

RENAISSANCE WINDOWS AND DOORS

SERIES 9700 VINYL SLIDING GLASS DOOR - OXO, OXXO

THROUGH-FRAME INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE DESIGN PRESSURE(S) STATED HEREIN IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE.

1.1. PERFORMANCE STANDARDS USING IN TESTING:

1.1.1. TAS 201

1.1.2. TAS 202

1.1.3. TAS 203
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NO. E0597.02-550-18 (OXO) AND E0597.01-550-18 (OXXO) AND ASSOCIATED LABORATORY DRAWINGS BY INTERTEK/ARCHITECTURAL TESTING INC.
3. THIS PRODUCT EVALUATION DOCUMENT IS APPROVED FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
4. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
5. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
6. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST,THIS PRODUCT DOES NOT REQUIRE OPENING PROTECTION IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE .
7. SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
8. MATERIALS:

8.1. DOOR FRAME MATERIAL: QUANEX BUILDING PRODUCTS, INC. (MIKRON INDUSTRIES, INC. SUBSIDIARY OF QUANEX) VINYL (PVC) PER THE LATEST MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).

8.2. REINFORCEMENT EXTRUSIONS: 6063-T5 ALUMINUM.

8.3. LAMINATED GLAZING INTERLAYER:

8.3.1. KURARAY AMERICA, INC. TROSIFOL PVB GLASS INTERLAYER PER THE LATEST MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).

8.3.2. KURARAY AMERICA, INC. SENTRYGLAS (SG) INTERLAYER PER THE LATEST MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
9. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04E01.
10. ALL SETTING BLOCKS SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. SETTING BLOCKS SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER.
11. DESIGNATION "O" STANDS FOR FIXED PANEL AND "X" STANDS FOR OPERABLE PANEL.
12. INTERIOR AND EXTERIOR FINISHING AND SEALING ARE FOR ILLUSTRATIVE PURPOSES ONLY. THESE DRAWINGS CERTIFY THE DOOR INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED DOOR IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER AND/OR THE INSTALLER.

PERFORMANCE RATING			
MAXIMUM NOMINAL DOOR SIZE	GLAZING DETAIL (SEE SHEET 6)	DESIGN PRESSURE (PSF)	IMPACT RATING
146" X 96" OXO	A	+/- 50	LARGE MISSILE IMPACT
192" X 96" OXXO	B	+/- 50	

INSTALLATION NOTES:

1. PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
2. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, INCLUDING MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.

2.1. EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.

2.2. MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
3. SEE SHEETS 5 THROUGH 8 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
4. TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEETS 3 AND 4.
5. ANCHOR QUANTITIES AND SPACING / EMBEDMENT AND EDGE DISTANCE

5.1. THE NUMBER OF INSTALLATION ANCHORS IS BASED ON THE MAXIMUM END DISTANCE (ED) AND THE MAXIMUM ON CENTER (O.C.) SPACING PLACEMENT OF ANCHORS IN ACCORDANCE WITH ELEVATIONS ON SHEETS 3 AND 4.

5.2. END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE ELEVATIONS ON SHEETS 3 AND 4 ARE ACCEPTABLE.

5.3. FOR DOOR SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.

5.4. ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON THE LOWER OF ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.

5.5. SEE EMBEDMENT AND EDGE DISTANCE DESCRIPTION ON SHEET 2.
6. MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
7. FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
8. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE INSTALLATION ANCHOR SCHEDULE ON SHEET 2.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES, INSTALLATION NOTES, TABLE OF CONTENTS
2	ANCHOR SCHEDULE - EMBEDMENT AND EDGE DISTANCE
3	144" X 96" OXO SGD ELEVATION & ANCHORING LAYOUT
4	196" X 96" OXXO SGD ELEVATION & ANCHORING LAYOUT
5	OXO AND OXXO VERTICAL CROSS SECTIONS
6	OXO VERTICAL CROSS SECTION AND GLAZING DETAIL
7	OXO HORIZONTAL CROSS SECTIONS
8	OXXO HORIZONTAL CROSS SECTIONS
9	BILL OR MATERIALS

PROJECT # 419-0901

RENAISSANCE WINDOWS AND DOORS
13340 INTERNATIONAL PARKWAY
JACKSONVILLE, FL 32218

SERIES 9700 VINYL SLIDING GLASS DOOR - OXO & OXXO
GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS

PREPARED BY:

DATE: 03/17/2020

DRAWING NO: RWD0020

SHEET: 1 OF 9

DRAWN BY: RJA

SCALE: N.T.S.

REV: First Issue

PTC PRODUCT DESIGN GROUP, LLC

PO BOX 520775

LONGWOOD, FLORIDA 32752

FBPE,CA,NO,25535

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Robert J. Amoruso, P.E.
Florida P.E. No. 49752

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Date: 2020.03.24 11:36:35 -04'00'

INSTALLATION ANCHOR SCHEDULE									
INSTALLATION TYPE	SECTION VIEW	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	MIN. EMBEDMENT (IN)	MIN. EDGE DISTANCE (IN)	MIN. SPACING (IN) BETWEEN FRAME ANCHORS (SEE NOTE 3)	ANCHOR CAPACITIES BASED ON
THROUGH FRAME ANCHOR	SECTIONS A THRU G (SHEETS 5 TO 8)	HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1	1-1/8	3	MIN. 2000 PSI CONCRETE
				MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1	2	3	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT (DENSITY > 117 PCF)
		PAN HEAD (SHOWN ON SHEETS 5 TO 8)	No. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2) GRADE 2 EQUIVALENT (SHOWN ON SHEETS 5 TO 8)	1-3/8	3/4	2 1/2	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42.
					ASME B18.6.4 (TAPPING SCREW) (2) GRADE 2 EQUIVALENT				
NOTES: 1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE. 2) FOR WOOD SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.112" PILOT HOLE (DRILL SIZE 34). FOR TAPPING SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.121" PILOT HOLE (DRILL SIZE 31). 3) TWO (2) ANCHORS PER LOCATION ALLOWED TO HAVE 2.45" SEPARATION. 3" SPACING IS BETWEEN ANCHOR LOCATIONS SHOWN IN ELEVATION.									

FRAME ANCHORAGE

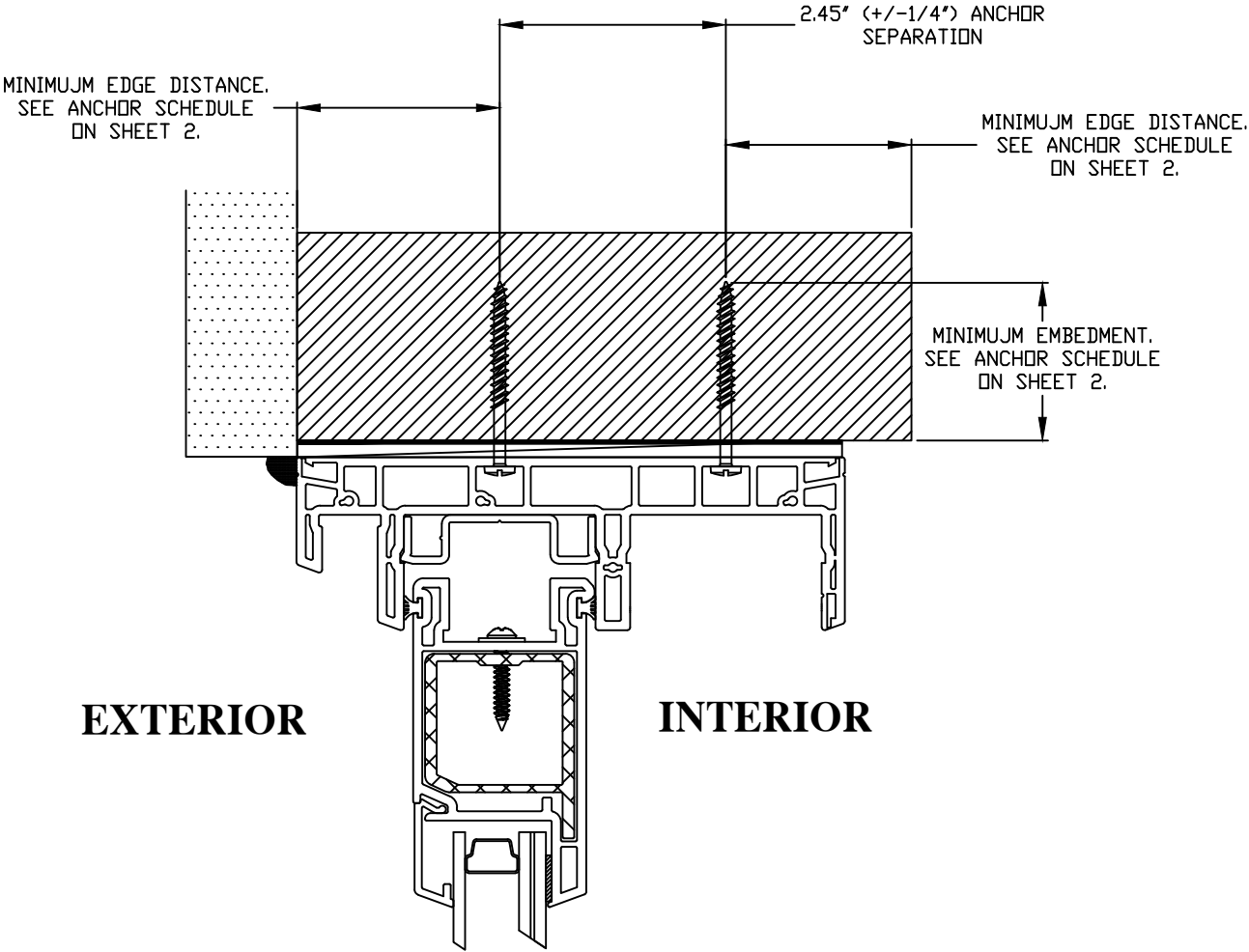
MINIMUM EMBEDMENT

AND EDGE DISTANCE

THROUGH-FRAME INSTALLATION

OPERABLE AND FIXED DOOR PANELS

(OPERABEL HEAD PANEL SHOWN)



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PROJECT # 419-0901

RENAISSANCE WINDOWS AND DOORS
13340 INTERNATIONAL PARKWAY
JACKSONVILLE, FL 32218

SERIES 9700 VINYL SLIDING GLASS DOOR - OXO & OXO
ANCHOR SCHEDULE - EMBEDMENT & EDGE DISTANCE

PREPARED BY:
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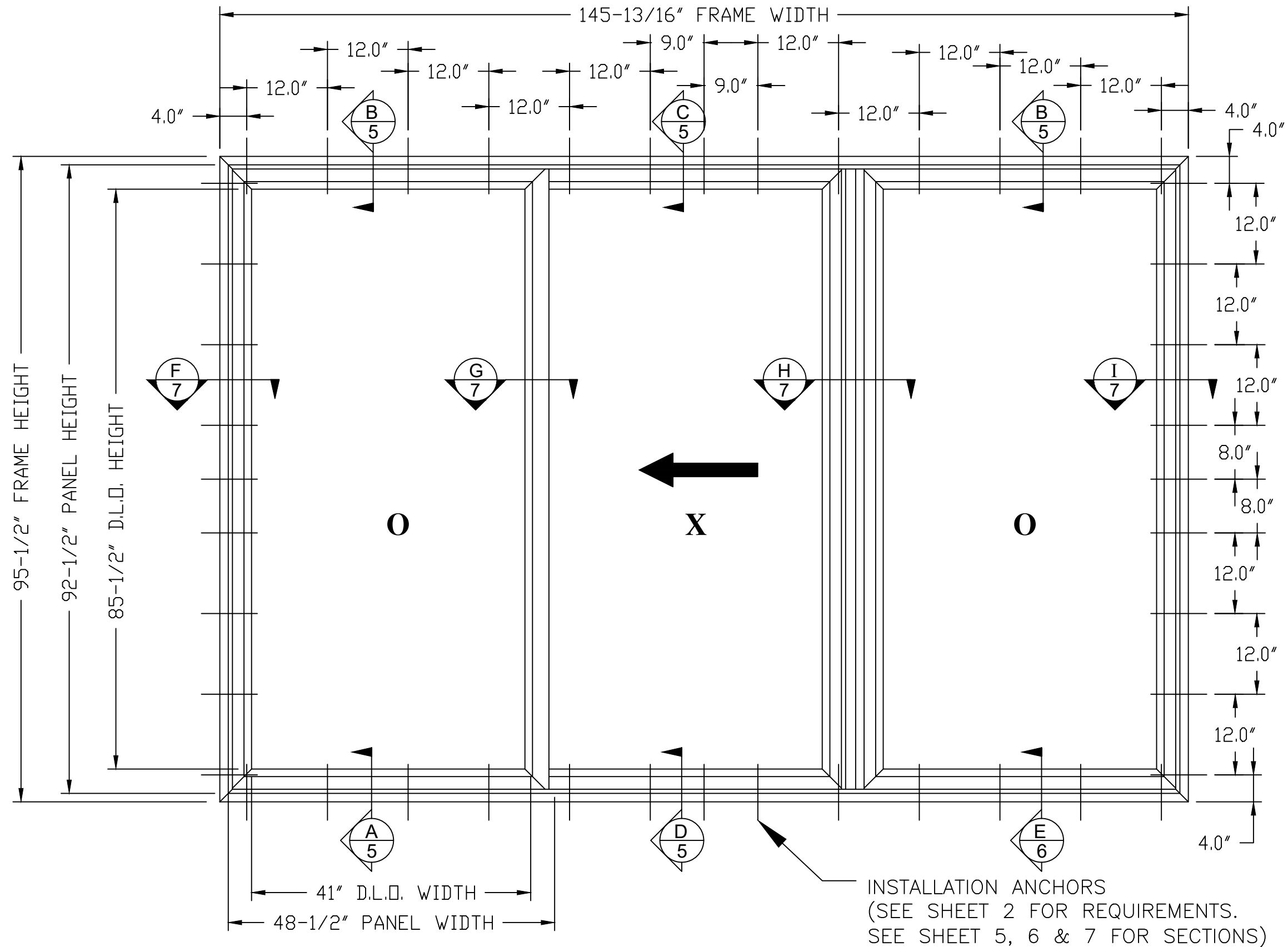
DRAWN BY: RJA
SCALE: N.T.S.
REV: First Issue

DATE: 03/17/2020
DRAWING NO: RWD0020
SHEET: 2 OF 9

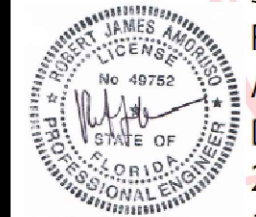
DESCRIPTION

DATE

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SERIES 9700 VINYL OXO SLIDING GLASS DOOR - GLAZING DETAIL A
EXTERIOR VIEW 145-13/16" X 95-1/2" SHOWN (146" X 96" NOMINAL SIZE)



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PROJECT # 419-0901

RENAISSANCE WINDOWS AND DOORS
13340 INTERNATIONAL PARKWAY
JACKSONVILLE, FL 32218

SERIES 9700 VINYL SLIDING GLASS DOOR - OXO & OXO
144" X 96" OXO ELEVATION & ANCHORING LAYOUT

DATE:	03/17/2020
DRAWING NO:	RWD0020
SCALE:	N.T.S.
REV:	First Issue
SHEET:	3 OF 9

PREPARED BY:
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DRAWN BY: RJA

SCALE: N.T.S.

REV: First Issue

SHEET: 3 OF 9

DESCRIPTION

DATE

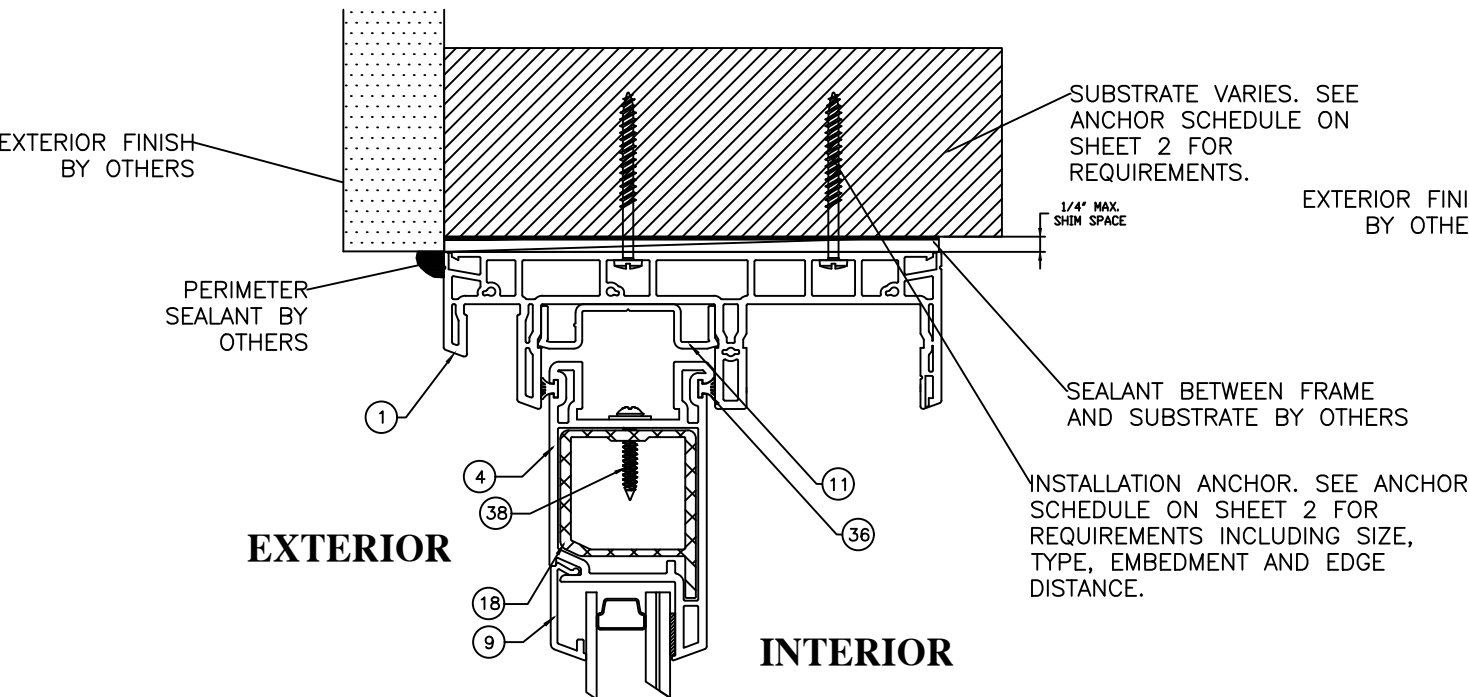
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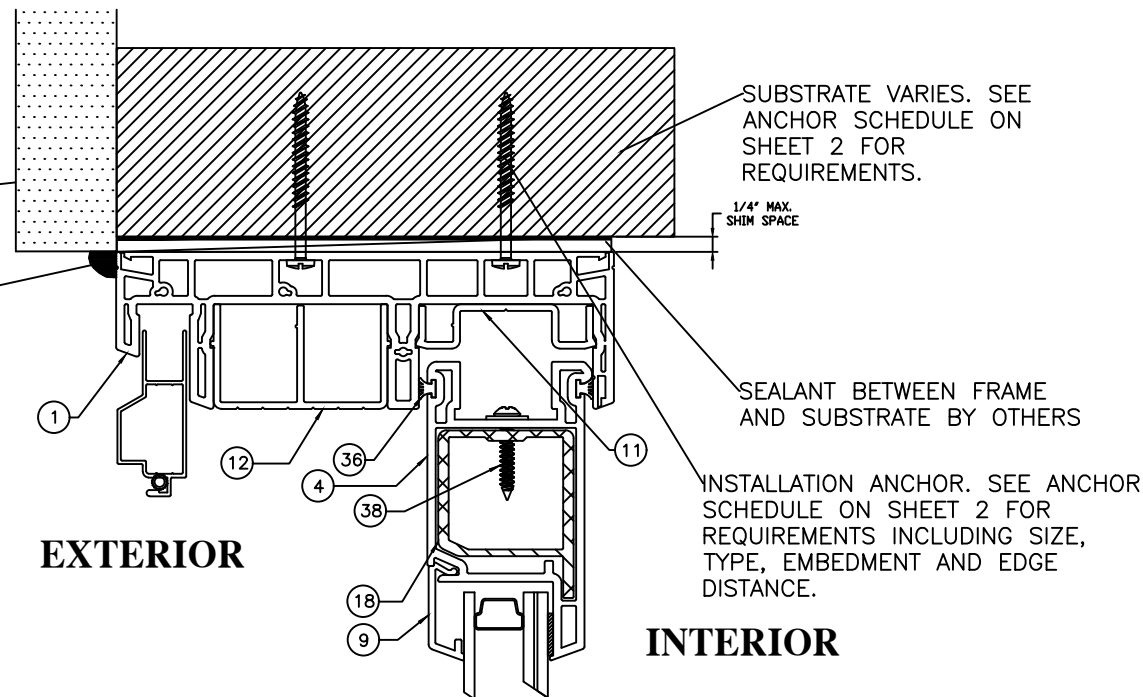
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Date: 2020.03.24 11:36:35 -04'00'

BY

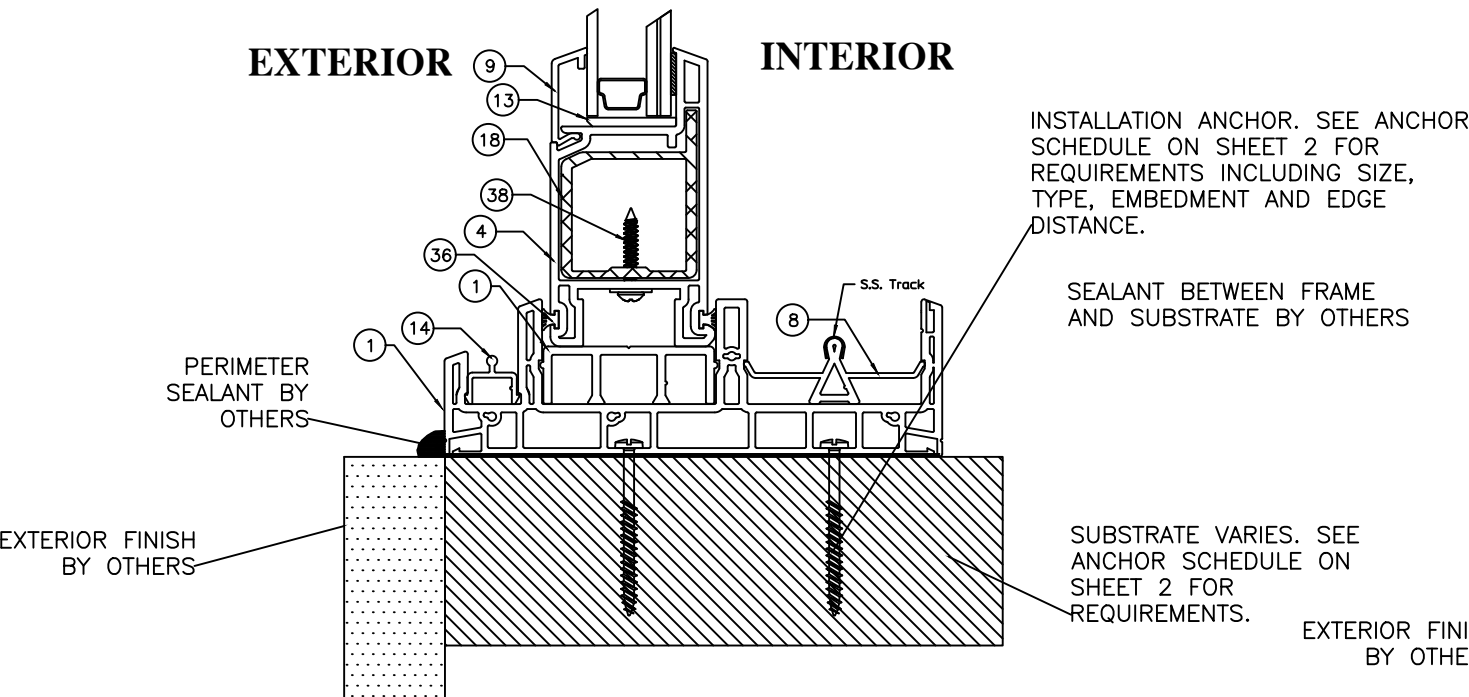
OXO AND OXXO VERTICAL CROSS SECTIONS
THROUGH-FRAME INSTALLATION



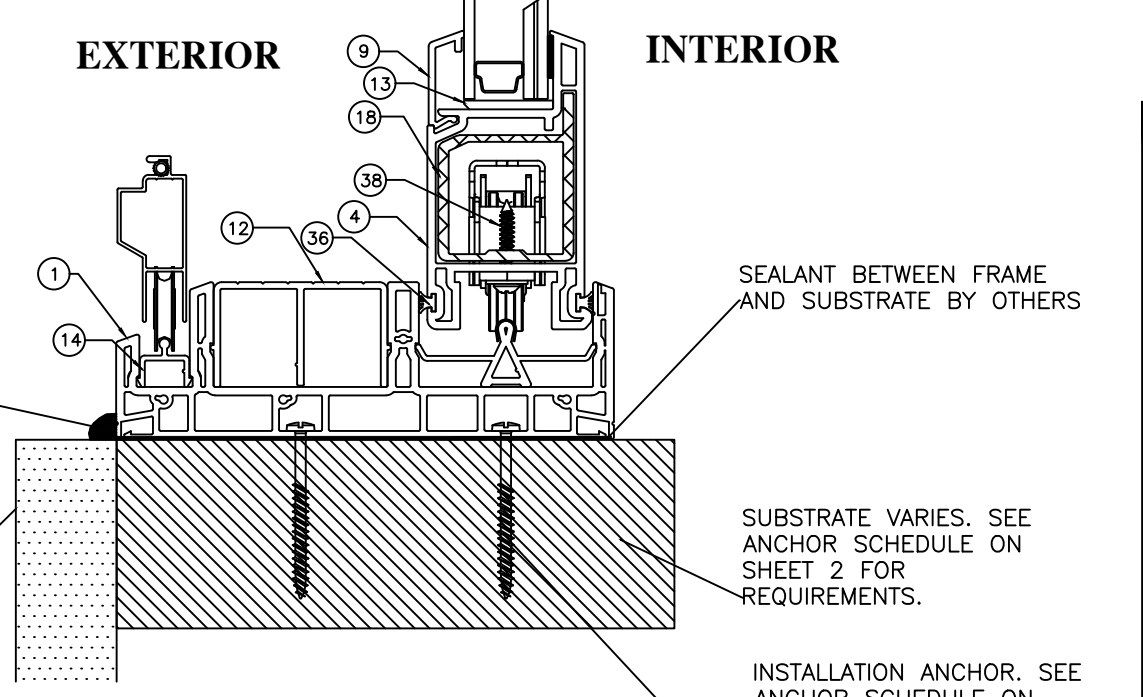
B
5
HEAD CROSS SECTION
THROUGH-FRAME INSTALLATION
FIXED DOOR PANEL



C
5
HEAD CROSS SECTION
THROUGH-FRAME INSTALLATION
OPERABLE DOOR PANEL



A
5
SILL CROSS SECTION
THROUGH-FRAME INSTALLATION
FIXED DOOR PANEL



D
5
SILL CROSS SECTION
THROUGH-FRAME INSTALLATION
OPERABLE DOOR PANEL

PROJECT # 419-0901

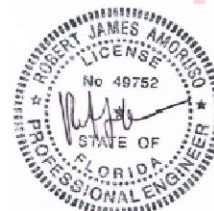
RENAISSANCE WINDOWS AND DOORS
13340 INTERNATIONAL PARKWAY
JACKSONVILLE, FL 32218

SERIES 9700 VINYL SLIDING GLASS DOOR - OXO & OXXO
OXO AND OXXO VERTICAL CROSS SECTIONS

DATE:	03/17/2020
DRAWING NO:	RWD0020
SCALE:	N.T.S.
REV:	First Issue
SHEET:	5 OF 9

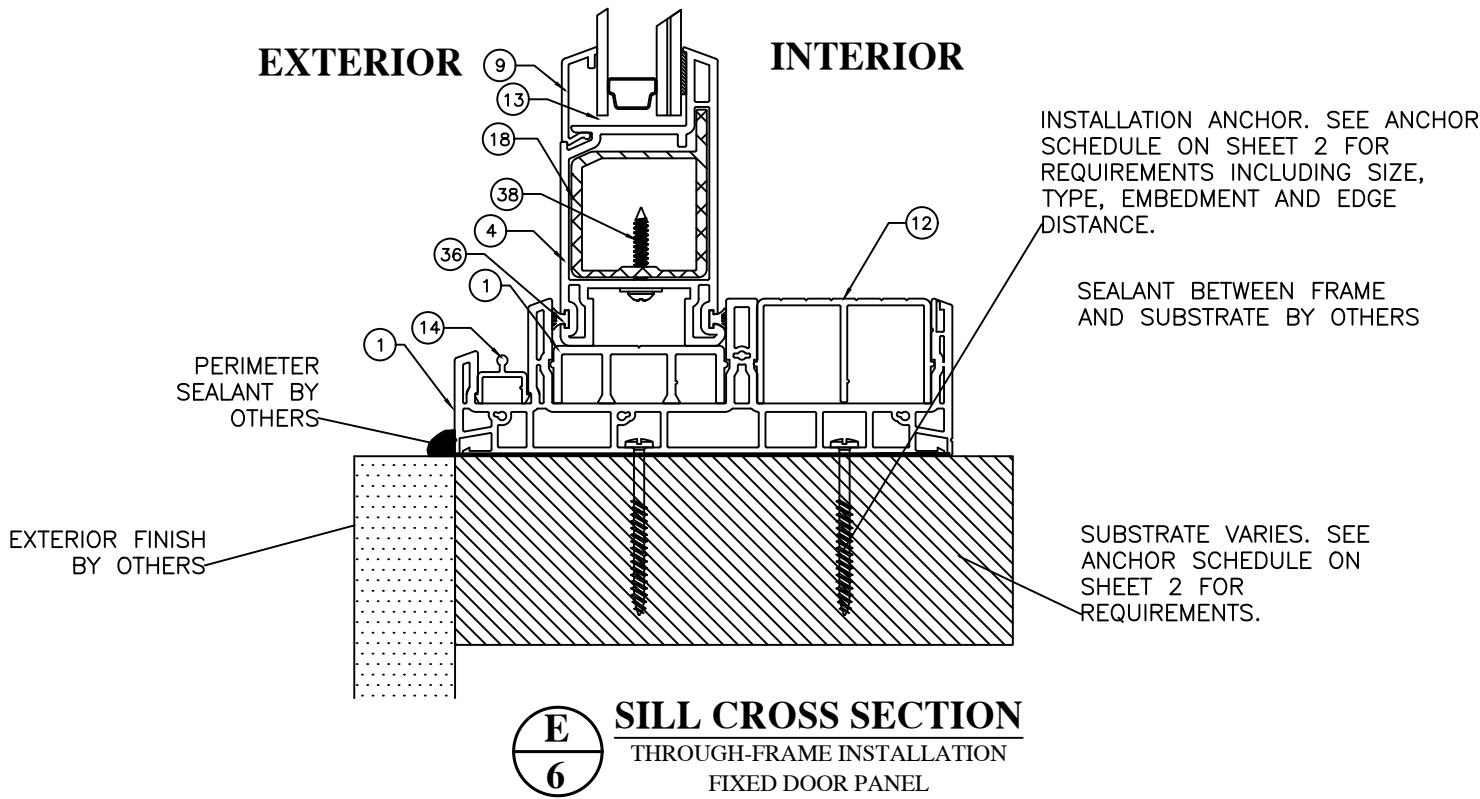
BY
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DESCRIPTION
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Robert J. Amoruso, P.E.
Florida P.E. No. 49752

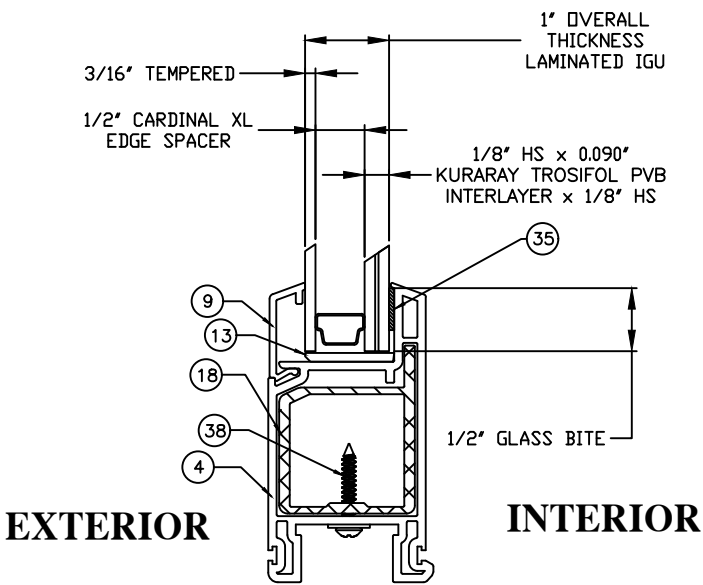


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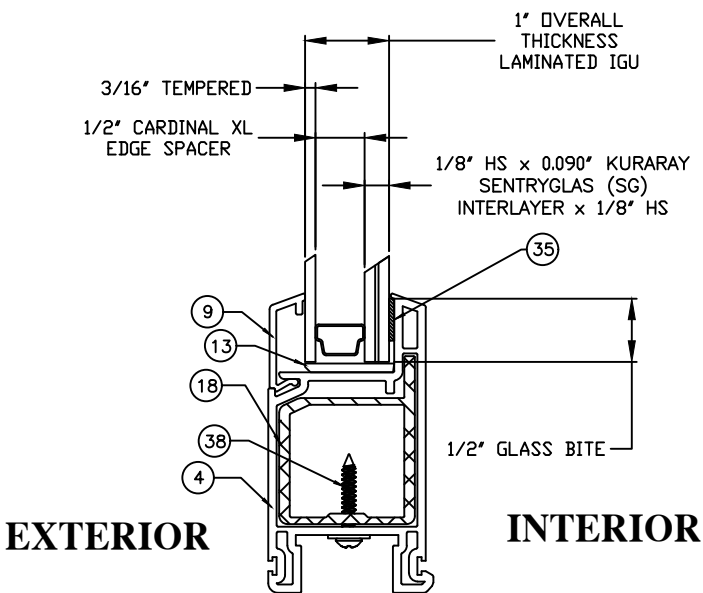
OXO VERTICAL CROSS SECTION
THROUGH-FRAME INSTALLATION



GLAZING DETAIL
INSULATING GLASS UNIT



GLAZING DETAIL A



GLAZING DETAIL B

- NOTES:
1. A MINIMUM OF TWO (2) NEOPRENE SETTING BLOCKS WITH 70 TO 90 SHORE A DUROMETER HARDNESS ARE REQUIRED AT BOTTOM (SILL) OF GLAZING LITES MORE THAN 3 FEET IN WIDTH.
 2. FIXED PANEL RAIL SHOWN. ALL OTHER GLAZING DETAILS SAME FOR FIXED AND OPERABLE PANEL RAIL AND STILE GLAZING.

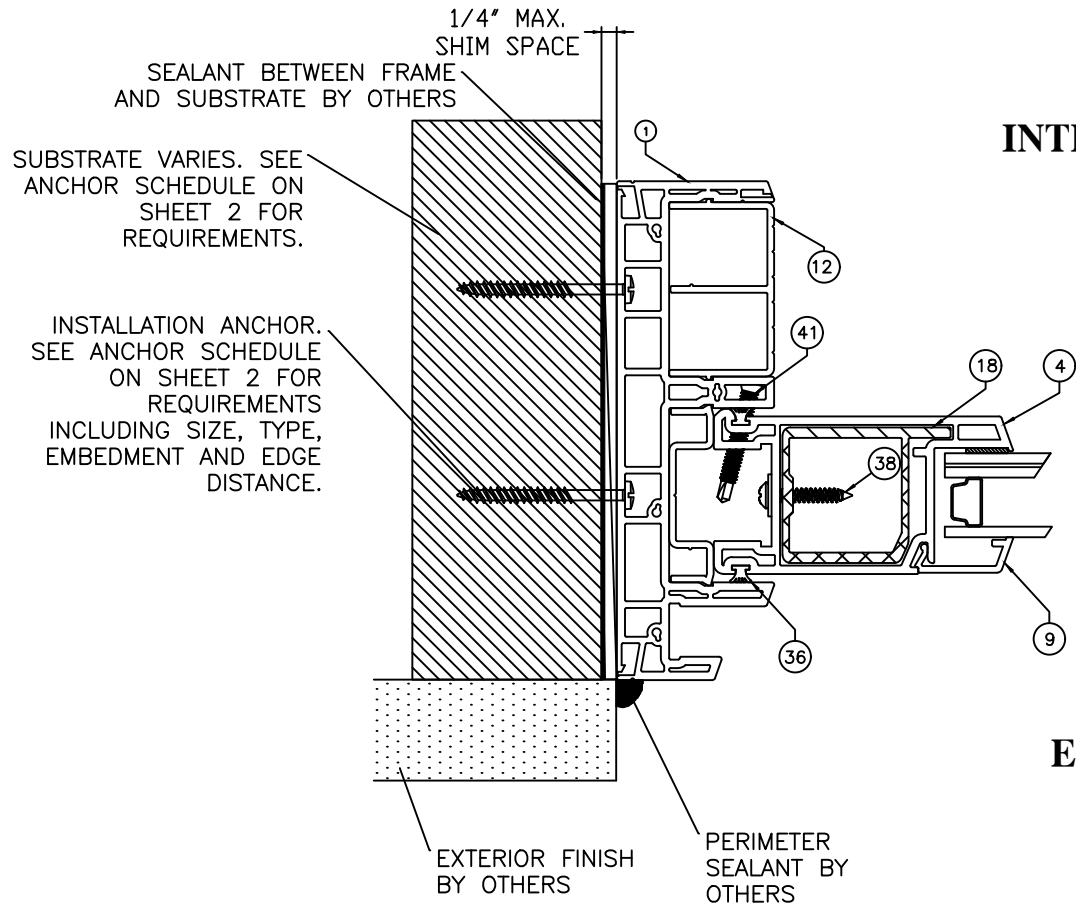
PROJECT # 419-0901					DATE	BY
RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218	SERIES 9700 VINYL SLIDING GLASS DOOR - OXO & OXO OXO VERTICAL CROSS SECTION & GLAZING DETAIL	DRAWN BY: RJA	DATE: 03/17/2020	SCALE: N.T.S.	REV: First Issue	DESCRIPTION
PREPARED BY: PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 PHONE: 321.690.1788 FAX: 321.690.1789 EMAIL: info@ptc-corp.com	PPE	RJA	03/17/2020	N.T.S.	First Issue	6 OF 9

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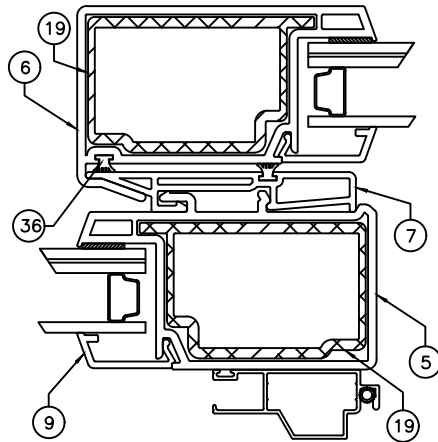
Professional Engineer
No. 49752
STATE OF FLORIDA

OXO HORIZONTAL CROSS SECTIONS
THROUGH-FRAME INSTALLATION



INTERIOR

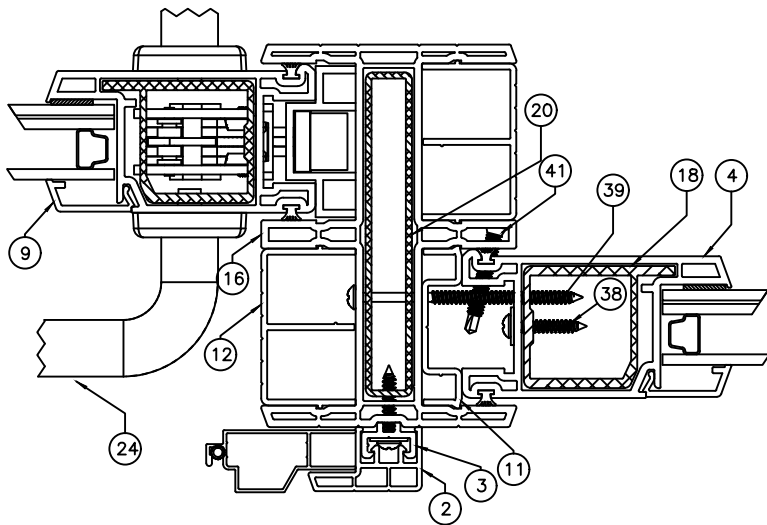
EXTERIOR



**INTERLOCK
CROSS SECTION**
THROUGH-FRAME INSTALLATION
FIXED/OPERABLE DOOR PANELS

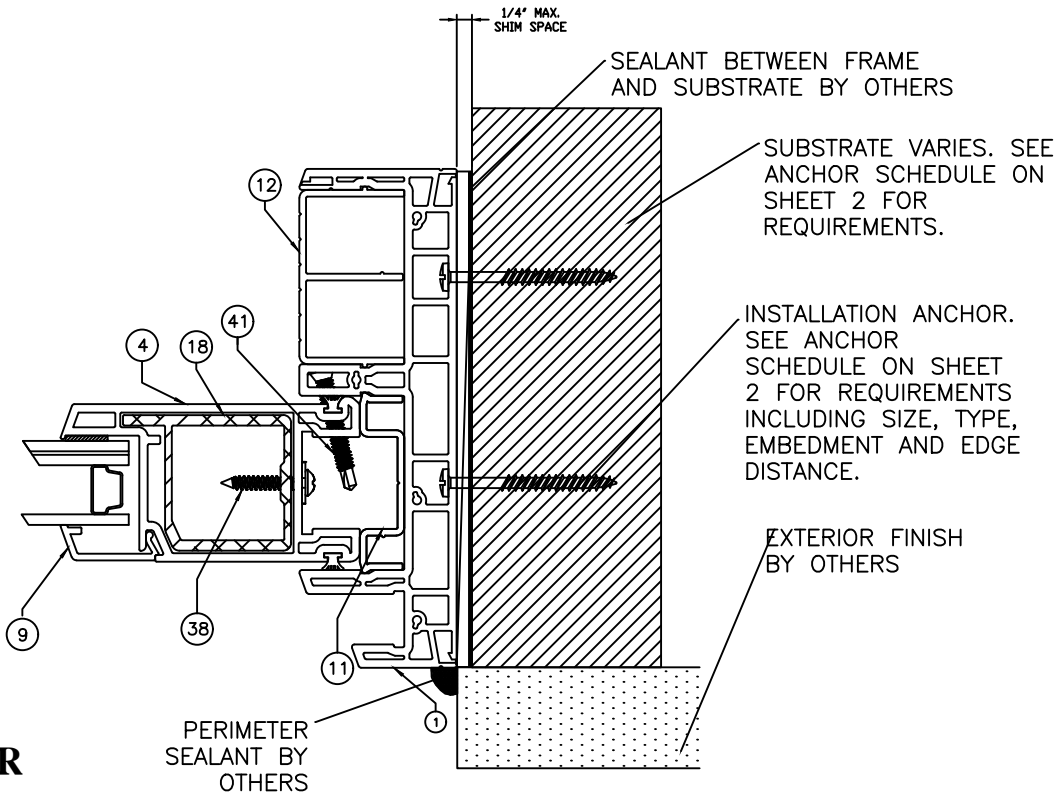
**F
7** **JAMB CROSS SECTION**
THROUGH-FRAME INSTALLATION
FIXED DOOR PANEL

INTERIOR



**H
7** **OXO ADAPTER
CROSS SECTION**
THROUGH-FRAME INSTALLATION
OPERABLE/FIXED DOOR PANEL

EXTERIOR



**I
7** **JAMB CROSS SECTION**
THROUGH-FRAME INSTALLATION
FIXED DOOR PANEL

PROJECT # 419-0901

RENAISSANCE WINDOWS AND DOORS
13340 INTERNATIONAL PARKWAY
JACKSONVILLE, FL 32218

SERIES 9700 VINYL SLIDING GLASS DOOR - OXO & OXO
OXO HORIZONTAL CROSS SECTIONS

DATE:	03/17/2020
DRAWING NO:	RWD0020
SCALE:	N.T.S.
REV:	First Issue
SHEET:	7 OF 9

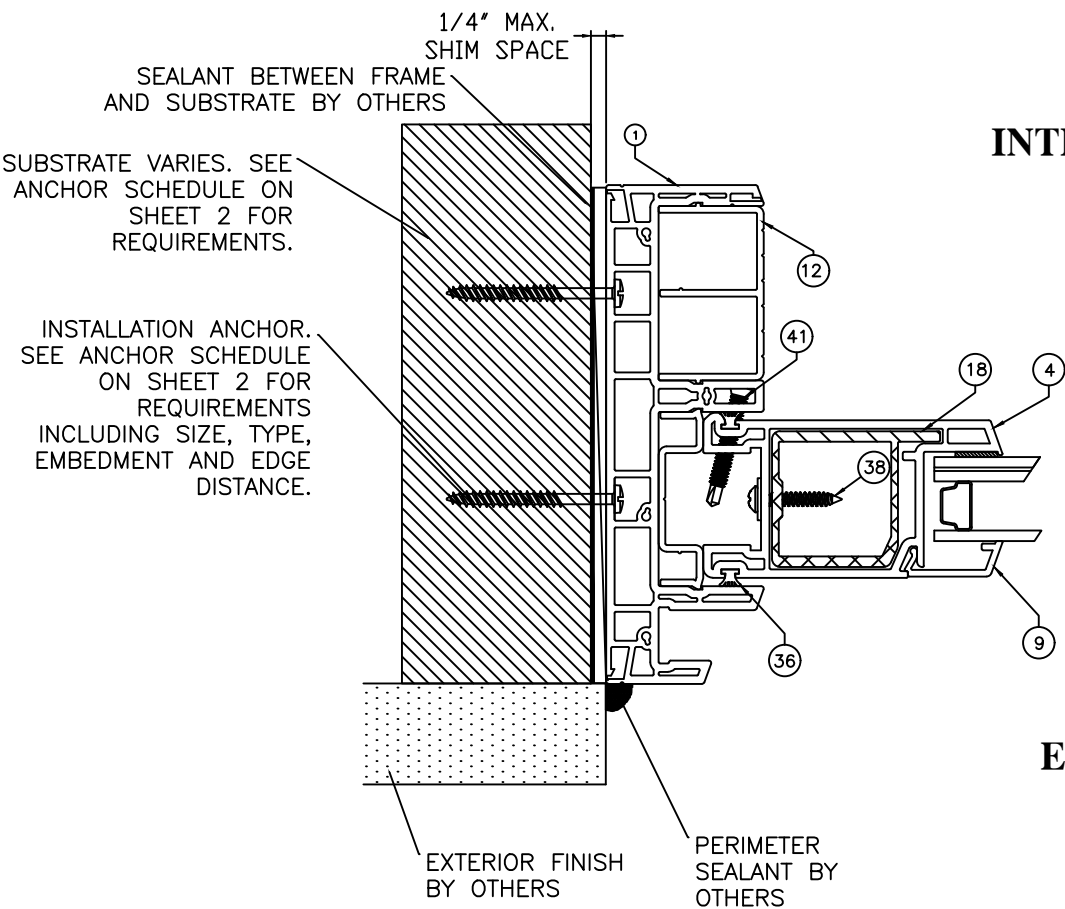
REV DESCRIPTION DATE BY

Robert J. Amoruso, P.E.
Florida P.E. No. 49752

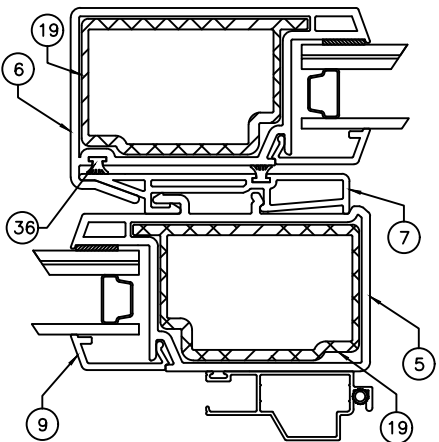


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OXXO HORIZONTAL CROSS SECTIONS
THROUGH-FRAME INSTALLATION



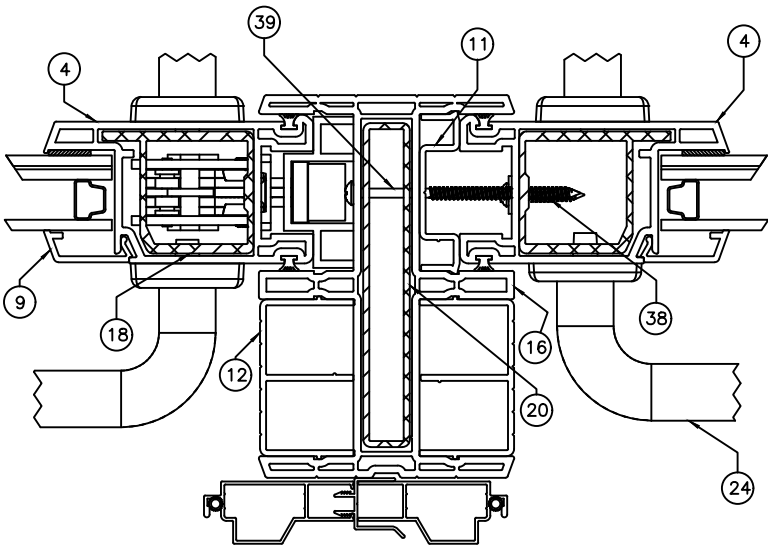
INTERIOR



EXTERIOR

F
8

**INTERLOCK
CROSS SECTION**
THROUGH-FRAME INSTALLATION
FIXED/OPERABLE DOOR PANELS

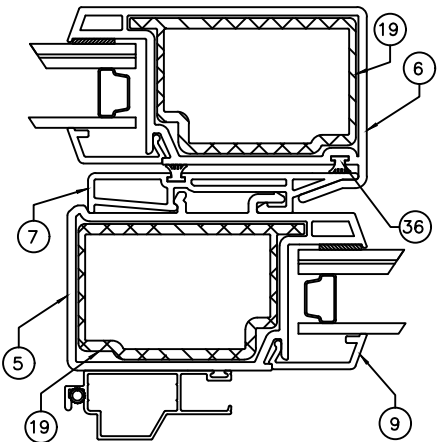


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**OXXO ADAPTER
CROSS SECTION**
THROUGH-FRAME INSTALLATION
OPERABLE DOOR PANEL

E
8

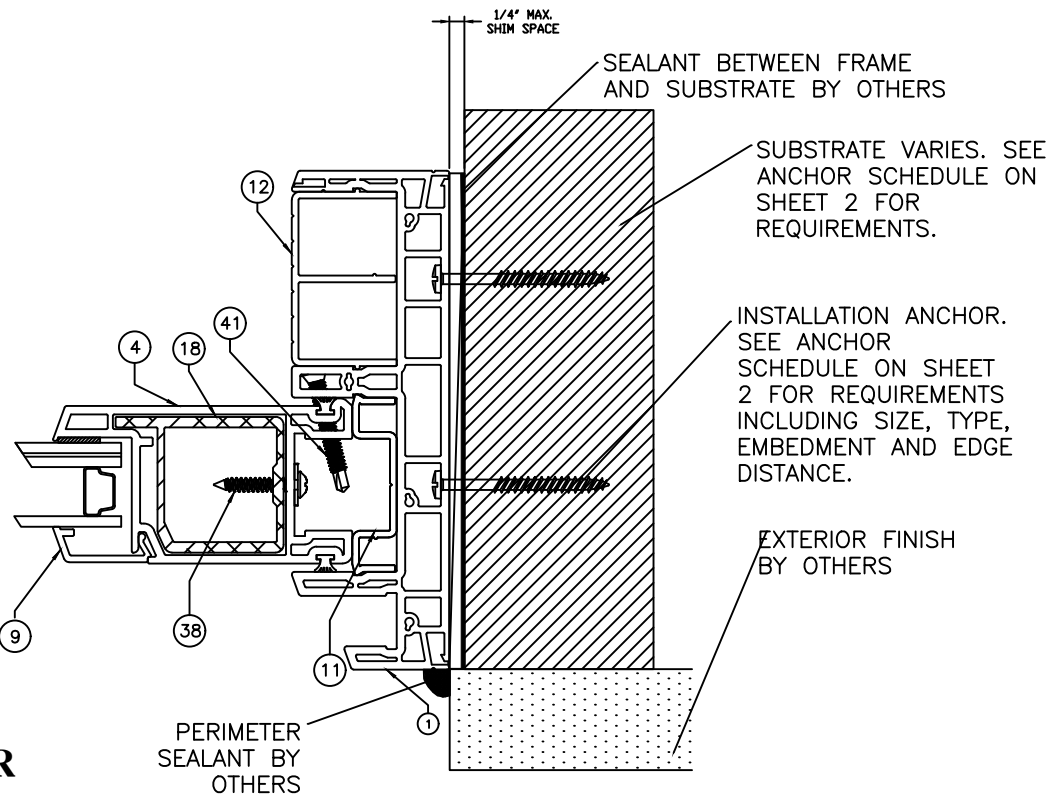
JAMB CROSS SECTION
THROUGH-FRAME INSTALLATION
FIXED DOOR PANEL



H
8

**INTERLOCK
CROSS SECTION**
THROUGH-FRAME INSTALLATION
OPERABLE/FIXED DOOR PANELS

INTERIOR



EXTERIOR

I
8

JAMB CROSS SECTION
THROUGH-FRAME INSTALLATION
FIXED DOOR PANEL

PROJECT # 419-0901

RENAISSANCE WINDOWS AND DOORS

13340 INTERNATIONAL PARKWAY

JACKSONVILLE, FL 32218

SERIES 9700 VINYL SLIDING GLASS DOOR - OXXO & OXXO

OXXO HORIZONTAL CROSS SECTIONS

PREPARED BY:

DRAWN BY: RJA

DATE: 03/17/2020

DRAWING NO: RWD0020

SCALE: N.T.S.

REV: First Issue

SHEET: 6 OF 9

DESCRIPTION

REV

DATE

BY

Robert J. Amoruso, P.E.
Florida P.E. No. 49752



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Date:
2020.03.24
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BILL OF MATERIALS				
BOM NO.	PART NO.	PART DESCRIPTION	COMPANY	REMARKS
VINYL COMPONENTS				
1	8591	FRAME	MIKRON IND. INC.	
2	8036	BRACKET	MIKRON IND. INC.	
3	8037	SCREEN ADAPTOR	MIKRON IND. INC.	
4	7701	PANEL STILE/RAIL	MIKRON IND. INC.	
5	7702	FIXED INTERLOCK PANEL INTERLOCK	MIKRON IND. INC.	
6	7703	PANEL INTERLOCK	MIKRON IND. INC.	
7	7704	INTERLOCK	MIKRON IND. INC.	
8	7705	PANEL TRACK	MIKRON IND. INC.	
9	7706	GLAZING BEAD	MIKRON IND. INC.	
11	7708	ANTI-LIFT	MIKRON IND. INC.	
12	7709	THRESHOLD	MIKRON IND. INC.	
13	6152	SETTING BLOCK	MIKRON IND. INC.	
14	7556	SCREEN TRACK	MIKRON IND. INC.	
16	7964	OXO AND OX XO ADAPTER	MIKRON IND. INC.	
REINFORCEMENT				
18	7701.1.1	REINFORCEMENT - ALUMINUM	ONTARIO EXTRUSIONS	6063-T5
19	7703.1	REINFORCEMENT - ALUMINUM	ONTARIO EXTRUSIONS	6063-T5
20	7964.1.1	REINFORCEMENT - ALUMINUM	ONTARIO EXTRUSIONS	6063-T5
COMMERCIAL DOOR HANDLE SET				
24	6635-1038-01	COMMERCIAL DOOR HANDLE SET COMPRISED OF THE FOLLOWING	AMESBURY	WHITE
25	1988-PRN166MRSS	ROLLER	AMESBURY	
26	6541-1061	SINGLE POINT LOCK	AMESBURY	COMMERCIAL
27	6991-10XX	FACE PLATE	AMESBURY	
28	6635-10XX	INSIDE HANDLE	AMESBURY	C SHAPE SOLID TUBE
29	6636-10XX	OUTSIDE HANDLE	AMESBURY	C SHAPE SOLID TUBE
30	6000-074-01KD1	CYLINDER - MORTISE	AMESBURY	.800 CAM
31	6000-082-01	THUMBTURN - MORTISE	AMESBURY	.800 CAM
32	6990-10XX	STRIKE - COMMERCIAL	AMESBURY	COLLAPSIBLE
33		SCREW PACKAGE	AMESBURY	
GLAZING				
34		1" OVERLL THICKNESS IGU: GLAZING DETAIL A FOR OXO AND DETAIL B FOR OX XO (SEE SHEET 6)		
35		WET GLAZING COMPOUND		SILICONE
MISC.				
36		QUIET FIN WEATHERSTRIP	AMESBURY	.270 High x .187 Back
38	#8 X 1"	WASHER HEAD TEK SCREW - PHILLIPS		
39	#8 X 3"	PAN HEAD SCREW		
41	#10 X 1-1/2"	FLAT HEAD SCREW		
OPTIONAL LOCK & HANDLE SET - NOT SHOWN				
42	191014	SBML 2 POINT MORTICE LOCK	INTERLOCK	
43	PS01-0031	MOUNTING PLATE ASSEMBLY	INTERLOCK	
44	PS01-3035	EXTENDED PINION GEAR	INTERLOCK	
45	PS01-0030	INTUITION HANDLE ASSEMBLY	INTERLOCK	
46	PS01-3040	EXTERIOR PULL	INTERLOCK	
47	PS01-5030	M4 X 26 CSK FLAT TT	INTERLOCK	NEED 2
48	PS01-5014	SCREW M4X50 CSK POZI TT	INTERLOCK	NEED 2
49	PS01-0060	21 MM ADJUSTABLE STRIKE	INTERLOCK	

PROJECT # 419-0901				BY
				DESCRIPTION
				REV
RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218		DATE: 03/17/2020 DRAWING NO: RWD0020 SHEET: 9 OF 9		REV
SERIES 9700 VINYL SLIDING GLASS DOOR - OXO & OX XO BILL OF MATERIALS		DRAWN BY: RJA SCALE: N.T.S. REV: First Issue		

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Date: 2020.03.24 11:36:35 -04'00'