

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	01/31/2024	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, METAL STRUCTURE 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. 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.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #6 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 ANCHORING THROUGH FIN INTO METAL STRUCTURE USE #6 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.
15. FOR ANCHORING THROUGH FRAME 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.
16. FOR ANCHORING THROUGH FRAME 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.
17. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #8 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.
18. ALL FASTENERS TO BE CORROSION RESISTANT.
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:
 - 19.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 19.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - 19.3. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - 19.4. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI 1/8” THICK MINIMUM

SIGNED: 02/07/2024

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14	COMPONENTS

MI WINDOWS & DOORS, LLC.
650 WEST MARKET STREET
GRATZ, PA 17030–0370

SERIES 1620 SINGLE HUNG WINDOW REINFORCED
NON–IMPACT 52” X 63”
NOTES

DRAWN:
A.R.

DWG NO.
08–03751

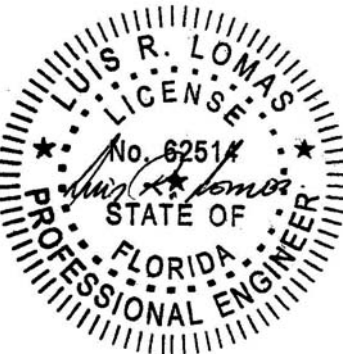
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SCALE NTS

DATE 07/26/2021

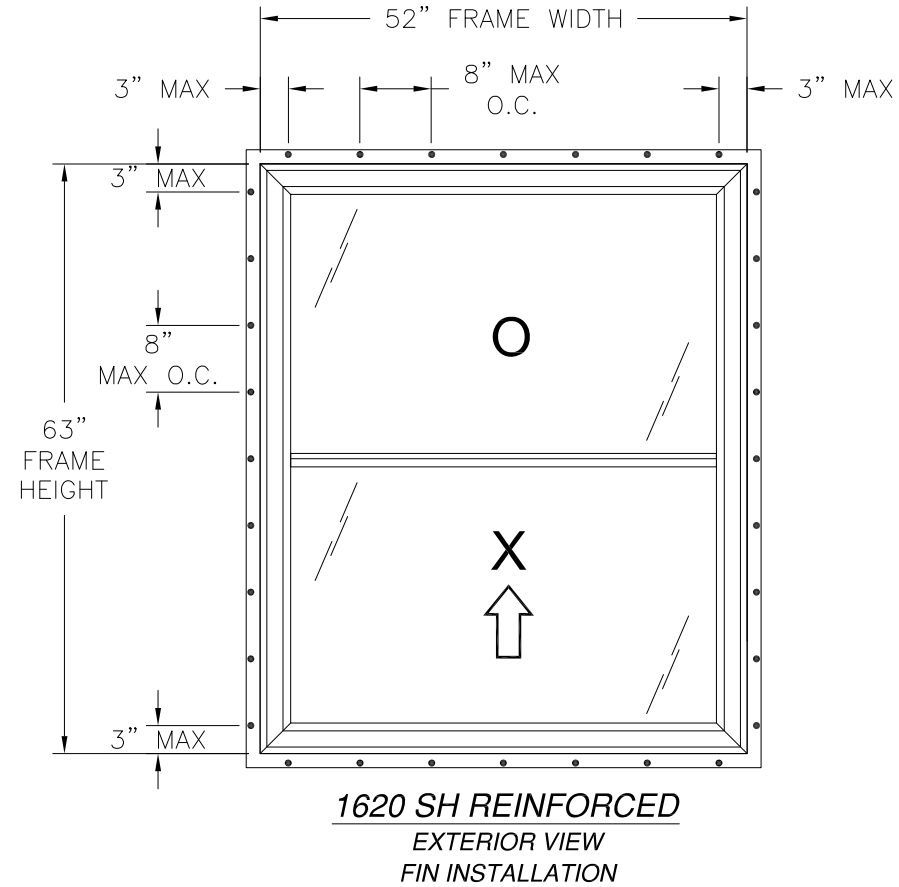
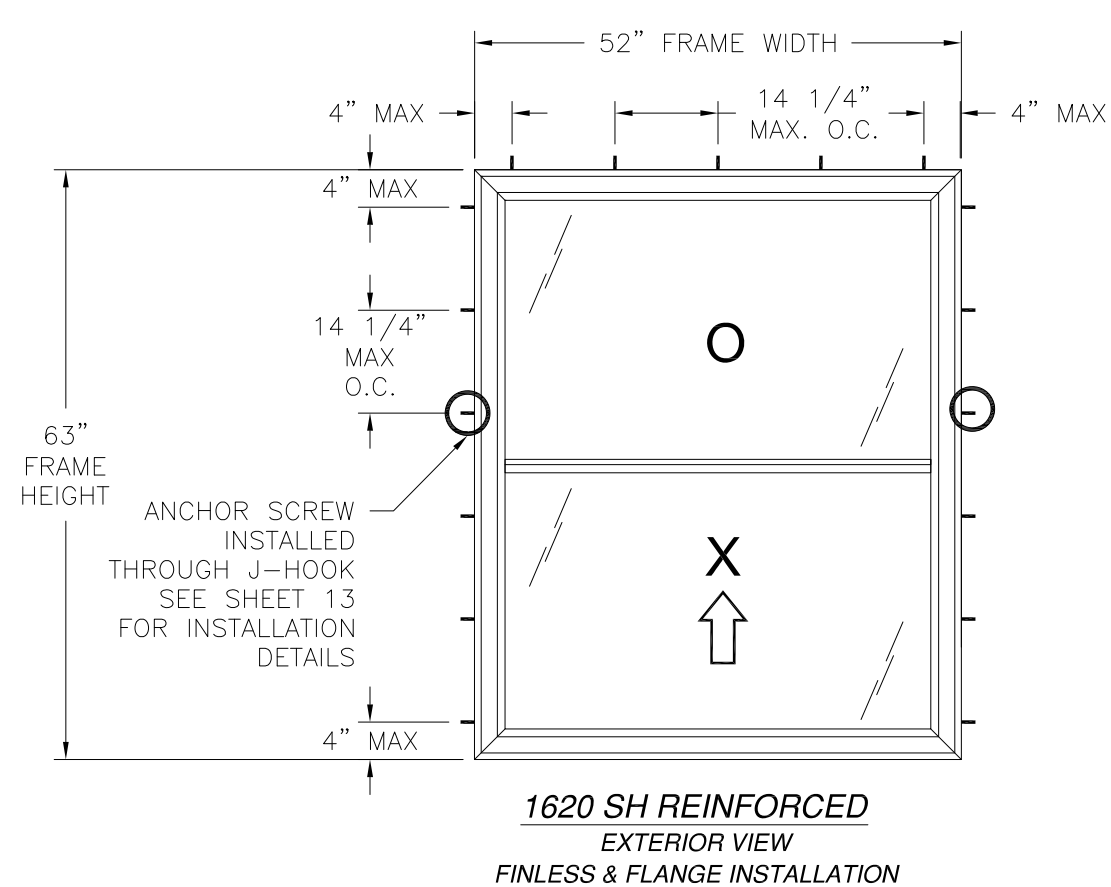
SHEET 1 OF 14

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



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WHERE WATER PENETRATION RESISTANCE IS REQUIRED	
DESIGN PRESSURE RATING	IMPACT RATING
+50.0/-63.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED	
DESIGN PRESSURE RATING	IMPACT RATING
+55.0/-63.0PSF	NONE

52" X 63" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS
FRAME AREA DOES NOT EXCEED 22.75 FT²

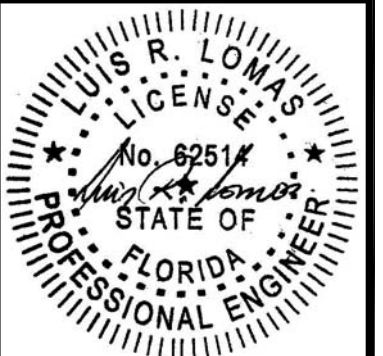
NOTES:

1. SASH SIZE: 49 1/2" X 31 1/4"
2. SASH D.L.O.: 46" X 27 3/4"
3. FOXED D.L.O.: 47 1/2" X 27 3/4"

HARDWARE SCHEDULE	
A.	(2) COMPOSITE CAM LOCK AT INTERIOR MEETING RAIL, 7" FROM EACH END
B.	(2) METAL TILT LATCH WITH J-HOOK AT EACH END OF INTERIOR MEETING RAIL
C.	(2) METAL PIVOT PIN AT SASH BOTTOM RAIL, ONE AT EACH END
D.	(2) CONSTANT FORCE BALANCES, ONE AT EACH JAMB
E.	(2) PVC RECESSED NIGHT LATCHES AT FIXED LITE STILES, 6" ABOVE FIXED MEETING RAIL
F.	ALUMINUM REINFORCEMENT (M-2343) AT FIXED MEETING RAIL
G.	ALUMINUM REINFORCEMENT (M-2115) AT INTERIOR MEETING RAIL
H.	ALUMINUM REINFORCEMENT (M-2266) AT SASH STILES

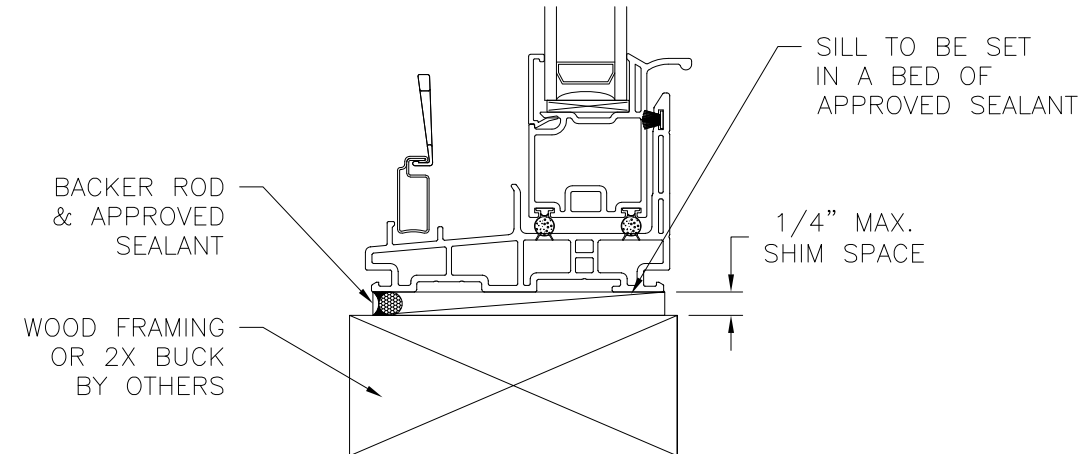
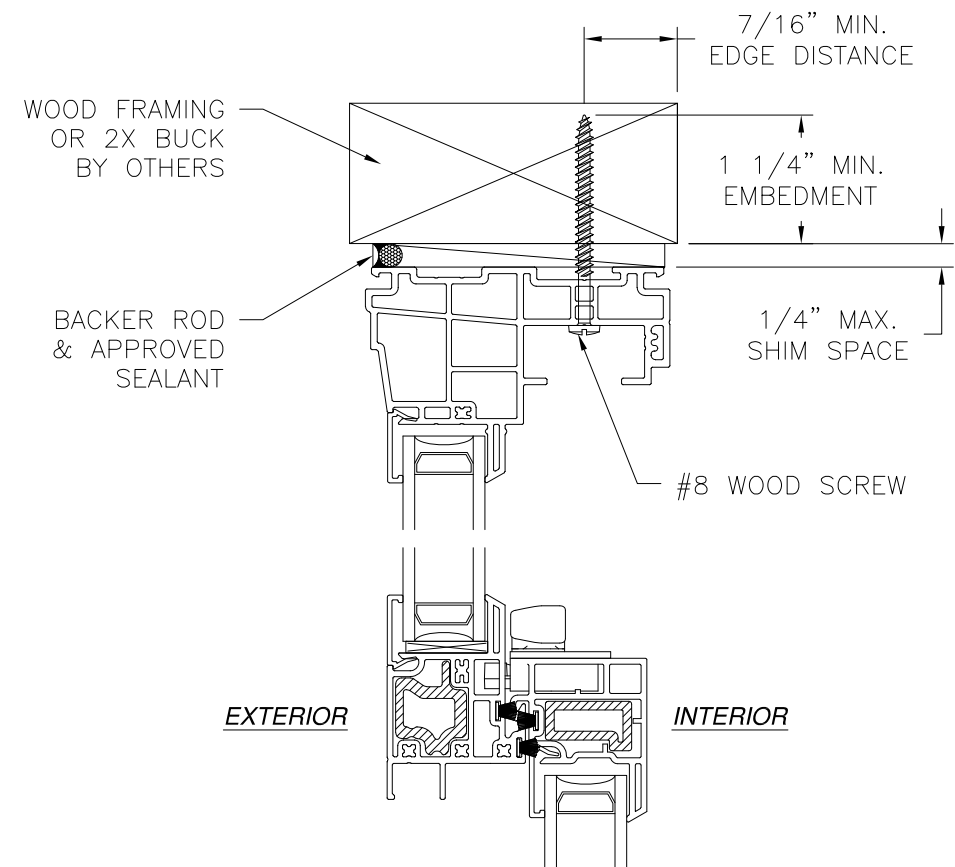
MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620 SINGLE HUNG WINDOW REINFORCED NON-IMPACT 52" X 63" ELEVATIONS		
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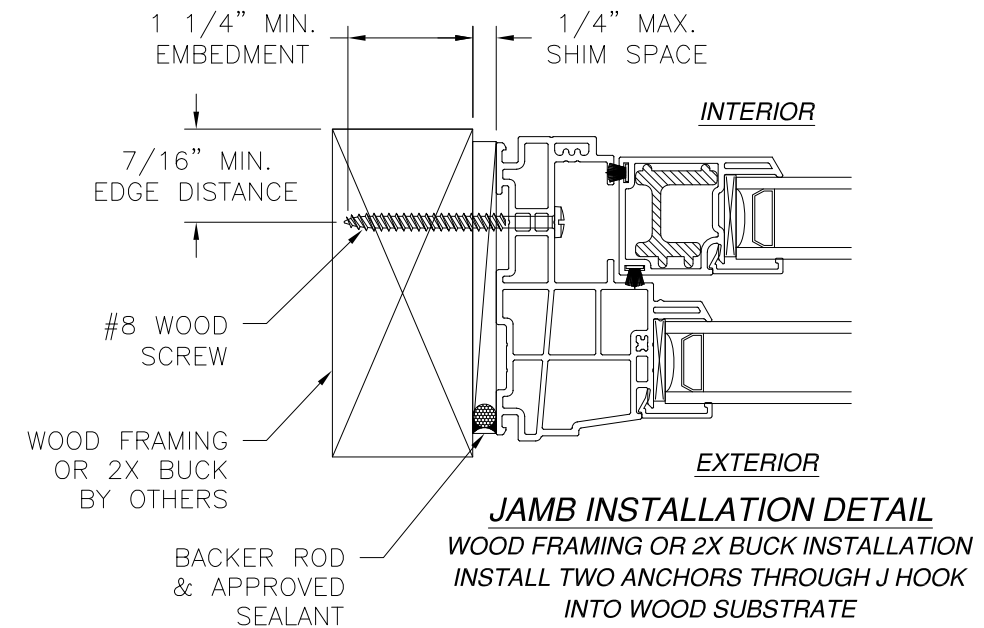
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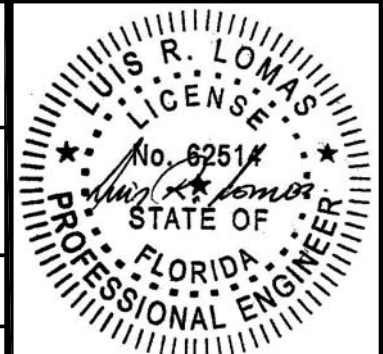
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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



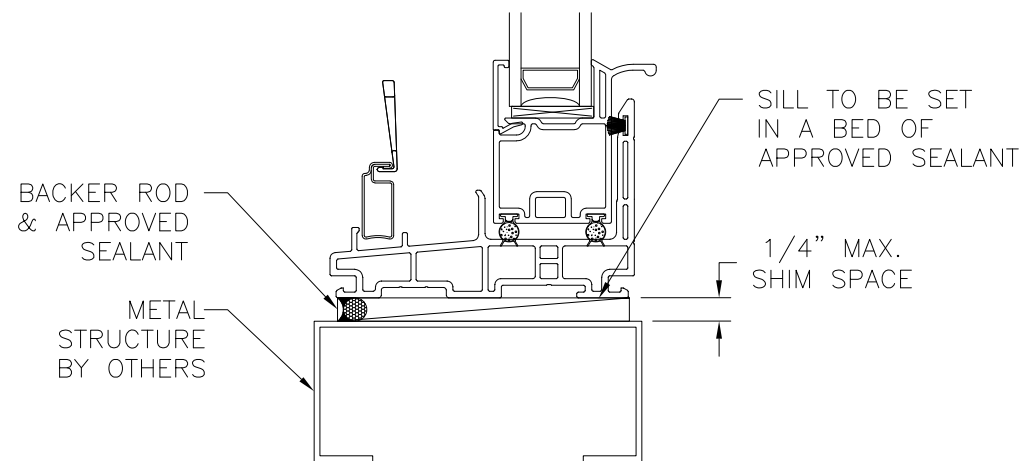
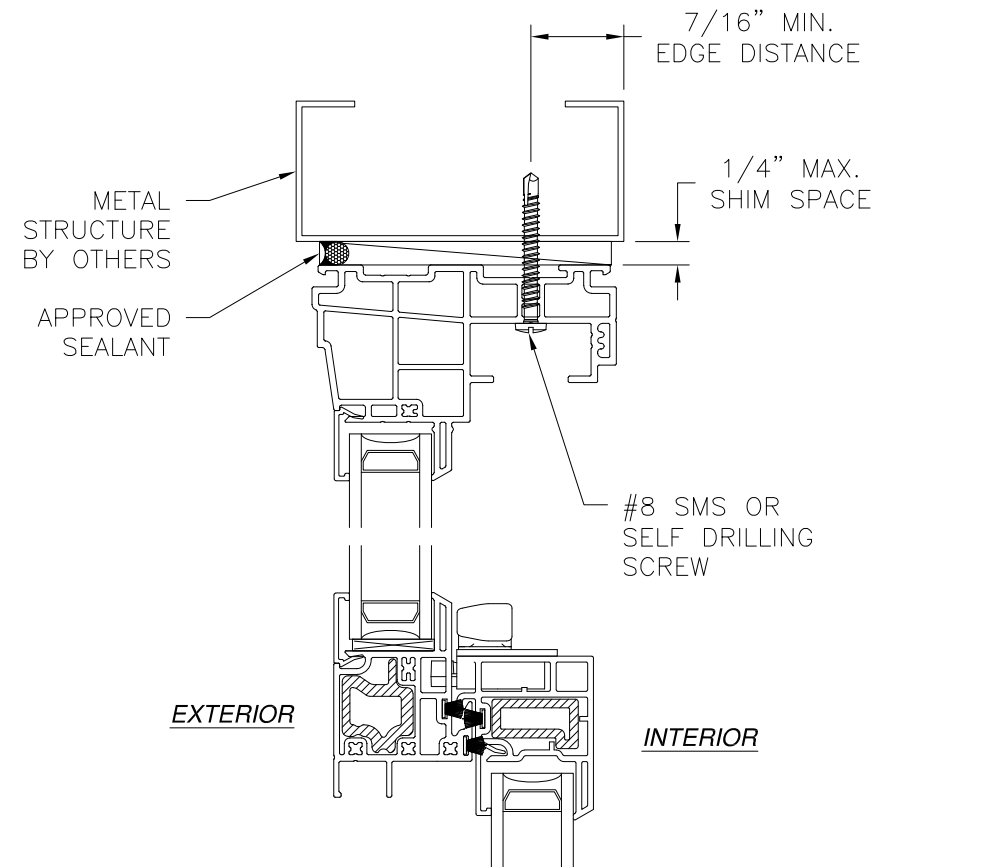
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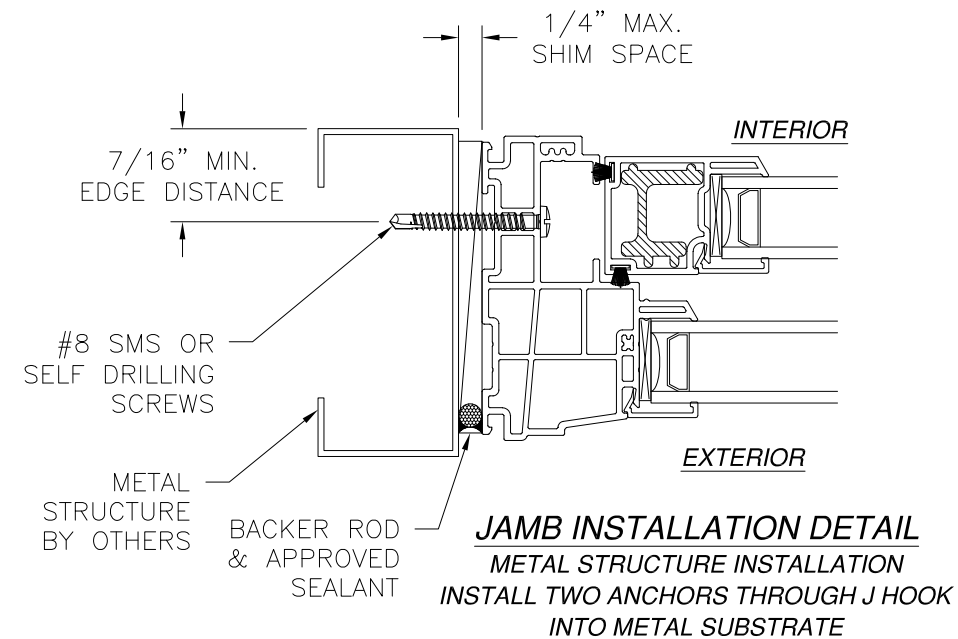


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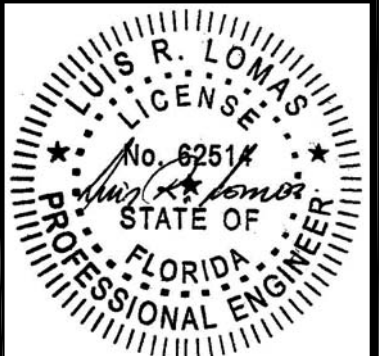
VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



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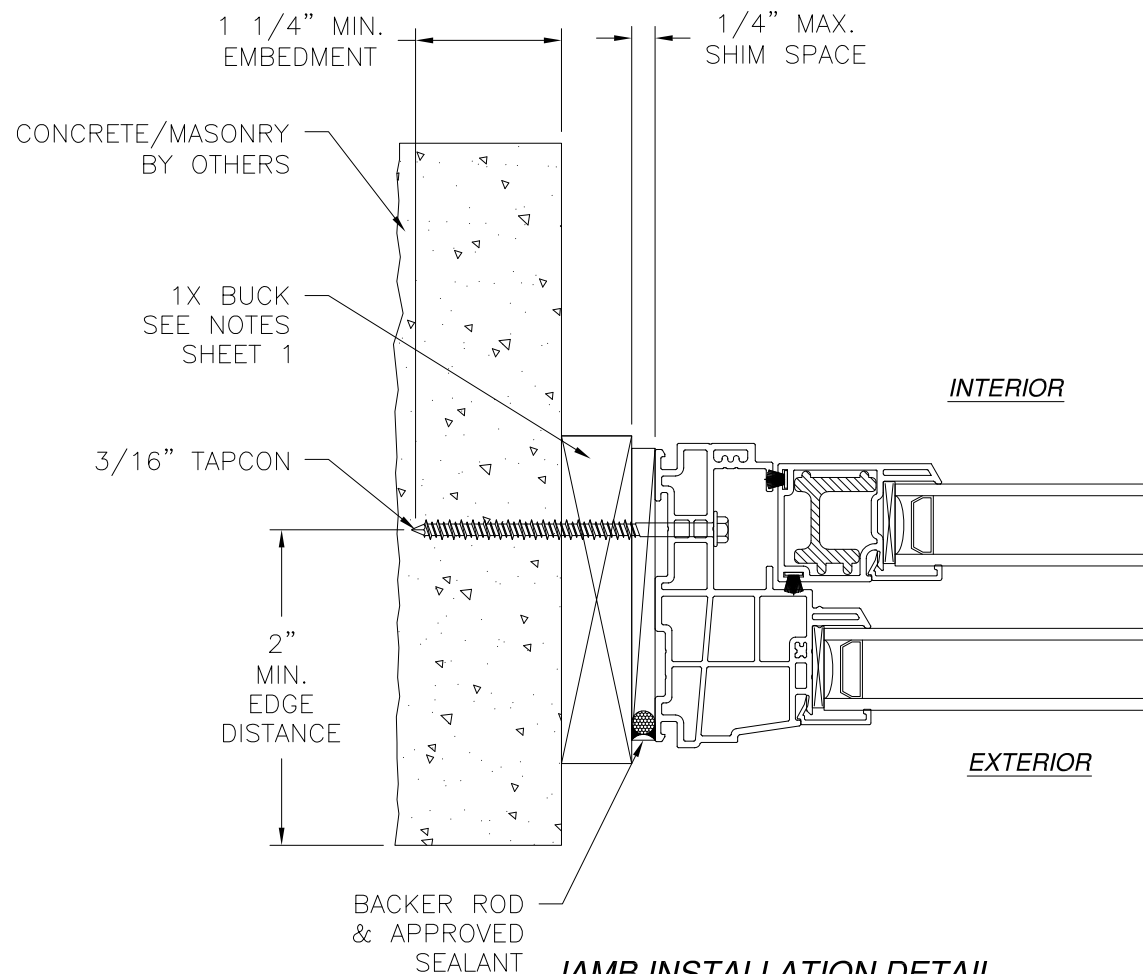
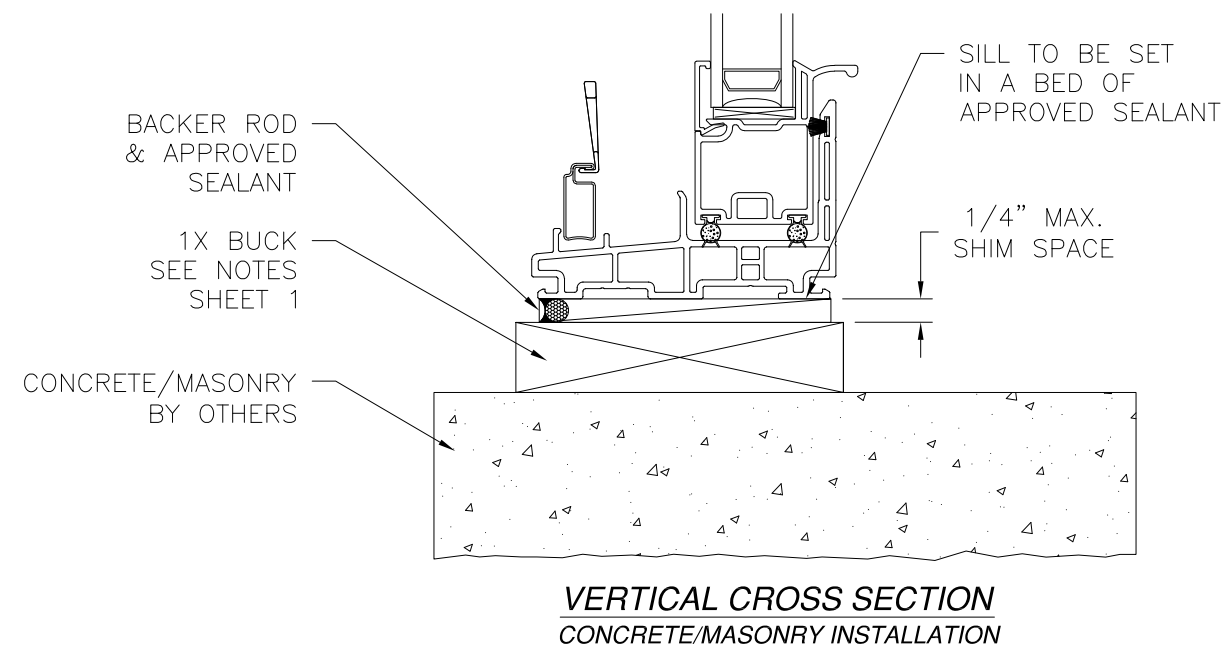
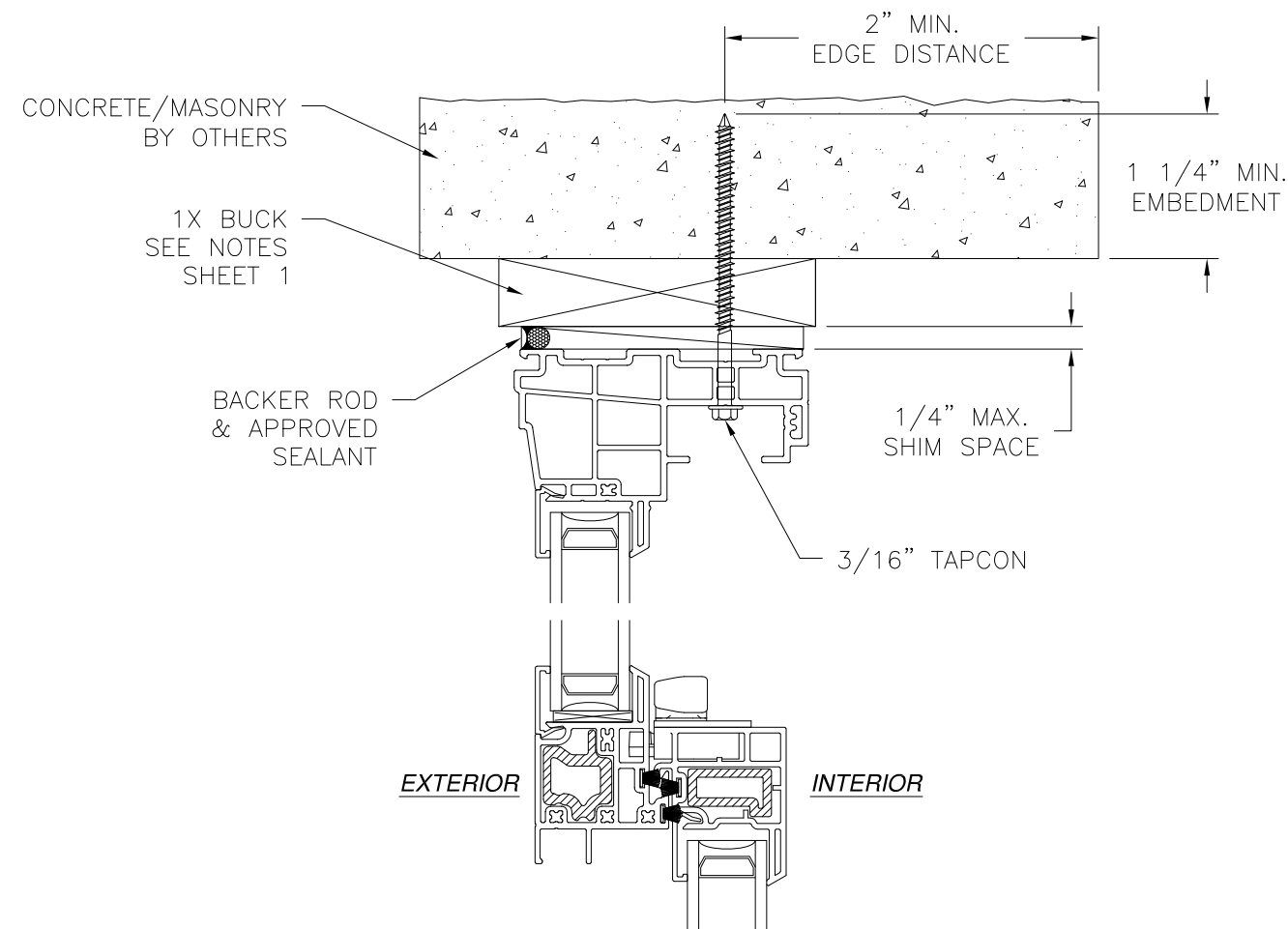
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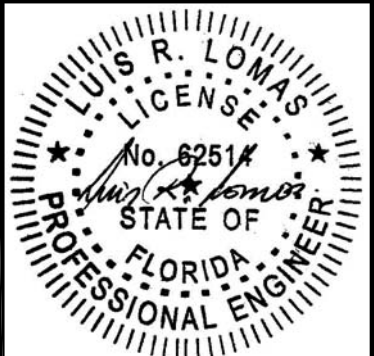


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION
INSTALL ONE ANCHOR THROUGH J HOOK
INTO MASONRY SUBSTRATE

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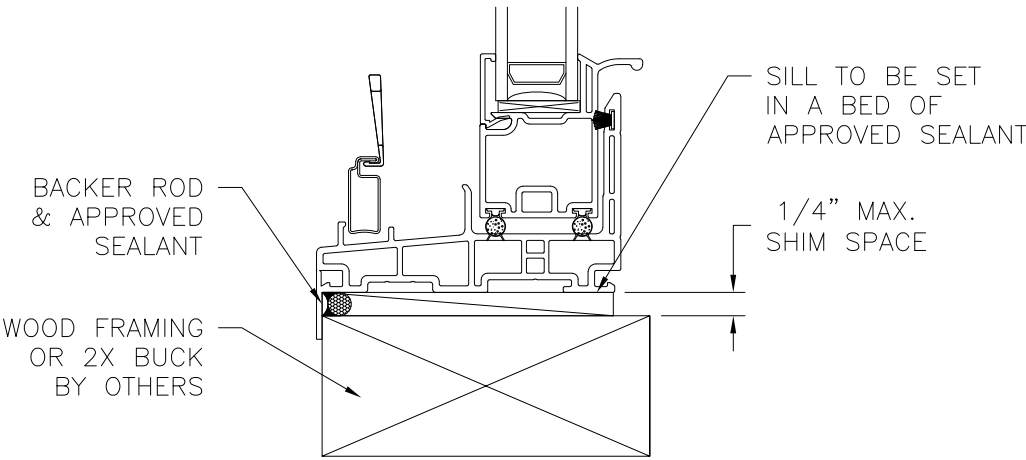
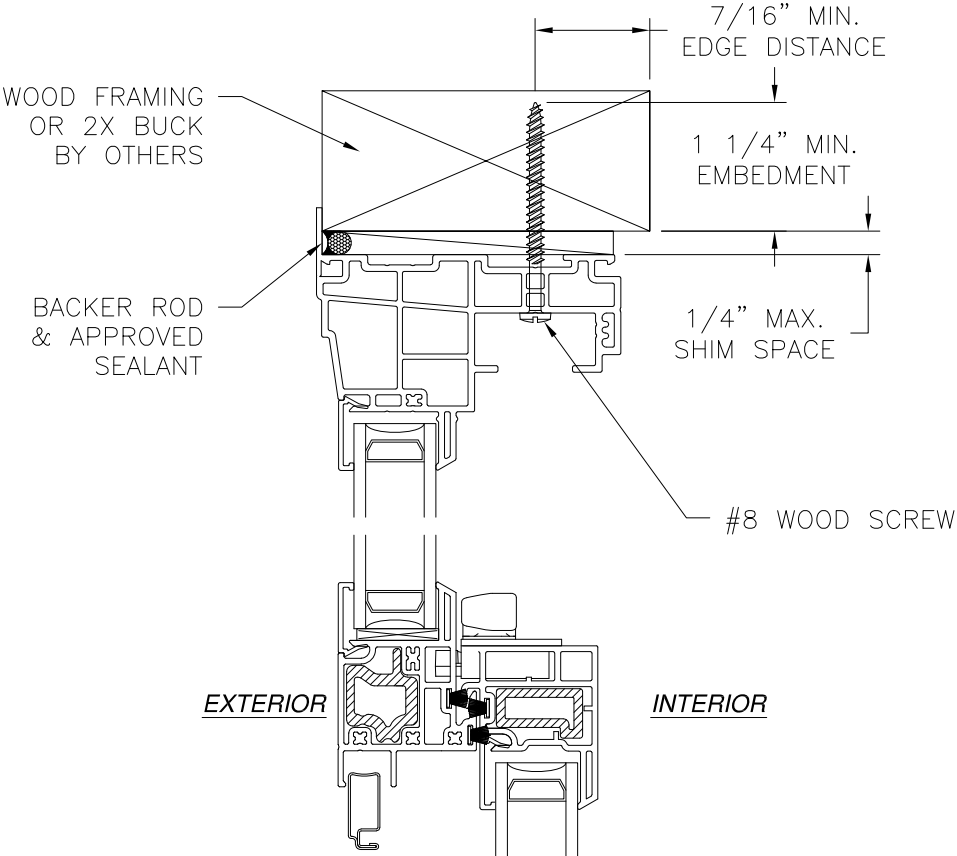
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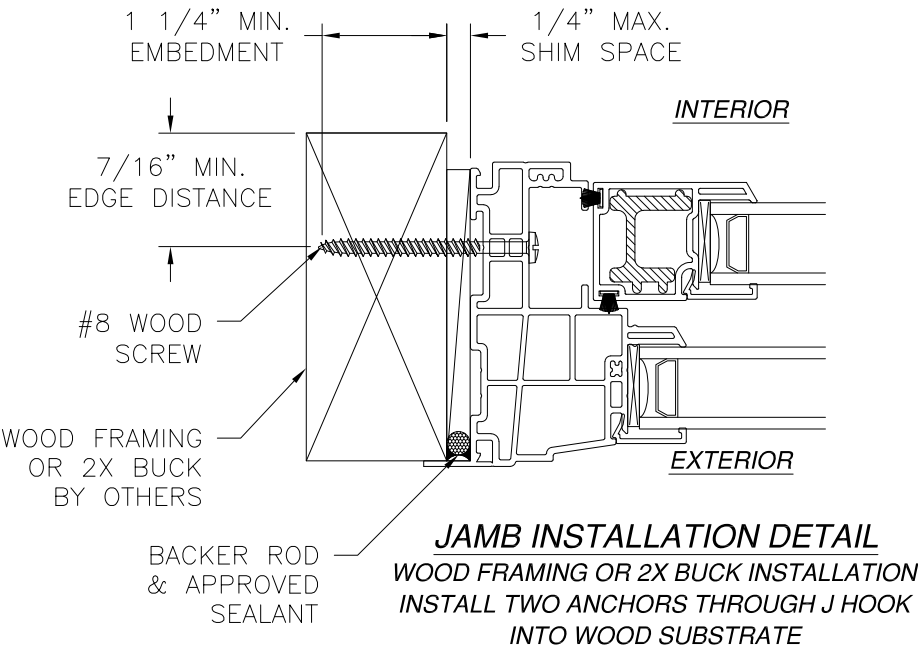
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION
INSTALL TWO ANCHORS THROUGH J HOOK INTO WOOD SUBSTRATE

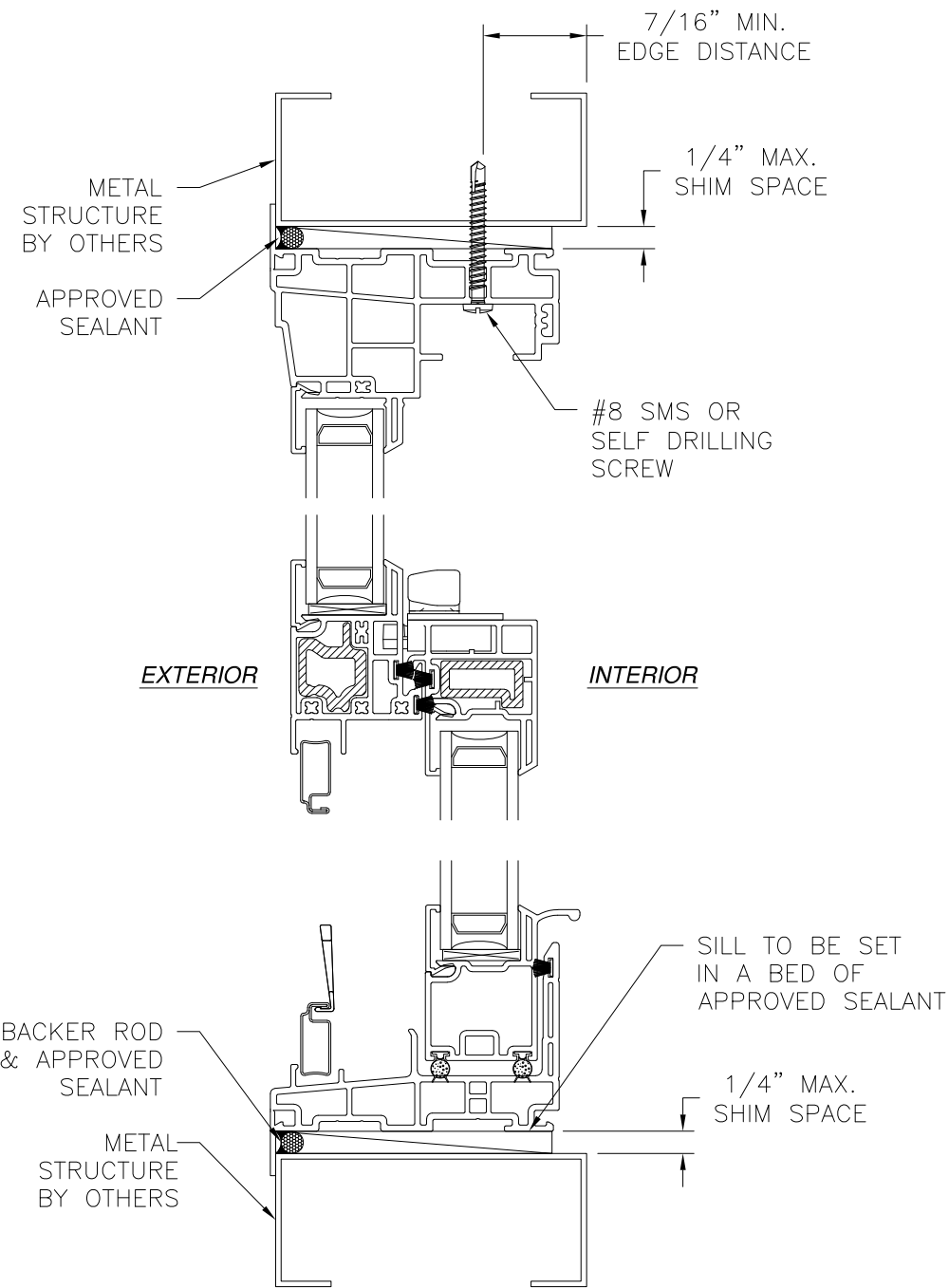
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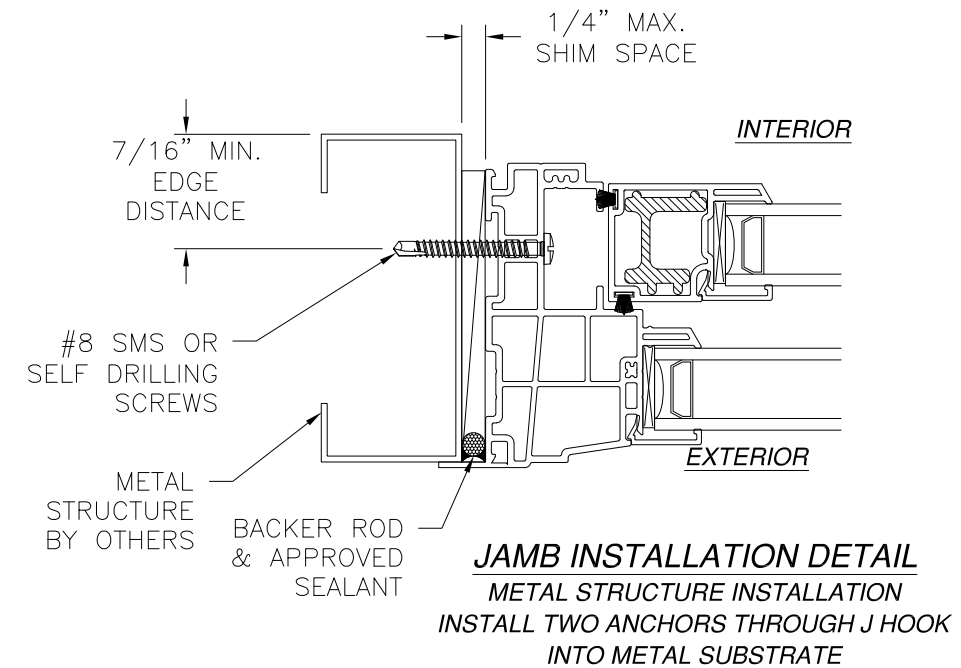


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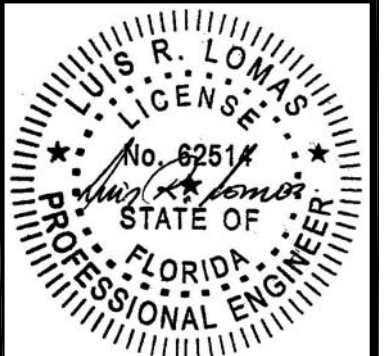
VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



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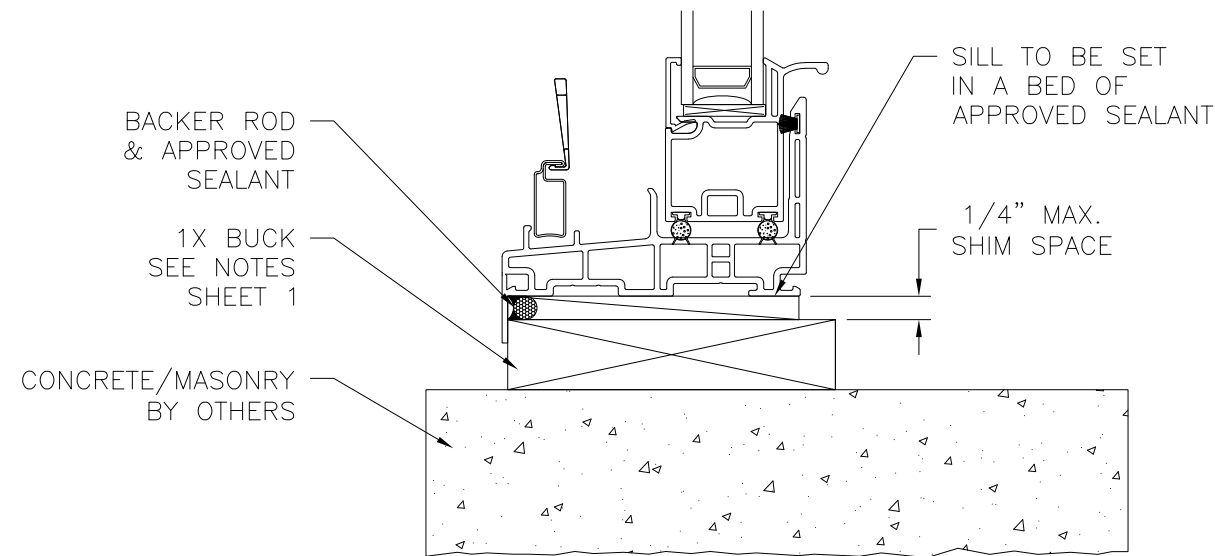
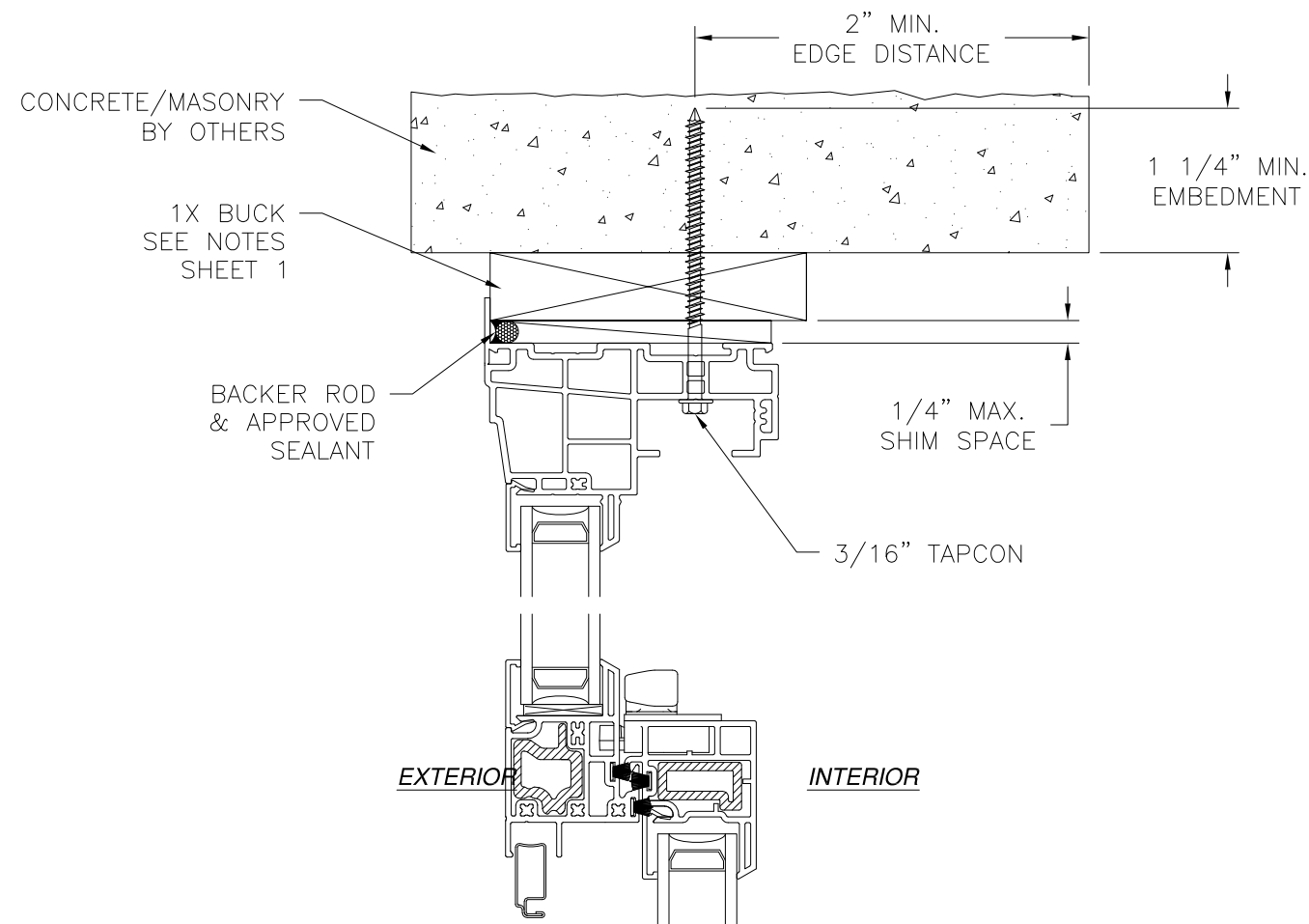
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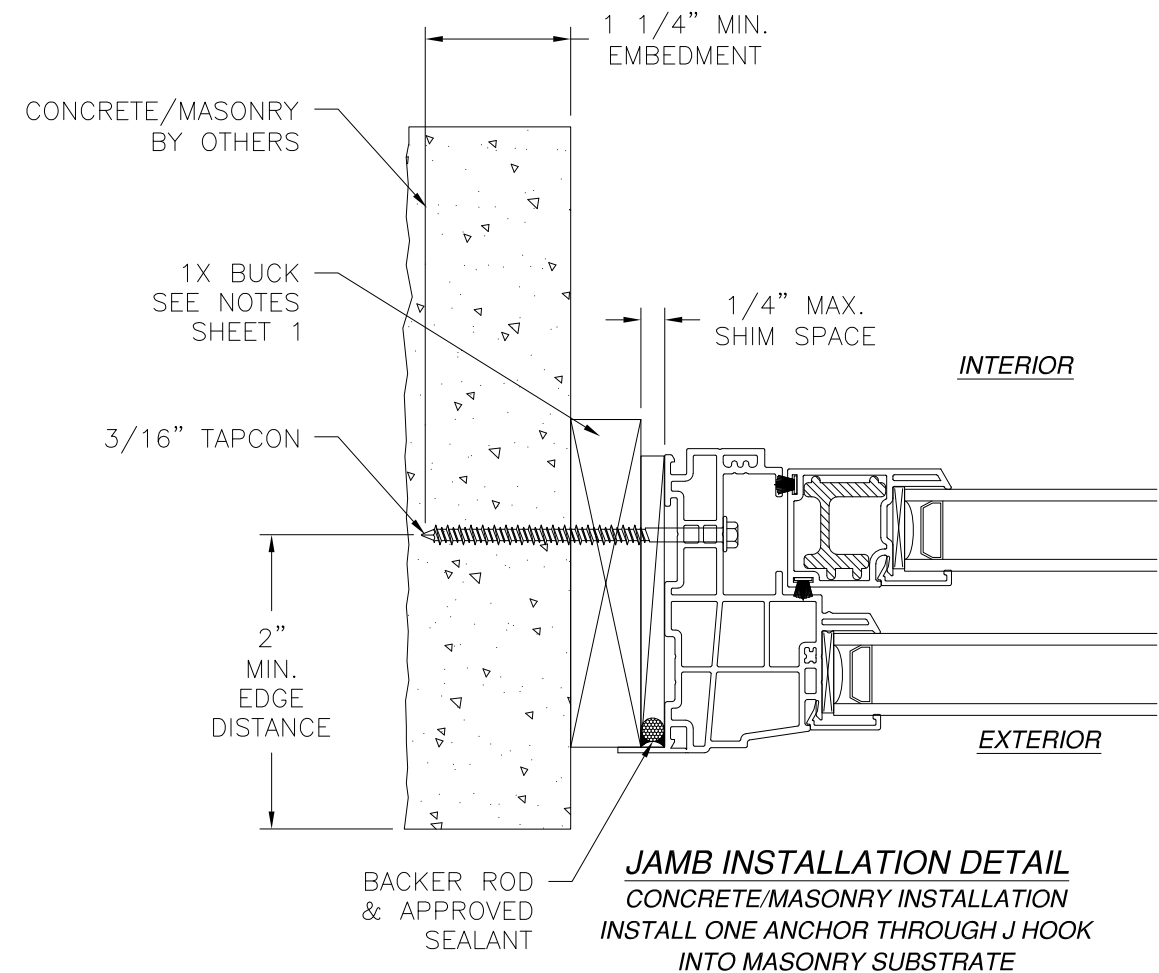
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

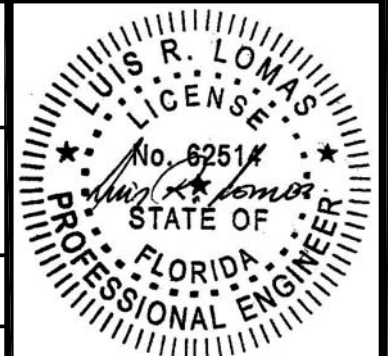
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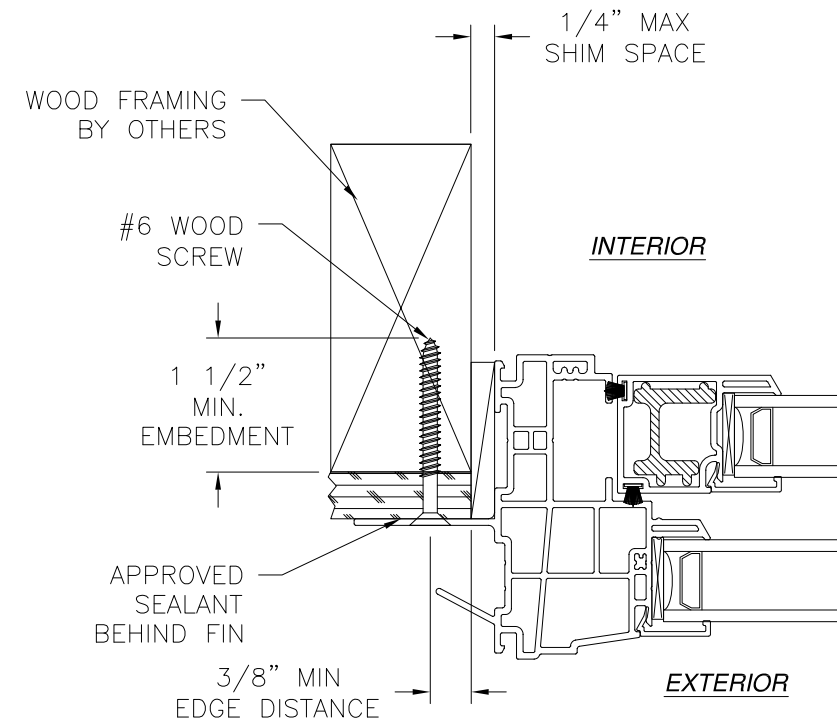
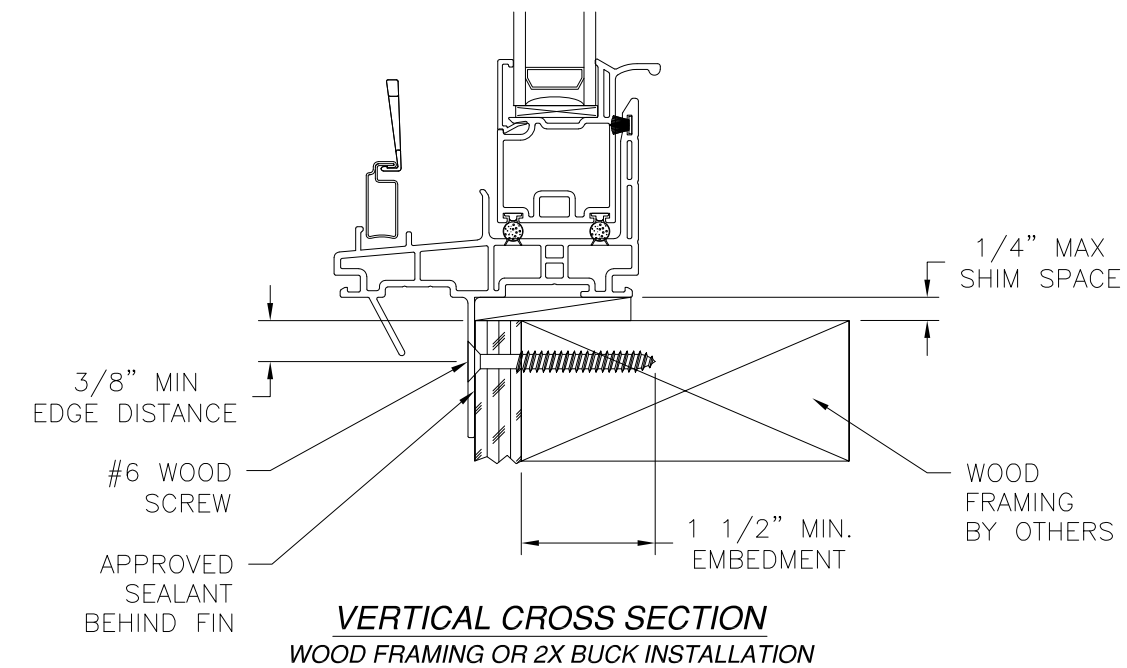
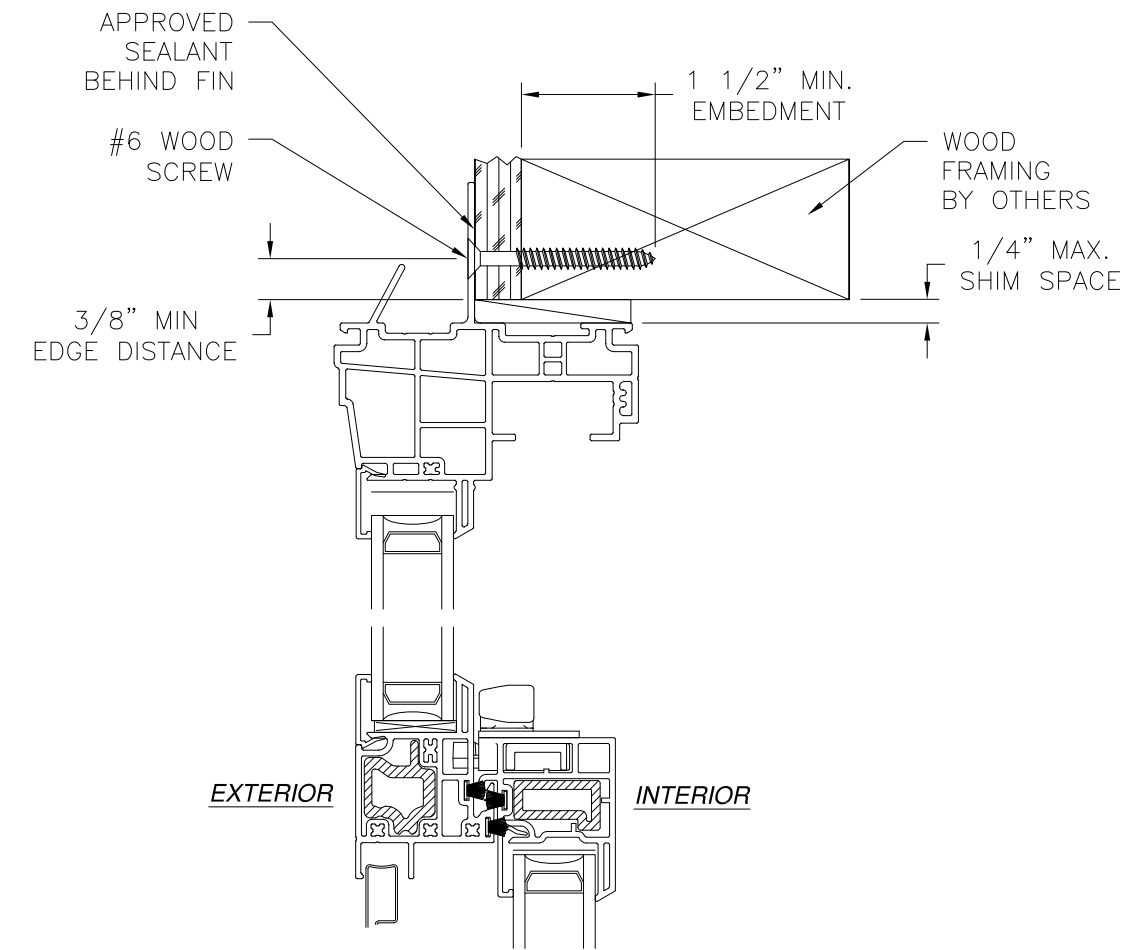
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION
INSTALL ONE ANCHOR THROUGH J HOOK
INTO MASONRY SUBSTRATE

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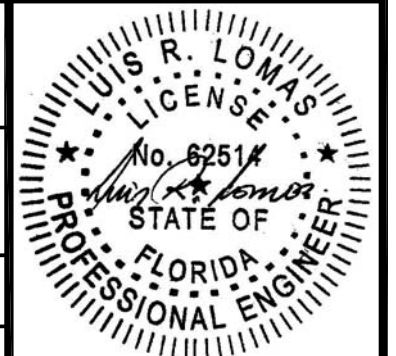
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION
INSTALL TWO ANCHORS THROUGH J HOOK
INTO WOOD SUBSTRATE

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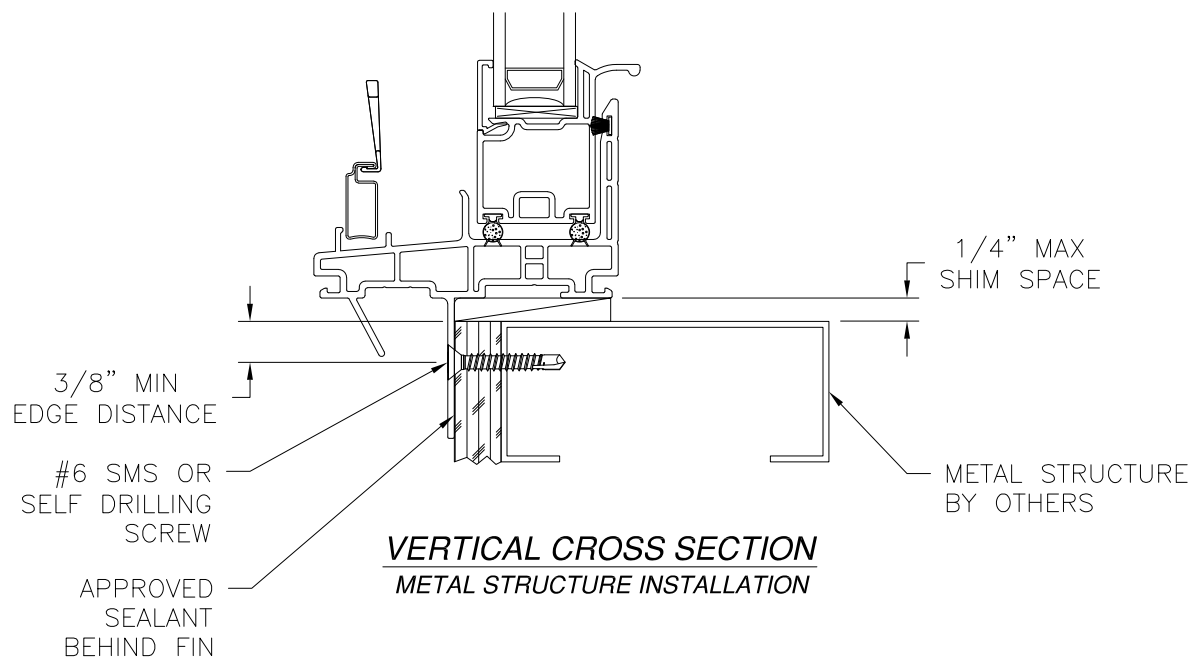
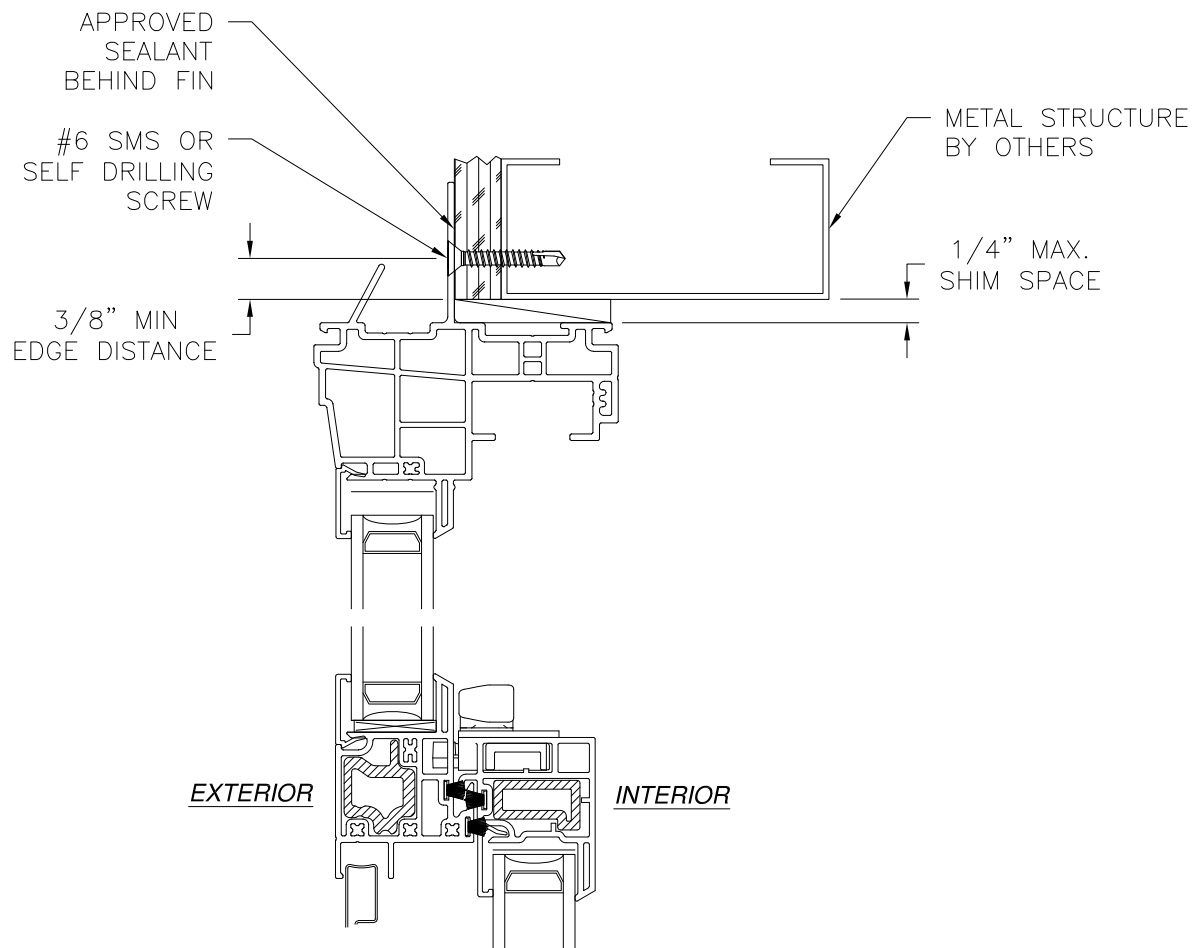
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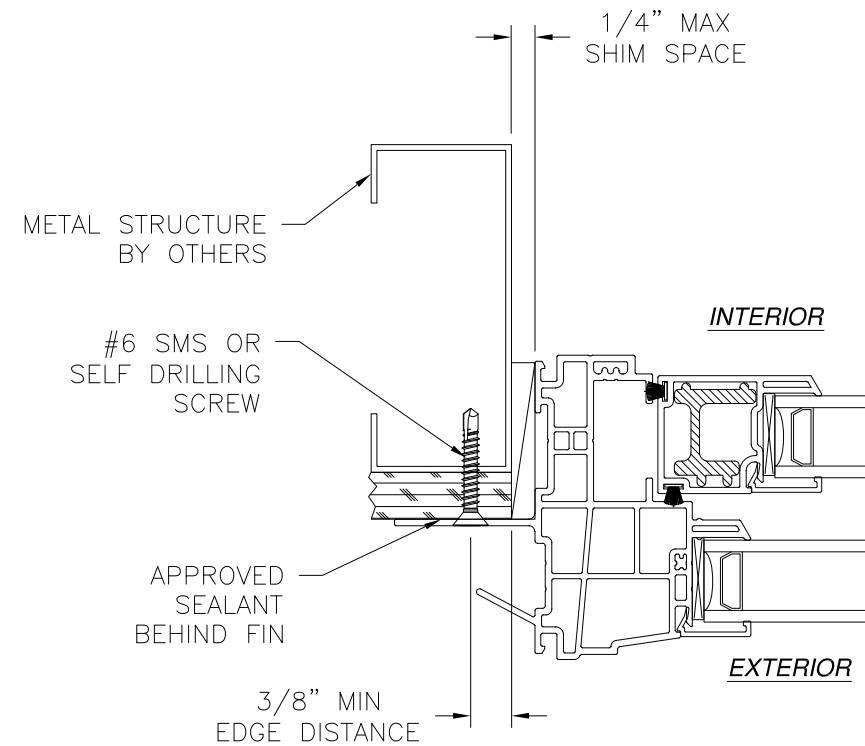


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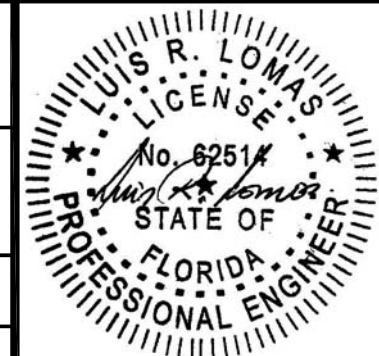
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JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION
INSTALL TWO ANCHORS THROUGH J HOOK
INTO METAL SUBSTRATE

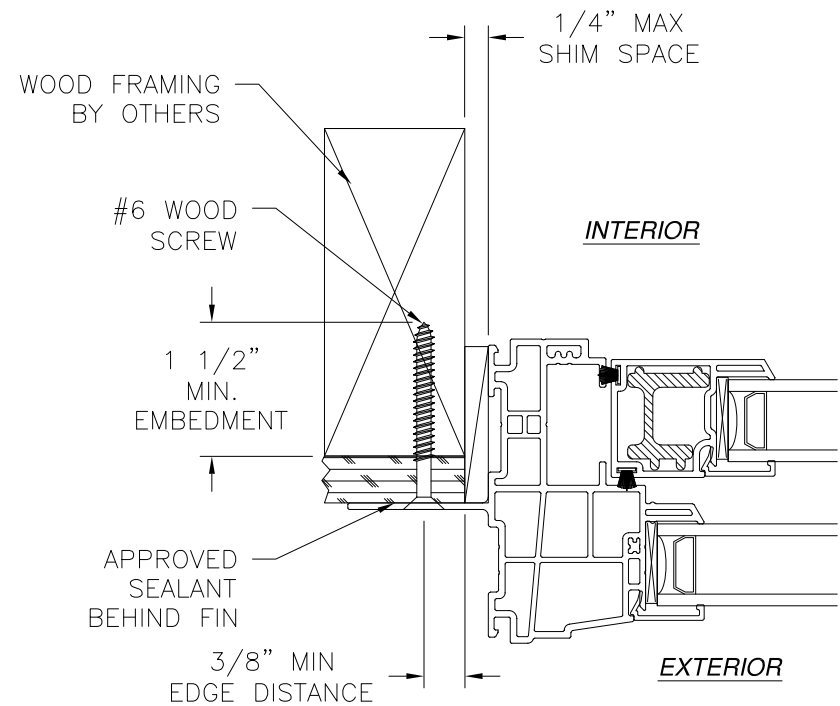
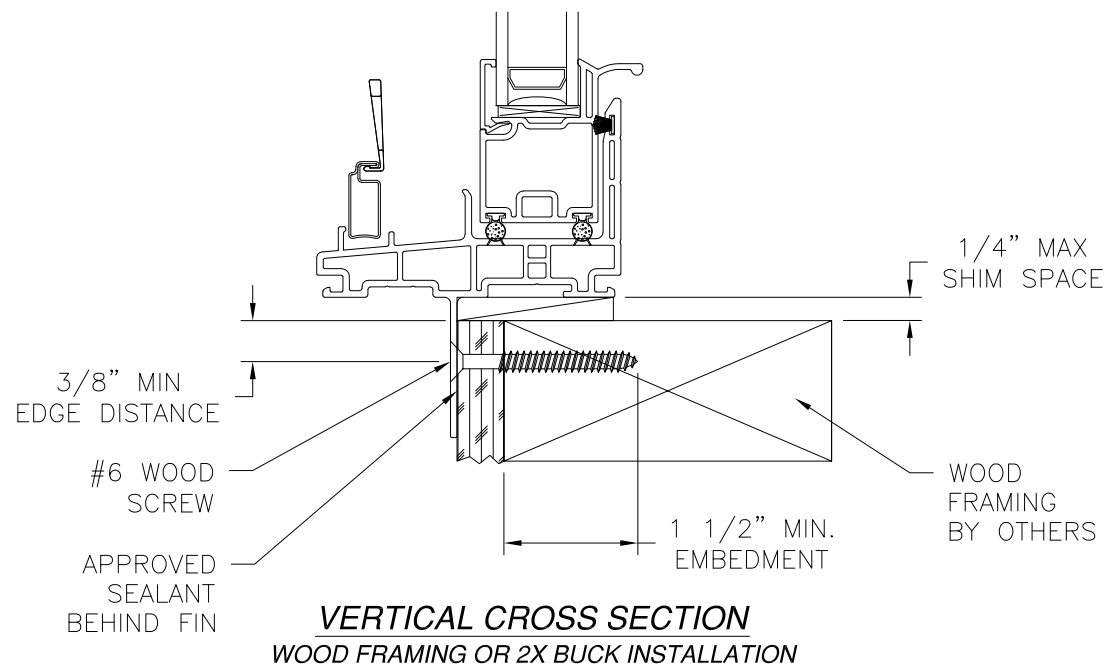
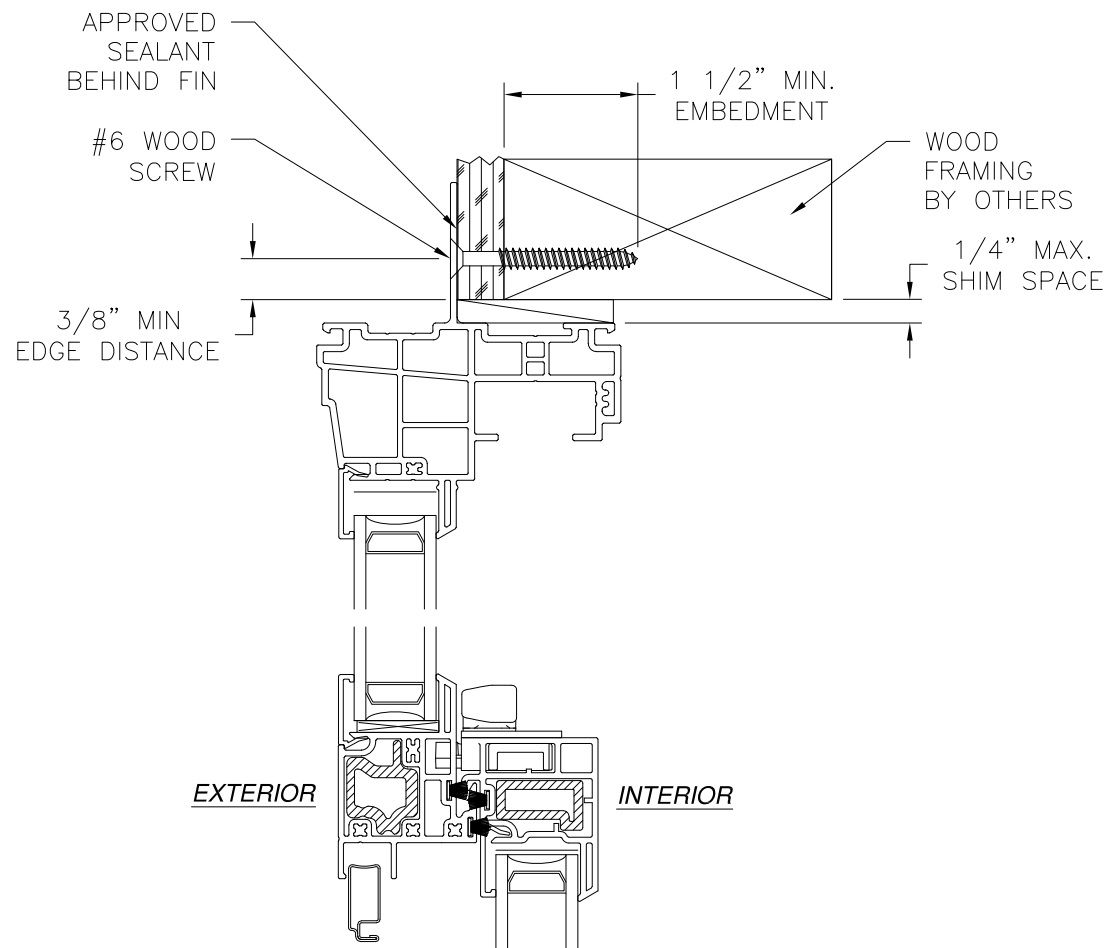
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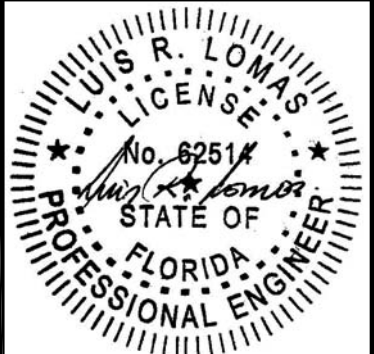


JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION
INSTALL TWO ANCHORS THROUGH J HOOK
INTO WOOD SUBSTRATE

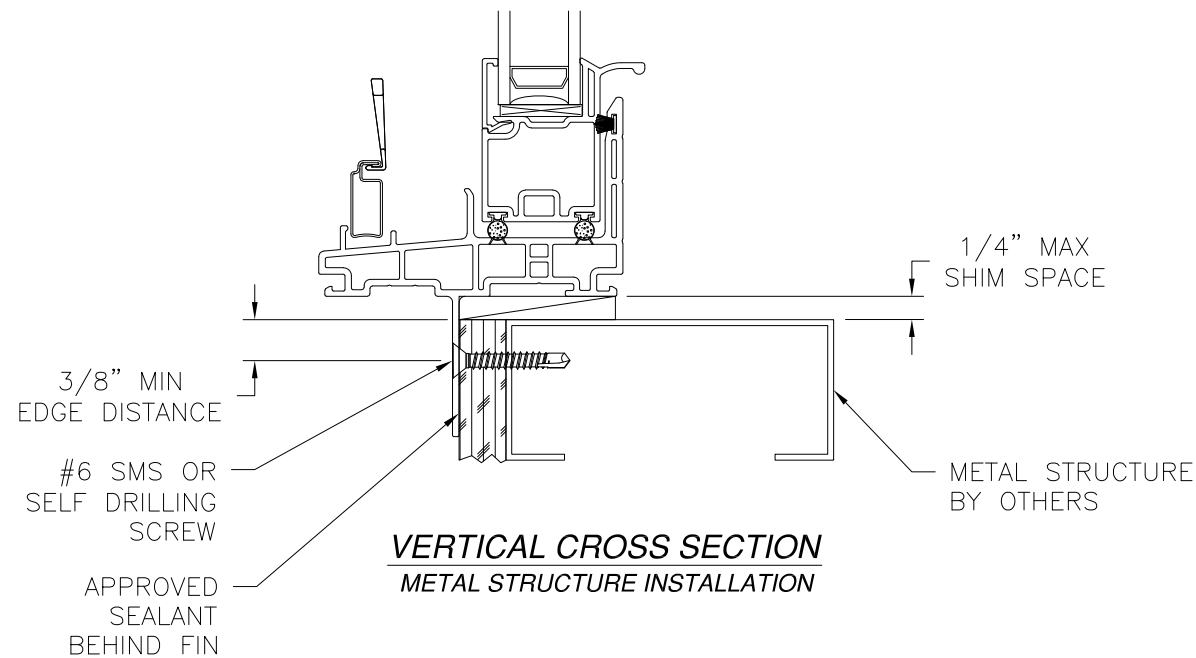
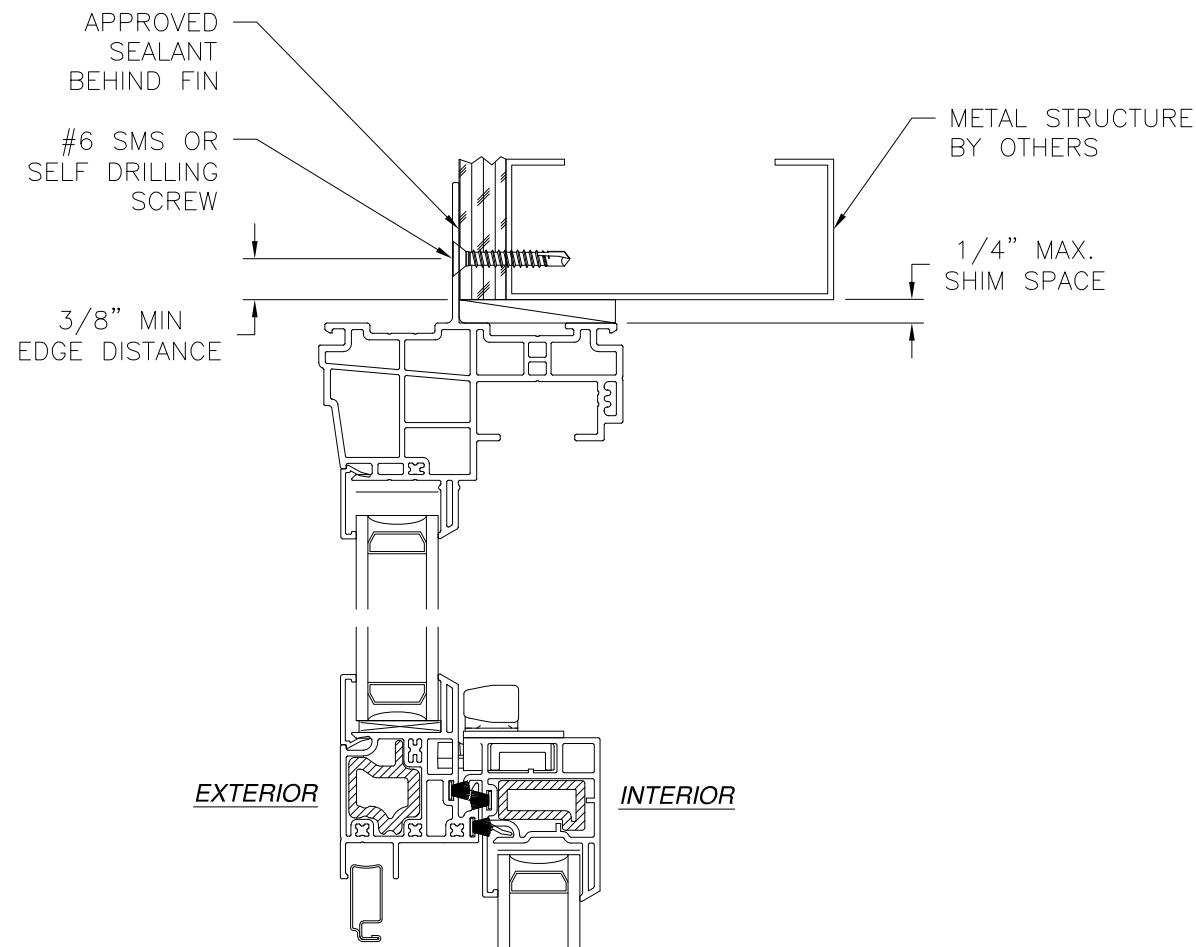
- NOTES:
- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620 SINGLE HUNG WINDOW REINFORCED NON-IMPACT 52" X 63" FIN INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03751	REV A
SCALE NTS	DATE 07/26/2021	SHEET 11 OF 14
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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

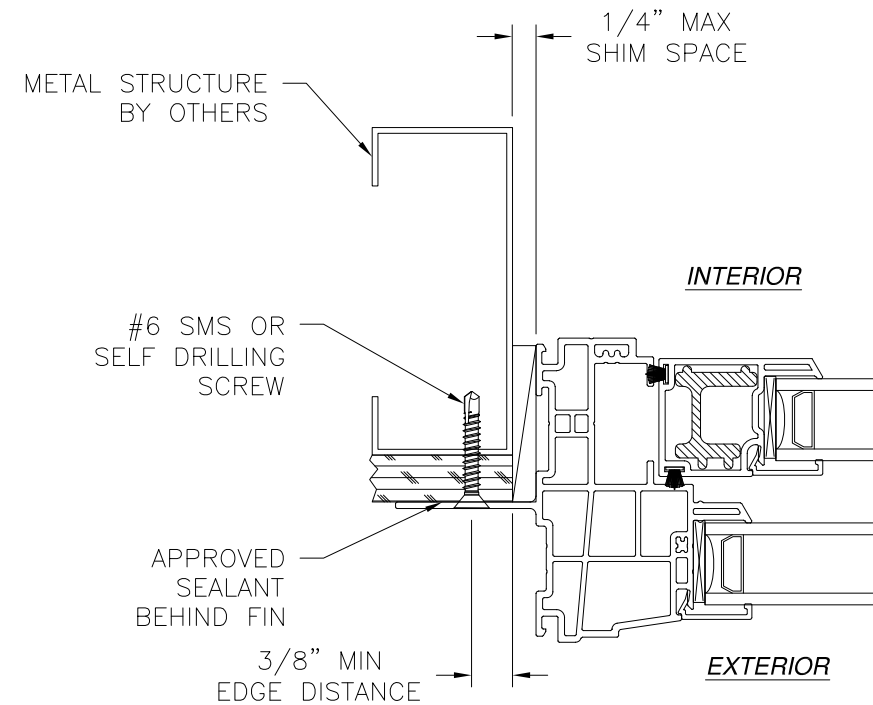


VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

NOTES:

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

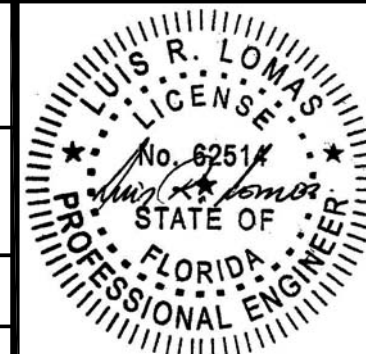
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	01/31/2024	R.L.



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION
INSTALL TWO ANCHORS THROUGH J HOOK
INTO METAL SUBSTRATE

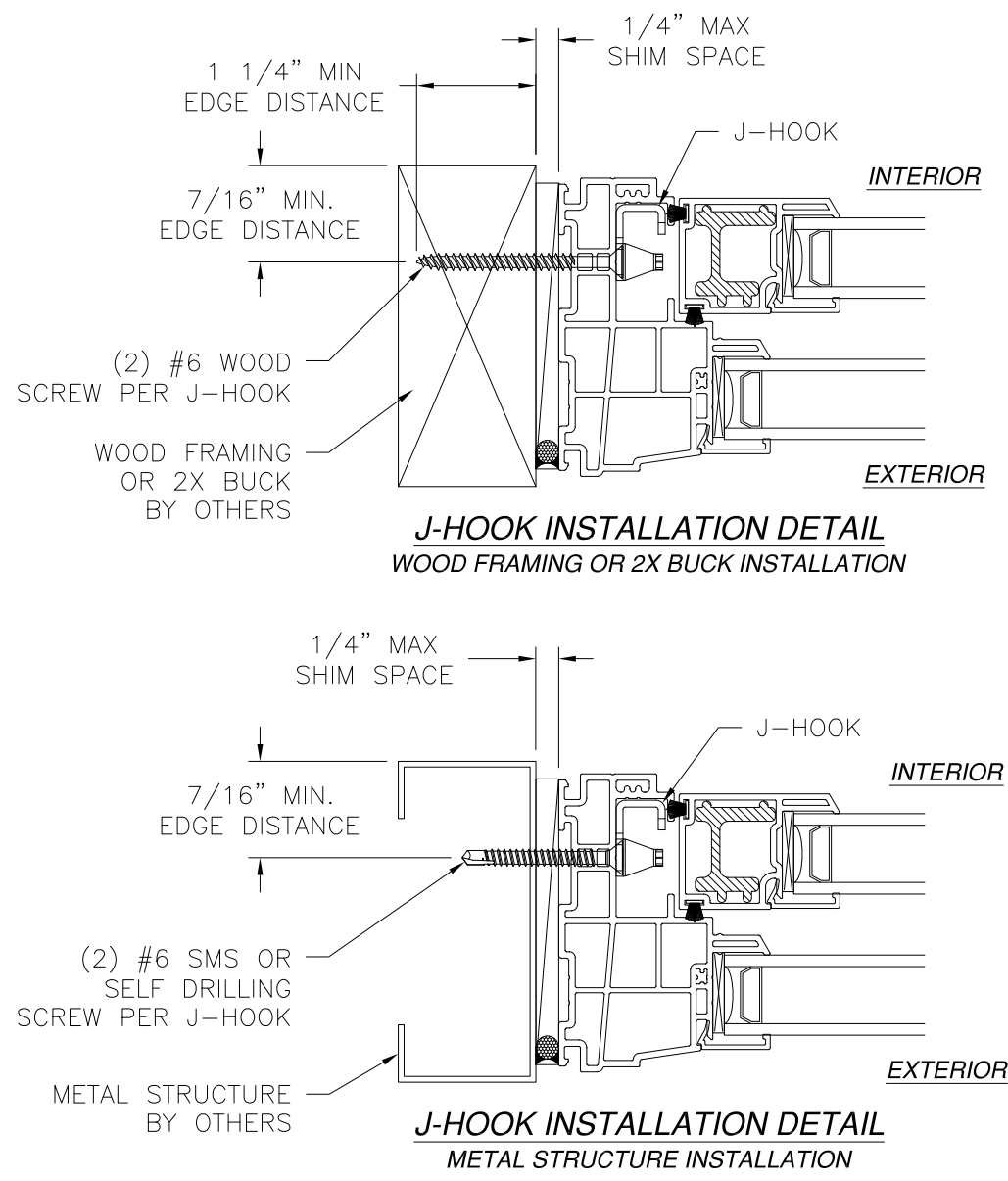
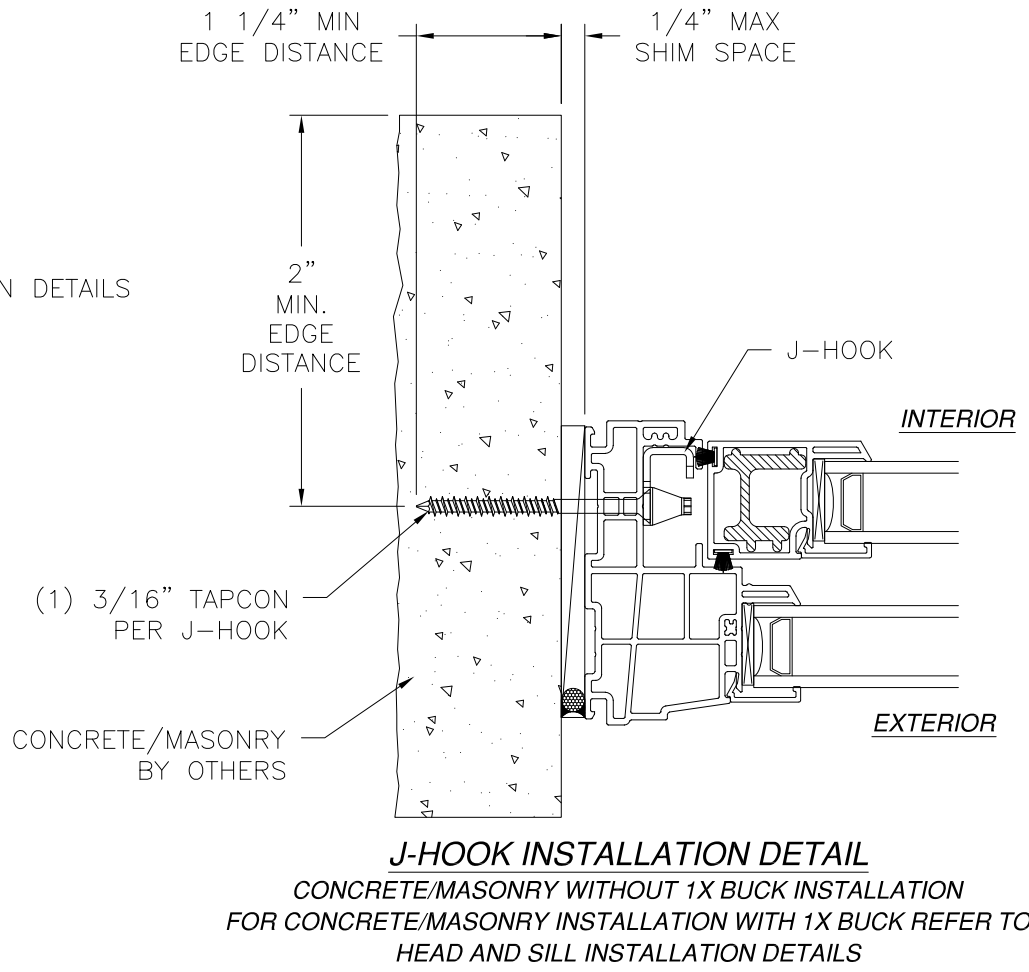
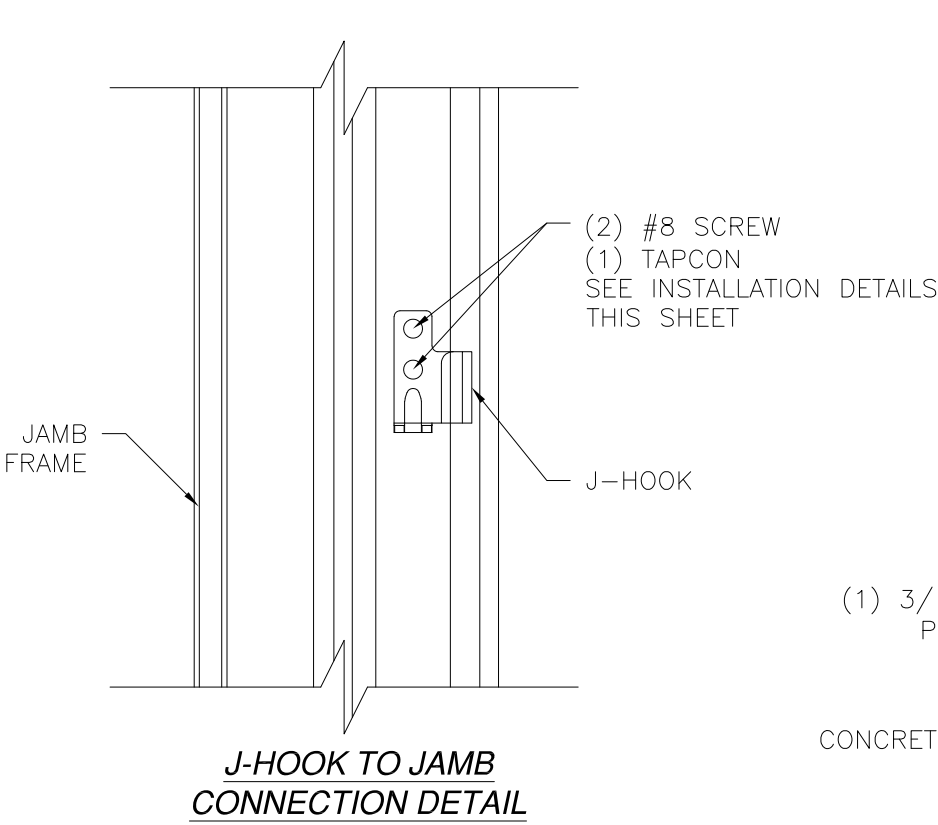
MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620 SINGLE HUNG WINDOW REINFORCED NON-IMPACT 52" X 63" FIN INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03751	REV A
SCALE NTS	DATE 07/26/2021	SHEET 12 OF 14
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	01/31/2024	R.L.



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MI WINDOWS & DOORS, LLC.
650 WEST MARKET STREET
GRATZ, PA 17030-0370

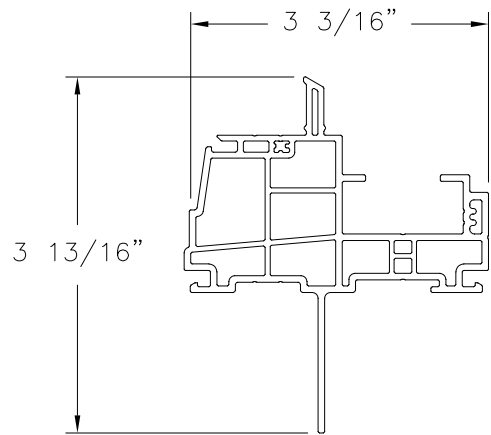
SERIES 1620 SINGLE HUNG WINDOW REINFORCED
NON-IMPACT 52" X 63"
J-HOOK INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03751	REV A
SCALE NTS	DATE 07/26/2021	SHEET 13 OF 14

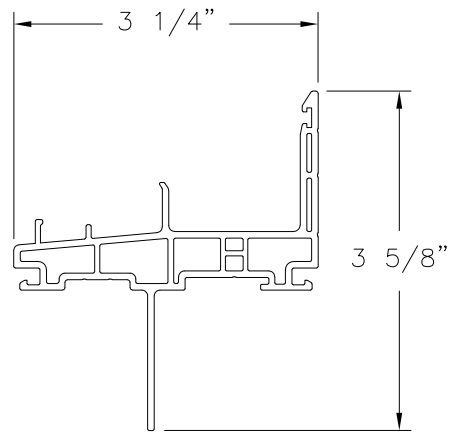
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



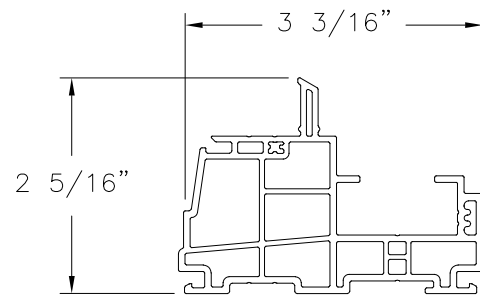
Luis R. Lomas P.E.
FL No.: 62514



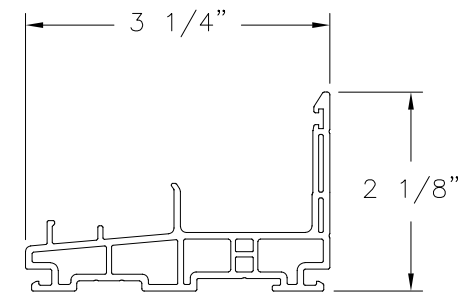
HEAD/JAMB FIN INSTALLATION
EXTRUDED PVC (V-1007)



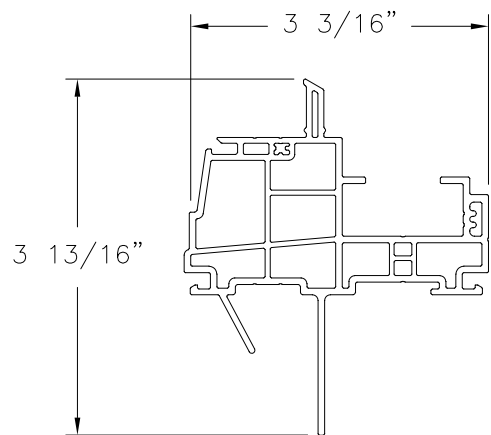
SILL FIN INSTALLATION
EXTRUDED PVC (V-1012)



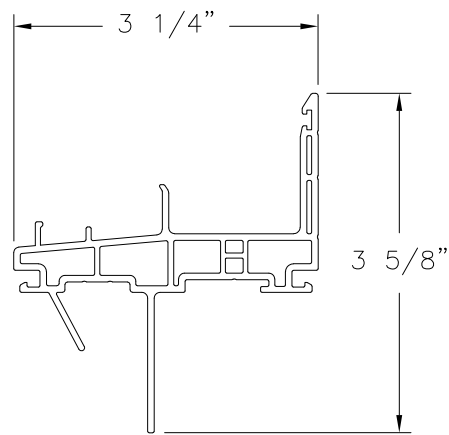
HEAD/JAMB FINLESS
EXTRUDED PVC (V-1008)



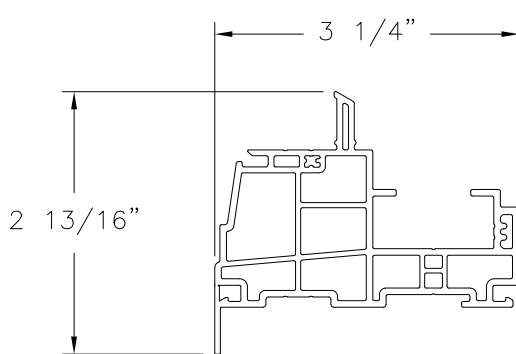
SILL FINLESS
EXTRUDED PVC (V-1013)



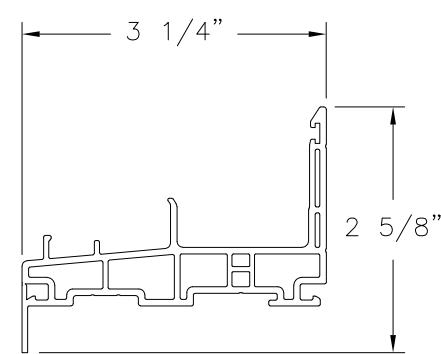
**HEAD/JAMB FIN INSTALLATION
WITH J-CHANNEL**
EXTRUDED PVC (V-1006)



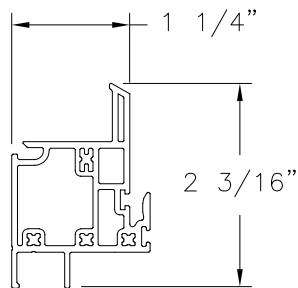
**SILL FIN INSTALLATION
WITH J-CHANNEL**
EXTRUDED PVC (V-1011)



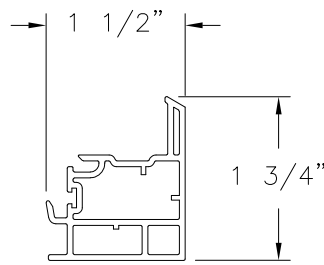
HEAD/JAMB WITH FLANGE
EXTRUDED PVC (VE-000025)



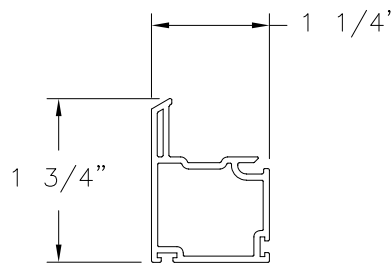
SILL WITH FLANGE
EXTRUDED PVC (VE-000021)



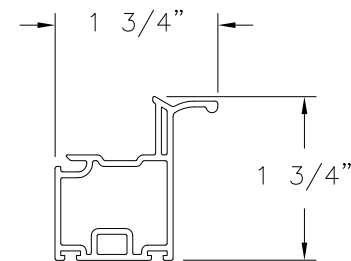
MEETING RAIL
EXTRUDED PVC (V-1016)



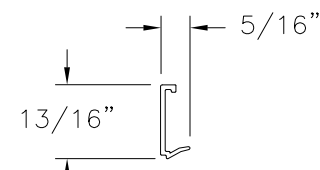
BOTTOM SASH/TOP RAIL
EXTRUDED PVC (V-675)



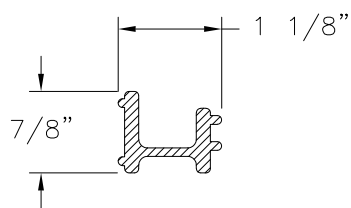
BOTTOM SASH/STILE
EXTRUDED PVC (V-670)



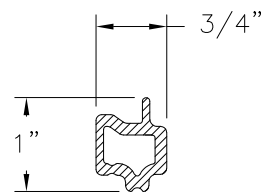
BOTTOM SASH/BOTTOM RAIL
EXTRUDED PVC (V-672)



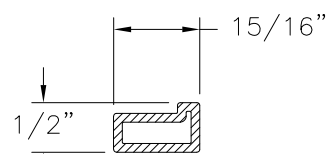
GLAZING BEAD
RIGID PVC (V-676)



**STILES
REINFORCEMENT**
ALUMINUM 6063-T5 (M-2266)



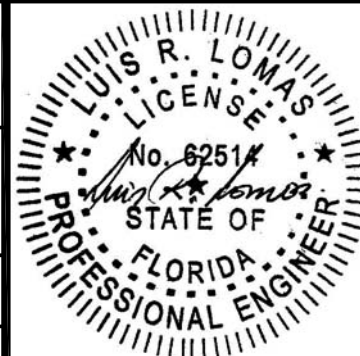
**MEETING RAIL
REINFORCEMENT**
ALUMINUM 6063-T5 (M-2343)



**LOCK RAIL
REINFORCEMENT**
ALUMINUM 6063-T5 (M-2115)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	01/31/2024	R.L.

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620 SINGLE HUNG WINDOW REINFORCED NON-IMPACT 52" X 63" COMPONENTS		
DRAWN: A.R.	DWG NO. 08-03751	REV A
SCALE NTS	DATE 07/26/2021	SHEET 14 OF 14
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



SIGNED: 02/07/2024

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FL No.: 62514