



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

(Revised)

Rendered to: ALUMINTECHNO JLLC

SERIES/MODEL: ALTW72 DA

Report Number: H0033.01-116-45 Original Report Date: 03/27/18

Revised Report Date: 04/13/18





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

(Revised)

Rendered to: ALUMINTECHNO JLLC Selitskogo Str.12-211

220075 FEZ, Minsk Minsk Region, Belarus

Report Number: H0033.01-116-45 Simulation Date: 03/27/18 Original Report Date: 03/27/18 Revised Report Date: 04/13/18

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 59.0

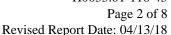
Simulations Specimen Description:

Series/Model: ALTW72 DA

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.

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.

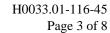
	No Dividers	Dividers < 1	Dividers > 1
SHGC0	0.006099	0.008824	0.011390
SHGC1	0.753020	0.673135	0.597930
VT0	0.000000	0.000000	0.000000
VT1	0.746920	0.664311	0.586541

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.

Product Line	Report Number
None	-







Revised Report Date: 04/13/18

Spacer Option Description

	Sealant		
Spacer Type	Primary	Secondary	Code
Aluminum Spacer	Butyl Rubber	Butyl Rubber	A1-D
Thermix Spacer	Butyl Rubber	Silicone	TS-D

Grid Option Description

Grid Size	Grid Type	Grid Pattern
None	-	-

Reinforcement Option Description

Location	Material
None	-

Gas Filling Technique Description

Fill Type	Method
90% Argon	Evacuated Chamber
97 % Argon	Evacuated Chamber

Edge-of-Glass Construction

Interior Condition	Aluminum bead with EPDM Gasket
Exterior Condition	Aluminum leg with EPDM Gasket

Weatherstripping

Туре	Quantity	Location
EPDM Gasket	1	Sash and Frame Perimeter

Frame/Sash Materials Finish

Interior	Aluminum (Painted)
Exterior	Aluminum (Painted)





Page 4 of 8 Revised Report Date: 04/13/18

NFRC 100/200/500 Summary Sheet ALTW72 DA

_								N 12 DA						
Œ	Pane Thickness 1	Gap Width 1	Pane Thickness 2	Gap Width 2	Pane Thickness 3	Gap Width 3	Pane Thickness 4	Gap Fill	Vicibi	Low-e (Surface#)	anga (I	Tint	Spacer	Grid Type
	U	J-Facto	or	Solai		ids (None		, ,		Grids (None / <1		(1)	Resist	
1	SB60/A	Air/Cle	ar (6m	m-6mm) 1" IG									
	0.223	0.500	0.223					AIR		0.035(#2)		CL	TS-D	N
	U-Facto	r	0.33	SHGC ((N)			0.30	VT (N)		0.53		CR	57
	Azuria	/Air/SI	360 (6r	nm-6mi	m) 1" I	G			•					
	0.223	0.500	0.223					AIR		0.035(#3)		ΑZ	TS-D	N
	U-Facto	r	0.33	SHGC ((N)			0.24	VT (N)		0.41		CR	57
	VistaC	ool-Az	uria/Ai	ir/SB60	(6mm-	6mm) 1	1" IG		•					
	0.223	0.500	0.223					AIR		0.035(#3)		ΑZ	TS-D	N
	U-Facto	r	0.33	SHGC ((N)			0.20	VT (N)		0.31		CR	57
2	SB60/A	Argon9	0/Clea	r (6mm	-6mm)	1" IG								
	0.223	0.500	0.223					ARG90		0.035(#2)		CL	TS-D	N
	U-Facto	r	0.30	SHGC ((N)			0.29	VT (N)		0.53		CR	59
	SB60-S	Solargr	ay/Arg	on90/C	lear (61	nm-6m	m) 1" I	G						
	0.223	0.500	0.223					ARG90		0.035(#2)		GY	TS-D	N
	U-Facto	r	0.30	SHGC ((N)			0.19	VT (N)		0.26		CR	59
3	SB67/A	Argon9	0/Clea	r (6mm	-6mm)	1" IG			•					
	0.223	0.500	0.223					ARG90		0.035(#2)		CL	TS-D	N
	U-Facto		0.30	SHGC (0.22	VT (N)		0.40		CR	59
4				r (6mm	-6mm)	1" IG			1					
	0.223	0.500	0.223					ARG90		0.018(#2)		CL	TS-D	N
	U-Facto		0.30	SHGC (` '			0.21	VT (N)		0.48		CR	60
5				ear (6m	nm-6mr	n) 28m	m IG		•					
	0.230	0.630	0.221					ARG90		0.026(#2)		CL	TS-D	N
	U-Facto		0.30	SHGC (0.20	VT (N)		0.45		CR	62
6				Clear (6	mm-6n	nm) 28r	nm IG	1	1					
	0.230	0.630	0.221					ARG90		0.022(#2)		CL	TS-D	N
<u></u>	U-Facto		0.30	SHGC (0.26	VT (N)		0.52		CR	62
7		_		Clear (6	mm-6n	nm) 28r	nm IG		1				<u> </u>	
		0.630						ARG90		0.025(#2)		CL	TS-D	N
	U-Facto	r	0.30	SHGC ((N)			0.25	VT (N)		0.51		CR	62





Revised Report Date: 04/13/18

NFRC 100/200/500 Summary Sheet ALTW72 DA

								T				
Œ	Pane Thickness 1 Gap Width 1	Pane Thickness 2	Sap Width 2	Pane Thickness 3	Gap Width 3	Pane Thickness 4	Gap Fill	Cow-e (Surface#)	tance (V	Tint Tint	Spacer	
	0 - 00	-		Gri	ids (None	/ <1 / >=1)	Grids (None / <	1 / >=1)		Resist	tance
8	SN 70-41/A	rgon90/0	Clear (6	mm-6n	nm) 281	nm IG						
	0.230 0.63	0.221					ARG90	0.037(#2)		CL	TS-D	N
	U-Factor	0.30	SHGC ((N)			0.29	VT (N)	0.52		CR	61
9	SN 70-41/A	ir/Clear	(6mm-6	5mm) 2	8mm IC	3						
	0.230 0.63	0.221					AIR	0.037(#2)		CL	TS-D	N
	U-Factor	0.34	SHGC ((N)			0.29	VT (N)	0.52		CR	58
10	SN 70-35/A	rgon97/S	SN 70-3	87 UC/A	Argon9	7/Clear	(6mm-6mn	n-6mm) 48mm IG				
	0.230 0.55	1 0.230	0.630	0.221			ARG97	0.025(#2) / 0.02	5(#4)	CL	TS-D	N
	U-Factor	0.19	SHGC ((N)			0.20	VT (N)	0.40		CR	69
11	IPlus Energy	y N/Argo	on90/ L	ami 44.	1 (6mn	n-8mm)	32mm IG					
	0.230 0.70	9 0.318					ARG90	0.033(#2)		CL	TS-D	N
							1111070	0.000(2)				
	U-Factor	0.30	SHGC ((N)			0.28	VT (N)	0.53	02	CR	61
12	U-Factor IPlus Energ				ım-6mr	n) 28m	0.28		0.53	02		
12		y N/Argo	on90/C1		nm-6mr	n) 28m	0.28		0.53	CL		
12	IPlus Energ	y N/Argo	on90/C1	ear (6n	nm-6mr	m) 28m	0.28 m IG	VT (N)	0.53		CR	61
12	IPlus Energy 0.230 0.63	y N/Argo 0 0.230 0.30	on90/Cl SHGC (ear (6m			0.28 m IG ARG90 0.29	VT (N) 0.033(#2)			CR TS-D	61 N
	IPlus Energy 0.230 0.63 U-Factor	y N/Argo 0 0.230 0.30 ral/Argor	sHGC (n90/Cle	ear (6m			0.28 m IG ARG90 0.29	VT (N) 0.033(#2)			CR TS-D CR	61 N
13	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutro 0.230 0.63 U-Factor	v N/Argo 0 0.230 0.30 ral/Argo 0 0.230 0.30	shgc (ear (6m (N) ar (6m)	n-6mm) 28mn	0.28 m IG ARG90 0.29 n IG ARG90	VT (N) 0.033(#2) VT (N) 0.029(#2) VT (N)	0.54	CL	CR TS-D CR	N 62
	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutro 0.230 0.63 U-Factor	v N/Argo 0 0.230 0.30 ral/Argo 0 0.230 0.30	shgc (ear (6m (N) ar (6m)	n-6mm) 28mn	0.28 m IG ARG90 0.29 n IG ARG90	VT (N) 0.033(#2) VT (N) 0.029(#2)	0.54	CL	CR TS-D CR TS-D	N 62
13	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutro 0.230 0.63 U-Factor	v N/Argo 0 0.230 0.30 ral/Argo 0 0.230 0.30 ral/Argo	sHGC (n97/Cle	ear (6m (N) ar (6m) (N) ar/Argo	n-6mm) 28mn	0.28 m IG ARG90 0.29 n IG ARG90	VT (N) 0.033(#2) VT (N) 0.029(#2) VT (N)	0.54 0.51 n IG	CL	CR TS-D CR TS-D	N 62
13	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutron U-Factor Ipasol Neutron 0.230 0.63 U-Factor U-Factor 0.230 0.63 U-Factor U-F	v N/Argo 0 0.230 0.30 ral/Argo 0 0.230 0.30 ral/Argo 0 0.230 0.230	sHGC (n97/Cle 0.709 sHGC (ear (6m (N) ar (6m) (N) ar/Argo (0.230 (N)	n-6mm on97/IP) 28mn	0.28 m IG ARG90 0.29 n IG ARG90 0.26 vanced (6mm ARG97	VT (N) 0.033(#2) VT (N) 0.029(#2) VT (N) m-6mm-6mm) 52mn	0.54 0.51 n IG	CL	TS-D CR TS-D CR	N 62 N 62
13	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutron Ipasol Neutron Ipasol Neutron Ipasol Neutron 0.230 0.63 U-Factor Ipasol Neutron 0.230 0.63 U-Factor Ipasol Neutron Ipas	v N/Argo 0 0.230 0.30 ral/Argo 0 0.230 0.30 ral/Argo 0 0.230 0.230	sHGC (n97/Cle 0.709 sHGC (ear (6m (N) ar (6m) (N) ar/Argo (0.230 (N)	n-6mm on97/IP) 28mn	0.28 m IG ARG90 0.29 n IG ARG90 0.26 vanced (6mm ARG97	VT (N) 0.033(#2) VT (N) 0.029(#2) VT (N) m-6mm-6mm) 52mm 0.029(#2) / 0.02	0.54 0.51 n IG 2(#5)	CL	TS-D CR TS-D CR	N 62 N 62 N
13	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutron U-Factor Ipasol Neutron 0.230 0.63 U-Factor U-Factor 0.230 0.63 U-Factor U-F	v N/Argo 0 0.230 0.30 ral/Argor 0 0.230 0.30 ral/Argor 0 0.230 0.19 cced/Arg	sHGC (n97/Cle 0.709 sHGC (on90/Te 0.709 sHGC (ear (6m (N) ar (6m) (N) ar/Argo (0.230 (N)	n-6mm on97/IP) 28mn	0.28 m IG ARG90 0.29 n IG ARG90 0.26 vanced (6mm ARG97	VT (N) 0.033(#2) VT (N) 0.029(#2) VT (N) m-6mm-6mm) 52mm 0.029(#2) / 0.02	0.54 0.51 n IG 2(#5) 0.44	CL	TS-D CR TS-D CR	N 62 N 62
13	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutron 0.230 0.63 U-Factor IPlus Advaron 0.230 0.63 U-Factor IPlus Advaron 0.230 0.63 U-Factor U-Factor U-Factor IPlus Advaron 0.230 0.63 U-Factor IPlus Advaron IPlus	v N/Argo 0 0.230 0 0.230 0 0.230 0 0.230 0 0.230 0 0.230 0 0.29 0 0.309 0 0.309	sHGC (n97/Cle 0.709 sHGC (sHGC	(N) ar (6mi ar/Argo 0.230 (N) op N+T	m-6mm) 28mn Plus Adv	0.28 m IG ARG90 0.29 n IG ARG90 0.26 vanced (6mm ARG97 0.22 30mm IG ARG90 0.35	VT (N) 0.033(#2) VT (N) 0.029(#2) VT (N) m-6mm-6mm) 52mm 0.029(#2) / 0.02 VT (N)	0.54 0.51 n IG 2(#5) 0.44	CL CL	TS-D CR TS-D CR TS-D CR	N 62 N 62 N 68
13	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutron 0.230 0.63 U-Factor Ipasol Neutron 0.230 0.63 U-Factor IPlus Advar 0.230 0.63 0.63	v N/Argo 0 0.230 0 0.230 0 0.230 0 0.230 0 0.230 0 0.230 0 0.29 0 0.309 0 0.309	sHGC (n97/Cle 0.709 sHGC (sHGC	(N) ar (6mi ar/Argo 0.230 (N) op N+T	m-6mm) 28mn Plus Adv	0.28 m IG ARG90 0.29 n IG ARG90 0.26 vanced (6mm ARG97 0.22 30mm IG ARG90 0.35	VT (N) 0.033(#2) VT (N) 0.029(#2) VT (N) m-6mm-6mm) 52mm 0.029(#2) / 0.02 VT (N) 0.022(#2) / 0.04	0.54 0.51 n IG 2(#5) 0.44	CL CL	TS-D CR TS-D CR TS-D CR	N 62 N 62 N 68 N
13 14	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutron 0.230 0.63 U-Factor IPlus Advaron 0.230 0.63 U-Factor IPlus Advaron 0.230 0.63 U-Factor U-Factor U-Factor IPlus Advaron 0.230 0.63 U-Factor IPlus Advaron IPlus	v N/Argo 0 0.230 0.30 cal/Argo 0 0.230 0.30 cal/Argo 0 0.230 0.19 0 0.309 0.29 rgon97/1	SHGC (nn97/Cle 0.709 SHGC (Top N+	(N) ar (6mi ar/Argo 0.230 (N) op N+T	m-6mm) 28mn Plus Adv	0.28 m IG ARG90 0.29 n IG ARG90 0.26 vanced (6mm ARG97 0.22 30mm IG ARG90 0.35	VT (N) 0.033(#2) VT (N) 0.029(#2) VT (N) m-6mm-6mm) 52mm 0.029(#2) / 0.02 VT (N) 0.022(#2) / 0.04	0.54 0.51 n IG 2(#5) 0.44 e(#3) 0.54	CL CL	TS-D CR TS-D CR TS-D CR	N 62 N 62 N 68 N
13 14 15	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutron 0.230 0.63 U-Factor IPlus Advaron 0.230 0.63 U-Factor IPlus Advaron 0.230 0.63 U-Factor Top N+T/A	v N/Argo 0 0.230 0.30 cal/Argo 0 0.230 0.30 cal/Argo 0 0.230 0.19 0 0.309 0.29 rgon97/1	SHGC (nn97/Cle 0.709 SHGC (Top N+	(N) ar (6mi ar/Argo 0.230 (N) op N+T	m-6mm) 28mn Plus Adv	0.28 m IG ARG90 0.29 n IG ARG90 0.26 vanced (6mm ARG97 0.22 30mm IG ARG90 0.35 IG	VT (N) 0.033(#2) VT (N) 0.029(#2) VT (N) m-6mm-6mm) 52mm 0.029(#2) / 0.02 VT (N) 0.022(#2) / 0.04 VT (N)	0.54 0.51 n IG 2(#5) 0.44 e(#3) 0.54	CL	TS-D CR TS-D CR TS-D CR TS-D CR	N 62 N 62 N 68 N 60
13 14	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutro 0.230 0.63 U-Factor IPlus Advar 0.230 0.63 U-Factor IPlus Advar 0.230 0.63 U-Factor Top N+T/A 0.230 0.63 0.63 U-Factor Top N+T/A 0.230 0.63 U-Factor Top N+T/A U-Factor U-Factor Top N+T/A U-Factor U-Factor Top N+T/A U-Factor U-Factor U-Factor Top N+T/A U-Factor U-	v N/Argo 0 0.230 0.30 ral/Argor 0 0.230 0.30 ral/Argor 0 0.230 0.19 0 0.309 0 0.309 0 0.309 0 0.309 0 0.230 0 0.230 0 0.230	shgc (nn97/Cle 0.709 shgc (Top N+')	ear (6m (N) ar (6m) (N) ar/Argo (0.230 (N) op N+T (N) T (6m)	m-6mm on97/IP	28mm) -8mm)	0.28 m IG ARG90 0.29 n IG ARG90 0.26 vanced (6mm ARG97 0.22 30mm IG ARG90 0.35 IG ARG97 0.39	VT (N) 0.033(#2) VT (N) 0.029(#2) VT (N) m-6mm-6mm) 52mm 0.029(#2) / 0.02 VT (N) 0.022(#2) / 0.04 VT (N) 0.04(#2) / 0.04 VT (N)	0.54 0.51 n IG 2(#5) 0.44 0.54 (#3)	CL	TS-D CR TS-D CR TS-D CR TS-D CR	N 62 N 62 N 68 N 60 N
13 14 15	IPlus Energy 0.230 0.63 U-Factor Ipasol Neutron 0.230 0.63 U-Factor IPlus Advaron 0.230 0.63 U-Factor Top N+T/A 0.230 0.63 U-Factor U-Factor Top N+T/A 0.230 0.63 U-Factor U-Fac	v N/Argo 0 0.230 0.30 ral/Argor 0 0.230 0.30 ral/Argor 0 0.230 0.19 0.029 rgon97/7 0 0.230 0.29 nm Arg/	SHGC (n97/Cle 0.709 SHGC (Top N+') SHGC (TopN+/	ear (6m (N) ar (6m) (N) ar/Argo (0.230 (N) op N+T (N) T (6m)	m-6mm on97/IP (6mm n-8mm)) 28mn Plus Adv -8mm) 30mm	0.28 m IG ARG90 0.29 n IG ARG90 0.26 vanced (6mm ARG97 0.22 30mm IG ARG90 0.35 IG ARG97 0.39 4mm Arg/Te	VT (N) 0.033(#2) VT (N) 0.029(#2) VT (N) m-6mm-6mm) 52mm 0.029(#2) / 0.02 VT (N) 0.022(#2) / 0.04 VT (N) 0.04(#2) / 0.04 VT (N)	0.54 0.51 n IG 2(#5) 0.44 0.54 (#3) 0.57	CL	TS-D CR TS-D CR TS-D CR TS-D CR	N 62 N 62 N 68 N 60 N





H0033.01-116-45 Page 6 of 8

Revised Report Date: 04/13/18

NFRC 100/200/500 Summary Sheet

ALTW72 DA

n n	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	
18	18 Suncool 70/35 ProT/Argon97/Stratobel 44.1 (6mm-9mm) 35mm IG												
	0.230	0.787	0.318					ARG97	0.021(#2)	CL	TS-D	N
	U-Facto	r	0.30	SHGC (N)			0.27	VT (N)	0.52		CR	61





H0033.01-116-45 Page 7 of 8

Revised Report Date: 04/13/18

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.

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 March 27, 2018.

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:
Dale C. White	Eric S. Leitner
G: 14: TE 1 : :	
Simulation Technician	Simulation Technician Team Leader

DCW:dcw H0033.01-116-45

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

Appendix A: Drawings and Bills of Material





H0033.01-116-45 Page 8 of 8

Revised Report Date: 04/13/18

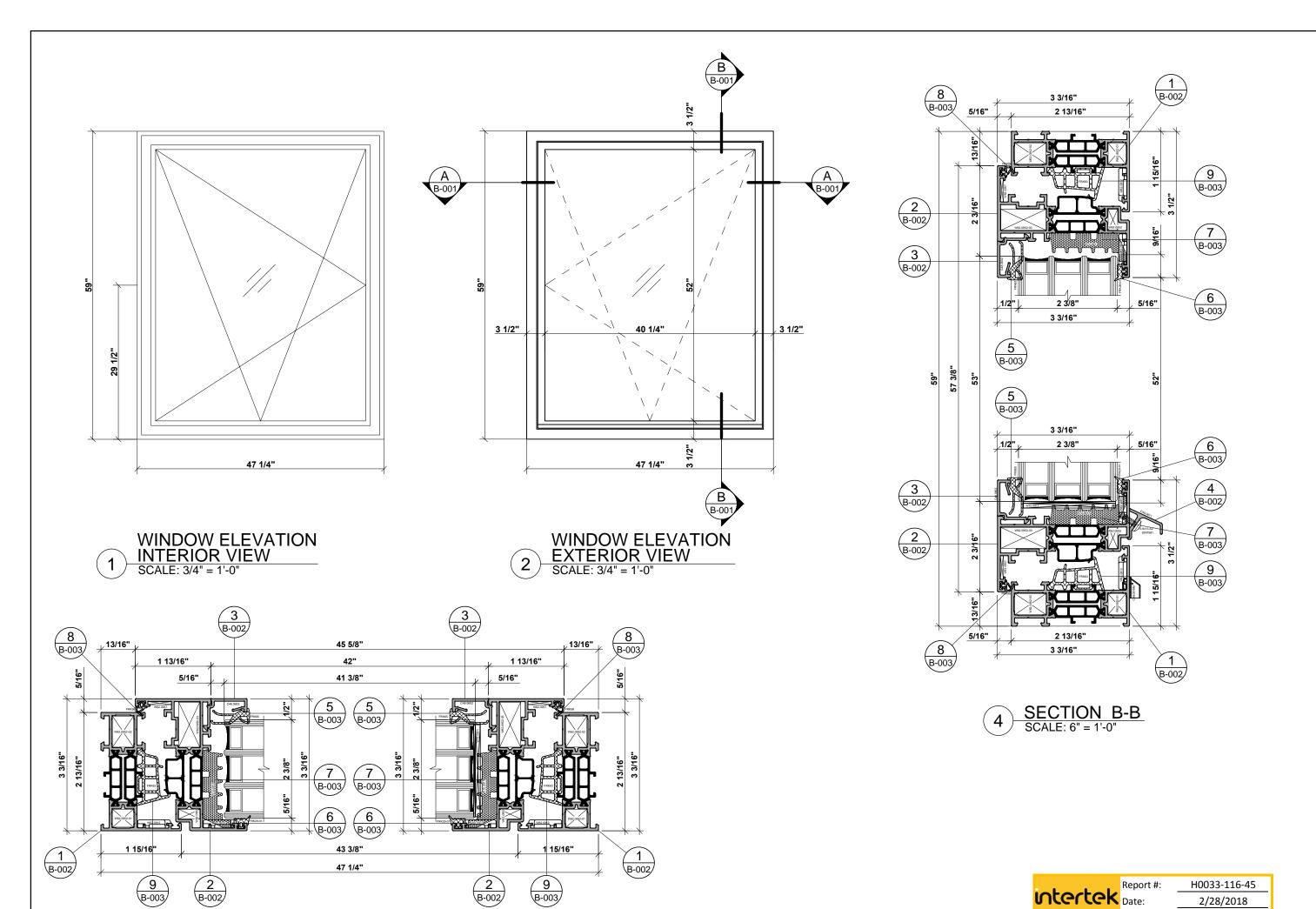
Revision Log

Rev.#	Date	Page(s)	Revision (s)
.01R0	03/27/18	All	Original report issued to AluminTechno JLLC
.01R1	04/13/18	All	Revised report to correct glass on option 18, client name, and address





All drawings and Bills of Material used to simulate this product are enclosed in this Appendix



SECTION A-A

SCALE: 6" = 1'-0"

CLIENT: AluminTechno ARCHITECT: PREPARED BY: PROJECT ADDRESS: **THERMAL** PERFORMANCE TEST 130 Derry Court York, PA 17406 Intertek DATE REVISION **APPROVED** ALL RIGHTS RESERVED ALL DRAWINGS SPECIFICATIONS AND COPIES THERE OF FURNISHED BY CAD SHOPS AND SHALL REMAIN ITS PROPERTY. THEY ARE NOT TO BE USED ON THIS OR ANY OTHER PROJECT UNLESS WRITTEN PERMISSION IS GIVEN. ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION. **ASSEMBLY DRAWING AND SECTIONS** DIMENSIONS FIELD VERIFIED DATE: 02.28.2018 DRAWN BY: MK

CHECKED BY: AA

DRAWING No:

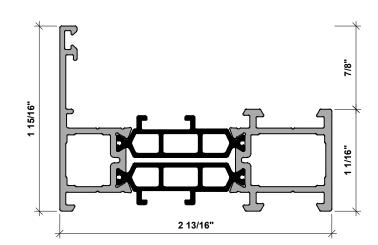
Verified by:

B-001.00

SIZE: B

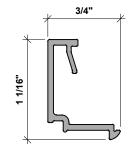
J-00 1.0

01 OF 05



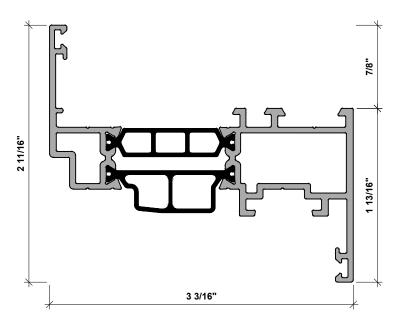
Material: Extruded Aluminum with Thermal Break

HEAD, SILL, SIDE JAMBS MOLDING EXTRUSION W72.0101E SCALE: 1'-0" = 1'-0"



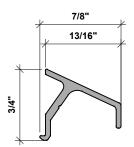
Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0602 SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum with Thermal Break

2 SASH MOLDING EXTRUSION W72.0221E SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum

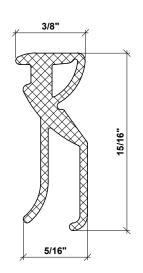
WATER DEFLECTOR EXTRUSION C48.0611 SCALE: 1'-0" = 1'-0"

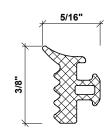


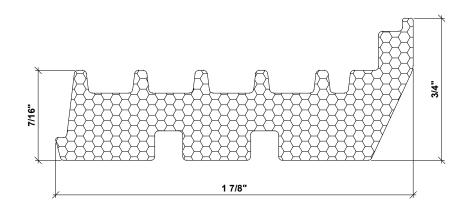
Alumi	nTechn	O EMS
	ARCHITECT:	
	PREPARED BY:	
C	AD	3
	OJECT ADDRESS:	
	HERMAL RMANCE 1	TEST
130 P <i>I</i>	Derry Court York A 17406 Intertek	,
DATE	REVISION	#
		_
		_
		_
		_
A CLIENT'S SIGNATURE	PPROVED	
DATE	_//	
AL	L RIGHTS RESERVED	
THERE OF FURN REMAIN ITS PRO	SS SPECIFICATIONS A ISHED BY CAD SHOP: PERTY. THEY ARE NO OTHER PROJECT UNI RMISSION IS GIVEN.	S AND SHA
	SPECIAL NOTES:	
ALL DIMENSION	OT SCALE DRAWING S TO BE FIELD VERIFI ANY FABRICATION.	
INDIV	DRAWING TITLE: IDUAL FRA	ME
COMPON	NENTS SEC	TION
REVIEWE	DATE:	AGER
NOTE:		
	NSIONS FIELD VERIFI	ED
NOTE:	DATE:	
DATE: 02.2	28.2018	
DRAWN BY	Y: MK	
CHECKED E	BY: AA	
DRAWING	No:	SIZE:
B-00	2.00	

02 OF 05

CLIENT:







Material: Rubber

5 INTERIOR GASKET FRK65
SCALE: 2'-0" = 1'-0"

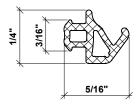
Rubber is EPDM Rubber

Material: Rubber

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

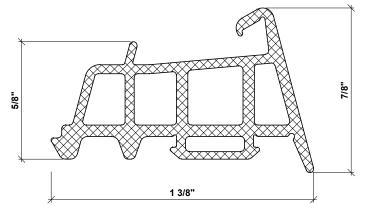
Material: PU

7 FOAM INSULATION W72.0911 SCALE: 2'-0" = 1'-0"



Material: Rubber

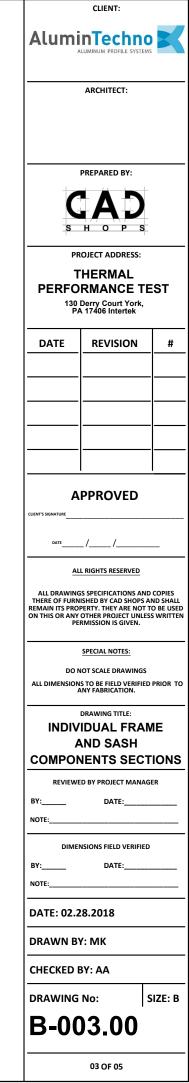
8 INTERIOR GASKET FRK98 SCALE: 2'-0" = 1'-0"

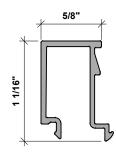


Material: Rubber

9 FRAME GASKET FRK63 SCALE: 2'-0" = 1'-0"

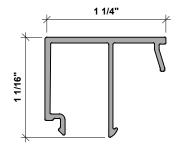






Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0604 FOR 52 MM INFILL SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0608 FOR 34 MM INFILL SCALE: 1'-0" = 1'-0"

Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0605 FOR 48 MM INFILL SCALE: 1'-0" = 1'-0"

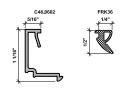
Report #: H0033-116-45 intertek Date: 2/28/2018 Verified by:

AluminTechno ALUMINUM PROFILE SYSTEMS					
	ARCHITECT:				
	PREPARED BY:				
S	CAD				
PROJECT ADDRESS: THERMAL PERFORMANCE TEST 130 Derry Court York, PA 17406 Intertek					
DATE	REVISION	#			
		<u> </u>			
Al CLIENT'S SIGNATURE	PPROVED				
DATE					
ALL	L RIGHTS RESERVED				
ALL DRAWINGS SPECIFICATIONS AND COPIES THERE OF FURNISHED BY CAD SHOPS AND SHALL REMAIN ITS PROPERTY. THEY ARE NOT TO BE USED ON THIS OR ANY OTHER PROJECT UNLESS WRITTEN PERMISSION IS GIVEN.					
	SPECIAL NOTES:				
ALL DIMENSIONS	OT SCALE DRAWINGS S TO BE FIELD VERIFIED NY FABRICATION.	PRIOR TO			
-	DRAWING TITLE:				
VARIOUS	GLAZING B	EADS			
REVIEWE	D BY PROJECT MANAG	ER			
NOTE:	DATE:				
DIMEN	DIMENSIONS FIELD VERIFIED				
BY: DATE:					
DATE: 02.28.2018					
	DRAWN BY: MK				
CHECKED BY: AA					
DRAWING No: SIZE: B					
B-00	B-005.00				

05 OF 05

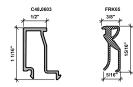
CLIENT:





Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0602 WITH RUBBER GASKET FRK36 FOR 52 MM INFILL SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0603 WITH RUBBER GASKET FRK65 FOR 48 MM INFILL SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0604 FOR 52 MM INFILL SCALE: 1'-0" = 1'-0"



Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0605

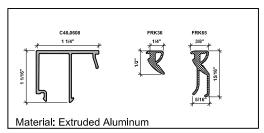
FOR 48 MM INFILL SCALE: 1'-0" = 1'-0"



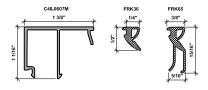


Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0607 WITH RUBBER GASKET FRK36 OR FRK65 FOR 30-32 MM INFILL

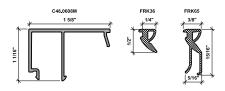


GLAZING BEAD EXTRUSION C48.0608 WITH RUBBER GASKET FRK36, FRK65 OR FRK67 FOR 25-28 MM INFILL



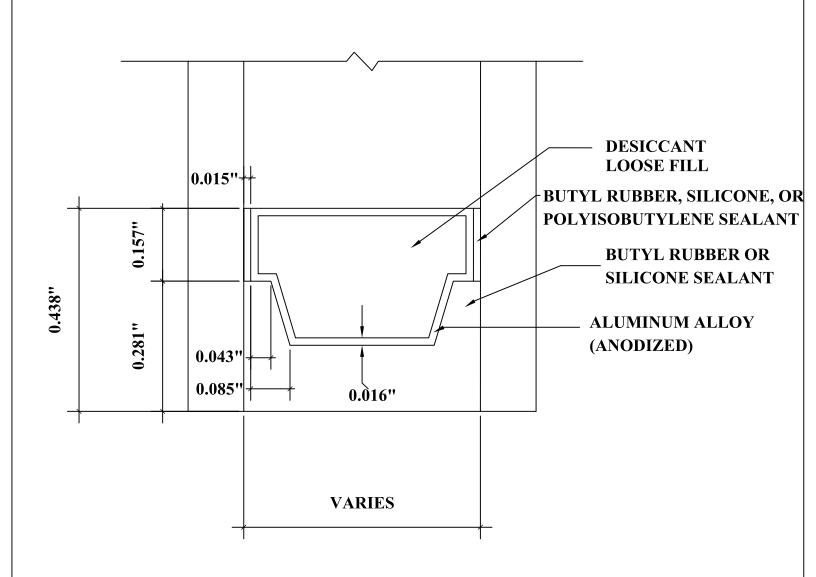
Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0607M WITH RUBBER GASKET FRK36, FRK65 OR FRK67 FOR 30-32 MM INFILL SCALE: 1-0" = 1-0"



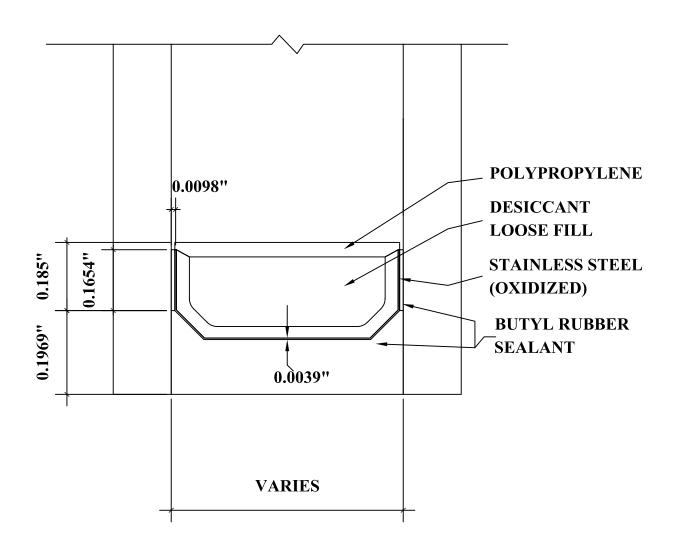
Material: Extruded Aluminum

GLAZING BEAD EXTRUSION C48.0608M WITH RUBBER GASKET FRK36, FRK65 OR FRK67 FOR 25-28 MM INFILL SCALE: 1-0° = 1-0°



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





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

Report #:
Date:
Verified by

H0033-116-45 2/28/2018

Verified by: