

EASTERN ARCHITECTURAL SYSTEMS

SERIES 142 FIXED WINDOW, IMPACT, NON-HVHZ INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORTS BY ELEMENT MATERIALS TECHNOLOGY; TEST REPORT NO. ESP 2088W, ESP 2088W-1, ESP 2088W-2 AND ESP 2088W-3. PERFORMANCE STANDARDS USED IN TESTING ARE:

1.1. AAMA/WDMA/CSA 101/I.S.2/A440-05

1.2. AAMA 506-08

1.3. ASTM E1886-05

1.4. ASTM E1996-06
2. THIS PRODUCT CANNOT BE USED IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
3. 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.
4. 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.
5. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST,THIS PRODUCT DOES NOT REQUIRE OPENING PROTECTION.
6. 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.
7. WINDOW FRAME MATERIAL: VINYL (PVC).
8. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.
9. DESIGNATION "O" STANDS FOR FIXED LITE.
10. THESE DRAWINGS CERTIFY THE WINDOW INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED WINDOW IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER AND/OR THE INSTALLER.
11. GEOMETRIC SHAPES ARE ALSO APPROVED. APPROVED GEOMETRIC SHAPES DIMENSIONS SHALL NOT EXCEED INSCRIBED DIMENSIONS OF APPROVED RECTANGULAR ASSEMBLIES SHOWN IN SHEETS 3 AND 4.

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4	50" x 63" WINDOW ELEVATION & ANCHORING LAYOUT
5	CROSS SECTIONS - FIN INSTALLATION
6	CROSS SECTIONS - EQUAL LEG INSTALLATION

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 AND 6 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.
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.

PERFORMANCE RATING			
MAXIMUM WINDOW SIZE	GLAZING DETAIL (SEE SHEET 2)	DESIGN PRESSURE (PSF)	IMPACT RATING
50" x 63"	A	+/- 55	WIND ZONE 4 MISSILE LEVEL D
64" X 84"	B	+/- 50	

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16341 DOMESTIC AVENUE
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SERIES 142 FIXED WINDOW, IMPACT, NON-HVHZ
INSTALLATION ANCHORAGE DETAILS

DATE	BY	REVISION DESCRIPTION	NO.
06/05/2024	DWN BY: RJA	CHK BY: n/a	SCALE: NONE

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PROJECT#:

ACE-2024-119

DWG/REV:

EAS2302, Rev 0

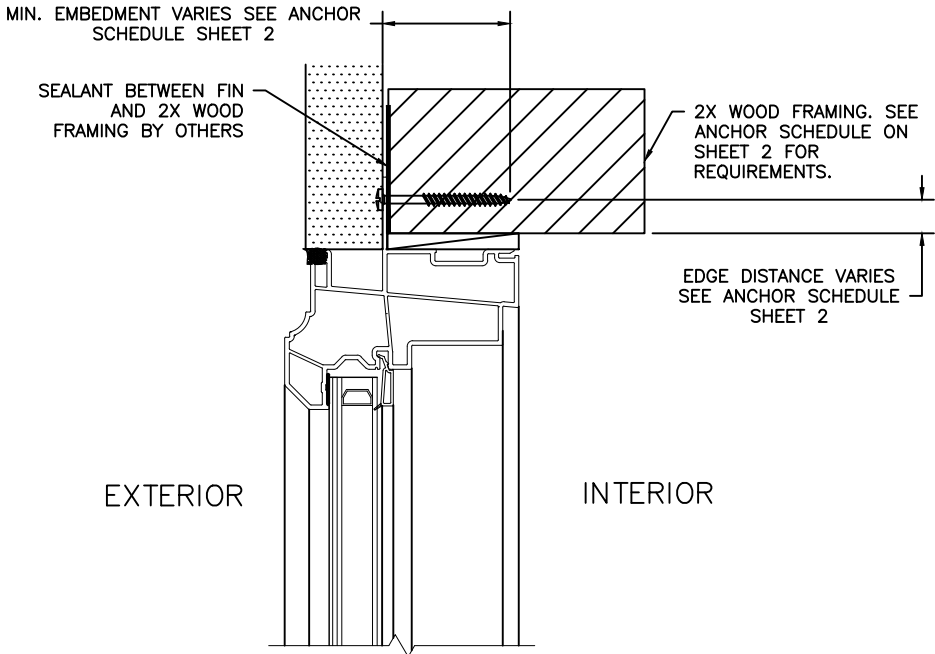
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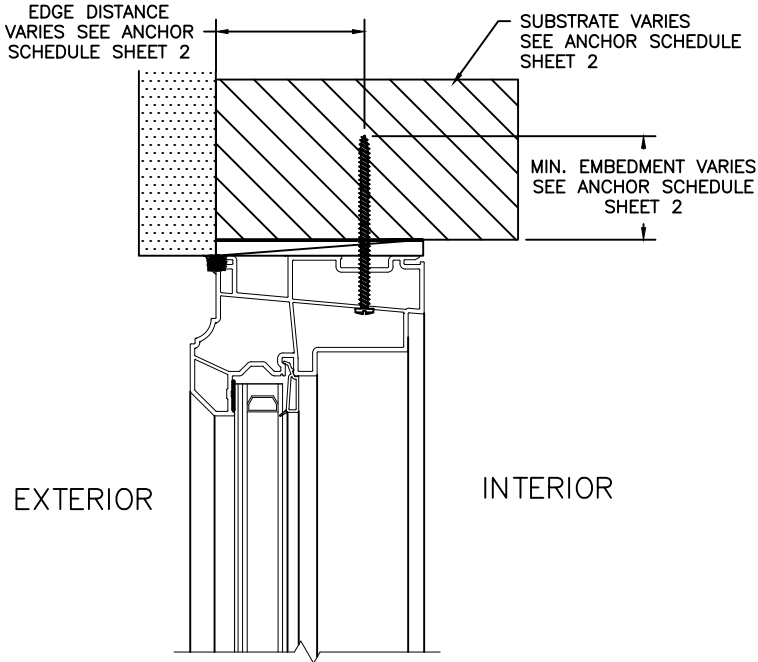
INSTALLATION ANCHOR SCHEDULE							
SUBSTRATE	INSTALLATION TYPE	SCREW HEAD TYPE	SCREW SIZE	MANUFACTURER AND/OR SPECIFICATION	EMBEDMENT (IN) ^{(2) (3)}	EDGE DISTANCE (IN) ^{(2) (3)}	ANCHOR CAPACITIES BASED ON
CONCRETE	EQUAL LEG THRU FRAME ANCHORAGE	PAN HEAD	3/16"	ITW TAPCONS ⁽¹⁾	1-1/2"	1-1/8"	MIN. 2500 PSI CONCRETE
MASONRY (BLOCK/CMU)		PAN HEAD	3/16"	ITW TAPCONS ⁽¹⁾	1"	2"	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT, DENSITY > 117 PCF
WOOD		PAN HEAD	NO. 10	ANSI B18.6.1 (WOOD SCREW) ASME B18.6.4 (TAPPING SCREW)	1-3/8"	3/4"	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42
METAL		PAN HEAD	No. 10	ASME B18.6.4 (TAPPING SCREW)	FULL THICKNESS OF METAL. AT LEAST THREE THREAD DEPTH PAST INTERIOR SURFACE.	3/8"	STEEL STUD, 18 GA, 33 KSI ALUMINUM 6063-T5, 1/8" STEEL A-36, 1/8"
WOOD	NAILING FIN FRAME ANCHORAGE	PAN HEAD	NO. 10	ANSI B18.6.1 (WOOD SCREW) ASME B18.6.4 (TAPPING SCREW)	1-1/2"	3/8"	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42

NOTES:
1) ITW (ADVANCED THREADFORM TECHNOLOGY) TAPCONS WILL BE USED FOR CONCRETE/MASONRY INSTALLATION.
2) FOR WOOD SUBSTRATE INSTALLATION: IF SPLITTING IS A CONCERN, USE PILOT HOLES FOR NO. 10 WOOD SCREWS AS FOLLOWS. IN THRU-FRAME INSTALLATION, DRILL 0.112" (34 DRILL SIZE) PILOT HOLE. IN NAILING FIN INSTALLATION, DRILL 0.090" (43 DRILL SIZE) PILOT HOLE.
3) FOR WOOD SUBSTRATE INSTALLATION: IF SPLITTING IS A CONCERN, USE PILOT HOLES FOR NO. 10 TAPPING SCREWS AS FOLLOWS. IN THRU-FRAME INSTALLATION, DRILL 0.121" (31 DRILL SIZE) PILOT HOLE. IN NAILING FIN INSTALLATION, DRILL 0.097" (41 DRILL SIZE) PILOT HOLE.
4) FOR CONCRETE/CMU SUBSTRATES, 1X WOOD BUCK IS OPTIONAL.

ANCHOR INSTALLATION EMBEDMENT AND EDGE DISTANCE

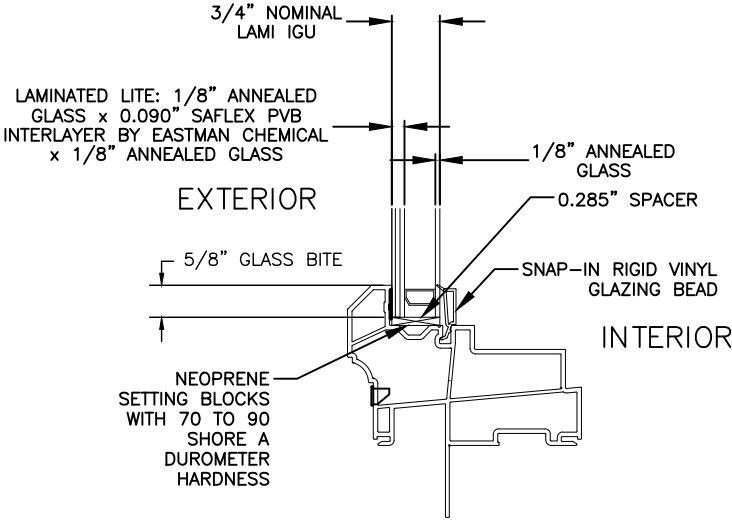


EMBEDMENT AND EDGE DISTANCE
NAIL FIN FRAME INSTALLATION

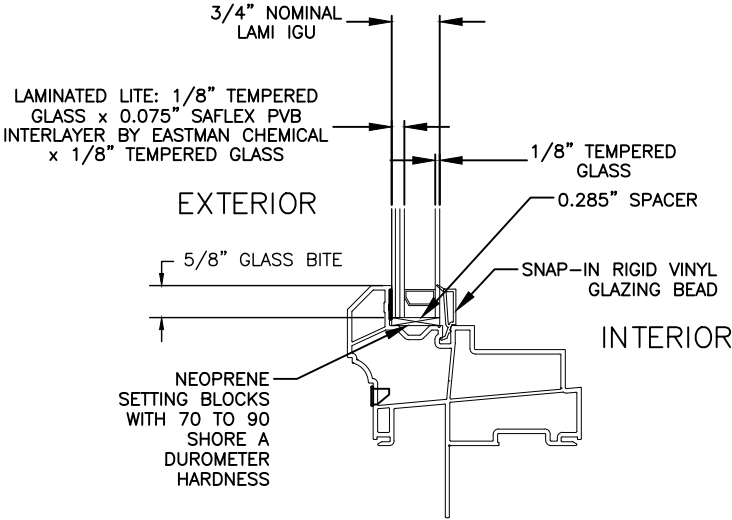


EMBEDMENT AND EDGE DISTANCE
EQUAL LEG THROUGH-FRAME INSTALLATION

GLAZING DETAILS



GLAZING DETAIL A
LAMINATED IGU
INTERIOR GLAZED WITH SIKAFLEX 552
(FOR WINDOW SIZES UP TO 50" X 63")



GLAZING DETAIL B
LAMINATED IGU
INTERIOR GLAZED WITH SIKAFLEX 552
(FOR WINDOW SIZES UP TO 64" X 84")

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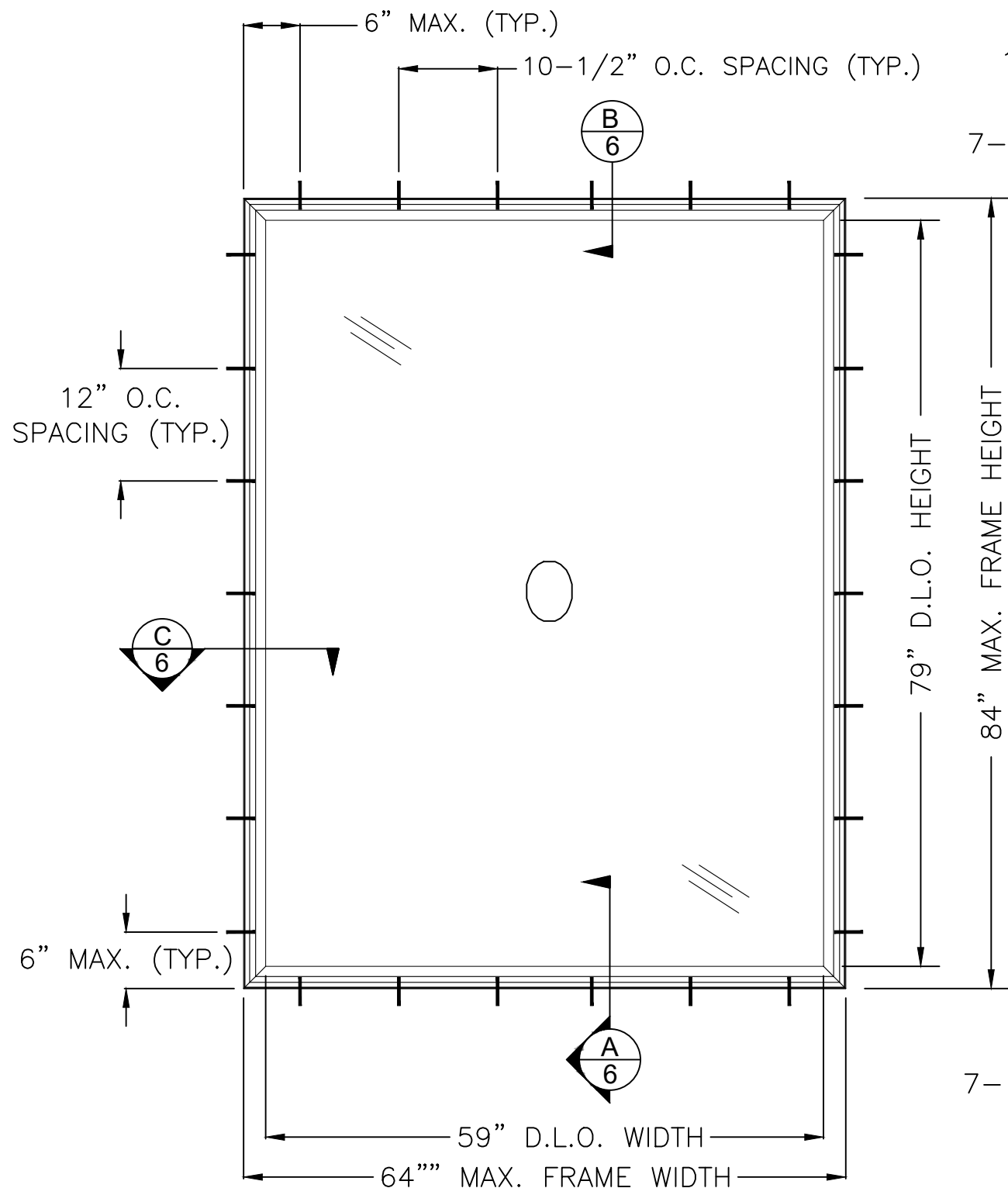
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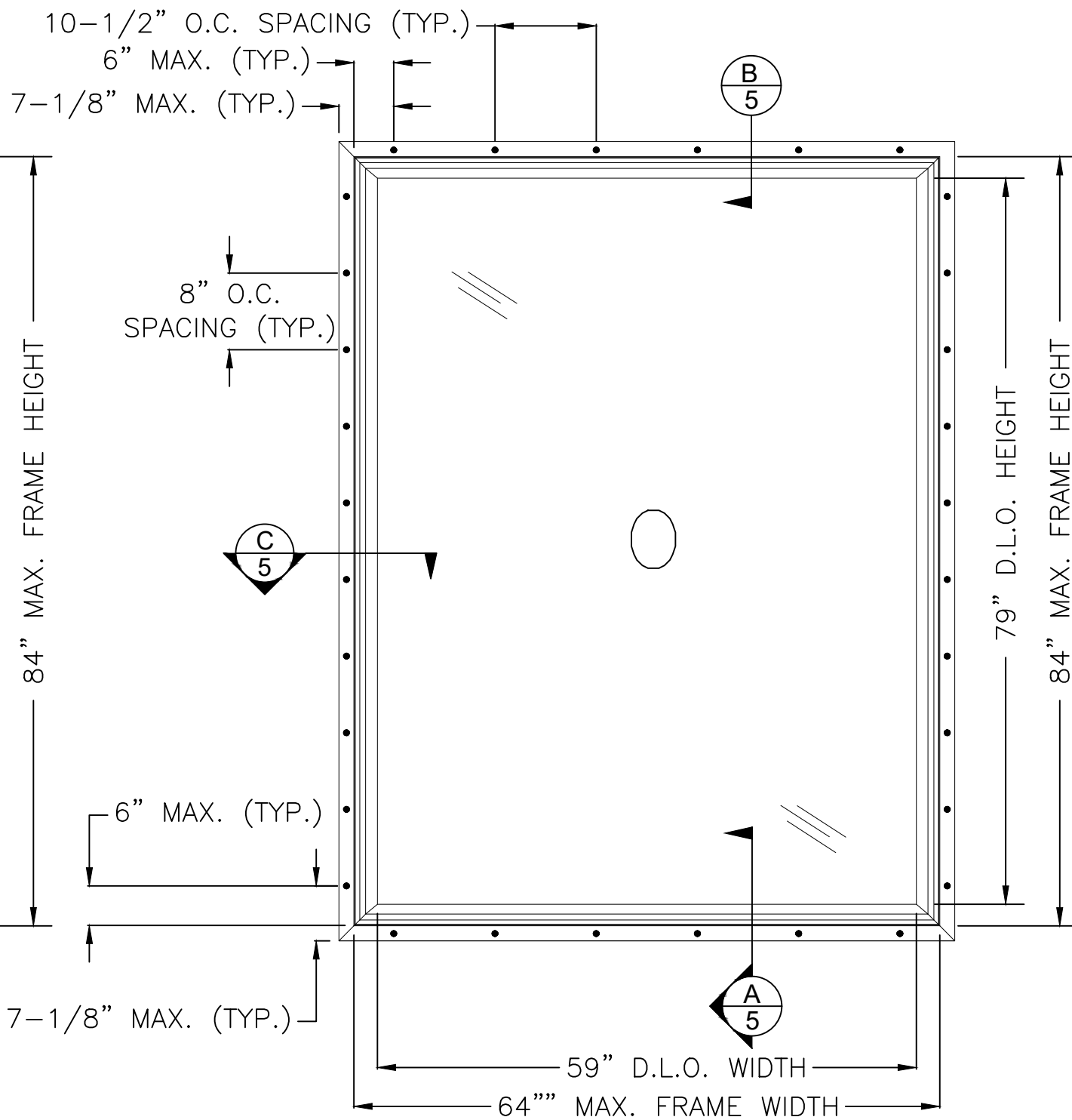


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SHT:	2 of 6



SERIES 142 VINYL FIXED WINDOW
EQUAL LEG FRAME – THROUGH FRAME ANCHOR INSTALLATION SHOWN
EXTERIOR VIEW (64" X 84" NOMINAL SIZE SHOWN)



SERIES 142 VINYL FIXED WINDOW
FIN FRAME – NAILING FIN ANCHOR INSTALLATION SHOWN
EXTERIOR VIEW (64" X 84" NOMINAL SIZE SHOWN)

ANCHOR LOCATIONS HAVE A +/-1" TOLERANCE

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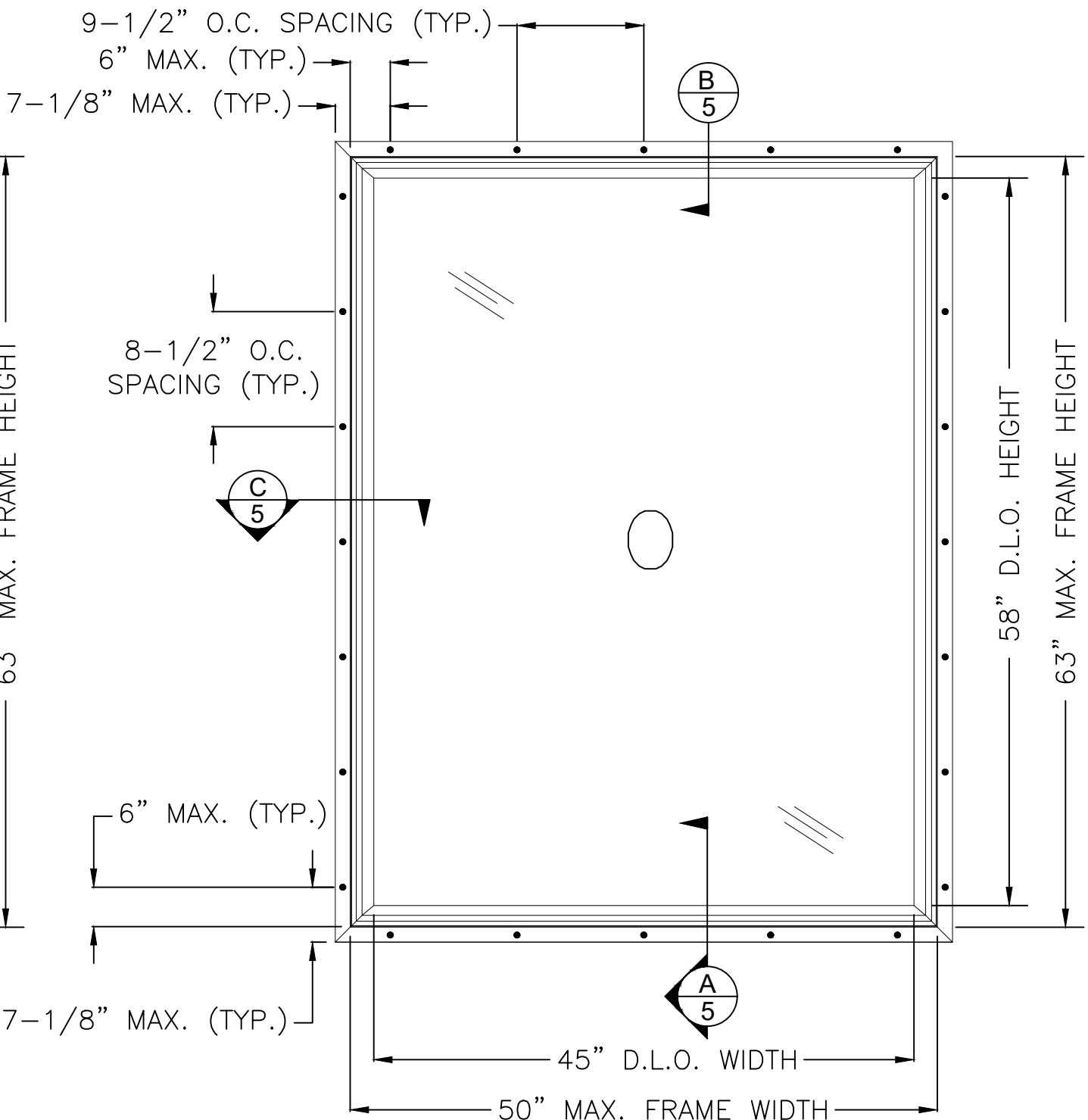
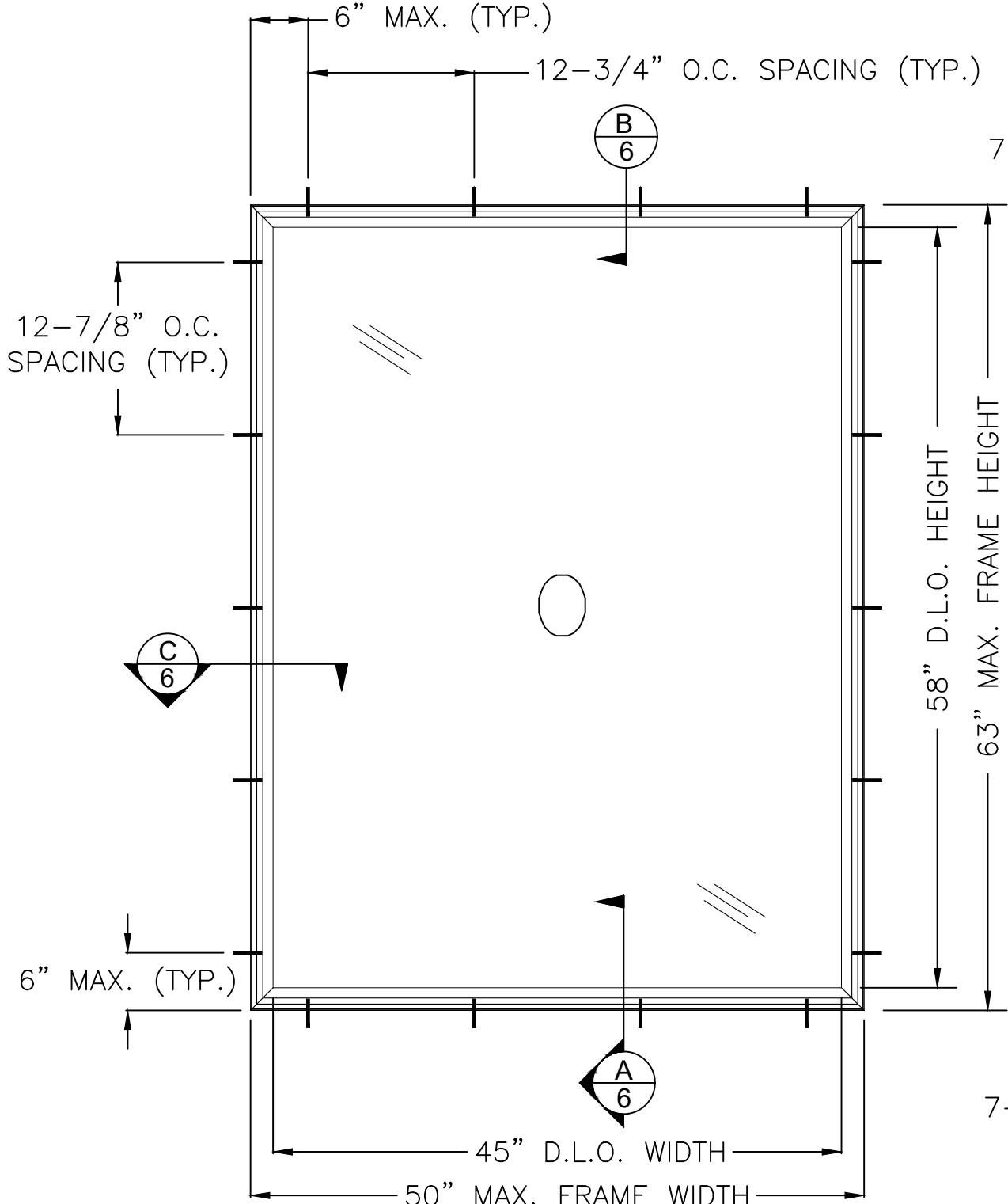
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SERIES 142 VINYL FIXED WINDOW
EQUAL LEG FRAME – THROUGH FRAME ANCHOR INSTALLATION SHOWN
EXTERIOR VIEW (50" X 63" NOMINAL SIZE SHOWN)

SERIES 142 VINYL FIXED WINDOW
FIN FRAME – NAILING FIN ANCHOR INSTALLATION SHOWN
EXTERIOR VIEW (50" X 63" NOMINAL SIZE SHOWN)

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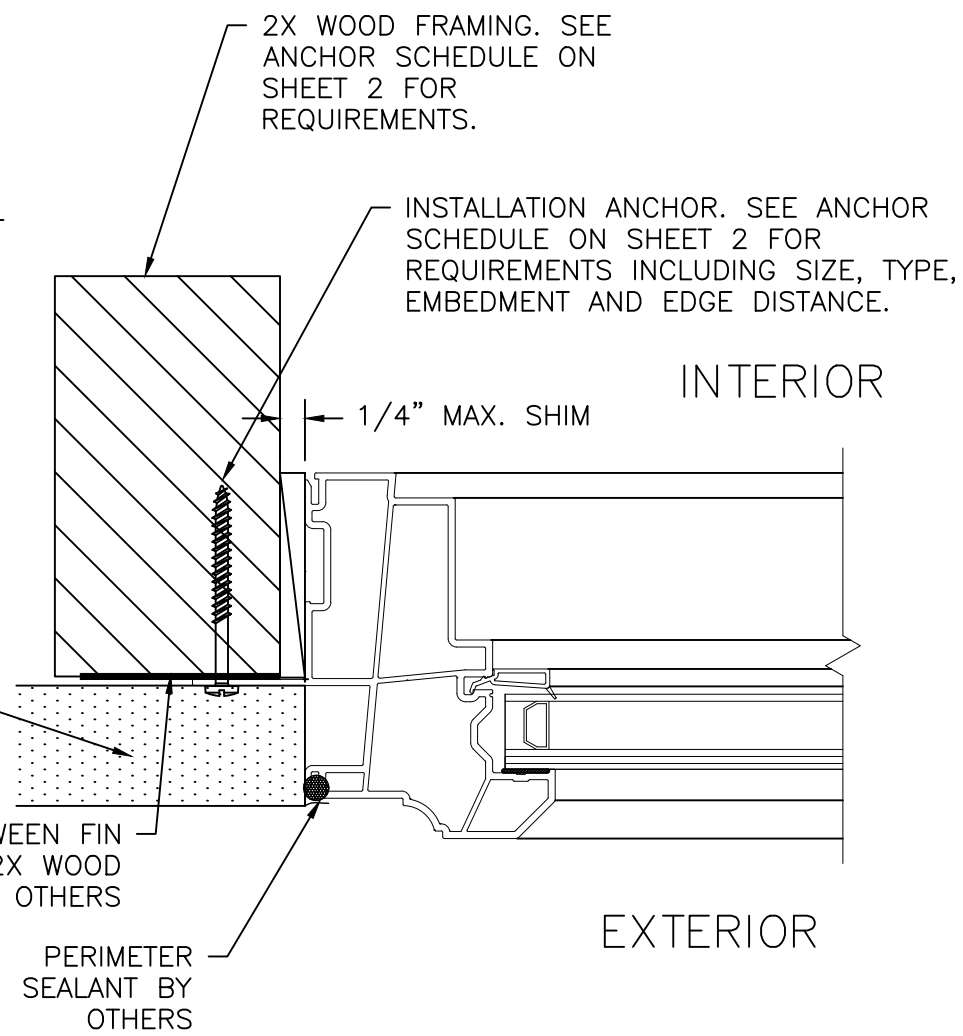
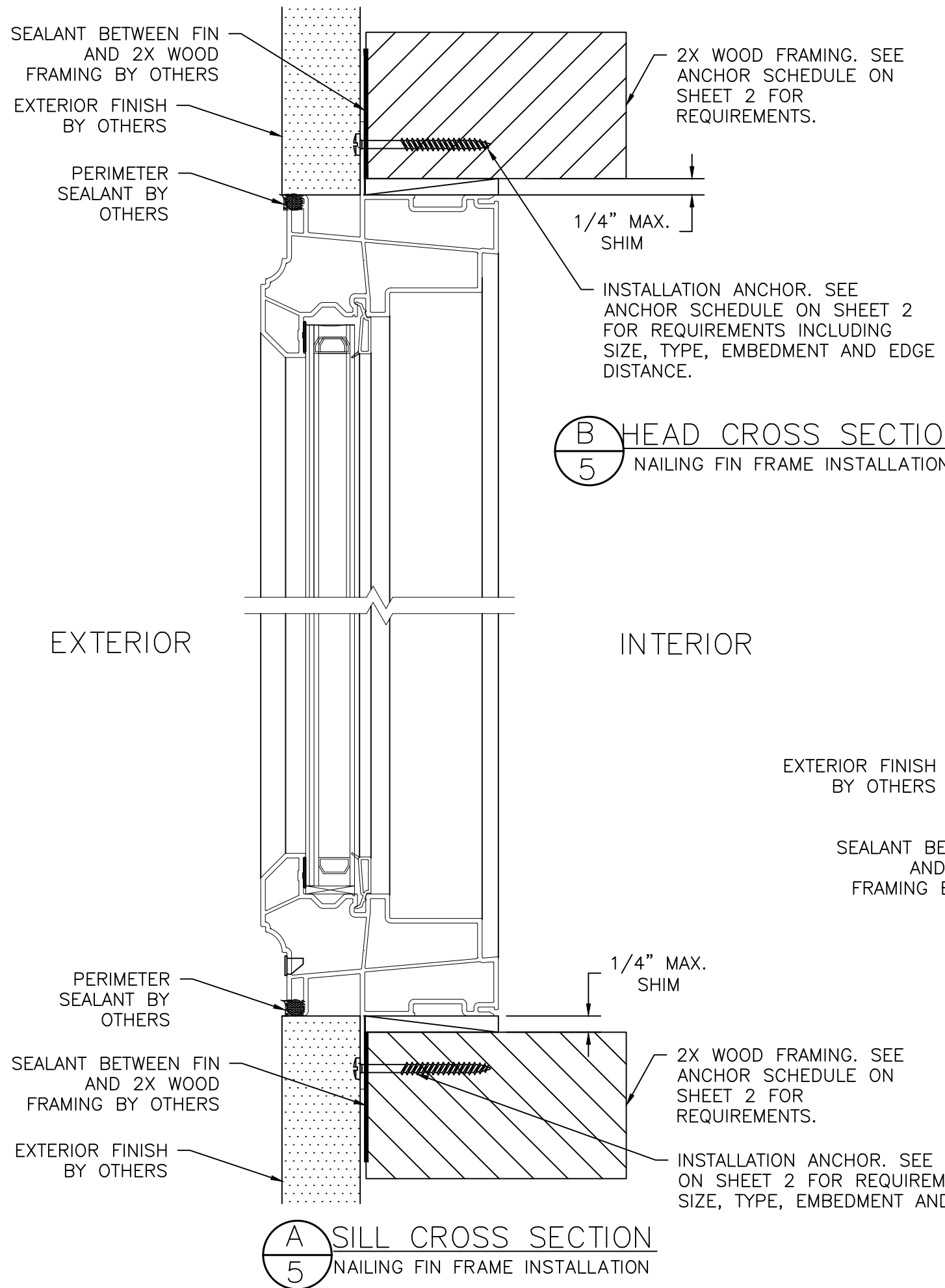
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SHT: 4 of 6



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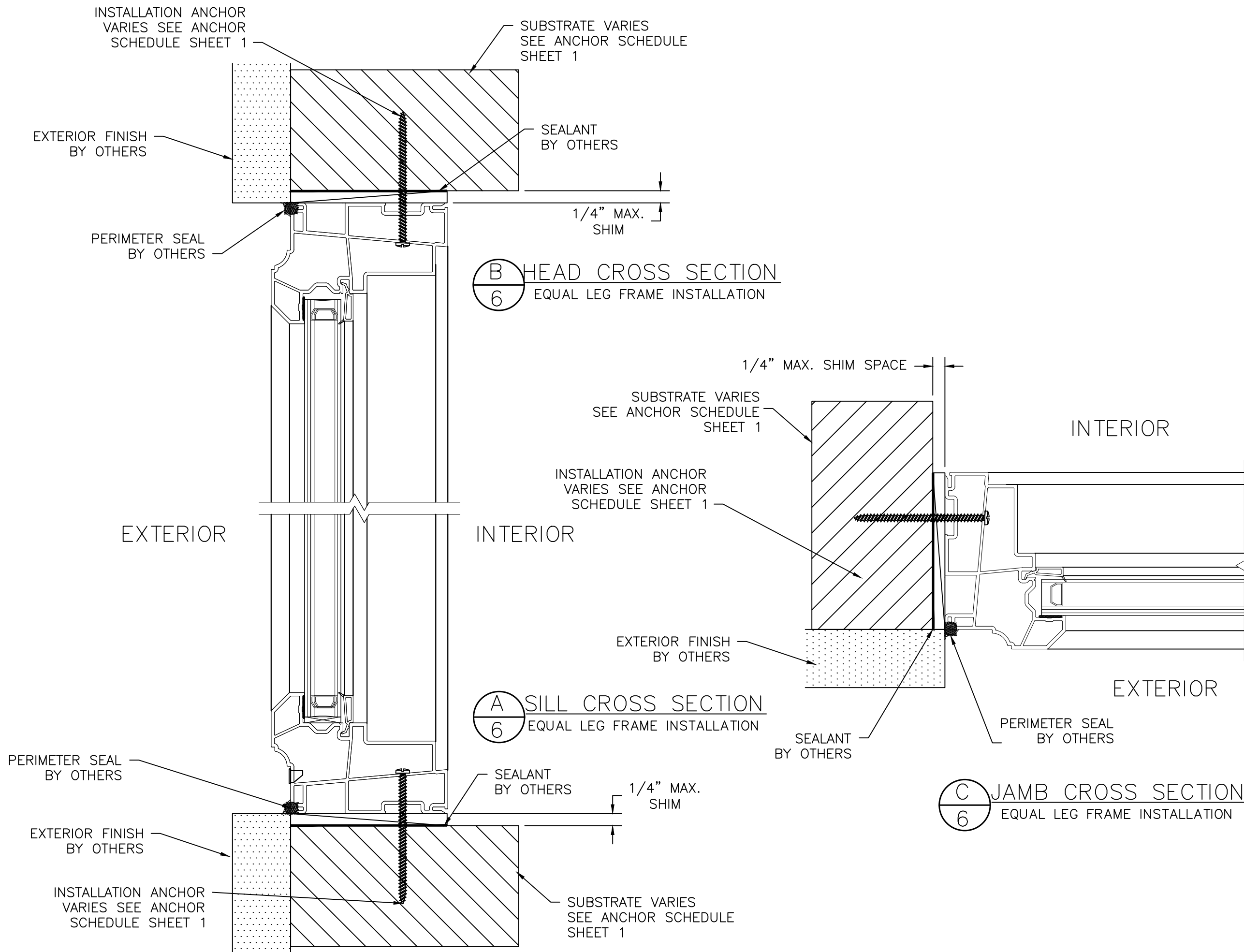
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