

RENAISSANCE WINDOWS AND DOORS

SERIES 8500 VINYL FIXED WINDOW

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE 9TH EDITION (2026) FLORIDA BUILDING CODE. TESTING WAS CONDUCTED IN ACCORDANCE WITH AAMA/NWWDA 101/I.S.2-97 AND AAMA/WDMA/CSA 101/I.S.2/A440-05.
- THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NO.77856.01-801-44 AND 02-46046.01 AND ASSOCIATED LABORATORY DRAWINGS BY ARCHITECTURAL TESTING, INC.
- THIS PRODUCT EVALUATION DOCUMENT IS NOT FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 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.
- 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.
- WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST,THIS PRODUCT REQUIRES OPENING PROTECTION IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE USING AN APPROVED IMPACT PROTECTION DEVICE.
- 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.
- WINDOW FRAME MATERIAL: VINYL (PVC).
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300-24.
- DESIGNATION "O" STANDS FOR FIXED LITE.
- 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:

- 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.
- 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.
 - EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
 - MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
- SEE SHEETS 5 THROUGH 7 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- ANCHOR QUANTITIES AND SPACING / EMBEDMENT AND EDGE DISTANCE
 - 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.
 - END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE ELEVATIONS ON SHEETS 3 AND 4 ARE ACCEPTABLE.
 - FOR WINDOW SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.
 - ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON THE LOWER OF ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.
 - SEE EMBEDMENT AND EDGE DISTANCE DESCRIPTION ON SHEET 2.
- 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.
- FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
- 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.
- 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	ELEVATION	GLAZING DETAIL (SEE SHEET 8)	DESIGN PRESSURE (PSF)	IMPACT RATING
NOMINAL 48" x 96" (47-5/8" x 95-5/8")	SHEET 4 (NOTE 1)	A	+/- 47	NONE SEE NOTE 6
NOMINAL 48" x 93" (47-5/8" x 92-5/8")	SHEET 4 (NOTE 2)	A	+/- 50	
NOMINAL 60" x 78" (59-3/4" x 77-3/4")	SHEET 3 (NOTE 1)	B	+/- 29.7	
NOMINAL 60" x 78" (59-3/4" x 77-3/4")	SHEET 3 (NOTE 3)	A	+/-50	

NOTES:
1) AS-TESTED WINDOW SIZE AND GLAZING. DESIGN PRESSURES LIMITED BY GLAZING DETAIL.
2) REDUCED HEIGHT WINDOW SIZE TO OBTAIN TESTED DESIGN PRESSURE WITH TESTED GLAZING. ANCHOR QUANTITIES SHOWN ON SHEET 4 WILL BE MAINTAINED.
3) AS-TESTED WINDOW SIZE WITH ENHANCED GLAZING (UPSIZED FROM TEST) TO OBTAIN TESTED DESIGN PRESSURE.

PROJECT # ACE-2025-127				RJA	BY
			8/4/26	DATE	
			UPDATE TO THE 9TH EDITION (2026) FBC	DESCRIPTION	
RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218	TITLE: SERIES 8500 VINYL FIXED WINDOW GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS	DRAWN BY: RJA	DATE: 12/5/19	DRAWING NO: RWD0002	SHEET: 1 OF 8
		SCALE: N.T.S.		REV: A	
		PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM			

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SIGNED/SEALED: 8/4/26

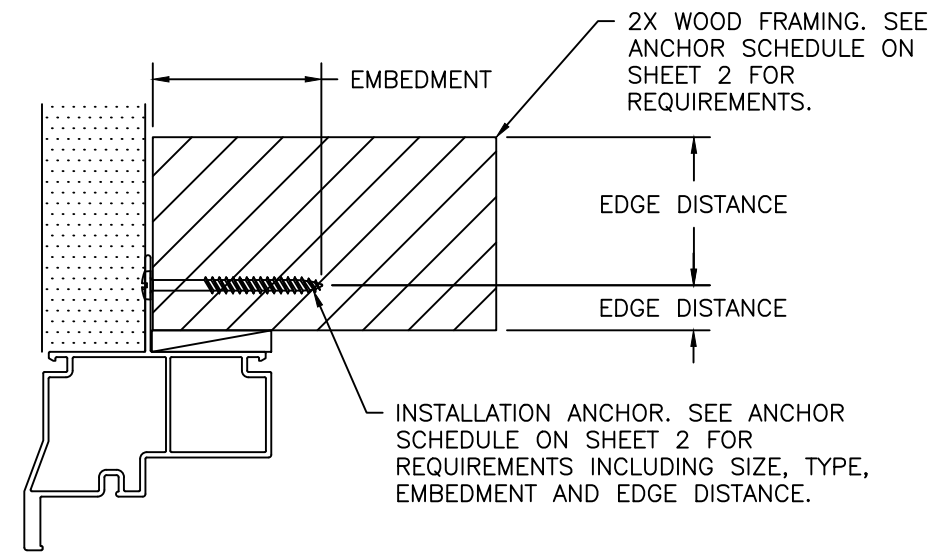
INSTALLATION ANCHOR SCHEDULE									
INSTALLATION TYPE	SECTION VIEW	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	MIN. EMBEDMENT (IN)	MIN. EDGE DISTANCE (IN)	MIN. SPACING (IN) BETWEEN FRAME ANCHORS	ANCHOR CAPACITIES BASED ON
THROUGH FRAME ANCHOR	SECTION A, B & C (SHEET 6)	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
		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 (SHEET 7)	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 (SHEET 5)	PAN WASHER HEAD (0.352" MIN. HEAD DIAMETER)	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:

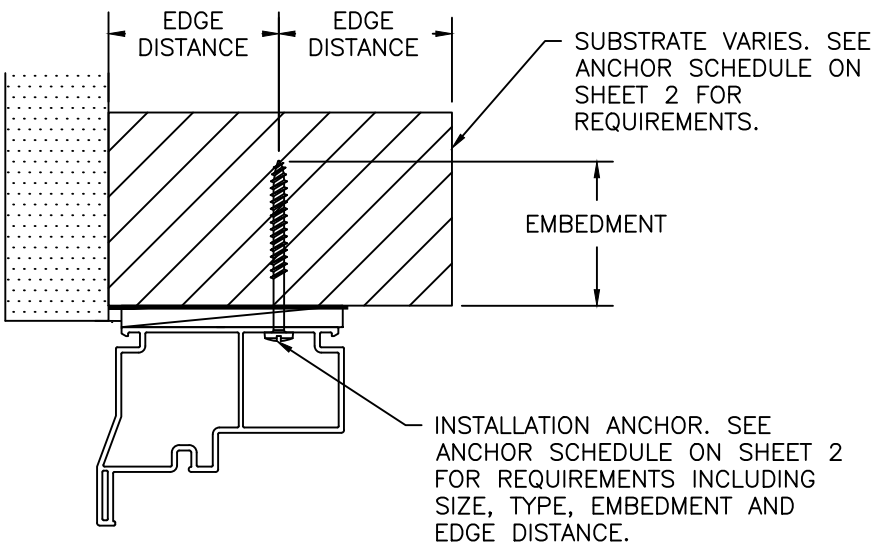
1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.

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).

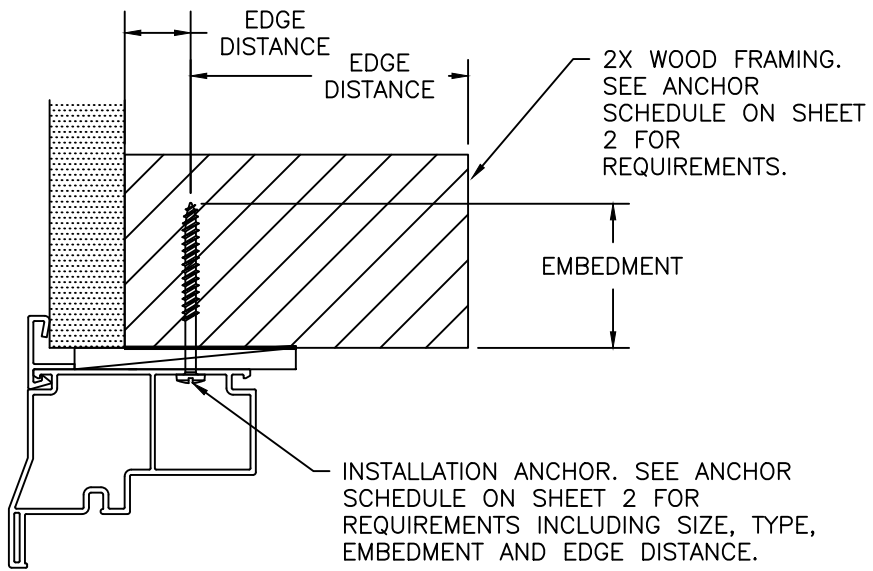
3) FOR WOOD OR TAPPING SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.082" PILOT HOLE (DRILL SIZE 45).



EMBEDMENT AND EDGE DISTANCE
NAILING FIN FRAME INSTALLATION



EMBEDMENT AND EDGE DISTANCE
THROUGH-FRAME INSTALLATION

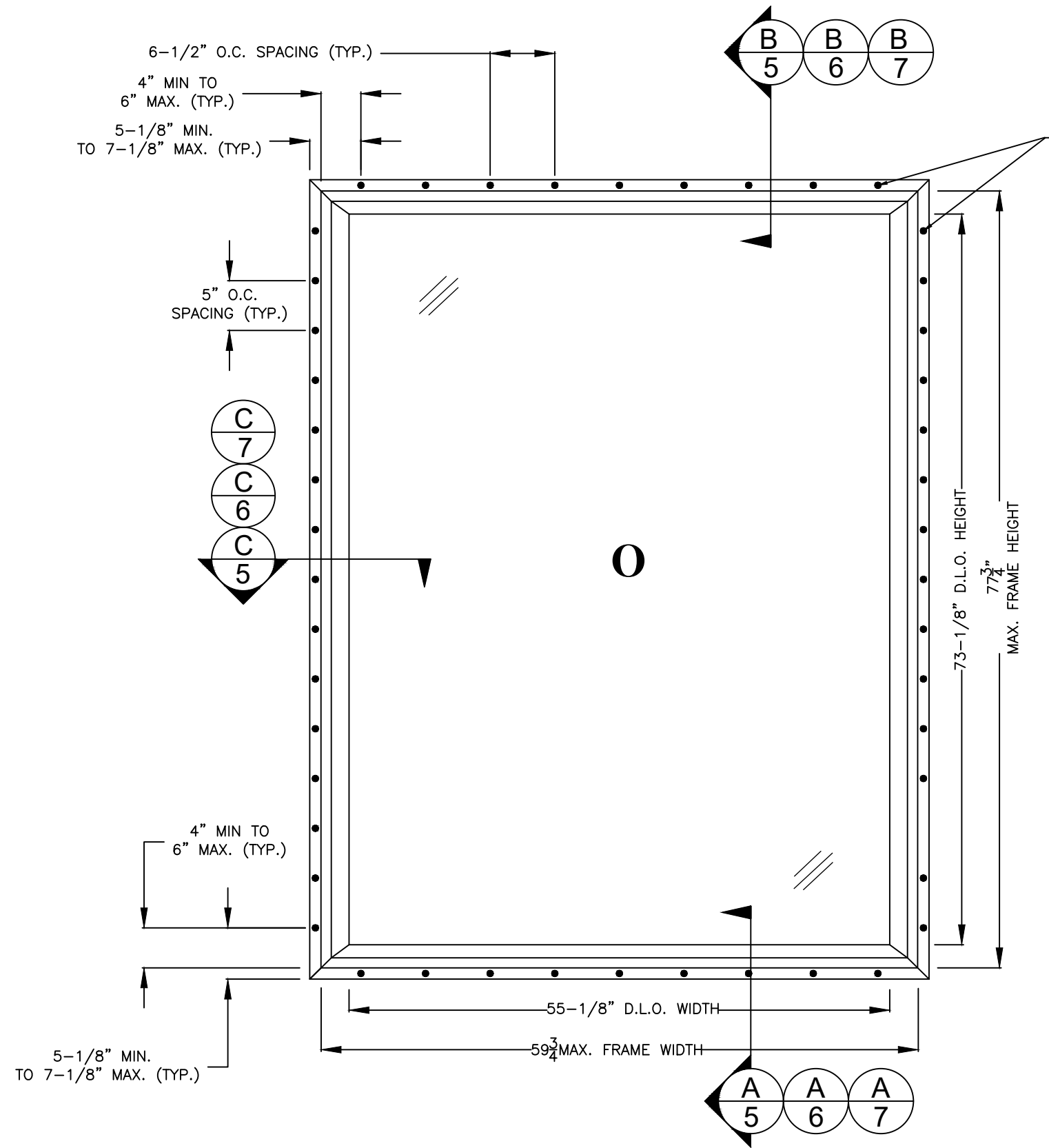


EMBEDMENT AND EDGE DISTANCE
SNAP-ON FLANGE THROUGH-FRAME INSTALLATION

RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218				PROJECT # ACE-2025-127			
TITLE: SERIES 8500 VINYL FIXED WINDOW ANCHOR SCHEDULE - EMBEDMENT & EDGE DISTANCE							
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: 12/5/19			
SCALE: N.T.S.		DRAWING NO: RWD0002					
REV: A		SHEET: 2 OF 8		A		UPDATE TO THE 9TH EDITION (2026) FBC	
				REV		DESCRIPTION DATE BY	

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NAILING FIN INSTALLATION ANCHOR SHOWN. THRU-FRAME AND SNAP-ON FLANGE THRU-FRAME INSTALLATION ANCHOR QUANTITY AND SPACING SAME. SEE ANCHOR SCHEDULE ON SHEET 2.

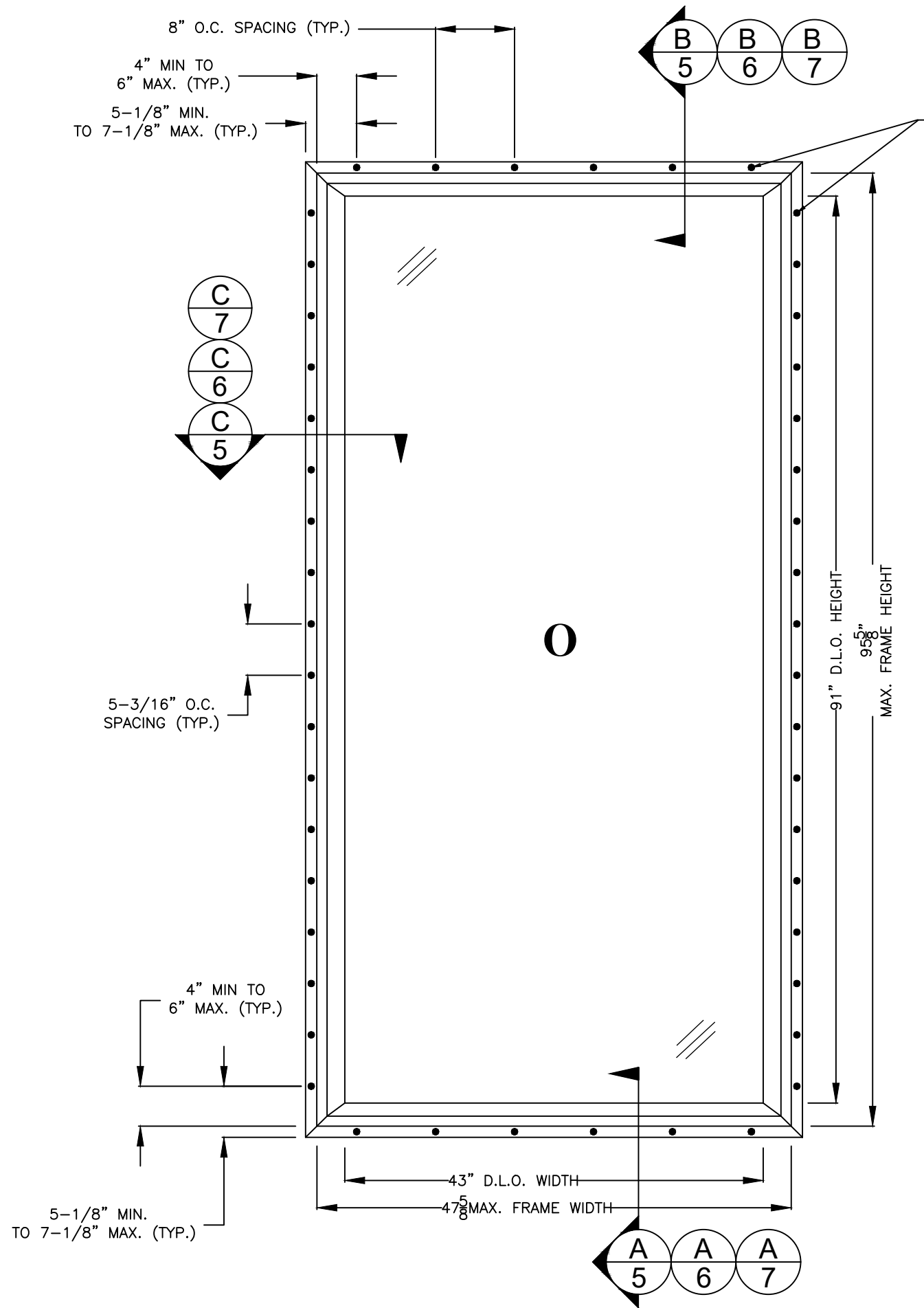
SERIES 8500 VINYL FIXED WINDOW
EXTERIOR VIEW (60" X 78" NOMINAL SIZE SHOWN)

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SIGNED/SEALED: 8/4/26

RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218	PROJECT # ACE-2025-127			
TITLE: SERIES 8500 VINYL FIXED WINDOW NOMINAL 60" x 78" WINDOW ELEVATION & ANCHORING LAYOUT	DRAWN BY: RJA		DATE: 12/5/19	
	SCALE: N.T.S.		DRAWING NO: RWD0002	
	REV: A		SHEET: 3 OF 8	
PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM	UPDATE TO THE 9TH EDITION (2026) FBC		8/4/26	RJA
	DESCRIPTION		DATE	BY
	REV			



NAILING FIN INSTALLATION ANCHOR SHOWN. THRU-FRAME AND SNAP-ON FLANGE THRU-FRAME INSTALLATION ANCHOR QUANTITY AND SPACING SAME. SEE ANCHOR SCHEDULE ON SHEET 2.

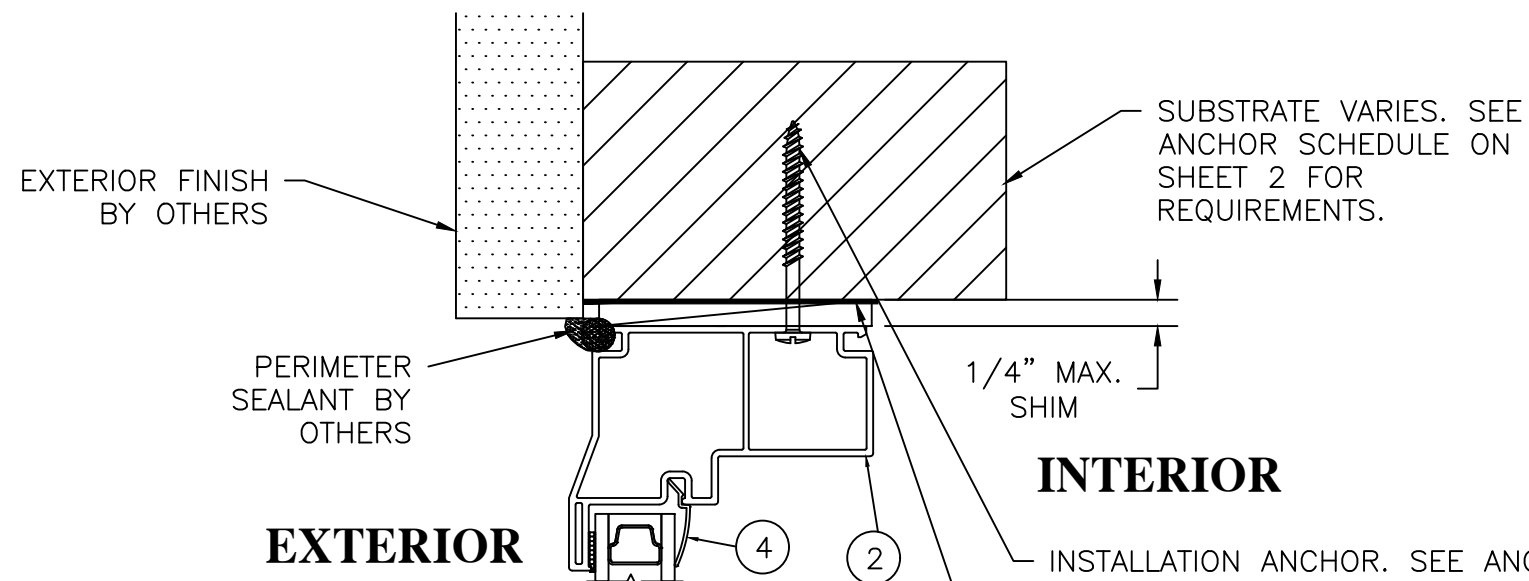
SERIES 8500 VINYL FIXED WINDOW
EXTERIOR VIEW (48" X 96" NOMINAL SIZE SHOWN)

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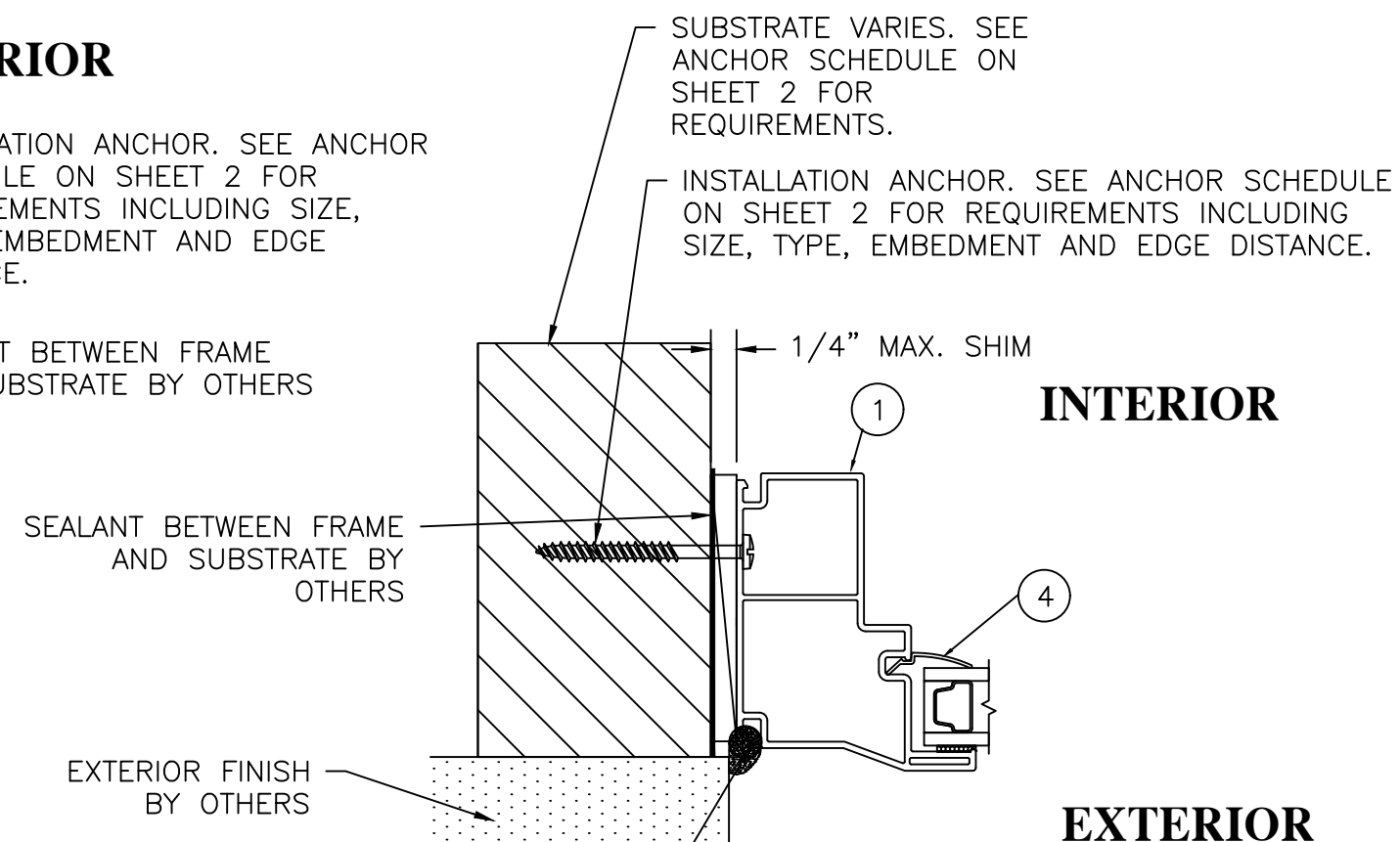


SIGNED/SEALED: 8/4/26

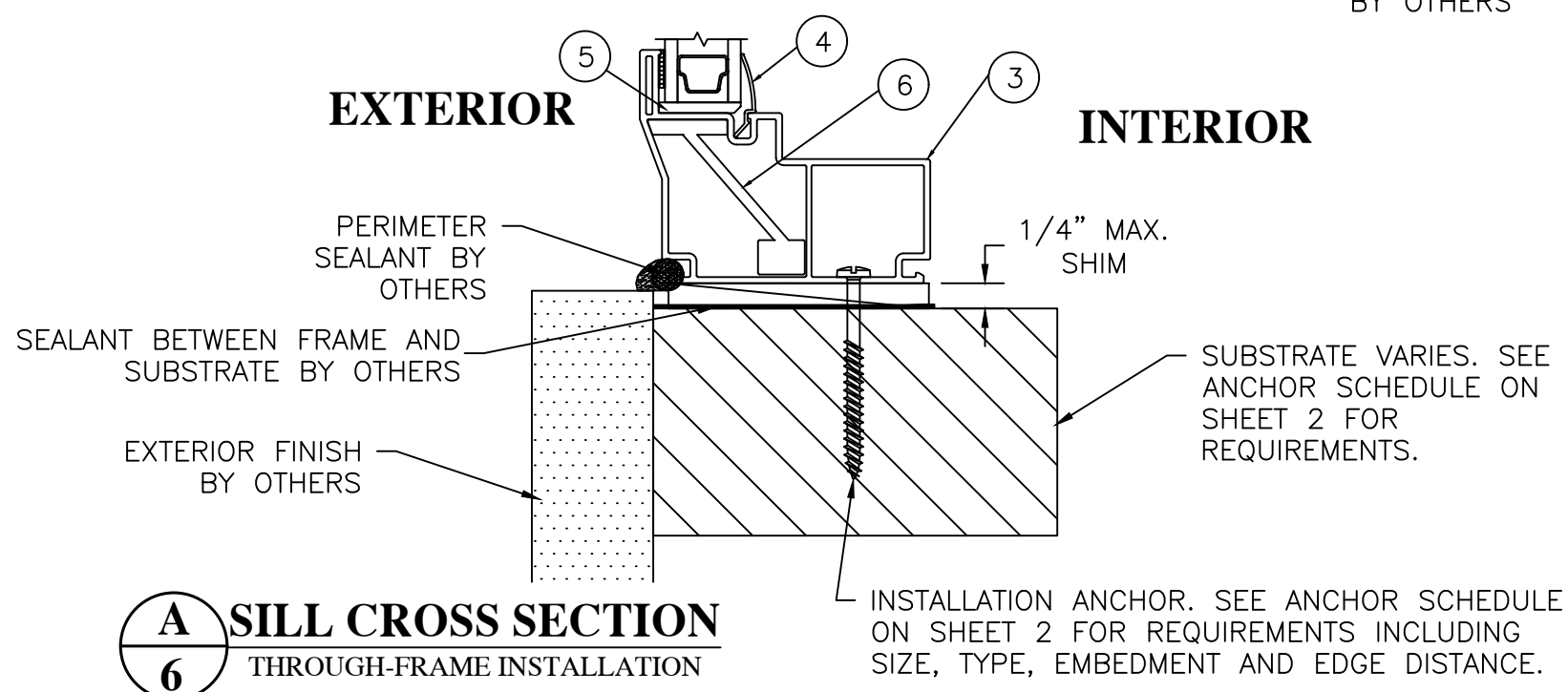
RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218	PROJECT # ACE-2025-127			
TITLE: SERIES 8500 VINYL FIXED WINDOW NOMINAL 48" x 96" WINDOW ELEVATION & ANCHORING LAYOUT	DRAWN BY: RJA		DATE: 12/5/19	
	SCALE: N.T.S.		DRAWING NO: RWD0002	
PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM	REV: A		SHEET: 4 OF 8	
	DESCRIPTION		REV	BY
UPDATE TO THE 9TH EDITION (2026) FBC		A	8/4/26	RJA



B HEAD CROSS SECTION 6 THROUGH-FRAME INSTALLATION



C JAMB CROSS SECTION 6 THROUGH-FRAME INSTALLATION



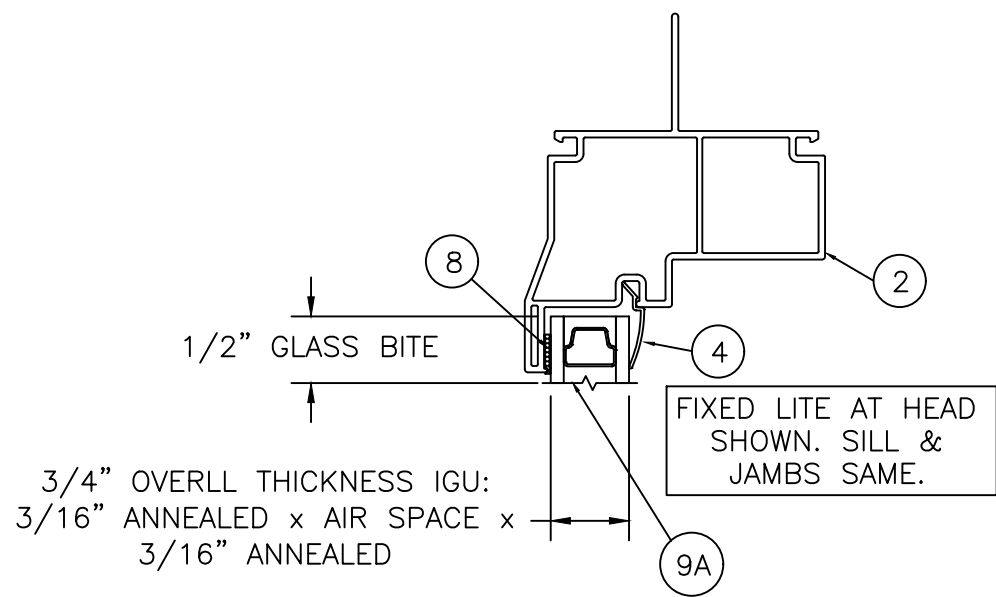
A SILL CROSS SECTION

6 THROUGH-FRAME INSTALLATION

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GLAZING DETAIL A

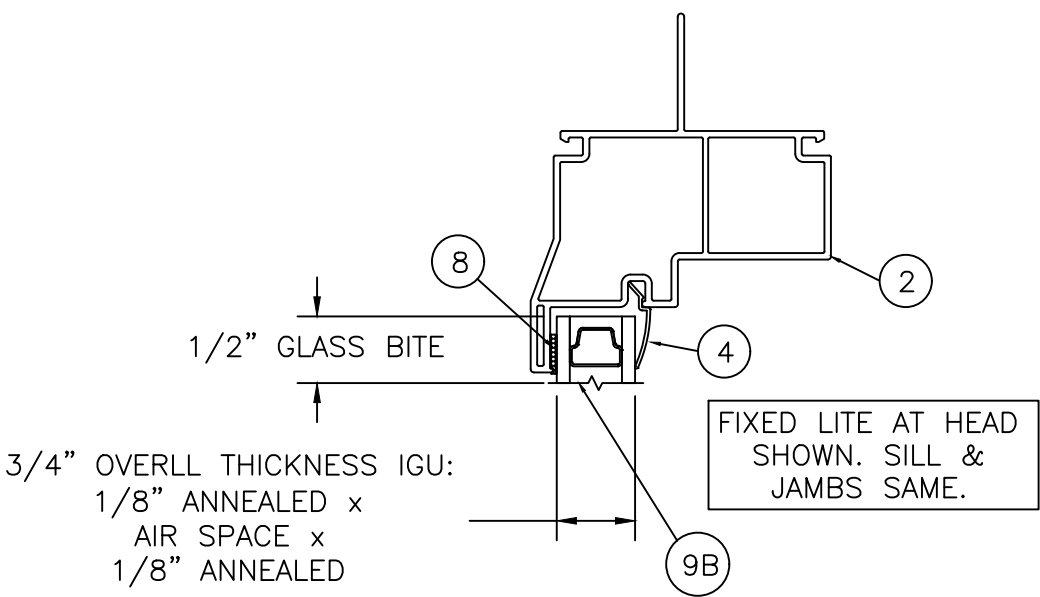
NOTES:

- 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.
- 2. AS-TESTED IGU SYSTEM SHOWN. OTHER SUBSTITUTES ARE ALLOW WHILE MAINTAINING INDIVIDUAL LITE THICKNESS AND TEMPER. SEE SHEET 1 FOR DETAILS RELATED TO WINDOW SIZE / GLAZING DETAIL / DESIGN PRESSURE.

BOM NO.	PART NO.	DESCRIPTION	REMARKS
1	7868	JAMB	PVC
2	7868	HEAD	PVC
3	7868	SILL	PVC
4	6177	GLAZING BEAD	PVC
5	6555	SETTING BLOCK	NEOPRENE
6		REINFORCEMENT	SEE NOTE 1
7	8461	SNAP-ON FLANGE	PVC
	GLAZING		
8		WET GLAZING COMPOUND	SILICONE
9A	GLAZING DETAIL A	3/4" OVERLL THICKNESS IGU 3/16" ANNEALED X AIR SPACE X 3/16" ANNEALED	
9B	GLAZING DETAIL B	3/4" OVERLL THICKNESS IGU 1/8" ANNEALED X AIR SPACE X 1/8" ANNEALED	

NOTES:

1) ITEM NO. 6 REINFORCEMENT ONLY REQUIRED ON WINDOWS EXCEEDING 77-3/4" IN HEIGHT.



GLAZING DETAIL B

PROJECT # ACE-2025-127					
RENAISSANCE WINDOWS AND DOORS 13340 INTERNATIONAL PARKWAY JACKSONVILLE, FL 32218	SERIES 8500 VINYL FIXED WINDOW GLAZING DETAILS AND NOTES / BILL OF MATERIALS	DATE: 12/5/19	DRAWING NO: RWD0002	SHEET: 8 OF 8	BY: RJA
TITLE: GLAZING DETAILS AND NOTES / BILL OF MATERIALS	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	SCALE: N.T.S.	REV: A	DESCRIPTION
PROJECT # ACE-2025-127	UPDATE TO THE 9TH EDITION (2026) FBC	A	8/4/26	DATE	BY

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