

ALUMINTECHNO, JLLC COMPUTER SIMULATION REPORT

SCOPE OF WORK

W72 FIXED WINDOW - NFRC 100/200/500

REPORT NUMBER

L3930.01-116-45 R1

TEST DATE

03/29/21

ISSUE DATE

04/15/21

REVISION DATE

04/28/21

RECORD RETENTION END DATE

03/29/26

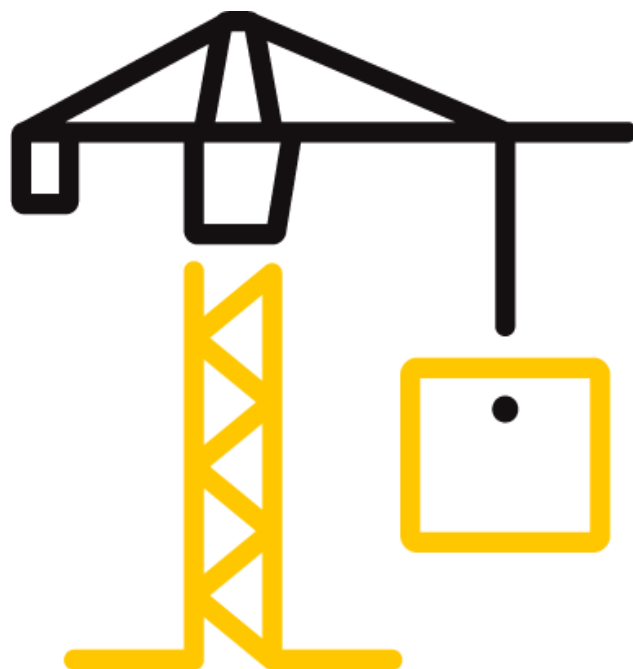
PAGES

16

DOCUMENT CONTROL NUMBER

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TEST REPORT FOR ALUMINTECHNO, JLLC

Report No: L3930.01-116-45 R1

Date: 04/28/21

REPORT ISSUED TO

ALUMINTECHNO, JLLC

Selitskogo str., 12/211

FEZ "Minsk"

Minsk Region, Minsk Area

220075,

REPUBLIC OF BELARUS

SECTION 1

SUMMARY

SERIES/MODEL: W72 Fixed Window

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted to perform U-Factor, Solar Heat Gain Coefficient, Visible Transmittance and Condensation Resistance simulations in accordance with the National Fenestration Rating Council (NFRC).

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends five years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

FOR INTERTEK B&C:

COMPLETED BY: Jonathan Spencer

TITLE: Project Engineer

SIGNATURE:

DATE: 04/28/21

REVIEWED BY: Eric S. Leitner

TITLE: Manager - Simulations
and Thermal Testing, SIRC

SIGNATURE:

DATE: 04/28/21

JPS:jps

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SECTION 2

TEST METHODS

The products were evaluated in accordance with the following:

ANSI/NFRC 100-2020, Procedure for Determining Fenestration Product U-Factors

ANSI/NFRC 200-2020, 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

**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 Certificate of Authorization (CA) by an NFRC accredited Inspection Agency (IA) are to be used for labeling purposes. The ratings values were rounded in accordance with NFRC 601, NFRC Unit and Measurement Policy.

Intertek B&C 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.

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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 7.4.4
CENTER-OF-GLASS MODELING	WINDOW 7.4.14
TOTAL PRODUCT CALCULATIONS	WINDOW 7.4.14
SPECTRAL DATA LIBRARY	IGDB 78.0

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.

SECTION 4

SIMULATION SPECIMEN DESCRIPTION

SERIES/MODEL	W72 Fixed Window
PRODUCT TYPE	Fixed, 4-Sided
FRAME MATERIAL	AT - Aluminum w/ Thermal Breaks - All Members
SASH MATERIAL	NA - Not Applicable
STANDARD SIZE	1200mm x 1500mm

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SECTION 4 (Continued)

SIMULATION SPECIMEN DESCRIPTION

SPACER OPTIONS			
TYPE	PRIMARY SEAL	SECONDARY SEAL	CODE
Ensinger Thermix TX.N spacer	Butyl Rubber	Butyl Rubber	TS-D

GRID OPTIONS		
GRID SIZE	GRID TYPE	GRID PATTERN
8mm x 18mm	Aluminum Contour Grid (Painted)	NFRC Standard
8mm x 25mm	Aluminum Contour Grid (Painted)	NFRC Standard
17mm, 27mm, 47mm	SDL Bar	

REINFORCEMENT OPTIONS	
LOCATION	MATERIAL
None	-

GAS FILLING TECHNIQUE	
FILL TYPE	METHOD
90% Argon	Evacuated Chamber
97% Argon	Evacuated Chamber

EDGE-OF-GLASS CONSTRUCTION	
INTERIOR CONDITION	Aluminum glazing bead with EPDM gasket against glass
EXTERIOR CONDITION	EPDM gasket between frame and glass

WEATHERSTRIPPING		
TYPE	QUANTITY	LOCATION
None	-	-

FRAME/SASH MATERIALS FINISH	
INTERIOR	Painted Aluminum
EXTERIOR	Painted Aluminum

VALIDATION MATRIX*	
PRODUCT LINE	REPORT NUMBER
None	-

**These products are part of a validation matrix. Only one is required for validation testing.*

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SECTION 5

SPECIALTY PRODUCTS TABLE

The specialty products method allows 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 calculates 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	0.004595	0.007464	0.010173
SHGC1	0.830211	0.746094	0.666656
VT0	0.000000	0.000000	0.000000
VT1	0.825617	0.738630	0.656483

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

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

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SECTION 6

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (W72 Fixed Window)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
1	SB60 / arg90 / clr (6mm/6mm) 25.4mm											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	TS-D	N,G,S
	U-Factor 0.28			SHGC(N/<1/>1) 0.32 / 0.29 / 0.26				VT(N/<1/>1) 0.58 / 0.52 / 0.46		CR 60		
2	SB67 / arg90 / clr (6mm/6mm) 25.4mm											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	TS-D	N,G,S
	U-Factor 0.28			SHGC(N/<1/>1) 0.24 / 0.22 / 0.20				VT(N/<1/>1) 0.44 / 0.40 / 0.35		CR 60		
3	SB70 / arg90 / clr (6mm/6mm) 25.4mm											
	0.223	0.500	0.223					ARG90	0.018(#2)	CL	TS-D	N,G,S
	U-Factor 0.28			SHGC(N/<1/>1) 0.23 / 0.21 / 0.19				VT(N/<1/>1) 0.53 / 0.48 / 0.42		CR 61		
4	SunGuard SN 70/35 HT / arg90 / clr (6mm/6mm) 30mm											
	0.230	0.709	0.230					ARG90	0.025(#2)	CL	TS-D	N,G,S
	U-Factor 0.29			SHGC(N/<1/>1) 0.27 / 0.24 / 0.22				VT(N/<1/>1) 0.57 / 0.51 / 0.45		CR 61		
5	SunGuard HP Neutral 60 / arg90 / clr (6mm/6mm) 30mm											
	0.226	0.709	0.230					ARG90	0.068(#2)	CL	TS-D	N,G,S
	U-Factor 0.30			SHGC(N/<1/>1) 0.32 / 0.29 / 0.26				VT(N/<1/>1) 0.46 / 0.41 / 0.36		CR 60		
6	SunGuard SNX 60 HT / arg90 / SunGuard SN 70/35 HT (6mm/6mm) 30mm											
	0.230	0.709	0.230					ARG90	0.026(#2) / 0.025(#3)	CL	TS-D	N,G,S
	U-Factor 0.28			SHGC(N/<1/>1) 0.21 / 0.19 / 0.17				VT(N/<1/>1) 0.42 / 0.38 / 0.34		CR 62		
7	Suncool 70/35 / arg90 / clr (6mm/6mm) 32mm											
	0.230	0.787	0.223					ARG90	0.021(#2)	CL	TS-D	N,G,S
	U-Factor 0.29			SHGC(N/<1/>1) 0.30 / 0.27 / 0.24				VT(N/<1/>1) 0.58 / 0.52 / 0.46		CR 59		
8	Suncool 70/35 / arg97 / Planibel Top N+T (6mm/6mm) 32mm											
	0.230	0.787	0.230					ARG97	0.021(#2) / 0.04(#3)	CL	TS-D	N,G,S
	U-Factor 0.28			SHGC(N/<1/>1) 0.30 / 0.27 / 0.24				VT(N/<1/>1) 0.57 / 0.51 / 0.45		CR 60		
9	Suncool 66/33 / arg90 / clr (6mm/6mm) 32mm											
	0.233	0.787	0.223					ARG90	0.025(#2)	CL	TS-D	N,G,S
	U-Factor 0.29			SHGC(N/<1/>1) 0.29 / 0.26 / 0.24				VT(N/<1/>1) 0.55 / 0.49 / 0.44		CR 59		
10	Suncool 66/33 / arg97 / Planibel Top N+T (6mm/6mm) 32mm											
	0.233	0.787	0.230					ARG97	0.025(#2) / 0.04(#3)	CL	TS-D	N,G,S
	U-Factor 0.28			SHGC(N/<1/>1) 0.29 / 0.26 / 0.23				VT(N/<1/>1) 0.54 / 0.48 / 0.43		CR 60		

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SECTION 6 (Continued)

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (W72 Fixed Window)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft ² -F)		Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)			
11	Suncool 70/35 / arg90 / Planibel Top N+T (6mm/6mm) 32mm											
	0.230	0.787	0.230					ARG90	0.021(#2) / 0.04(#3)	CL	TS-D	N,G,S
	U-Factor 0.29		SHGC(N/<1/>1) 0.30 / 0.27 / 0.24				VT(N/<1/>1) 0.57 / 0.51 / 0.45		CR 60			
12	Suncool 70/35 / arg97 / Optitherm S3 ProT (6mm/6mm) 32mm											
	0.230	0.787	0.229					ARG97	0.021(#2) / 0.037(#3)	CL	TS-D	N,G,S
	U-Factor 0.28		SHGC(N/<1/>1) 0.30 / 0.27 / 0.24				VT(N/<1/>1) 0.57 / 0.51 / 0.46		CR 60			
13	Suncool 66/33 / arg90 / Planibel Top N+T (6mm/6mm) 32mm											
	0.233	0.787	0.230					ARG90	0.025(#2) / 0.04(#3)	CL	TS-D	N,G,S
	U-Factor 0.29		SHGC(N/<1/>1) 0.29 / 0.26 / 0.23				VT(N/<1/>1) 0.54 / 0.48 / 0.43		CR 60			
14	Suncool 66/33 / arg97 / Optitherm S3 ProT (6mm/6mm) 32mm											
	0.233	0.787	0.229					ARG97	0.025(#2) / 0.037(#3)	CL	TS-D	N,G,S
	U-Factor 0.28		SHGC(N/<1/>1) 0.29 / 0.26 / 0.24				VT(N/<1/>1) 0.55 / 0.49 / 0.43		CR 60			
15	Suncool 70/35 / arg90 / Stratophone 66.2 (6mm/12mm) 38mm											
	0.230	0.787	0.491					ARG90	0.021(#2)	CL	TS-D	N,G,S
	U-Factor 0.29		SHGC(N/<1/>1) 0.29 / 0.27 / 0.24				VT(N/<1/>1) 0.56 / 0.50 / 0.45		CR 60			
16	Stratobel iplus I-Top 44.2 / arg90 / Stratophone Top N+66.2 (8mm/12mm) 41mm											
	0.333	0.787	0.491					ARG90	0.038(#2) / 0.033(#3)	CL	TS-D	N,G,S
	U-Factor 0.29		SHGC(N/<1/>1) 0.37 / 0.33 / 0.30				VT(N/<1/>1) 0.59 / 0.52 / 0.47		CR 64			
17	SunGuard SN 70/35 HT / arg97 / clr / arg97 / SunGuard SN 70/35 HT (6mm/6mm/6mm) 54mm											
	0.230	0.709	0.230	0.709	0.230			ARG97	0.025(#2) / 0.025(#5)	CL	TS-D	N,G,S
	U-Factor 0.17		SHGC(N/<1/>1) 0.22 / 0.20 / 0.19				VT(N/<1/>1) 0.44 / 0.39 / 0.35		CR 66			
18	Suncool 70/35 Pro T / arg90 / clr / arg90 / Optitherm S3 ProT (6mm/6mm/6mm) 54mm											
	0.230	0.709	0.223	0.709	0.229			ARG90	0.021(#2) / 0.037(#5)	CL	TS-D	N,G,S
	U-Factor 0.17		SHGC(N/<1/>1) 0.27 / 0.24 / 0.22				VT(N/<1/>1) 0.51 / 0.46 / 0.41		CR 66			
19	Suncool 70/35 Pro T / arg97 / clr / arg97 / Planibel Top N+T (6mm/6mm/6mm) 58mm											
	0.230	0.787	0.223	0.787	0.230			ARG97	0.021(#2) / 0.04(#5)	CL	TS-D	N,G,S
	U-Factor 0.17		SHGC(N/<1/>1) 0.27 / 0.24 / 0.22				VT(N/<1/>1) 0.51 / 0.45 / 0.40		CR 66			
20	Planibel Top N+T / arg97 / Planibel Top N+T / arg97 / Planibel Top N+T / arg97 / Planibel Top N+T (4mm/4mm/4mm/4mm) 60mm											
	0.152	0.551	0.152	0.630	0.152	0.551	0.152	ARG97	0.04(#2) / 0.04(#4) / 0.04(#6) / 0.04(#7)	CL	TS-D	N,G,S
	U-Factor 0.13		SHGC(N/<1/>1) 0.34 / 0.31 / 0.28				VT(N/<1/>1) 0.51 / 0.45 / 0.40		CR 66			



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130 Derry Court
York, Pennsylvania 17406

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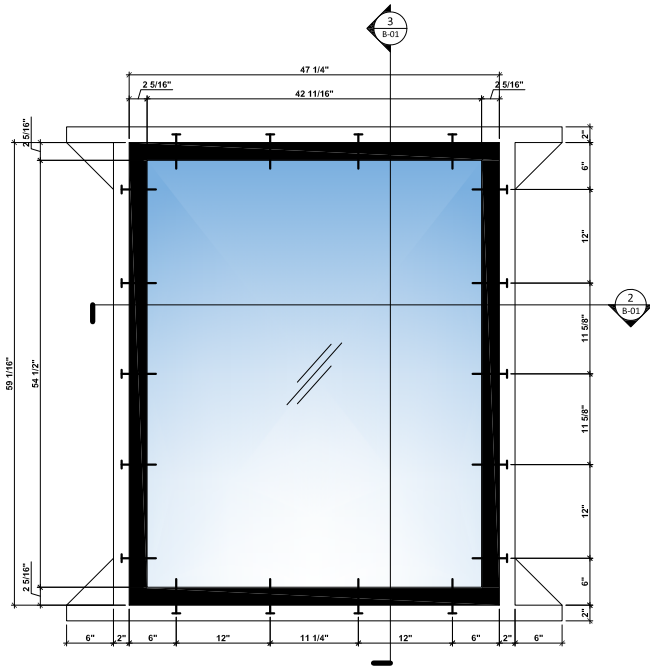
Report No: L3930.01-116-45 R1

Date: 04/28/21

SECTION 7

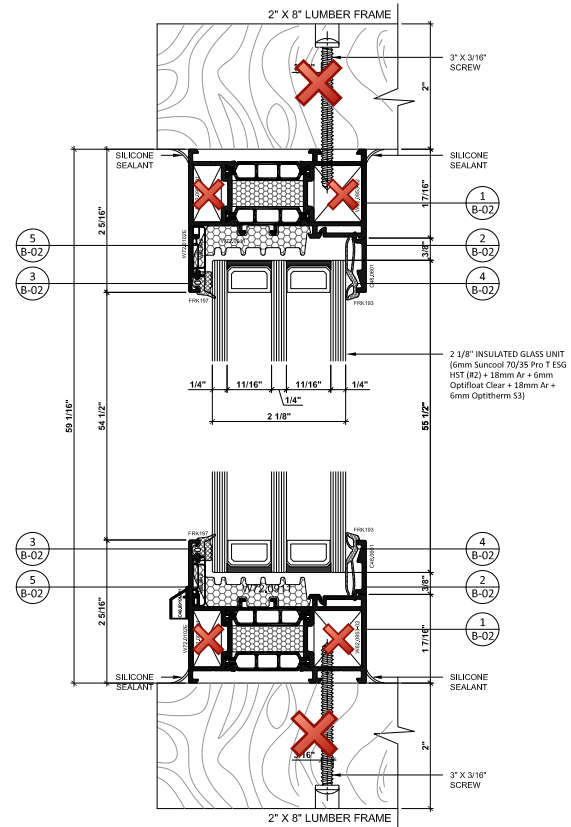
DRAWINGS / BILL OF MATERIALS

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

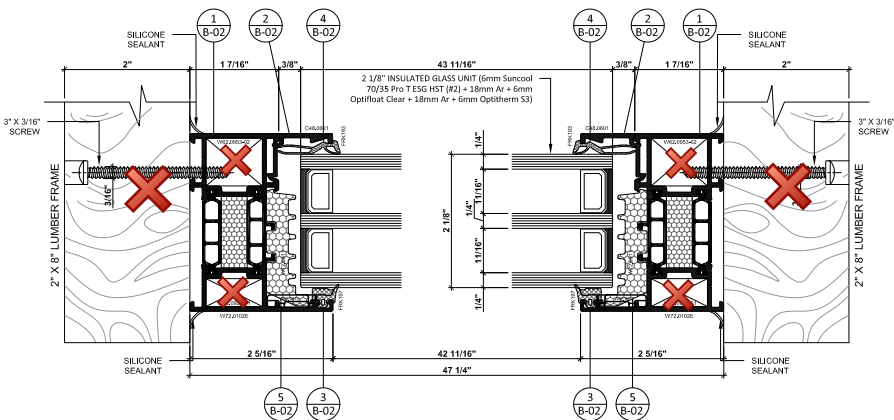


1 ALUMINUM WINDOW O6 ELEVATION EXTERIOR VIEW
SCALE: 1-1/2" = 1'-0"

SYMBOL LEGEND:
— 3" X 3/16" SCREWS



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



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

CLIENT:
AluminTechno JLLC
12 Sashkovo Street, office 211
Minsk region, FEZ Minsk,
220075 BELARUS

PROJECT NAME:
47 1/4" X 59 1/16" ALUMINUM WINDOW O6

PREPARED BY:

PROJECT ADDRESS:
**145 SHERWOOD AVENUE
FARMINGDALE,
NY 17406**

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE
DATE: / /

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ASSEMBLY DRAWINGS AND SECTIONS

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NOTE: _____

DIMENSIONS FIELD VERIFIED

BY: _____ DATE: _____
NOTE: _____

DATE: 12.16.2020

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CHECKED BY: VS

DRAWING No: _____ SIZE: B

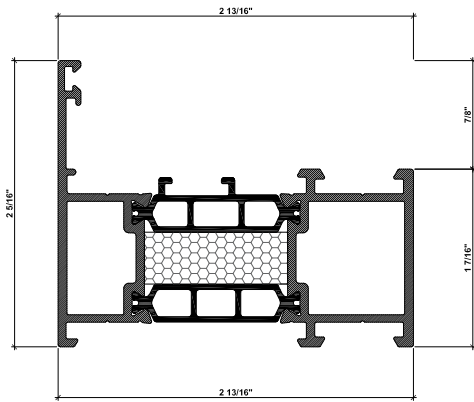
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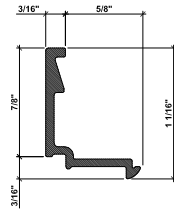
Report #: L3930-116-45

Date: 3/29/2021

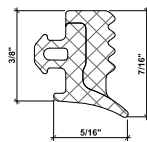
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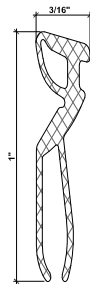
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 SCALE: 2'-0" = 1'-0"



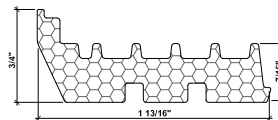
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BEAD PROFILE
EXTRUSION AYPC.C48.0601
 SCALE: 2'-0" = 1'-0"



3 Material: Rubber
GASKET FRK197
 SCALE: 4'-0" = 1'-0"



4 Material: Rubber
GASKET FRK193
 SCALE: 4'-0" = 1'-0"



5 Material: PU
FOAM INSULATION W72.0911
 SCALE: 2'-0" = 1'-0"



Report #: L3930-116-45
 Date: 3/29/2021
 Verified by: *Jonathan Spencer*
Digitally signed by Jonathan Spencer

CLIENT:

..33 comments(12-16-2020)loga.jpg

AluminTechno JLLC
 12 Sashkogo Street, office 211
 Minsk region, FEZ Minsk,
 220075 BELARUS

PROJECT NAME:

47 1/4" X 59 1/16"
ALUMINUM WINDOW
O6

PREPARED BY:

PROJECT ADDRESS:

145 SHERWOOD AVENUE
FARMINGDALE,
NY 17406

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE

DATE: / /

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NOTE:

DIMENSIONS FIELD VERIFIED

BY: DATE:

NOTE:

DATE: 12.16.2020

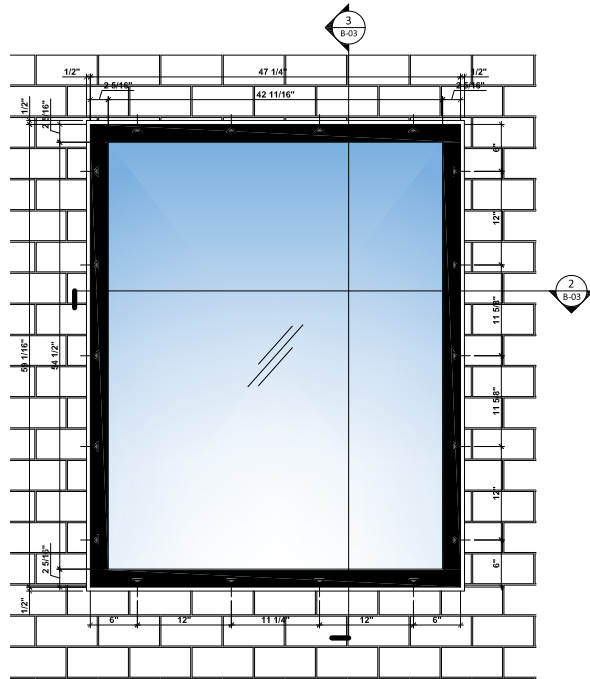
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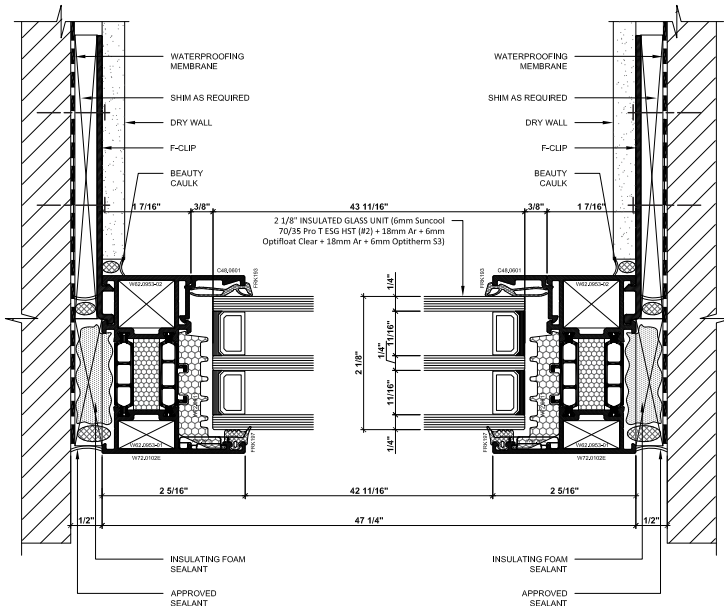
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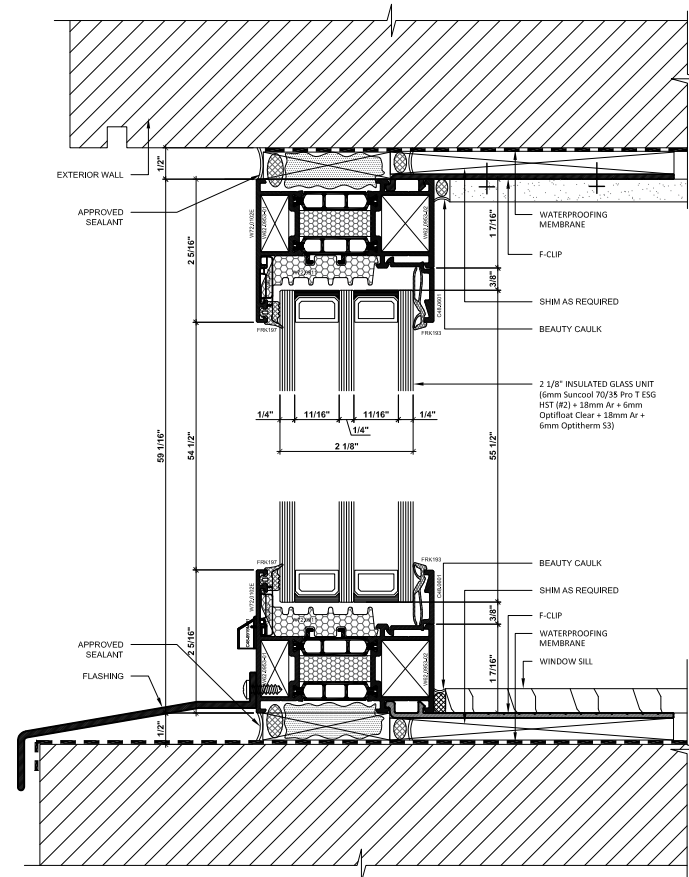


1 ALUMINUM WINDOW O6 ELEVATION EXTERIOR VIEW. SCHEME OF F-CLIP LOCATION
SCALE: 1-1/2" = 1'-0"



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

SYMBOL LEGEND:
- ANCHORING POINT



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

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Report #: L3930-116-45

Date: 3/29/2021

Verified by: *Jonathan Spencer*

CLIENT:

..33 comments12-16-202010pg.dwg

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12 Sashko Street, office 211
Minsk region, FEZ Minsk,
220075 BELARUS

PROJECT NAME:

**47 1/4" X 59 1/16"
ALUMINUM WINDOW
O6**

PREPARED BY:

PROJECT ADDRESS:

**145 SHERWOOD AVENUE
FARMINGDALE,
NY 11746**

DATE	REVISION	#

APPROVED

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DRAWING TITLE:

**INSTALLATION
DETAILS**

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NOTE: _____

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BY: _____ DATE: _____
NOTE: _____

DATE: 12.16.2020

DRAWN BY: MV

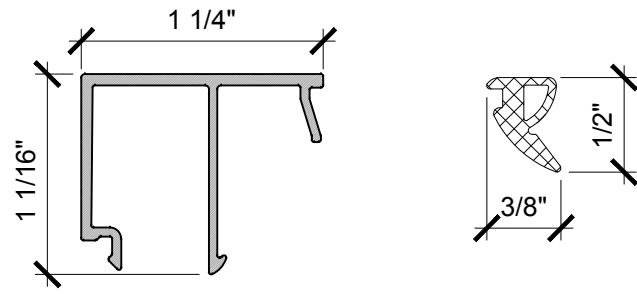
CHECKED BY: VS

DRAWING No: _____

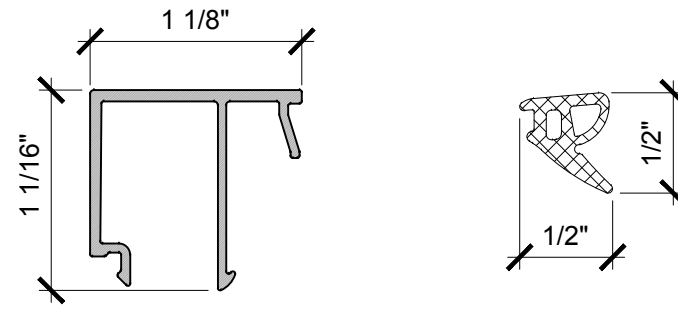
SIZE: B

B-03

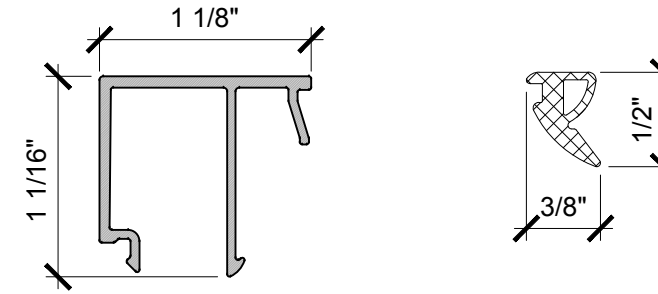
03 OF 03



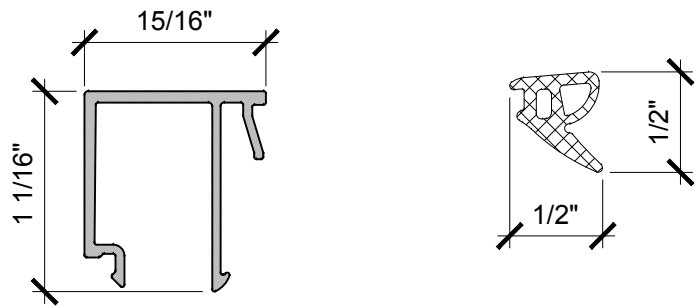
1
Material: Extruded Aluminum, Rubber
GLAZING BEAD EXTRUSION C48.0608
AND INTERIOR GASKET FRK36 FOR
26 MM INFILL
SCALE: 1'-0" = 1'-0"



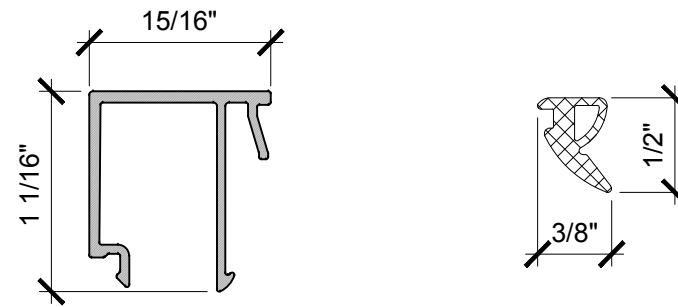
2
Material: Extruded Aluminum, Rubber
GLAZING BEAD EXTRUSION C48.0607
AND INTERIOR GASKET FRK67 FOR
28 MM INFILL
SCALE: 1'-0" = 1'-0"



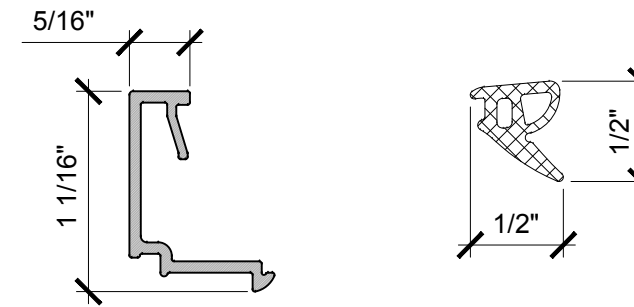
3
Material: Extruded Aluminum, Rubber
GLAZING BEAD EXTRUSION C48.0607
AND INTERIOR GASKET FRK36 FOR
30 - 31 MM INFILL
SCALE: 1'-0" = 1'-0"



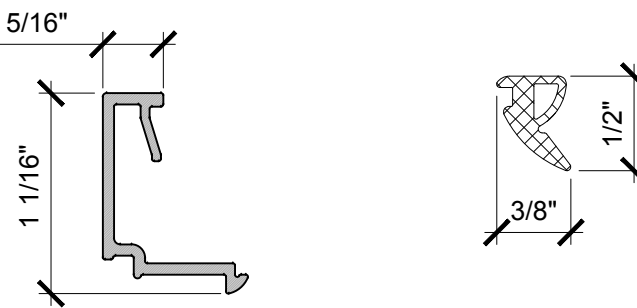
4
Material: Extruded Aluminum, Rubber
GLAZING BEAD EXTRUSION C48.0606
AND INTERIOR GASKET FRK67 FOR
32 - 33 MM INFILL
SCALE: 1'-0" = 1'-0"



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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ALL DRAWINGS SPECIFICATIONS AND COPIES
HERE OF FURNISHED BY CAD SHOPS AND SHALL
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ON THIS OR ANY OTHER PROJECT UNLESS WRITTEN
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**

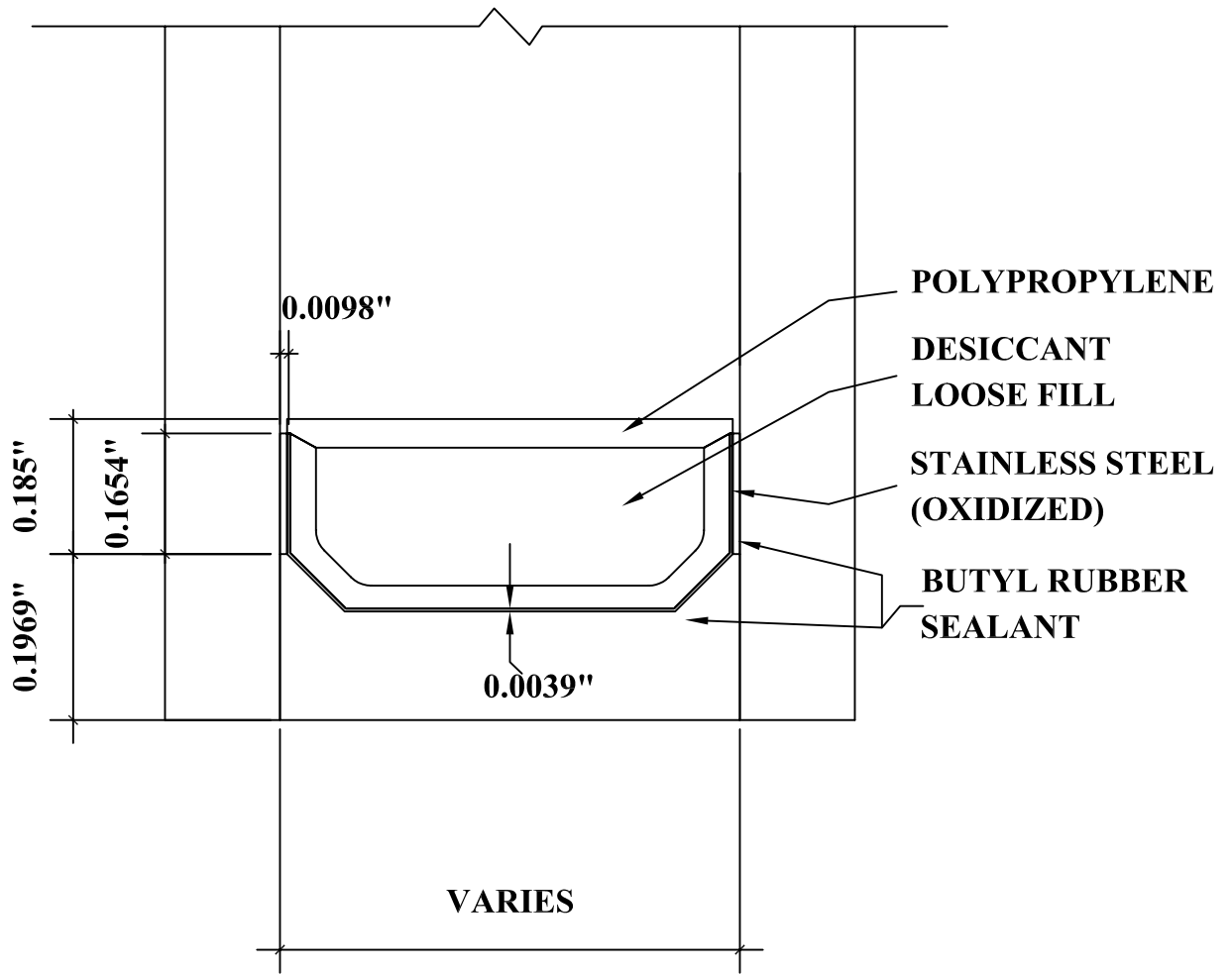
DRAWN BY: **EG**

CHECKED BY: **VP; AA**

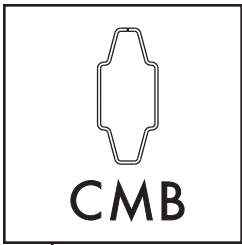
DRAWING No: _____ SIZE: **B**

B-006.00

intertek Report #: L3930-116-45
Total Quality. Assured. Date: 3/29/2021
Verified by: Jonathan Spence
Engineer Registered by Professional Engineers

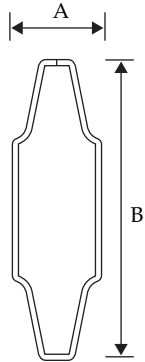


DETAIL FOR THERMAL MODELING OF
ENSINGER THERMIX TX.N SPACER (TS-D)



Contour Muntin Bar

Aluminum: Painted ~~Mill Finish, Clear & Color In™ Anodized~~



TOLERANCE
 A, ± .005 (.127mm)
 B, ± .005 (.127mm)

SPECIAL NOTICE

Cleaning and Handling of Muntin Bar

We recommend muntin bar to be wiped clean before installation into an insulating glass unit. A household grade liquid cleaner may be used for this purpose.

To avoid breakdown of painted surfaces, do not use M.E.K., Triethane, Alcohol or like substances for the cleaning of painted muntin bar.

When machining and processing muntin bar in your plant, keep saw tables and work areas free of saw cut filings to avoid scratching the painted surfaces.

Packaging Information			
Muntin Bar Size Millimeter	Part #	Pieces Per Shipping Carton 12' 8" Lengths	Lineal Feet Per Shipping Carton 12' 8" Lengths
5.5 x 18	124040	170	2153
8 x 18	123911	120	1520
8 x 25	124307	84	1064

Specification In Inches		
Muntin Bar Size Millimeter	A	B
5.5 x 18	.217	.709
8 x 18	.315	.709
8 x 25	.315	.984

Part numbers shown are standard white color.

Available in solid & tutone colors.

Please see Color Selection Chart located in front of catalog.

Material Thickness:

.016: 5.5 x 18mm and 8 x 18mm.

.0185: 8 x 25mm.

Note: Available in pre-cut lengths and pre-notched; tutone and post-painted. Custom colors also available.

Painted seam available in limited colors upon request.

	Report #:	L3930-116-45
	Date:	3/29/2021
	Verified by:	<i>Jonathan Spence</i>



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

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

TEST REPORT FOR ALUMINTECHNO, JLLC

Report No: L3930.01-116-45 R1

Date: 04/28/21

SECTION 8

REVISION LOG

REVISION #	DATE	PAGES	REVISION
.01 R0	04/15/21	N/A	Original report issue.
.01 R1	04/28/21	N/A	Revise options 8,10,11,13,18,19.