

EAGON WINDOWS & DOORS CO., LTD.

COMPUTER SIMULATION REPORT

SCOPE OF WORK

EDS 75 IW / EDS 95 IW SWING DOOR - NFRC 100/200/500

REPORT NUMBER

M3775.02-116-45 R1

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07/22/21

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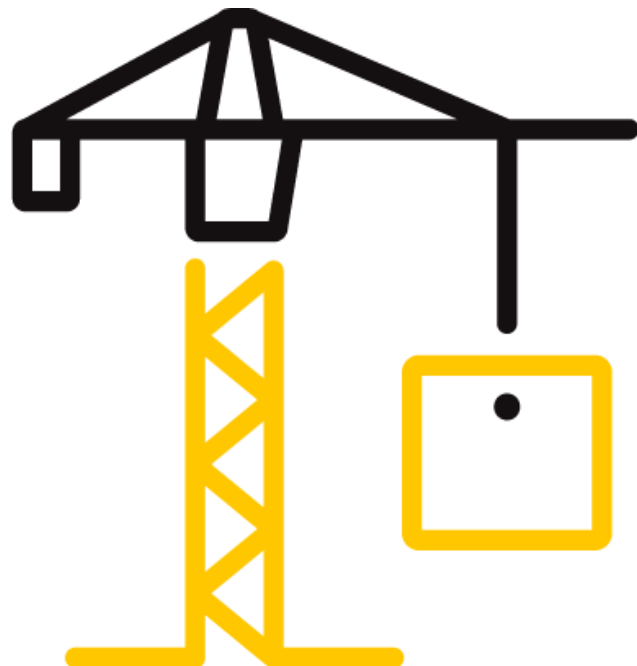
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TEST REPORT FOR EAGON WINDOWS & DOORS CO., LTD.

Report No: M3775.02-116-45 R1

Date: 12/20/21

REPORT ISSUED TO

EAGON WINDOWS & DOORS CO., LTD.

91 Yeomjeon-ro

Incheon, Enter State 22107

SECTION 1

SUMMARY

SERIES/MODEL: EDS 75 IW / EDS 95 IW Swing Door

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: Richard A. McVicker III

TITLE: Simulation Technician

SIGNATURE:

DATE: 12/20/21

RAM:ram

REVIEWED BY: Eric S. Leitner

TITLE: Manager - Simulations
and Thermal Testing, SIRC

SIGNATURE:

DATE: 12/20/21

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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 81.0

Modeling Assumptions / Technical Interpretations

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

- 1) To prevent air infiltration, tape was applied to all interior sash crack locations.
- 2) The EDS 75 IW and EDS 95 IW Swing Door can be within the same product line according to ANSI/NFRC 100-2020 Section 4.2.1.

SECTION 4

SIMULATION SPECIMEN DESCRIPTION

SERIES/MODEL	EDS 75 IW / EDS 95 IW Swing Door
PRODUCT TYPE	Swinging Door, Single Leaf Entrance Door
FRAME MATERIAL	AT - Aluminum w/ Thermal Breaks - All Members
SASH MATERIAL	AT - Aluminum w/ Thermal Breaks - All Members
STANDARD SIZE	960mm x 2090mm

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SIMULATION SPECIMEN DESCRIPTION

SPACER OPTIONS			
TYPE	PRIMARY SEAL	SECONDARY SEAL	CODE
Cardinal Endur Spacer	Royal PIB	Silicone	SS-D
Technoform TGI Spacer	PIB	Silicone	TS-D
Quanex Premium Super Spacer	Butyl Rubber	None	ZF-S
Allmetal LPX Spacer	Silicone	Silicone	A1-D

GRID OPTIONS		
GRID SIZE	GRID TYPE	GRID PATTERN
None	-	-

REINFORCEMENT OPTIONS	
LOCATION	MATERIAL
None	-

GAS FILLING TECHNIQUE	
FILL TYPE	METHOD
90% Argon	Single probe

EDGE-OF-GLASS CONSTRUCTION	
INTERIOR CONDITION	EPDM gasket between glazing bead and glass
EXTERIOR CONDITION	EPDM gasket between sash leg and glass

WEATHERSTRIPPING		
TYPE	QUANTITY	LOCATION
EPDM gasket	1 row	Sash and frame perimeter
EPDM gasket	1 row	Frame (EDS 95 IW only)

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	0.016054	0.018864	0.021459
SHGC1	0.609837	0.526970	0.450401
VT0	0.000000	0.000000	0.000000
VT1	0.593782	0.508106	0.428942

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

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

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SECTION 6

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
1	EDS 75 IW: E366 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.33			SHGC(N) 0.17				VT(N) 0.36		CR 48		
2	EDS 75 IW: E270 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.33			SHGC(N) 0.22				VT(N) 0.39		CR 48		
3	EDS 75 IW: E180 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.068(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.34			SHGC(N) 0.36				VT(N) 0.45		CR 47		
4	EDS 75 IW: E366 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					AIR	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.35			SHGC(N) 0.18				VT(N) 0.36		CR 45		
5	EDS 75 IW: SB70 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.018(#2)	CL	TS-D	N
	U-Factor 0.36			SHGC(N) 0.18				VT(N) 0.38		CR 55		
6	EDS 75 IW: SB60 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	TS-D	N
	U-Factor 0.37			SHGC(N) 0.25				VT(N) 0.42		CR 55		
7	EDS 75 IW: E270 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.33			SHGC(N) 0.22				VT(N) 0.39		CR 48		
8	EDS 75 IW: E366 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.020(#2)	CL	SS-D	N
	U-Factor 0.36			SHGC(N) 0.18				VT(N) 0.37		CR 55		
9	EDS 75 IW: E270 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.035(#2)	CL	SS-D	N
	U-Factor 0.36			SHGC(N) 0.23				VT(N) 0.40		CR 55		
10	EDS 75 IW: E270 / air / clr / air / E180 (6mm/6mm/6mm) - 44mm IG											
	0.224	0.500	0.224	0.500	0.223			AIR	0.035(#2) / 0.068(#5)	CL	SS-D	N
	U-Factor 0.30			SHGC(N) 0.20				VT(N) 0.35		CR 54		

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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	EDS 75 IW: E366 / arg90 / clr / arg90 / i89 (6mm/6mm/6mm) - 44mm IG											
	0.224	0.500	0.224	0.500	0.223			ARG90	0.020(#2) / 0.149(#6)	CL	SS-D	N
	U-Factor 0.30			SHGC(N) 0.16				VT(N) 0.33		CR 54		
12	EDS 75 IW: SNX 62/27 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2)	CL	ZF-S	N
	U-Factor 0.36			SHGC(N) 0.17				VT(N) 0.37		CR 56		
13	EDS 75 IW: SNX 62/27 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.020(#2)	CL	ZF-S	N
	U-Factor 0.38			SHGC(N) 0.17				VT(N) 0.37		CR 55		
14	EDS 75 IW: SN68 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2)	CL	ZF-S	N
	U-Factor 0.36			SHGC(N) 0.19				VT(N) 0.34		CR 56		
15	EDS 75 IW: SNX 62/27 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2) / 0.198(#4)	CL	ZF-S	N
	U-Factor 0.33			SHGC(N) 0.17				VT(N) 0.35		CR 50		
16	EDS 75 IW: SN68 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2) / 0.198(#4)	CL	ZF-S	N
	U-Factor 0.33			SHGC(N) 0.18				VT(N) 0.33		CR 50		
17	EDS 75 IW: SNX 51/23 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2)	CL	A1-D	N
	U-Factor 0.40			SHGC(N) 0.15				VT(N) 0.30		CR 51		
18	EDS 75 IW: SNX 51/23 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2)	CL	A1-D	N
	U-Factor 0.38			SHGC(N) 0.15				VT(N) 0.30		CR 53		
19	EDS 75 IW: SNX 51/23 / air / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2) / 0.198(#4)	CL	A1-D	N
	U-Factor 0.37			SHGC(N) 0.15				VT(N) 0.29		CR 41		
20	EDS 75 IW: SNX 51/23 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2) / 0.198(#4)	CL	A1-D	N
	U-Factor 0.35			SHGC(N) 0.15				VT(N) 0.29		CR 44		

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
21	EDS 95 IW: E366 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.26			SHGC(N) 0.17				VT(N) 0.36		CR 50		
22	EDS 95 IW: E270 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.27			SHGC(N) 0.22				VT(N) 0.39		CR 49		
23	EDS 95 IW: E180 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.068(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.27			SHGC(N) 0.36				VT(N) 0.45		CR 48		
24	EDS 95 IW: E366 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					AIR	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.28			SHGC(N) 0.18				VT(N) 0.36		CR 46		
25	EDS 95 IW: SB70 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.018(#2)	CL	TS-D	N
	U-Factor 0.30			SHGC(N) 0.18				VT(N) 0.38		CR 59		
26	EDS 95 IW: SB60 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	TS-D	N
	U-Factor 0.30			SHGC(N) 0.25				VT(N) 0.42		CR 59		
27	EDS 95 IW: E270 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.27			SHGC(N) 0.22				VT(N) 0.39		CR 49		
28	EDS 95 IW: E366 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.020(#2)	CL	SS-D	N
	U-Factor 0.29			SHGC(N) 0.18				VT(N) 0.37		CR 61		
29	EDS 95 IW: E270 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.035(#2)	CL	SS-D	N
	U-Factor 0.30			SHGC(N) 0.23				VT(N) 0.40		CR 61		
30	EDS 95 IW: E270 / air / clr / air / E180 (6mm/6mm/6mm) - 44mm IG											
	0.224	0.500	0.224	0.500	0.223			AIR	0.035(#2) / 0.068(#5)	CL	SS-D	N
	U-Factor 0.24			SHGC(N) 0.20				VT(N) 0.35		CR 72		

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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)		
31	EDS 95 IW: E366 / arg90 / clr / arg90 / i89 (6mm/6mm/6mm) - 44mm IG											
	0.224	0.500	0.224	0.500	0.223			ARG90	0.020(#2) / 0.149(#6)	CL	SS-D	N
	U-Factor 0.23			SHGC(N) 0.16				VT(N) 0.33		CR 58		
32	EDS 95 IW: SNX 62/27 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2)	CL	ZF-S	N
	U-Factor 0.29			SHGC(N) 0.17				VT(N) 0.37		CR 62		
33	EDS 95 IW: SNX 62/27 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.020(#2)	CL	ZF-S	N
	U-Factor 0.31			SHGC(N) 0.17				VT(N) 0.37		CR 59		
34	EDS 95 IW: SN68 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2)	CL	ZF-S	N
	U-Factor 0.29			SHGC(N) 0.19				VT(N) 0.34		CR 62		
35	EDS 95 IW: SNX 62/27 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2) / 0.198(#4)	CL	ZF-S	N
	U-Factor 0.26			SHGC(N) 0.17				VT(N) 0.35		CR 52		
36	EDS 95 IW: SN68 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2) / 0.198(#4)	CL	ZF-S	N
	U-Factor 0.27			SHGC(N) 0.18				VT(N) 0.33		CR 51		
37	EDS 95 IW: SNX 51/23 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2)	CL	A1-D	N
	U-Factor 0.34			SHGC(N) 0.15				VT(N) 0.30		CR 52		
38	EDS 95 IW: SNX 51/23 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2)	CL	A1-D	N
	U-Factor 0.31			SHGC(N) 0.15				VT(N) 0.30		CR 54		
39	EDS 95 IW: SNX 51/23 / air / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2) / 0.198(#4)	CL	A1-D	N
	U-Factor 0.30			SHGC(N) 0.15				VT(N) 0.29		CR 42		
40	EDS 95 IW: SNX 51/23 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2) / 0.198(#4)	CL	A1-D	N
	U-Factor 0.29			SHGC(N) 0.15				VT(N) 0.29		CR 44		

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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)		
41	EDS 75 IW Foam: E366 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.29			SHGC(N) 0.17				VT(N) 0.36		CR 49		
42	EDS 75 IW Foam: E270 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.29			SHGC(N) 0.22				VT(N) 0.39		CR 49		
43	EDS 75 IW Foam: E180 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.068(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.29			SHGC(N) 0.36				VT(N) 0.45		CR 48		
44	EDS 75 IW Foam: E366 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					AIR	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.30			SHGC(N) 0.18				VT(N) 0.36		CR 46		
45	EDS 75 IW Foam: SB70 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.018(#2)	CL	TS-D	N
	U-Factor 0.32			SHGC(N) 0.18				VT(N) 0.38		CR 60		
46	EDS 75 IW Foam: SB60 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	TS-D	N
	U-Factor 0.32			SHGC(N) 0.25				VT(N) 0.42		CR 59		
47	EDS 75 IW Foam: E270 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.29			SHGC(N) 0.22				VT(N) 0.39		CR 49		
48	EDS 75 IW Foam: E366 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.020(#2)	CL	SS-D	N
	U-Factor 0.31			SHGC(N) 0.18				VT(N) 0.37		CR 61		
49	EDS 75 IW Foam: E270 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.035(#2)	CL	SS-D	N
	U-Factor 0.32			SHGC(N) 0.23				VT(N) 0.40		CR 61		
50	EDS 75 IW Foam: E270 / air / clr / air / E180 (6mm/6mm/6mm) - 44mm IG											
	0.224	0.500	0.224	0.500	0.223			AIR	0.035(#2) / 0.068(#5)	CL	SS-D	N
	U-Factor 0.26			SHGC(N) 0.20				VT(N) 0.35		CR 64		

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SECTION 6 (Continued)

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
51	EDS 75 IW Foam: E366 / arg90 / clr / arg90 / i89 (6mm/6mm/6mm) - 44mm IG											
	0.224	0.500	0.224	0.500	0.223			ARG90	0.020(#2) / 0.149(#6)	CL	SS-D	N
	U-Factor 0.25			SHGC(N) 0.16				VT(N) 0.33		CR 58		
52	EDS 75 IW Foam: SNX 62/27 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2)	CL	ZF-S	N
	U-Factor 0.31			SHGC(N) 0.17				VT(N) 0.37		CR 62		
53	EDS 75 IW Foam: SNX 62/27 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.020(#2)	CL	ZF-S	N
	U-Factor 0.34			SHGC(N) 0.17				VT(N) 0.37		CR 59		
54	EDS 75 IW Foam: SN68 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2)	CL	ZF-S	N
	U-Factor 0.31			SHGC(N) 0.19				VT(N) 0.34		CR 62		
55	EDS 75 IW Foam: SNX 62/27 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2) / 0.198(#4)	CL	ZF-S	N
	U-Factor 0.29			SHGC(N) 0.17				VT(N) 0.35		CR 52		
56	EDS 75 IW Foam: SN68 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2) / 0.198(#4)	CL	ZF-S	N
	U-Factor 0.29			SHGC(N) 0.18				VT(N) 0.33		CR 51		
57	EDS 75 IW Foam: SNX 51/23 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2)	CL	A1-D	N
	U-Factor 0.36			SHGC(N) 0.15				VT(N) 0.30		CR 52		
58	EDS 75 IW Foam: SNX 51/23 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2)	CL	A1-D	N
	U-Factor 0.34			SHGC(N) 0.15				VT(N) 0.30		CR 54		
59	EDS 75 IW Foam: SNX 51/23 / air / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2) / 0.198(#4)	CL	A1-D	N
	U-Factor 0.33			SHGC(N) 0.15				VT(N) 0.29		CR 42		
60	EDS 75 IW Foam: SNX 51/23 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2) / 0.198(#4)	CL	A1-D	N
	U-Factor 0.31			SHGC(N) 0.15				VT(N) 0.29		CR 44		

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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)		
61	EDS 95 IW VER2: E366 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.020(#2) / 0.149(#4)	CL	A1-D	N
	U-Factor 0.29			SHGC(N) 0.17				VT(N) 0.36		CR 55		
62	EDS 95 IW VER2: E270 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	A1-D	N
	U-Factor 0.29			SHGC(N) 0.22				VT(N) 0.39		CR 55		
63	EDS 95 IW VER2: E180 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.068(#2) / 0.149(#4)	CL	A1-D	N
	U-Factor 0.29			SHGC(N) 0.36				VT(N) 0.45		CR 53		
64	EDS 95 IW VER2: E366 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					AIR	0.020(#2) / 0.149(#4)	CL	A1-D	N
	U-Factor 0.30			SHGC(N) 0.18				VT(N) 0.36		CR 50		
65	EDS 95 IW VER2: SB70 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.018(#2)	CL	A1-D	N
	U-Factor 0.32			SHGC(N) 0.18				VT(N) 0.38		CR 49		
66	EDS 95 IW VER2: SB60 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	A1-D	N
	U-Factor 0.32			SHGC(N) 0.25				VT(N) 0.42		CR 52		
67	EDS 95 IW VER2: E270 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	A1-D	N
	U-Factor 0.29			SHGC(N) 0.22				VT(N) 0.39		CR 51		
68	EDS 95 IW VER2: E366 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.020(#2)	CL	A1-D	N
	U-Factor 0.32			SHGC(N) 0.18				VT(N) 0.37		CR 51		
69	EDS 95 IW VER2: E270 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.035(#2)	CL	A1-D	N
	U-Factor 0.32			SHGC(N) 0.23				VT(N) 0.40		CR 51		
70	EDS 95 IW VER2: SNX 62/27 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2)	CL	A1-D	N
	U-Factor 0.32			SHGC(N) 0.17				VT(N) 0.37		CR 50		

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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)		
71	EDS 95 IW VER2: SNX 62/27 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.020(#2)	CL	A1-D	N
	U-Factor 0.34			SHGC(N) 0.17				VT(N) 0.37		CR 57		
72	EDS 95 IW VER2: SN68 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2)	CL	A1-D	N
	U-Factor 0.32			SHGC(N) 0.19				VT(N) 0.34		CR 58		
73	EDS 95 IW VER2: SNX 62/27 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2) / 0.198(#4)	CL	A1-D	N
	U-Factor 0.29			SHGC(N) 0.17				VT(N) 0.35		CR 50		
74	EDS 95 IW VER2: SN68 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2) / 0.198(#4)	CL	A1-D	N
	U-Factor 0.29			SHGC(N) 0.18				VT(N) 0.33		CR 56		
75	EDS 95 IW VER2: SNX 51/23 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2)	CL	A1-D	N
	U-Factor 0.34			SHGC(N) 0.15				VT(N) 0.30		CR 57		
76	EDS 95 IW VER2: SNX 51/23 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2)	CL	A1-D	N
	U-Factor 0.32			SHGC(N) 0.15				VT(N) 0.30		CR 62		
77	EDS 95 IW VER2: SNX 51/23 / air / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2) / 0.198(#4)	CL	A1-D	N
	U-Factor 0.31			SHGC(N) 0.15				VT(N) 0.29		CR 51		
78	EDS 95 IW VER2: SNX 51/23 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2) / 0.198(#4)	CL	A1-D	N
	U-Factor 0.29			SHGC(N) 0.15				VT(N) 0.29		CR 57		
79	EDS 95 IW VER2: E366 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.27			SHGC(N) 0.17				VT(N) 0.36		CR 54		
80	EDS 95 IW VER2: E270 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.27			SHGC(N) 0.22				VT(N) 0.39		CR 55		

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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)		
81	EDS 95 IW VER2: E180 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.068(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.28			SHGC(N) 0.36				VT(N) 0.45		CR 52		
82	EDS 95 IW VER2: E366 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					AIR	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.29			SHGC(N) 0.18				VT(N) 0.36		CR 50		
83	EDS 95 IW VER2: SB70 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.018(#2)	CL	SS-D	N
	U-Factor 0.30			SHGC(N) 0.18				VT(N) 0.38		CR 52		
84	EDS 95 IW VER2: SB60 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	SS-D	N
	U-Factor 0.30			SHGC(N) 0.25				VT(N) 0.42		CR 53		
85	EDS 95 IW VER2: E270 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.27			SHGC(N) 0.22				VT(N) 0.39		CR 45		
86	EDS 95 IW VER2: E366 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.020(#2)	CL	SS-D	N
	U-Factor 0.30			SHGC(N) 0.18				VT(N) 0.37		CR 47		
87	EDS 95 IW VER2: E270 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.035(#2)	CL	SS-D	N
	U-Factor 0.30			SHGC(N) 0.23				VT(N) 0.40		CR 44		
88	EDS 95 IW VER2: E270 / air / clr / air / E180 (6mm/6mm/6mm) - 44mm IG											
	0.224	0.500	0.224	0.500	0.223			AIR	0.035(#2) / 0.068(#5)	CL	SS-D	N
	U-Factor 0.24			SHGC(N) 0.20				VT(N) 0.35		CR 45		
89	EDS 95 IW VER2: E366 / arg90 / clr / arg90 / i89 (6mm/6mm/6mm) - 44mm IG											
	0.224	0.500	0.224	0.500	0.223			ARG90	0.020(#2) / 0.149(#6)	CL	SS-D	N
	U-Factor 0.23			SHGC(N) 0.16				VT(N) 0.33		CR 44		
90	EDS 95 IW VER2: SNX 62/27 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2)	CL	SS-D	N
	U-Factor 0.30			SHGC(N) 0.17				VT(N) 0.37		CR 43		

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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)		
91	EDS 95 IW VER2: SNX 62/27 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.020(#2)	CL	SS-D	N
	U-Factor 0.32			SHGC(N) 0.17				VT(N) 0.37		CR 50		
92	EDS 95 IW VER2: SN68 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2)	CL	SS-D	N
	U-Factor 0.30			SHGC(N) 0.19				VT(N) 0.34		CR 51		
93	EDS 95 IW VER2: SNX 62/27 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2) / 0.198(#4)	CL	SS-D	N
	U-Factor 0.27			SHGC(N) 0.17				VT(N) 0.35		CR 45		
94	EDS 95 IW VER2: SN68 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2) / 0.198(#4)	CL	SS-D	N
	U-Factor 0.27			SHGC(N) 0.18				VT(N) 0.33		CR 53		
95	EDS 95 IW VER2: SNX 51/23 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2)	CL	SS-D	N
	U-Factor 0.32			SHGC(N) 0.15				VT(N) 0.30		CR 53		
96	EDS 95 IW VER2: SNX 51/23 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2)	CL	SS-D	N
	U-Factor 0.30			SHGC(N) 0.15				VT(N) 0.30		CR 63		
97	EDS 95 IW VER2: SNX 51/23 / air / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2) / 0.198(#4)	CL	SS-D	N
	U-Factor 0.29			SHGC(N) 0.15				VT(N) 0.29		CR 51		
98	EDS 95 IW VER2: SNX 51/23 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2) / 0.198(#4)	CL	SS-D	N
	U-Factor 0.27			SHGC(N) 0.15				VT(N) 0.29		CR 53		
99	EDS 95 IW VER2: E366 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.020(#2) / 0.149(#4)	CL	TP-D	N
	U-Factor 0.27			SHGC(N) 0.17				VT(N) 0.36		CR 48		
100	EDS 95 IW VER2: E270 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	TP-D	N
	U-Factor 0.27			SHGC(N) 0.22				VT(N) 0.39		CR 51		

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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)		
101	EDS 95 IW VER2: E180 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.068(#2) / 0.149(#4)	CL	TP-D	N
	U-Factor 0.28			SHGC(N) 0.36				VT(N) 0.45		CR 44		
102	EDS 95 IW VER2: E366 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					AIR	0.020(#2) / 0.149(#4)	CL	TP-D	N
	U-Factor 0.29			SHGC(N) 0.18				VT(N) 0.36		CR 43		
103	EDS 95 IW VER2: SB70 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.018(#2)	CL	TP-D	N
	U-Factor 0.30			SHGC(N) 0.18				VT(N) 0.38		CR 46		
104	EDS 95 IW VER2: SB60 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	TP-D	N
	U-Factor 0.30			SHGC(N) 0.25				VT(N) 0.42		CR 48		
105	EDS 95 IW VER2: E270 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	TP-D	N
	U-Factor 0.27			SHGC(N) 0.22				VT(N) 0.39		CR 38		
106	EDS 95 IW VER2: E366 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.020(#2)	CL	TP-D	N
	U-Factor 0.30			SHGC(N) 0.18				VT(N) 0.37		CR 42		
107	EDS 95 IW VER2: E270 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.035(#2)	CL	TP-D	N
	U-Factor 0.30			SHGC(N) 0.23				VT(N) 0.40		CR 53		
108	EDS 95 IW VER2: SNX 62/27 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2)	CL	TP-D	N
	U-Factor 0.30			SHGC(N) 0.17				VT(N) 0.37		CR 54		
109	EDS 95 IW VER2: SNX 62/27 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.020(#2)	CL	TP-D	N
	U-Factor 0.32			SHGC(N) 0.17				VT(N) 0.37		CR 52		
110	EDS 95 IW VER2: SN68 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2)	CL	TP-D	N
	U-Factor 0.30			SHGC(N) 0.19				VT(N) 0.34		CR 52		

TEST REPORT FOR EAGON WINDOWS & DOORS CO., LTD.

Report No: M3775.02-116-45 R1

Date: 12/20/21

SECTION 6 (Continued)

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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)		
111	EDS 95 IW VER2: SNX 62/27 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2) / 0.198(#4)	CL	TP-D	N
	U-Factor 0.27			SHGC(N) 0.17				VT(N) 0.35		CR 57		
112	EDS 95 IW VER2: SN68 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2) / 0.198(#4)	CL	TP-D	N
	U-Factor 0.28			SHGC(N) 0.18				VT(N) 0.33		CR 56		
113	EDS 95 IW VER2: SNX 51/23 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2)	CL	TP-D	N
	U-Factor 0.32			SHGC(N) 0.15				VT(N) 0.30		CR 53		
114	EDS 95 IW VER2: SNX 51/23 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2)	CL	TP-D	N
	U-Factor 0.30			SHGC(N) 0.15				VT(N) 0.30		CR 62		
115	EDS 95 IW VER2: SNX 51/23 / air / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2) / 0.198(#4)	CL	TP-D	N
	U-Factor 0.29			SHGC(N) 0.15				VT(N) 0.29		CR 51		
116	EDS 95 IW VER2: SNX 51/23 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2) / 0.198(#4)	CL	TP-D	N
	U-Factor 0.27			SHGC(N) 0.15				VT(N) 0.29		CR 57		
117	EDS 95 IW VER2: E366 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.020(#2) / 0.149(#4)	CL	ZF-S	N
	U-Factor 0.26			SHGC(N) 0.17				VT(N) 0.36		CR 55		
118	EDS 95 IW VER2: E270 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	ZF-S	N
	U-Factor 0.26			SHGC(N) 0.22				VT(N) 0.39		CR 55		
119	EDS 95 IW VER2: E180 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.068(#2) / 0.149(#4)	CL	ZF-S	N
	U-Factor 0.27			SHGC(N) 0.36				VT(N) 0.45		CR 53		
120	EDS 95 IW VER2: E366 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					AIR	0.020(#2) / 0.149(#4)	CL	ZF-S	N
	U-Factor 0.28			SHGC(N) 0.18				VT(N) 0.36		CR 50		

TEST REPORT FOR EAGON WINDOWS & DOORS CO., LTD.

Report No: M3775.02-116-45 R1

Date: 12/20/21

SECTION 6 (Continued)

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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)		
121	EDS 95 IW VER2: SB70 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.018(#2)	CL	ZF-S	N
	U-Factor 0.29			SHGC(N) 0.18				VT(N) 0.38		CR 57		
122	EDS 95 IW VER2: SB60 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	ZF-S	N
	U-Factor 0.29			SHGC(N) 0.25				VT(N) 0.42		CR 56		
123	EDS 95 IW VER2: E270 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					ARG90	0.035(#2) / 0.149(#4)	CL	ZF-S	N
	U-Factor 0.26			SHGC(N) 0.22				VT(N) 0.39		CR 54		
124	EDS 95 IW VER2: E366 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.020(#2)	CL	ZF-S	N
	U-Factor 0.29			SHGC(N) 0.18				VT(N) 0.37		CR 57		
125	EDS 95 IW VER2: E270 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.035(#2)	CL	ZF-S	N
	U-Factor 0.29			SHGC(N) 0.23				VT(N) 0.40		CR 48		
126	EDS 95 IW VER2: SNX 62/27 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2)	CL	ZF-S	N
	U-Factor 0.29			SHGC(N) 0.17				VT(N) 0.37		CR 51		
127	EDS 95 IW VER2: SNX 62/27 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.020(#2)	CL	ZF-S	N
	U-Factor 0.32			SHGC(N) 0.17				VT(N) 0.37		CR 50		
128	EDS 95 IW VER2: SN68 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2)	CL	ZF-S	N
	U-Factor 0.29			SHGC(N) 0.19				VT(N) 0.34		CR 52		
129	EDS 95 IW VER2: SNX 62/27 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.020(#2) / 0.198(#4)	CL	ZF-S	N
	U-Factor 0.26			SHGC(N) 0.17				VT(N) 0.35		CR 50		
130	EDS 95 IW VER2: SN68 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2) / 0.198(#4)	CL	ZF-S	N
	U-Factor 0.27			SHGC(N) 0.18				VT(N) 0.33		CR 48		

TEST REPORT FOR EAGON WINDOWS & DOORS CO., LTD.

Report No: M3775.02-116-45 R1

Date: 12/20/21

SECTION 6 (Continued)

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (EDS 75 IW / EDS 95 IW Swing Door)												
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)		
131	EDS 95 IW VER2: SNX 51/23 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2)	CL	ZF-S	N
	U-Factor 0.32			SHGC(N) 0.15				VT(N) 0.30		CR 59		
132	EDS 95 IW VER2: SNX 51/23 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2)	CL	ZF-S	N
	U-Factor 0.29			SHGC(N) 0.15				VT(N) 0.30		CR 60		
133	EDS 95 IW VER2: SNX 51/23 / air / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.021(#2) / 0.198(#4)	CL	ZF-S	N
	U-Factor 0.28			SHGC(N) 0.15				VT(N) 0.29		CR 50		
134	EDS 95 IW VER2: SNX 51/23 / arg90 / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.021(#2) / 0.198(#4)	CL	ZF-S	N
	U-Factor 0.26			SHGC(N) 0.15				VT(N) 0.29		CR 57		



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York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
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TEST REPORT FOR EAGON WINDOWS & DOORS CO., LTD.

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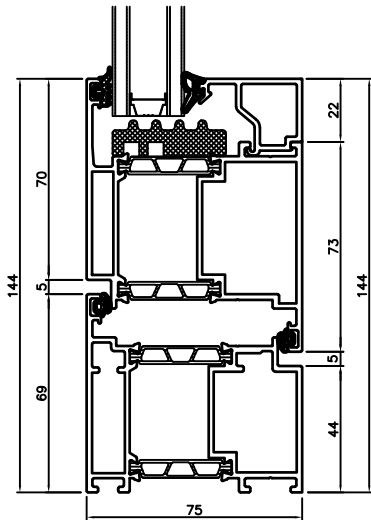
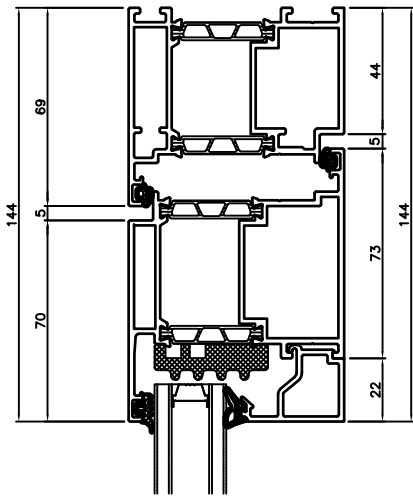
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SECTION 7

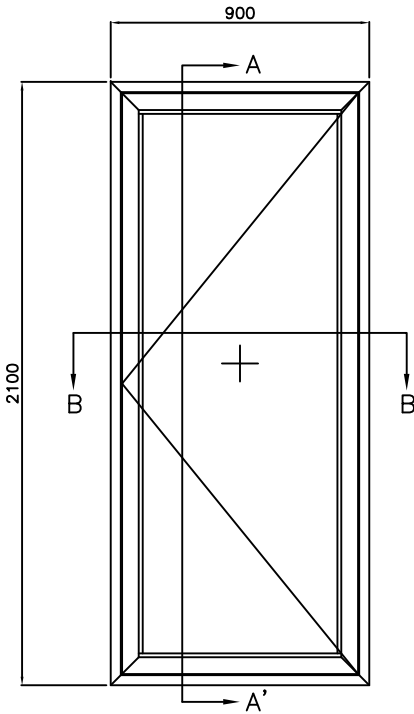
DRAWINGS / BILL OF MATERIALS

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

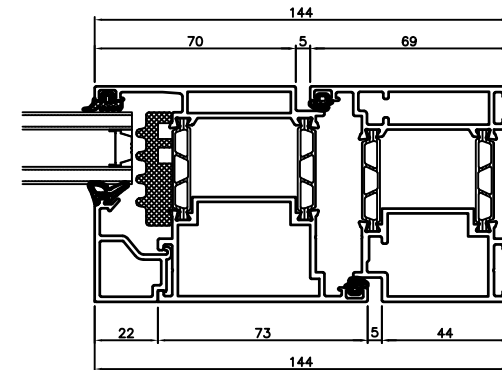
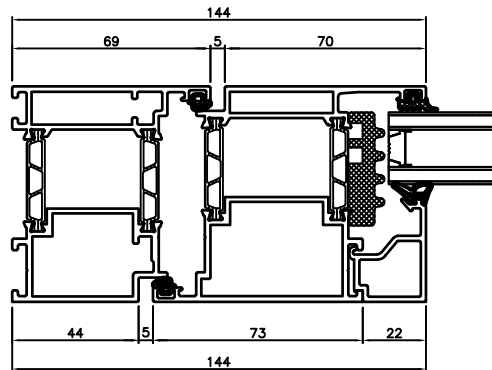
EWS 75 IW



VERTICAL SECTION (A-A')



ELEVATION (Inside View)



HORIZONTAL SECTION (B-B')

SYSTEM
~~EDS 95 IW~~

NOTE.

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PROJECT TITLE

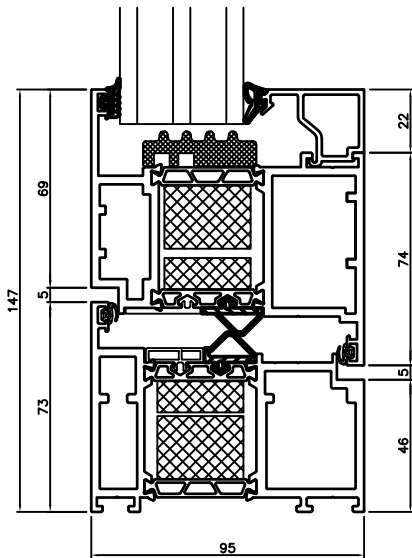
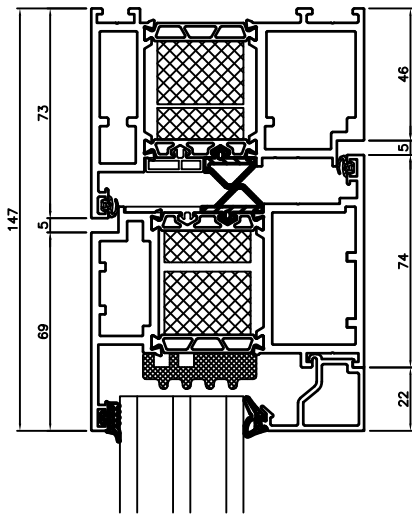
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CHECKED BY	DATE
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FILE NAME	

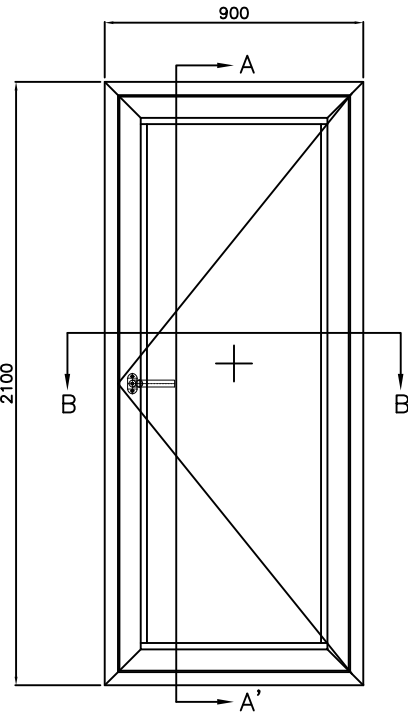
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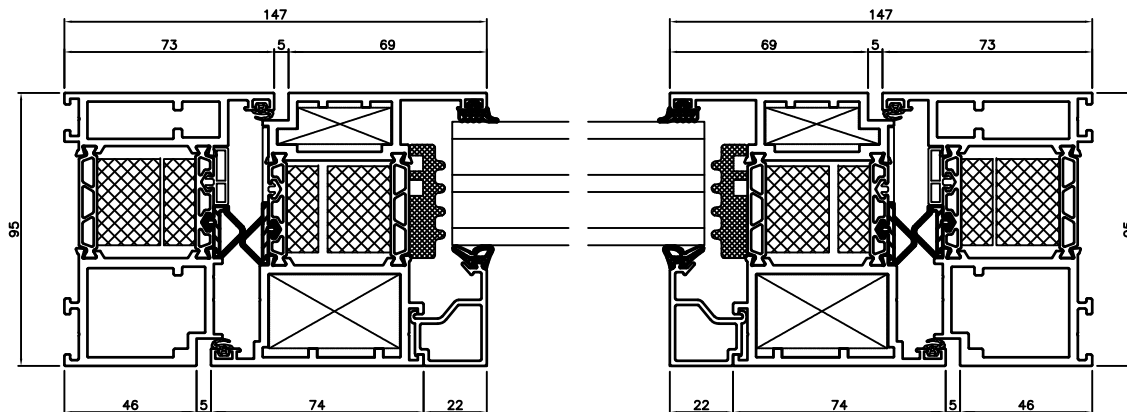
EWS 95 IW



VERTICAL SECTION (A-A')



ELEVATION (Inside View)



HORIZONTAL SECTION (B-B')

EAGON
이건창호

SYSTEM
EDS 95 IW

NOTE.

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NFRC-01
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PROJECT TITLE

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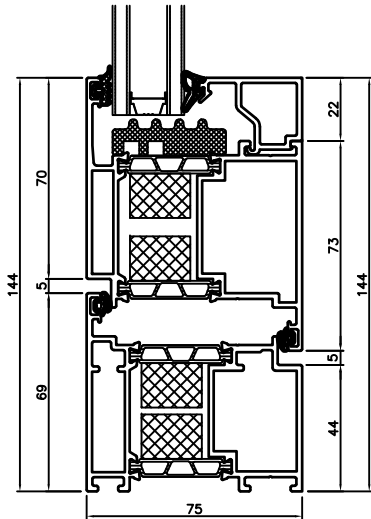
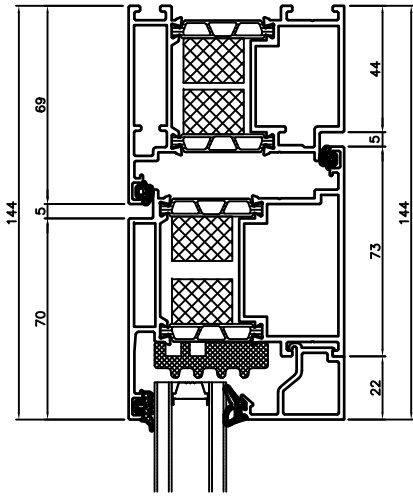
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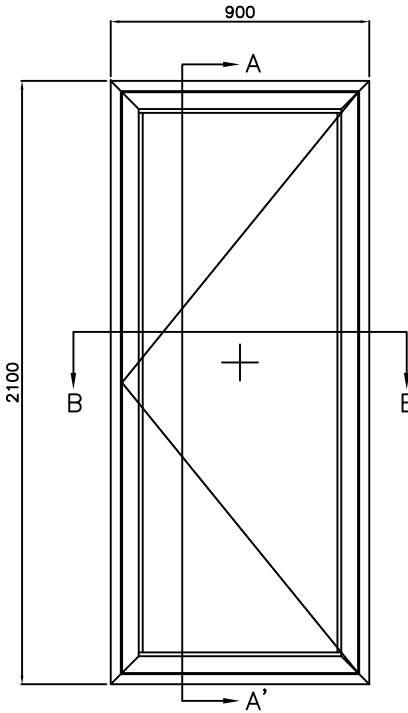
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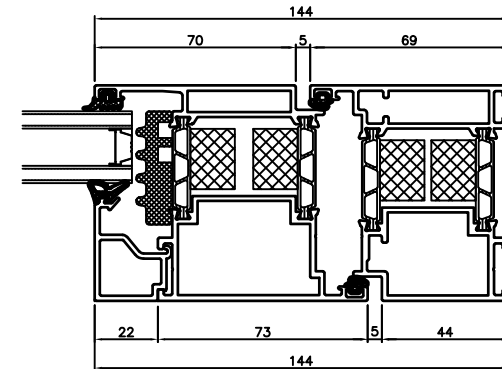
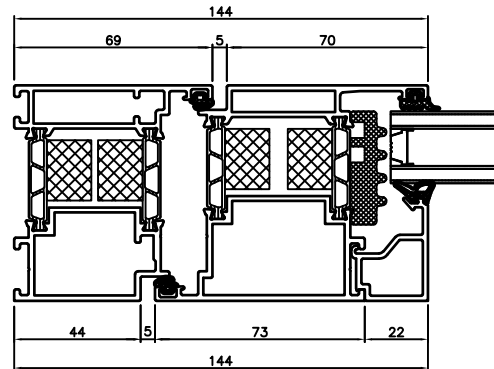
EWS 75 IW FOAM



VERTICAL SECTION (A-A')



ELEVATION (Inside View)



HORIZONTAL SECTION (B-B')

SYSTEM
~~EDS-95 IW~~

NOTE.

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PROJECT TITLE

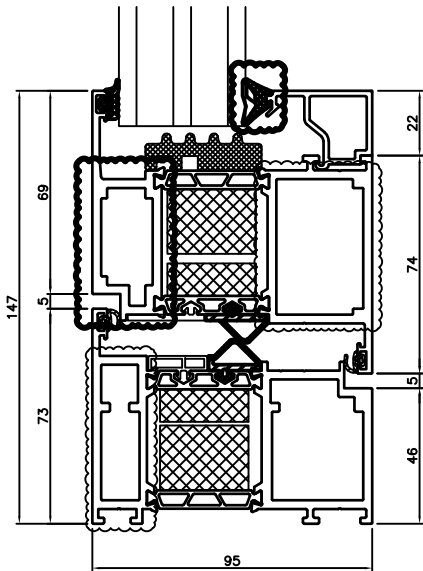
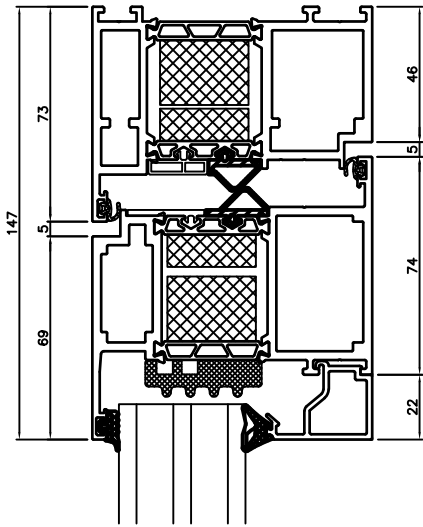
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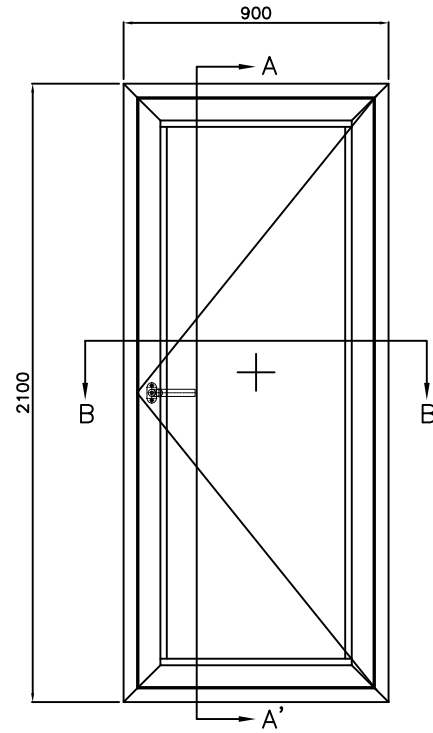
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 Date: 9/29/2021
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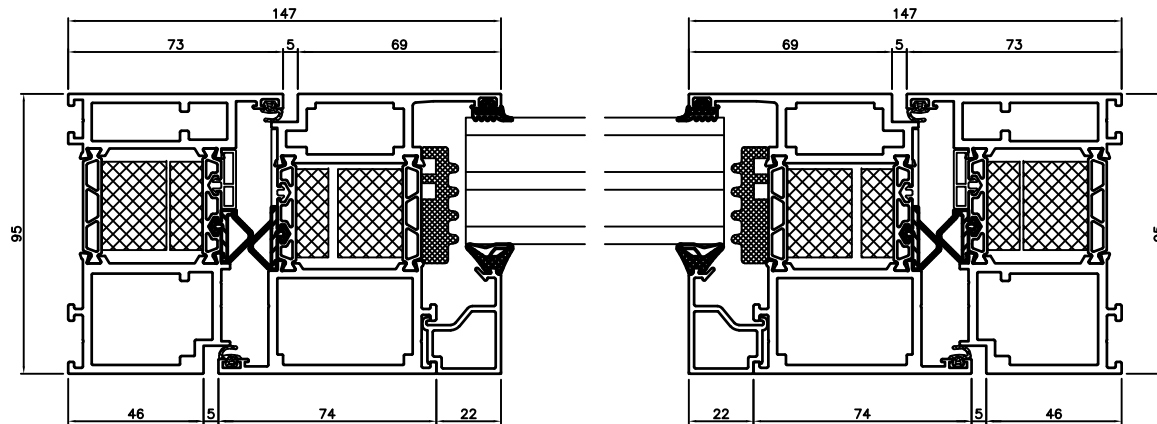
EWS 95 IW VER2



VERTICAL SECTION (A-A')



ELEVATION (Inside View)



HORIZONTAL SECTION (B-B')

EAGON
이건창호

SYSTEM
 EDS 95 IW

NOTE.

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PROJECT TITLE

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APPROVED BY	FILE NAME

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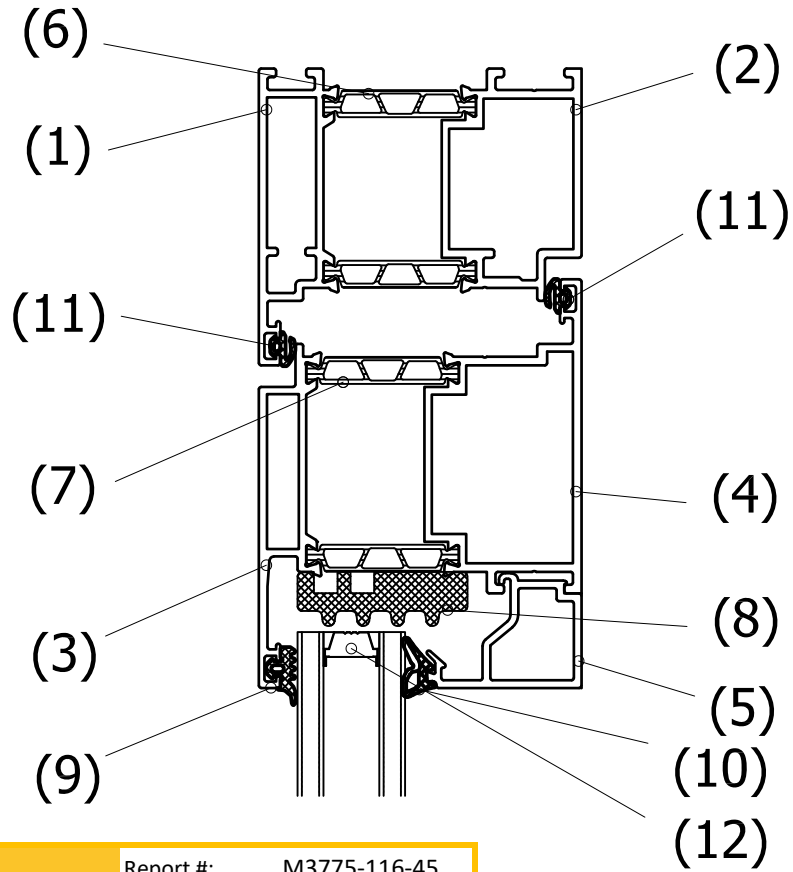
Appendix-A

Bill of Materials

Part Identification	Part Number	Material
Frame OUT	(1)	Painted Aluminum Alloy
Frame IN	(2)	Painted Aluminum Alloy
Vent OUT	(3)	Painted Aluminum Alloy
Vent IN	(4)	Painted Aluminum Alloy
Glazing Bead	(5)	Painted Aluminum Alloy
Frame Insulation Bar	(6)	Polyamide 6.6 with 25%
Vent Insulation Bar	(7)	Polyamide 6.6 with 25%
Glass Insulation Pad	(8)	Polyurethane Foam
Outside Glazing Gasket	(9)	EPDM / EPDM Sponge
Inside Glazing Gasket	(10)	EPDM / EPDM Sponge
Rebate Gasket	(11)	EPDM / EPDM Sponge
Spacer	(12)	Polyisobutylene(PIB)
		Stainless Steel
		Silicone
	(13)	
	(14)	EPDM / EPDM Sponge
	(15)	PVC
	(16)	PVC

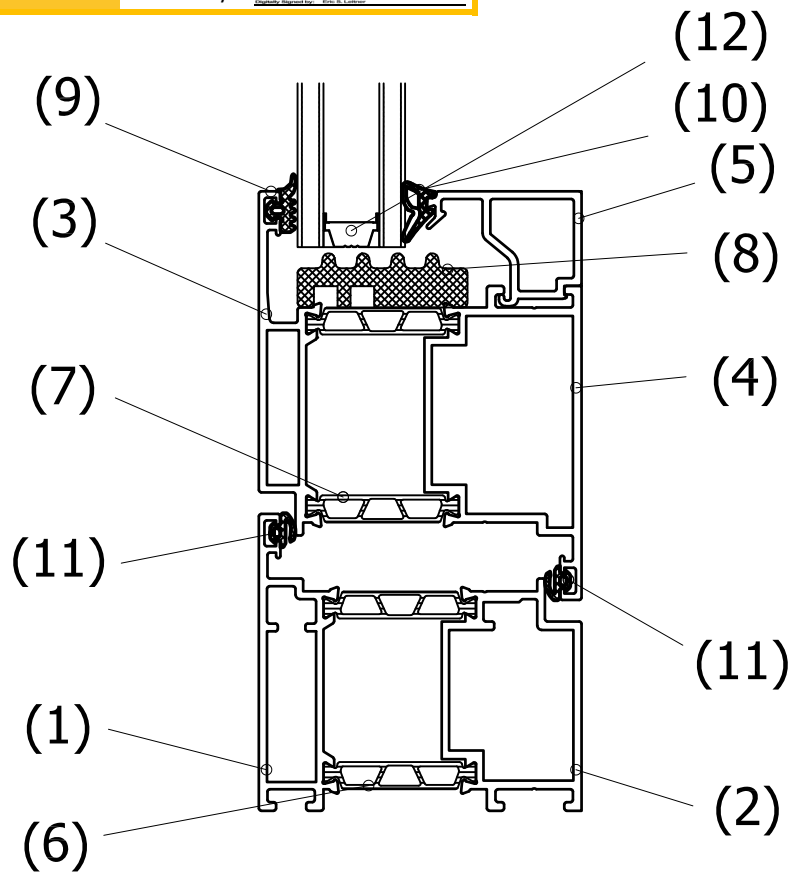
Assembly Views : Vertical Section

Vent Head



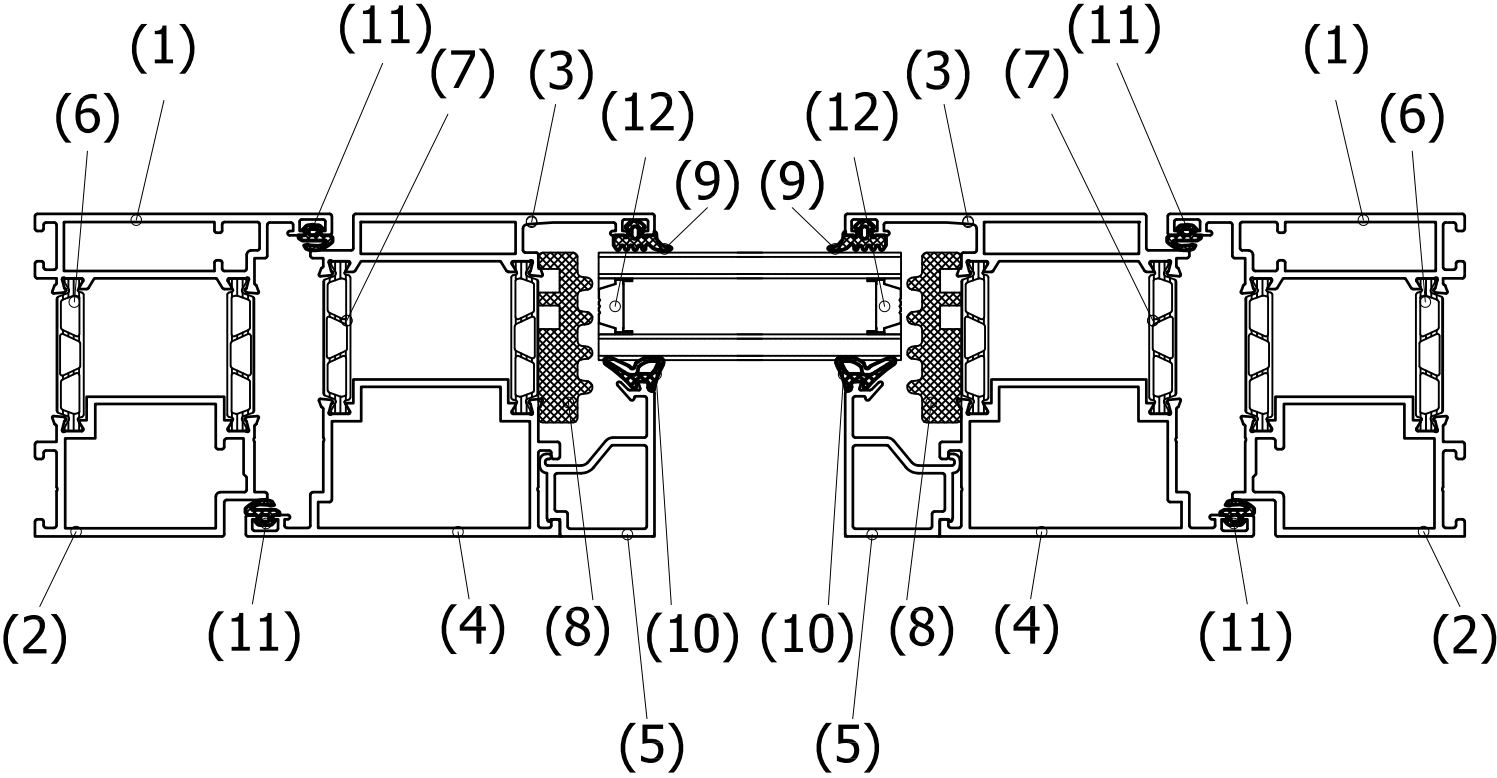
	Report #:	M3775-116-45
	Date:	6/23/2021
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Vent Sill



Assembly Views : Horizontal Section

Vent Jamb



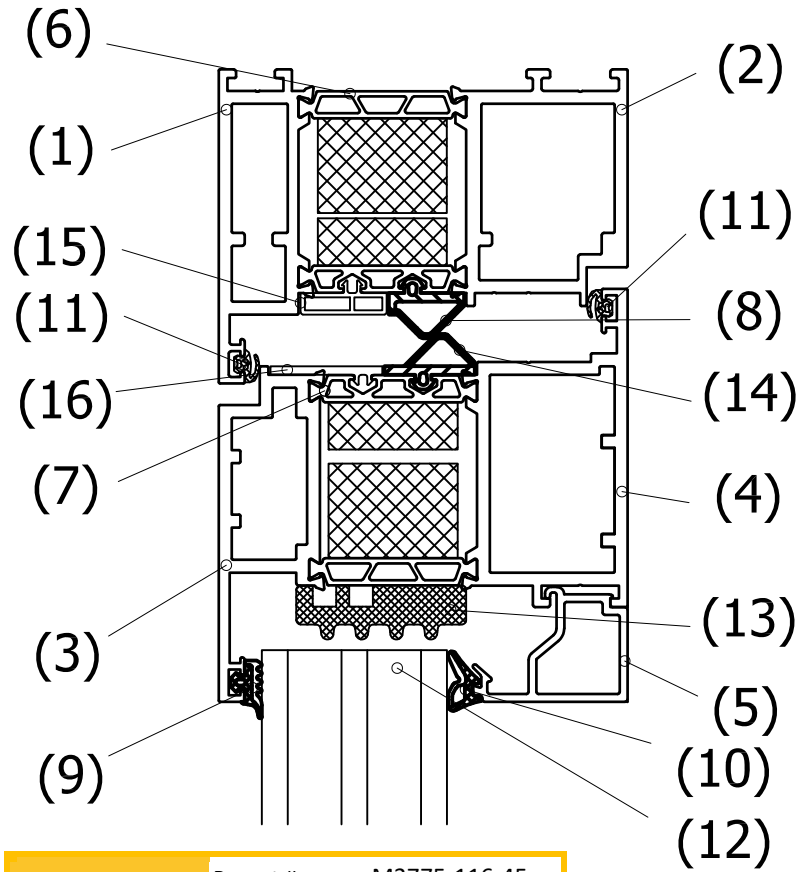
Appendix-A

Bill of Materials

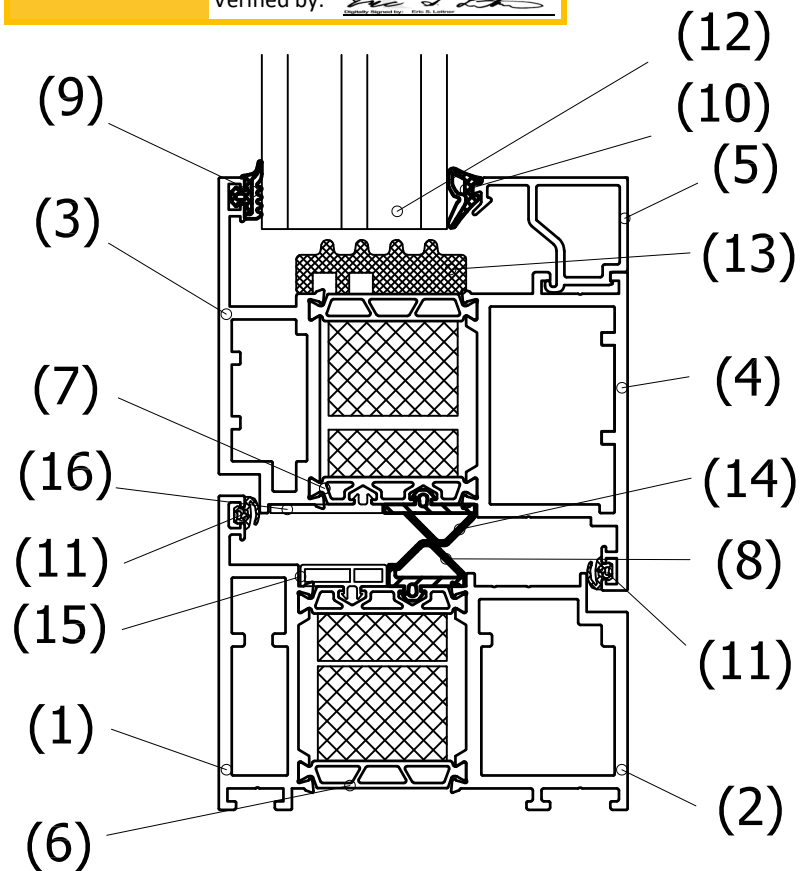
Part Identification	Part Number	Material
Frame OUT	(1)	Painted Aluminum Alloy
Frame IN	(2)	Painted Aluminum Alloy
Vent OUT	(3)	Painted Aluminum Alloy
Vent IN	(4)	Painted Aluminum Alloy
Glazing Bead	(5)	Painted Aluminum Alloy
Frame Insulation Bar	(6)	Polyamide 6.6 with 25% / Polyurethane Form
Vent Insulation Bar	(7)	Polyamide 6.6 with 25% / Polyurethane Form
Frame Middle Gasket	(8)	EPDM / EPDM Sponge
Outside Glazing Gasket	(9)	EPDM / EPDM Sponge
Inside Glazing Gasket	(10)	EPDM / EPDM Sponge
Rebate Gasket	(11)	EPDM / EPDM Sponge
Spacer	(12)	Polyisobutylene(PIB)
		Stainless Steel
		Silicone
Glass Insulation Pad	(13)	Polyurethane Foam
Vent Middle Gasket	(14)	EPDM / EPDM Sponge
Frame Cover	(15)	PVC
Vent Cover	(16)	PVC

Assembly Views : Vertical Section

Vent Head



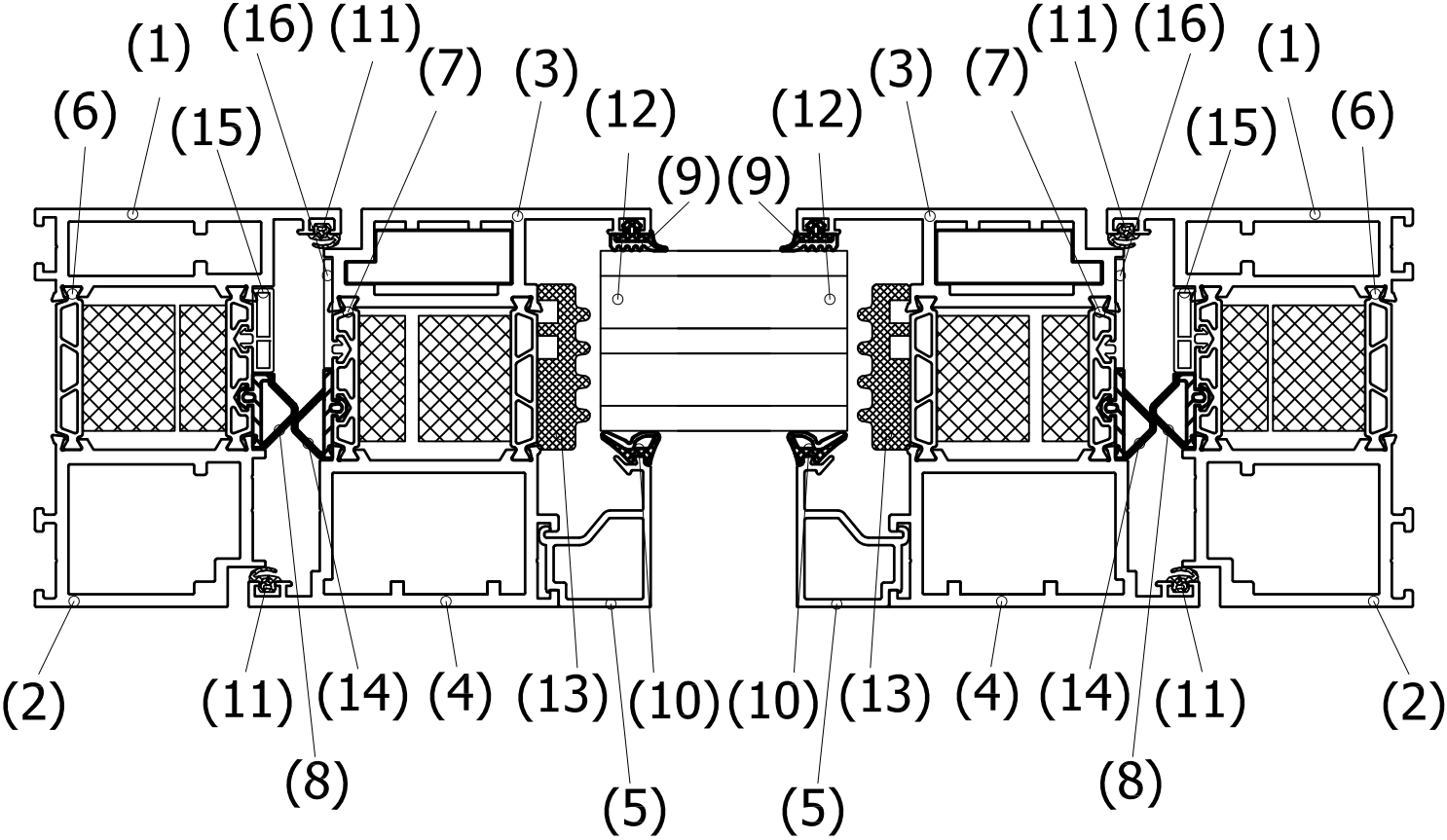
Vent Sill



 <p>Total Quality. Assured.</p>	Report #:	M3775-116-45
	Date:	6/23/2021
	Verified by:	<i>[Signature]</i>

Assembly Views : Horizontal Section

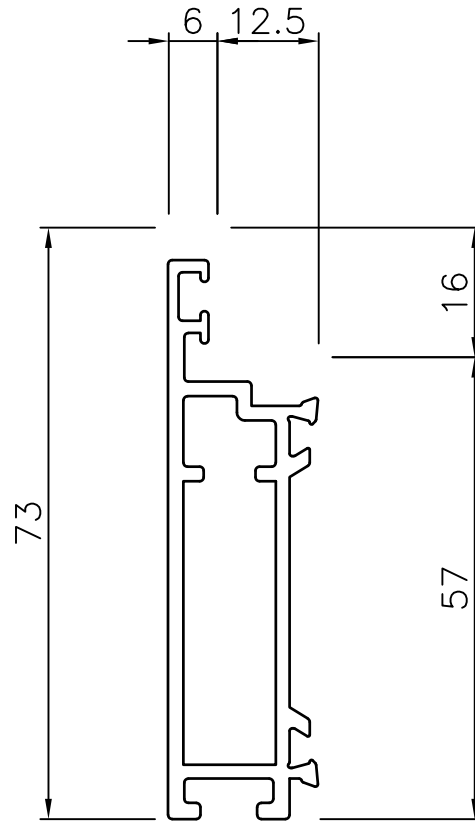
Vent Jamb



no.01

Frame Out

intertek Total Quality. Assured.	Report #:	M3775-116-45
	Date:	6/23/2021
	Verified by:	



Material : Painted Aluminum Alloy

no.02

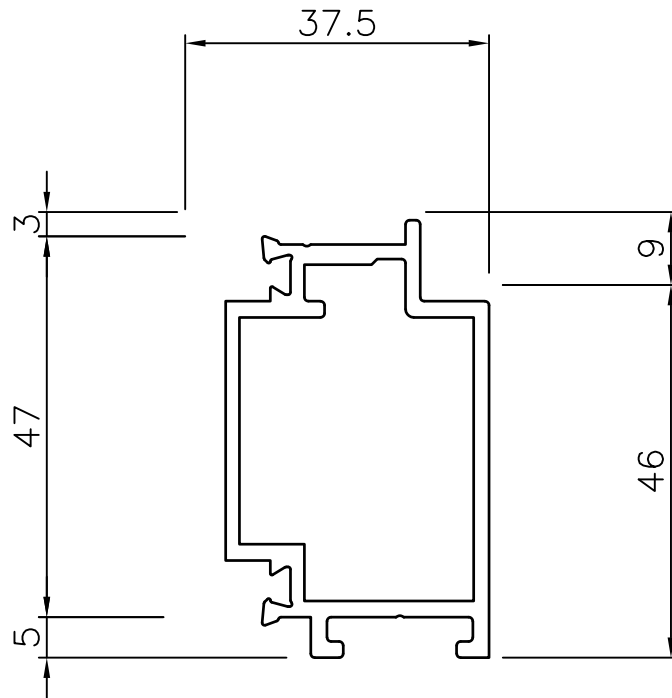
Frame In

intertek
Total Quality. Assured.

Report #: M3775-116-45

Date: 6/23/2021

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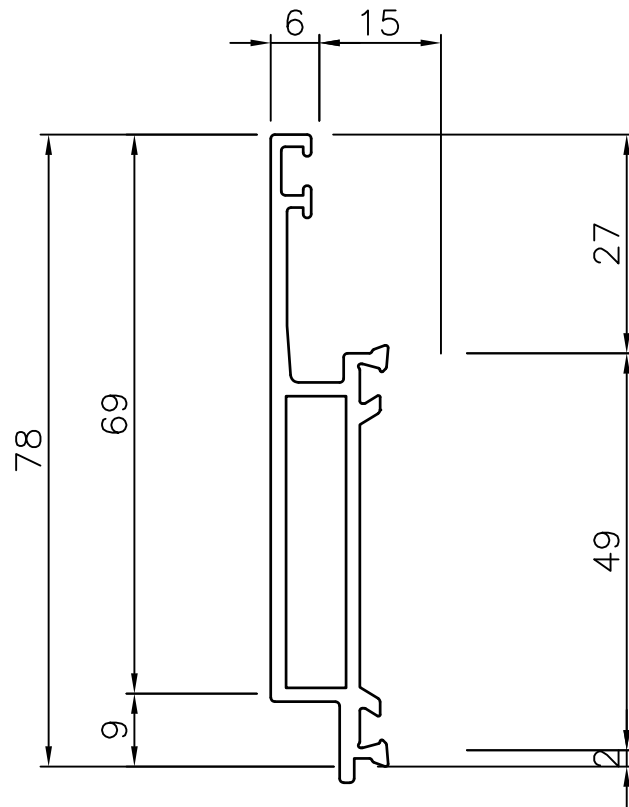


Material : Painted Aluminum Alloy

no.03

Vent Out

intertek Total Quality. Assured.	Report #:	M3775-116-45
	Date:	6/23/2021
	Verified by:	



Material : Painted Aluminum Alloy

no.04

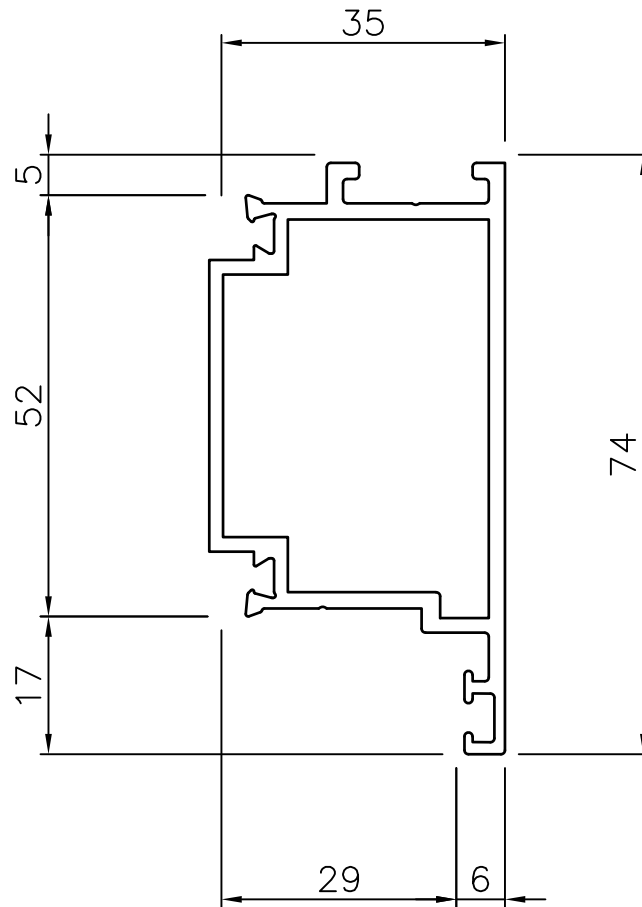
intertek
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Report #: M3775-116-45

Date: 6/23/2021

Verified by: 

Vent In



Material : Painted Aluminum Alloy

no.05

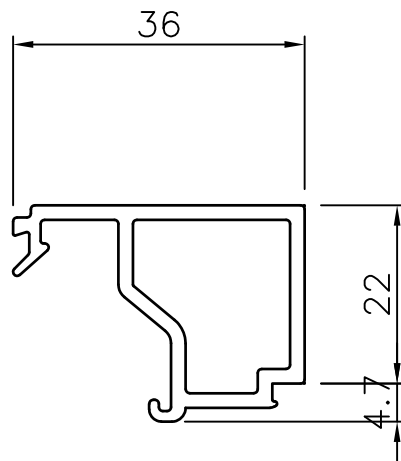
Glazing Bead

intertek
Total Quality. Assured.

Report #: M3775-116-45

Date: 6/23/2021

Verified by: 



Material : Painted Aluminum Alloy

no.06

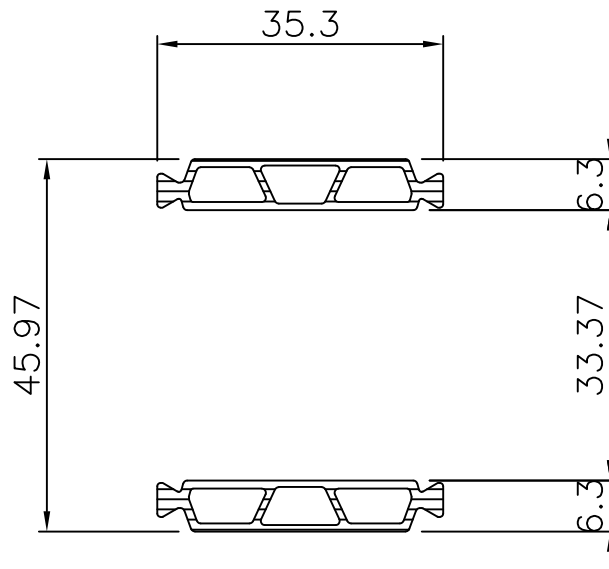
intertek
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Report #: M3775-116-45

Date: 6/23/2021

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Frame Insulation Bar



Polyamide 6.6 with 25% / Polyurathane Form

no.07

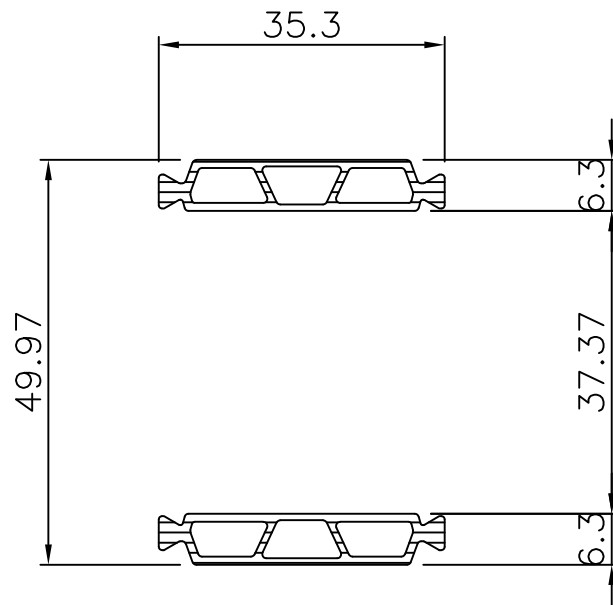
intertek
Total Quality. Assured.

Report #: M3775-116-45

Date: 6/23/2021

Verified by: 


Vent Insulation Bar



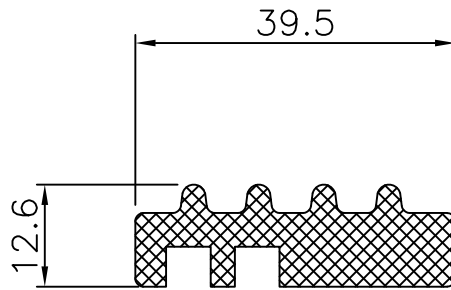
Polyamide 6.6 with 25% / Polyurathane Form

no.08

intertek
Total Quality. Assured.

Report #: M3775-116-45
Date: 6/23/2021
Verified by: 

Glass Insulation Pad



Material : Polyurethane Foam

no.09

intertek
Total Quality. Assured.

Report #: M3775-116-45

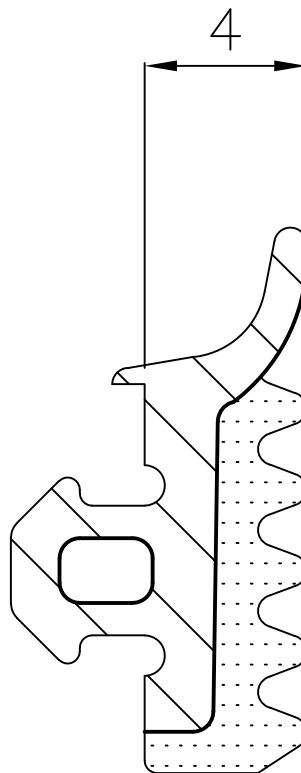
Date: 6/23/2021

Verified by: 

Outside Glazing Gasket



ACTUAL SIZE



Material : EPDM / EPDM Sponge

no.10

intertek
Total Quality. Assured.

Report #: M3775-116-45

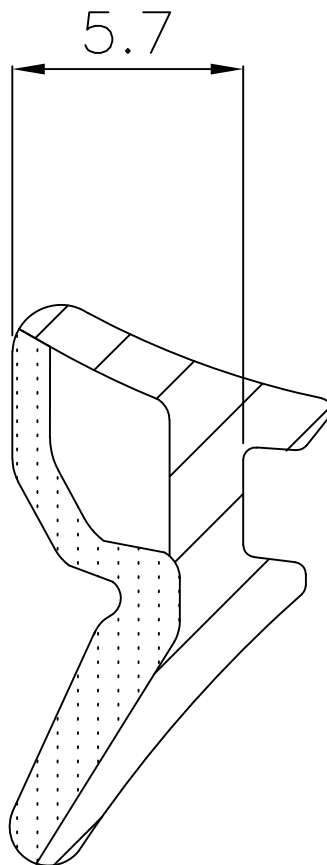
Date: 6/23/2021

Verified by: 

Inside Glazing Gasket



ACTUAL SIZE



Material : EPDM / EPDM Sponge

no.11

intertek
Total Quality. Assured.

Report #: M3775-116-45

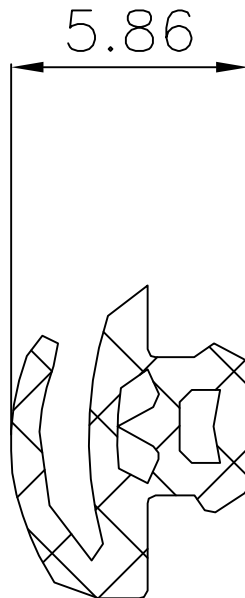
Date: 6/23/2021

Verified by: 

Rebate Gasket



ACTUAL SIZE



Material : EPDM

no.05

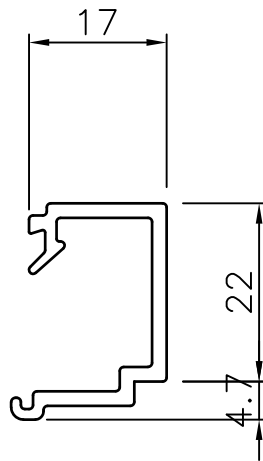
Glazing Bead

intertek
Total Quality. Assured.

Report #: M3775-116-45

Date: 6/23/2021

Verified by: 

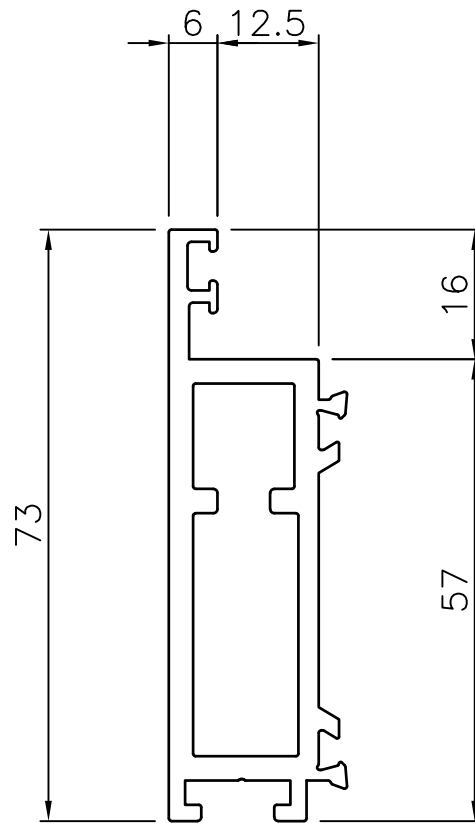


Material : Painted Aluminum Alloy

no.01

Frame Out

intertek Total Quality. Assured.	Report #:	M3775-116-45
	Date:	6/23/2021
	Verified by:	



Material : Painted Aluminum Alloy

no.02

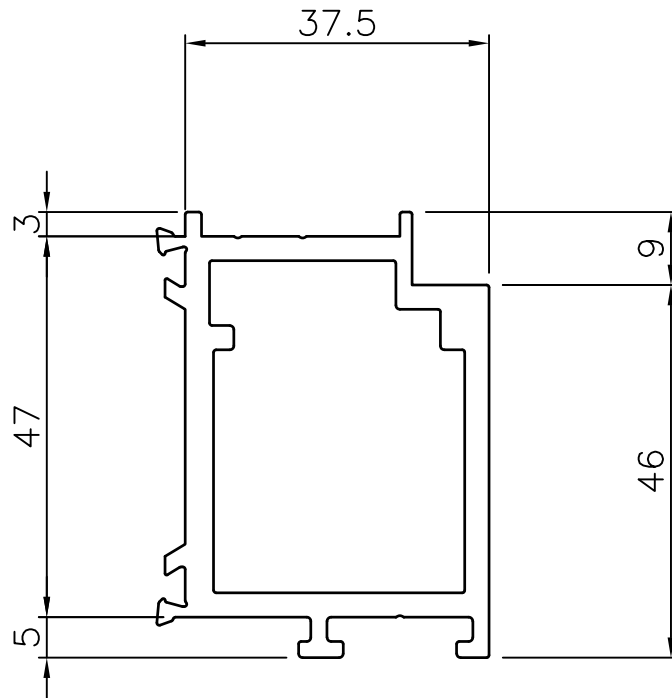
intertek
Total Quality. Assured.

Report #: M3775-116-45

Date: 6/23/2021

Verified by: 

Frame In

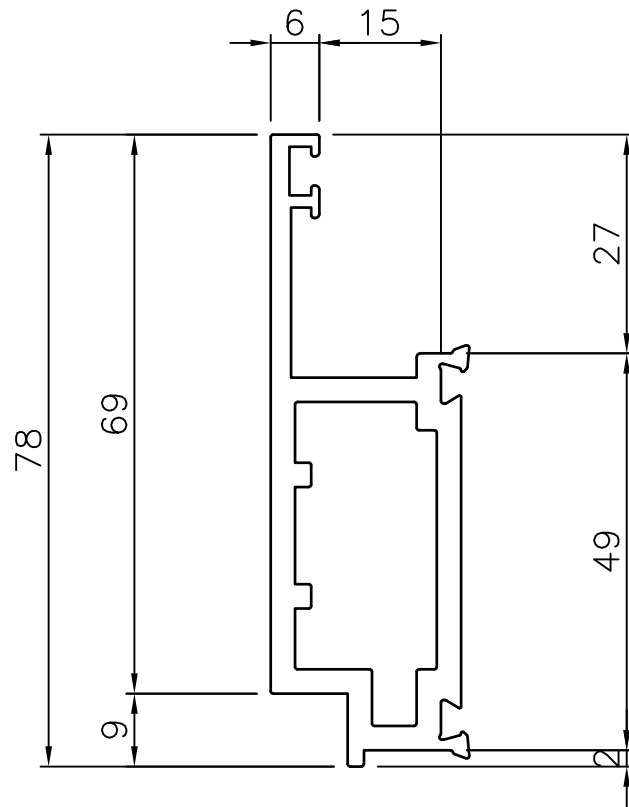


Material : Painted Aluminum Alloy

no.03

Vent Out

intertek Total Quality. Assured.	Report #:	M3775-116-45
	Date:	6/23/2021
	Verified by:	



Material : Painted Aluminum Alloy

no.04

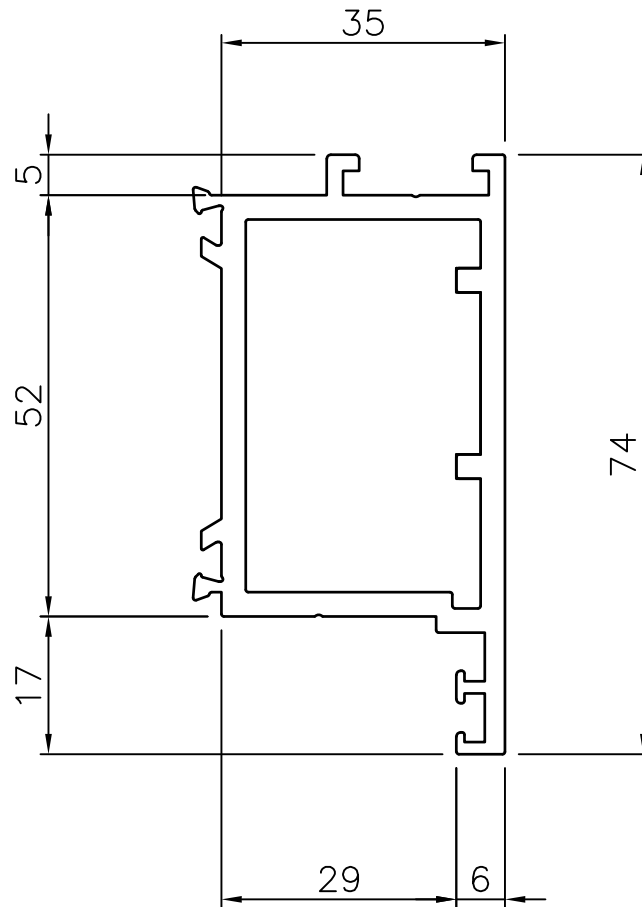
intertek
Total Quality. Assured.

Report #: M3775-116-45

Date: 6/23/2021

Verified by: 

Vent In



Material : Painted Aluminum Alloy

no.06

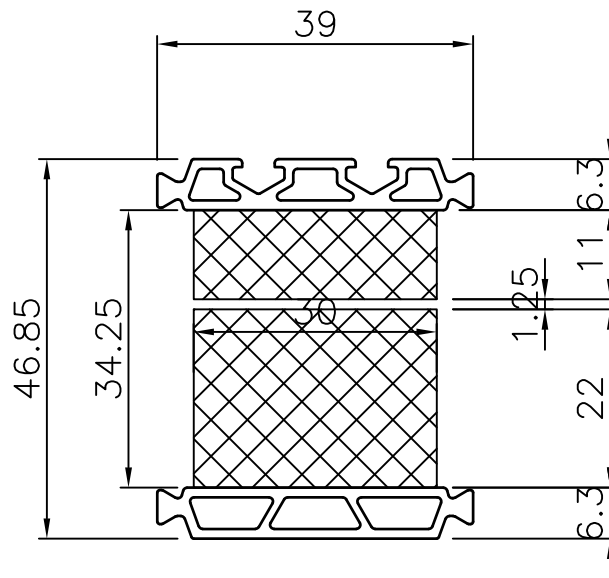
intertek
Total Quality. Assured.

Report #: M3775-116-45

Date: 6/23/2021

Verified by: 


Frame Insulation Bar



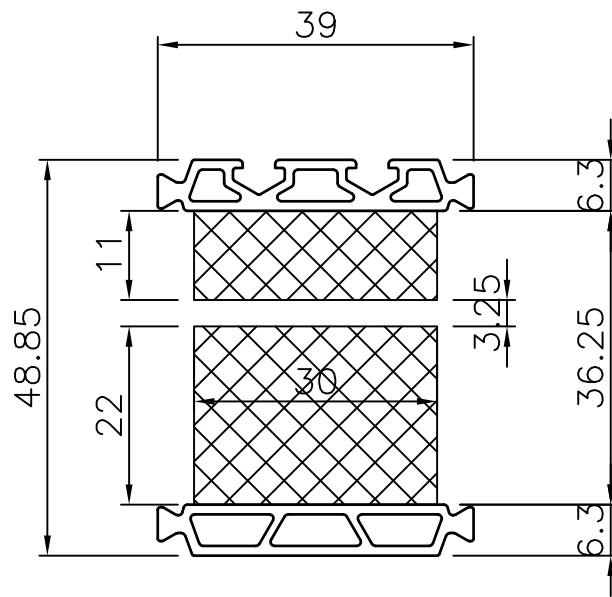
Polyamide 6.6 with 25% / Polyurathane Form

no.07

intertek
Total Quality. Assured.

Report #:	M3775-116-45
Date:	6/23/2021
Verified by:	

Vent Insulation Bar



Polyamide 6.6 with 25% / Polyurathane Form

no.08

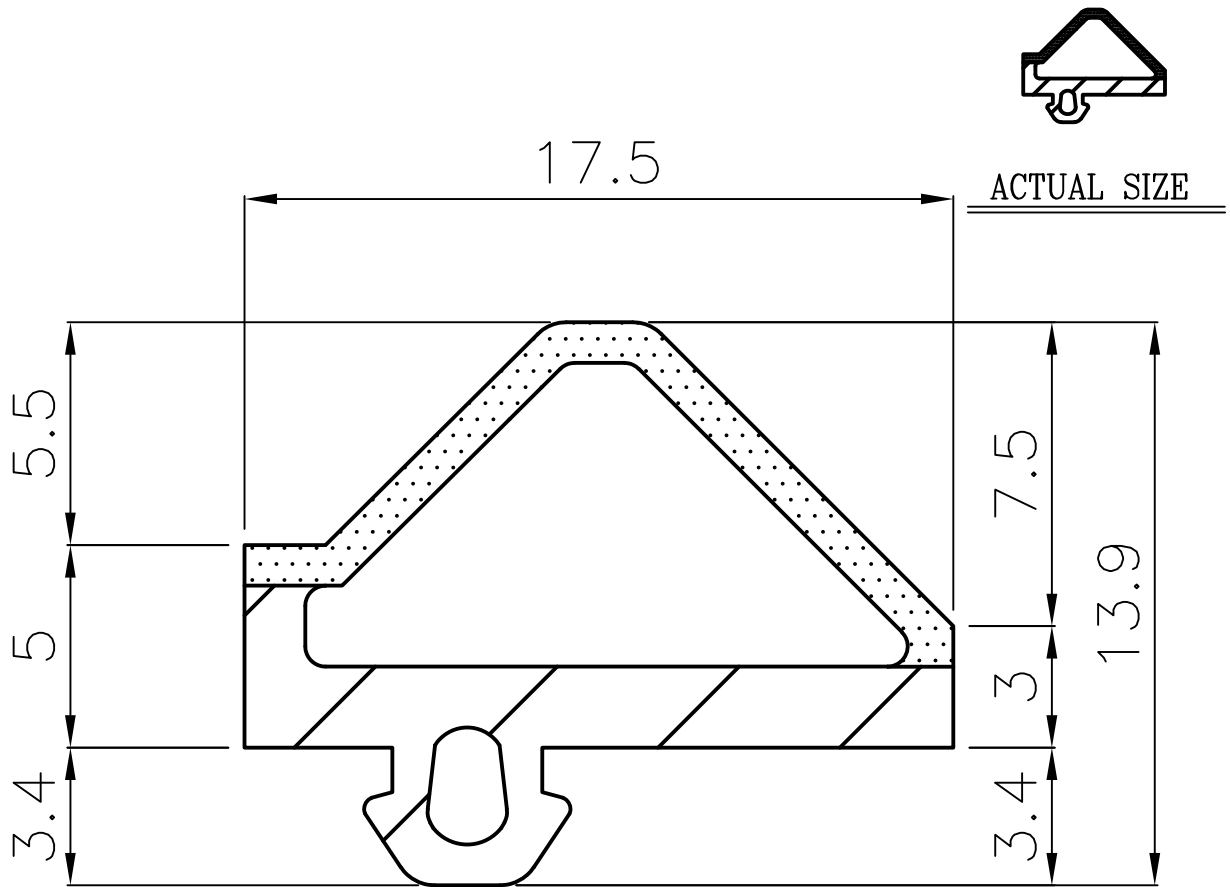
intertek
Total Quality. Assured.

Report #: M3775-116-45

Date: 6/23/2021

Verified by: *[Signature]*


Frame Middle Gasket



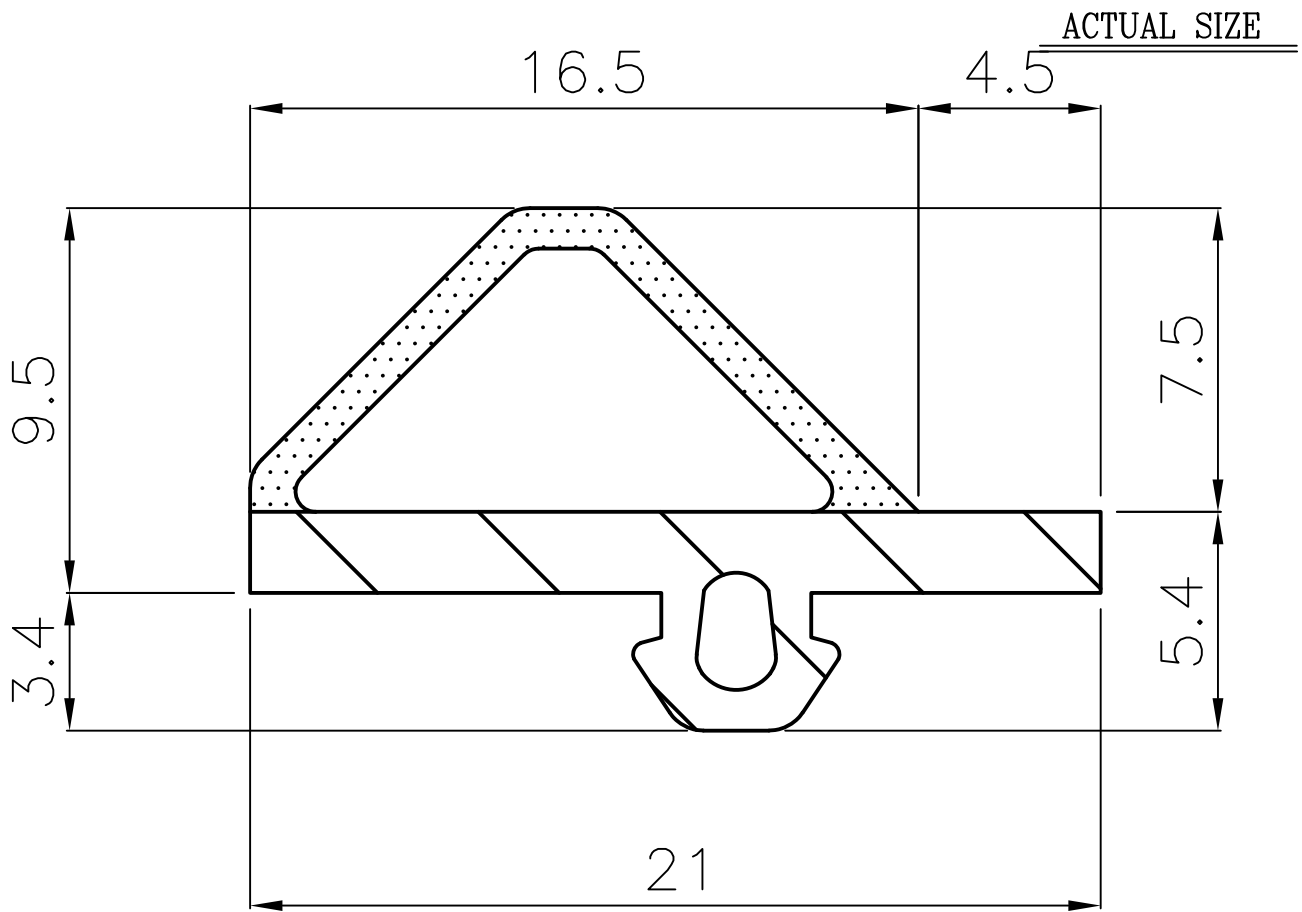
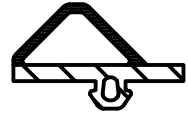
Material : EPDM / EPDM Sponge

no.14

intertek
Total Quality. Assured.

Report #:	M3775-116-45
Date:	6/23/2021
Verified by:	

Vent Middle Gasket



Material : EPDM / EPDM Sponge

no.15

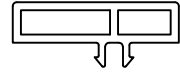
intertek
Total Quality. Assured.

Report #: M3775-116-45

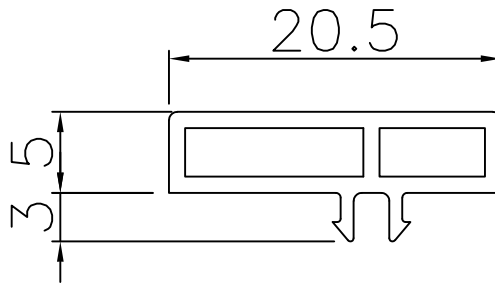
Date: 6/23/2021

Verified by: 

Frame Cover



ACTUAL SIZE



Material : PVC

no.16

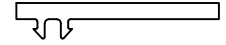
intertek
Total Quality. Assured.

Report #: M3775-116-45

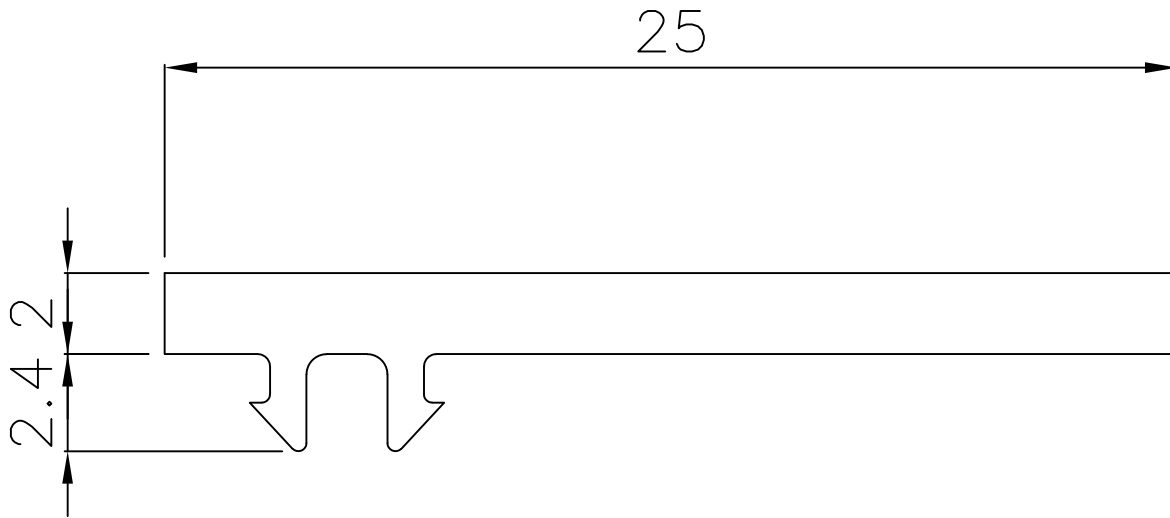
Date: 6/23/2021

Verified by: 

Vent Cover



ACTUAL SIZE



Material : PVC

no.05

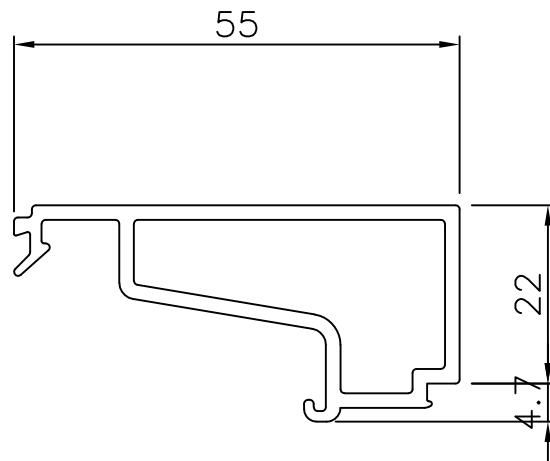
Glazing Bead

intertek
Total Quality. Assured.

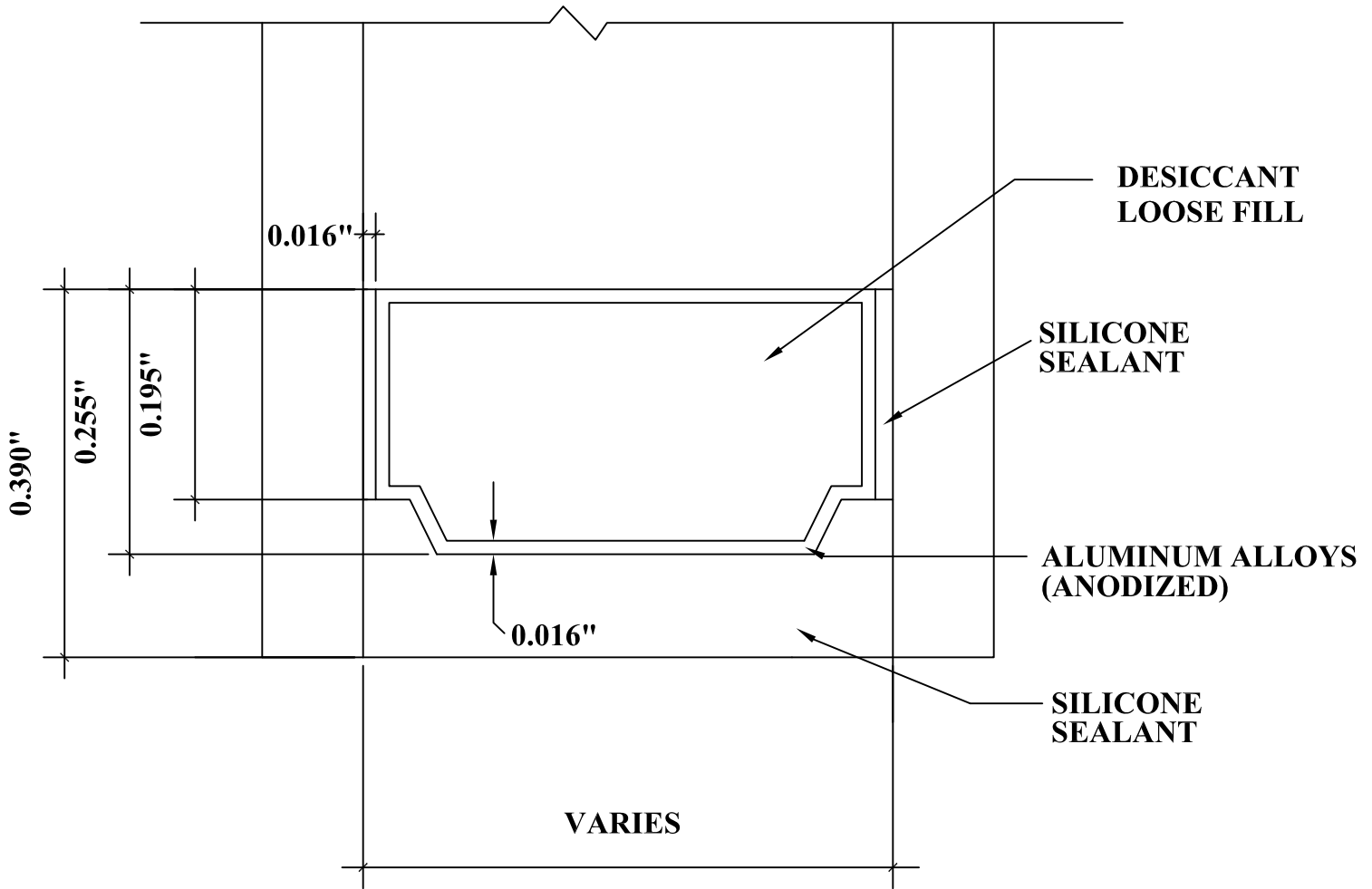
Report #: M3775-116-45

Date: 6/23/2021

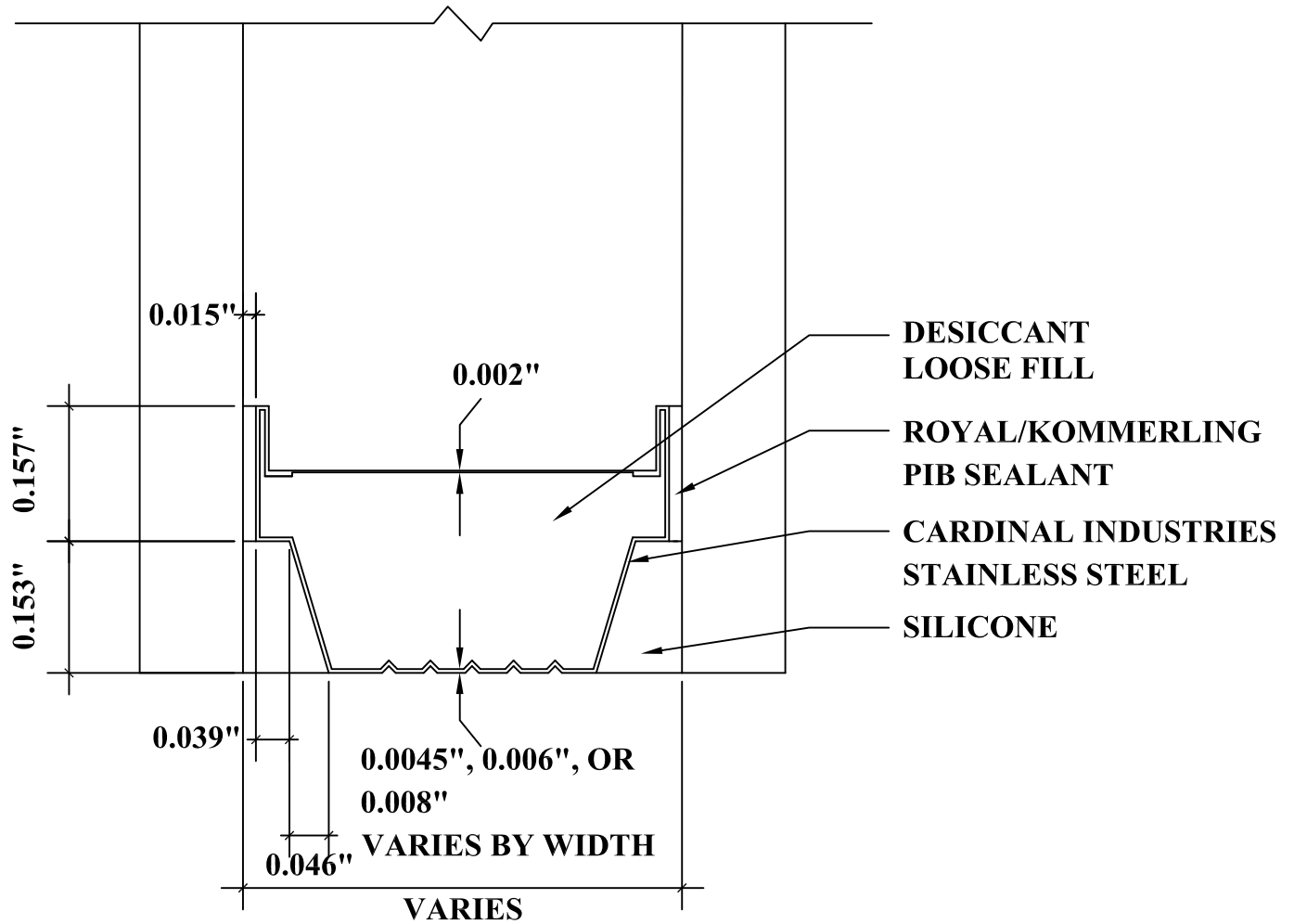
Verified by: 



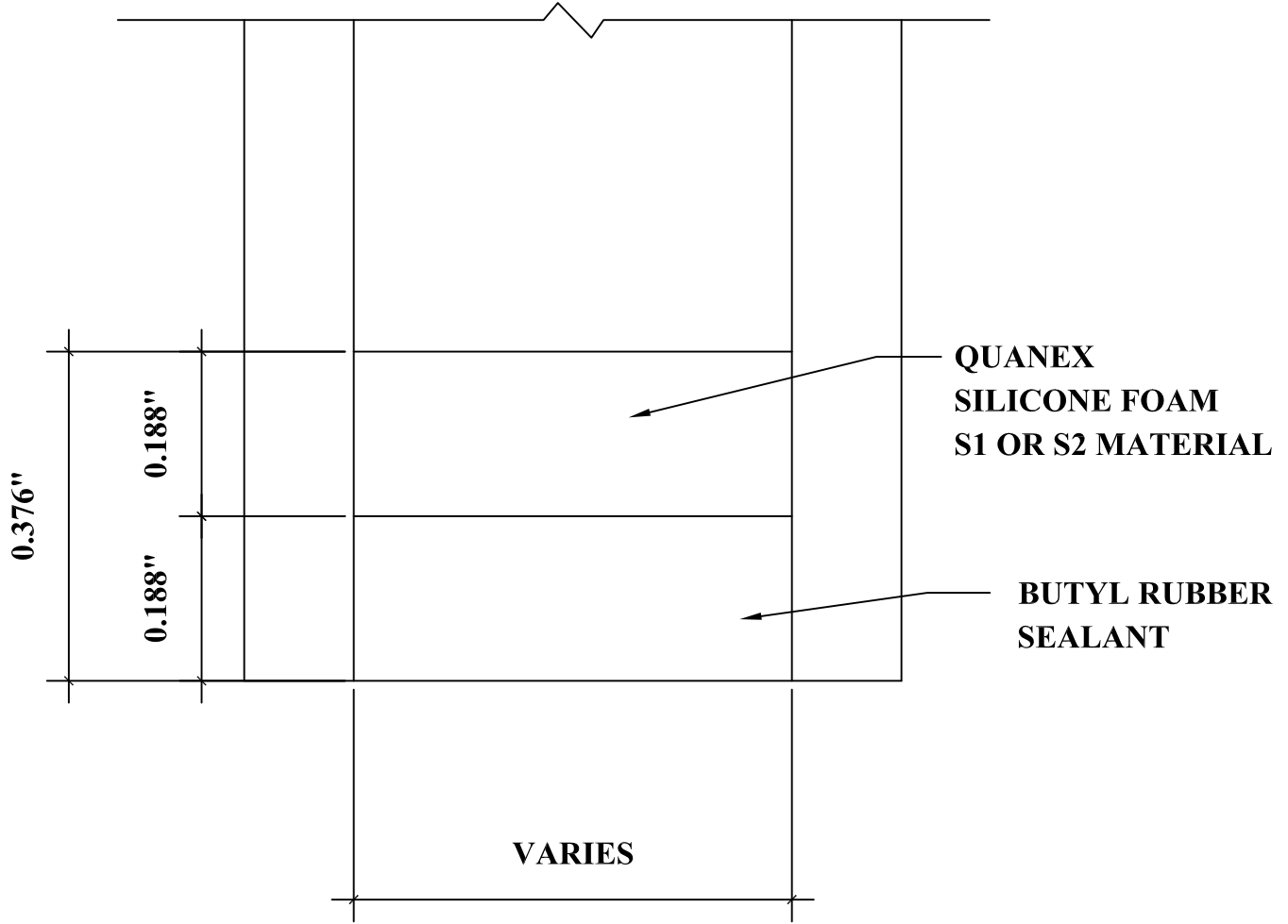
Material : Painted Aluminum Alloy



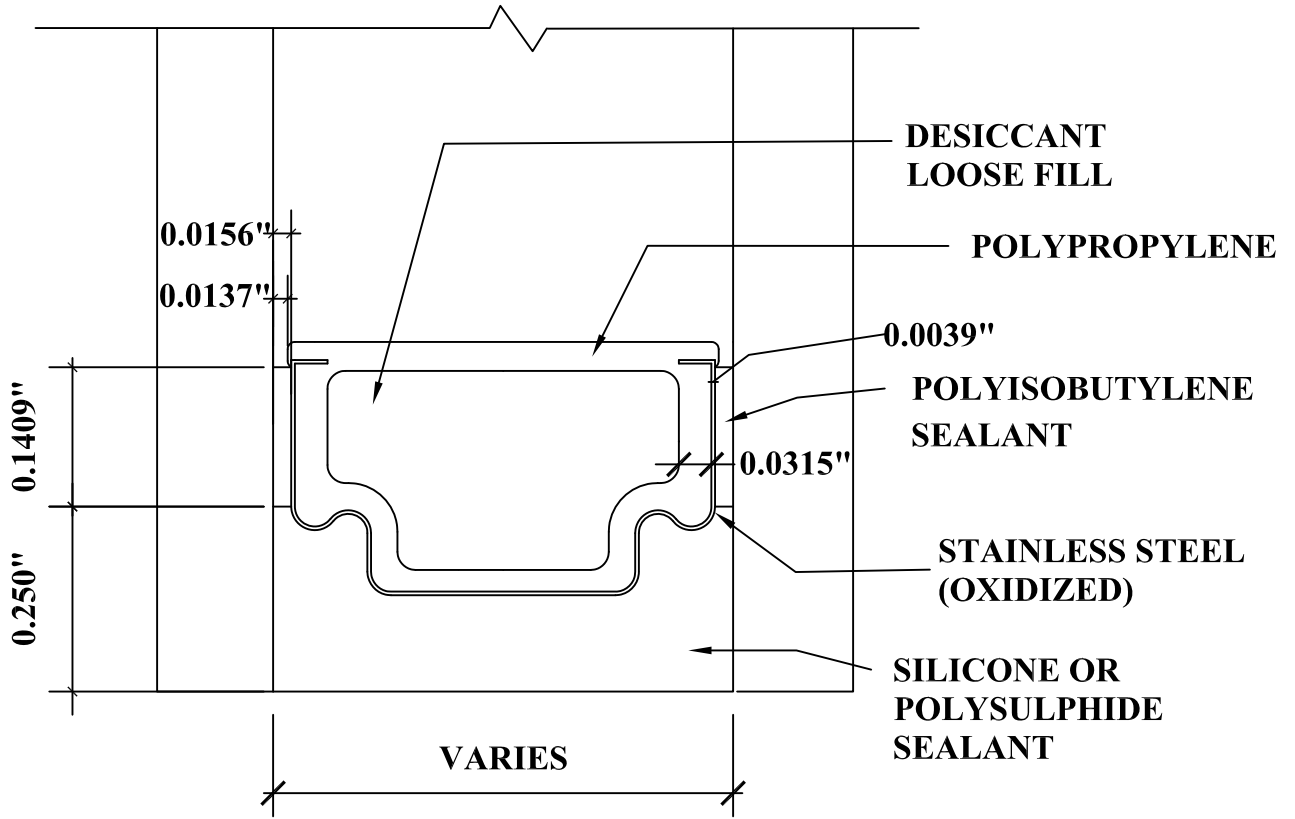
DETAIL FOR THERMAL MODELING OF ALLMETAL LPX ANODIZED ALUMINUM SPACER



DETAIL FOR THERMAL MODELING OF
CARDINAL ENDUR SPACER (SS-D)



DETAIL FOR THERMAL MODELING OF
QUANEX SUPER SPACER PREMIUM (ZF-S)



DETAIL FOR THERMAL MODELING OF
TECHNOFORM TGI SPACER - TIS (TS-D)



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

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

TEST REPORT FOR EAGON WINDOWS & DOORS CO., LTD.

Report No: M3775.02-116-45 R1

Date: 12/20/21

SECTION 8

REVISION LOG

REVISION #	DATE	PAGES	REVISION
.01 R0	07/22/21	N/A	Original report issue.
.02 R0	09/29/21	N/A	Added option 61-134
.02 R1	12/20/21	N/A	Updated assembly drawings for clarification.