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REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHORING SPACING	05/20/2021	R.L.
B	CURRENT FBC & Ops-0061	08/24/26	LMH

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
4. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
5. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
6. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. FOR FIN INSTALLATION SHIM AS NEEDED. FOR FRAME INSTALLATION SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: EXTRUDED RIGID PVC.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 9 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
13. FOR FIN INSTALLATION INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR FRAME ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR FRAME ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2'' MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR FRAME ANCHORING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. WHEN THE PRODUCT SPECIFIED HEREIN IS INSTALLED WITHIN 3000 FEET OF A SALTWATER COASTLINE, ALL ANCHORS AND CLIPS MUST COMPLY WITH SALTWATER ENVIRONMENT CORROSION RESISTANCE REQUIREMENTS OF FBC CHAPTER 17.
19. 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 BELOW:
    A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
    B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
    C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
    D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .125" THICK MINIMUM
20. APPROVED CONFIGURATION: XOX.
21. UNITS MAY BE INSTALLED WITH OR WITHOUT FLANGE, OUTSIDE THE HVHZ.

FL 16804

TABLE OF CONTENTS	
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1	NOTES
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3	HORIZONTAL CROSS SECTIONS
4 – 8	INSTALLATION DETAILS
9	COMPONENTS AND GLAZING DETAILS

SIGNED: 08/24/2026

Eastern ARCHITECTURAL SYSTEMS ALUMINUM AND VINYL IMPACT WINDOWS AND DOORS

EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
CORNERSTONE BUILDING BRANDS
16341 DOMESTIC AVE
FORT MYERS, FL 33912
800-432-2204

SERIES 176 HRP 424 PVB VINYL
HORIZONTAL SLIDING WINDOW (XOX) 111" X 63"
NOTES

DRAWN:	DWG NO.	REV
A.R.	08-03659	B

SCALE	DATE	SHEET
NTS	01/11/21	1 OF 9

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
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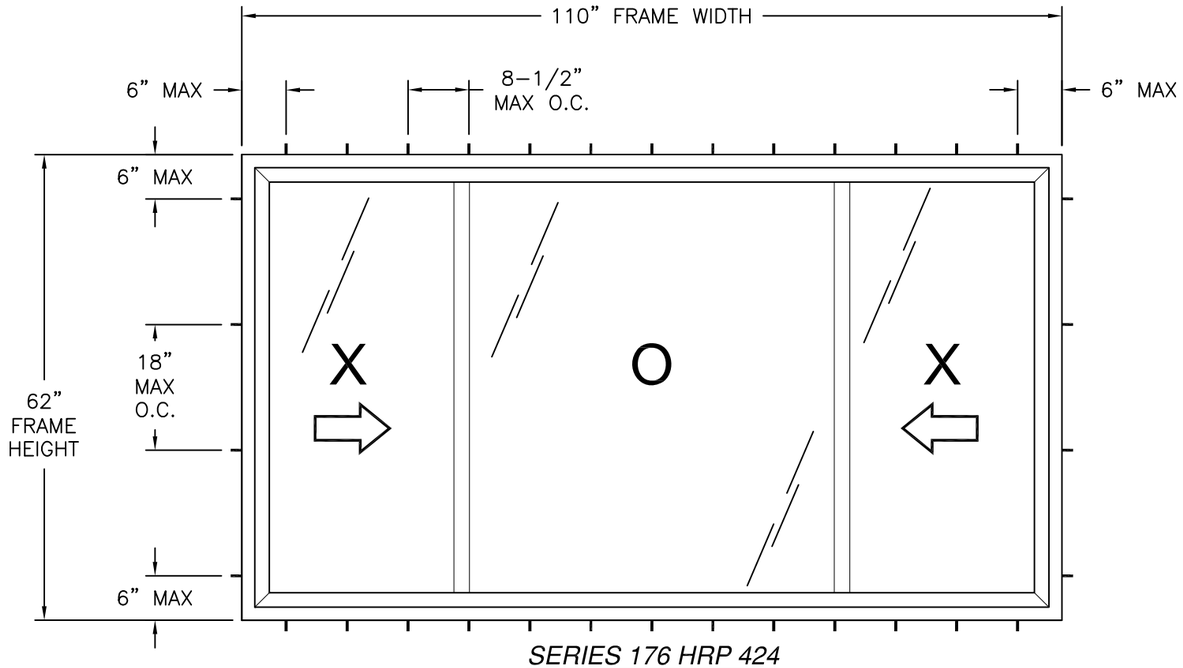
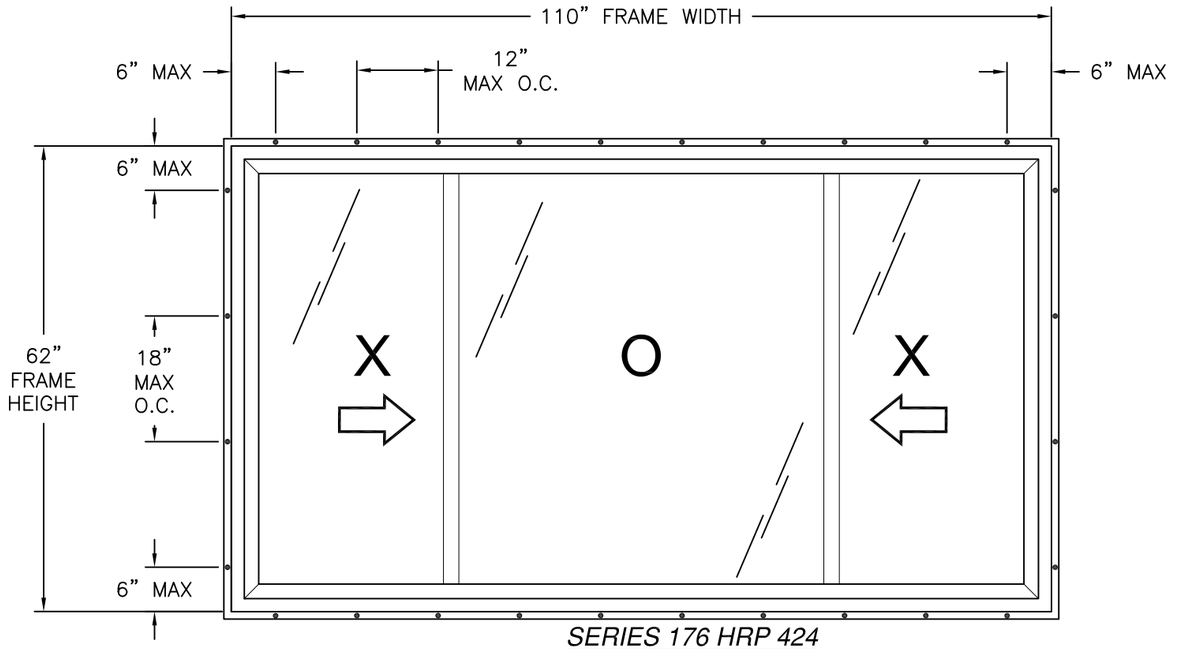


SERIES 176 HRP 424
EXTERIOR VIEW
FINLESS INSTALLATION



SERIES 176 HRP 424
EXTERIOR VIEW
FIN INSTALLATION

DESIGN PRESSURE RATING	*IMPACT RATING*
±60.0 PSF	*LARGE MISSILE IMPACT*

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

NOTES:
1. OPERABLE SASH SIZE: 28-1/16" X 59-3/8".
2. OPERABLE SASH D.L.O.: 28-1/16" X 55-7/8".
3. FIXED SASH D.L.O.: 50-1/2" X 57-3/16"
4. (2) WEEPS WITH COVER (97-03) AT SILL FACE FROM EACH CORNER.
5. (2) 1-1/2" X 1/4" WEEP SLOT AT SILL FACE 4-1/8" FROM EACH CORNER.
6. (2) 1/8" X 12" WEEP SLOT AT SILL FACE AND SILL SASH 3-1/8" FROM EACH END.
7. (2) 1/2" X 1/8" WEEP SLOT AT SILL BEHIND GLAZING LEG.

HARDWARE SCHEDULE	
A.	(4) ASHLAND DUAL KEEPERS (13999) AT FIXED MEETING STILE 8" FROM HEAD & SILL
B.	(4) ASHLAND DUAL LOCKS (D2100AL/R) AT SASH LOCK STILE 8" FROM SASH CORNERS
C.	(4) ROLLER HOUSINGS AT EACH CORNER OF SASH BOTTOM RAILS.
D.	(3) TRACKS AT OPERABLE SASH HEAD & SILL
E.	(1) ALUMINUM REINFORCEMENT (10300265) IN FIXED MEETING RAIL
F.	(5) ALUMINUM REINFORCEMENT (10300266) IN SASH TOP AND BOTTOM RAILS, JAMB STILES AND SASH LOCK RAIL

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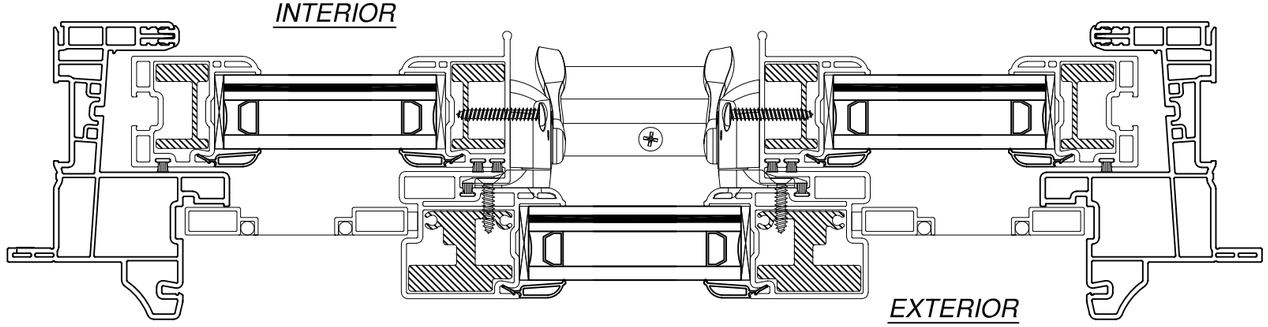
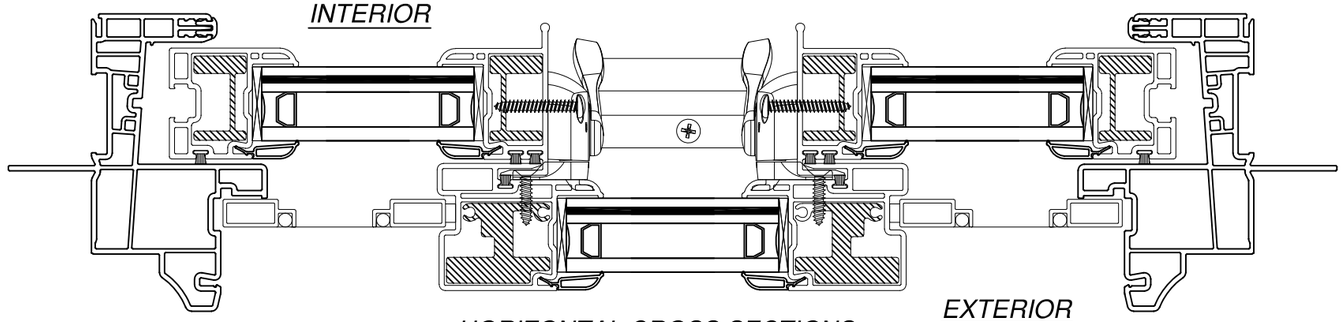


HORIZONTAL CROSS SECTIONS
FINLESS INSTALLATION



HORIZONTAL CROSS SECTIONS
FIN INSTALLATION

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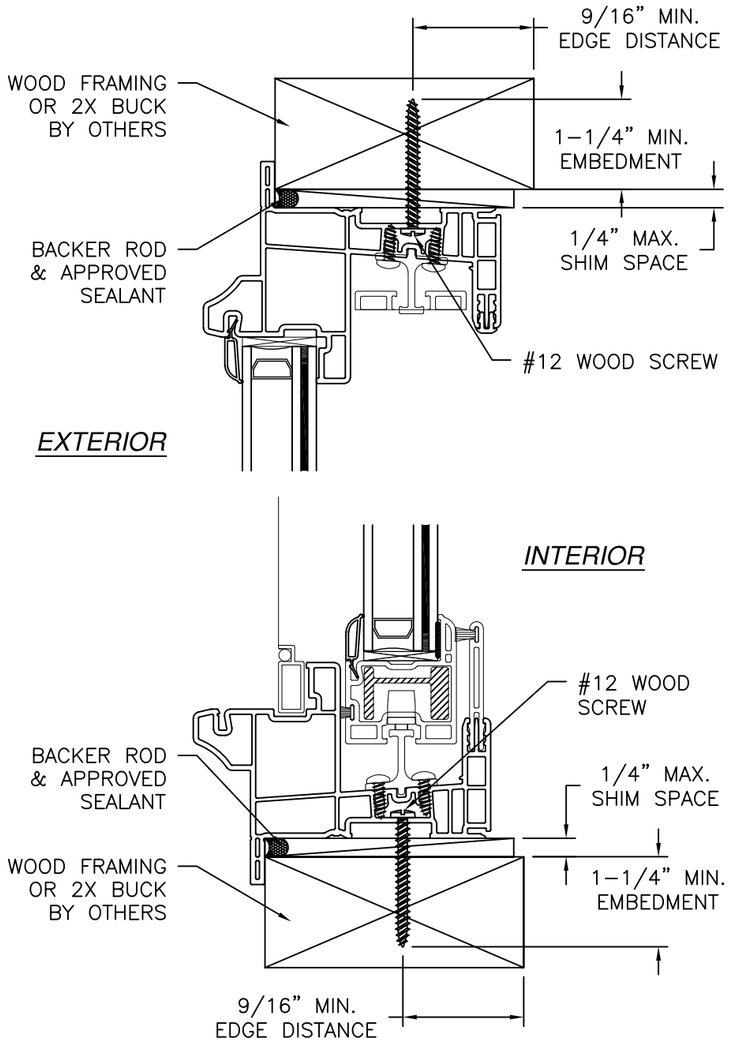
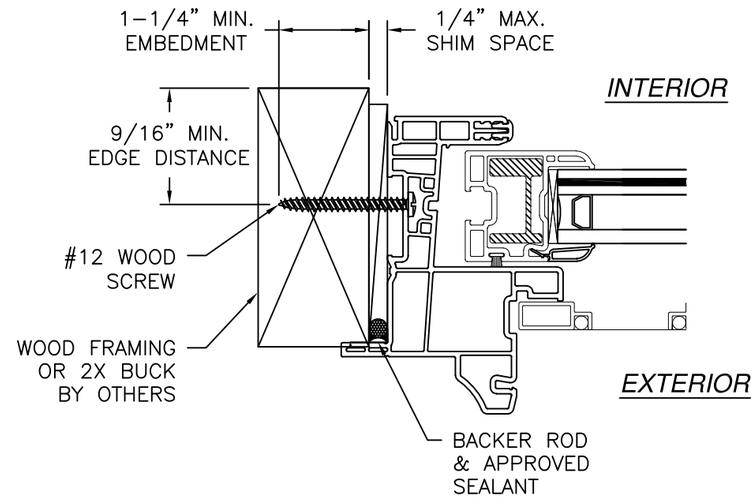


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

FL 16804

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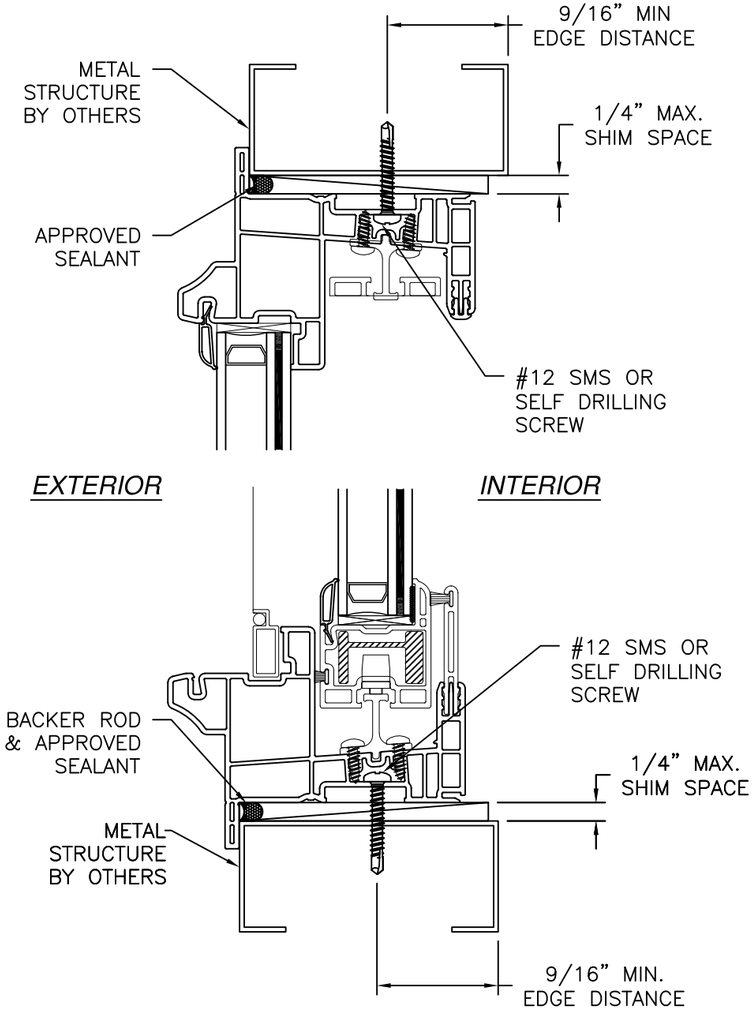
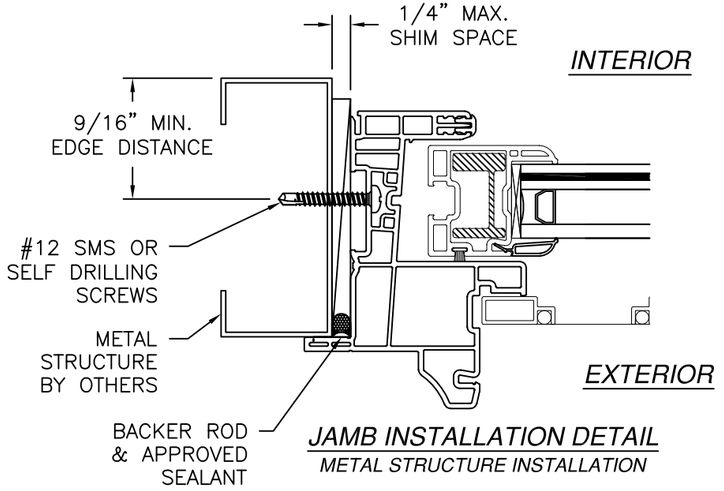


VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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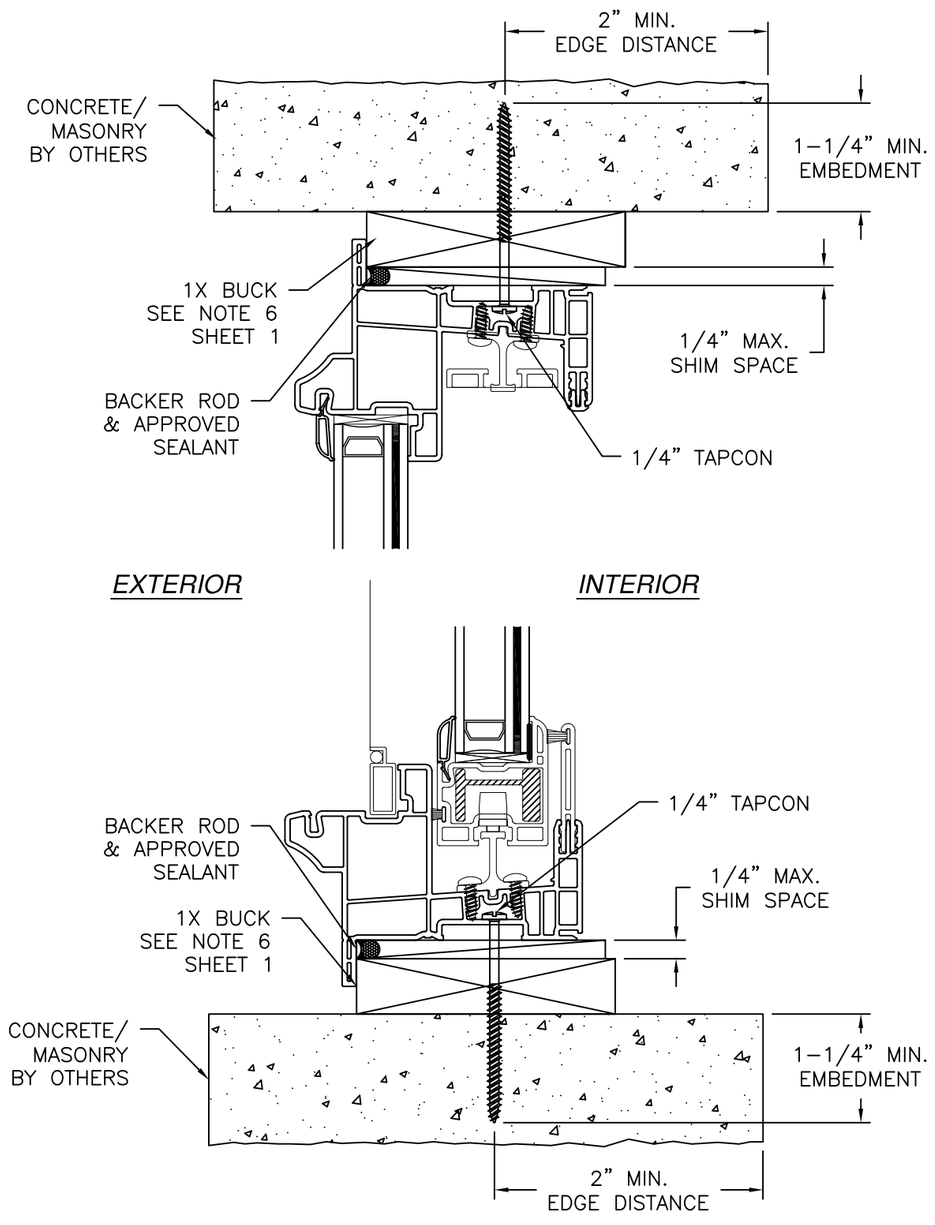
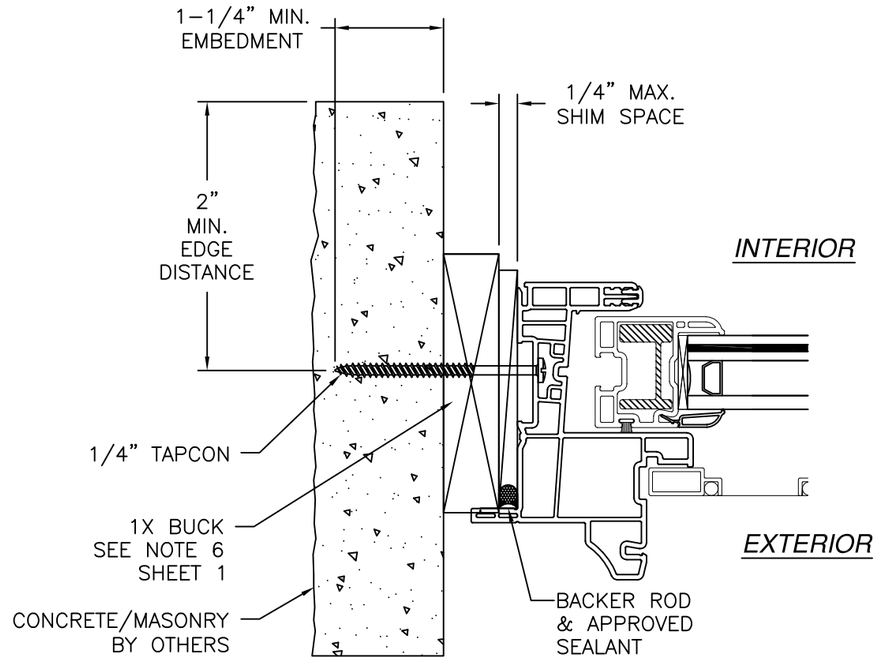


VERTICAL CROSS SECTION
CONCRETE/MASONRY W/1X BUCK INSTALLATION



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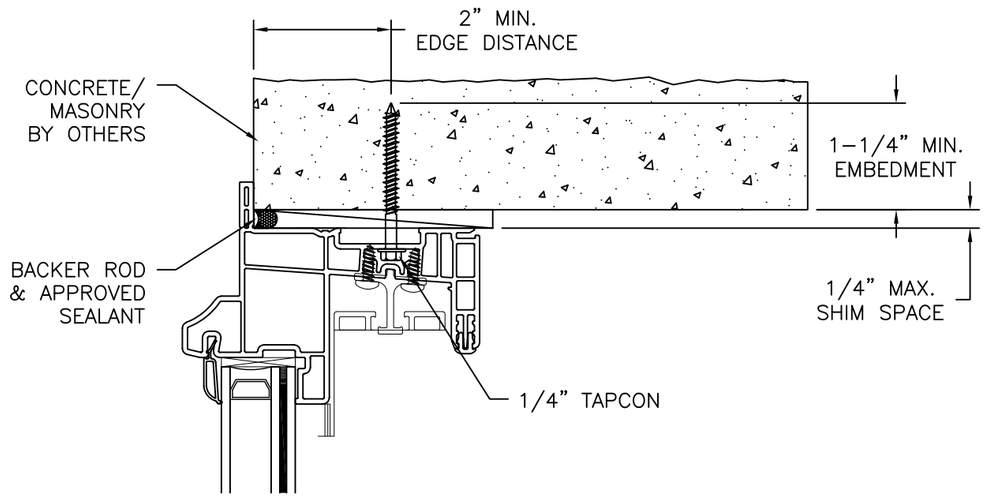

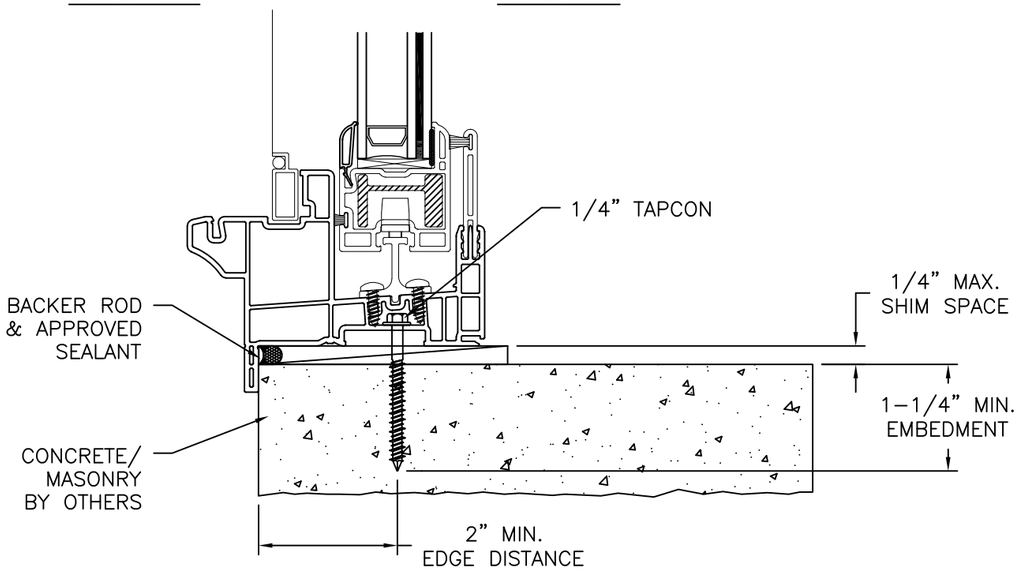

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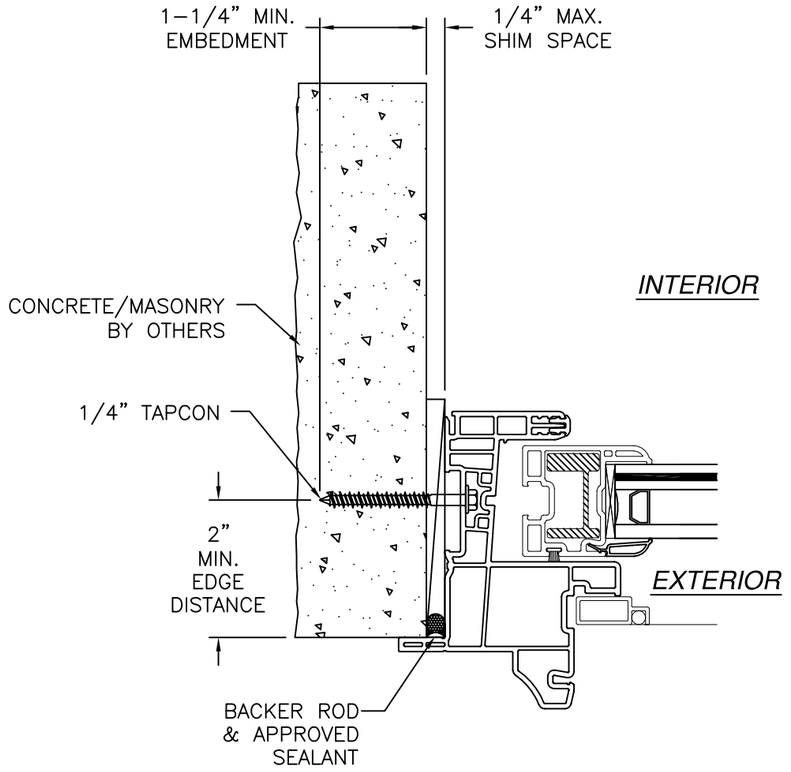
CONCRETE/MASONRY INSTALLATION



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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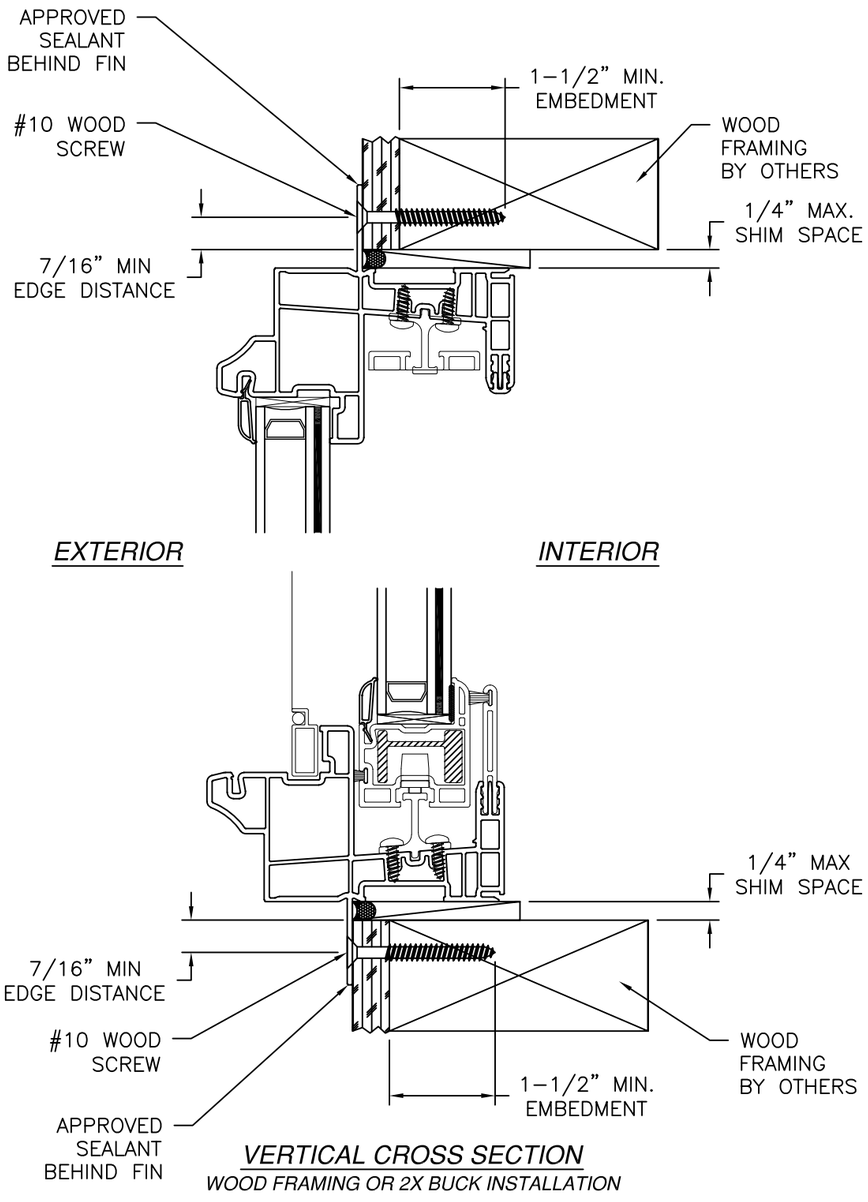
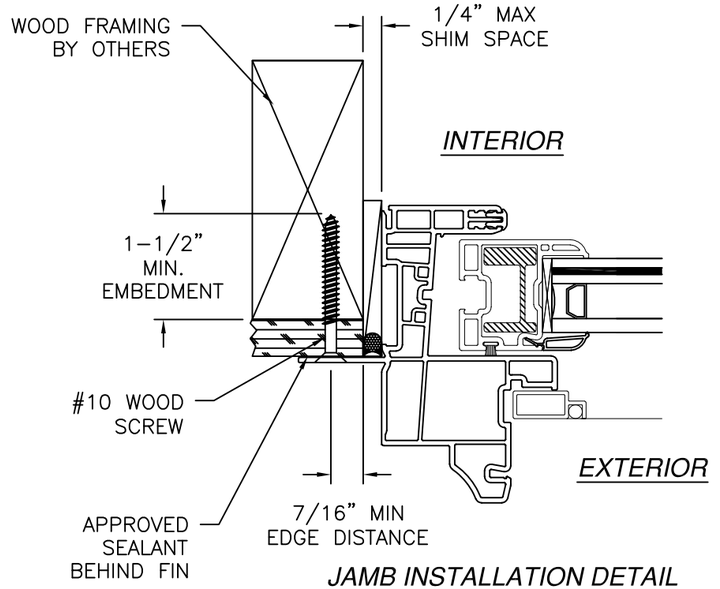


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



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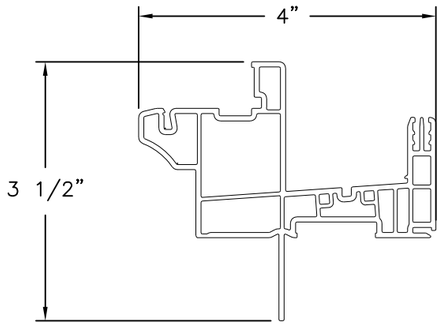
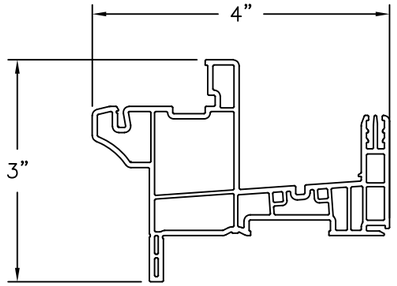
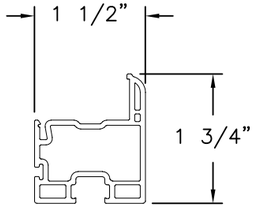


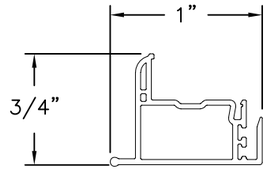
MAIN FRAME FIN INSTALLATION (4761)
EXTRUDED RIGID PVC



MAIN FRAME (4731)
EXTRUDED RIGID PVC



BOTTOM RAIL (5539)
EXTRUDED RIGID PVC



LOCK RAIL (4720)
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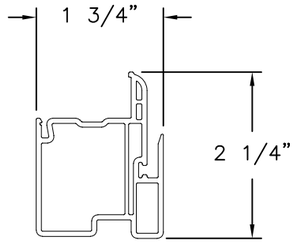

FIXED MEETING RAIL (4719)
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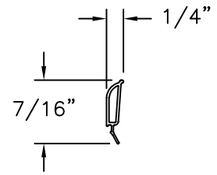
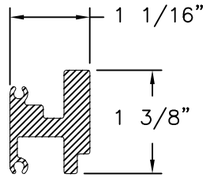
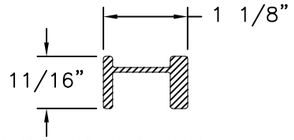


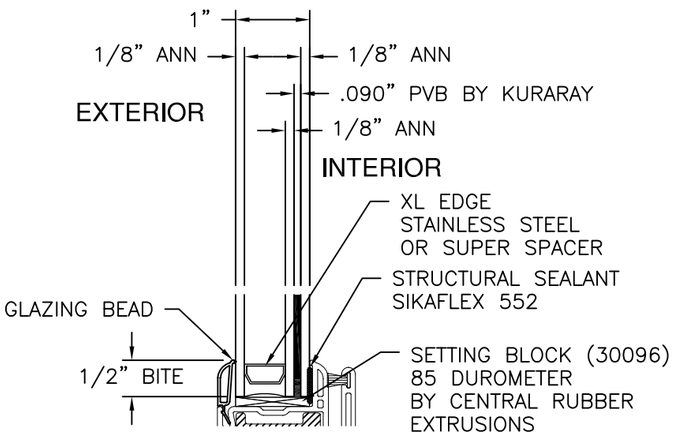
GLAZING BEAD (5464)
EXTRUDED RIGID PVC



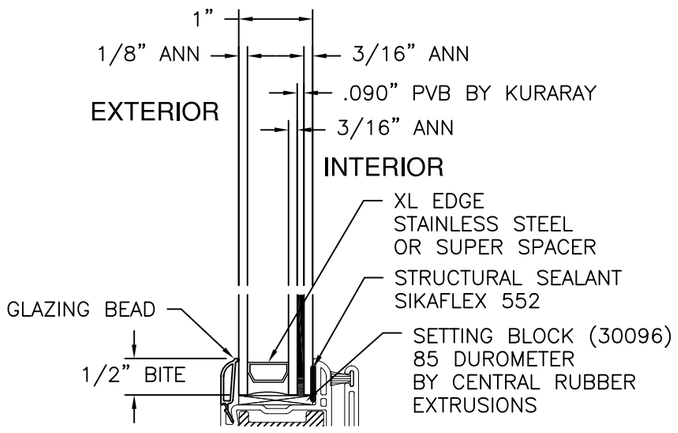
REINFORCEMENT (55556)
6005-T5 ALUMINUM



REINFORCEMENT (55557)
6005-T5 ALUMINUM



GLAZING DETAIL A
SASH



GLAZING DETAIL B
FIXED

FL 16804

SIGNED: 08/24/2026

Eastern Architectural Systems
Aluminum and Vinyl Impact Windows and Doors

EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
CORNERSTONE BUILDING BRANDS
16341 DOMESTIC AVE
FORT MYERS, FL 33912
800-432-2204

SERIES 176 HRP 424 PVB VINYL
HORIZONTAL SLIDING WINDOW (XOX) 111” X 63”
COMPONENTS AND GLAZING DETAILS

DRAWN:	DWG NO.	REV
A.R.	08-03659	B
SCALE NTS	DATE 01/11/21	SHEET 9 OF 9

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
FL No.: 62514