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EAGON WINDOWS & DOORS CO., LTD.

COMPUTER SIMULATION REPORT

SCOPE OF WORK
ESS 145 LS - NFRC 100/200/500

REPORT NUMBER
M3777.01-116-45 R0

TEST DATE
07/12/21

ISSUE DATE
07/12/21

RECORD RETENTION END DATE
07/12/26

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51

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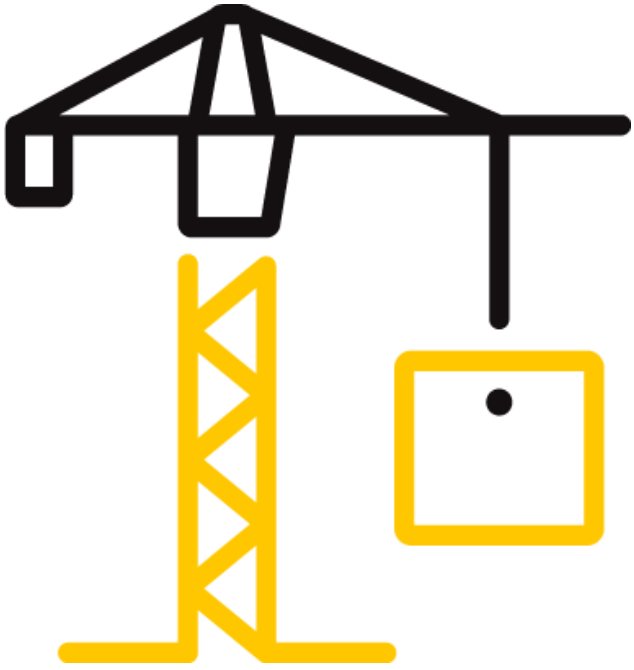

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TEST REPORT FOR EAGON WINDOWS & DOORS CO., LTD.
Report No: M3777.01-116-45 R0
Date: 07/12/21

REPORT ISSUED TO
EAGON WINDOWS & DOORS CO., LTD.
91 Yeomjeon-ro
Incheon, Enter State 22107

SECTION 1
SUMMARY

SERIES/MODEL: ESS 145 LS

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 P. Spencer	**REVIEWED BY:**	Eric S. Leitner
TITLE:	Project Engineer	**TITLE:**	Manager - Simulations and Thermal Testing, SIRC
SIGNATURE:	Jonathan Spencer Digitally Signed by: Jonathan Spencer	**SIGNATURE:**	Eric S. Leitner Digitally Signed by: Eric S. Leitner
DATE:	07/12/21	**DATE:**	07/12/21

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 80.0

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	ESS 145 LS
PRODUCT TYPE	Sliding Glass Door, Sliding Glass Door (XX or OX)
FRAME MATERIAL	AT - Aluminum w/ Thermal Breaks - All Members
SASH MATERIAL	AT - Aluminum w/ Thermal Breaks - All Members
STANDARD SIZE	2000mm x 2000mm

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SECTION 4 (Continued)
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	2 rows	Sash perimeter

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	0.007739	0.010873	0.013792
SHGC1	0.754253	0.661882	0.575828
VT0	0.000000	0.000000	0.000000
VT1	0.746514	0.651009	0.562037

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

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

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SECTION 6
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (ESS 145 LS)

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	E272 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.042(#2)	CL	SS-D	N
	U-Factor		**0.37**	**SHGC(N)**			**0.31**		**VT(N)**	**0.52**	**CR**	**50**
2	E366 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.224	0.500	0.224					ARG90	0.020(#2)	CL	SS-D	N
	U-Factor		**0.37**	**SHGC(N)**			**0.21**		**VT(N)**	**0.47**	**CR**	**50**
3	E270 / air / i89 (6mm/6mm) - 25mm IG											
	0.224	0.500	0.223					AIR	0.035(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor		**0.35**	**SHGC(N)**			**0.27**		**VT(N)**	**0.49**	**CR**	**41**
4	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)**			**0.21**		**VT(N)**	**0.46**	**CR**	**42**
5	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)**			**0.44**		**VT(N)**	**0.56**	**CR**	**43**
6	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)**			**0.27**		**VT(N)**	**0.49**	**CR**	**44**
7	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)**			**0.21**		**VT(N)**	**0.46**	**CR**	**44**
8	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)**			**0.30**		**VT(N)**	**0.53**	**CR**	**50**
9	SB70 / arg90 / i89 (6mm/6mm) - 25mm IG											
	0.223	0.500	0.223					ARG90	0.018(#2)	CL	TS-D	N
	U-Factor		**0.37**	**SHGC(N)**			**0.21**		**VT(N)**	**0.48**	**CR**	**50**
10	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		**0.40**	**SHGC(N)**			**0.21**		**VT(N)**	**0.46**	**CR**	**51**

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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (ESS 145 LS)

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)	
11	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) 0.20**					**VT(N) 0.46**		**CR 51**	
12	SNX 62/27 / air / IS-20 (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.020(#2) / 0.198(#4)	CL	ZF-S	N
	U-Factor 0.35			**SHGC(N) 0.20**					**VT(N) 0.45**		**CR 43**	
13	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) 0.20**					**VT(N) 0.45**		**CR 46**	
14	SN68 / air / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					AIR	0.039(#2)	CL	ZF-S	N
	U-Factor 0.40			**SHGC(N) 0.23**					**VT(N) 0.43**		**CR 51**	
15	SN68 / arg90 / clr (6mm/6mm) - 25mm IG											
	0.221	0.500	0.221					ARG90	0.039(#2)	CL	ZF-S	N
	U-Factor 0.37			**SHGC(N) 0.23**					**VT(N) 0.43**		**CR 51**	
16	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) 0.22**					**VT(N) 0.42**		**CR 46**	
17	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 0.42			**SHGC(N) 0.18**					**VT(N) 0.38**		**CR 46**	
18	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) 0.18**					**VT(N) 0.38**		**CR 48**	
19	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) 0.17**					**VT(N) 0.37**		**CR 37**	
20	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) 0.17**					**VT(N) 0.37**		**CR 39**	

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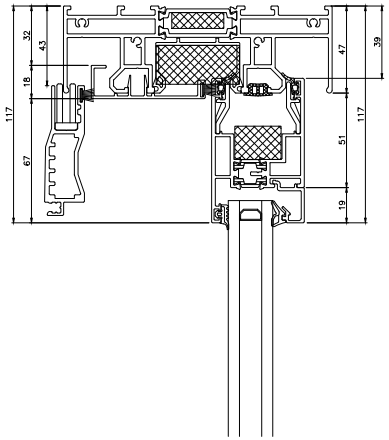
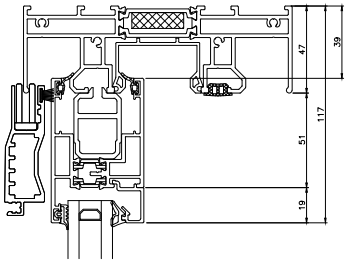
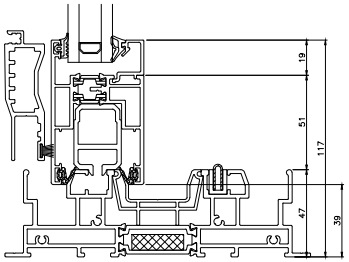
SECTION 7
DRAWINGS / BILL OF MATERIALS

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.







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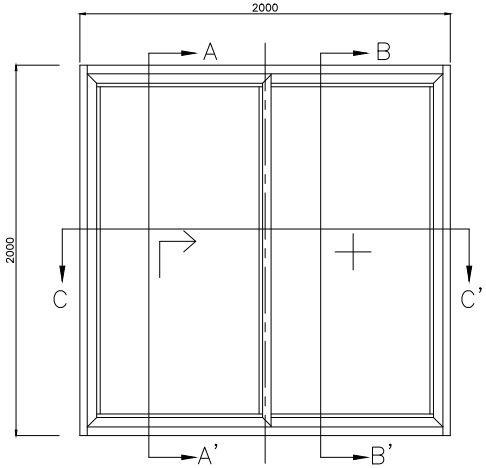

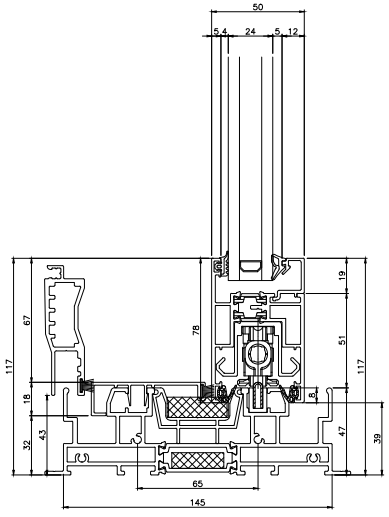

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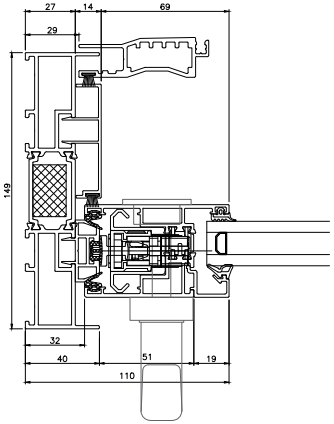

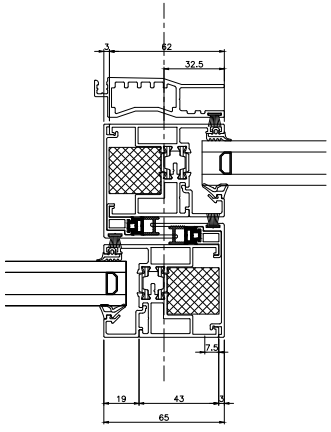

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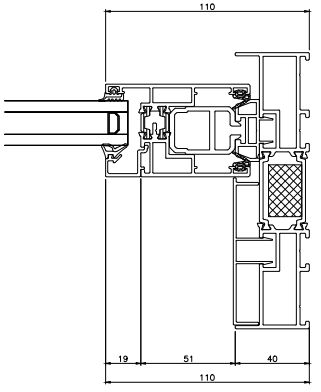

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SYSTEM
ESS 70 SD MT

NOTE.

REV.	DESCRIPTION	DATE
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CODE NO.
NFRC–01
#1

PROJECT TITLE

DRAWING NAME

DRAWING BY	
CHECKED BY	DATE
APPROVED BY	DRAWING NO
FILE NAME	

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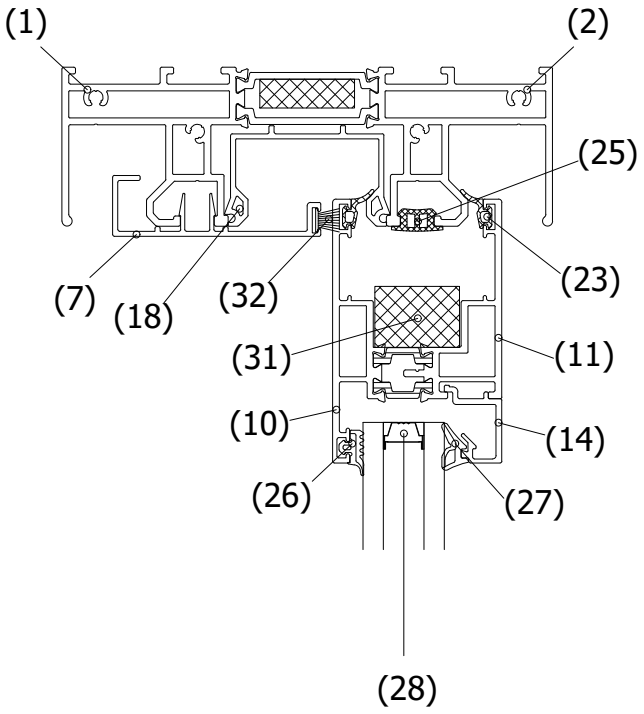
Digitally Signed by: Jonathan Spencer

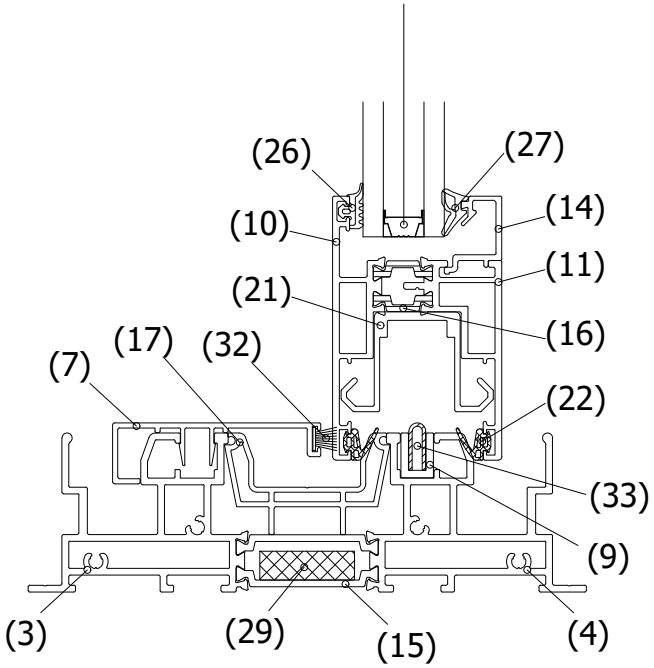
Bill of Materials	Appendix-A	Material
Part Identification	Part Number	Metrial
Frame Head OUT	(1)	Painted Aluminum Alloy
Frame Head IN	(2)	Painted Aluminum Alloy
Frame Sill OUT	(3)	Painted Aluminum Alloy
Frame Sill IN	(4)	Painted Aluminum Alloy
Frame Jamb OUT	(5)	Painted Aluminum Alloy
Frame Jamb IN	(6)	Painted Aluminum Alloy
Frame Head/Sill Cover	(7)	Painted Aluminum Alloy
Frame Jamb Cover 1	(8)	Painted Aluminum Alloy
Frame Sill Rail Supporter	(9)	Painted Aluminum Alloy
Vent OUT	(10)	Painted Aluminum Alloy
Vent IN	(11)	Painted Aluminum Alloy
Vent Center OUT	(12)	Painted Aluminum Alloy
Vent Center IN	(13)	Painted Aluminum Alloy
Glazing Bead	(14)	Painted Aluminum Alloy
Frame Insulation Bar	(15)	Polyamide 6.6 with 25%
Vent Insulation Bar	(16)	Polyamide 6.6 with 25%
Frame Sill Attach	(17)	PVC
Frame Head Attach	(18)	PVC
Frame Jamb Attach	(19)	PVC
Vent Cover Attach	(20)	PVC
Carriage Support	(21)	PVC
Vent Bottom/Stile Gasket	(22)	EPDM / EPDM Sponge
Vent Top Gasket	(23)	EPDM / EPDM Sponge
Center Cover Gasket	(24)	EPDM / EPDM Sponge
Frame Gasket	(25)	EPDM / EPDM Sponge
Outside Glazing Gasket	(26)	EPDM / EPDM Sponge
Inside Glazing Gasket	(27)	EPDM / EPDM Sponge
Spacer	(28)	Polyisobutylene(PIB)
		Stainless Steel
		Silicone
Frame Sill Insulation Foam	(29)	Polyurethane Foam
Frame Jamb Insulation Foam	(30)	Polyurethane Foam
Vent Top Insulation Foam	(31)	Polyurethane Foam
Vent Stile Insulation Foam	(32)	Polyurethane Foam
Frame Sill Rail	(33)	Stainless Steel
Frame Jamb Cover 2	(34)	Painted Aluminum Alloy

Assembly Views : Vertical Section

Vent Head

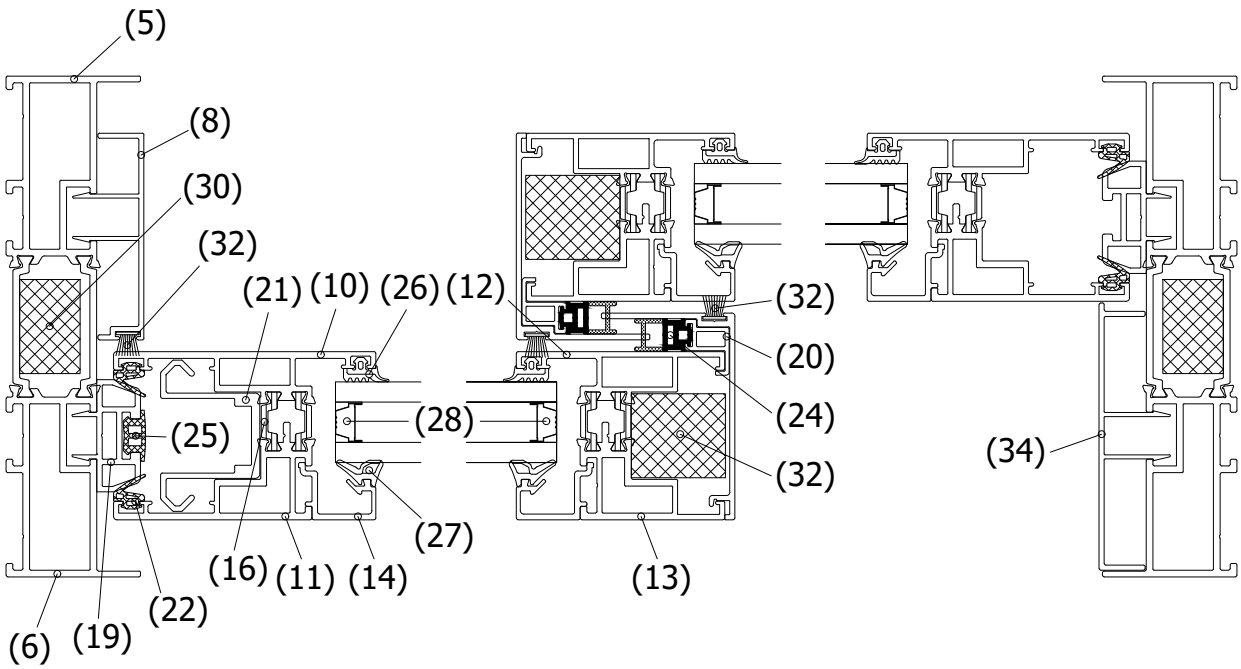


Vent Sill



Assembly Views : Horizontal Section

Vent Jamb



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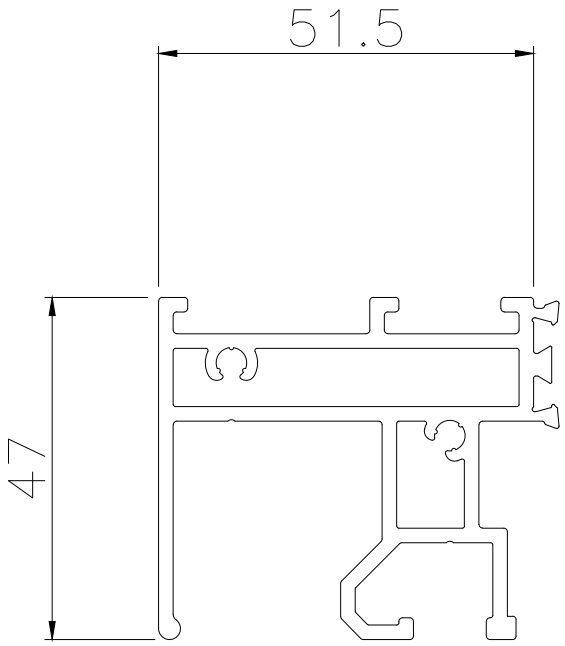
Frame Head OUT



Material : Painted Aluminum Alloy

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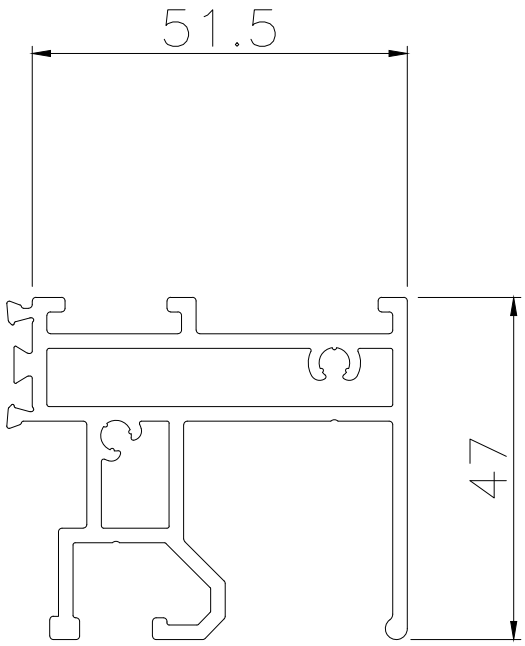
no.02

Frame Head IN



Material : Painted Aluminum Alloy

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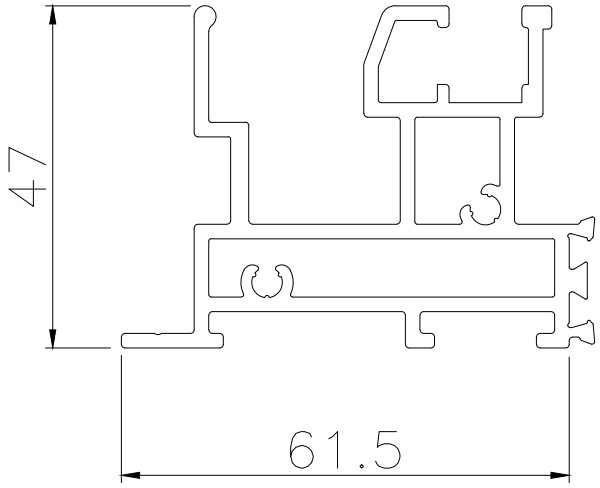
no.03

Frame Sill OUT



Material : Painted Aluminum Alloy

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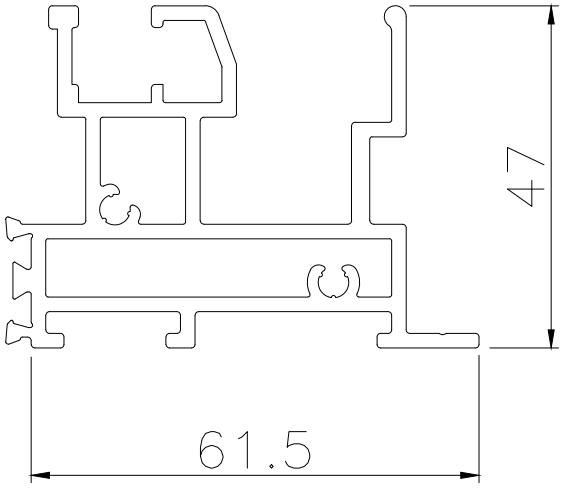
no.04

Frame Sill IN



Material : Painted Aluminum Alloy

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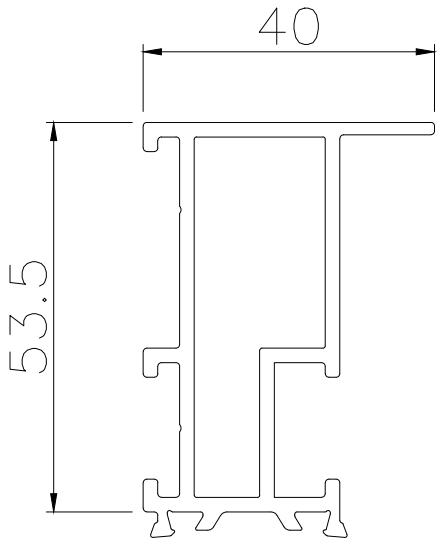
no.05

Frame Jamb OUT



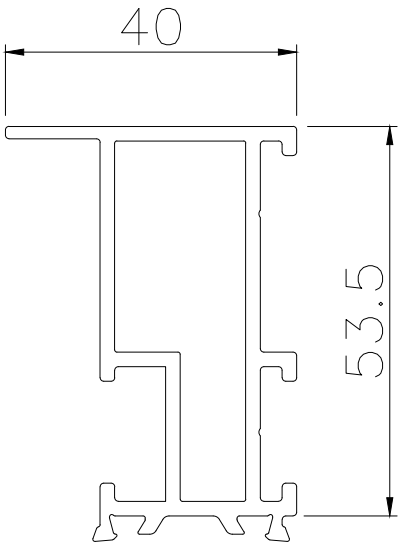
Material : Painted Aluminum Alloy

intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.06

Frame Jamb IN



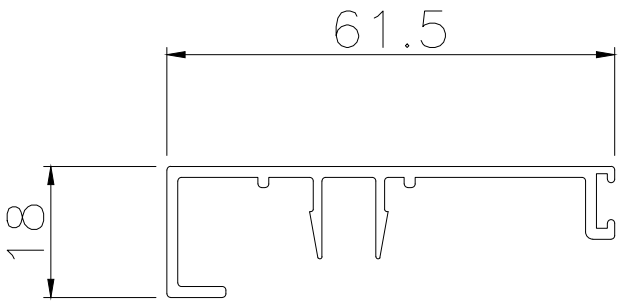
Material : Painted Aluminum Alloy

intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.07

Frame Head/Sill Cover



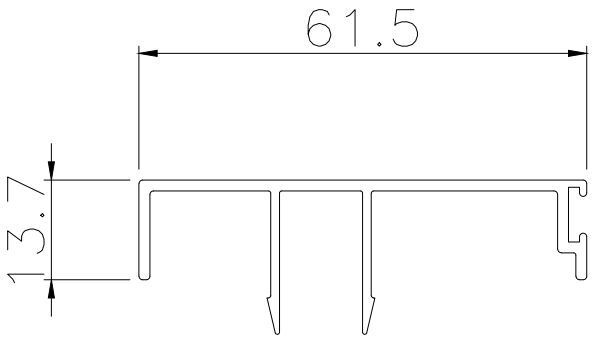
Material : Painted Aluminum Alloy

intertek
Total Quality. Assured.

Report #: M3777-116-45
Date: 7/12/2021
Verified by: Jonathan Spence

no.08

Frame Jamb Cover 1



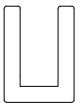
Material : Painted Aluminum Alloy

intertek
Total Quality. Assured.

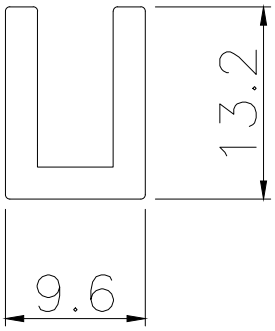
Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.09

Frame Sill Rail Supporter



ACTUAL SIZE



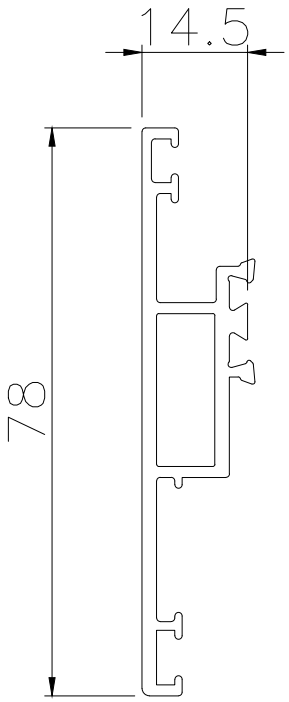
Material : Painted Aluminum Alloy

intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.10

Vent OUT



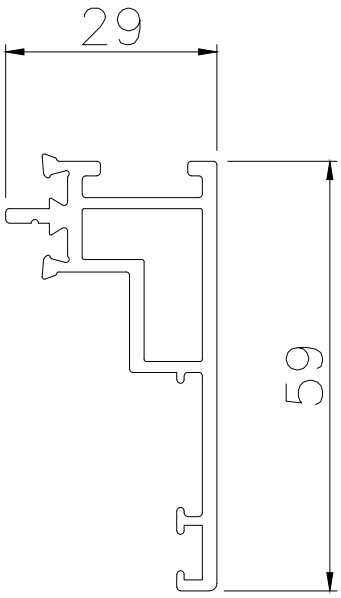
Material : Painted Aluminum Alloy

intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.11

Vent IN



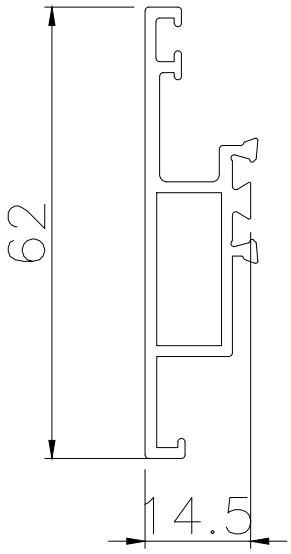
Material : Painted Aluminum Alloy

intertek
Total Quality. Assured.

Report #: M3777-116-45
Date: 7/12/2021
Verified by: Jonathan Spence

no.12

Vent Center OUT



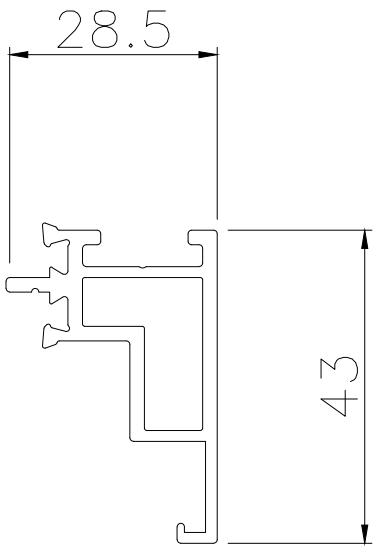
Material : Painted Aluminum Alloy

intertek
Total Quality. Assured.

Report #: M3777-116-45
Date: 7/12/2021
Verified by:

no.13

Vent Center IN



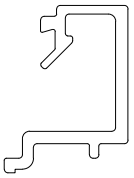
Material : Painted Aluminum Alloy

intertek
Total Quality. Assured.

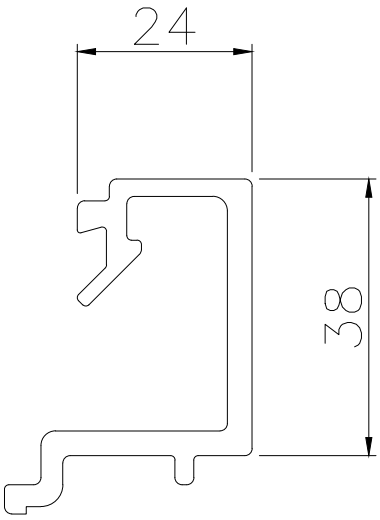
Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.14

Glazing Bead



ACTUAL SIZE



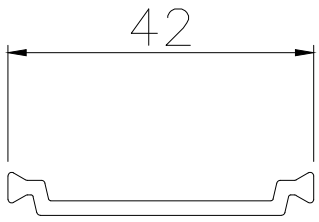
Material : Painted Aluminum Alloy

intertek
Total Quality. Assured.

Report #: M3777-116-45
Date: 7/12/2021
Verified by: Jonathan Spence

no.15

Frame Insulation Bar



Material : Polyamide 6.6 with 25% glass fiber

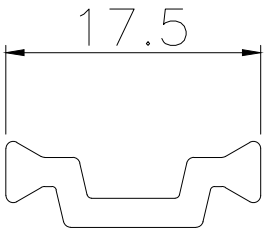
intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.16

Vent Insulation Bar

ACTUAL SIZE



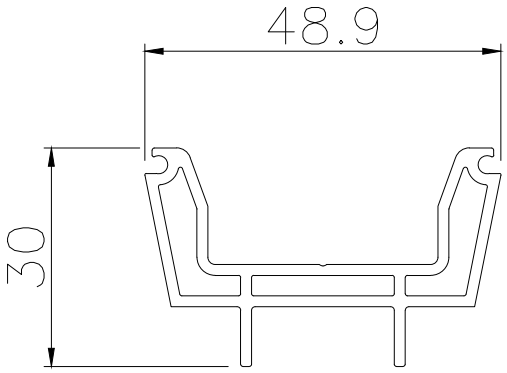
Material : Polyamide 6.6 with 25% glass fiber

intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.17

Frame Sill Attach



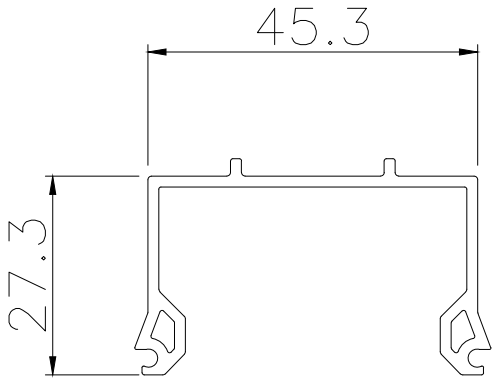
Material : PVC

intertek
Total Quality. Assured.

Report #: M3777-116-45
Date: 7/12/2021
Verified by:

no.18

Frame Head Attach



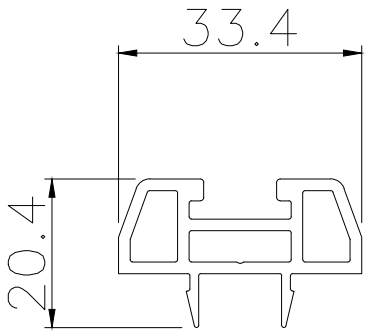
Material : PVC

intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.19

Frame Jamb Attach



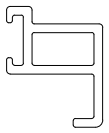
Material : PVC

intertek
Total Quality. Assured.

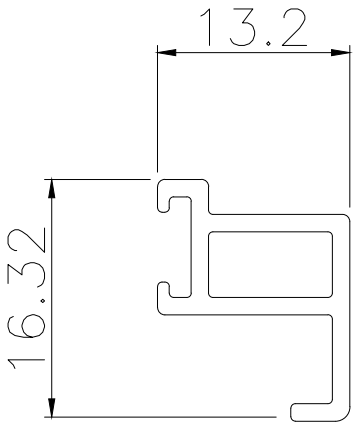
Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.20

Vent Cover Attach



ACTUAL SIZE



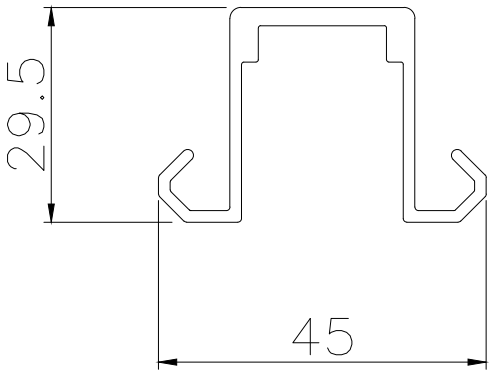
Material : PVC

intertek
Total Quality. Assured.

Report #: M3777-116-45
Date: 7/12/2021
Verified by: Jonathan Spence

no.21

Carriage Support



Material : PVC

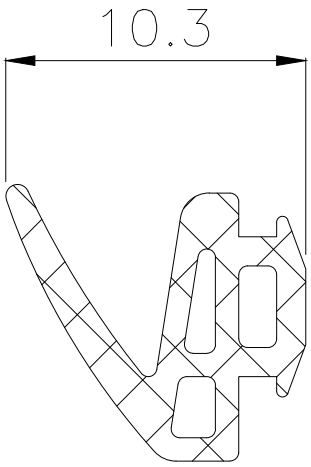
intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.22

Vent Bottom/Stile Gasket

ACTUAL SIZE



Material : EPDM / EPDM SPONGE

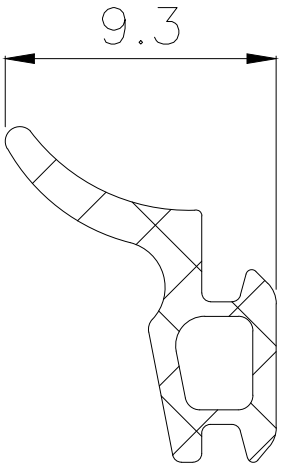
intertek
Total Quality. Assured.

Report #: M3777-116-45
Date: 7/12/2021
Verified by: Jonathan Spence

no.23

Vent Top Gasket

ACTUAL SIZE



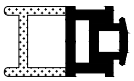
Material : EPDM / EPDM SPONGE

intertek
Total Quality. Assured.

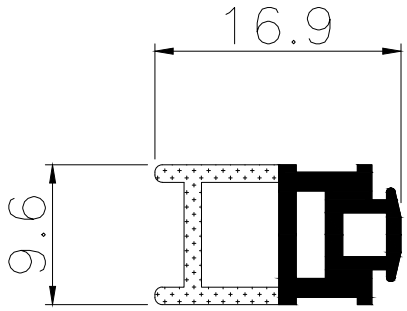
Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.24

Center Cover Gasket



ACTUAL SIZE



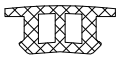
Material : EPDM / EPDM SPONGE

intertek
Total Quality. Assured.

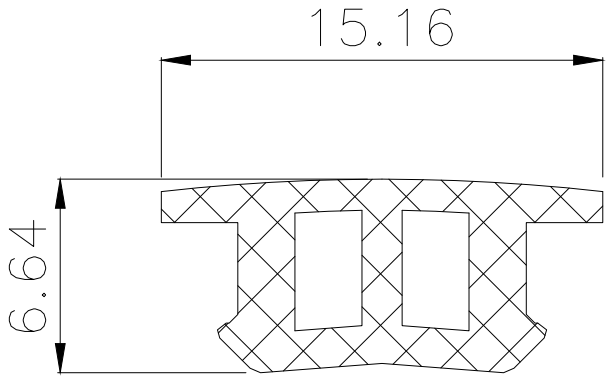
Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.25

Frame Gasket



ACTUAL SIZE



Material : EPDM / EPDM SPONGE

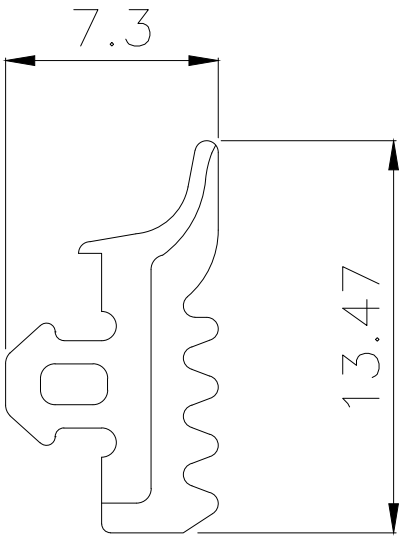
intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.26

Outside Glazing Gasket

ACTUAL SIZE



Material : EPDM / EPDM SPONGE

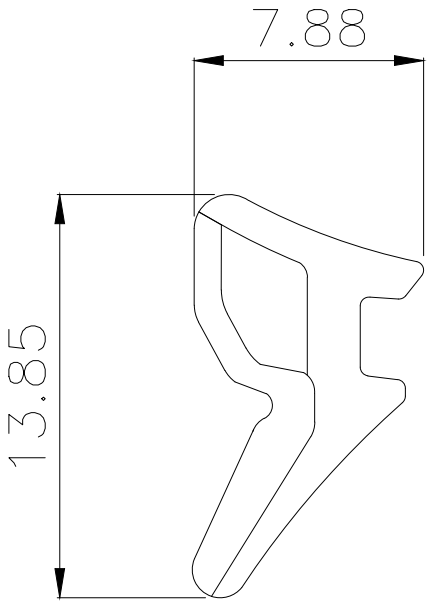
intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.27

Inside Glazing Gasket

ACTUAL SIZE



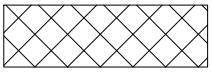
Material : EPDM / EPDM SPONGE

intertek
Total Quality. Assured.

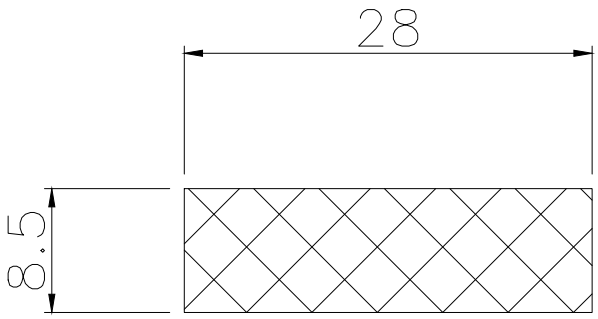
Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	

no.29

Frame Sill Insulation Foam



ACTUAL SIZE



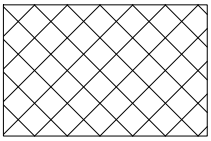
Material : Polyurethane Foam

intertek
Total Quality. Assured.

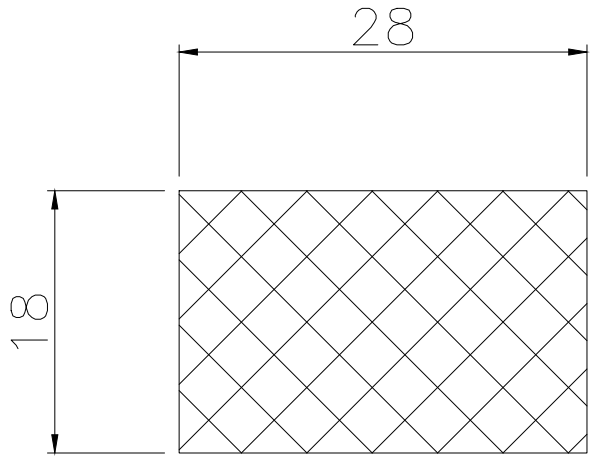
Report #: M3777-116-45
Date: 7/12/2021
Verified by:

no.30

Frame Jamb Insulation Foam



ACTUAL SIZE



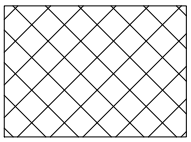
Material : Polyurethane Foam

intertek
Total Quality. Assured.

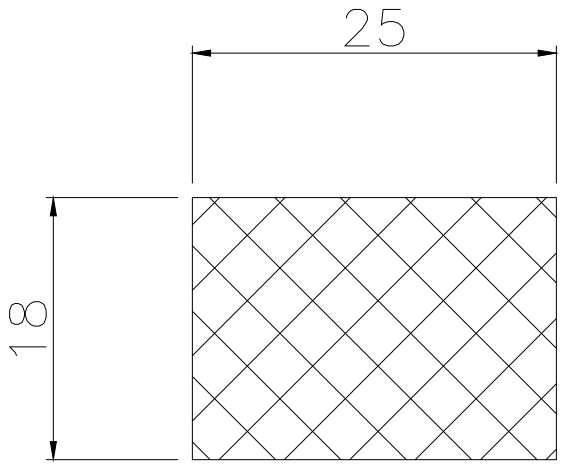
Report #: M3777-116-45
Date: 7/12/2021
Verified by: Jonathan Spence

no.31

Vent Top Insulation Foam

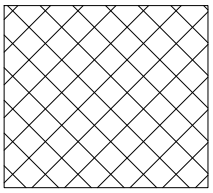


ACTUAL SIZE

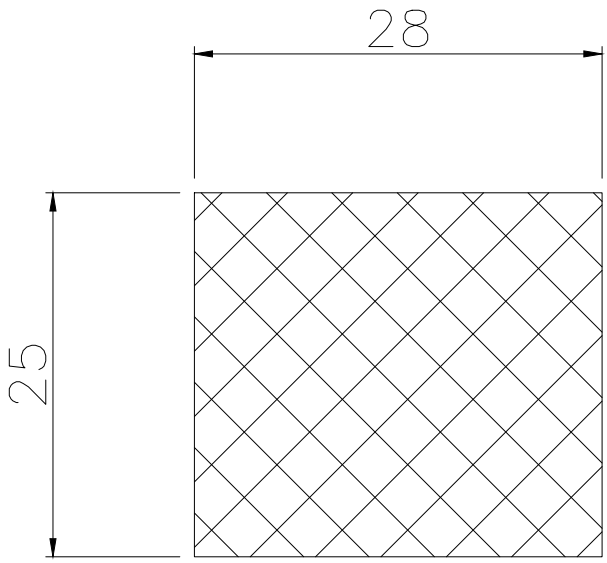


no.32

Vent Stile Insulation Foam



ACTUAL SIZE

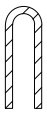


intertek
Total Quality. Assured.

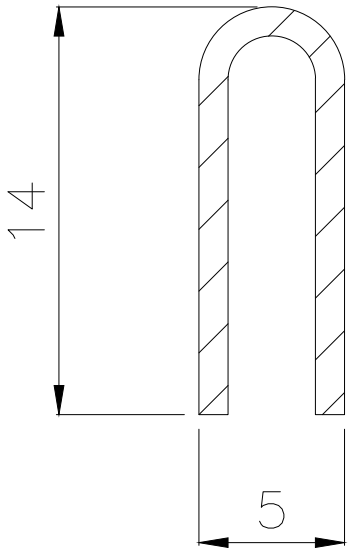
Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.33

Frame Sill Rail



ACTUAL SIZE



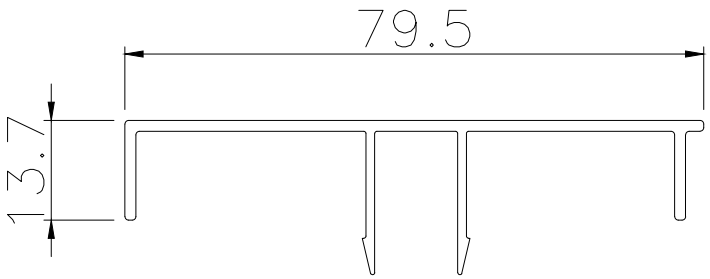
Stainless Steel

intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

no.34

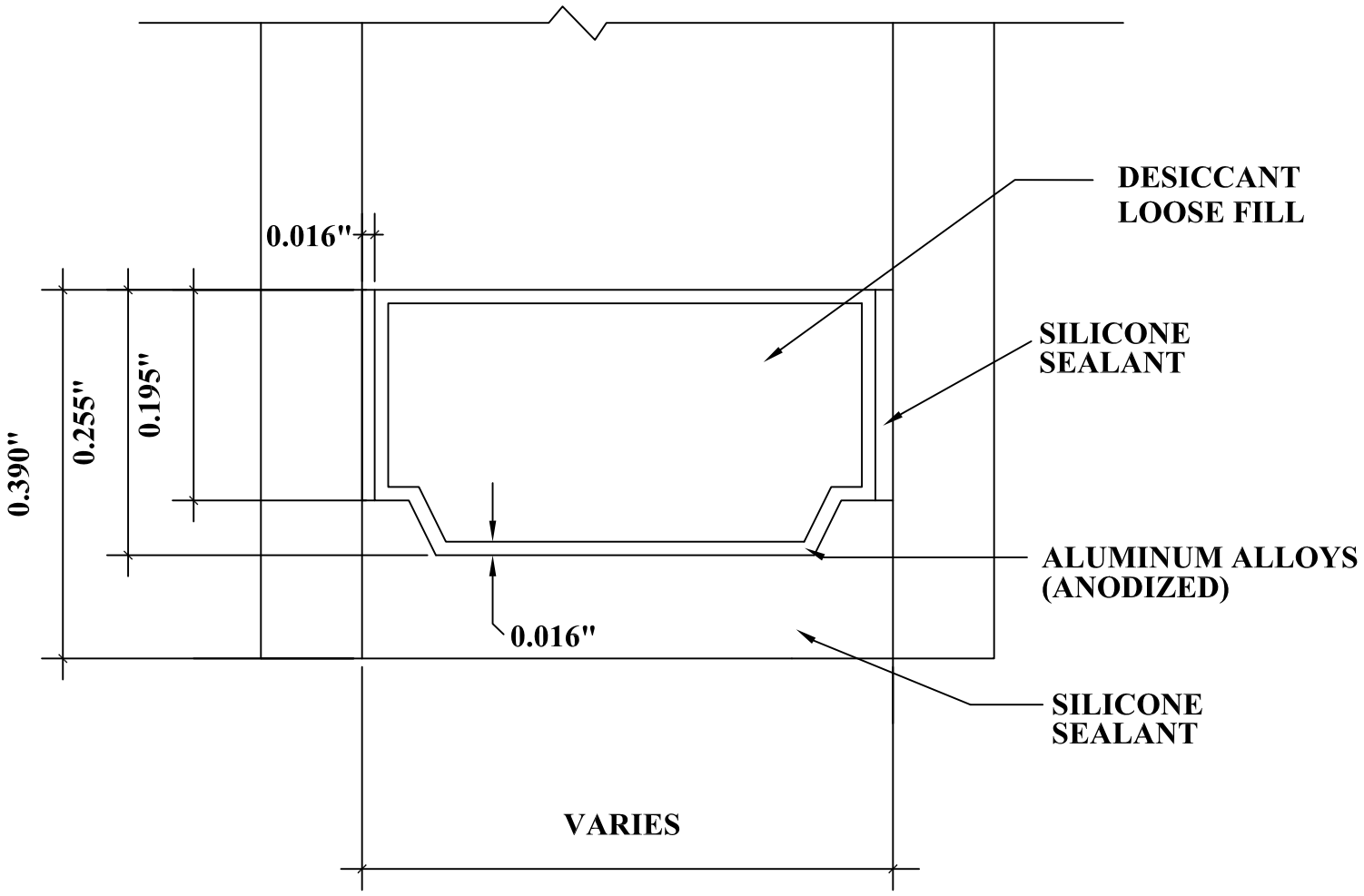
Frame Jamb Cover 2



Material : Painted Aluminum Alloy

intertek
Total Quality. Assured.

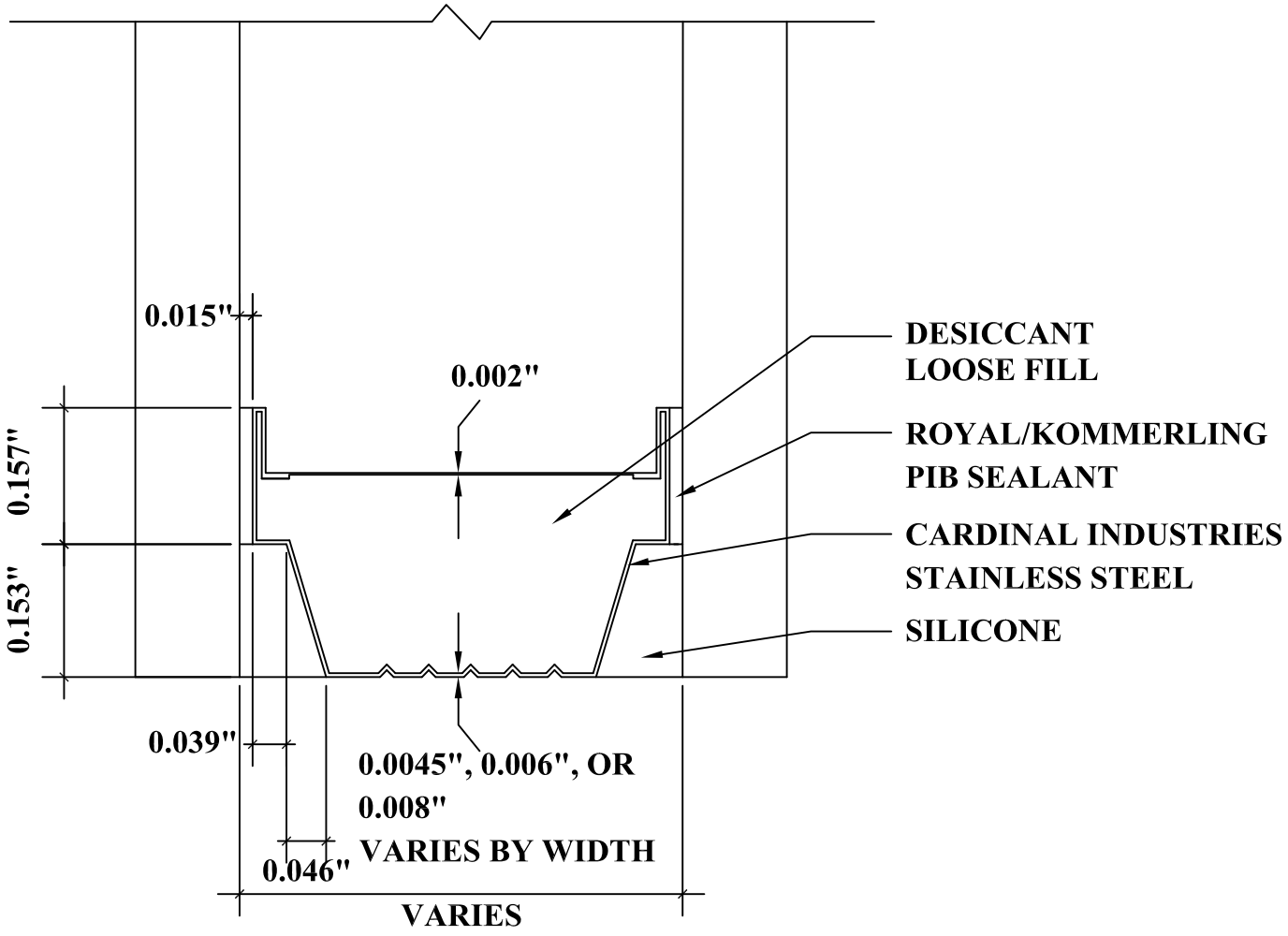
Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence



DETAIL FOR THERMAL MODELING OF
ALLMETAL LPX ANODIZED ALUMINUM SPACER

intertek
Total Quality. Assured.

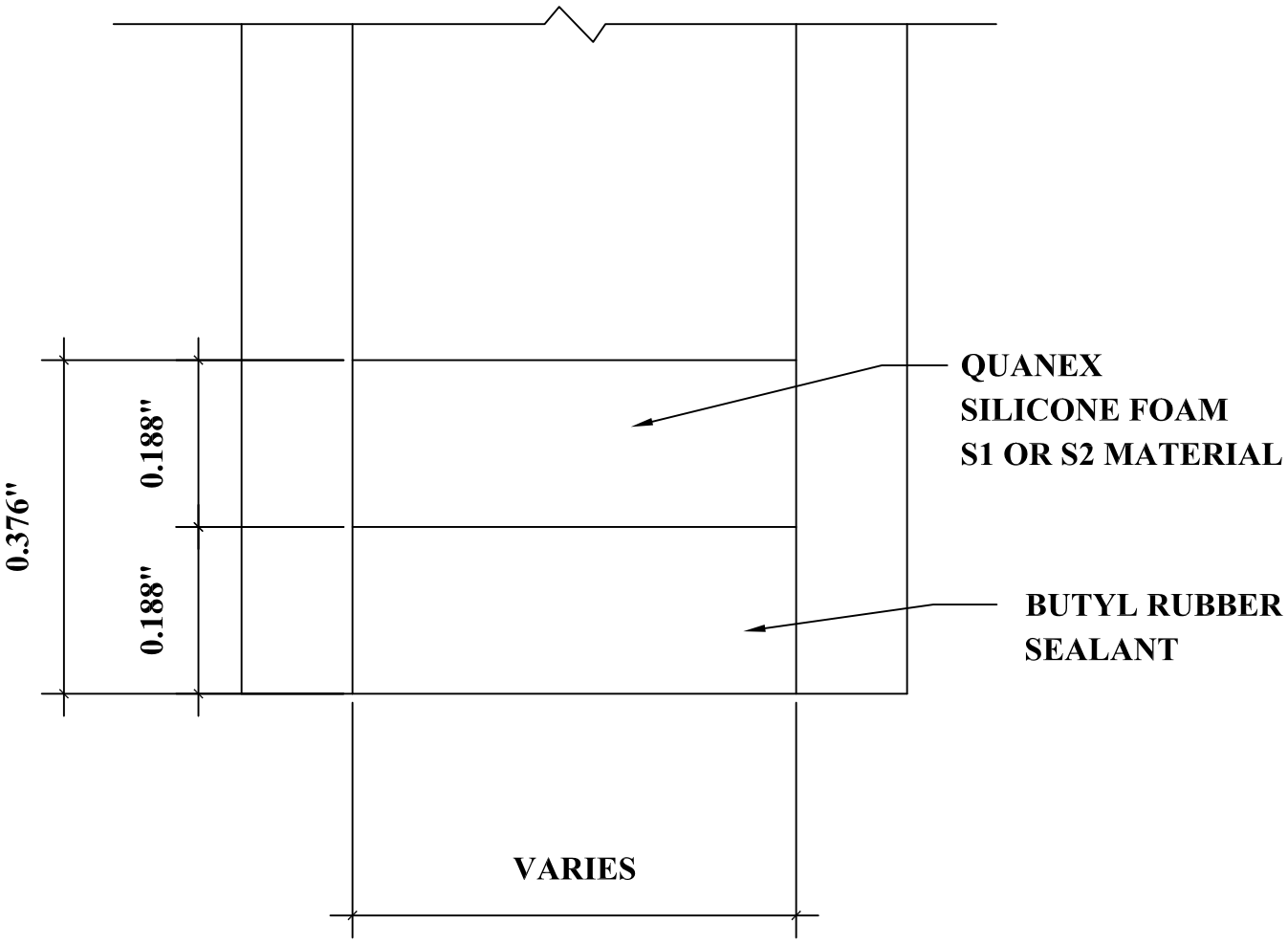
Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence



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

intertek
Total Quality. Assured.

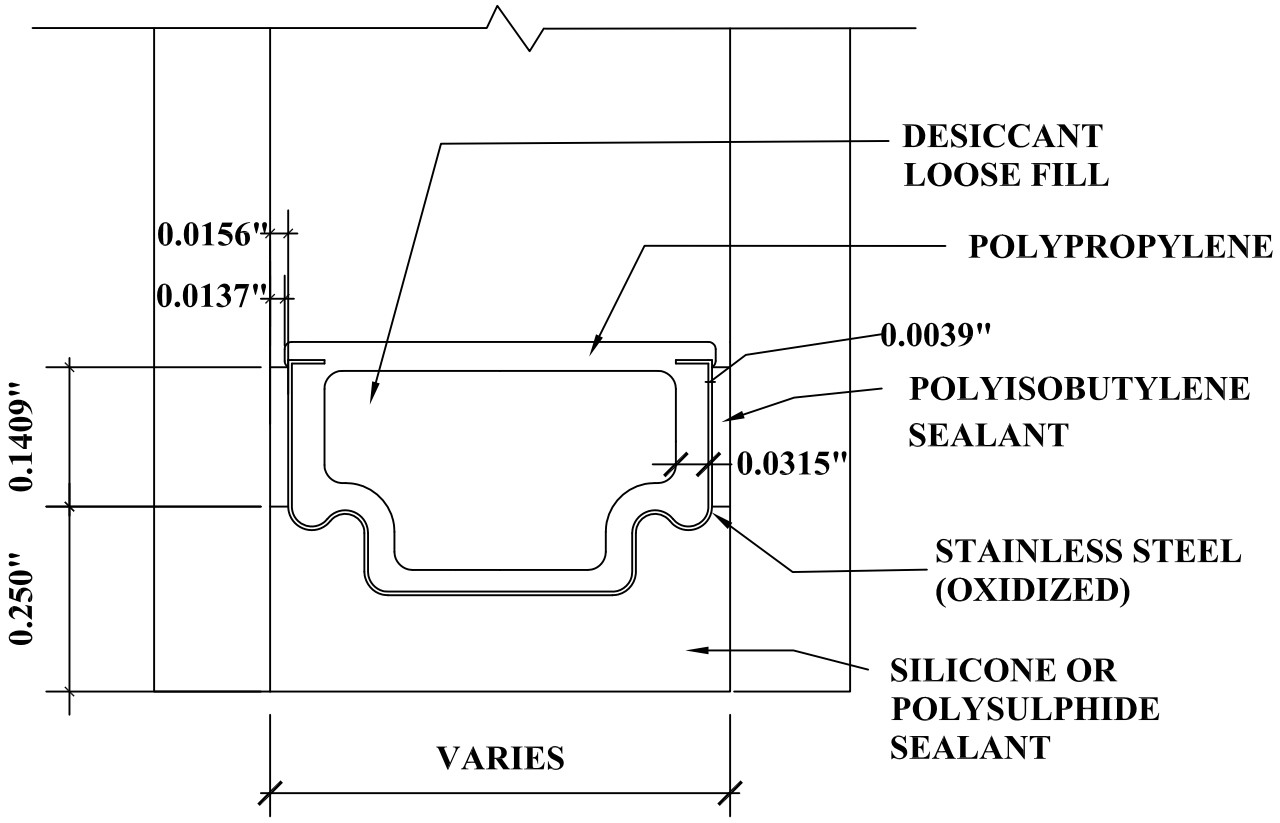
Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence



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

intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence



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

intertek
Total Quality. Assured.

Report #:	M3777-116-45
Date:	7/12/2021
Verified by:	Jonathan Spence

130 Derry Court
York, Pennsylvania 17406

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

SECTION 8
REVISION LOG

REVISION #	DATE	PAGES	REVISION
.01R0	07/12/21	N/A	Original report issue.