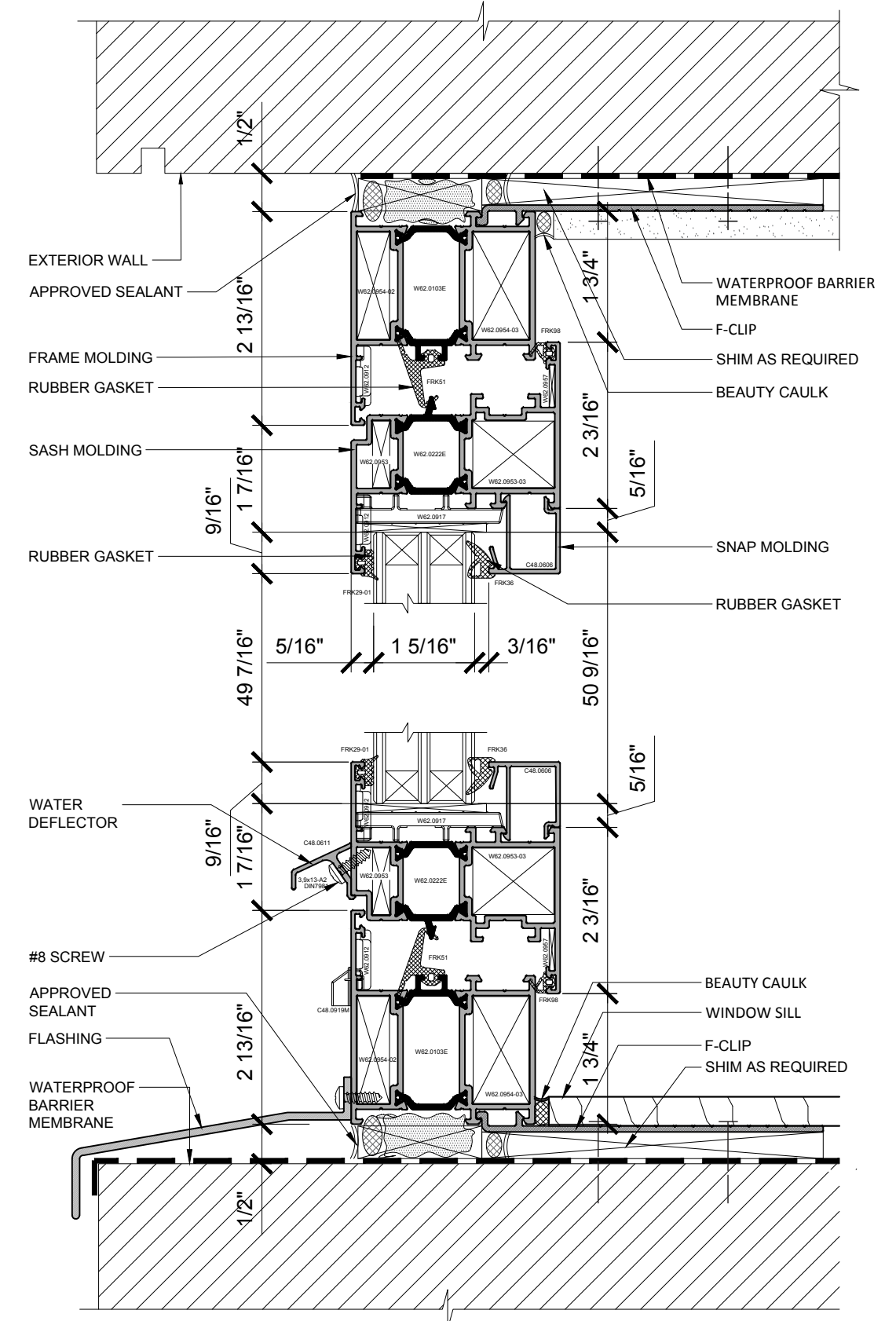


**1 SCHEME OF F-CLIPS LOCATION**  
SCALE: 3/4" = 1'-0"

**SYMBOL LEGEND:**  
◀ - ANCHORING POINT



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



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

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	#

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**DRAWING TITLE:**

**HARDWARE DETAILS**

REVIEWED BY PROJECT MANAGER

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NOTE: \_\_\_\_\_

DIMENSIONS FIELD VERIFIED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NOTE: \_\_\_\_\_

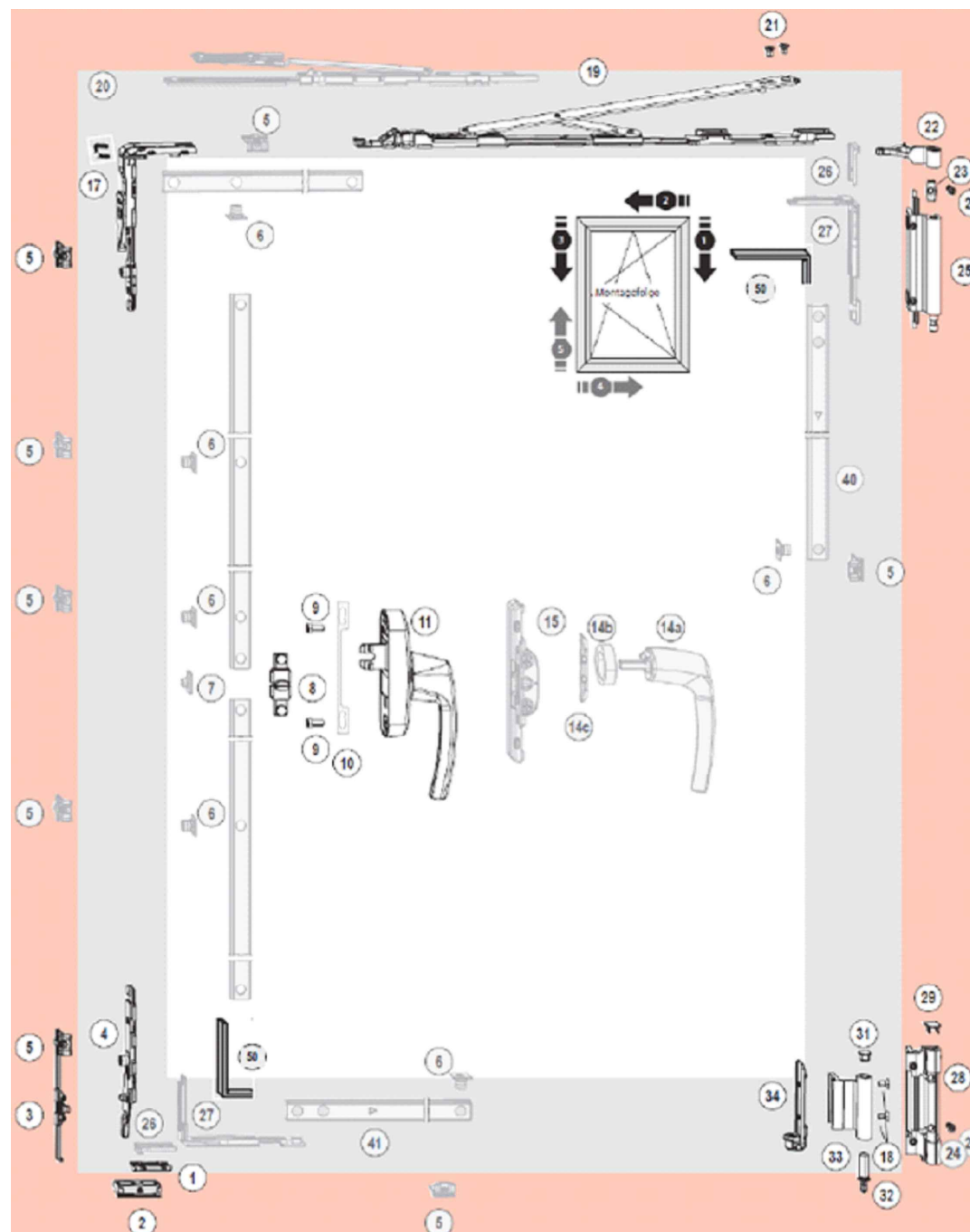
DATE: 06.07.2018

DRAWN BY: EG

CHECKED BY: VP; AA

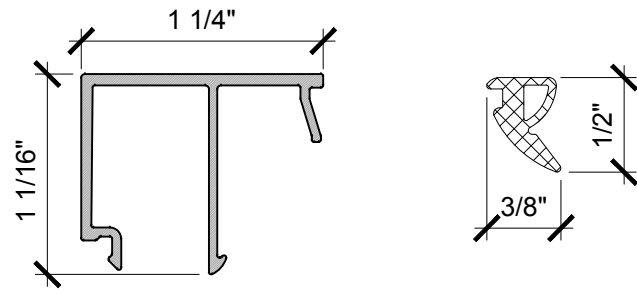
DRAWING No: \_\_\_\_\_ SIZE: B

**B-005.00**



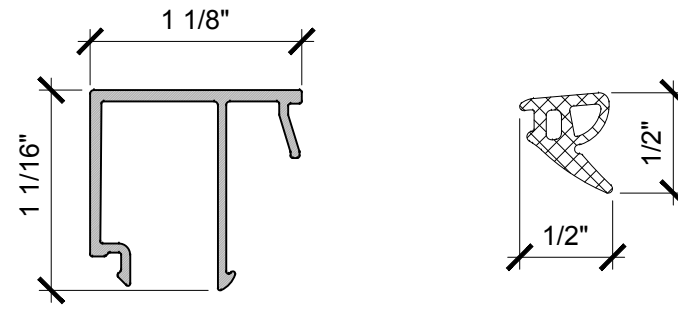
- ① ② ③ ④ ⑤ ⑥ ⑦ locking elements kit - art. 728804
- ⑤ strike plate - art. 728918
- ⑥ locking element, snap in - art. 334671
- ⑧ T-receptor - art. 334574
- ⑨ ⑩ handle bearing - art. 331937
- ⑪ handle ROTO LINE - art. 377400
- ⑲ sash stay 600 - art. 728786
- ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ hinge group DK - art. 728700
- ㉞ ㉟ ① ② corner switch MV art. 728842 - 2 pcs
- ④① rod profile - art. AYPC.W62.0607
- ⑤① groove corner VTC - art. AYPC.W62.0968 - 2 pcs

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



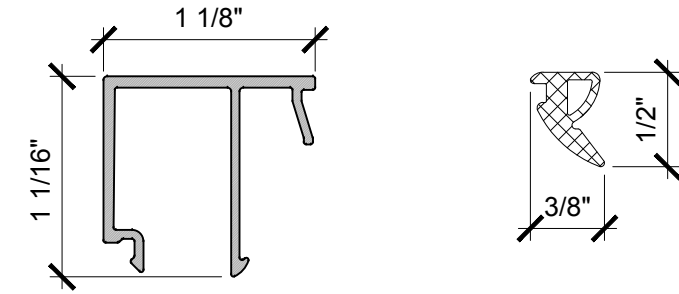
1

Material: Extruded Aluminum, Rubber  
 GLAZING BEAD EXTRUSION C48.0608  
 AND INTERIOR GASKET FRK36 FOR  
 26 MM INFILL  
 SCALE: 1'-0" = 1'-0"



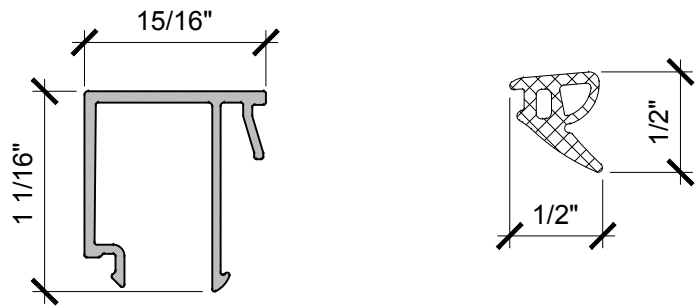
2

Material: Extruded Aluminum, Rubber  
 GLAZING BEAD EXTRUSION C48.0607  
 AND INTERIOR GASKET FRK67 FOR  
 28 MM INFILL  
 SCALE: 1'-0" = 1'-0"



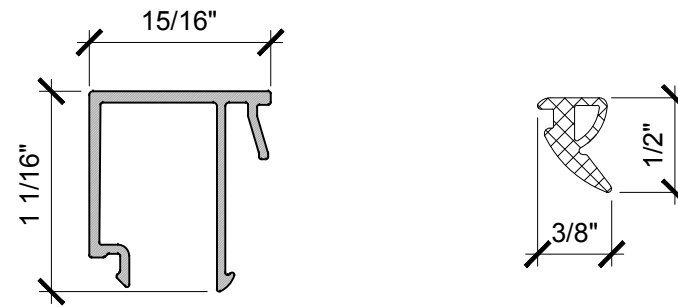
3

Material: Extruded Aluminum, Rubber  
 GLAZING BEAD EXTRUSION C48.0607  
 AND INTERIOR GASKET FRK36 FOR  
 30 - 31 MM INFILL  
 SCALE: 1'-0" = 1'-0"



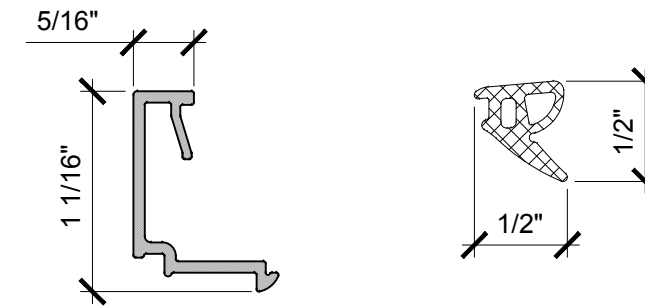
4

Material: Extruded Aluminum, Rubber  
 GLAZING BEAD EXTRUSION C48.0606  
 AND INTERIOR GASKET FRK67 FOR  
 32 - 33 MM INFILL  
 SCALE: 1'-0" = 1'-0"



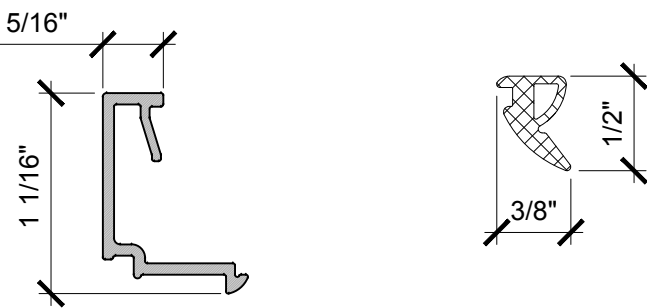
5

Material: Extruded Aluminum, Rubber  
 GLAZING BEAD EXTRUSION C48.0606  
 AND INTERIOR GASKET FRK36 FOR  
 34 - 35 MM INFILL  
 SCALE: 1'-0" = 1'-0"



6

Material: Extruded Aluminum, Rubber  
 GLAZING BEAD EXTRUSION C48.0602  
 AND INTERIOR GASKET FRK67 FOR  
 48 MM INFILL  
 SCALE: 1'-0" = 1'-0"



7

Material: Extruded Aluminum, Rubber  
 GLAZING BEAD EXTRUSION C48.0602  
 AND INTERIOR GASKET FRK36 FOR  
 50 MM INFILL  
 SCALE: 1'-0" = 1'-0"

DATE	REVISION	#

**APPROVED**  
 CLIENT'S SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_/\_\_\_\_/\_\_\_\_

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 PERMISSION IS GIVEN.

**SPECIAL NOTES:**  
 DO NOT SCALE DRAWINGS  
 ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO  
 ANY FABRICATION.

**DRAWING TITLE:**  
**VARIOUS GLAZING BEADS**

**REVIEWED BY PROJECT MANAGER**  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE: \_\_\_\_\_

**DIMENSIONS FIELD VERIFIED**  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE: \_\_\_\_\_

**DATE: 06.07.2018**

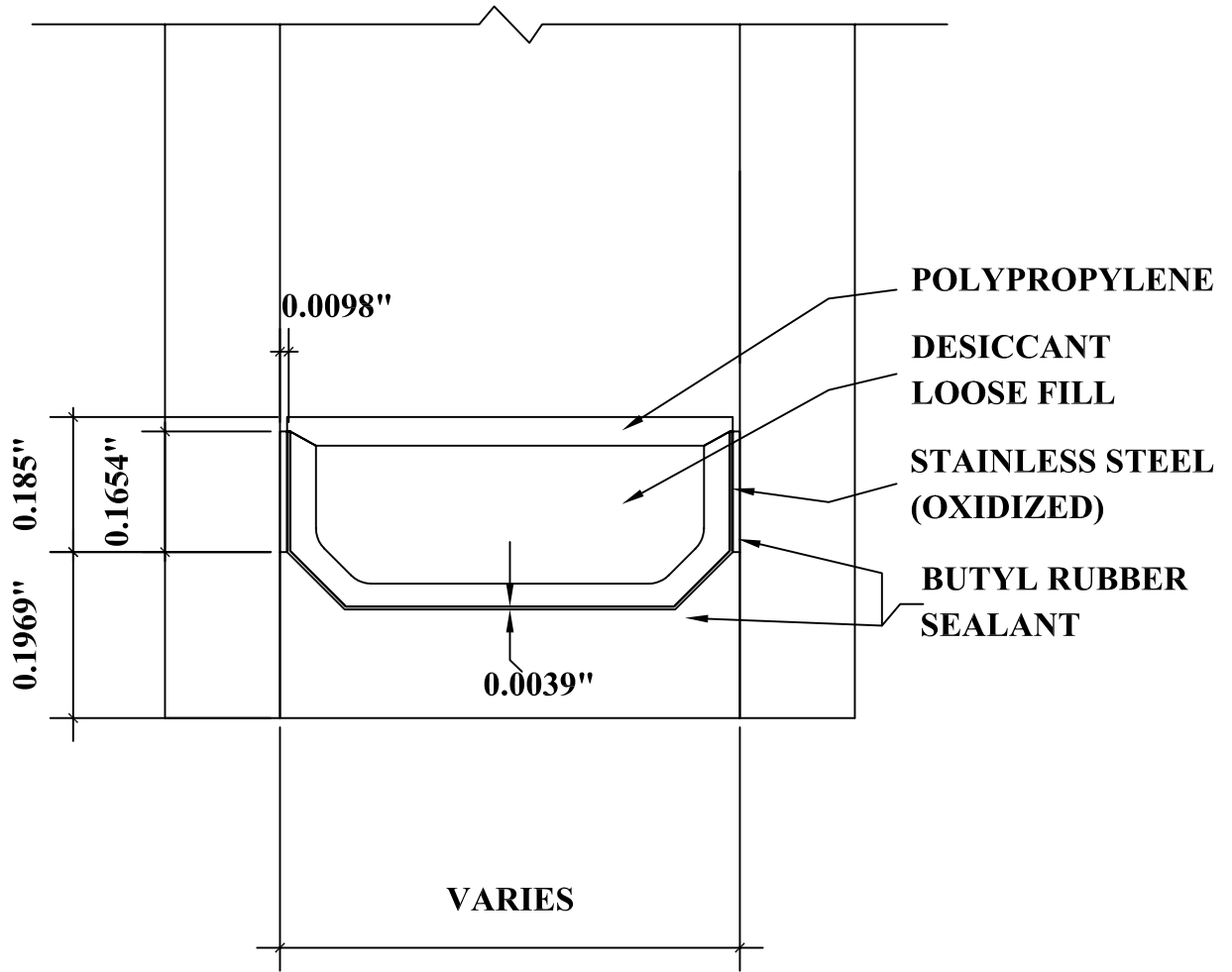
**DRAWN BY: EG**

**CHECKED BY: VP; AA**

**DRAWING No:** \_\_\_\_\_ **SIZE: B**

**B-006.00**

**intertek** Report #: I5156-116-45  
 Total Quality. Assured. Date: 06/15/18  
 Verified by: Allison M. Ford



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