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NEON ENERGY
COMPUTER SIMULATION REPORT

SCOPE OF WORK
ULTRA TILT-TURN WINDOW - NFRC 100/200/500

REPORT NUMBER
P2848.01-116-45-R0 R0

TEST DATE
12/02/22

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PAGES
58

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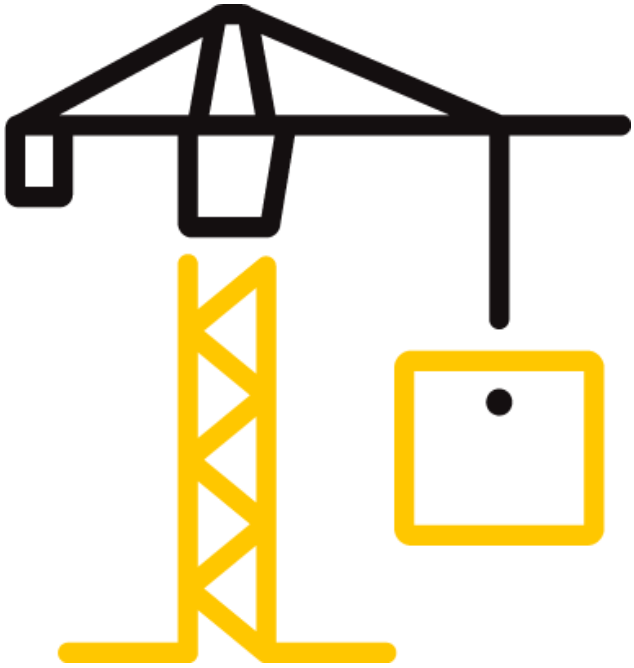
RT-R-AMER-Test-4044 (04/11/22)



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TEST REPORT FOR NEON ENERGY
Report No: P2848.01-116-45-R0 R0
Date: 12/02/22

REPORT ISSUED TO

NEON ENERGY
23 Corporate Plaza
Suite 150
Newport Beach, California 92660

SECTION 1

SUMMARY

SERIES/MODEL: Ultra Tilt-Turn Window

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

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

FOR INTERTEK B&C:

COMPLETED BY:	Megan M. Yingst	**REVIEWED BY:**	Eric S. Leitner
TITLE:	Simulation Technician	**TITLE:**	Manager - Simulations and Thermal Testing, SIRC
SIGNATURE:		**SIGNATURE:**	 Digitally Signed by: Eric S. Leitner
DATE:	12/02/22	**DATE:**	12/02/22

MMY:mmy

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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 88.0

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) TVO-921, TVO-922 and TVO-927 frame options were grouped per ANSI/NFRC 100-2020, Section 4.2.1.H.ii. TVO-927 is the group leader.
3) TVO-901 and TVO-911 sash options were grouped per ANSI/NFRC 100-2020, Section 4.2.1.I.v. TVO-911 is the group leader.
4) The anodized and painted aluminum finishes were grouped per ANSI/NFRC 100-2020, Section 4.2.1.L. The painted finish is the group leader.

SECTION 4
SIMULATION SPECIMEN DESCRIPTION

SERIES/MODEL	Ultra Tilt-Turn Window
PRODUCT TYPE	Dual Action (Tilt Turn)
FRAME MATERIAL	AT - Aluminum w/ Thermal Breaks - All Members
SASH MATERIAL	AT - Aluminum w/ Thermal Breaks - All Members
STANDARD SIZE	1200mm x 1500mm

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SECTION 4 (Continued)
SIMULATION SPECIMEN DESCRIPTION

SPACER OPTIONS			
TYPE	***PRIMARY SEAL***	***SECONDARY SEAL***	***CODE***
Aluminum Spacer	Butyl Rubber	Butyl Rubber	A1-D
Thermix TX.N Plus Spacer	Butyl Rubber	Silicone	TS-D

GRID OPTIONS		
GRID SIZE	***GRID TYPE***	***GRID PATTERN***
None	-	-

REINFORCEMENT OPTIONS	
LOCATION	***MATERIAL***
None	-

GAS FILLING TECHNIQUE	
FILL TYPE	***METHOD***
90% Argon	Two-probe with concentration sensor

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

WEATHERSTRIPPING		
TYPE	***QUANTITY***	***LOCATION***
EPDM Gasket	1 row	Frame Perimeter
EPDM Gasket	1 row	Sash Perimeter

FRAME/SASH MATERIALS FINISH	
INTERIOR	Aluminum - Painted or Anodized
EXTERIOR	Aluminum - Painted or Anodized

VALIDATION MATRIX*	
PRODUCT LINE	***REPORT NUMBER***
UltraTilt-Turn Door	P2846.01-116-45
Ultra Tilt-Turn Window	P2848.01-116-45
Ultra Inswing Casement Window	P2849.01-116-45
Ultra Hopper Window	P2850.01-116-45

**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	0.007014	0.009680	0.012187
SHGC1	0.725013	0.646735	0.573137
VT0	0.000000	0.000000	0.000000
VT1	0.717999	0.637055	0.560950

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

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

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TEST REPORT FOR NEON ENERGY
Report No: P2848.01-116-45-R0 R0
Date: 12/02/22

SECTION 6
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Ultra Tilt-Turn Window)														
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)					Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)	
1	SNX50/ARG90/CLR (6MM/5MM) - 27MM IG											
	0.230	0.630	0.191					ARG90	0.027(#2)	CL	A1-D	N
	U-Factor		**0.36**	**SHGC(N)**			**0.17**		**VT(N)**	**0.36**	**CR**	**48**
2	SNX60/ARG90/CLR (6MM/5MM) - 27MM IG											
	0.230	0.630	0.191					ARG90	0.026(#2)	CL	A1-D	N
	U-Factor		**0.36**	**SHGC(N)**			**0.20**		**VT(N)**	**0.43**	**CR**	**48**
3	SN4023/ARG90/CLR (6MM/5MM) - 27MM IG											
	0.230	0.630	0.191					ARG90	0.026(#2)	CL	A1-D	N
	U-Factor		**0.36**	**SHGC(N)**			**0.16**		**VT(N)**	**0.29**	**CR**	**48**
4	SN7037/ARG90/CLR (6MM/6MM) - 28MM IG											
	0.230	0.630	0.230					ARG90	0.022(#2)	CL	A1-D	N
	U-Factor		**0.36**	**SHGC(N)**			**0.25**		**VT(N)**	**0.50**	**CR**	**48**
5	SN7037/ARG90/CLR (6MM/5MM) - 27MM IG											
	0.230	0.630	0.191					ARG90	0.022(#2)	CL	A1-D	N
	U-Factor		**0.36**	**SHGC(N)**			**0.25**		**VT(N)**	**0.50**	**CR**	**48**
6	SNX50/ARG90/CG-Dry (6MM/5MM) - 27MM IG											
	0.230	0.630	0.191					ARG90	0.027(#2) / 0.200(#4)	CL	TS-D	N
	U-Factor		**0.31**	**SHGC(N)**			**0.16**		**VT(N)**	**0.34**	**CR**	**51**
7	SNX50/ARG90/CG-Premium2T (6MM/6MM) - 28MM IG											
	0.230	0.630	0.230					ARG90	0.027(#2) / 0.041(#3)	CL	TS-D	N
	U-Factor		**0.34**	**SHGC(N)**			**0.17**		**VT(N)**	**0.35**	**CR**	**51**
8	SNX60/ARG90/CG-Dry (6MM/5MM) - 27MM IG											
	0.230	0.630	0.191					ARG90	0.026(#2) / 0.200(#4)	CL	TS-D	N
	U-Factor		**0.31**	**SHGC(N)**			**0.19**		**VT(N)**	**0.41**	**CR**	**51**
9	SNX60/ARG90/CG-Premium2T (6MM/6MM) - 28MM IG											
	0.230	0.630	0.230					ARG90	0.026(#2) / 0.041(#3)	CL	TS-D	N
	U-Factor		**0.34**	**SHGC(N)**			**0.20**		**VT(N)**	**0.42**	**CR**	**51**
10	SN4023/ARG90/CG-Dry (6MM/5MM) - 27MM IG											
	0.230	0.630	0.191					ARG90	0.026(#2) / 0.200(#4)	CL	TS-D	N
	U-Factor		**0.31**	**SHGC(N)**			**0.16**		**VT(N)**	**0.28**	**CR**	**51**

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TEST REPORT FOR NEON ENERGY
Report No: P2848.01-116-45-R0 R0
Date: 12/02/22

SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Ultra Tilt-Turn Window)

Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)					Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)	
11	SN4023/ARG90/CG-Premium2T (6MM/6MM) - 28MM IG											
	0.230	0.630	0.230					ARG90	0.026(#2) / 0.041(#3)	CL	TS-D	N
	U-Factor		**0.34**	**SHGC(N)**			**0.16**		**VT(N)**	**0.28**	**CR**	**51**
12	SN51/ARG90/CG-Dry (6MM/5MM) - 27MM IG											
	0.230	0.630	0.191					ARG90	0.026(#2) / 0.200(#4)	CL	TS-D	N
	U-Factor		**0.31**	**SHGC(N)**			**0.18**		**VT(N)**	**0.35**	**CR**	**51**
13	SN51/ARG90/CG-Premium2T (6MM/6MM) - 28MM IG											
	0.230	0.630	0.230					ARG90	0.026(#2) / 0.041(#3)	CL	TS-D	N
	U-Factor		**0.34**	**SHGC(N)**			**0.19**		**VT(N)**	**0.36**	**CR**	**51**
14	SN7037/ARG90/CG-Dry (6MM/6MM) - 28MM IG											
	0.230	0.630	0.230					ARG90	0.022(#2) / 0.200(#4)	CL	TS-D	N
	U-Factor		**0.31**	**SHGC(N)**			**0.25**		**VT(N)**	**0.49**	**CR**	**51**
15	SN7037/ARG90/CG-Premium2T (6MM/6MM) - 28MM IG											
	0.230	0.630	0.230					ARG90	0.022(#2) / 0.041(#3)	CL	TS-D	N
	U-Factor		**0.34**	**SHGC(N)**			**0.25**		**VT(N)**	**0.49**	**CR**	**51**
16	SN7037/ARG90/CG-Dry (6MM/5MM) - 27MM IG											
	0.230	0.630	0.191					ARG90	0.022(#2) / 0.200(#4)	CL	TS-D	N
	U-Factor		**0.31**	**SHGC(N)**			**0.25**		**VT(N)**	**0.49**	**CR**	**51**
17	SN7037/ARG90/CG-Premium2T (6MM/4MM) - 26MM IG											
	0.230	0.630	0.151					ARG90	0.022(#2) / 0.041(#3)	CL	TS-D	N
	U-Factor		**0.34**	**SHGC(N)**			**0.25**		**VT(N)**	**0.49**	**CR**	**51**
18	SN7037/ARG90/CLR/ARG90/CGPremium2T (6MM/5MM/6MM) - 39MM IG											
	0.230	0.394	0.191	0.472	0.230			ARG90	0.022(#2) / 0.041(#5)	CL	TS-D	N
	U-Factor		**0.26**	**SHGC(N)**			**0.23**		**VT(N)**	**0.45**	**CR**	**50**
19	SNX60/ARG90/CLR/ARG90/CGPremium2T (6MM/5MM/6MM) - 39MM IG											
	0.230	0.394	0.191	0.472	0.230			ARG90	0.026(#2) / 0.041(#5)	CL	TS-D	N
	U-Factor		**0.26**	**SHGC(N)**			**0.18**		**VT(N)**	**0.38**	**CR**	**50**
20	SNX60/ARG90/CLR/ARG90/CGPremium2T (6MM/4MM/4MM) - 36MM IG											
	0.230	0.394	0.151	0.472	0.151			ARG90	0.026(#2) / 0.041(#5)	CL	TS-D	N
	U-Factor		**0.26**	**SHGC(N)**			**0.18**		**VT(N)**	**0.38**	**CR**	**50**

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Report No: P2848.01-116-45-R0 R0
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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Ultra Tilt-Turn Window)													
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)					Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)	
21	SN7037/ARG90/CLR-LAMI (6MM/5MM|0,38PVB|5MM) - 32MM IG											
	0.230	0.630	0.379					ARG90	0.022(#2)	CL	TS-D	N
	U-Factor		0.35	SHGC(N)			0.25		VT(N)	0.49	CR	50

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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.

Tilt & Turn Window

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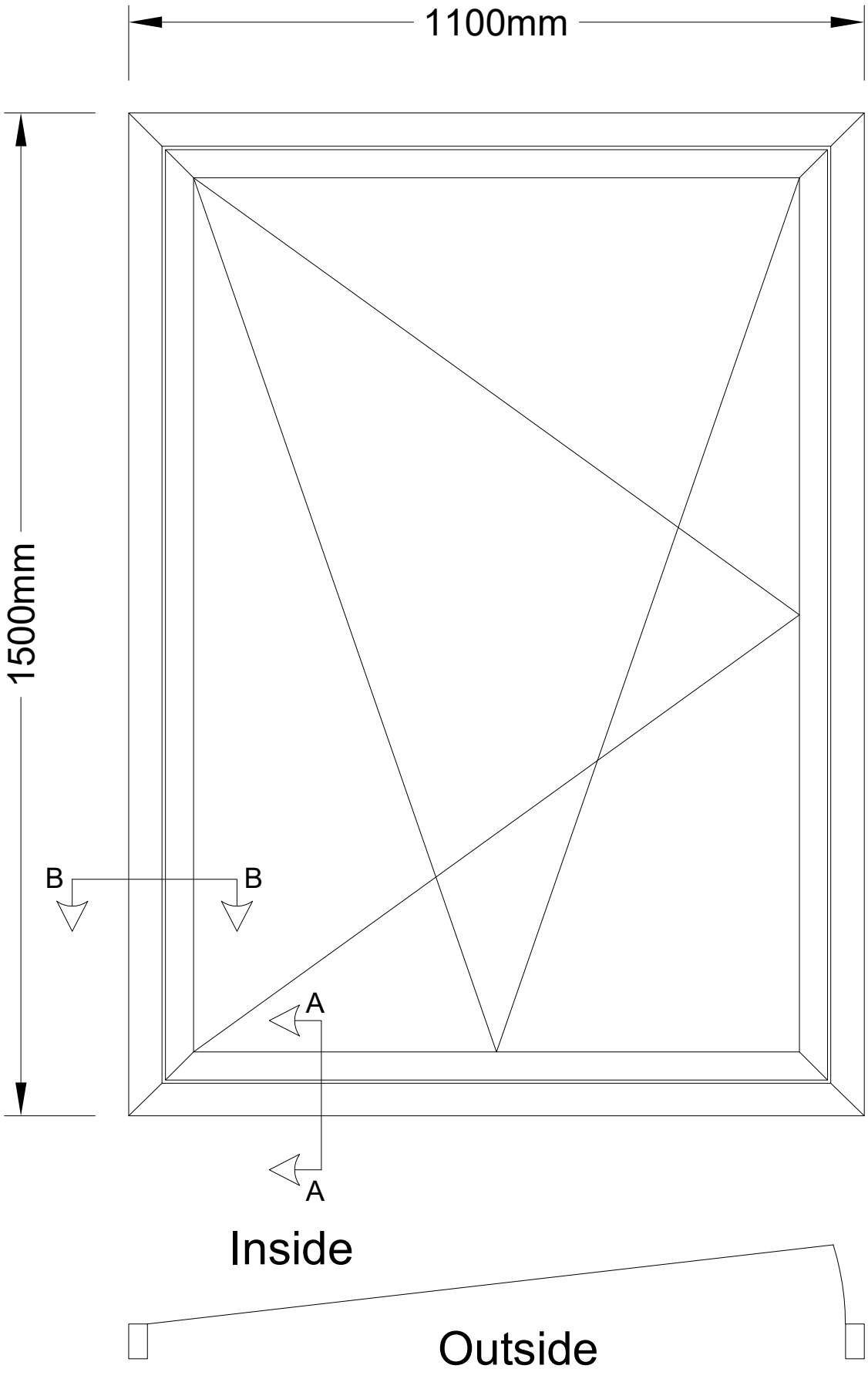

Section A-A, B-B
Frame TVO-921
Sash TVO-901

Report #:	P2848-116-45
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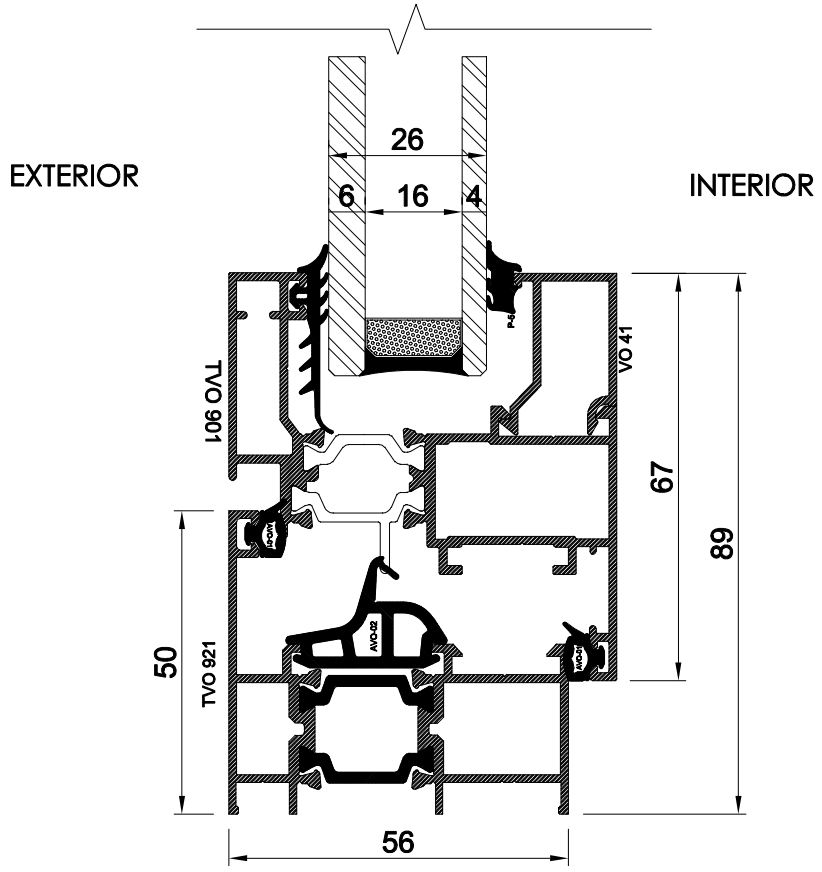

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Frame TVO-921
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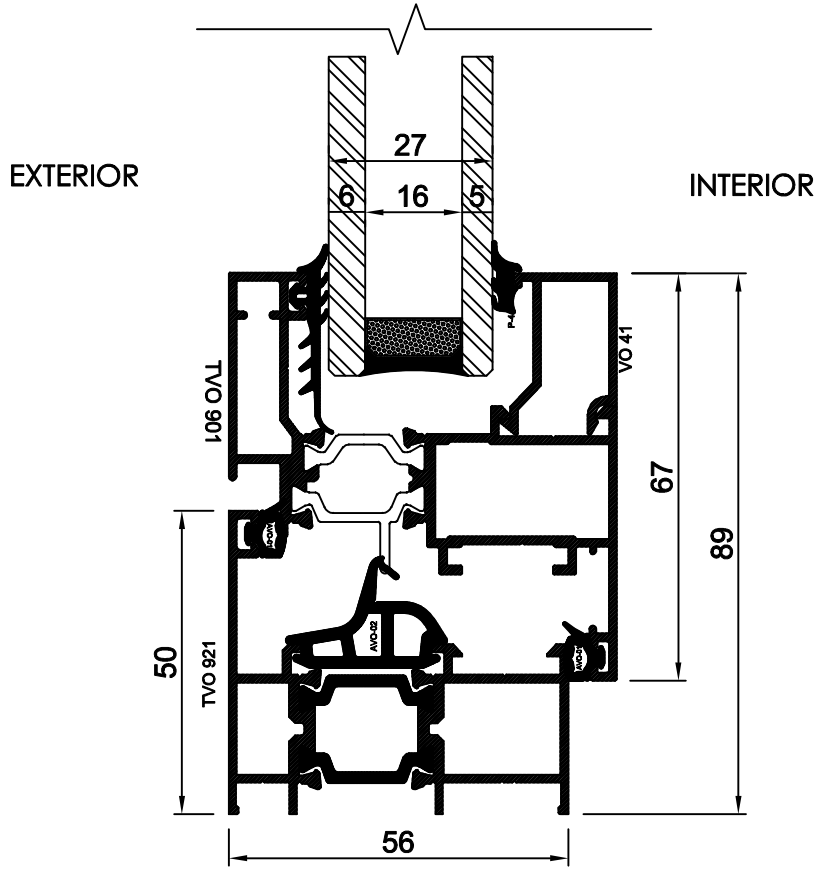

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Frame TVO-921
Sash TVO-901

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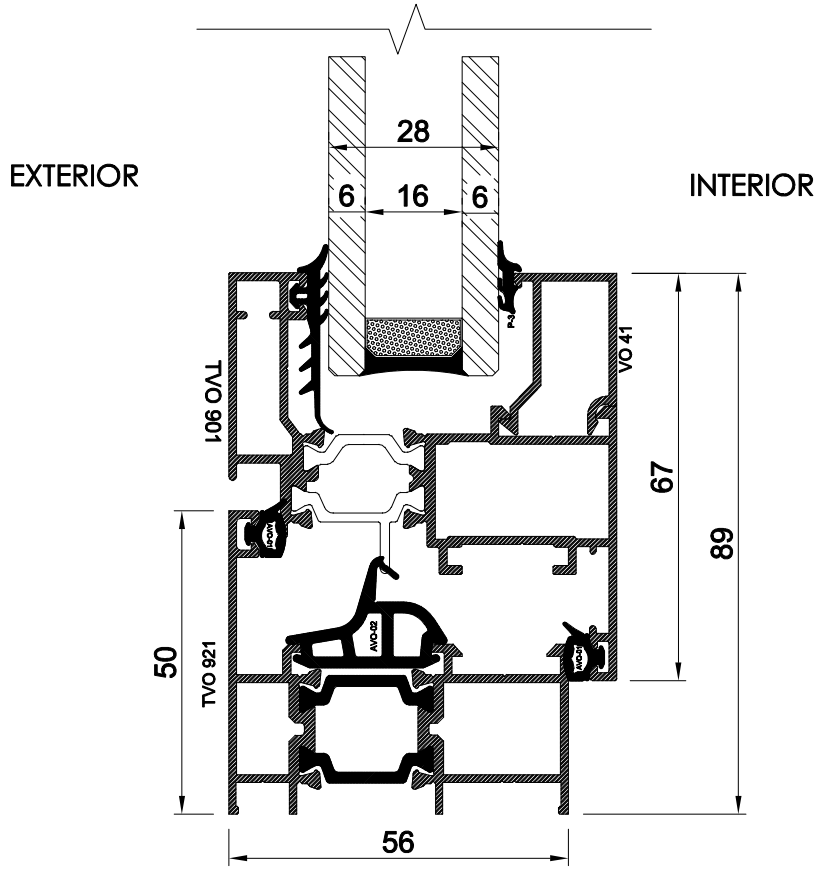

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Frame TVO-921
Sash TVO-901

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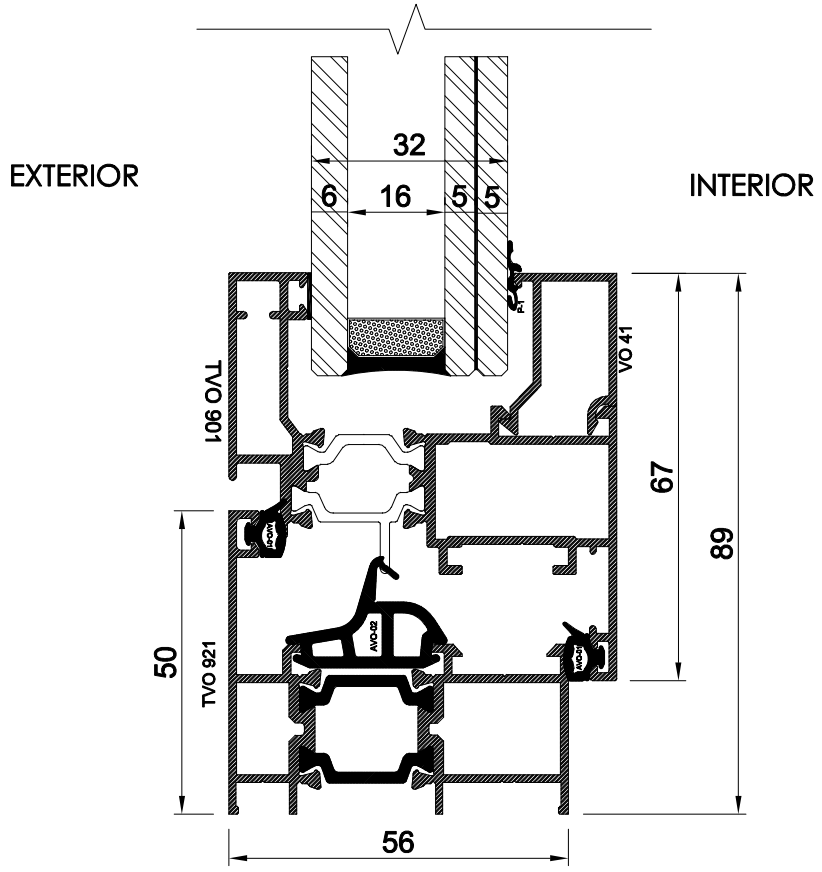

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Frame TVO-921
Sash TVO-901

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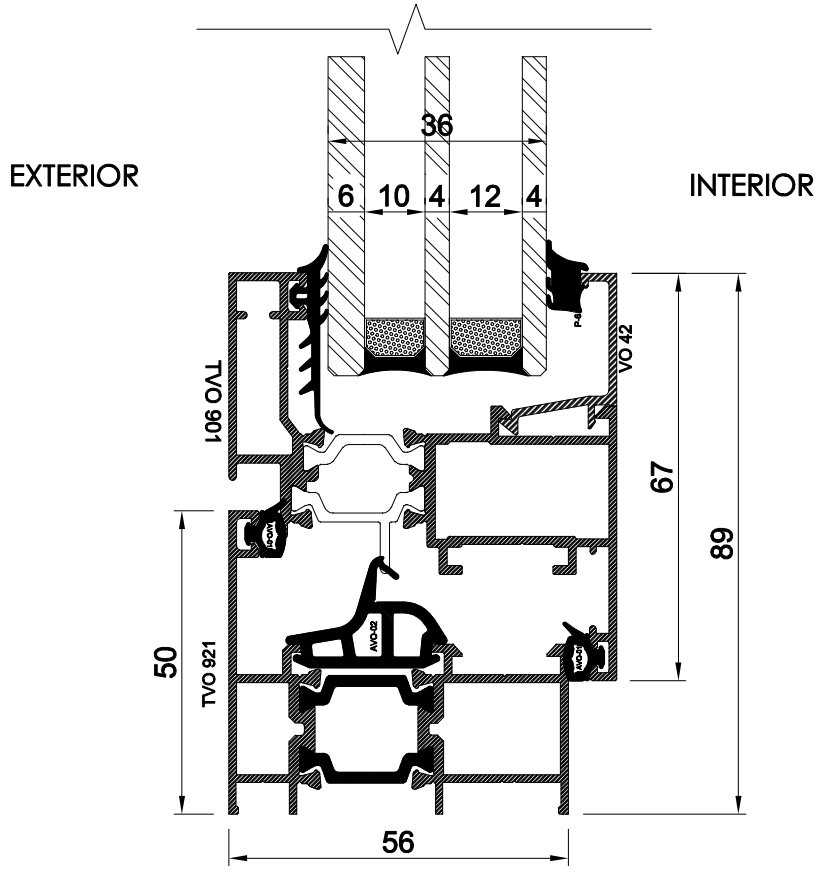

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Frame TVO-921
Sash TVO-901

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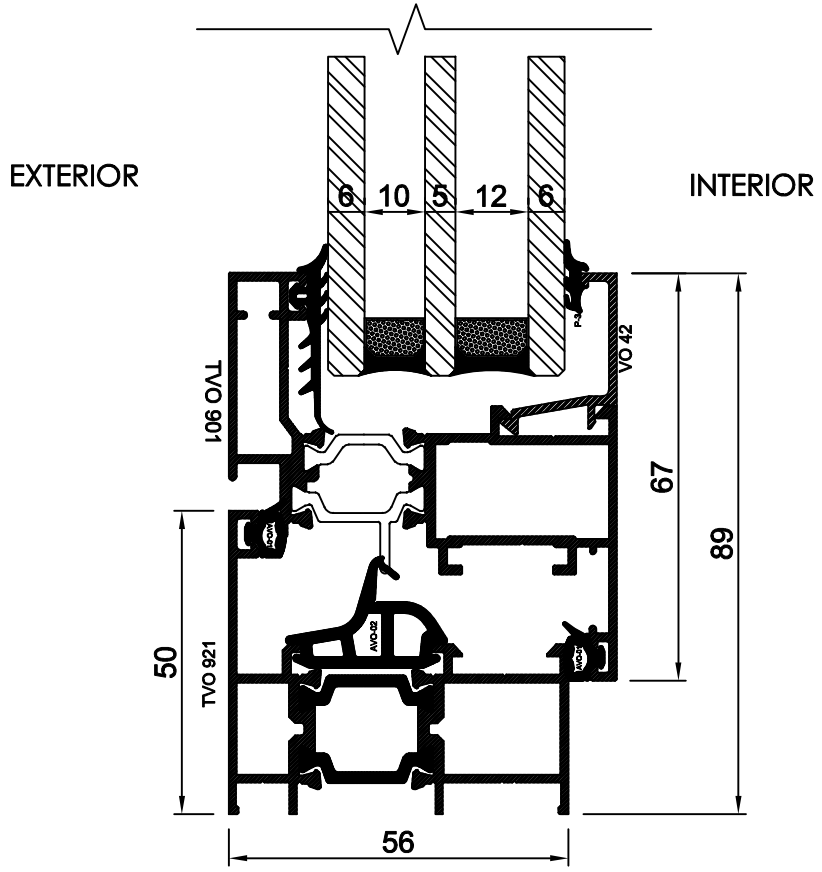

Section A-A, B-B
Frame TVO-921
Sash TVO-911

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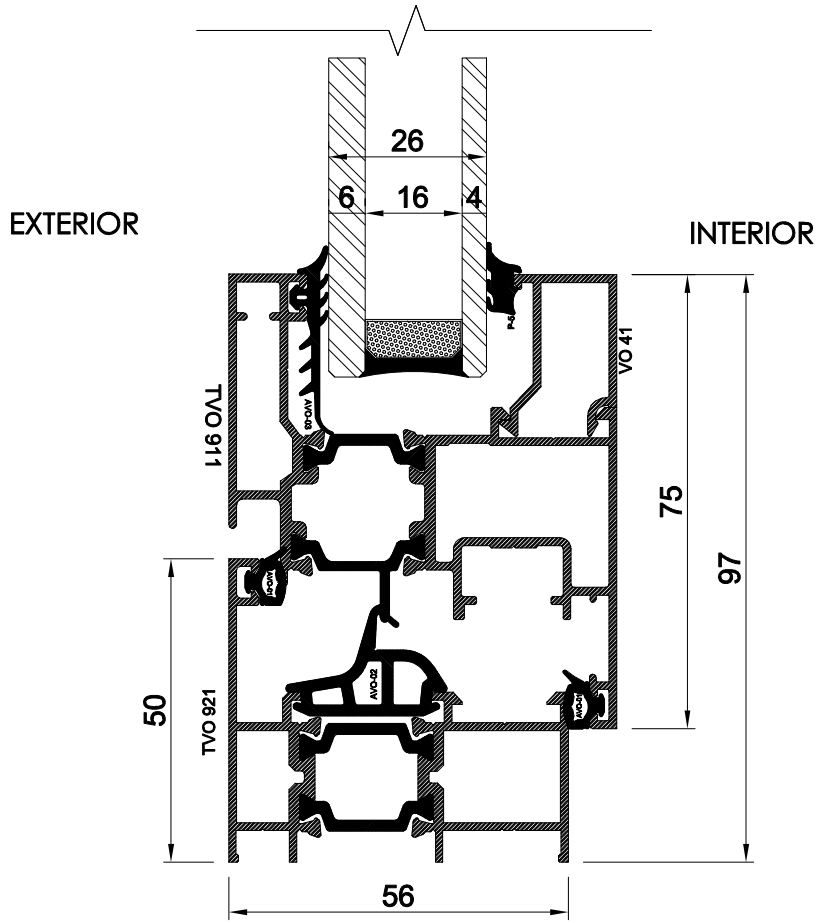

Section A-A, B-B
Frame TVO-921
Sash TVO-911

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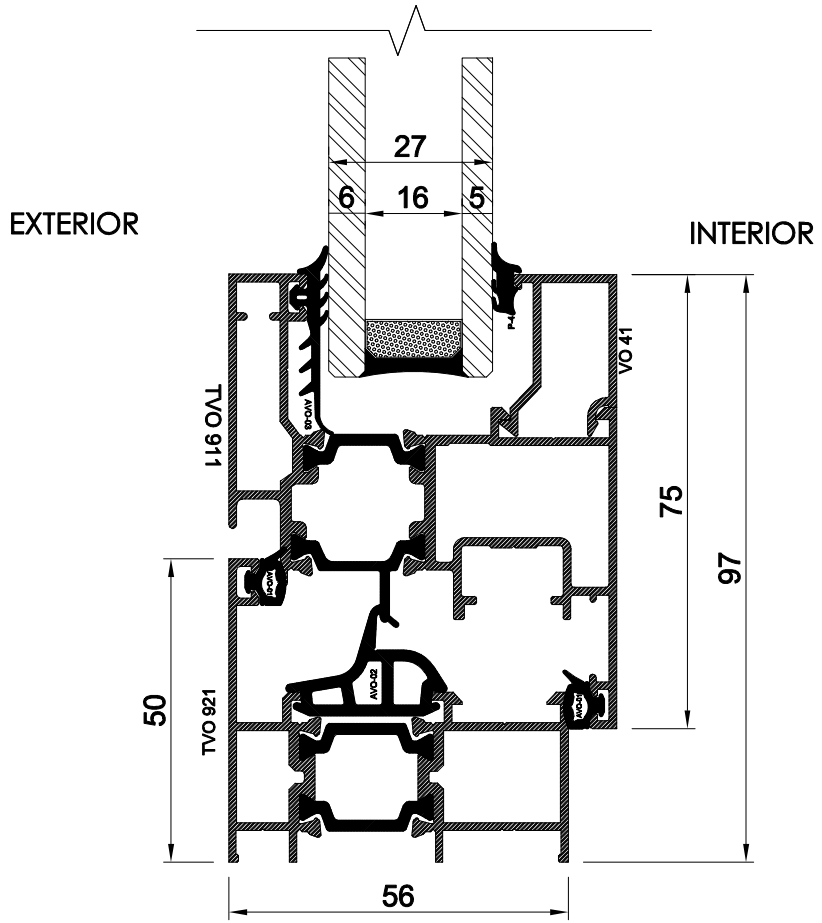

Section A-A, B-B
Frame TVO-921
Sash TVO-911

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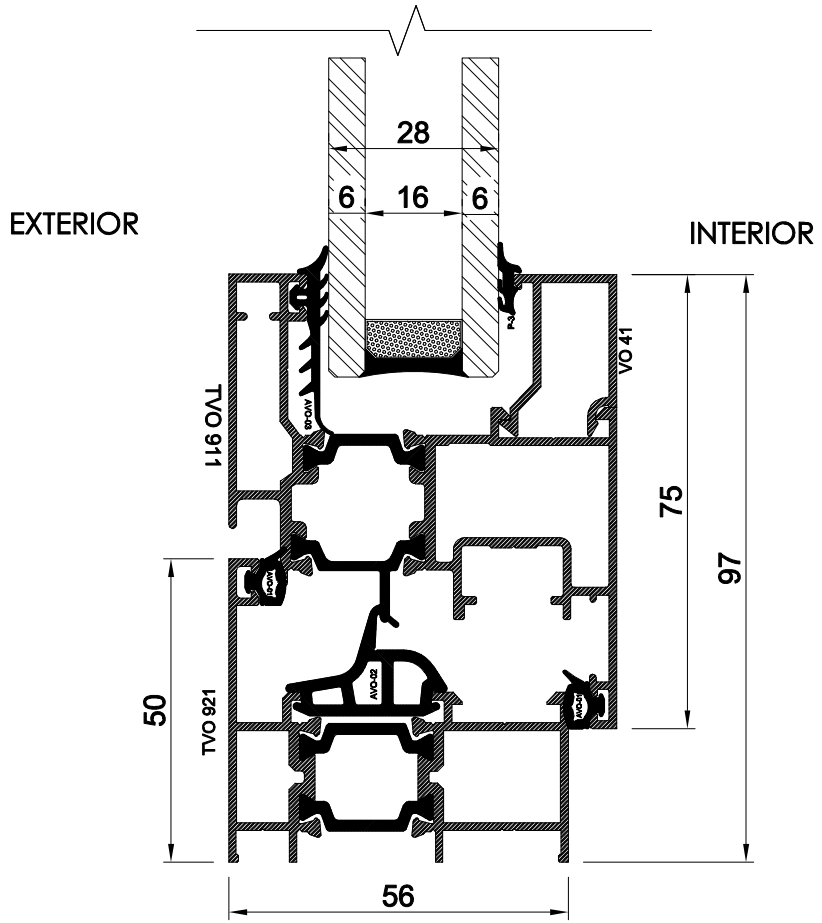

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Frame TVO-921
Sash TVO-911

Report #:	P2848-116-45
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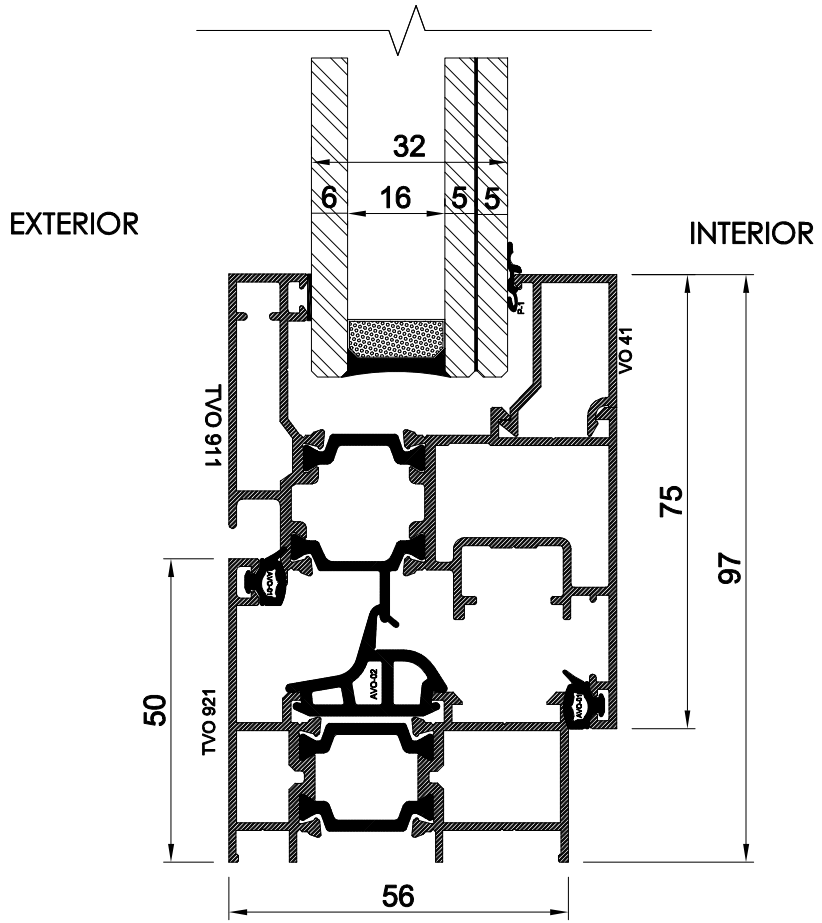

Section A-A, B-B
Frame TVO-921
Sash TVO-911

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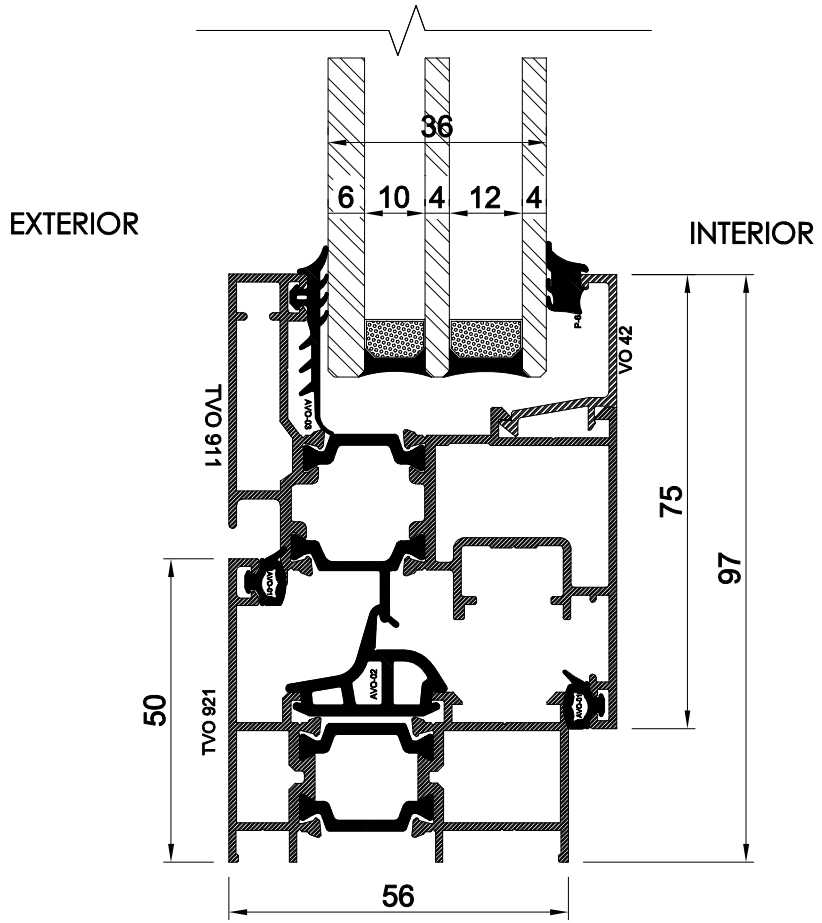

Section A-A, B-B
Frame TVO-921
Sash TVO-911

Specimen

Report #:	P2848-116-45
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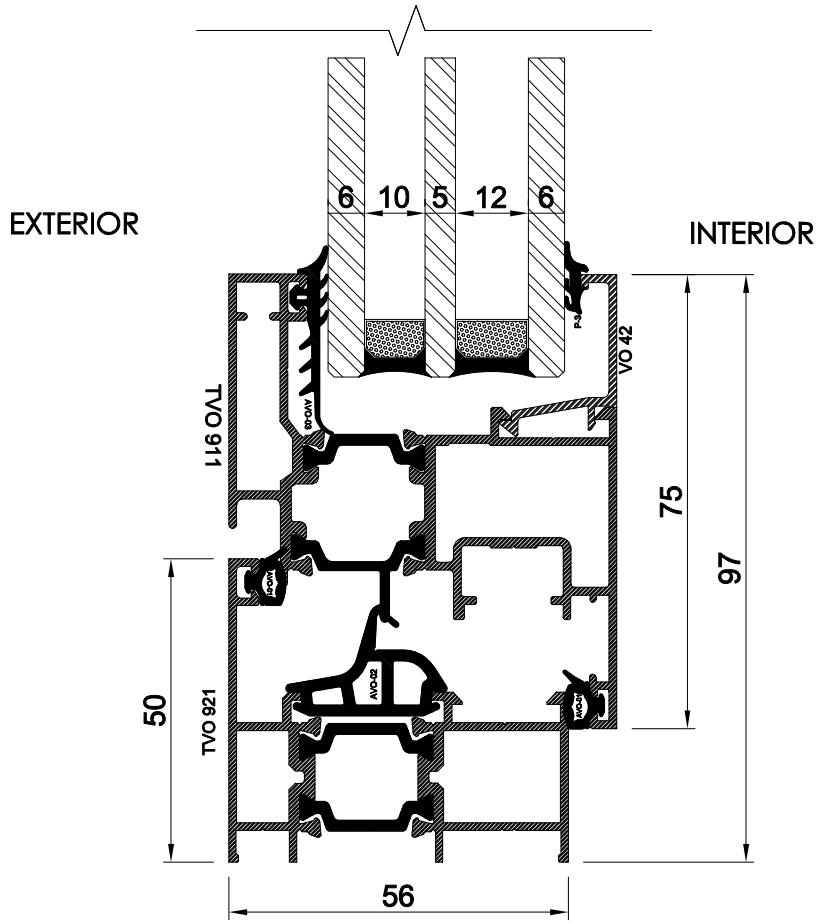

Section A-A, B-B
Frame TVO-922
Sash TVO-901

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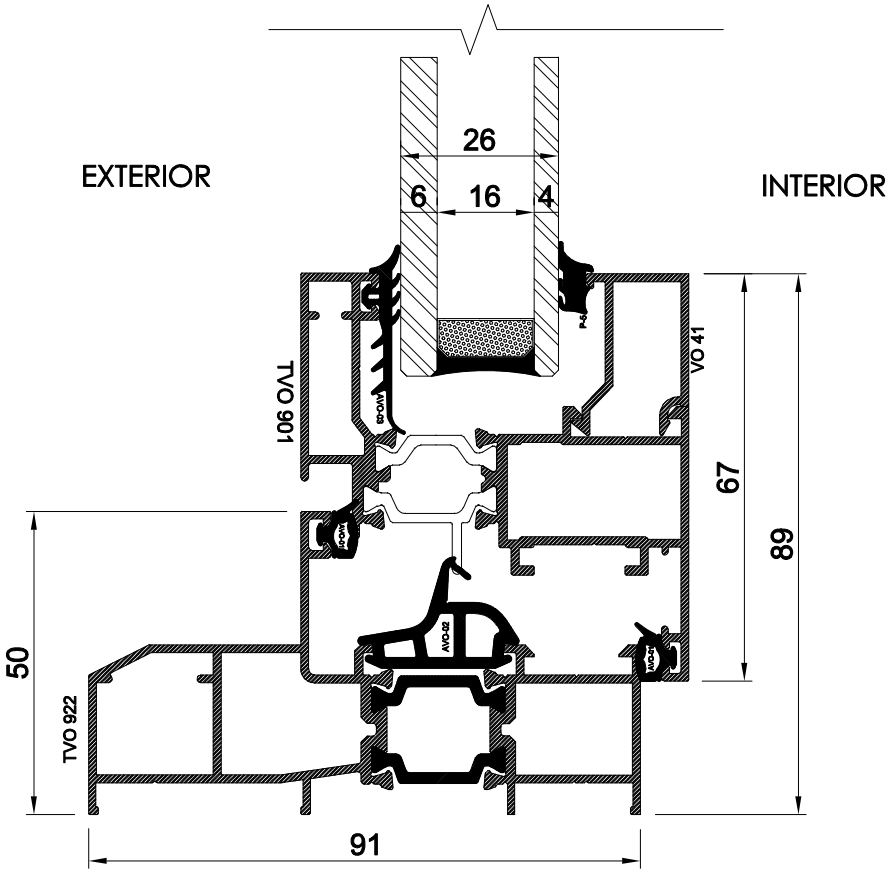
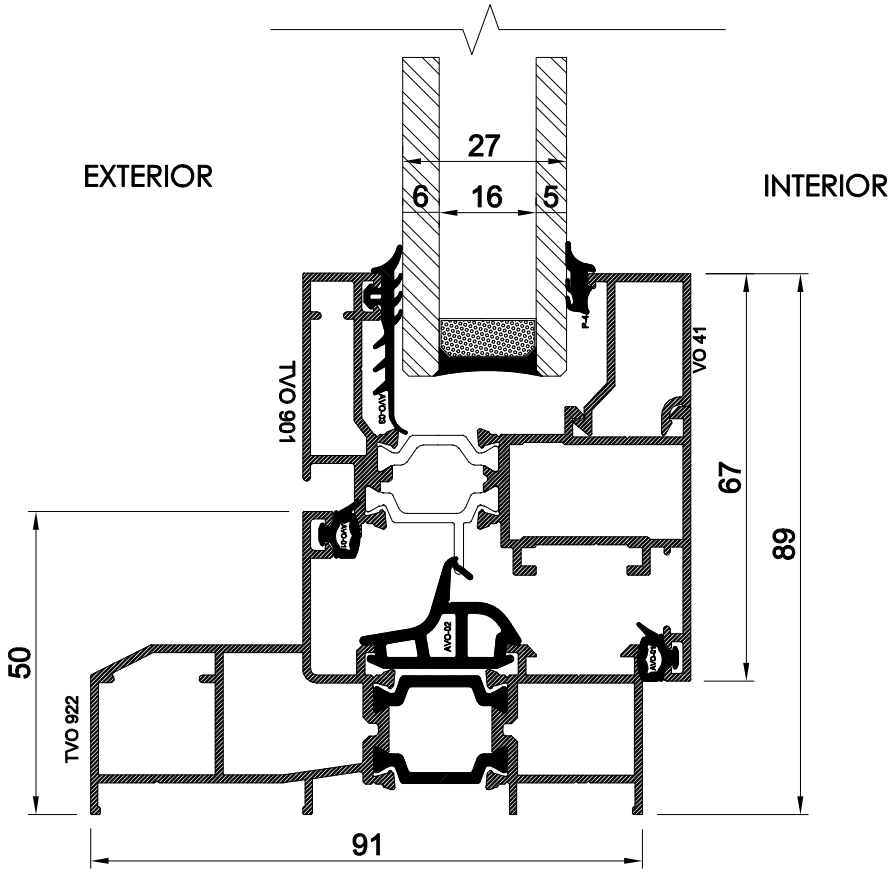
Date: 12/01/2022
Verified by:



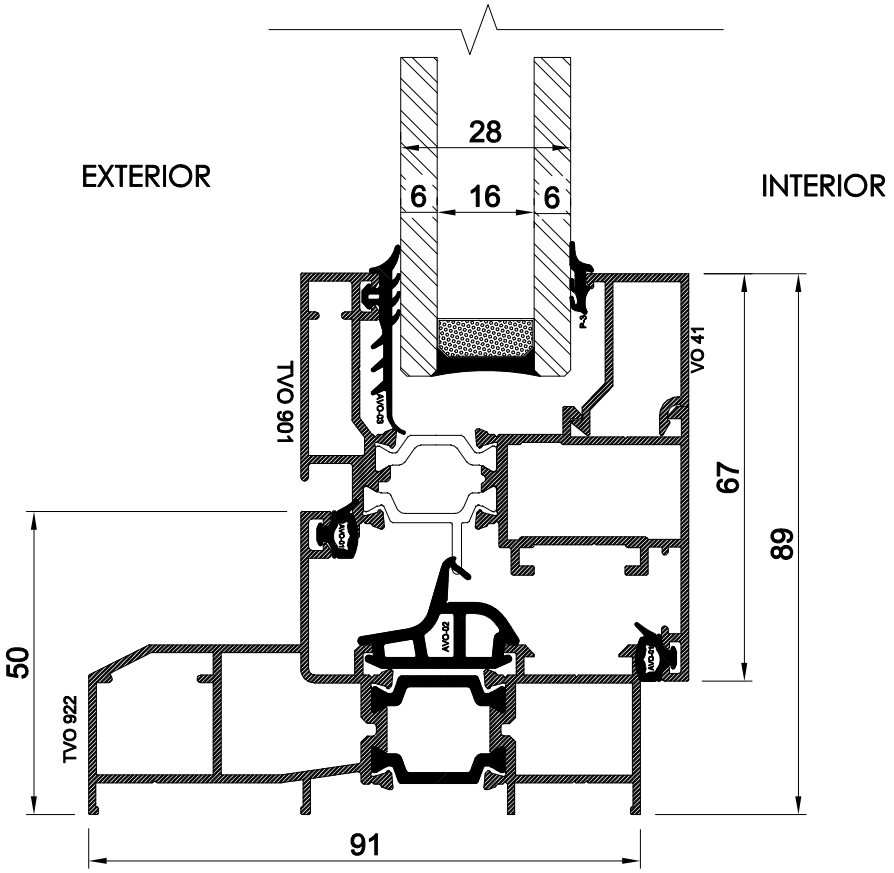
Section A-A, B-B
Frame TVO-922
Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
Verified by:



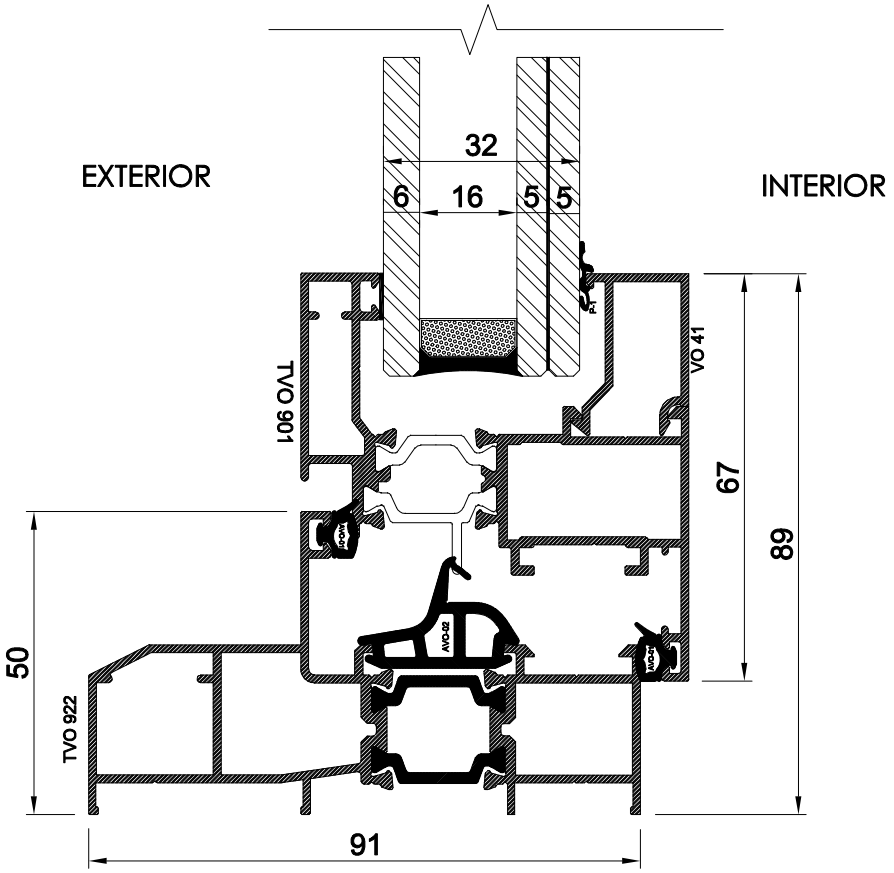
Section A-A, B-B
Frame TVO-922
Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
Verified by:



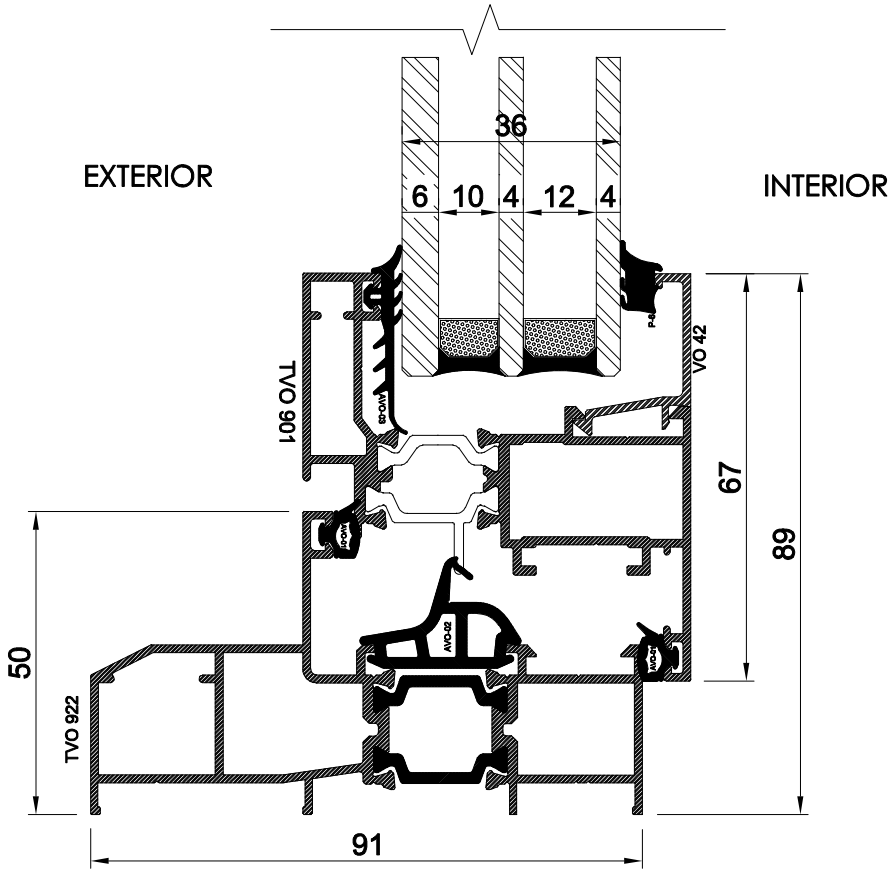
Section A-A, B-B
Frame TVO-922
Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
Verified by:



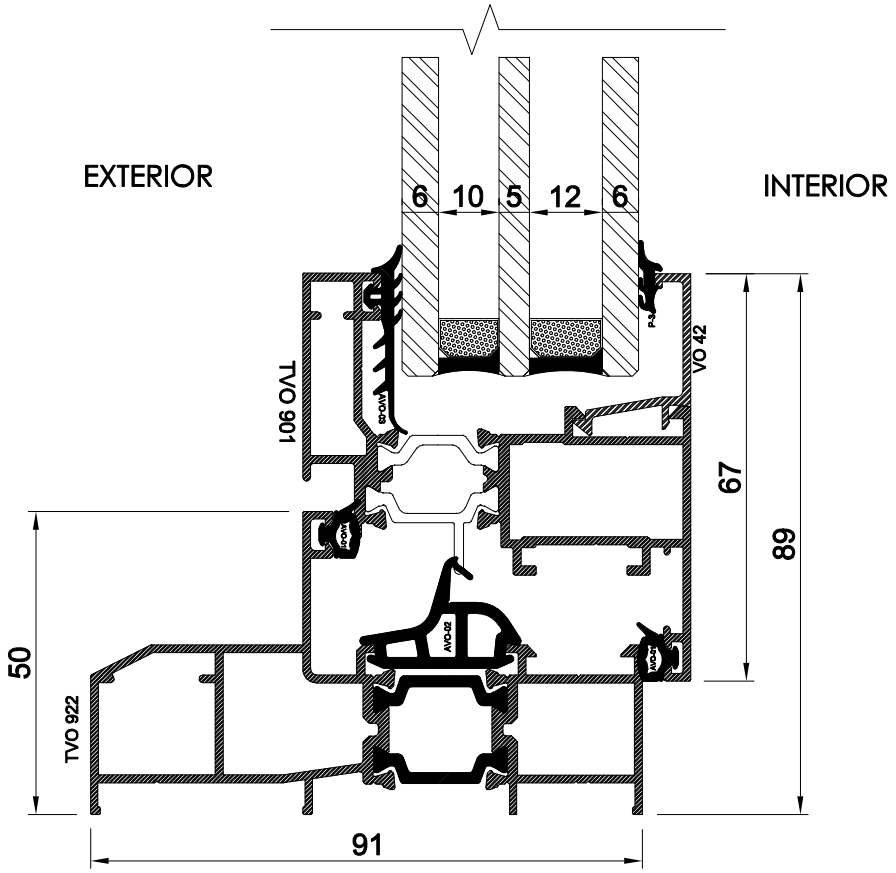
Section A-A, B-B
Frame TVO-922
Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
Verified by:



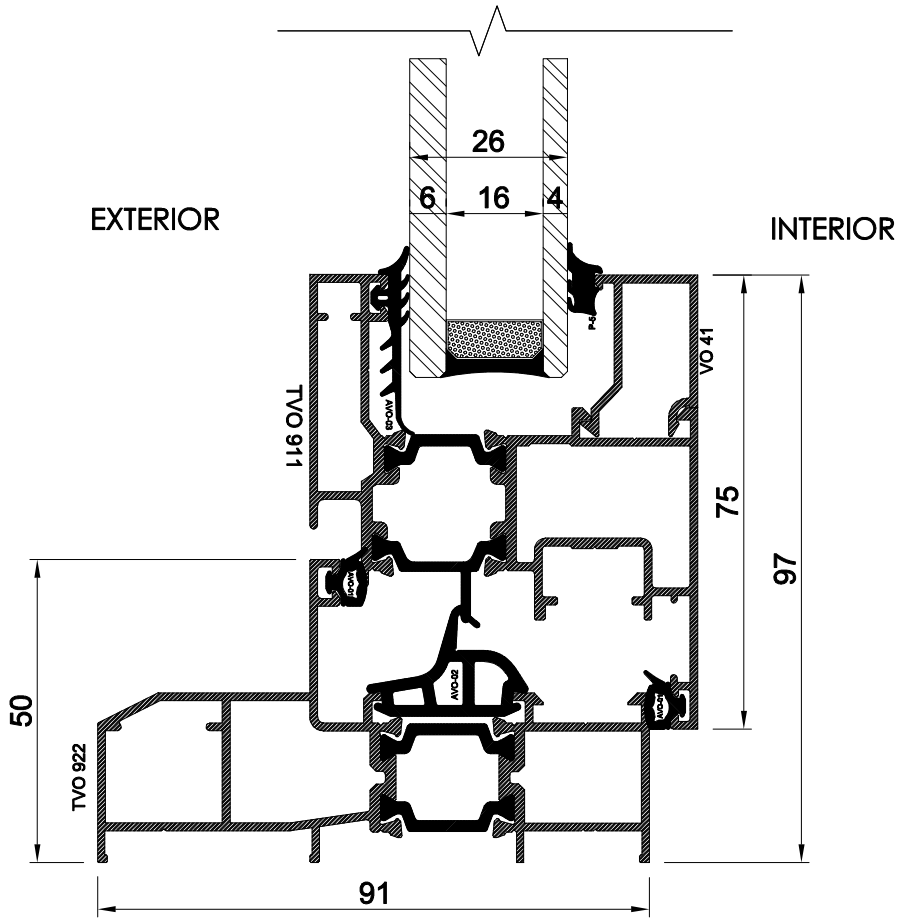
Section A-A, B-B
Frame TVO-922
Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
Verified by:



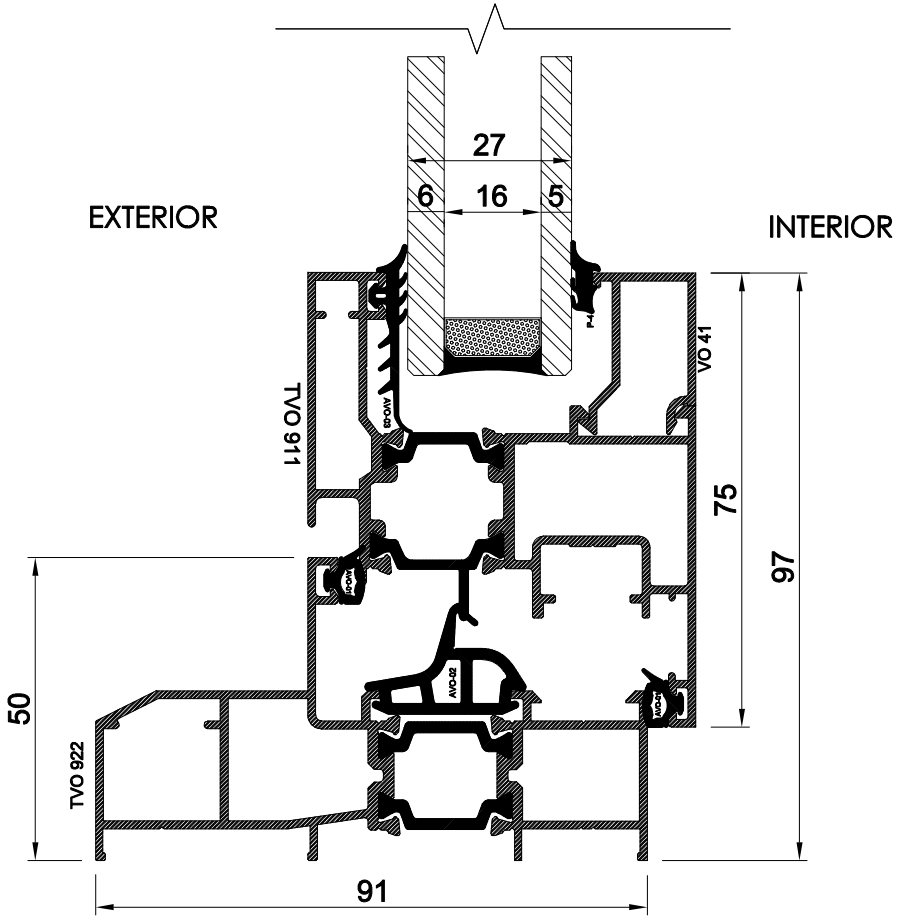
Section A-A, B-B
Frame TVO-922
Sash TVO-911

Report #:	P2848-116-45
Date:	12/01/2022
Verified by:	



Section A-A, B-B
Frame TVO-922
Sash TVO-911

Report #: P2848-116-45
Date: 12/01/2022
Verified by:



Section A-A, B-B
Frame TVO-922
Sash TVO-911

Report #: P2848-116-45
Date: 12/01/2022
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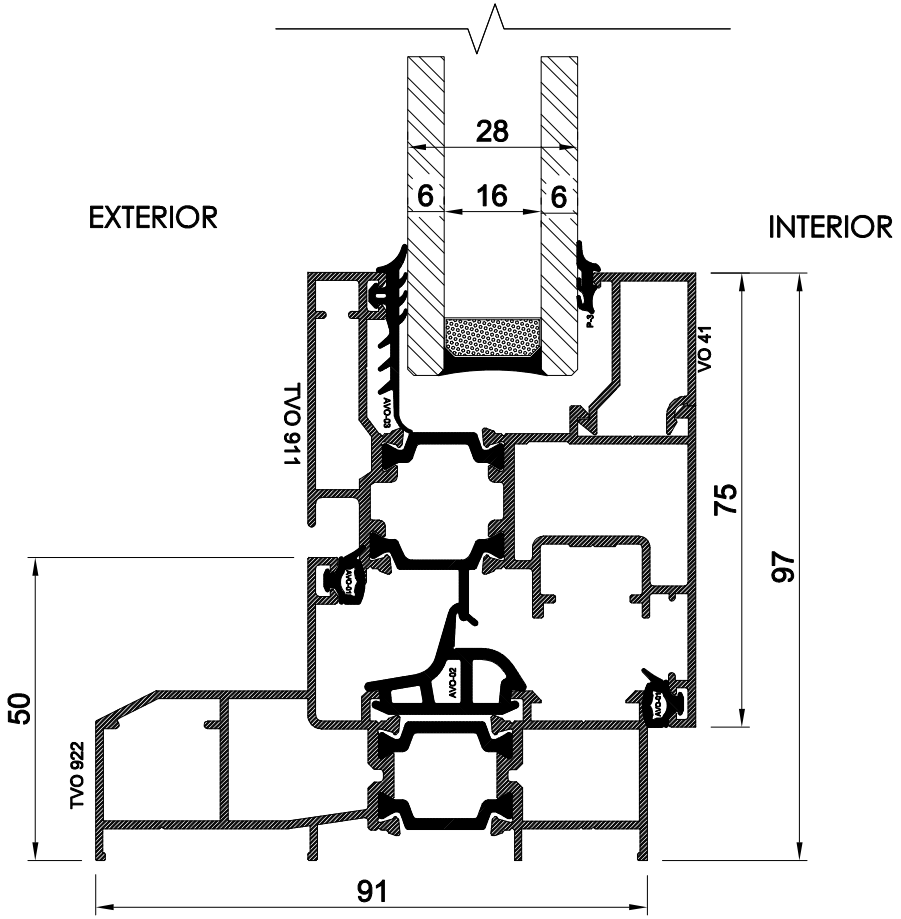

Section A-A, B-B
Frame TVO-922
Sash TVO-911

Report #: P2848-116-45
Date: 12/01/2022
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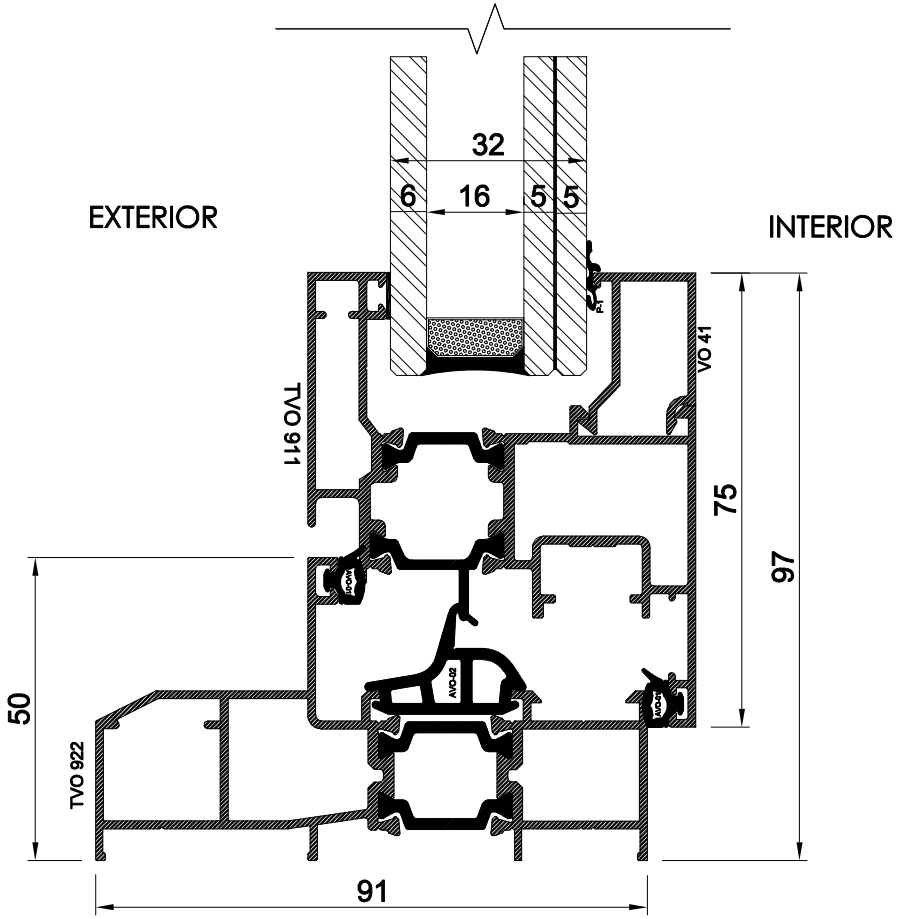
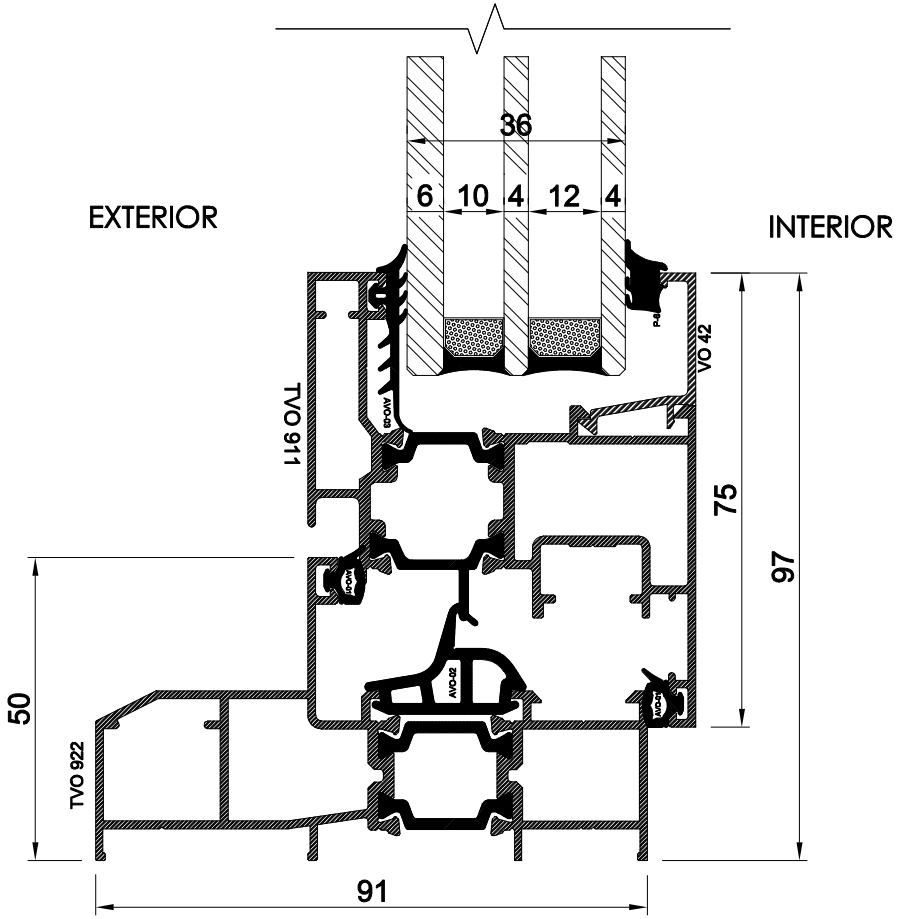


Section A-A, B-B
Frame TVO-922
Sash TVO-911

Report #:	P2848-116-45
Date:	12/01/2022
Verified by:	



Section A-A, B-B
Frame TVO-922
Sash TVO-911

Report #: P2848-116-45
Date: 12/01/2022
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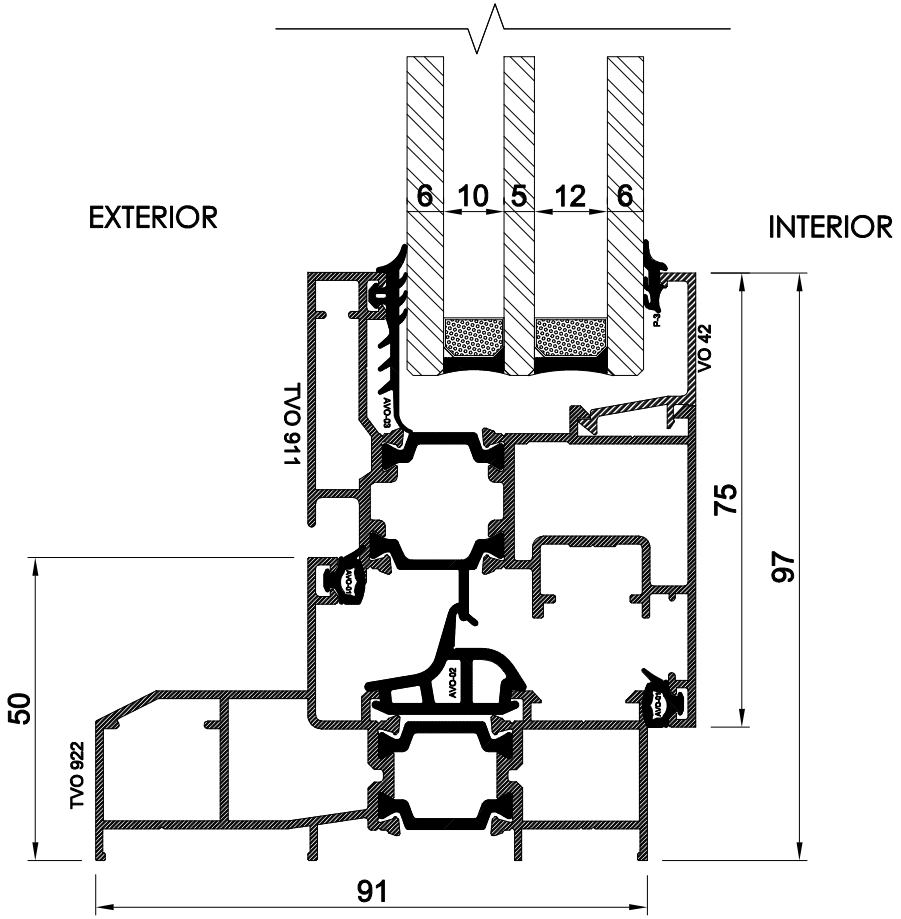

Section A-A, B-B
Frame TVO-927
Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
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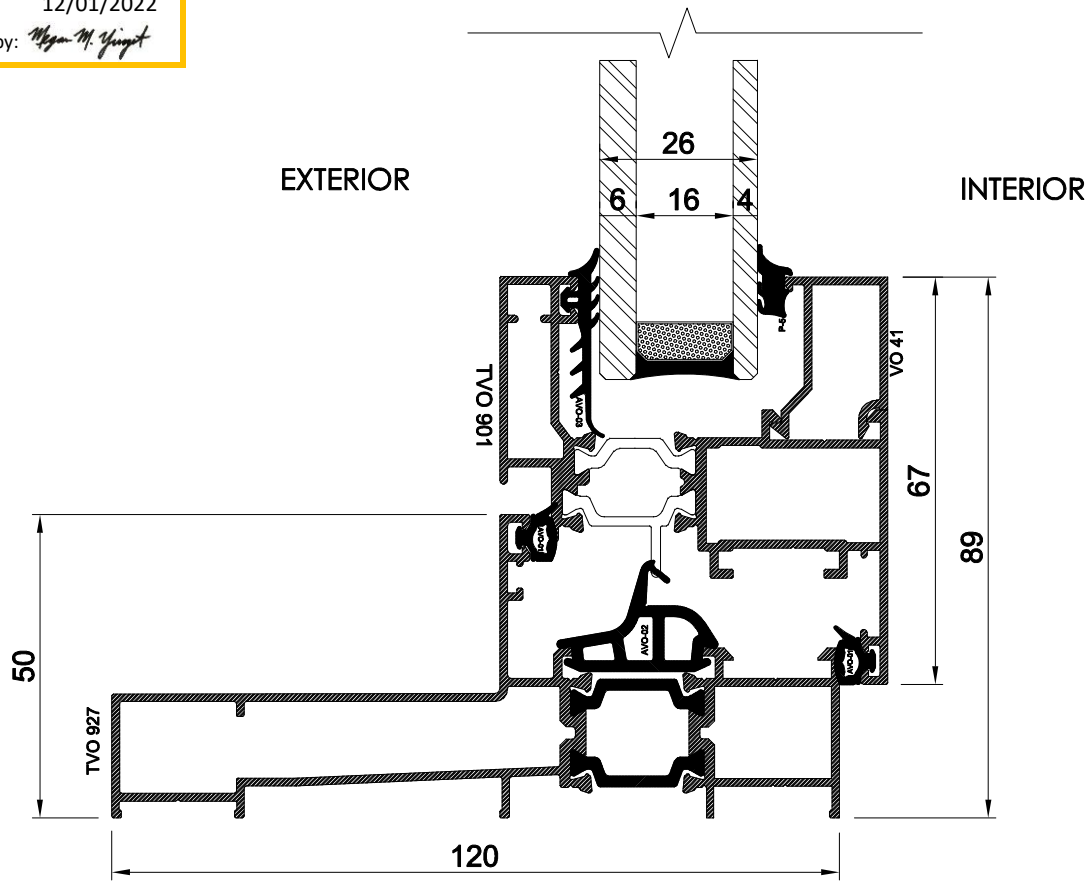
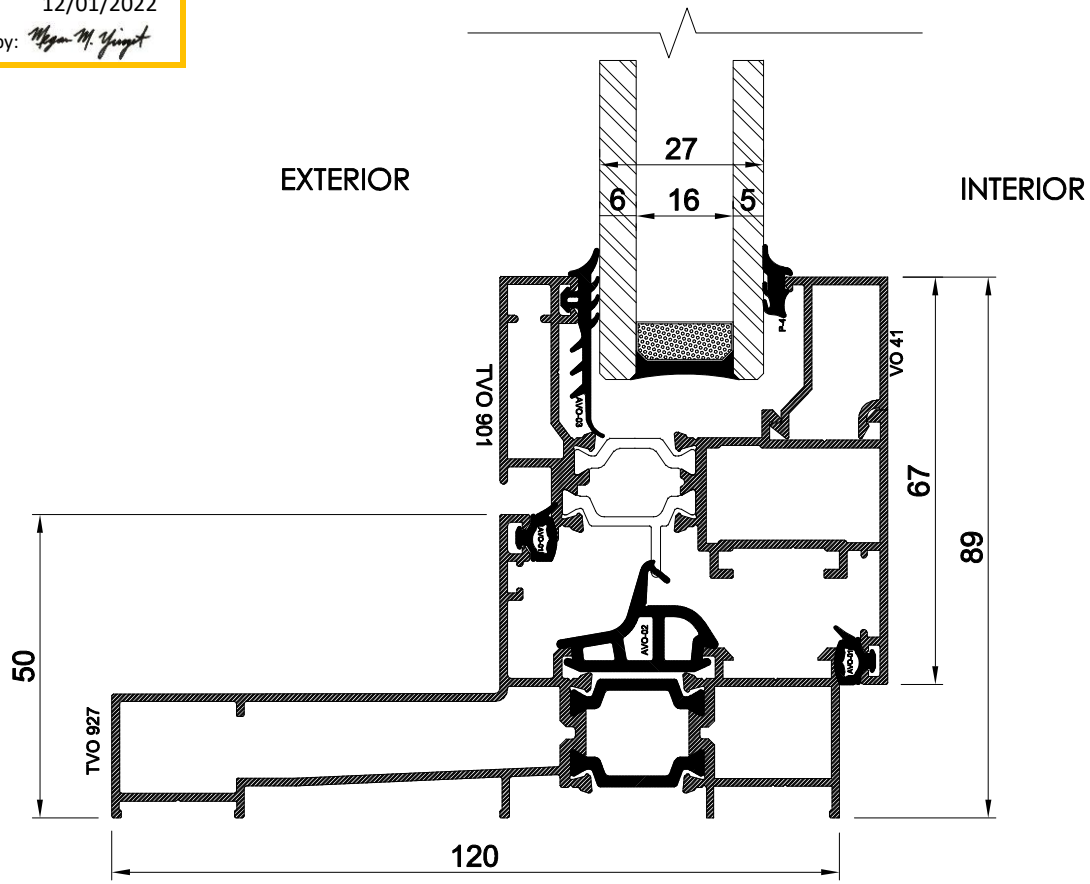


Section A-A, B-B
Frame TVO-927
Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
Verified by:



Section A-A, B-B
Frame TVO-927
Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
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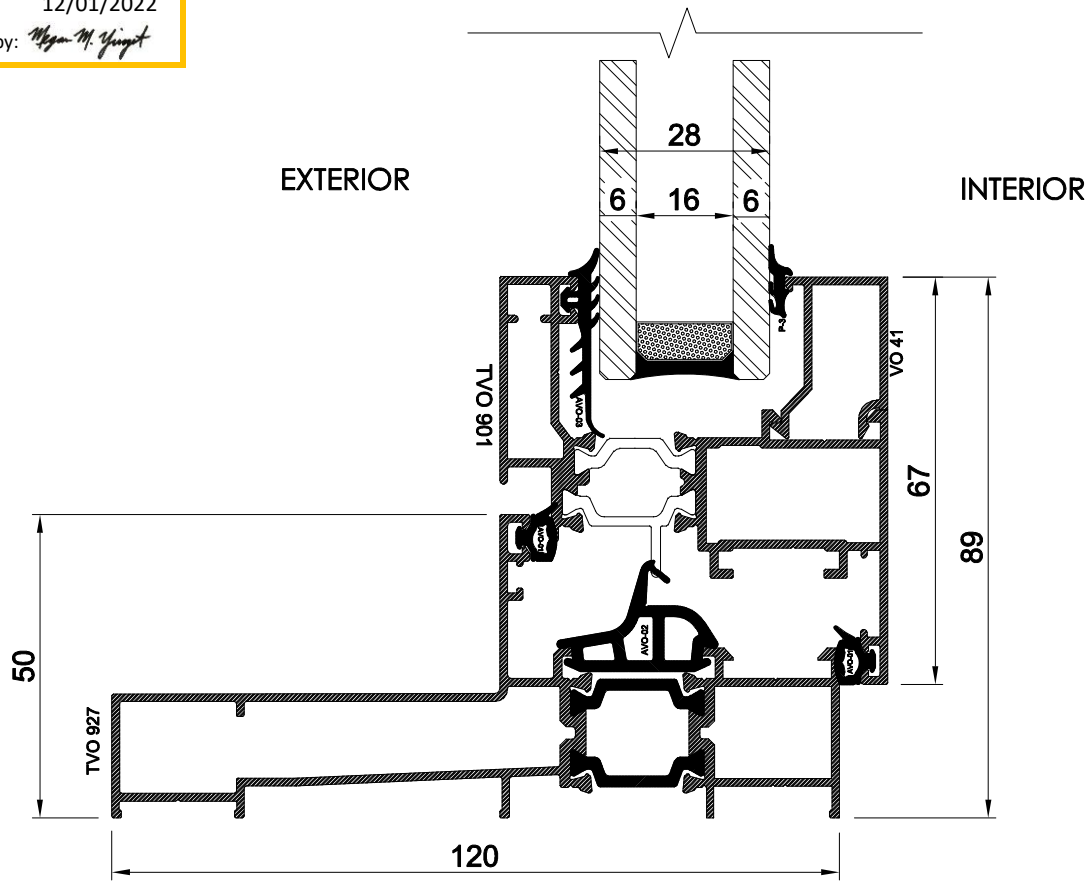

Section A-A, B-B
Frame TVO-927
Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
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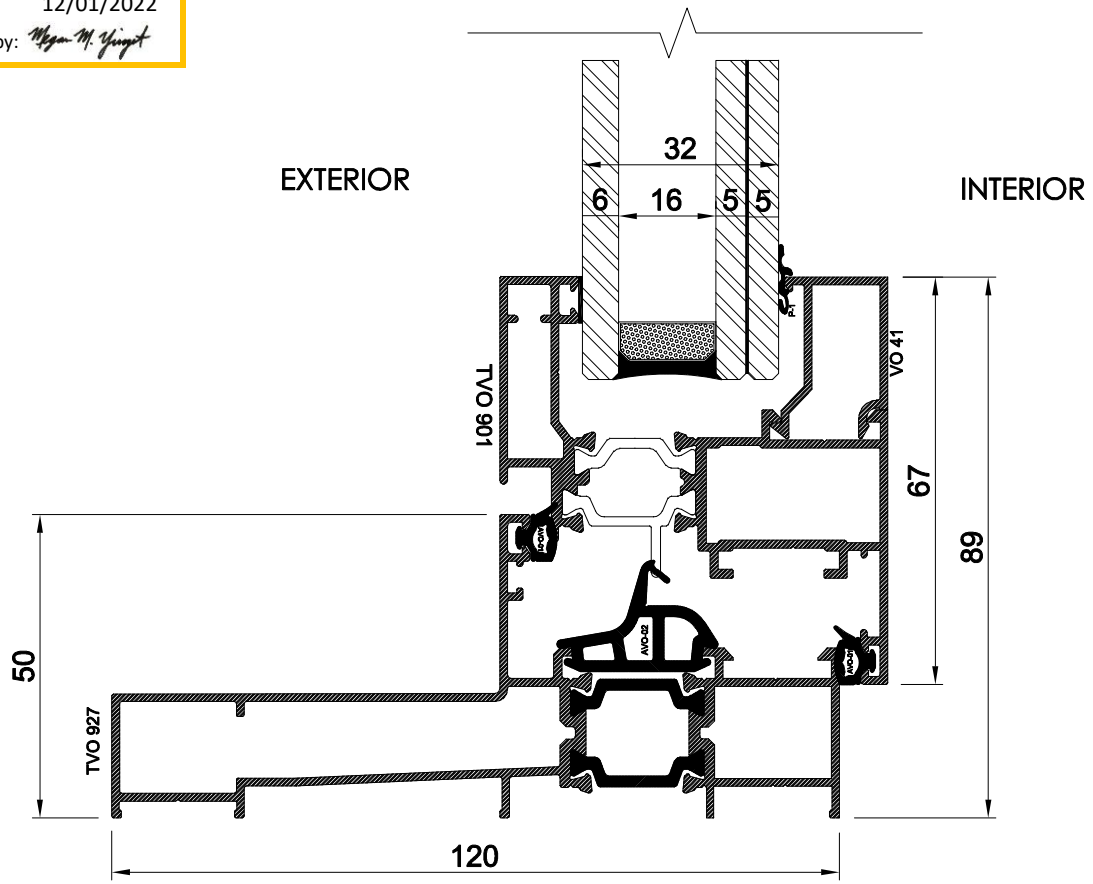

Section A-A, B-B
Frame TVO-927
Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
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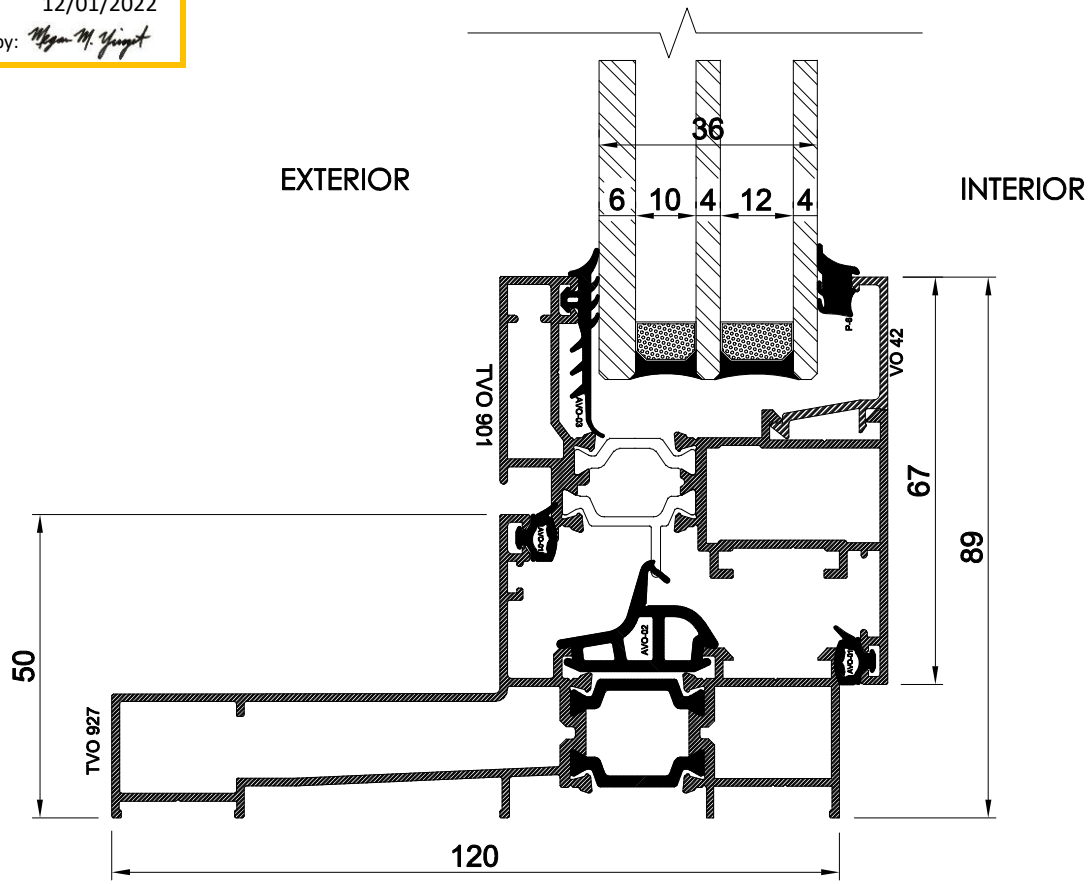

Section A-A, B-B
Frame TVO-927
Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
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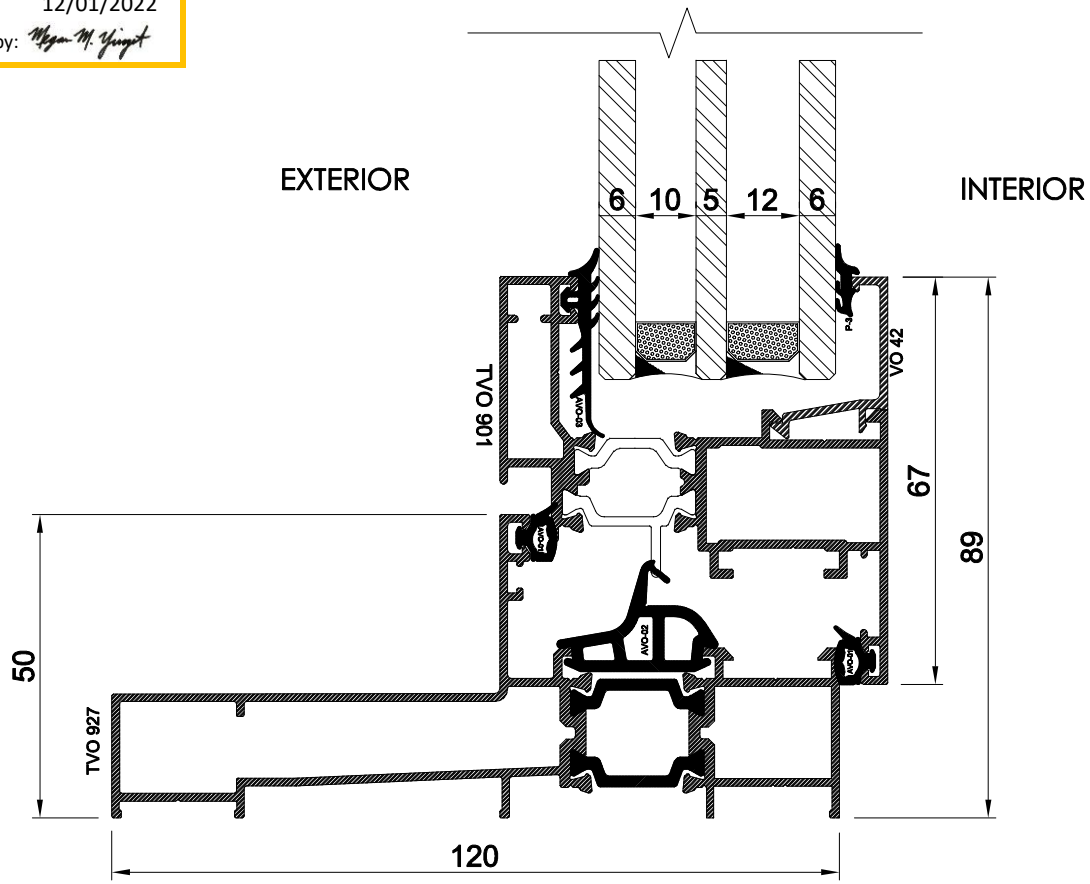

Section A-A, B-B
Frame TVO-927
Sash TVO-911

Report #: P2848-116-45
Date: 12/01/2022
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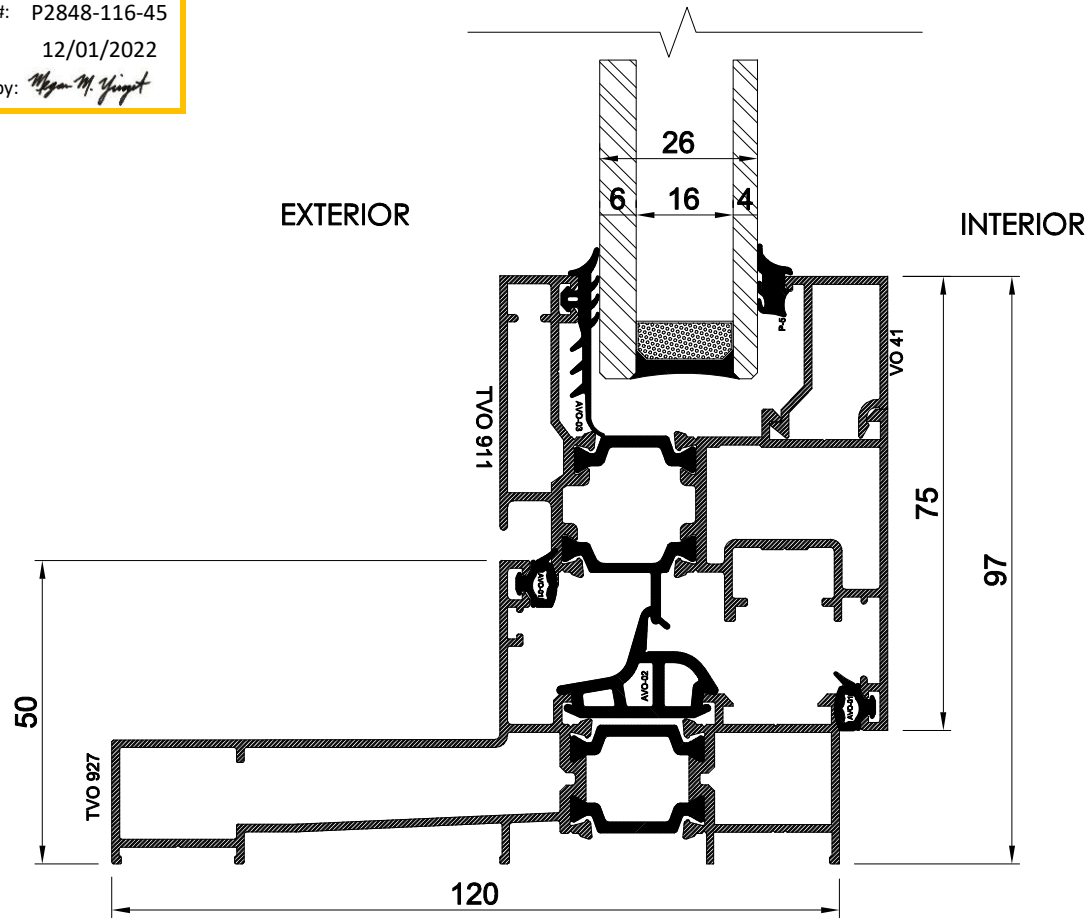

Section A-A, B-B
Frame TVO-927
Sash TVO-911

Report #: P2848-116-45
Date: 12/01/2022
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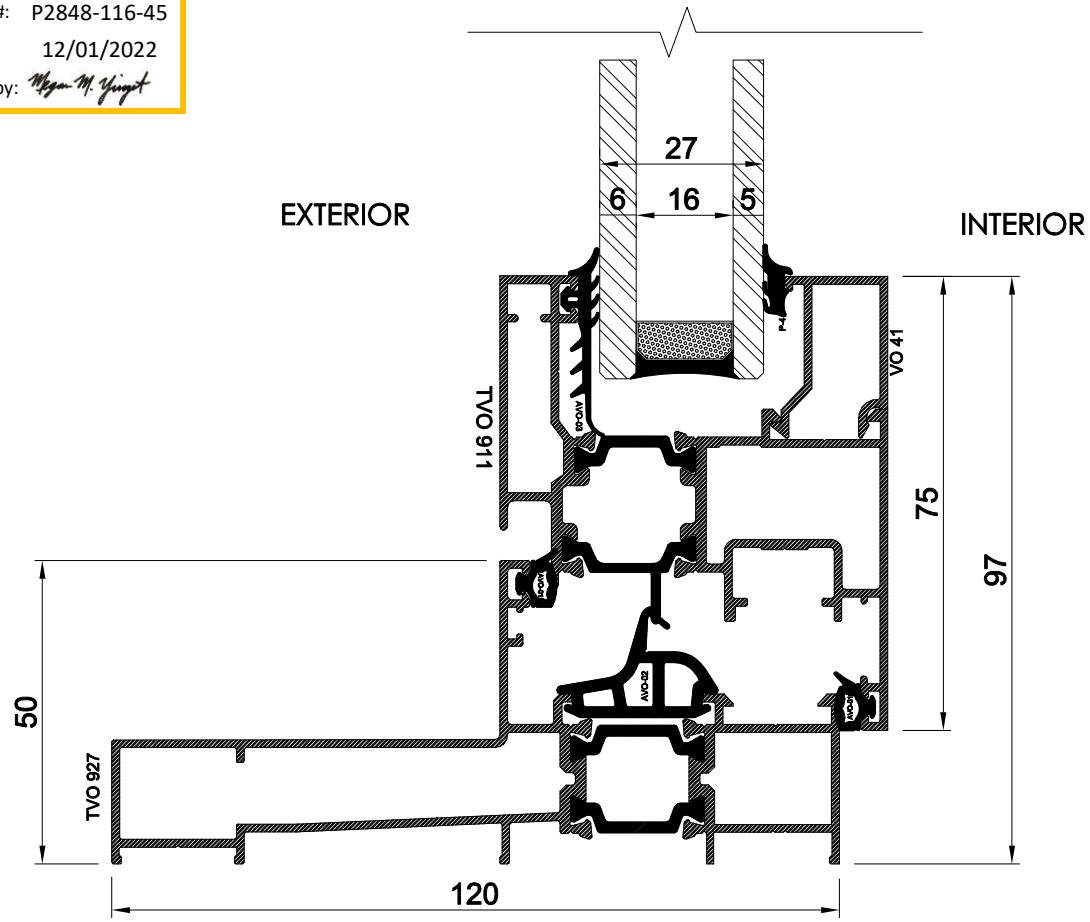

Section A-A, B-B
Frame TVO-927
Sash TVO-911

Report #:	P2848-116-45
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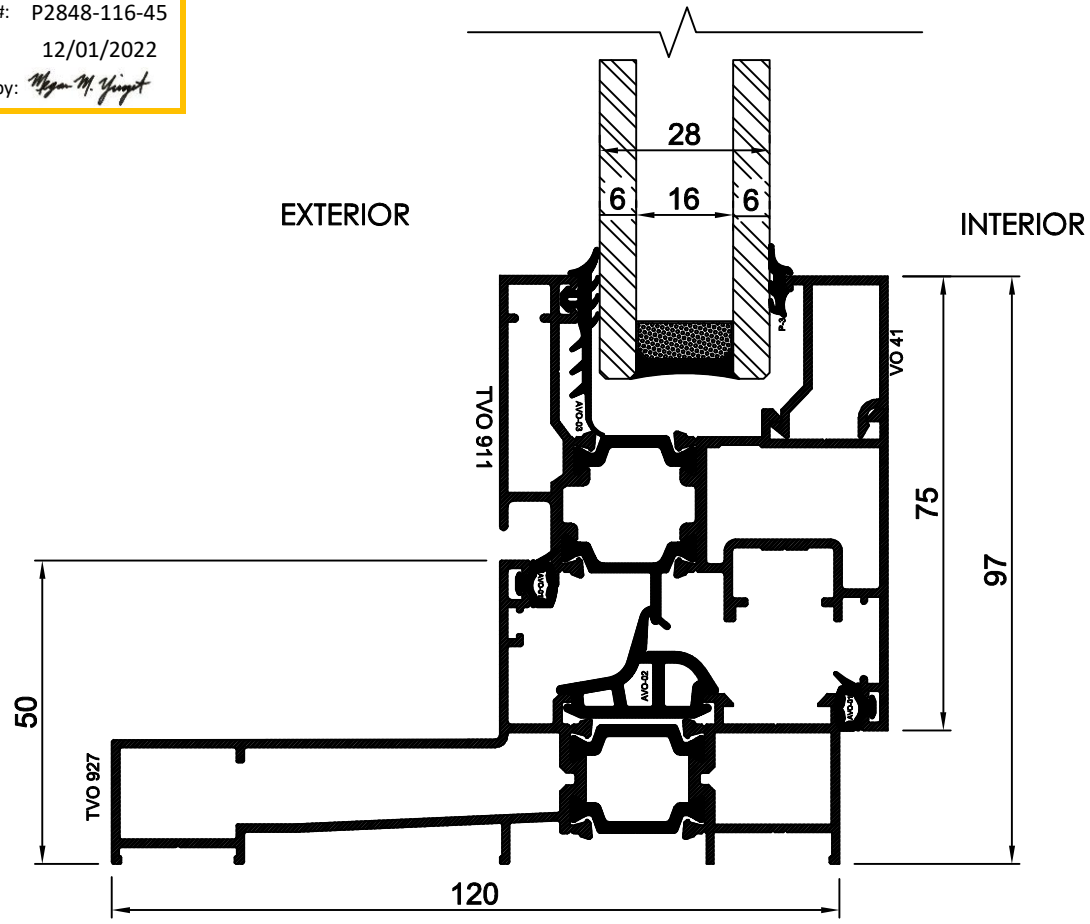

Section A-A, B-B
Frame TVO-927
Sash TVO-911

Report #: P2848-116-45
Date: 12/01/2022
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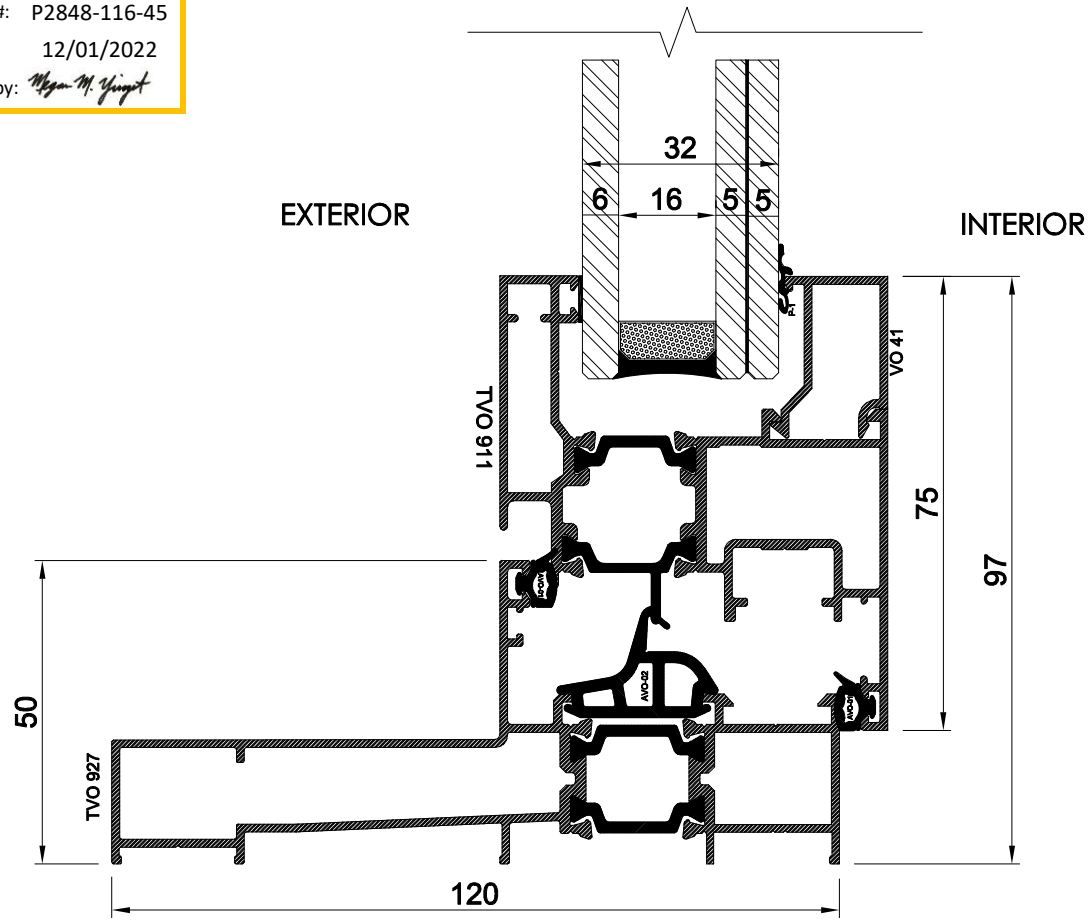

Section A-A, B-B
Frame TVO-927
Sash TVO-911

Report #: P2848-116-45
Date: 12/01/2022
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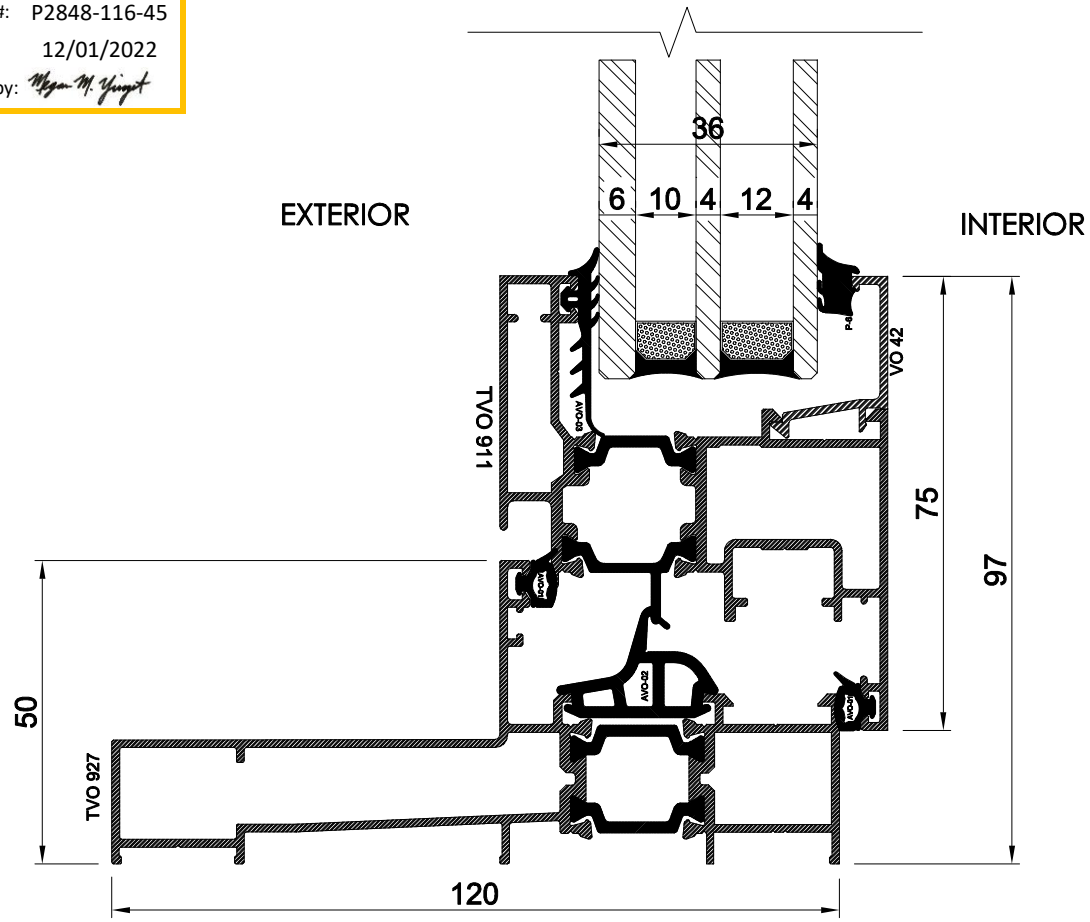

Section A-A, B-B
Frame TVO-927
Sash TVO-911

Report #: P2848-116-45
Date: 12/01/2022
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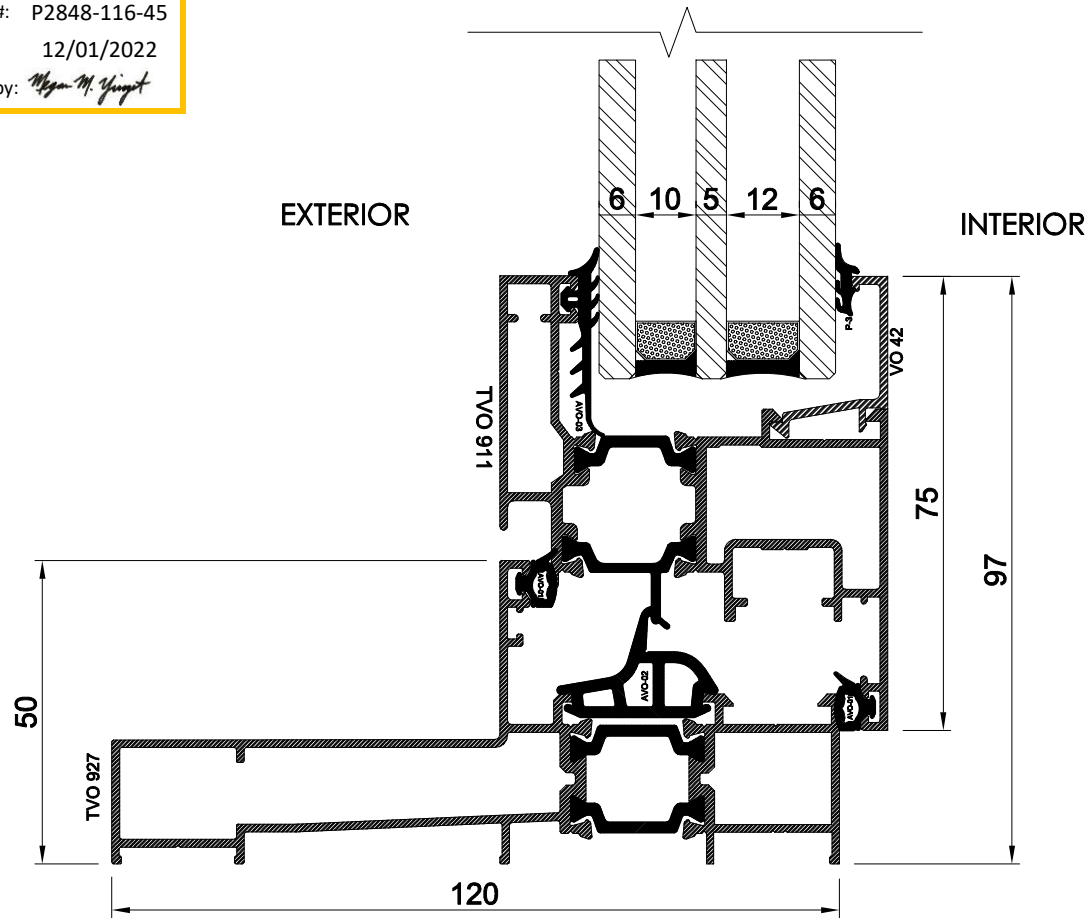
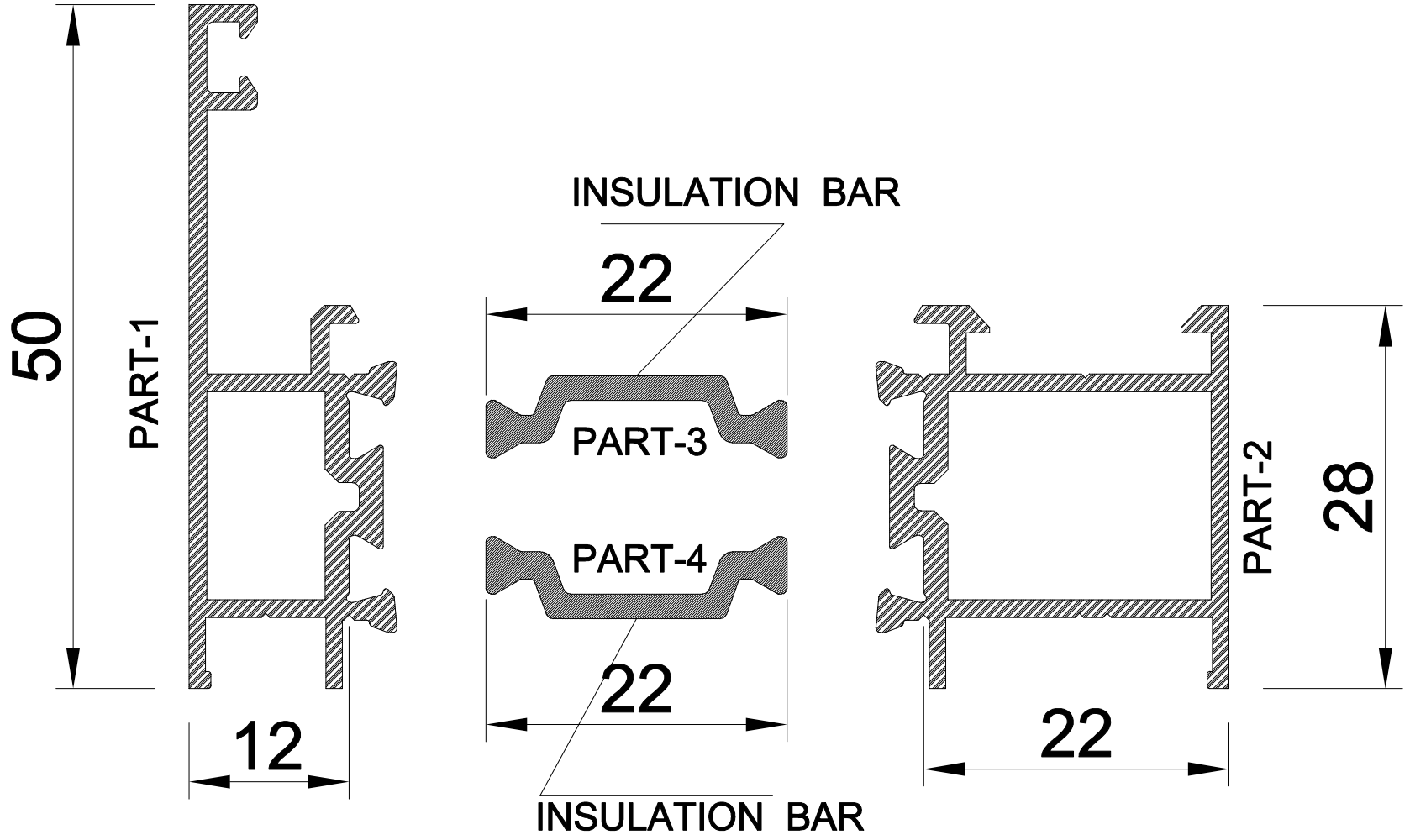


Report #: P2848-116-45
Date: 12/01/2022
Verified by:

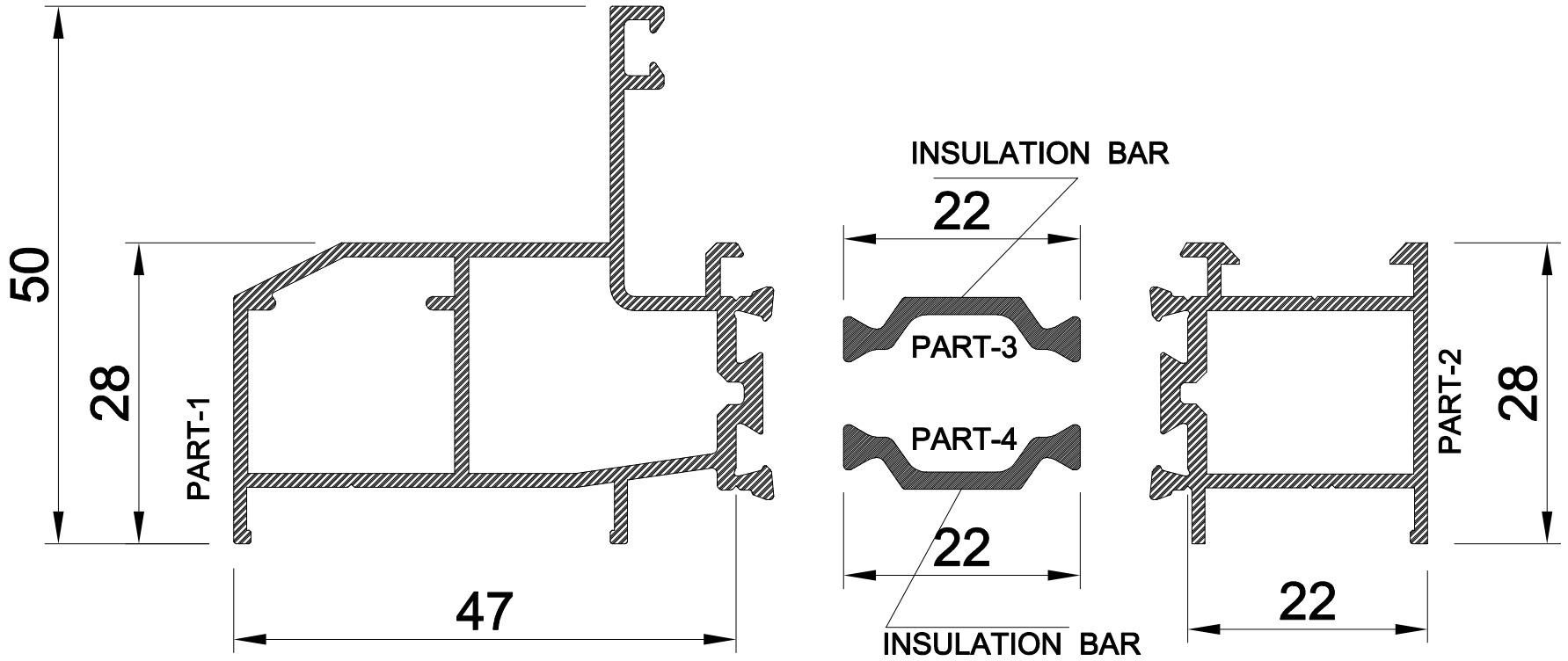
Frame TVO-921



Parts 1&2 = Painted or Anodized Aluminum
Parts 3&4 = Polyamide

Report #: P2848-116-45
Date: 12/01/2022
Verified by:

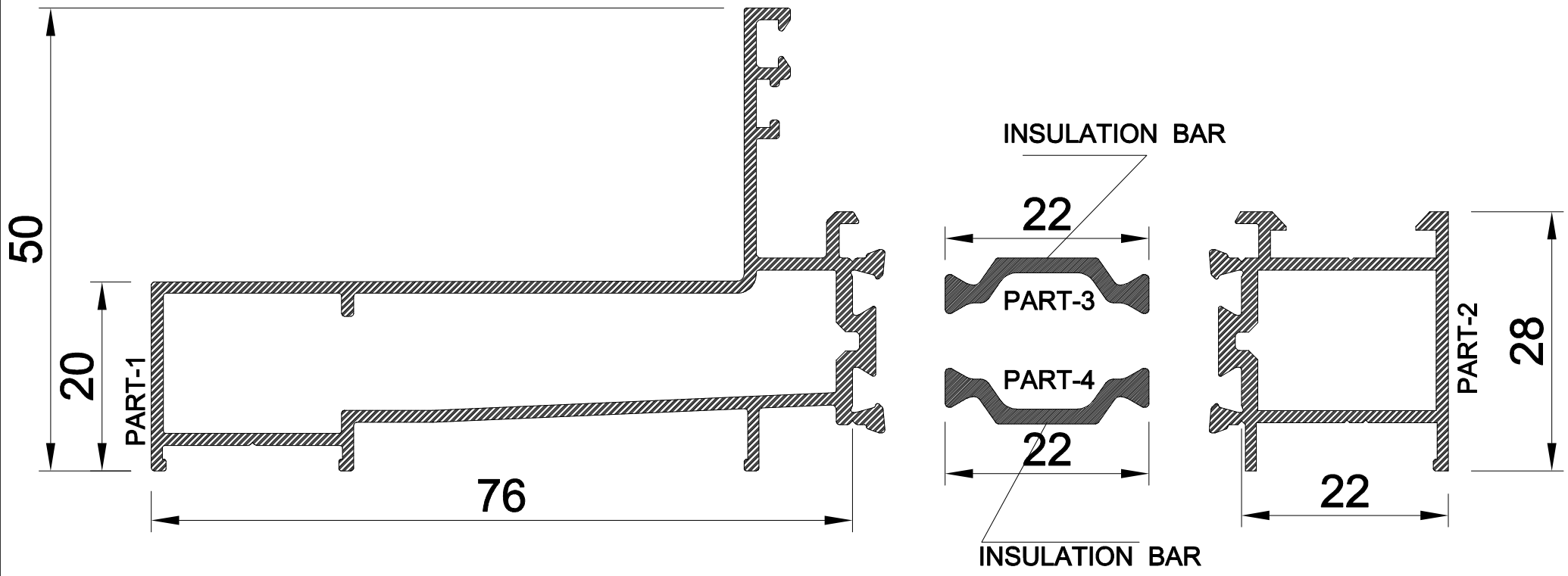
Frame TVO-922



Parts 1&2 = Painted or Anodized Aluminum
Parts 3&4 = Polyamide

Report #: P2848-116-45
Date: 12/01/2022
Verified by:

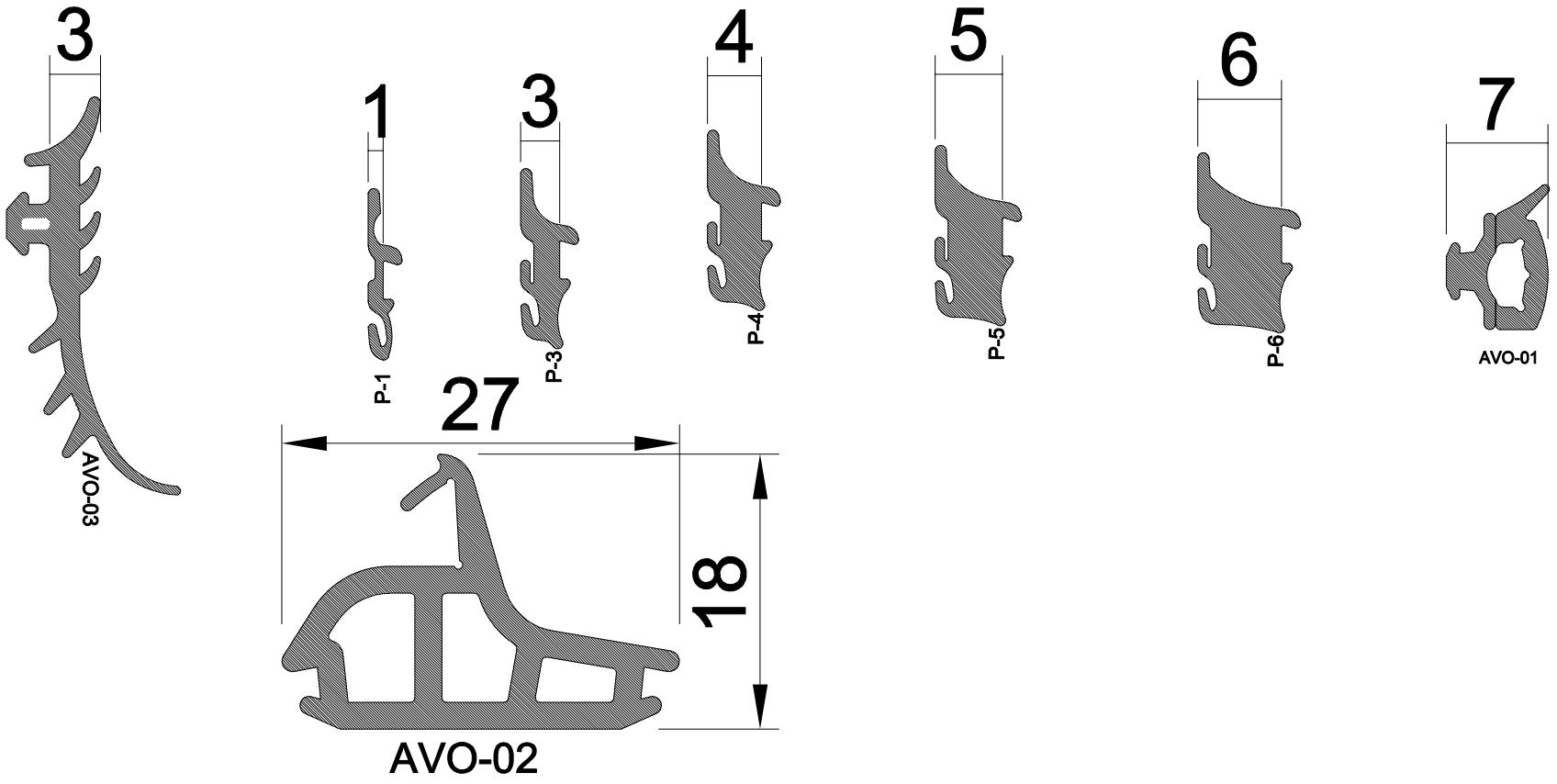
Frame TVO-927



Parts 1&2 = Painted or Anodized Aluminum
Parts 3&4 = Polyamide

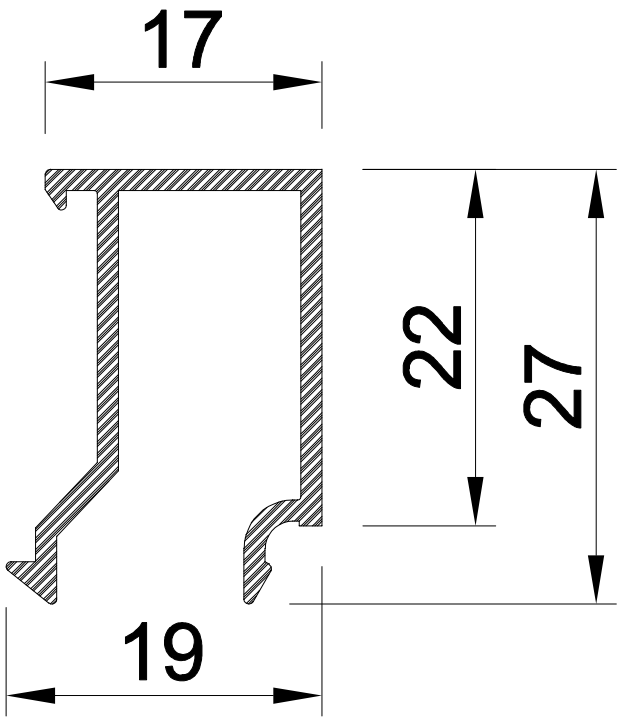
Report #: P2848-116-45
Date: 12/01/2022
Verified by:

GASKETS (EPDM)



Report #: P2848-116-45
Date: 12/01/2022
Verified by:

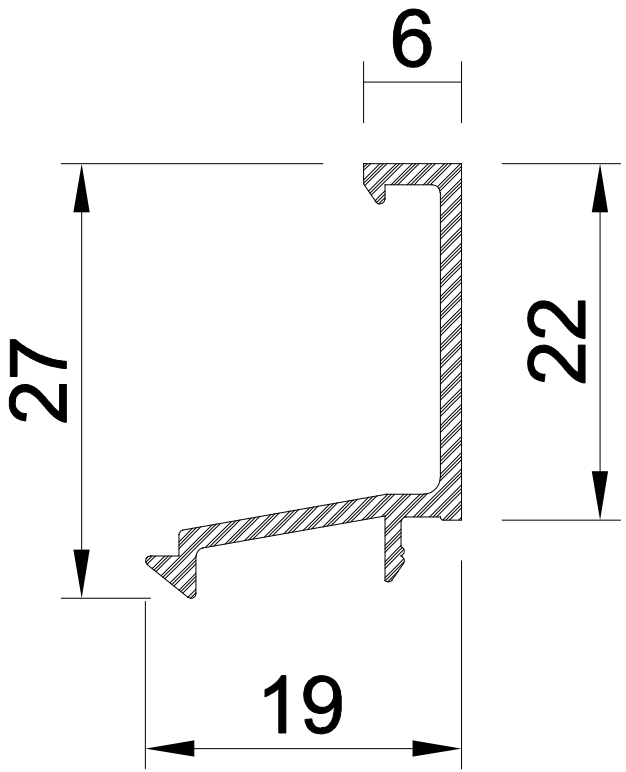
GLAZING BEAD VO-41



Material = Painted or Anodized Aluminum

Report #: P2848-116-45
Date: 12/01/2022
Verified by:

GLAZING BEAD VO-42



Material = Painted or Anodized Aluminum

Sash TVO-901

Report #: P2848-116-45
Date: 12/01/2022
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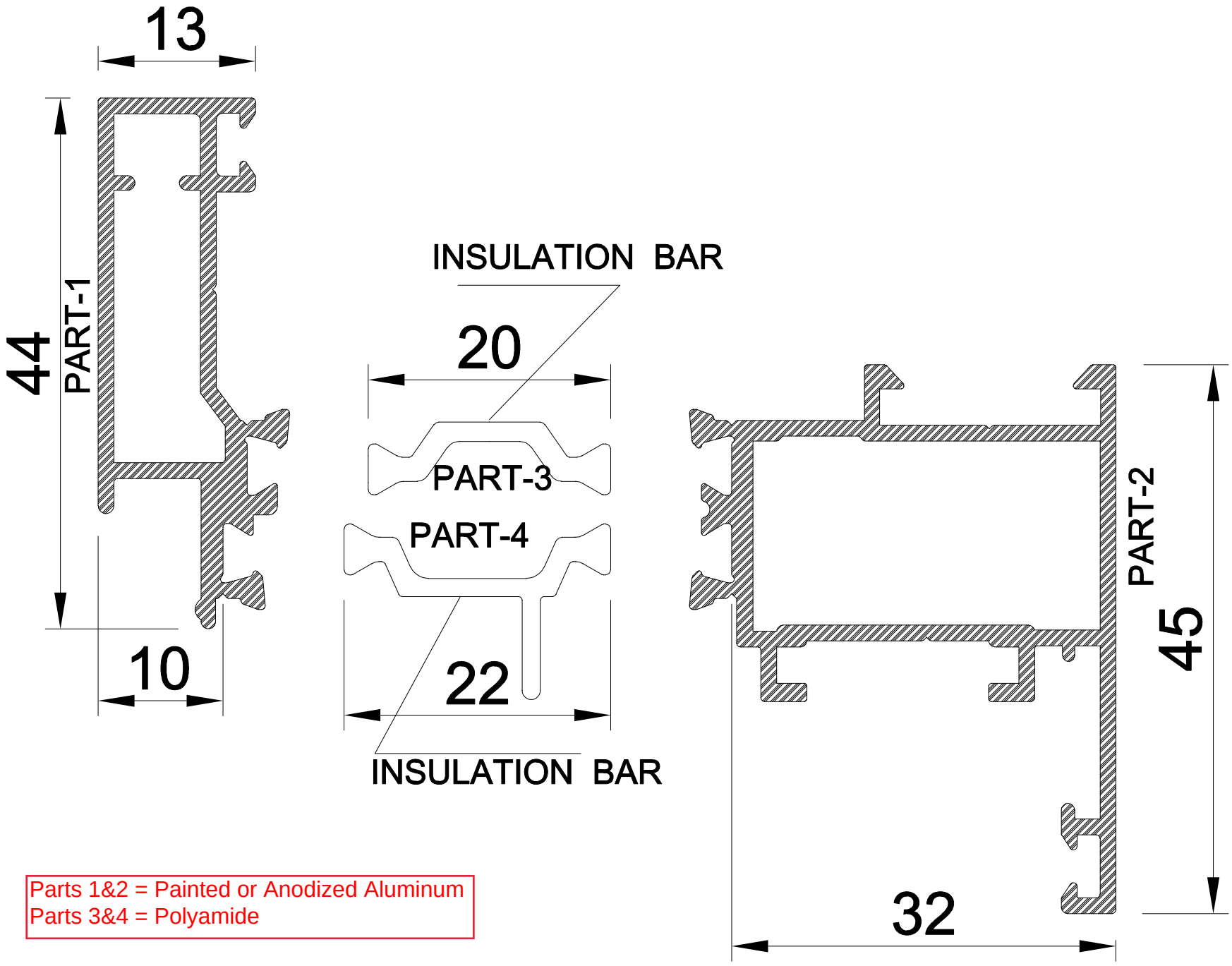
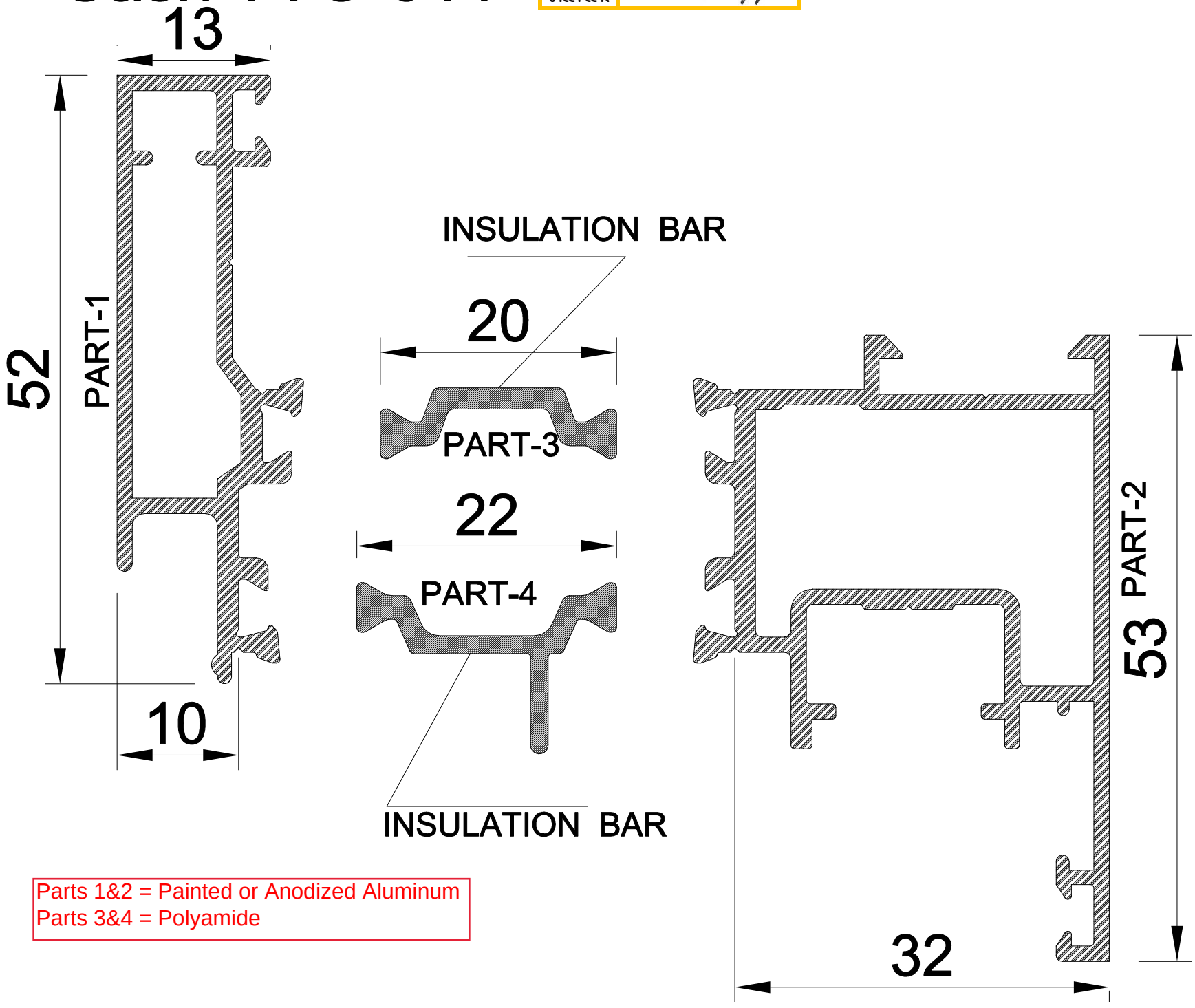


Parts 1&2 = Painted or Anodized Aluminum
Parts 3&4 = Polyamide

Sash TVO-911

Report #: P2848-116-45
Date: 12/01/2022
Verified by:



Parts 1&2 = Painted or Anodized Aluminum
Parts 3&4 = Polyamide

Report #: P2848-116-45
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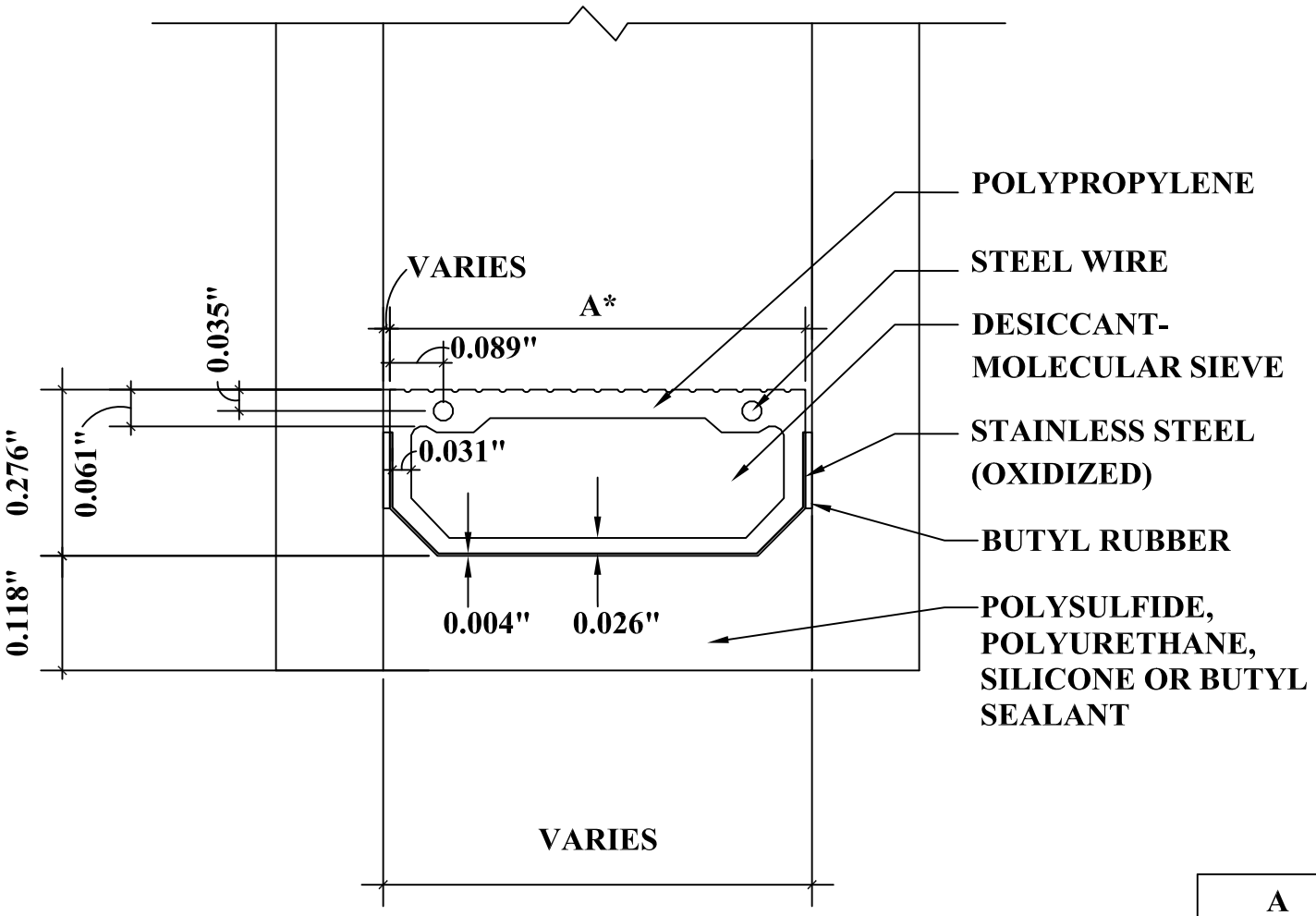
Verified by:



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

A
0.945"
0.866"
0.787"
0.709"
0.630"
0.591"
0.551"
0.472"
0.394"
0.315"

*SPACER AVAILABLE IN 10 SIZES.

Report #: P2848-116-45
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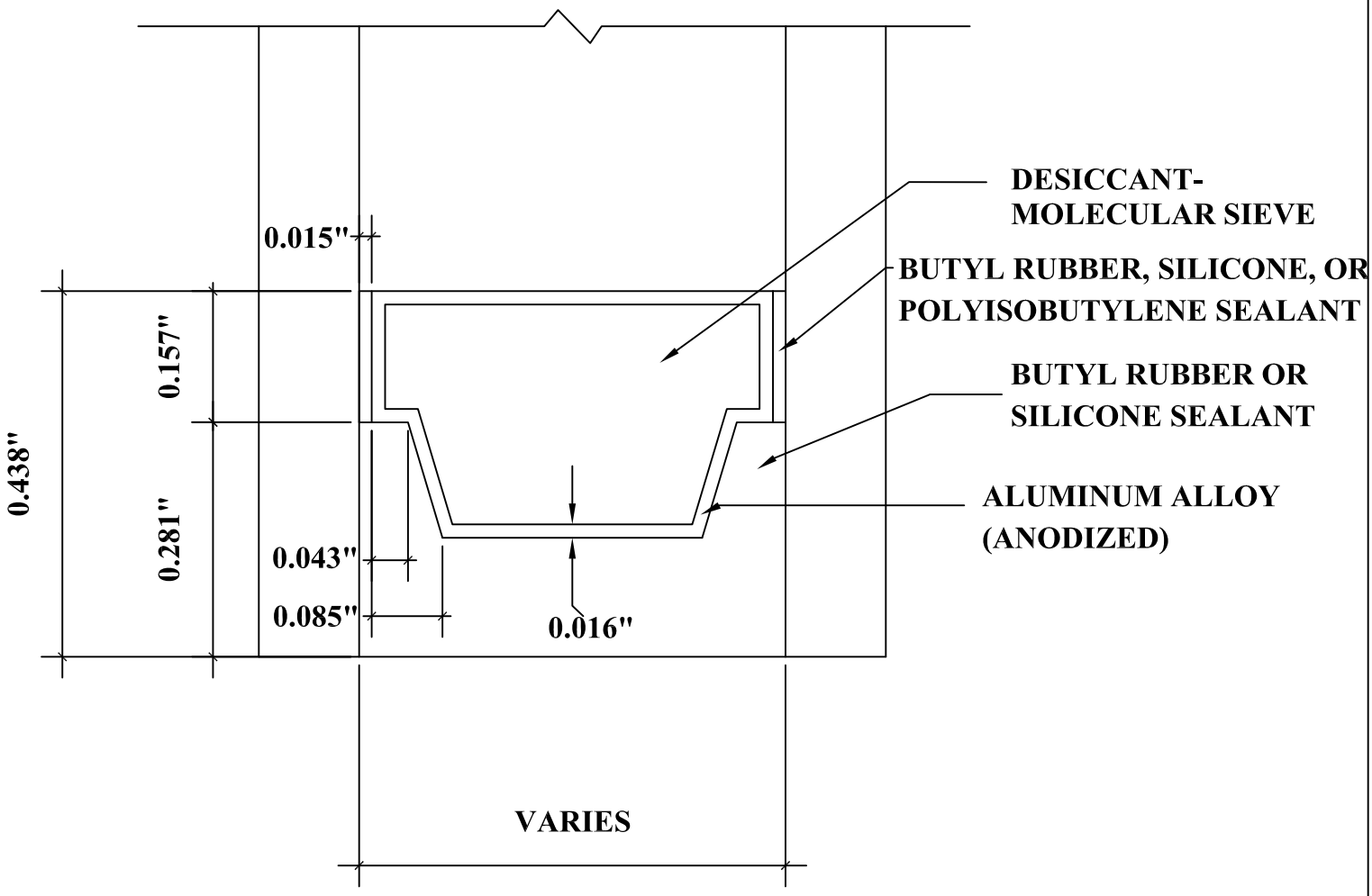

DETAIL FOR THERMAL MODELING OF
ALUMINUM SPACER (A1-D)

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	12/02/22	All	Original report issued to Neon Energy.