

RENAISSANCE WINDOWS AND DOORS

SERIES 9700 VINYL SINGLE HUNG WINDOW

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE 9th EDITION (2026) FLORIDA BUILDING CODE. TESTING WAS CONDUCTED IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440-08/11, ASTM E1886-05 AND ASTM E1996-05/09.
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NCTL-210-4128-02 AND ASSOCIATED LABORATORY DRAWINGS BY NATIONAL CERTIFIED TESTING LABORATORIES.
3. THIS PRODUCT EVALUATION DOCUMENT IS NOT 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 REQUIRES OPENING PROTECTION IN ACCORDANCE WITH THE 9th EDITION (2026) FLORIDA BUILDING CODE USING AN APPROVED IMPACT PROTECTION DEVICE.
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. WINDOW FRAME MATERIAL: VINYL (PVC).

8.2. LAMINATED GLAZING INTERLAYER: KURARAY AMERICA, INC. TROSIFOL PVB GLASS INTERLAYER PER THE LATEST MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
9. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-24.
10. DESIGNATIONS "X" STANDS FOR OPERABLE LITE/SASH AND "O" STANDS FOR FIXED LITE.
11. THESE DRAWINGS CERTIFY THE FENESTRATION ANCHORAGE INSTALLATION ONLY. WATER-RESISTIVE BARRIER DETAILING OF THE WINDOW IS NOT PART OF THIS INSTALLATION CERTIFICATION. DETAILS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. WATER-RESISTIVE BARRIER DETAILING SHALL BE THE RESPONSIBILITY OF THE INSTALLER. REFER TO THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SECTION 1405.4 AND FLORIDA RESIDENTIAL CODE SECTION R703.4 FOR RECOMMENDATIONS. PER FBC SECTION 1405.4.1.4 AND FRC SECTION R703.4, FMA/AAMA 100-12 AND FMA/AAMA 200-12 CAN BE USED FOR GUIDANCE. ADDITIONALLY, ASTM E2112 CAN BE USED FOR GUIDANCE.

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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 7 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
4. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
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 WINDOW 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.

5.6. TOLERANCE ON ANCHOR LOCATION IS +/-1 INCH.
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.
9. ALL FASTENERS TO BE CORROSION RESISTANT, AND/OR HAVE A CORROSION RESISTANT COATING, OR WHEN EXPOSED TO SALTWATER ENVIRONMENTS WITHIN 3,000 FEET OF A SALTWATER COASTLINE MEET THE REQUIREMENTS OF SECTION 1711, 9TH EDITION (2026) FBC AND SECTION R332, 9TH EDITION (2026) FRC WHEN APPLICABLE.

PERFORMANCE RATING			
MAXIMUM WINDOW SIZE	GLAZING DETAIL (SEE SHEET 8)	DESIGN PRESSURE (PSF)	IMPACT RATING
NOMINAL 48" x 74"	A	+/- 50	WIND ZONE 3 MISSILE LEVEL D

PROJECT # ACE-2025-127				RJA	BY
				8/4/26	DATE
			UPDATE TO THE 9TH EDITION (2026) FBC	A	DESCRIPTION
RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218	TITLE: SERIES 9700 VINYL SINGLE HUNG WINDOW GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS	DRAWN BY: RJA	DATE: 3/27/2020	DRAWING NO: RWD0023	REV
		SCALE: N.T.S.			1 OF 8
		PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RIAENGPE@GMAIL.COM			A

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

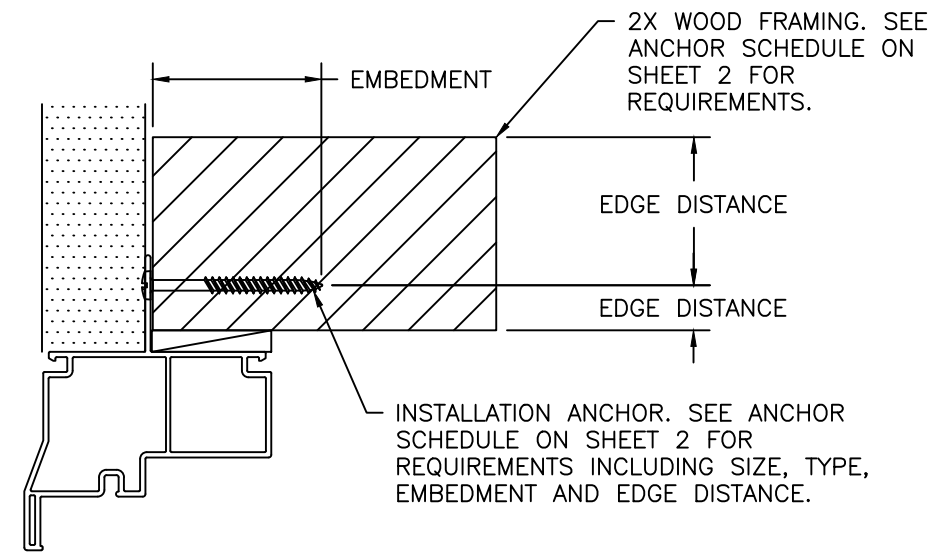


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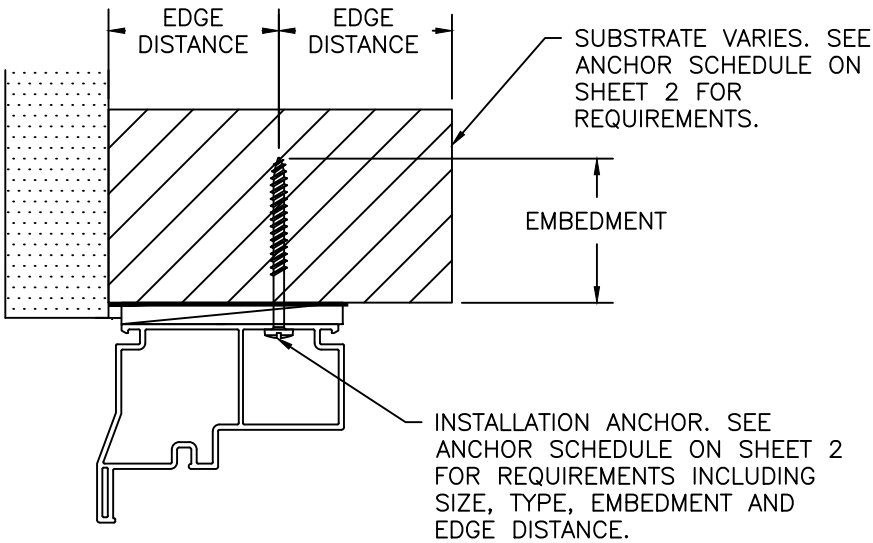
INSTALLATION ANCHOR SCHEDULE									
INSTALLATION TYPE	SECTION VIEW	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	MIN. EMBEDMENT (IN)	MIN. EDGE DISTANCE (IN)	MIN. SPACING (IN) BETWEEN FRAME ANCHORS	ANCHOR CAPACITIES BASED ON
THROUGH FRAME ANCHOR	SECTION A, B & C (SHEETS 7)	HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1	1-1/8	3	MIN. 2500 PSI CONCRETE
				MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1	2	3	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT
		PAN HEAD	No. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2) GRADE 2 EQUIVALENT	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				
SNAP-ON FLANGE WITH THROUGH FRAME ANCHOR	SECTION A, B & C (SHEETS 6)	HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1	1-1/8	3	MIN. 2500 PSI CONCRETE
				MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1	2	3	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT
		PAN HEAD	No. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2) GRADE 2 EQUIVALENT	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				
NAILING FIN ANCHOR	SECTION A, B & C (SHEETS 5)	PAN HEAD	No. 8	WOOD	ANSI B18.6.1 (WOOD SCREW) (3) GRADE 2 EQUIVALENT	1-5/8	1/4	1	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42.
					ASME B18.6.4 (TAPPING SCREW) (3) GRADE 2 EQUIVALENT				

NOTES:

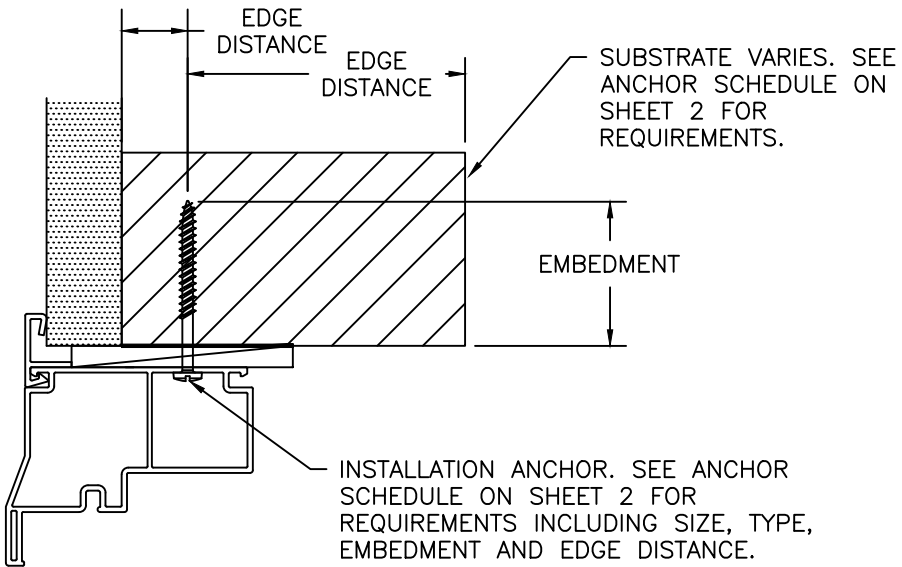
- 1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.
- 2) FOR WOOD SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.090" PILOT HOLE (DRILL SIZE 43). FOR TAPPING SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.121" PILOT HOLE (DRILL SIZE 31).
- 3) FOR WOOD OR TAPPING SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.082" PILOT HOLE (DRILL SIZE 45).



EMBEDMENT AND EDGE DISTANCE
NAILING FIN FRAME INSTALLATION

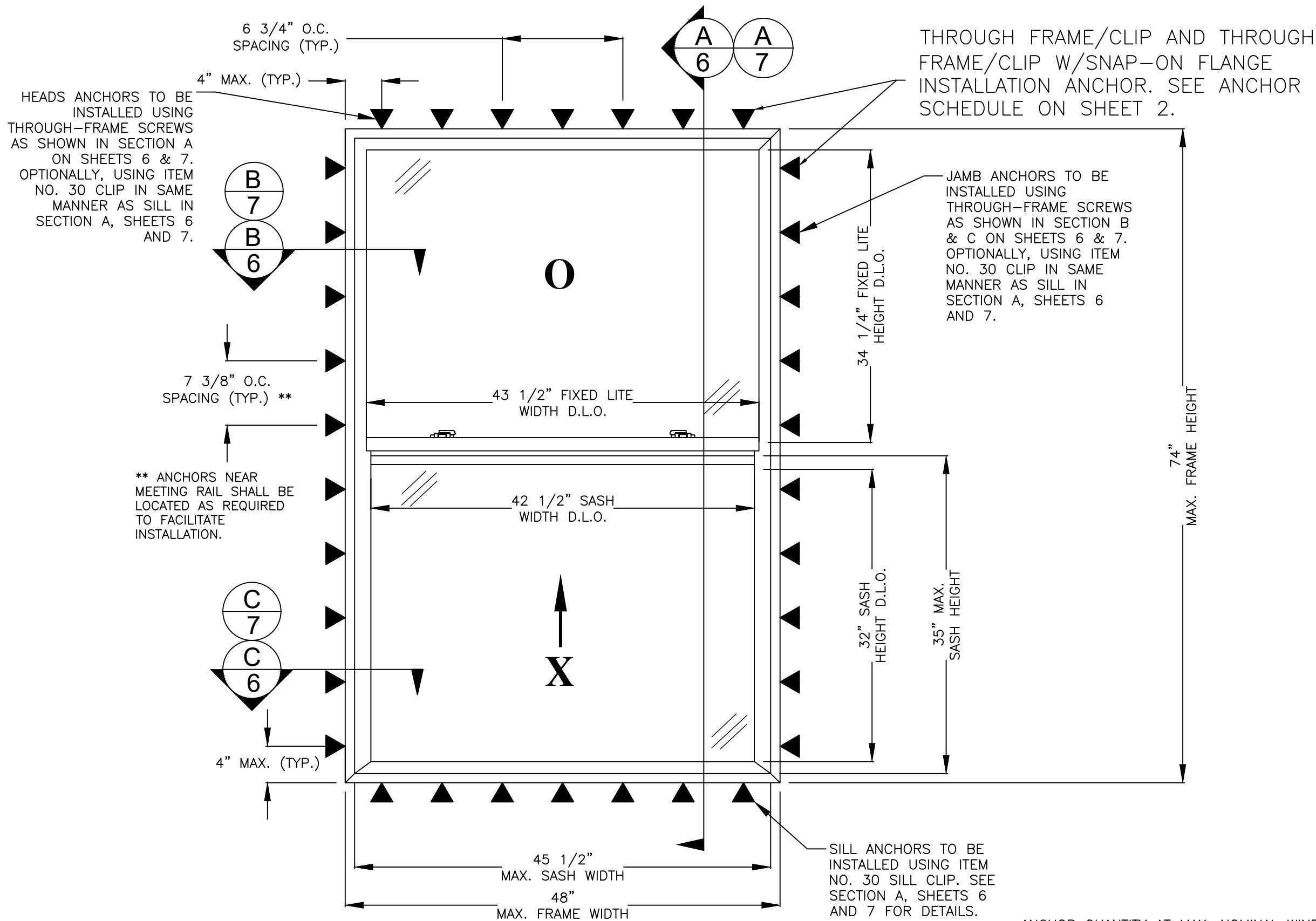


EMBEDMENT AND EDGE DISTANCE
THROUGH-FRAME INSTALLATION



EMBEDMENT AND EDGE DISTANCE
SNAP-ON FLANGE THROUGH-FRAME INSTALLATION

PROJECT # ACE-2025-127					
			A	UPDATE TO THE 9TH EDITION (2026) FBC	8/4/26



SERIES 9700 VINYL SINGLE HUNG WINDOW

EXTERIOR VIEW

48" x 74" NOMINAL SIZE - GLAZING DETAIL A
THROUGH-FRAME/CLIP ANCHOR INSTALLATION

ANCHOR QUANTITY AT MAX. NOMINAL WINDOW SIZE OF 48" X 74" AT SPACING SHOWN ABOVE ARE: QTY PER JAMB IS TEN (10) AND QTY PER HEAD AND SILL IS SEVEN (7).

SEE INSTALLATION NOTE 5.3 ON SHEET 1 FOR DETAILS ON SMALLER WINDOW SIZES.

► DENOTES THROUGH FRAME ANCHOR LOCATION

PROJECT # ACE-2025-127

RENAISSANCE WINDOWS AND DOORS
13340 INTERNATIONAL PARKWAY
JACKSONVILLE, FL 32218

TITLE: SERIES 9700 VINYL SINGLE HUNG WINDOW
48" x 74" WINDOW ELEVATION/THROUGH FRAME ANCHORING LAYOUT

PREPARED BY: AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RIAENGPE@GMAIL.COM

DRAWN BY: RJA

SCALE: N.T.S.

REV: A

DATE: 3/27/2020

DRAWING NO: RWD0023

SHEET: 4 OF 8

UPDATE TO THE 9TH EDITION (2026) FBC

REV: A

DESCRIPTION

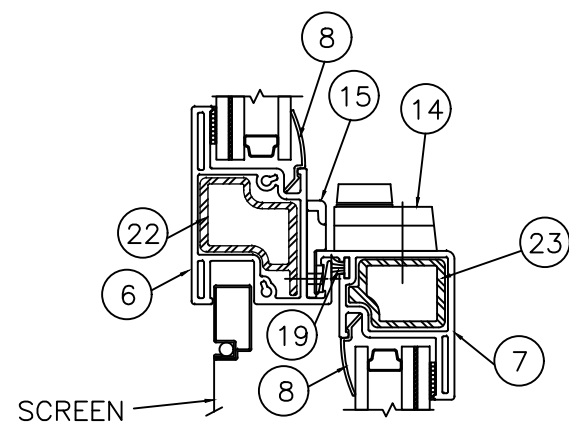
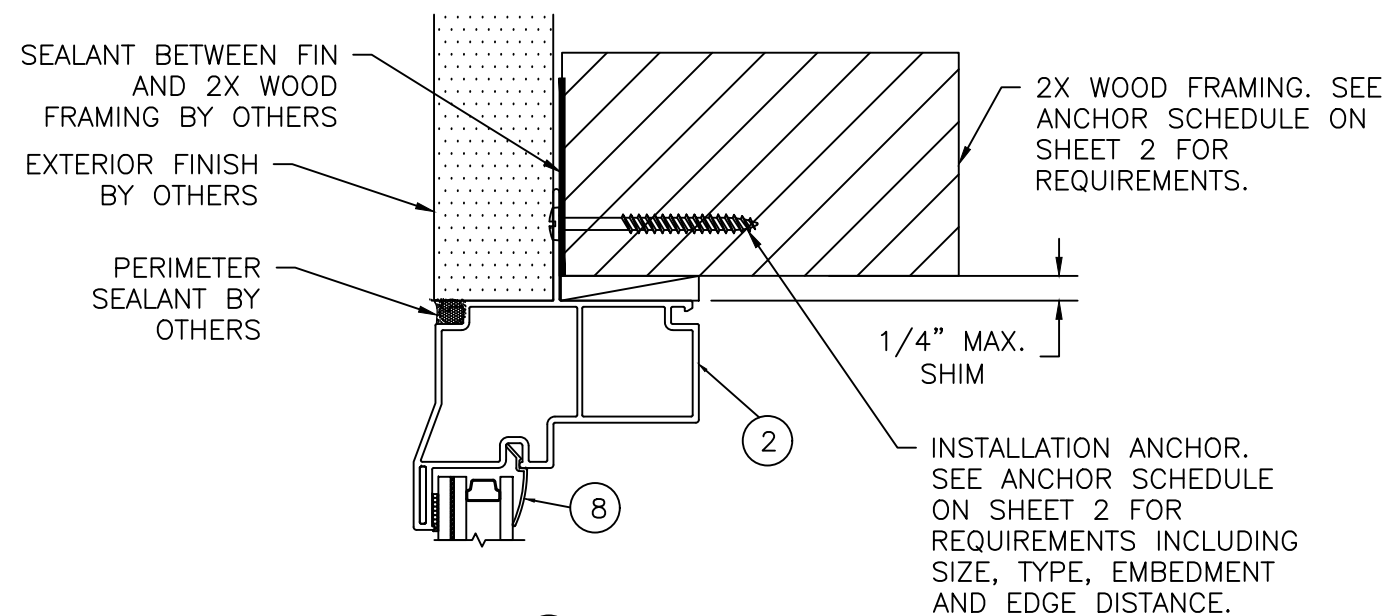
DATE

BY

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

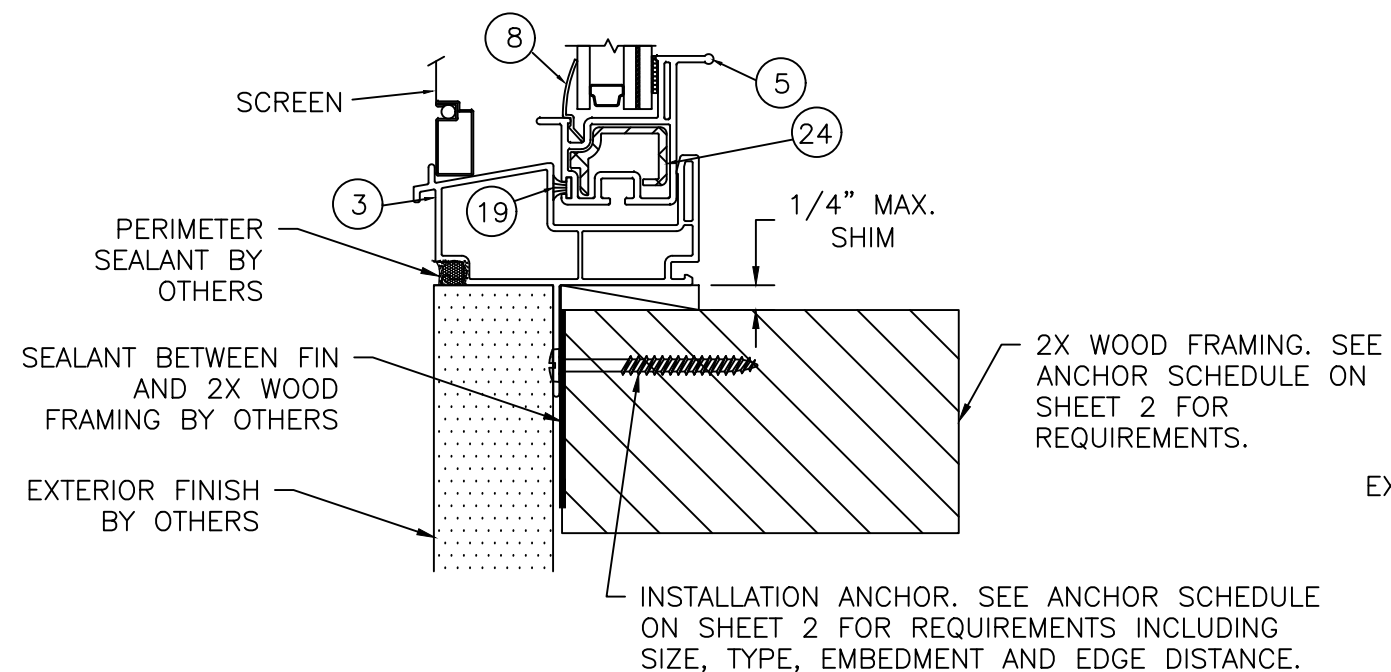


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EXTERIOR

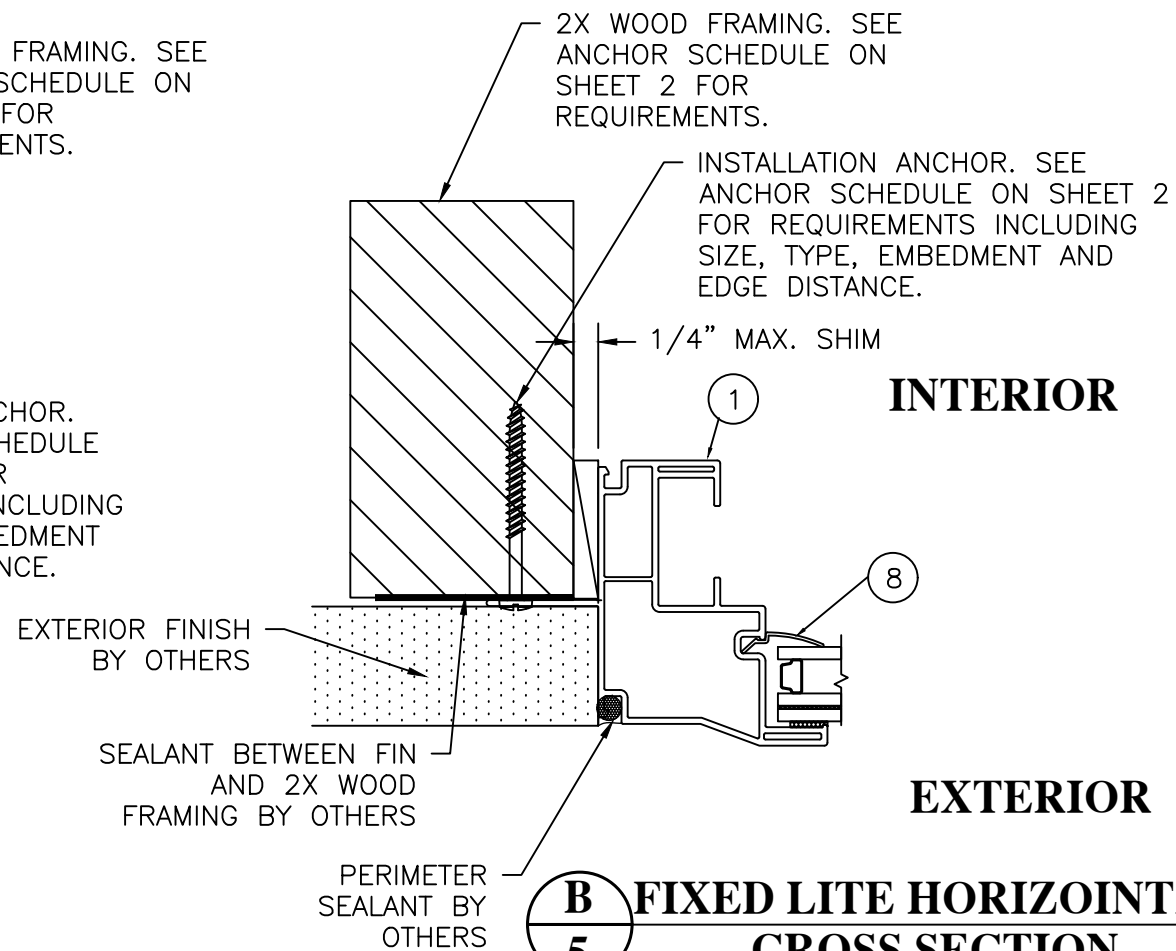
INTERIOR



A VERTICAL CROSS SECTION

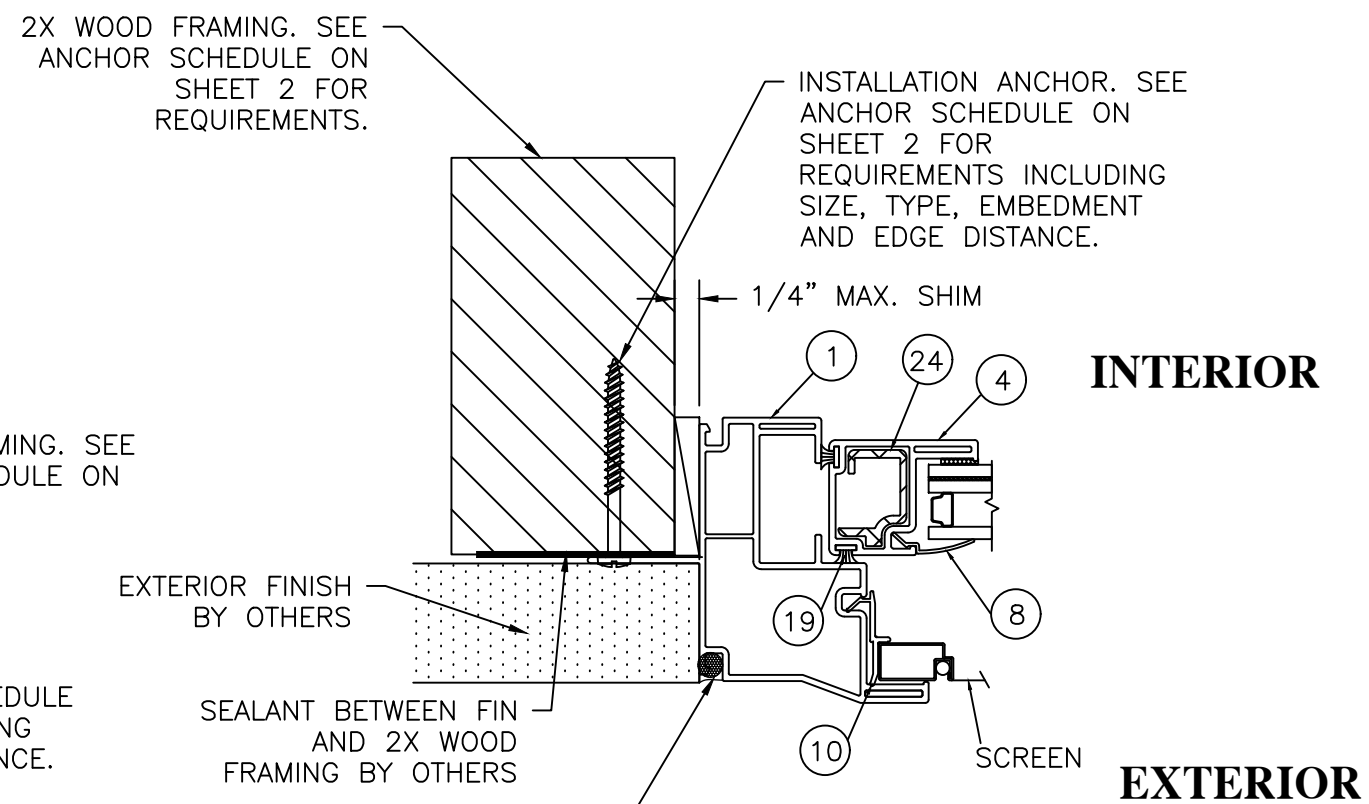
5 NAILING FIN FRAME INSTALLATION

NAILING FIN FRAME INSTALLATION



B **5** **FIXED LITE HORIZOINTAL CROSS SECTION**

NAILING FIN FRAME INSTALLATION



C SASH LITE HORIZONTAL 5 CROSS SECTION

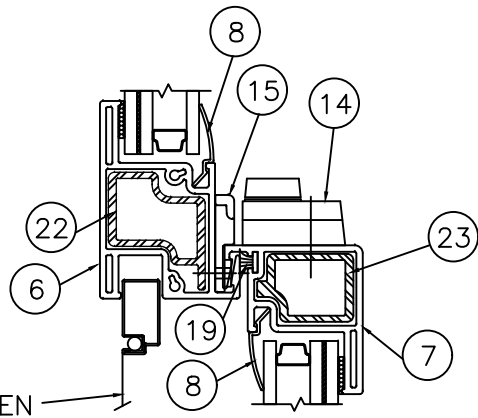
NAILING FIN FRAME INSTALLATION

RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218		PROJECT # ACE-2025-127	
TITLE: SERIES 9700 VINYL SINGLE HUNG WINDOW NAILING FIN (FIN FRAME) INSTALLATION			
PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM			
DRAWN BY: RJA	DATE: 3/27/2020		
SCALE: N.T.S.	DRAWING NO: RWD00023		
REV: A	SHEET: 5 OF 8	A	UPDATE TO THE 9TH EDITION (2026) FBC
		REV	DESCRIPTION DATE BY

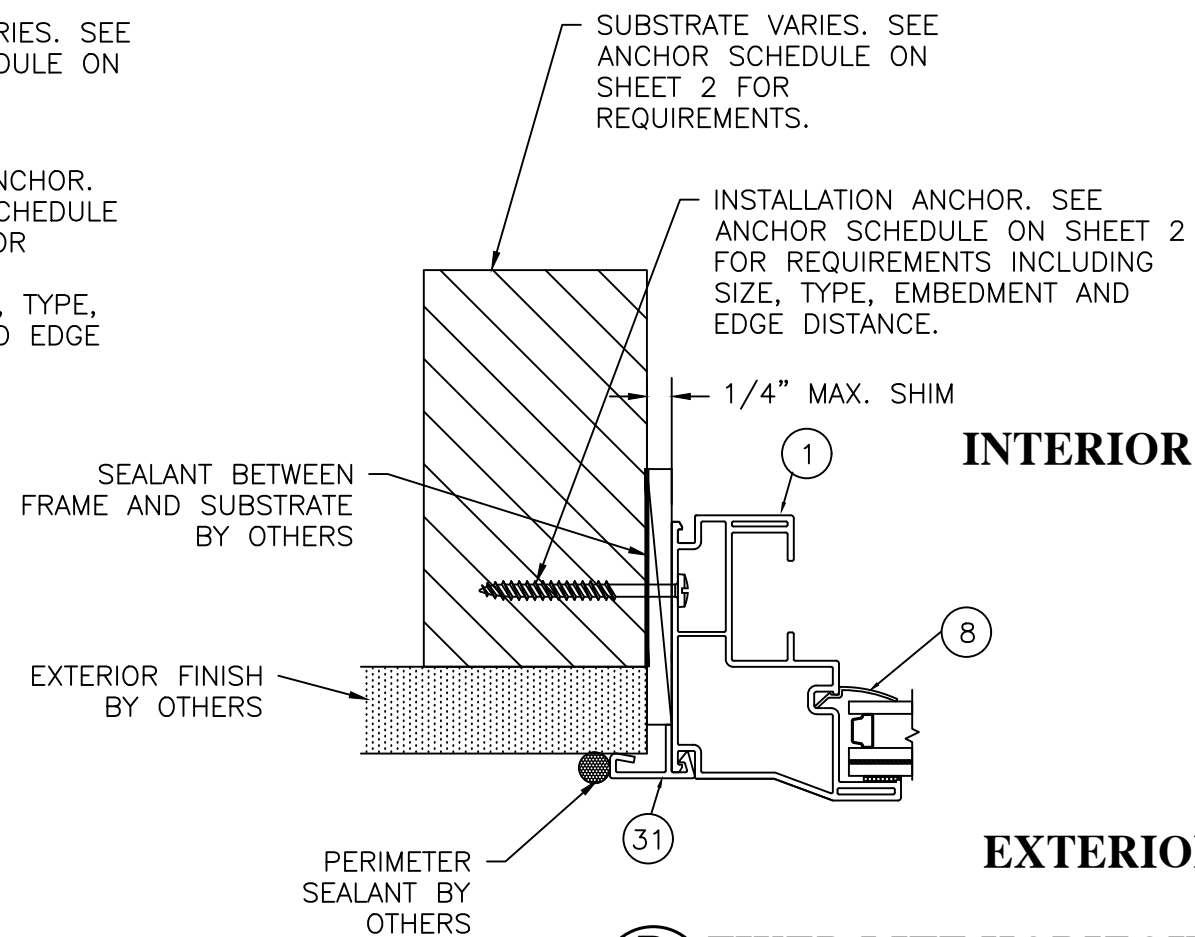
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Florida P.E. No. 49752



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INTERIOR



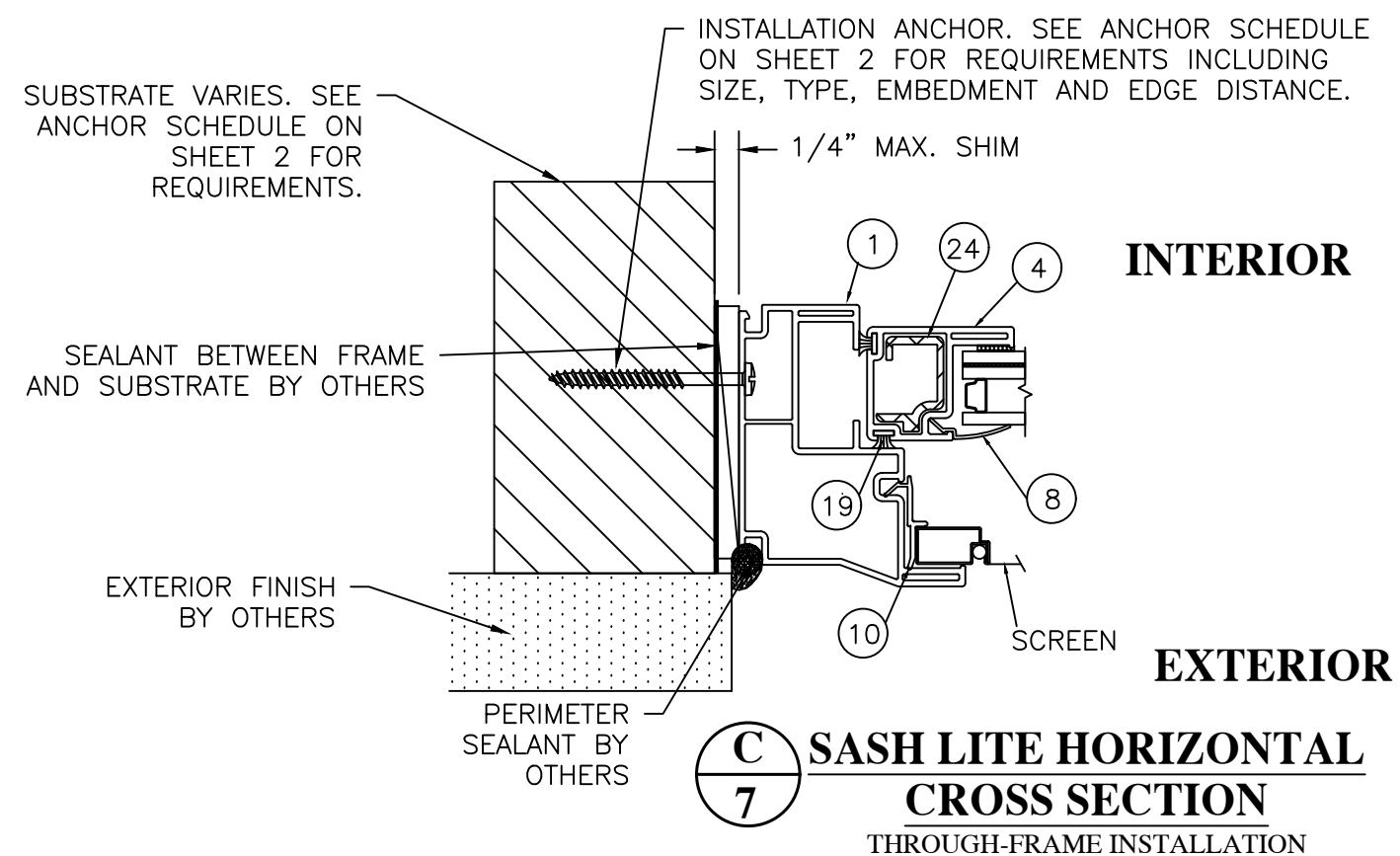
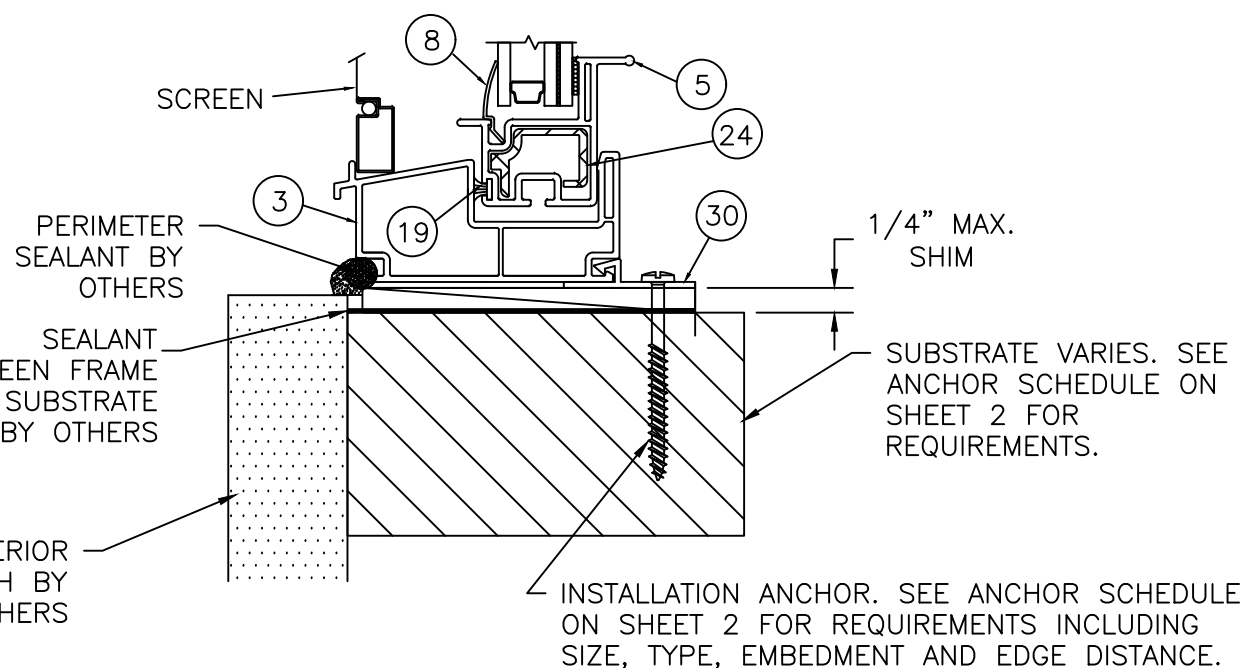
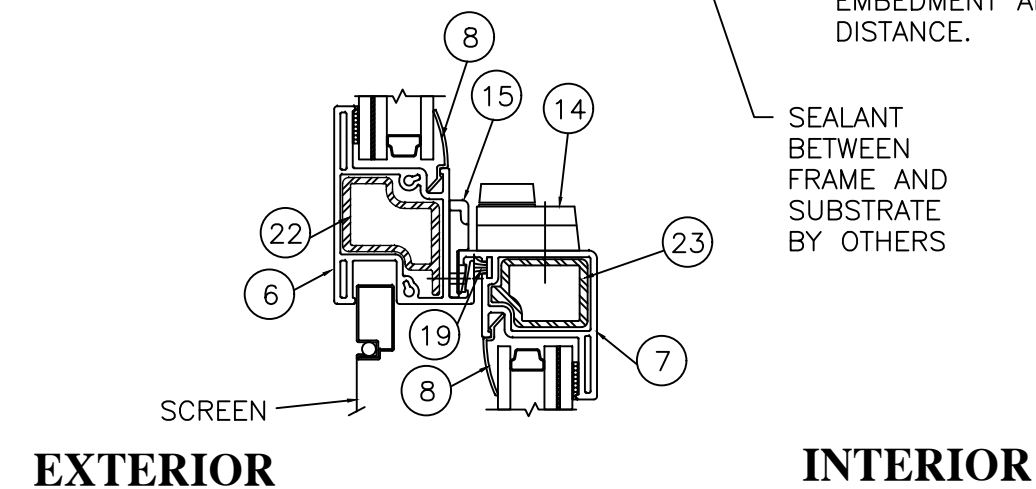
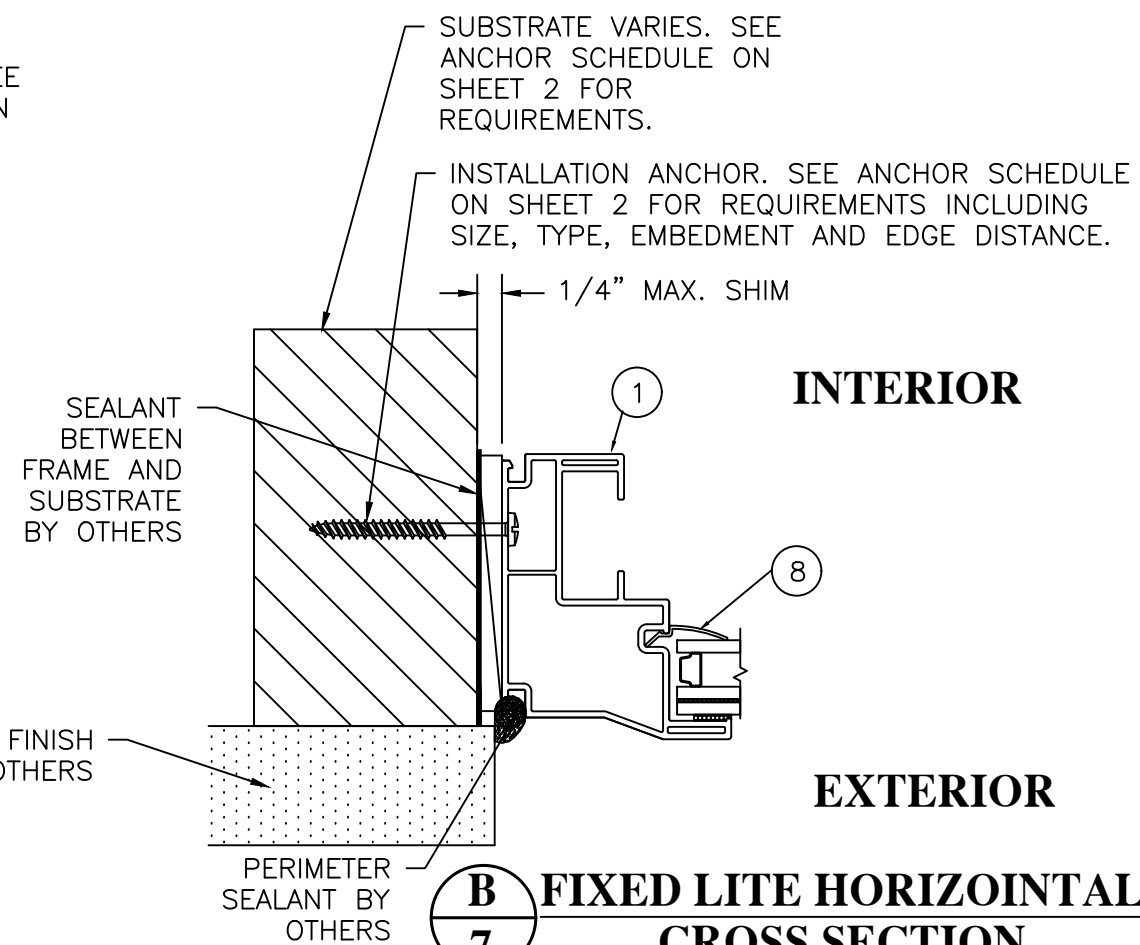
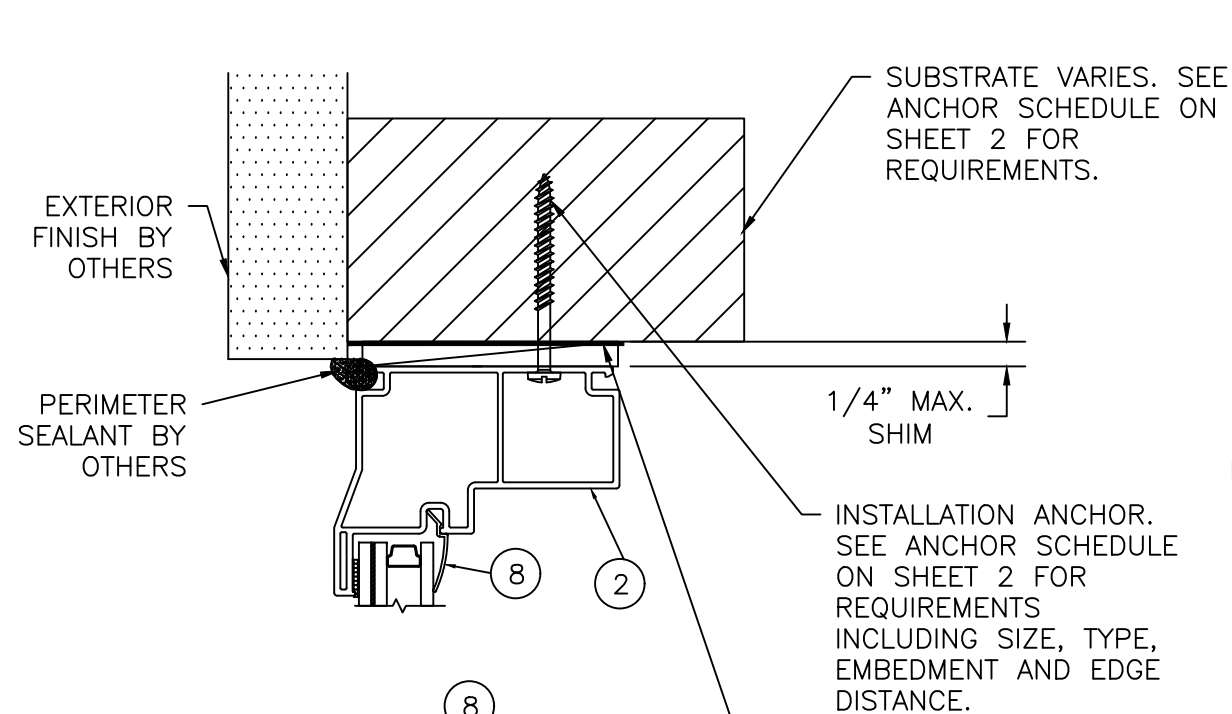
SUBSTRATE VARIES. SEE ANCHOR SCHEDULE ON SHEET 2 FOR REQUIREMENTS.
 SEALANT BETWEEN FRAME AND SUBSTRATE BY OTHERS
 EXTERIOR FINISH BY OTHERS
 PERIMETER SEALANT BY OTHERS
 SNAP-ON FLANGE
 INSTALLATION ANCHOR. SEE ANCHOR SCHEDULE ON SHEET 2 FOR REQUIREMENTS INCLUDING SIZE, TYPE, EMBEDMENT AND EDGE DISTANCE.
 1/4" MAX. SHIM
 1, 24, 4, 8, 19, 10, 31, SCREEN
 INTERIOR
 EXTERIOR

SASH LITE HORIZONTAL **CROSS SECTION** THROUGH-FRAME INSTALLATION SNAP-ON FLANGE

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



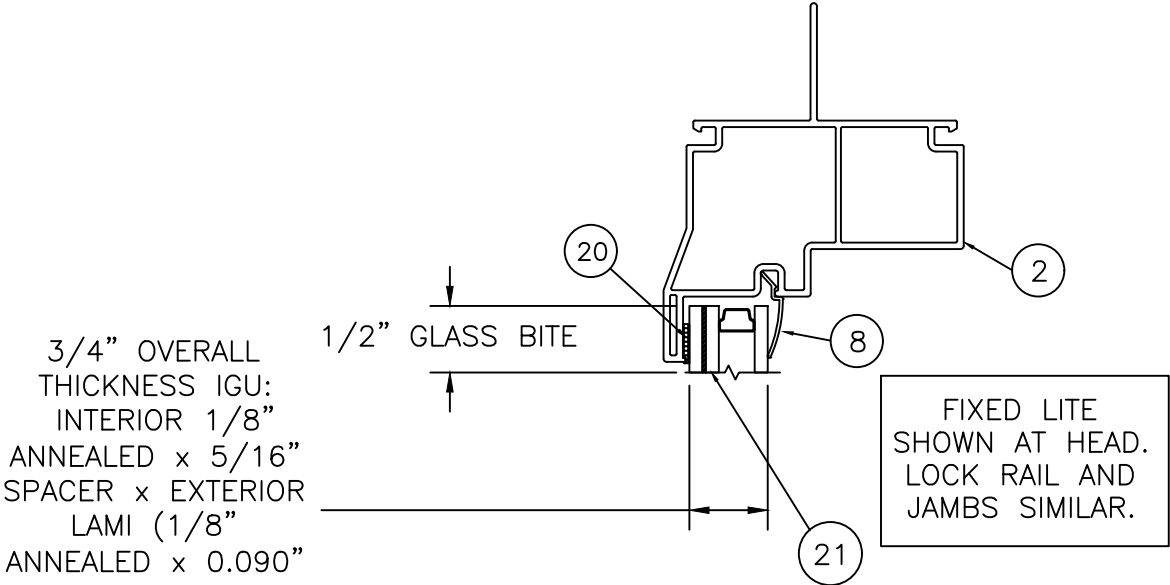
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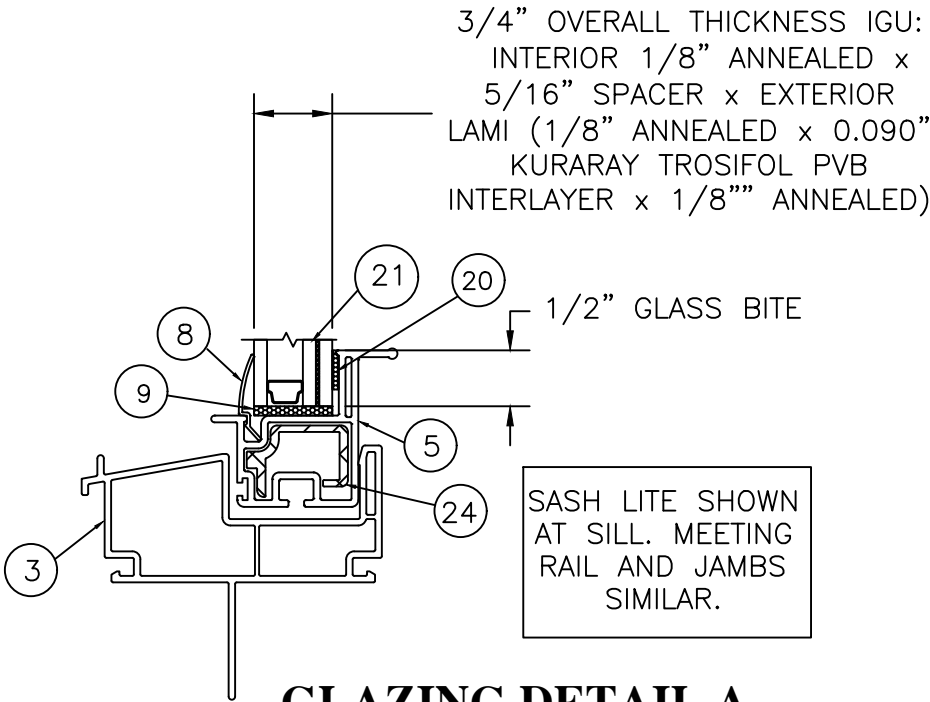
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Florida P.E. No. 49752



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GLAZING DETAIL A



GLAZING DETAIL A

- 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.

BILL OF MATERIALS 9700 SERIES SH			
BOM NO.	PART NO.	DESCRIPTION	REMARKS
1	7867	JAMB	PVC
2	7868	HEAD	PVC
3	7869	SILL	PVC
4	7863	VENT STILE	PVC
5	7866	VENT RAIL	PVC
6	7864	FIXED INTERLOCK	PVC
7	7865	VENT INTERLOCK	PVC
8	6177	GLAZING BEAD	PVC
9	STGBLK	SETTING BLOCK	NOT SHOWN
10	7871	SCREEN LOCK	OPTIONAL
HARDWARE			
12	9208	BASE	NOT SHOWN
13	9202	LEVER	NOT SHOWN
14	SHLK	CAM	
15	SHLKKPR	KEEPER	
16	677204	CAM LOCK (OPTIONAL)	USED IN DP50 TEST
17	677133	KEEPER (OPTIONAL)	USED IN DP50 TEST
18	110-5/MRBLCK	MEETING RAIL BLOCK	Apply 7864 to 7988 T-Bar
WEATHERSTRIPPNG			
19		WEATHERSTRIP	.187 x .270 FIN PILE
GLAZING			
20		DOW 995 WET GLAZING COMPOUND	SILICONE
21	GLAZING DETAIL A	3/4" OVERLL THICKNESS LAMINATED IGU	
REINFORCEMENT			
22	7864.1	FIXED INTERLOCK, REINFORCING BAR	ALUMINUM 6063-T5
23	7865.1	OPERABLE INTERLOCK, REINFORCING BAR	ALUMINUM 6063-T5
24	7866.1	VENT RAILS, TOP AND BOTTOM, REINFORCING BAR	ALUMINUM 6063-T5
BALANCE AND TILT COMPONENTS			
25	700 SERIES	BALANCE (CONSTANT FORCE)	NOT SHOWN
26	728	PIVOT LOCK SHOE (1.292" x .562")	NOT SHOWN
27	275	PIVOT BAR	NOT SHOWN
28	9637	ANCHOR	NOT SHOWN
29	76800/76900	TILT LATCH ASSEMBLY	NOT SHOWN
INSTALLATION COMPONENTS			
30	6384	SILL CLIP	PVC
31	8864	SNAP-ON FLANGE	PVC

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TITLE:
SERIES 9700 VINYL SINGLE HUNG WINDOW
GLAZING DETAILS AND BOM

DRAWN BY: RJA

DATE: 3/27/2020

DRAWING NO: RWD0023

SHEET: 8 OF 8

PREPARED BY: AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RIAENGPE@GMAIL.COM

SCALE: N.T.S.

REV: A

8/4/26

DATE

DESCRIPTION

BY

REV

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SIGNED/SEALED: 8/4/26