

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/04/2020	R.L.
B	REVISED TO ADD HVHZ TESTING	02/22/2021	R.L.

- 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. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
 4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1–1/2” 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.
 5. WHERE WOOD BUCK THICKNESS IS 1–1/2” OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS.
 6. 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.
 7. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
 8. 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”.
 9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
 10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
 11. FRAME MATERIAL: EXTRUDED RIGID PVC.
 12. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 11 FOR GLASS DETAILS.
 13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
 14. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #8 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 ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE ROOFING NAILS (.105” Ø MINIMUM) WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH FRAME OR STRAP INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. FOR ANCHORING THROUGH FRAME OR STRAP INTO MASONRY/CONCRETE USE 3/16” 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.
18. FOR ANCHORING THROUGH FRAME OR STRAP INTO METAL STRUCTURE USE #10 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.
19. ALL FASTENERS TO BE CORROSION RESISTANT.
20. 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 2,000 PSI.
 - C. MASONRY: GROUT/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI .125” THICK MINIMUM

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SHWINCO ARCHITECTURAL PRODUCTS, LLC.
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9800 VINYL HINGED PATIO DOOR
74” X 82” – IMPACT HVHZ
NOTES

DRAWN:
A.R.

DWG NO.
08–03585

REV
B

SCALE NTS

DATE 07/15/2020

SHEET 1 OF 11

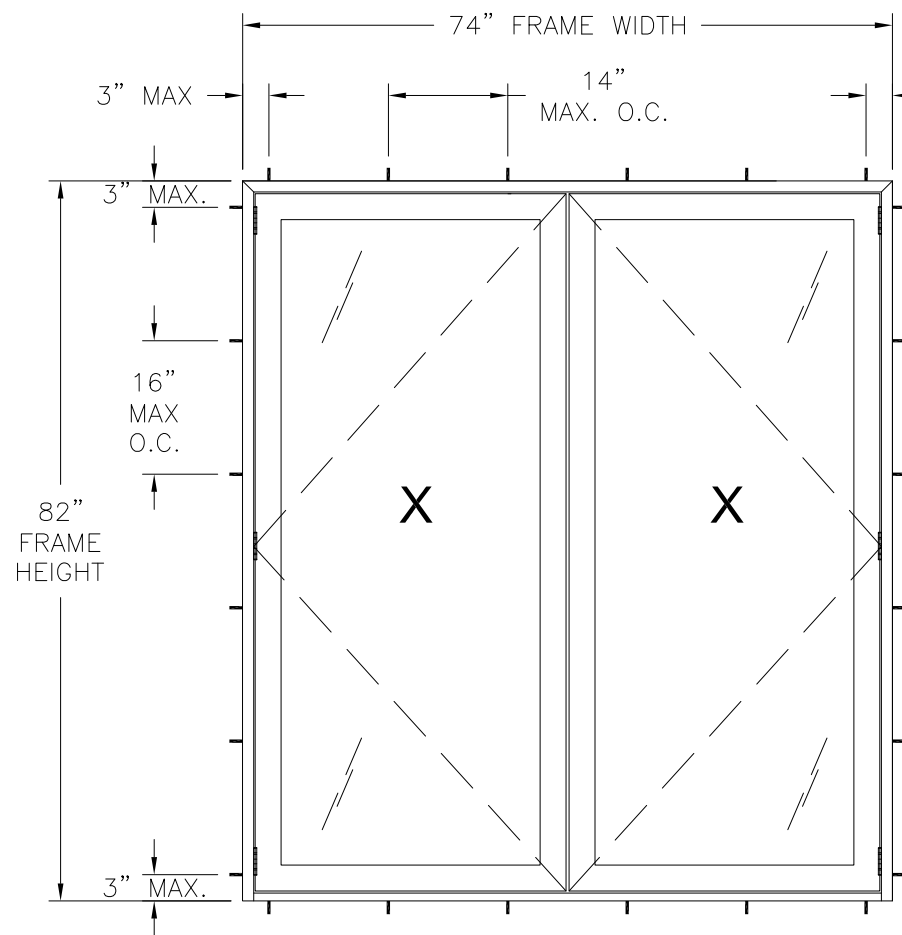
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

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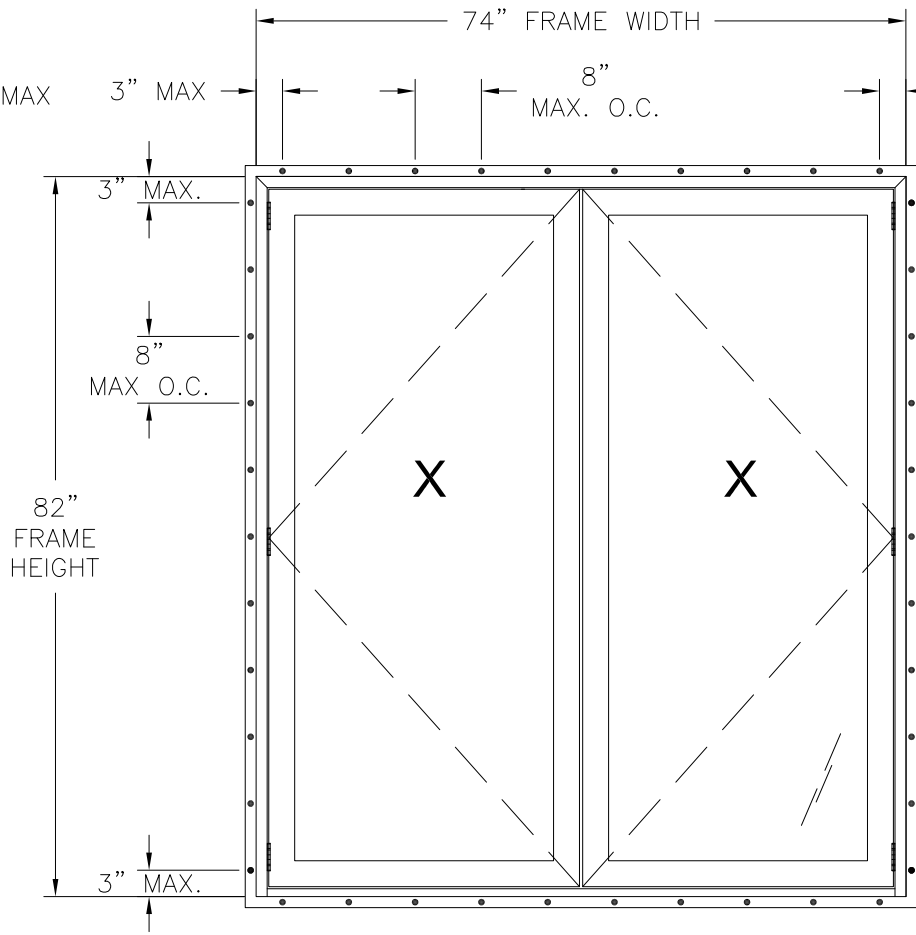


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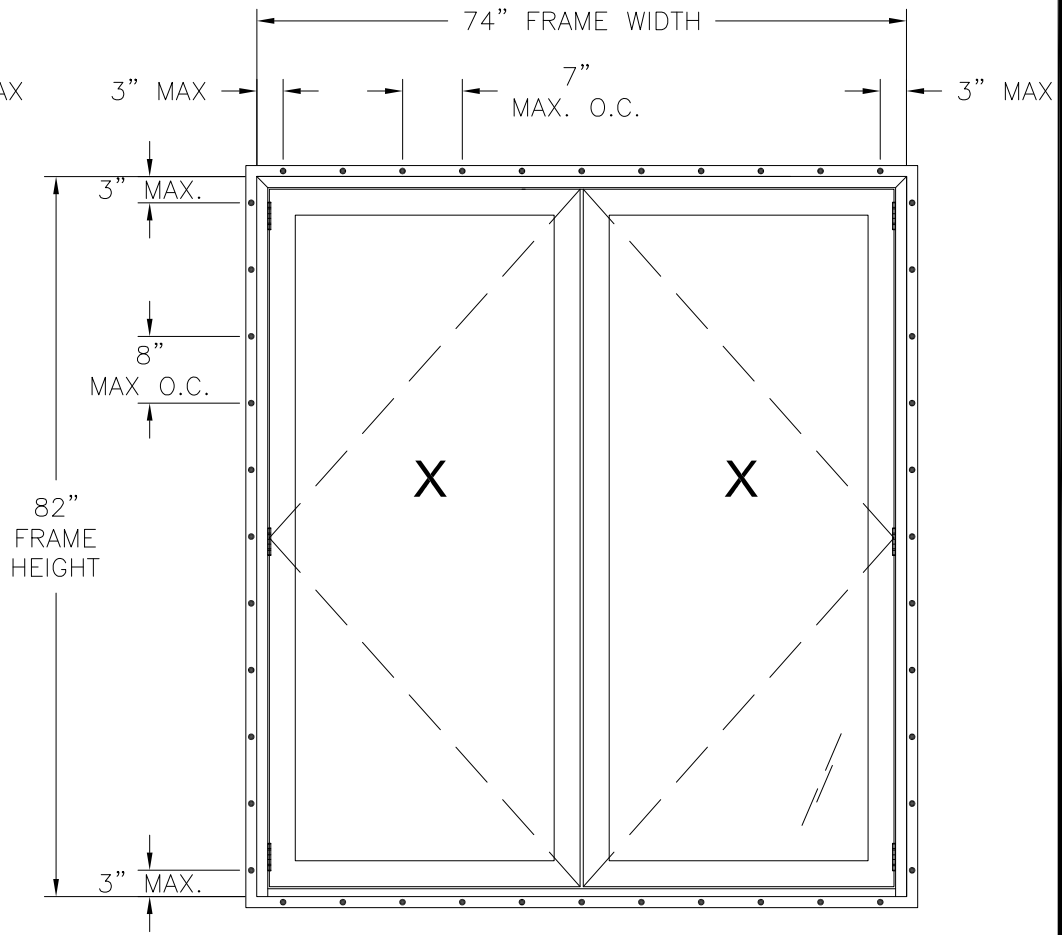
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SERIES 9800 VINYL HINGED PATIO DOOR
EXTERIOR VIEW
THROUGH FRAME AND STRAP INSTALLATION



SERIES 9800 VINYL HINGED PATIO DOOR
EXTERIOR VIEW
FIN INSTALLATION WITH WOOD SCREWS



SERIES 9800 VINYL HINGED PATIO DOOR
EXTERIOR VIEW
FIN INSTALLATION WITH ROOFING NAILS

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

- NOTES:
- PANEL SIZE: 35 1/4" X 79"
 - D.L.O. SIZE: 24 3/8" X 68 1/8"

HARDWARE SCHEDULE

A.	(6) HINGE SET (8762/SI-200), ONE HINGE SET ON EACH DOOR AT 4 1/2" FROM HEAD AND SILL AND 32" ON CENTER THEREAFTER
B.	(1) PREMIERE 2000 MULTIPOINT-LOCK (8778331/16-2310) AND KEEPER AT 57" FROM FRAME HEAD
C.	(1) INACTIVE MORTISE FLUSHBOLT (8787443) AT CENTER OF ASTRAGAL
D.	ALUMINUM REINFORCEMENT BAR (SHW_006606_1) AT TOP, BOTTOM RAIL, AND EACH STILE
E.	ALUMINUM REINFORCEMENT BAR (SHW_020059_1) AT DOOR FRAME
F.	ALUMINUM REINFORCEMENT BAR AT INTERIOR AND EXTERIOR OF ASTRAGAL

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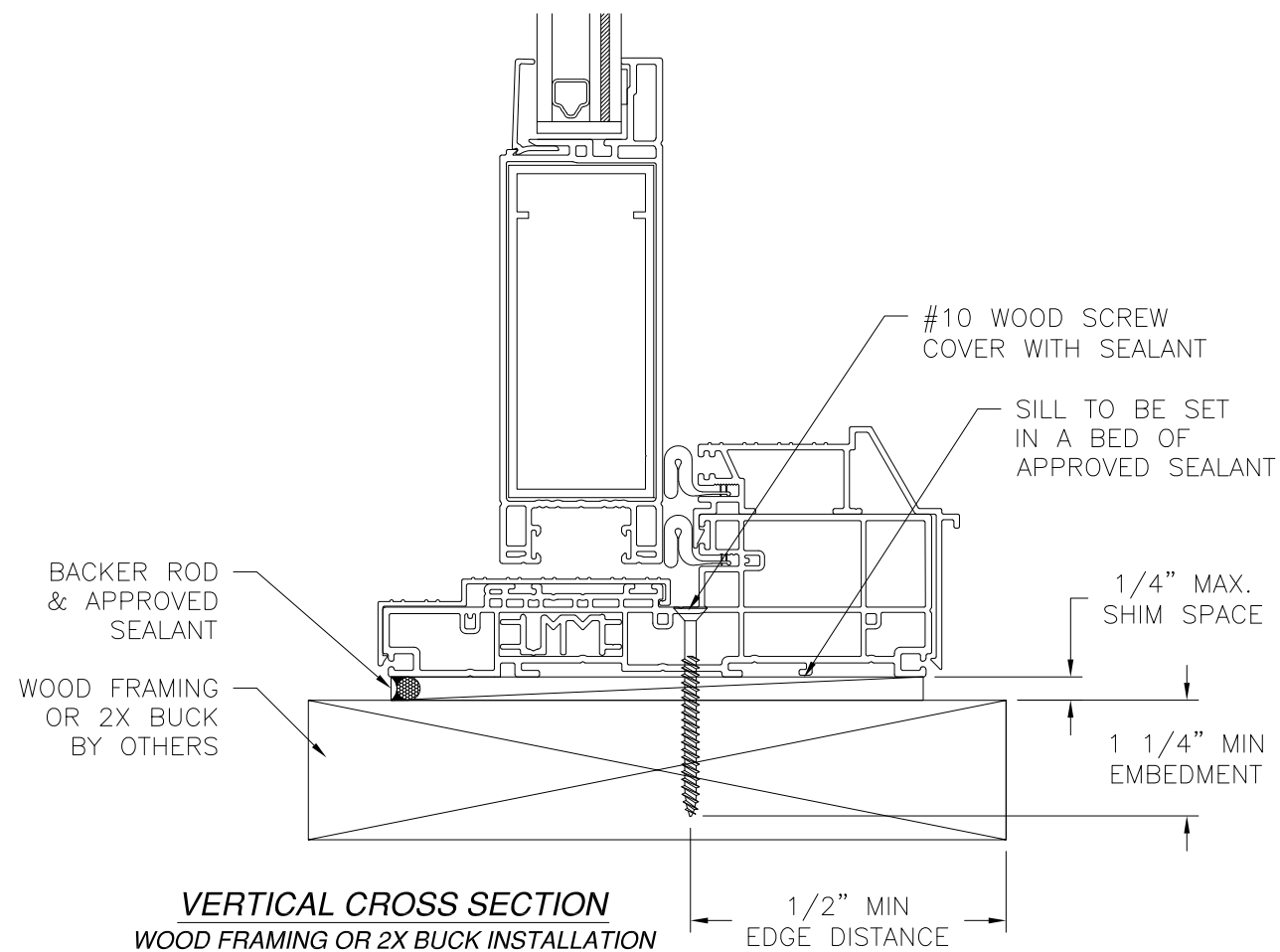
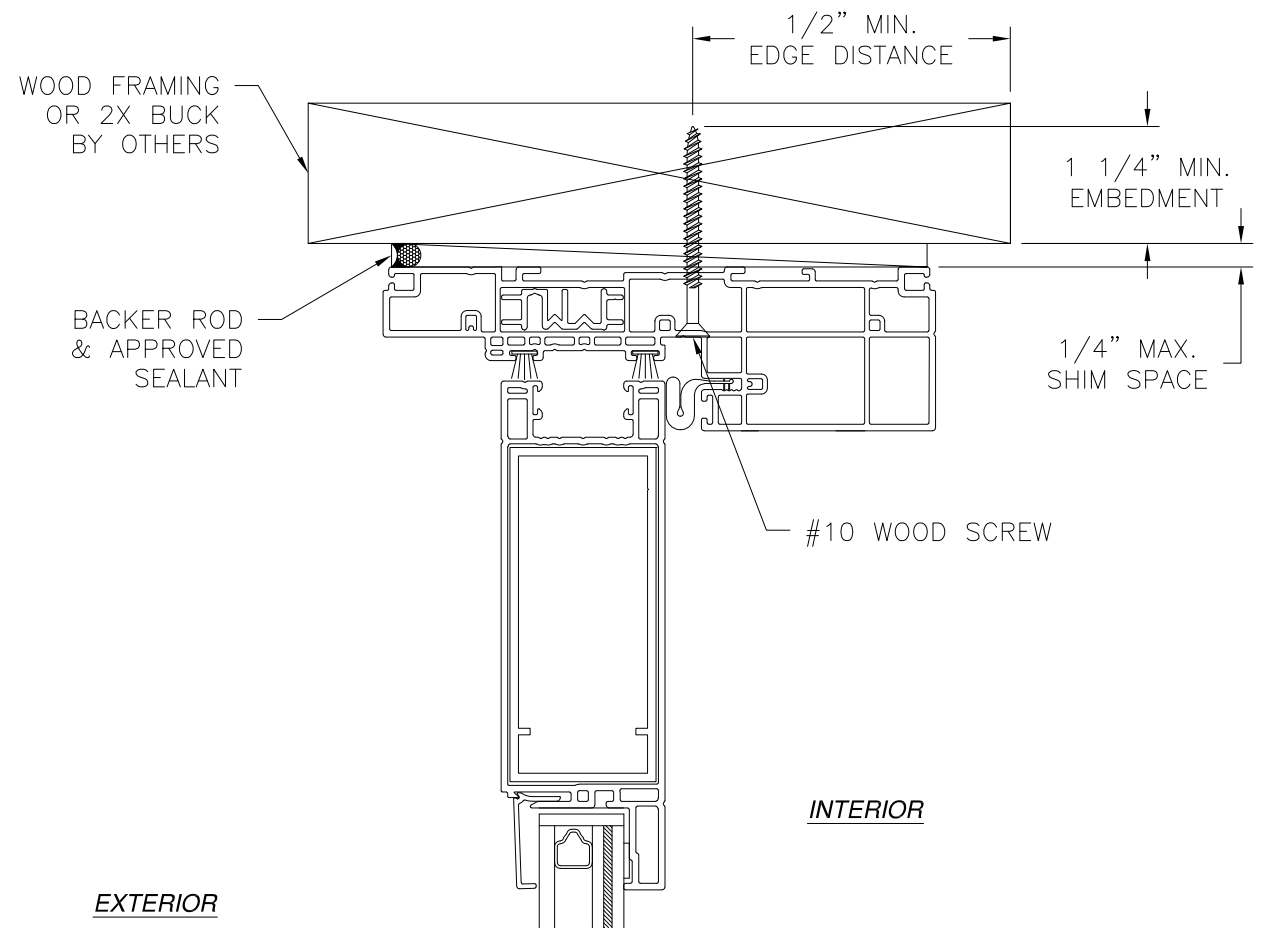
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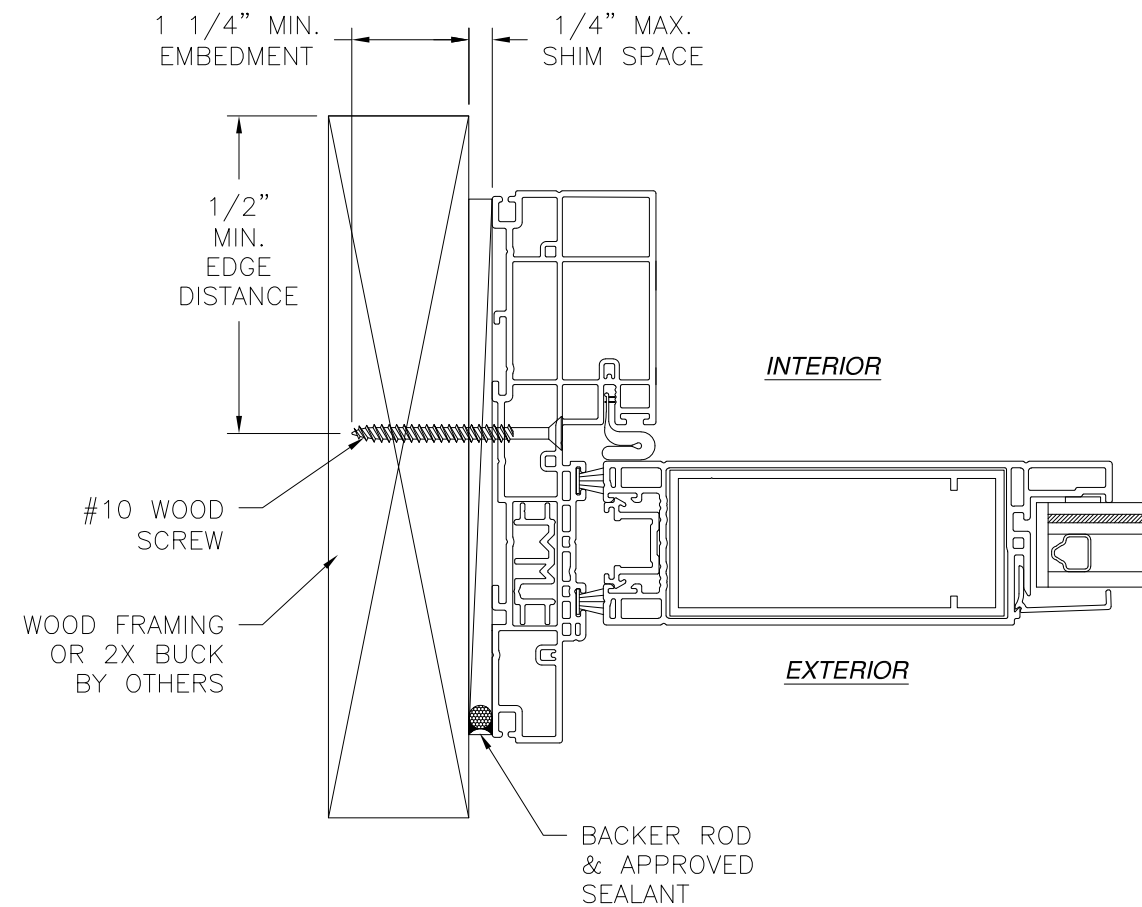
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:

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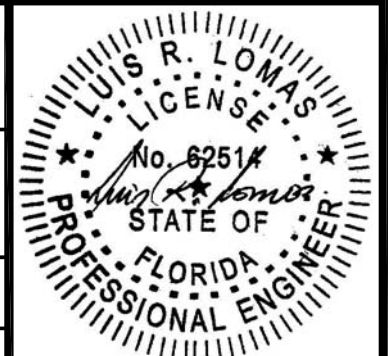
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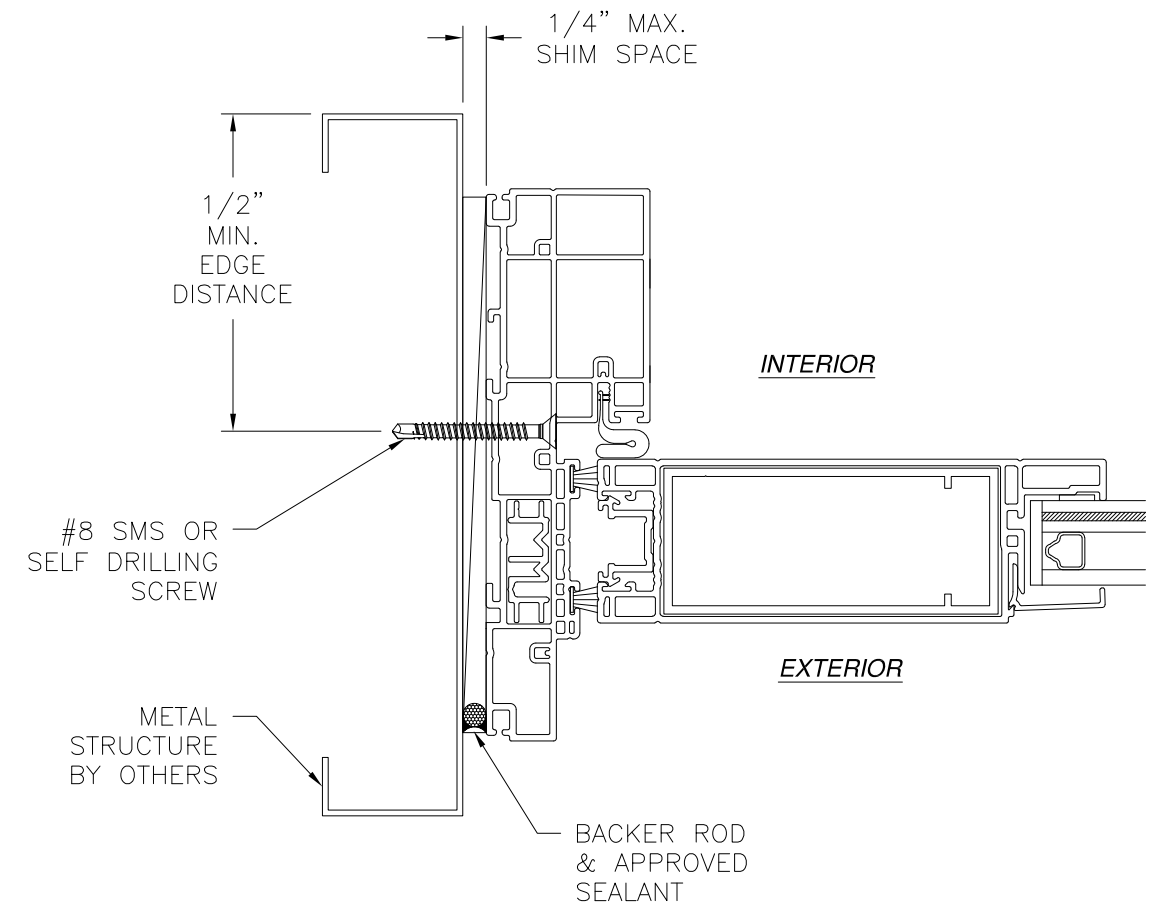
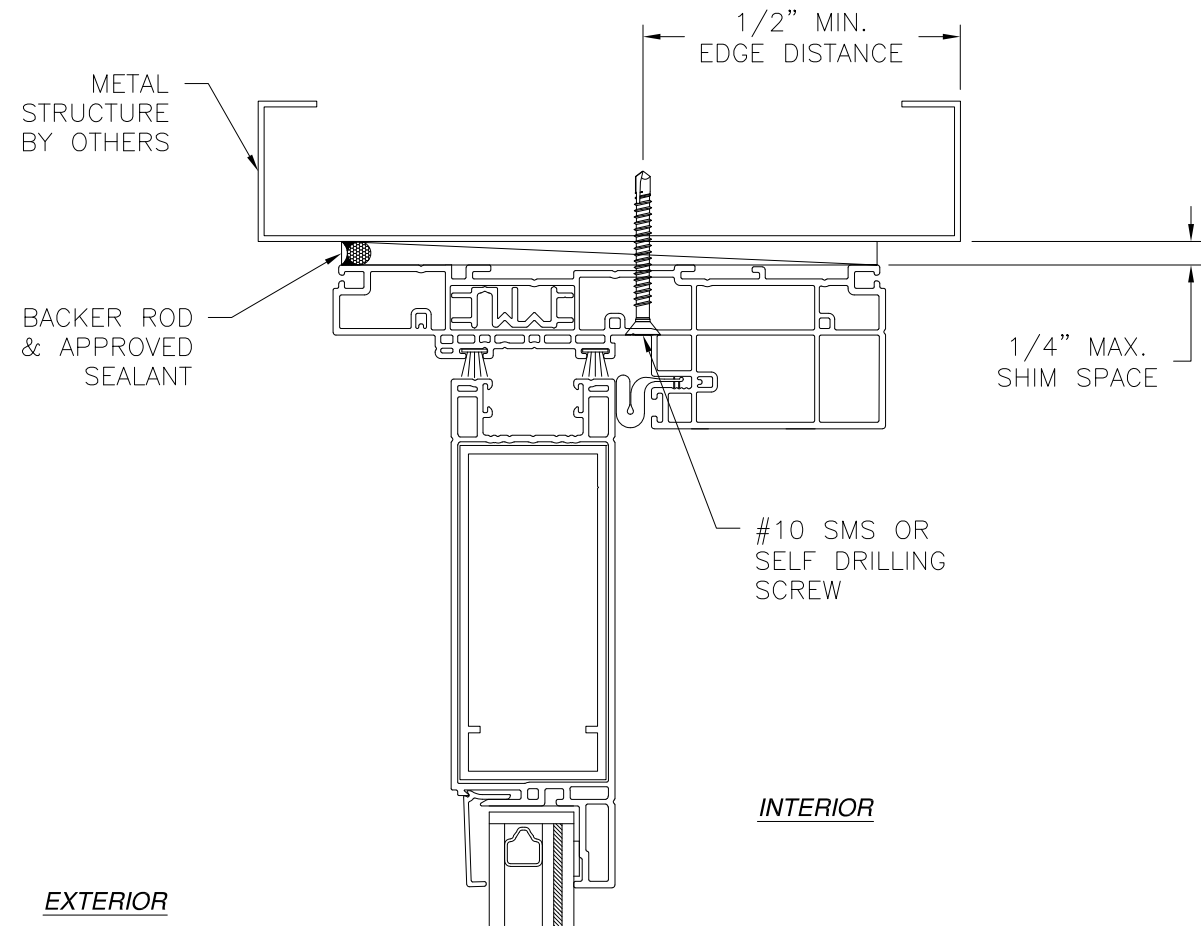
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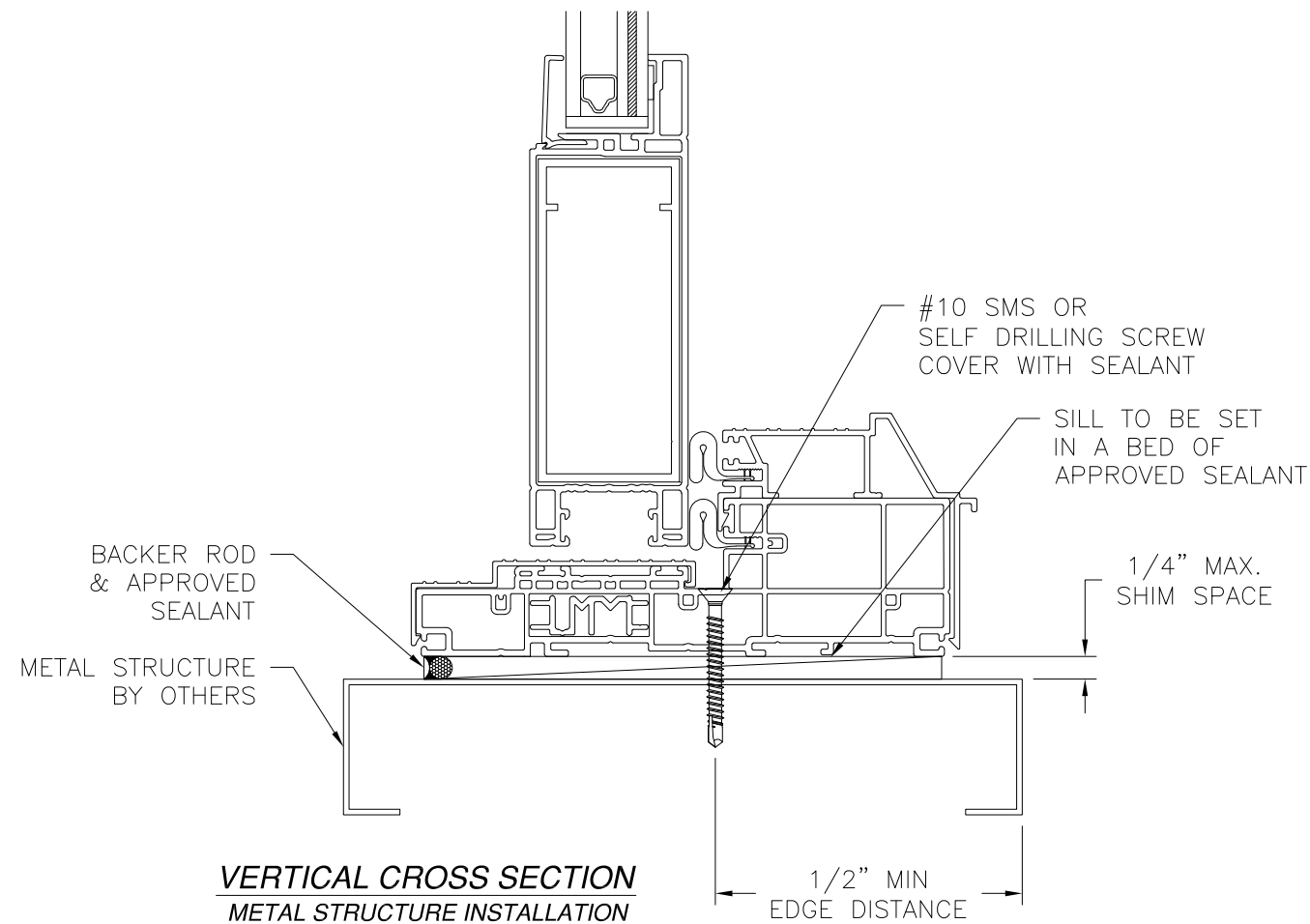
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JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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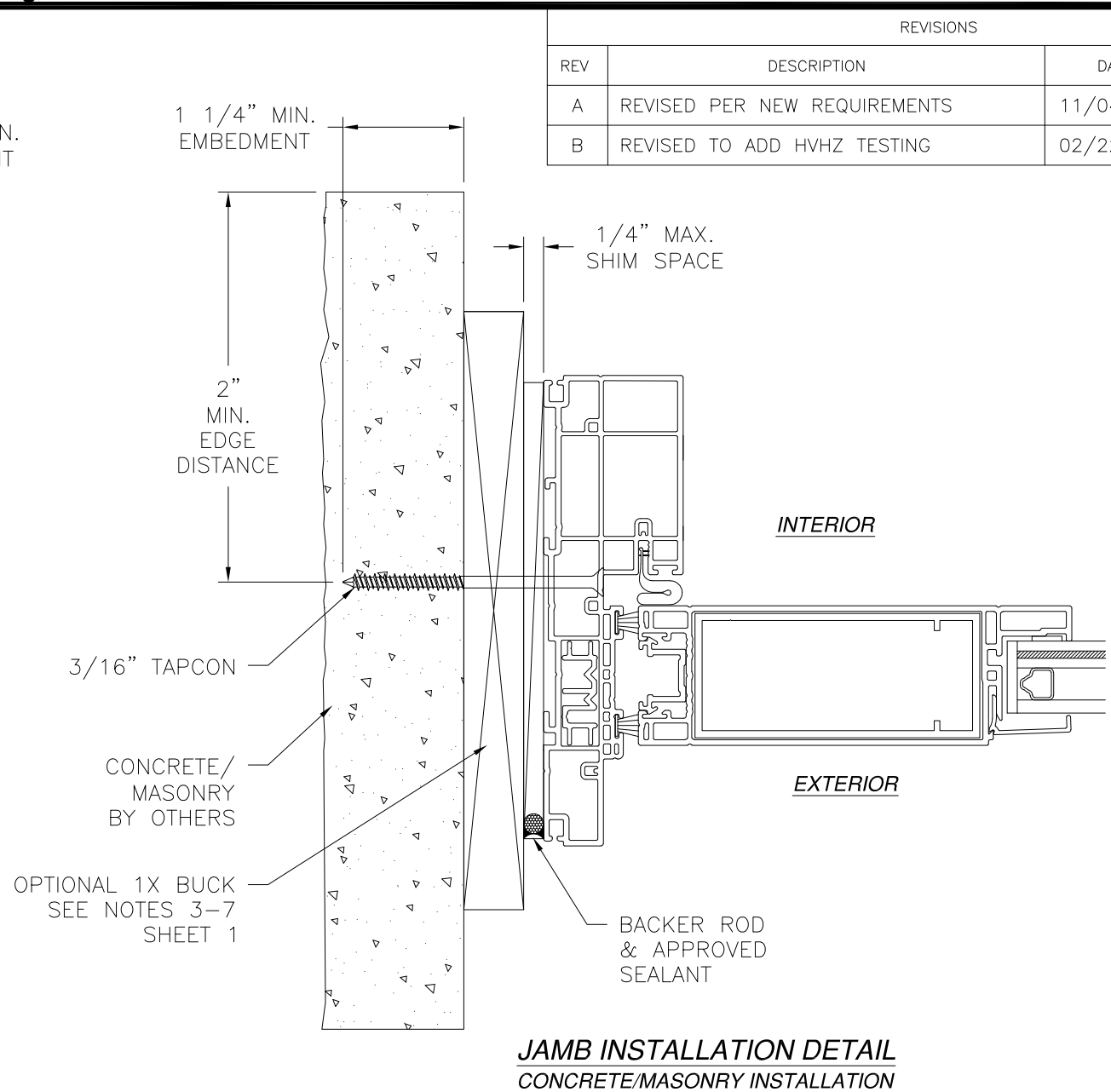
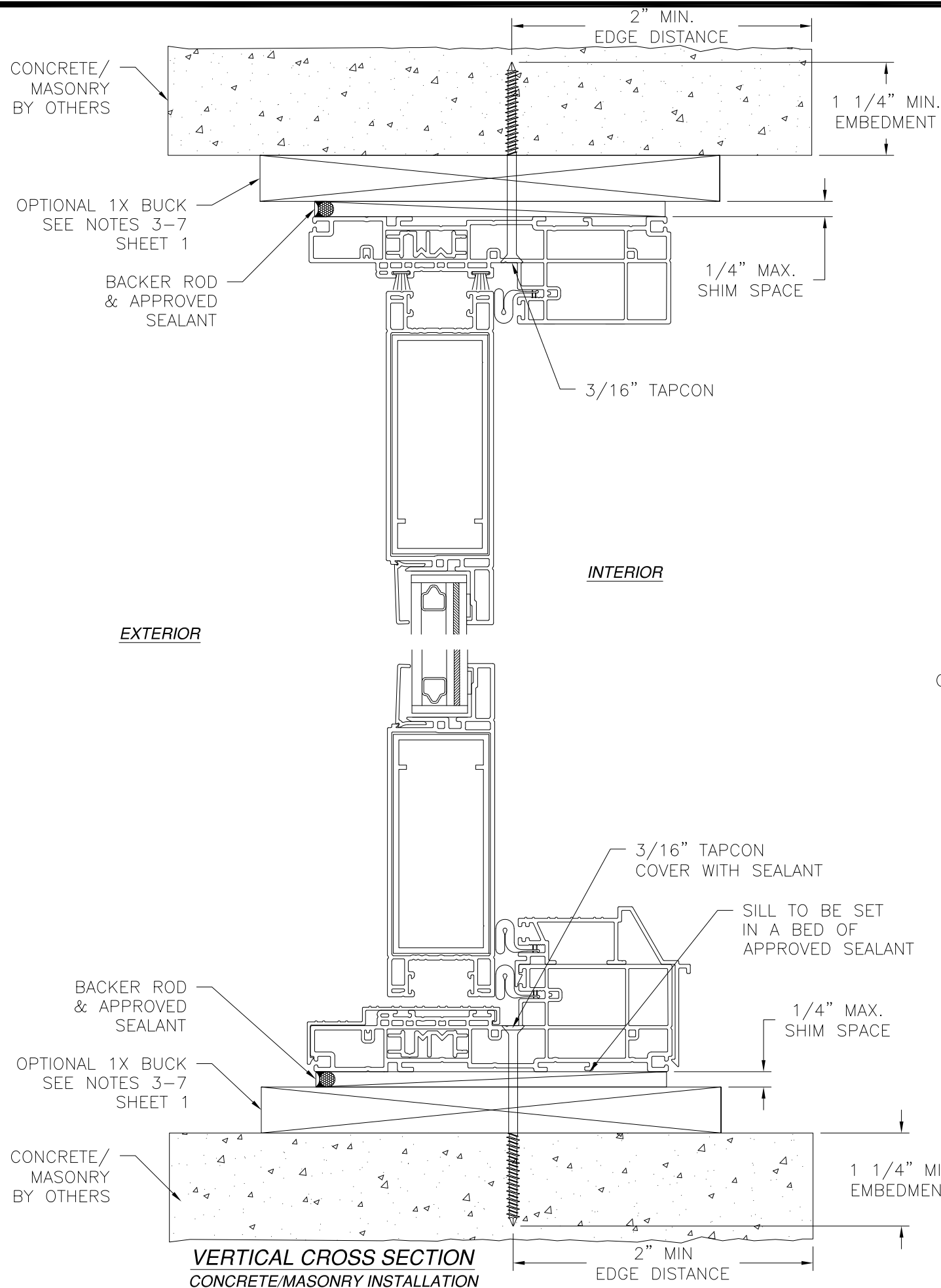
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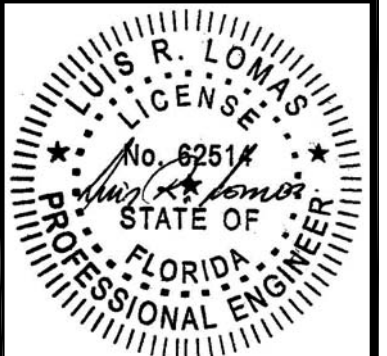
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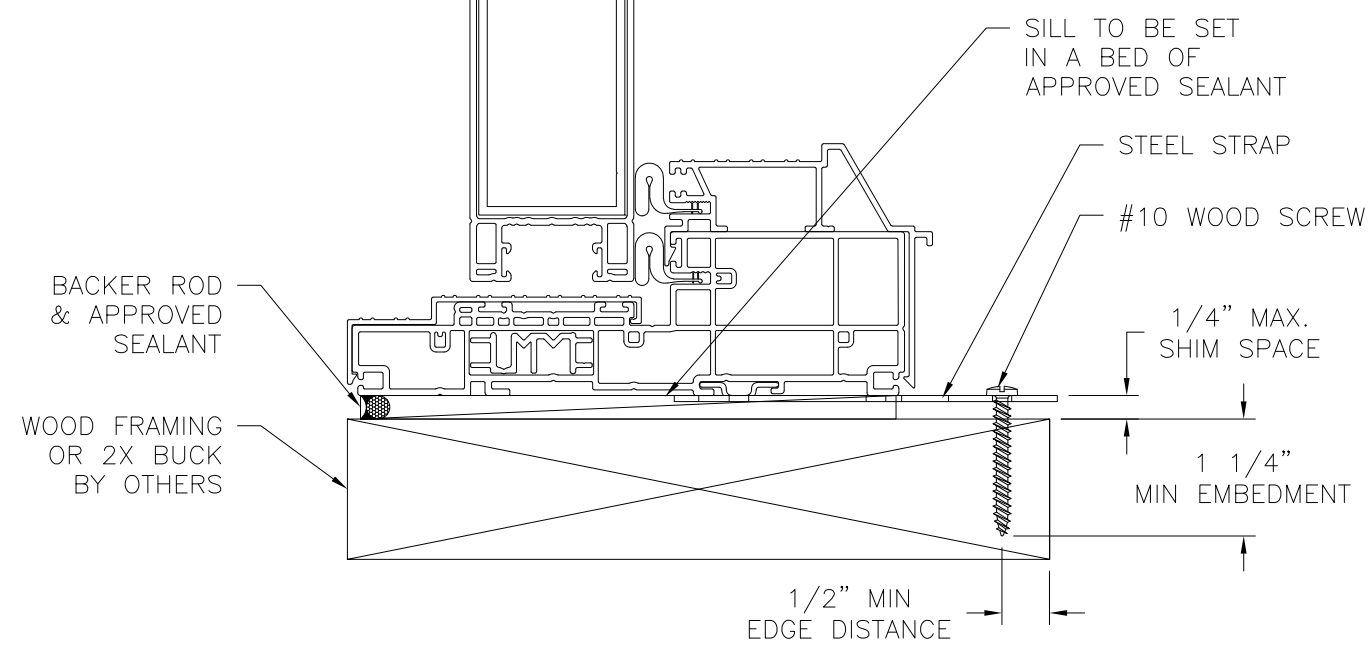
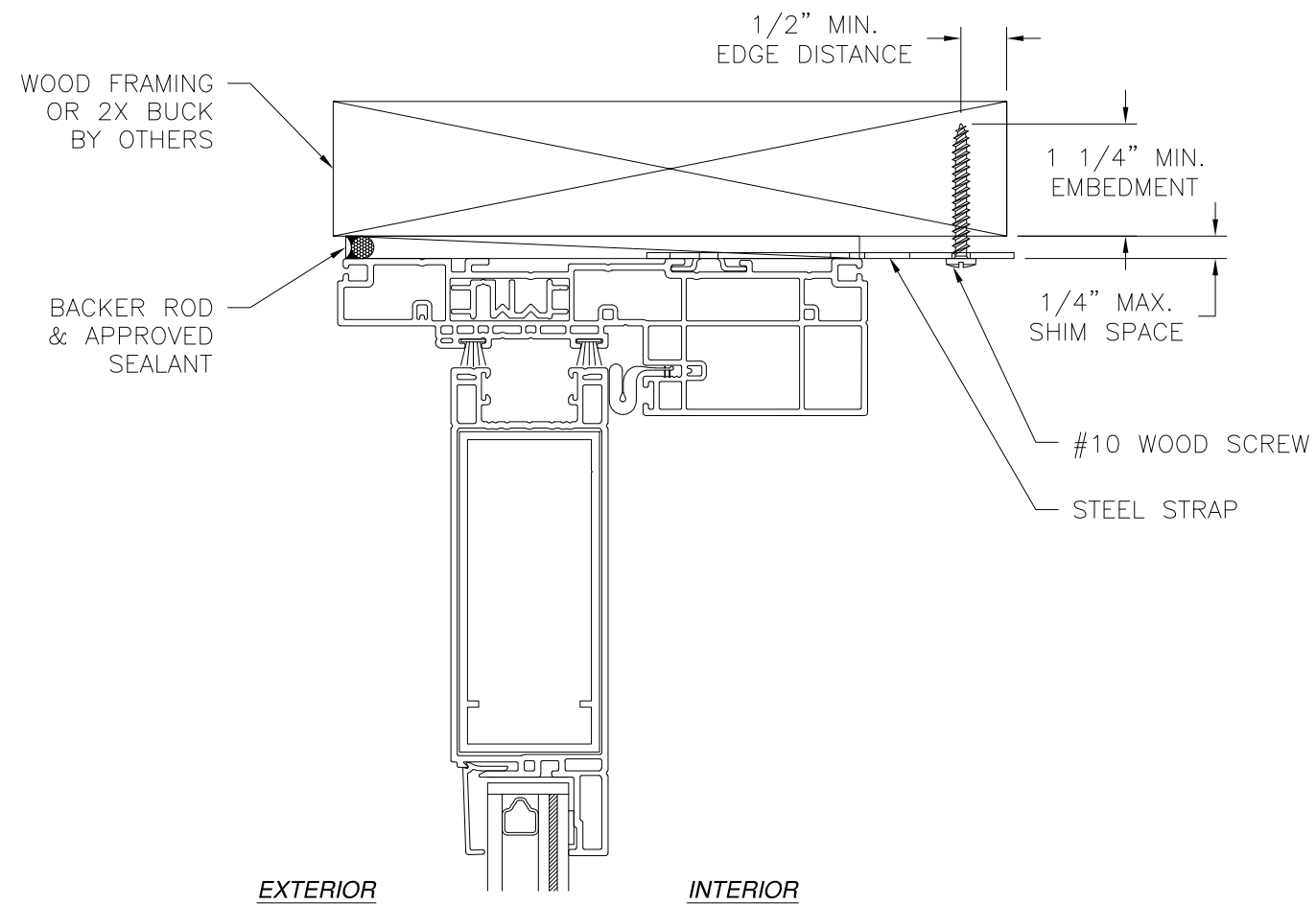
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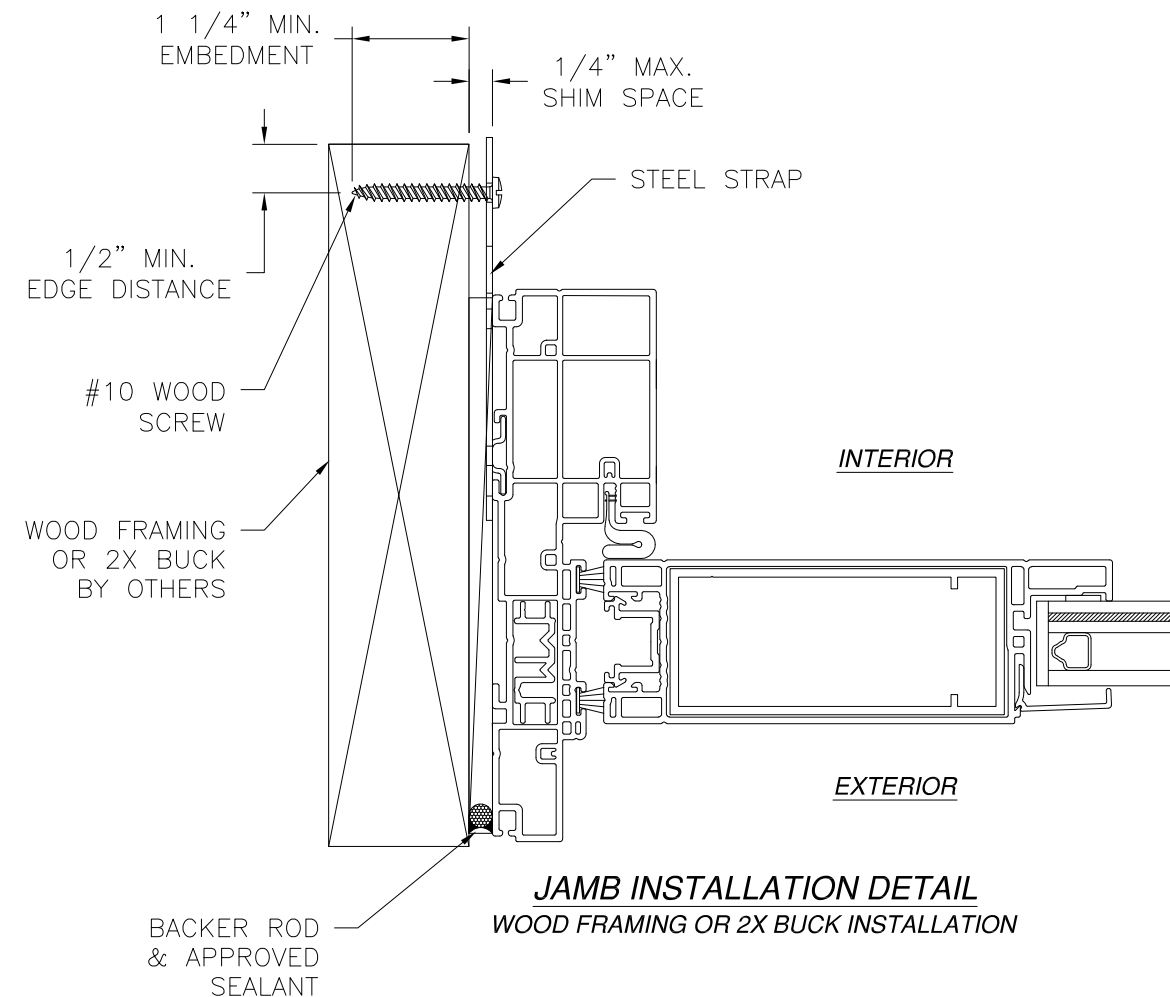


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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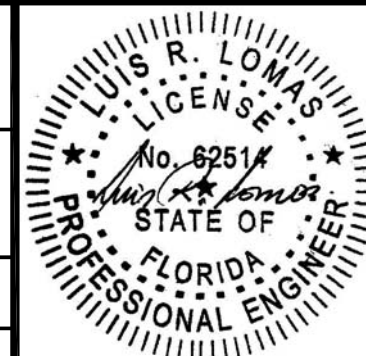
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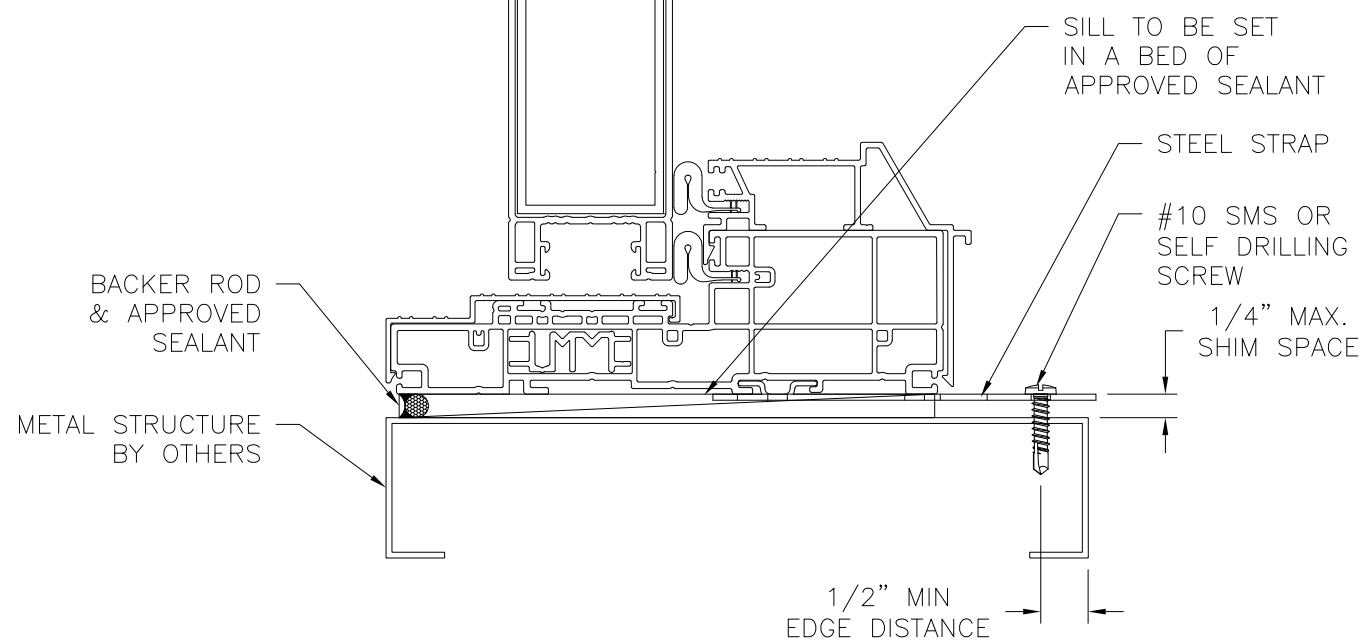
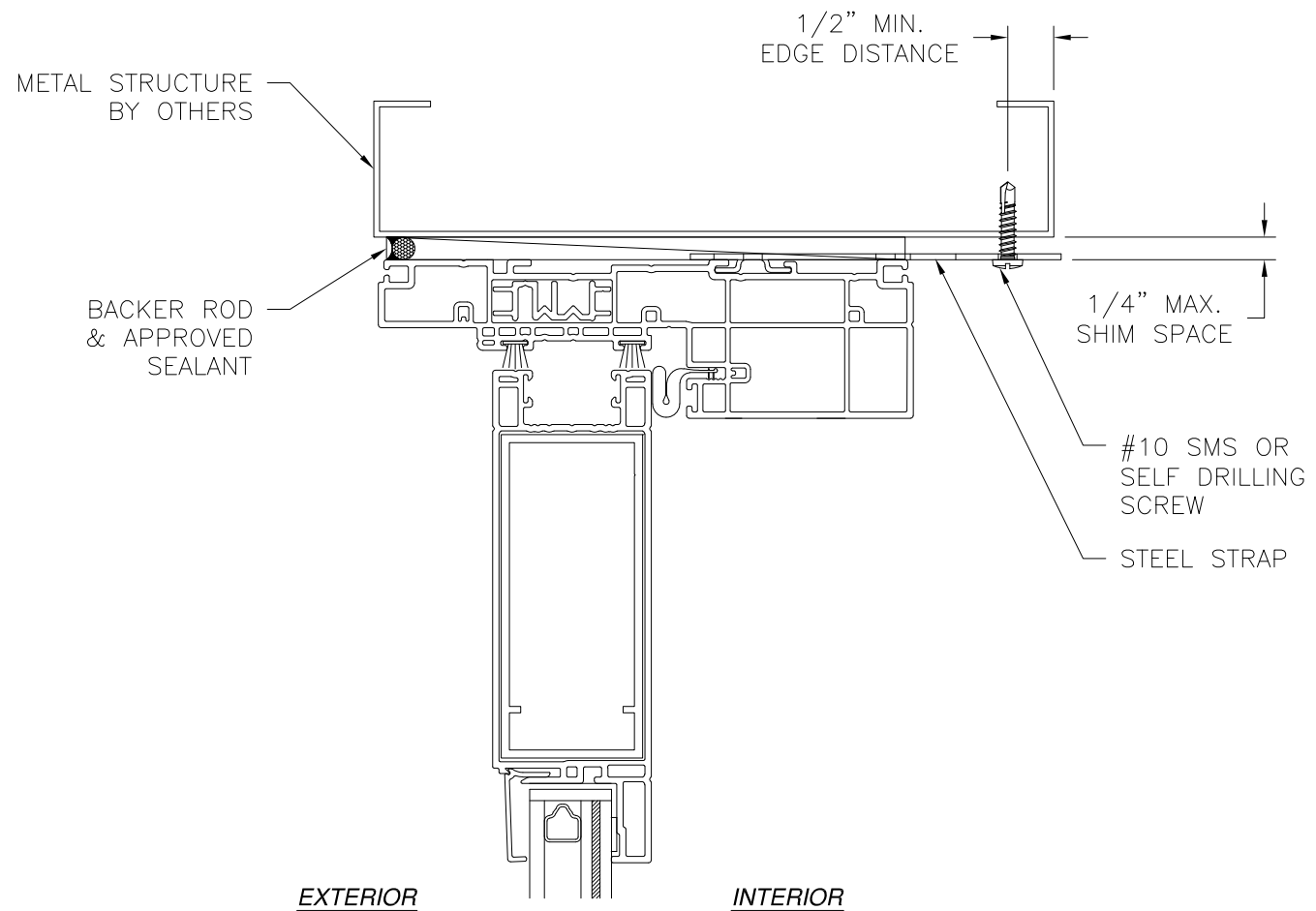
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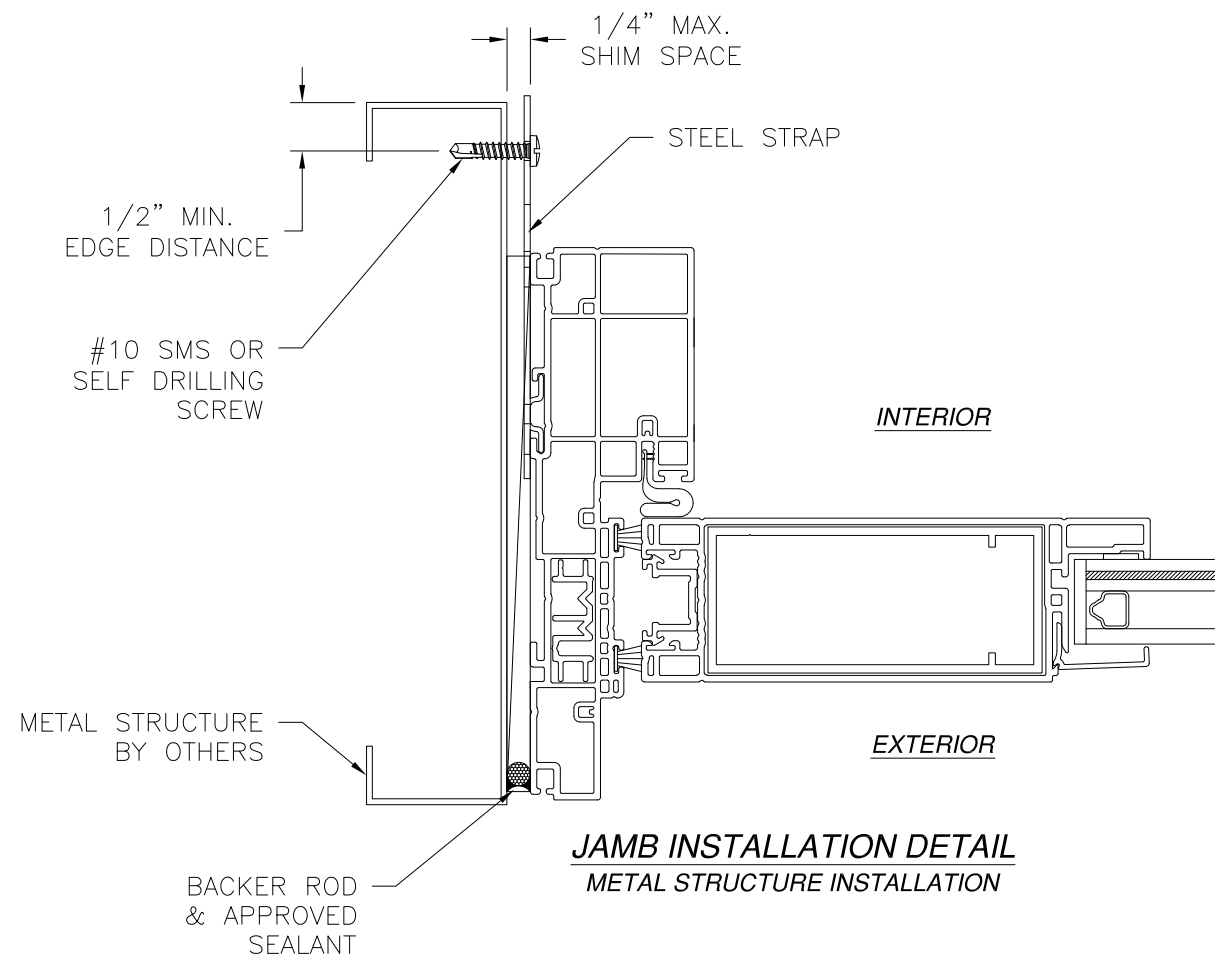
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



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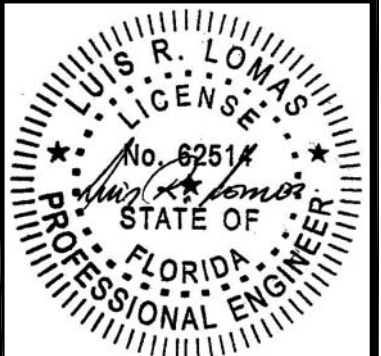
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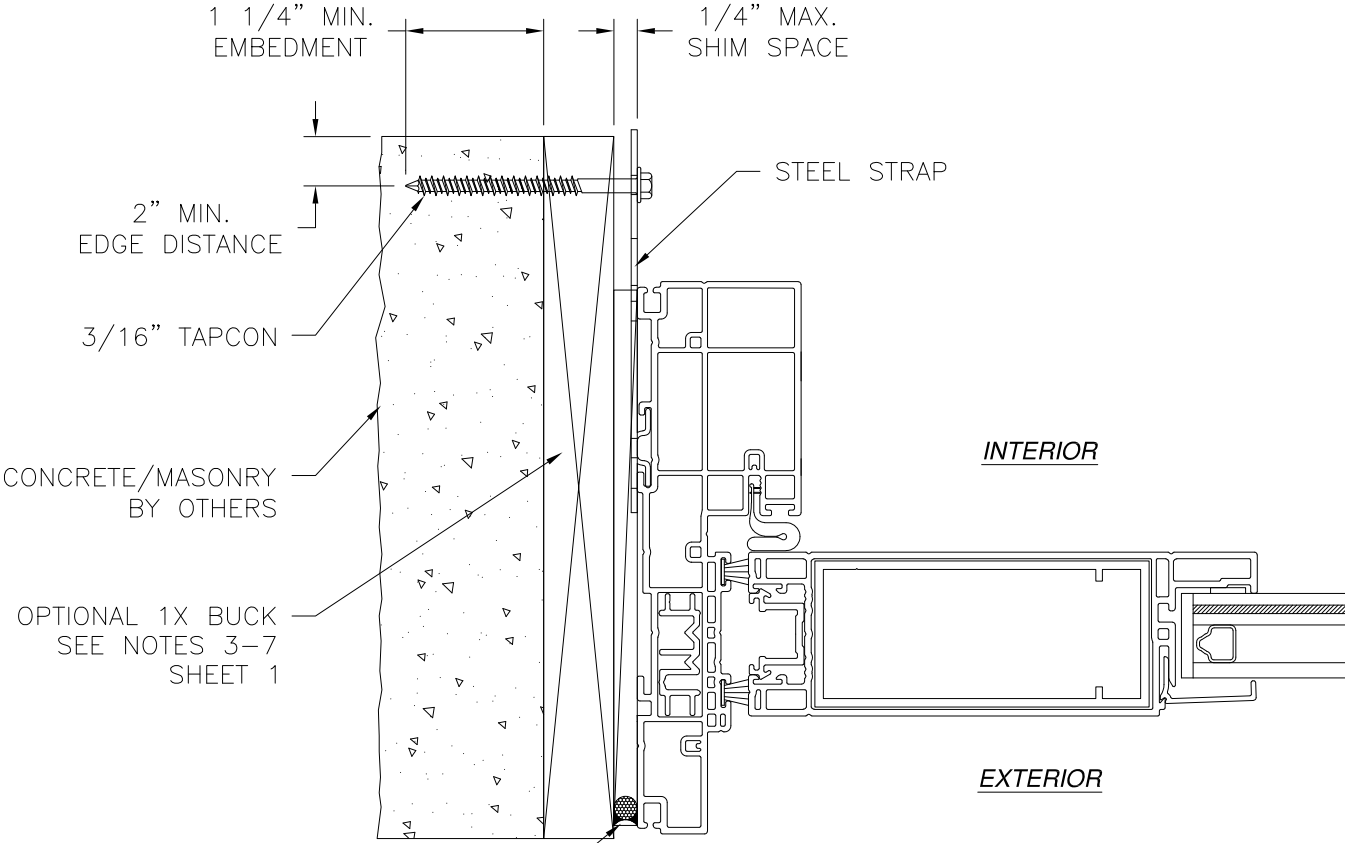
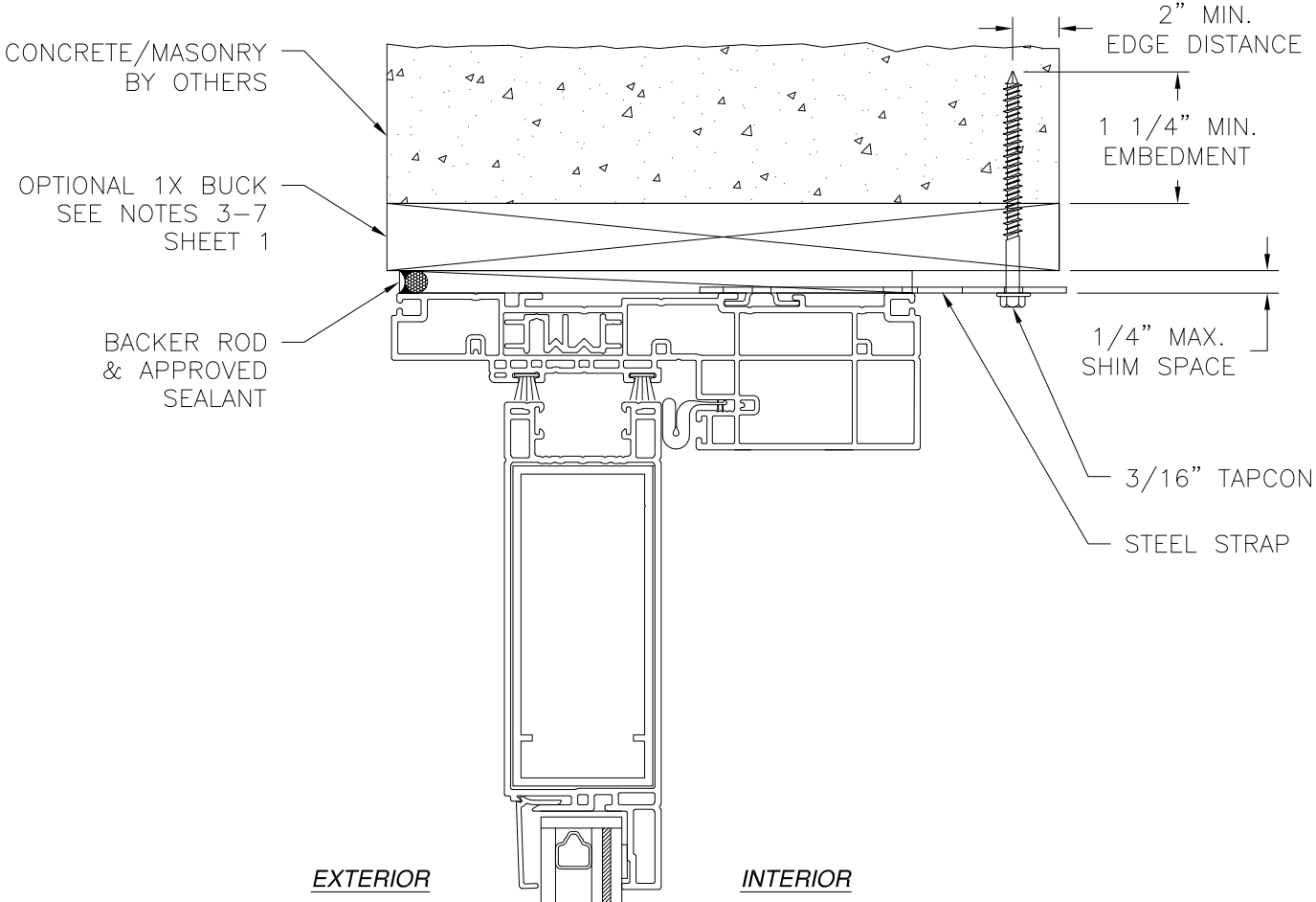
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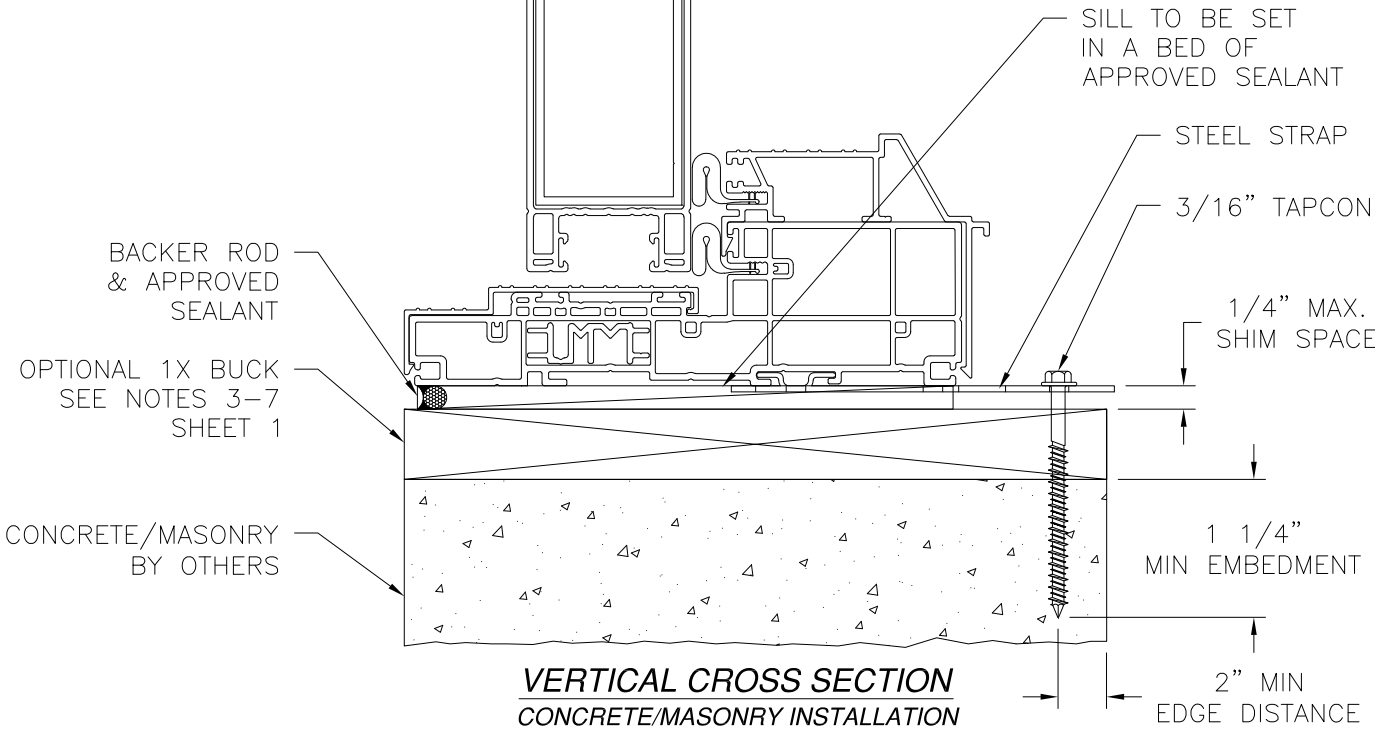
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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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CONCRETE/MASONRY INSTALLATION

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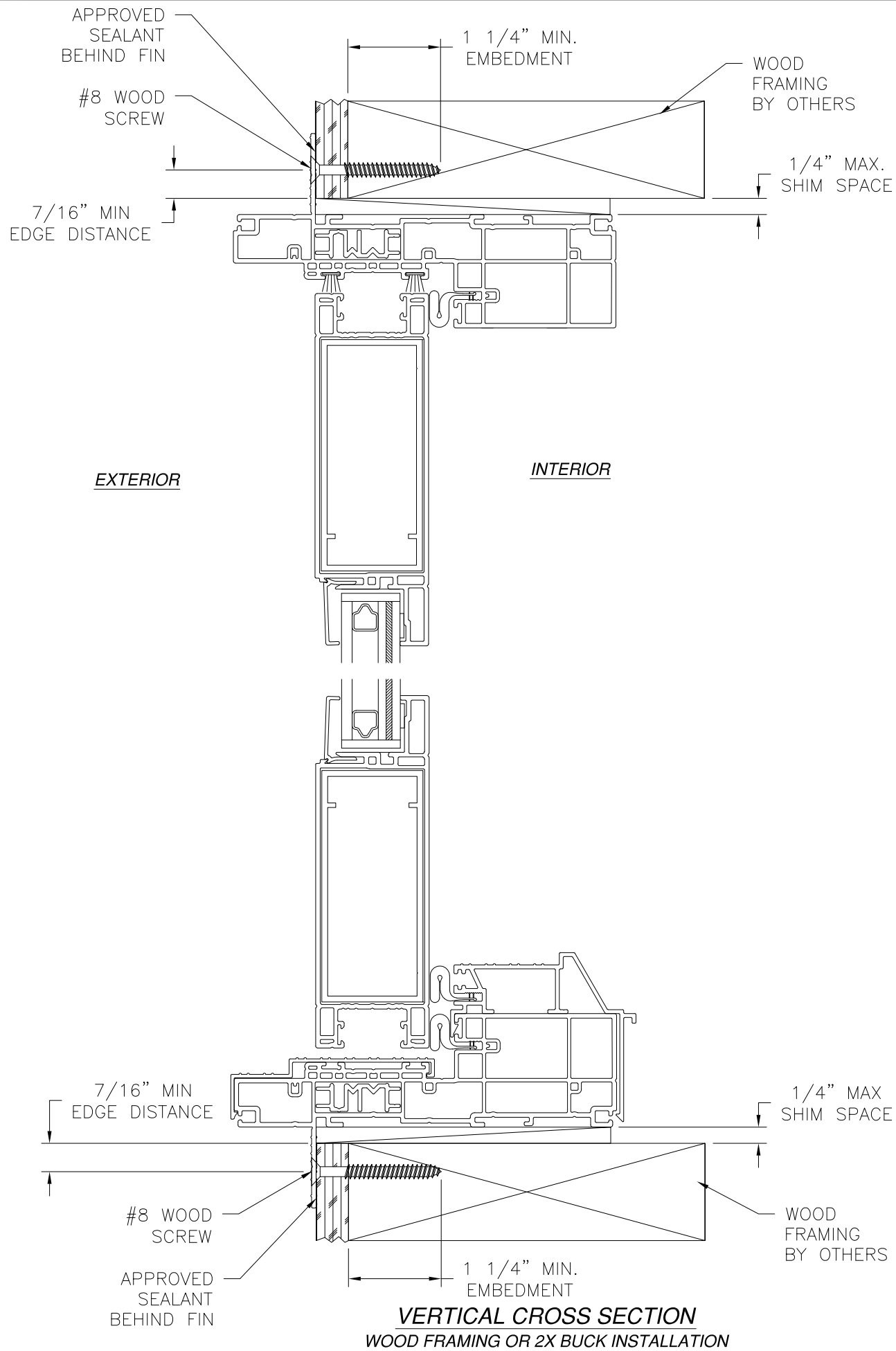
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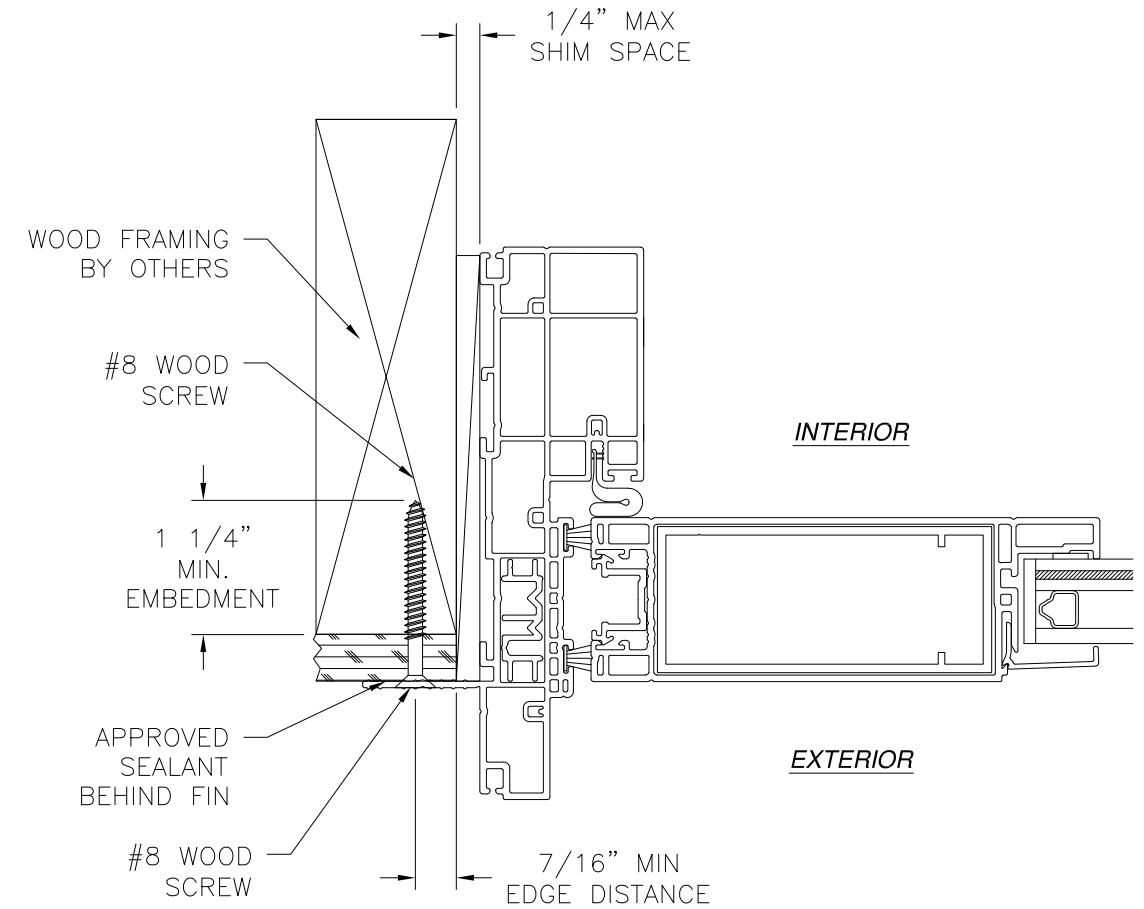
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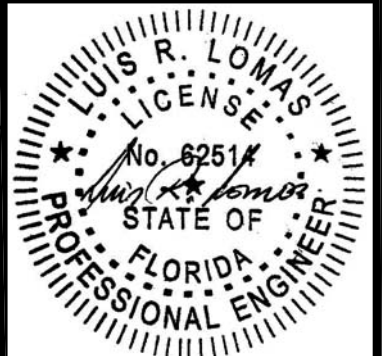
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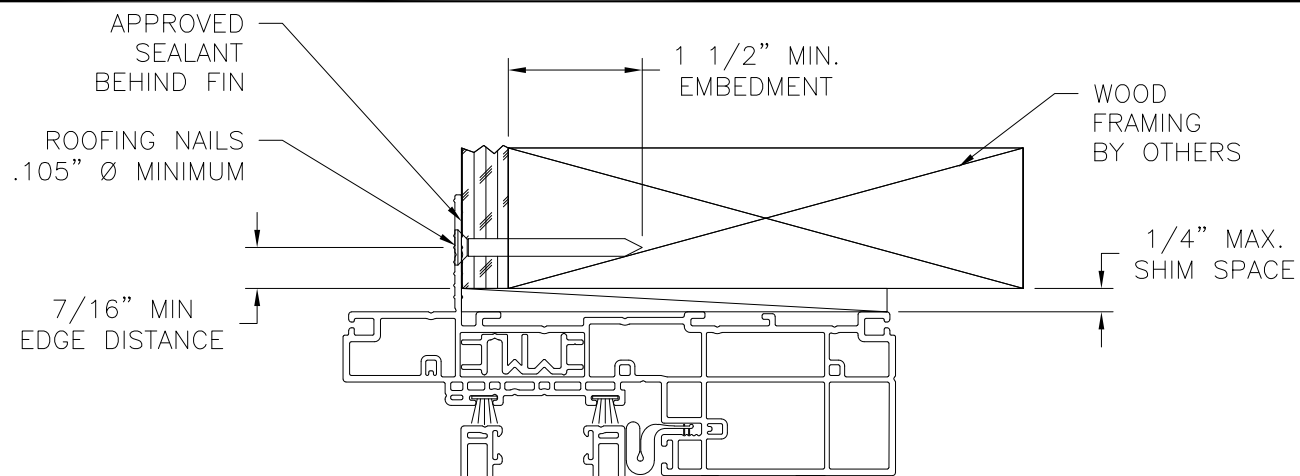
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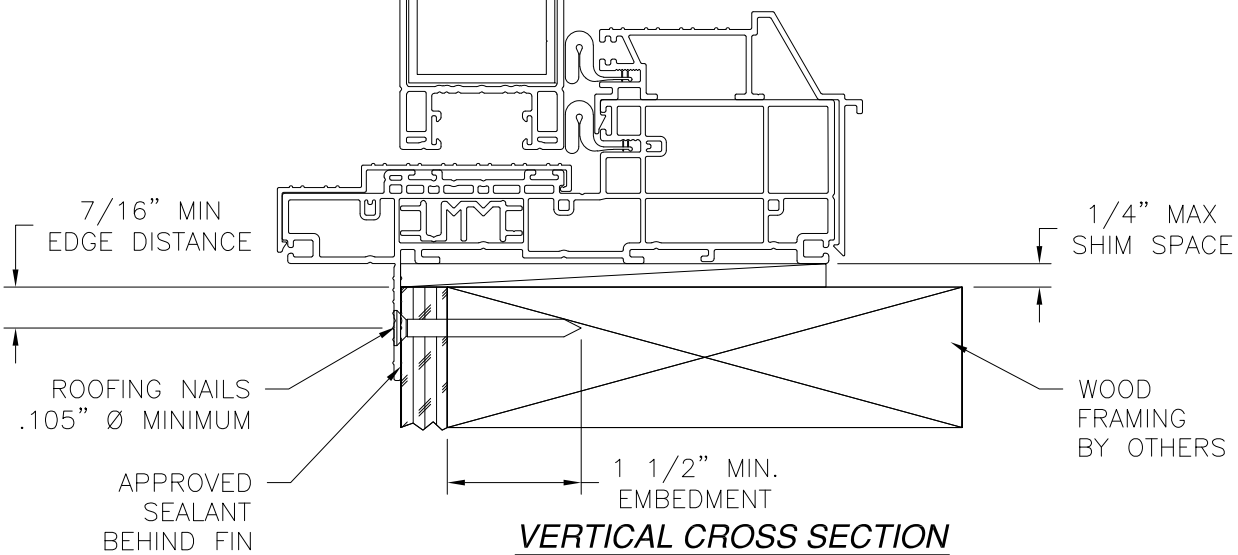


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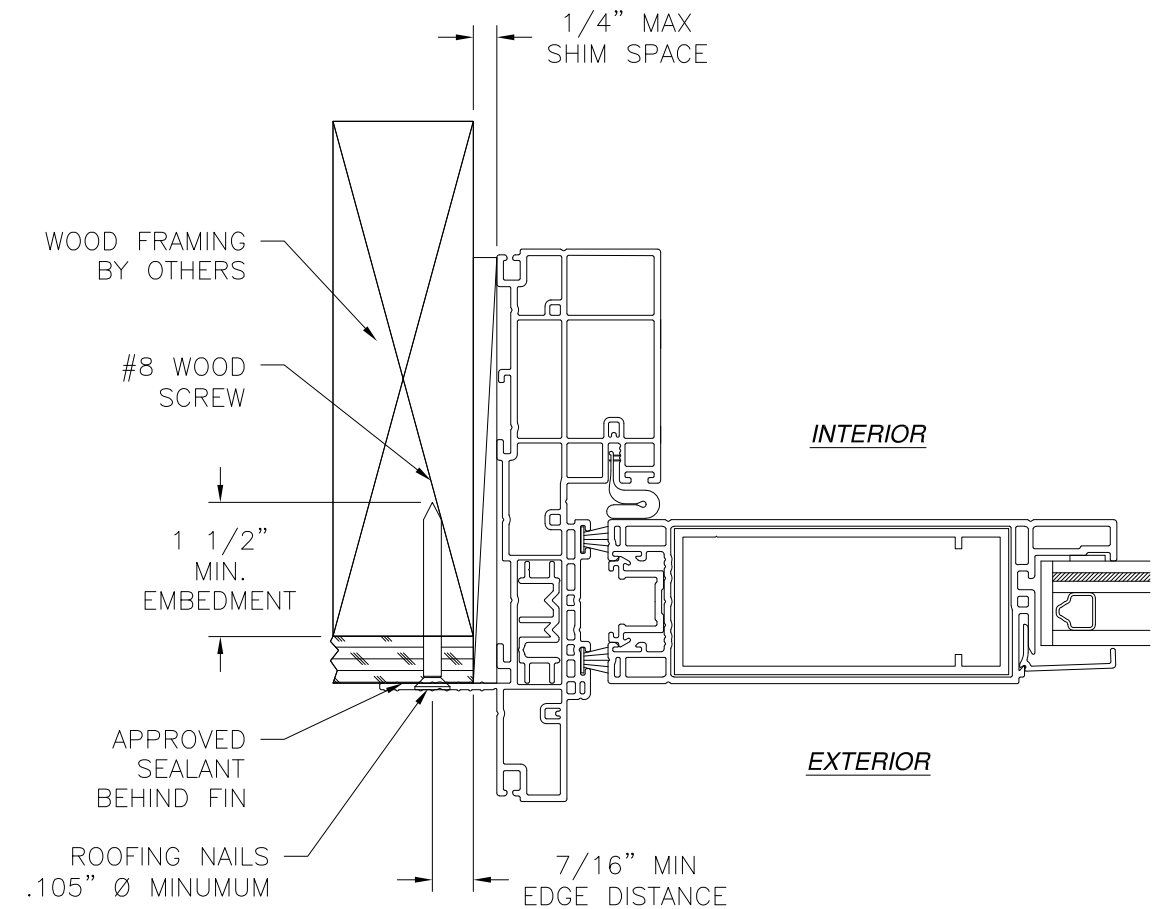
EXTERIOR

INTERIOR



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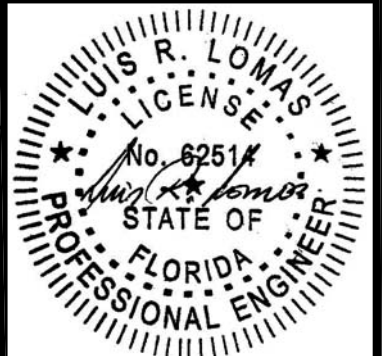
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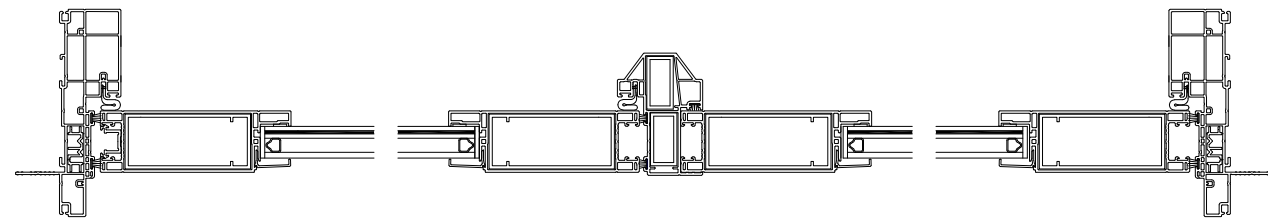
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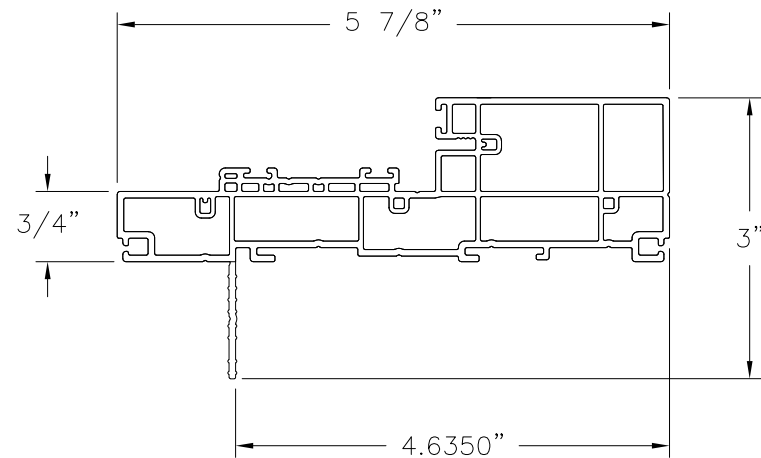
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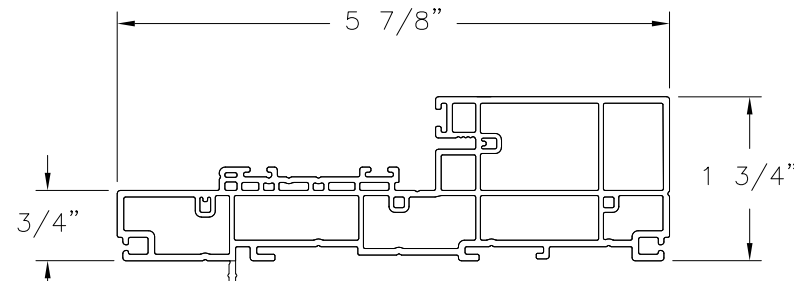
Luis R. Lomas P.E.
FL No.: 62514



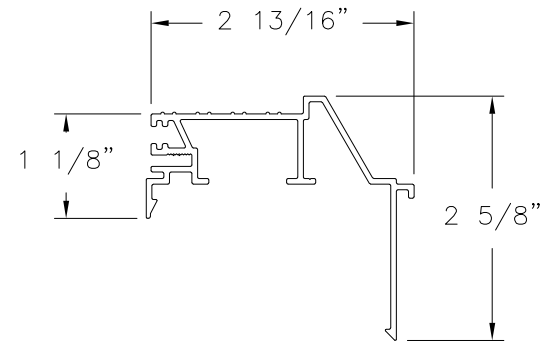
HORIZONTAL CROSS SECTION
FOR REFERENCE ONLY, SEE SHEETS 4 - 11 FOR INSTALLATION DETAILS



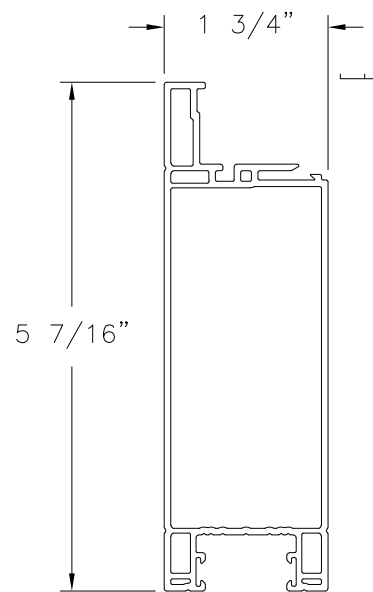
MAIN FRAME FIN
VINYL PVC (VM1220)



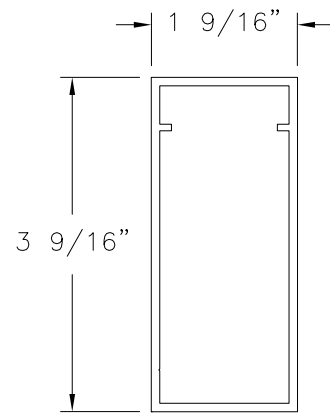
MAIN FRAME
VINYL PVC (VM1220)



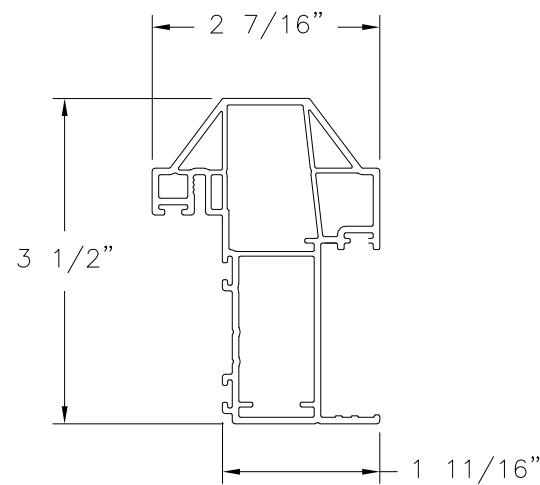
SILL RISER
ALUMINUM 6063-T5



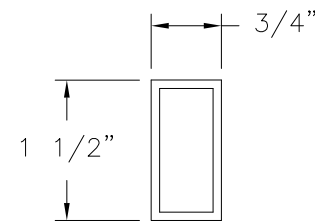
PANEL
VINYL PVC (VM1219)



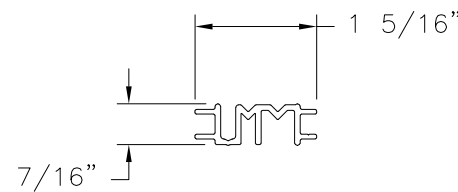
PANEL REINFORCEMENT
ALUMINUM 6063-T5



ASTRAGAL
VINYL PVC (VM1222)

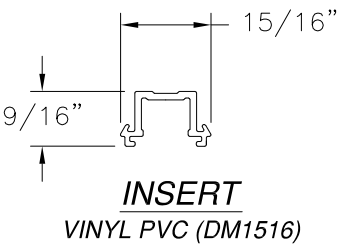


REINFORCEMENT
ALUMINUM 6063-T5

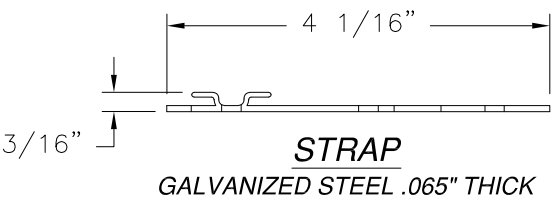


REINFORCEMENT
ALUMINUM 6063-T5

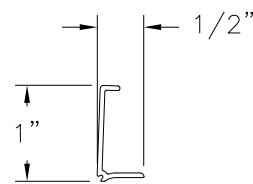
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/04/2020	R.L.
B	REVISED TO ADD HVHZ TESTING	02/22/2021	R.L.



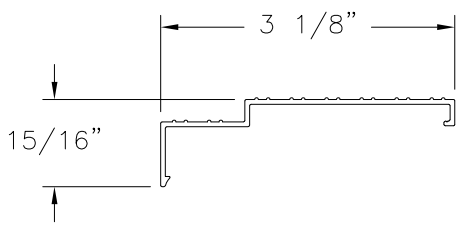
INSERT
VINYL PVC (DM1516)



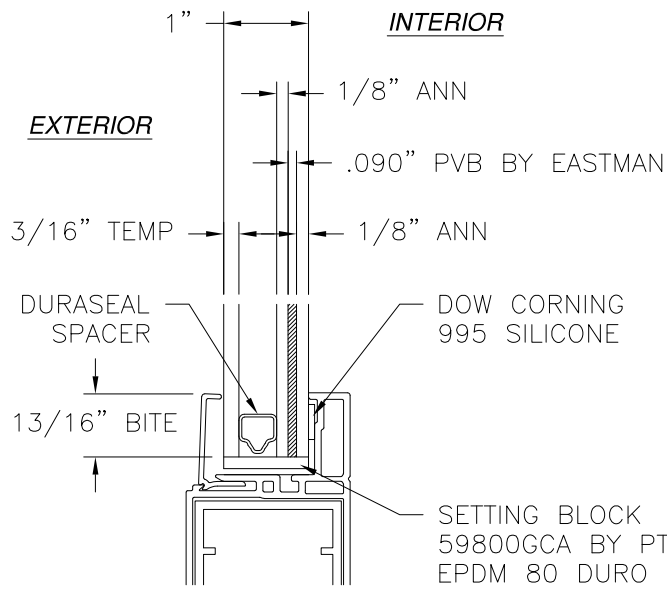
STRAP
GALVANIZED STEEL .065" THICK



GLAZING BEAD
VINYL PVC (DM-1441)



SILL RISER
ALUMINUM 6063-T5



GLAZING DETAIL

SIGNED: 02/23/2021

SHWINCO ARCHITECTURAL PRODUCTS, LLC.
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9800 VINYL HINGED PATIO DOOR
74" X 82" - IMPACT HVHZ
COMPONENTS

DRAWN: A.R.	DWG NO. 08-03585	REV B
SCALE NTS	DATE 07/15/2020	SHEET 11 OF 11

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

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LICENSED PROFESSIONAL ENGINEER
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