

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	REVISE TO ADD PANOLOCK	11/06/2023	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 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.
4. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
5. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. FRAME MATERIAL: WOOD WITH G=.46 MINIMUM SPECIFIC GRAVITY, OR COMPOSITE, OR FRAMESAVER OR FUSION FRAME.
DOOR SKIN MATERIAL: STEEL .033” THICK (MINIMUM) AND FIBERGLASS .085” THICK(MINIMUM).
7. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16” OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4”.
9. FOR ANCHORING 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.
10. FOR ANCHORING 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.
11. FOR ANCHORING 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.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. 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:

13.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42

13.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.

13.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

13.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .048” THICK MINIMUM

SIGNED: 11/27/2023

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PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOOR
SINGLE & DOUBLE NON-IMPACT
NOTES

DRAWN:
J.L.

DWG NO.
08-02080

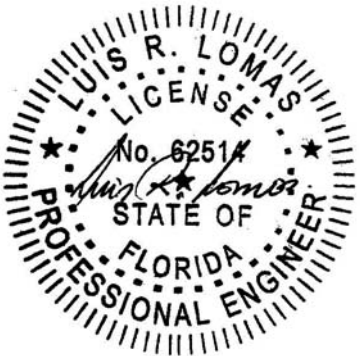
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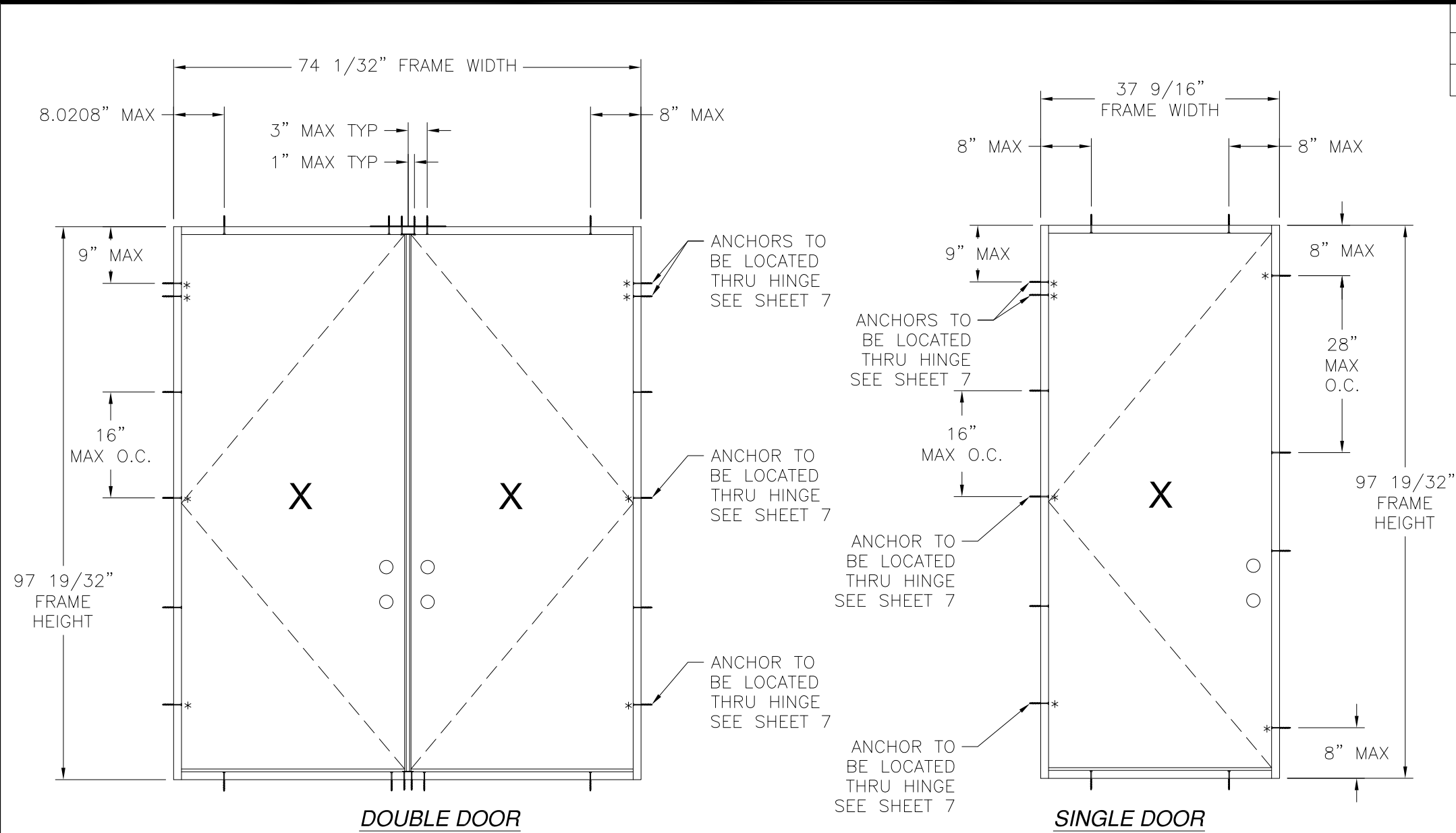
DATE 06/19/13

SHEET 1 OF 9

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



35 3/4" x 94 15/16" PANEL SIZE SHOWN. OTHER SIZES ARE APPROVED
AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 23.56 FT²

HARDWARE SCHEDULE	
A.	F-SERIES ASSEMBLY DOOR KNOB BY SCHLAGE.
B.	B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
C.	F-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
D.	EMTEK RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY (ALTERNATE)
E.	TRILLENIUM MULTI-POINT LOCK HANDLE ASSEMBLY (ALTERNATE)
F.	PANOLOCK MULTI-POINT LOCK HANDLE ASSEMBLY (ALTERNATE)
G.	INSWING HURRICANE ASTRAGAL BY ENDURA
H.	(3) 4" X 4" BALL BEARING HINGES BY PENROD
I.	(3) 4" X 4" SPRING BOMMER HINGES BY PENROD (ALTERNATE)

- NOTES;
- HINGES ARE LOCATED AT 10", 50" AND 89" FROM TOP CORNER.
 - APPROVED CONFIGURATIONS MAY BE RIGHT OR LEFT HAND.
 - PANEL SIZE 35 3/4" X 94 15/16".
 - JAMBS ARE ASSEMBLED TO HEAD FRAME WITH (3) #8X3" WOOD SCREWS AT EACH JAMB.
 - JAMBS ARE ASSEMBLED TO THRESHOLD WITH (3) #6X1-1/2" WOOD SCREWS AT EACH JAMB.

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DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	NONE
THIS SYSTEM WAS NOT TESTED FOR WATER INFILTRATION AND IS TO BE INSTALLED ONLY WHERE WATER RESISTANCE IS NOT REQUIRED	

WITH PANOLOCK MULTI-POINT	
DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE
THIS SYSTEM WAS NOT TESTED FOR WATER INFILTRATION AND IS TO BE INSTALLED ONLY WHERE WATER RESISTANCE IS NOT REQUIRED	

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STEEL/FIBERGLASS INSWING OPAQUE DOOR
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ELEVATIONS

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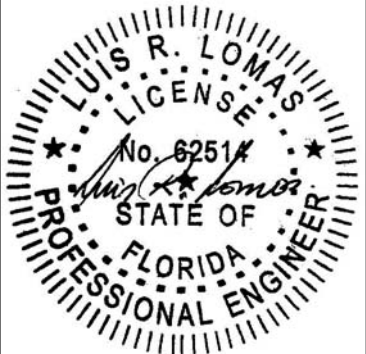
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NTS

DATE
06/19/13

SHEET
2 OF 9

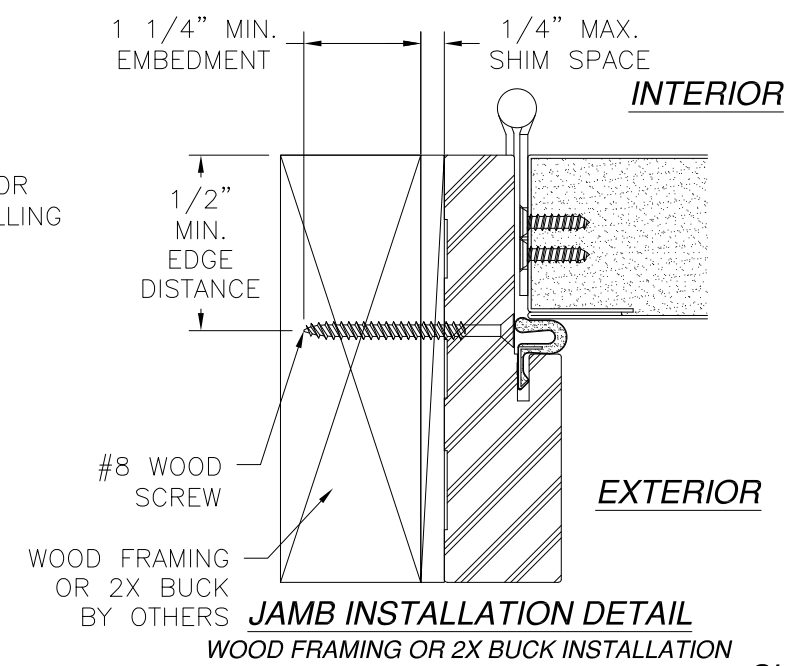
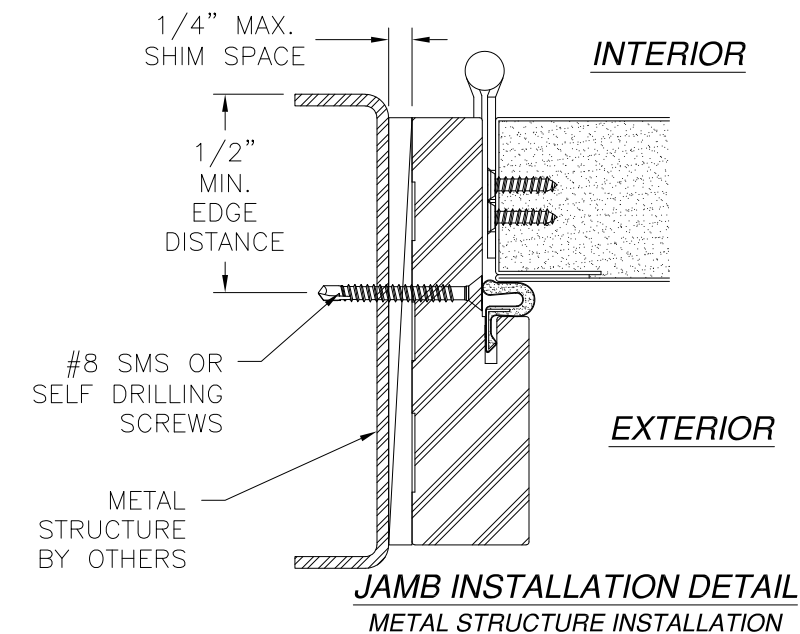
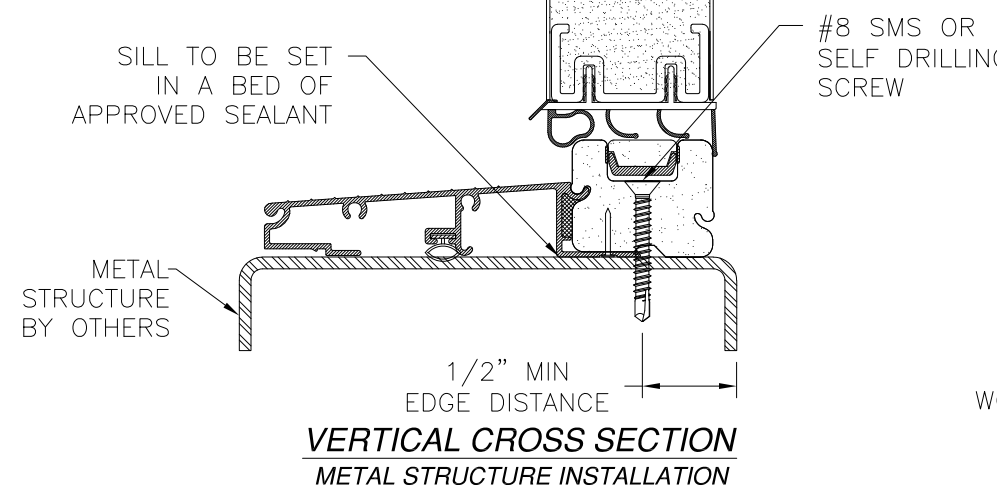
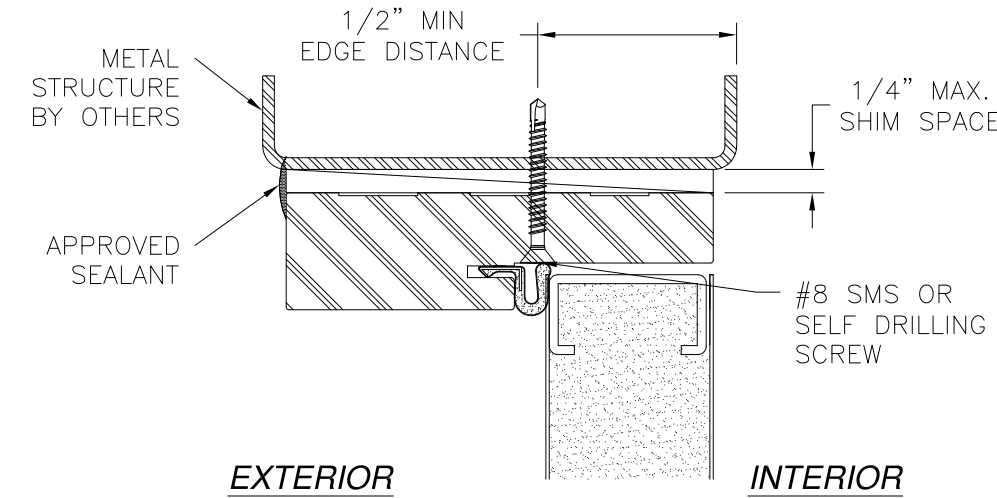
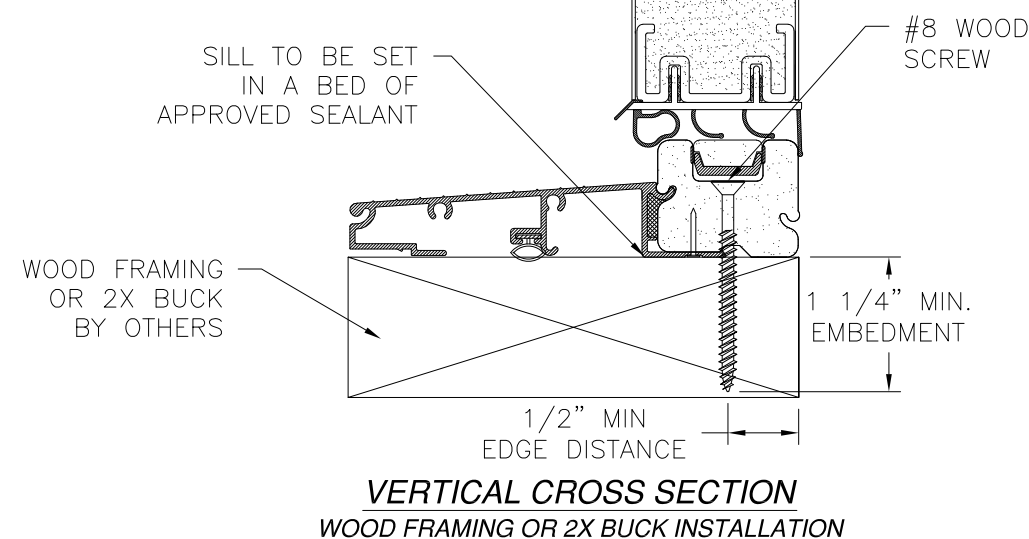
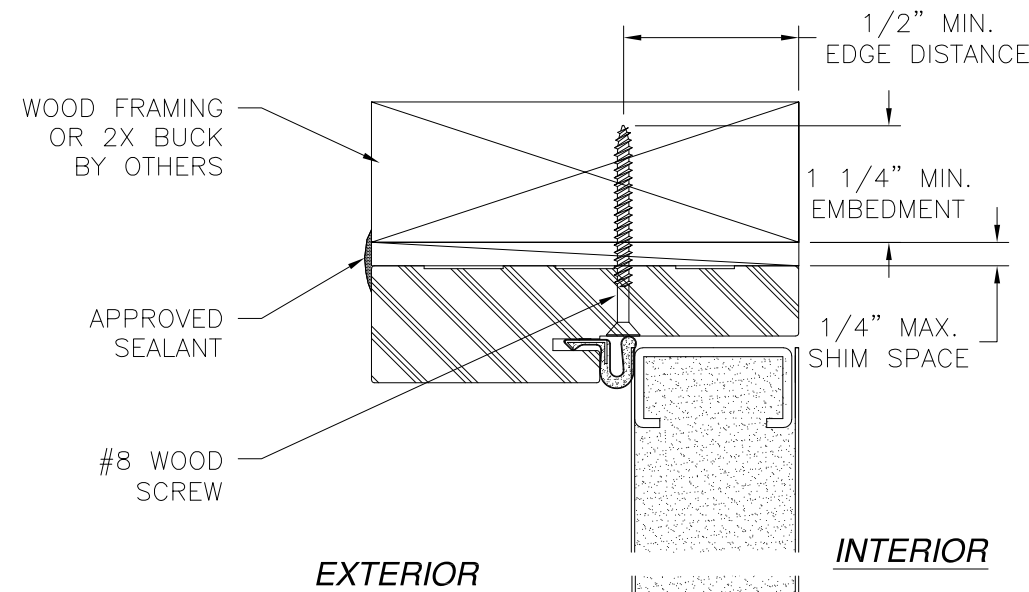
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SIGNED: 11/27/2023



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

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- 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

PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOOR
SINGLE & DOUBLE NON-IMPACT
INSTALLATION DETAILS

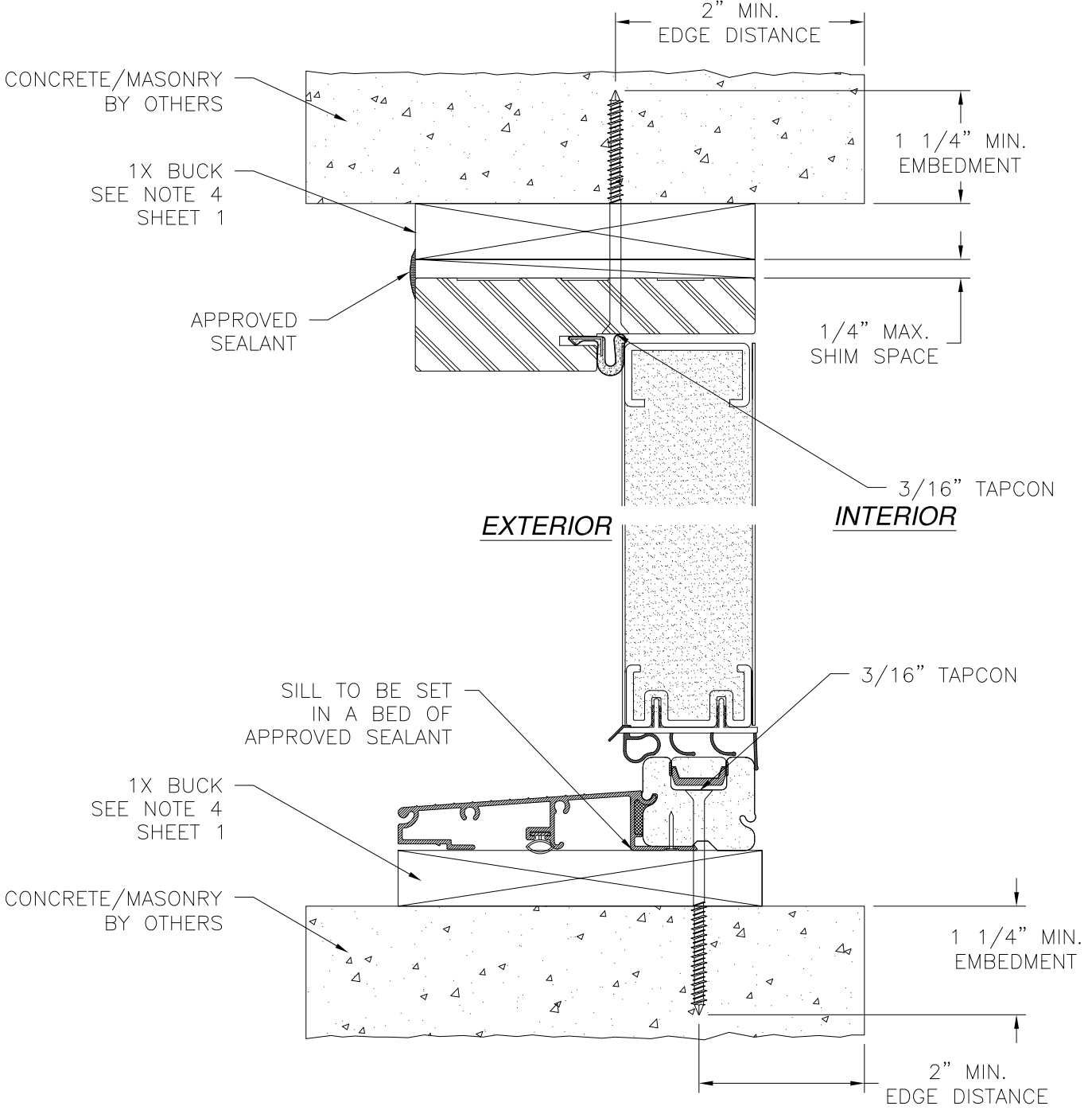
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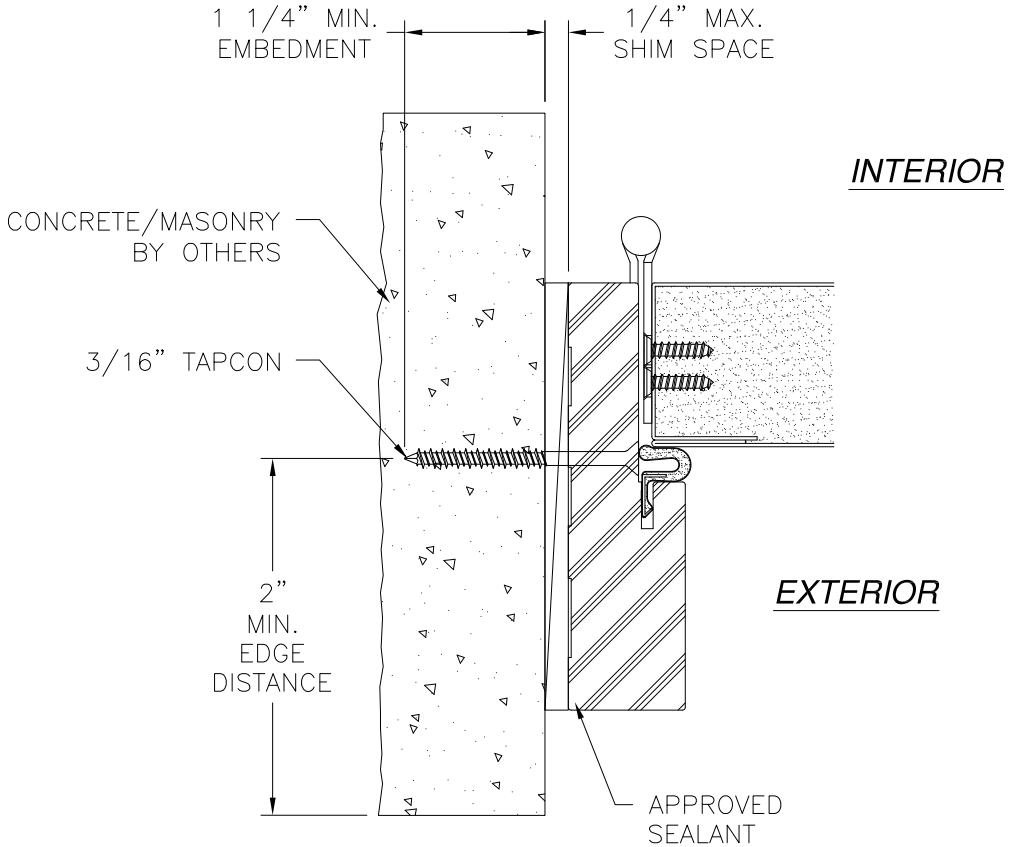
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VERTICAL CROSS SECTION
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAIL

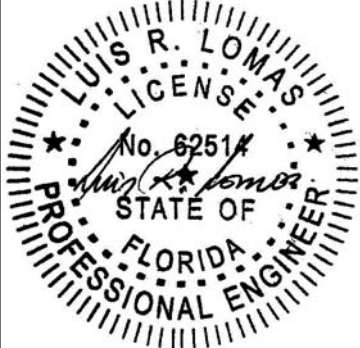


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

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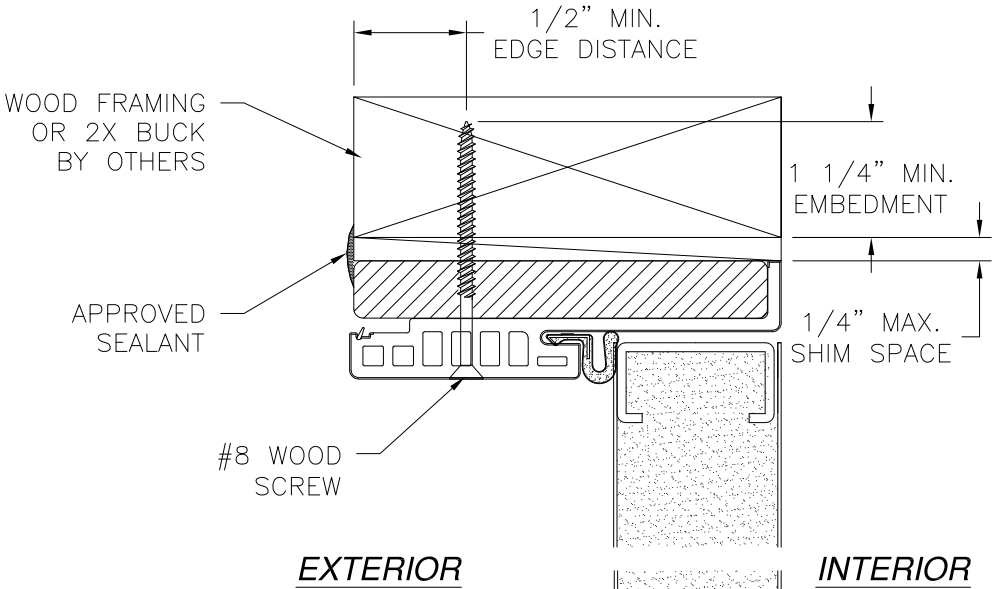
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STEEL/FIBERGLASS INSWING OPAQUE DOOR SINGLE & DOUBLE NON-IMPACT INSTALLATION DETAILS		
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

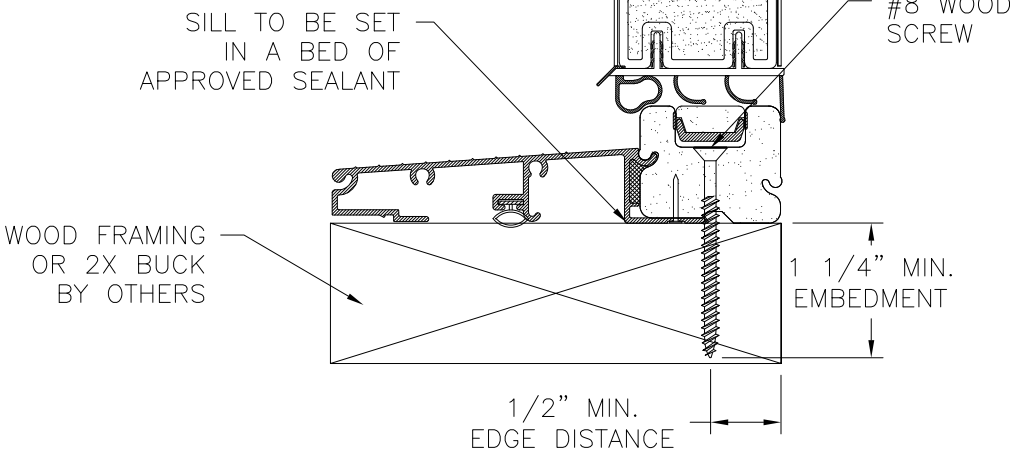


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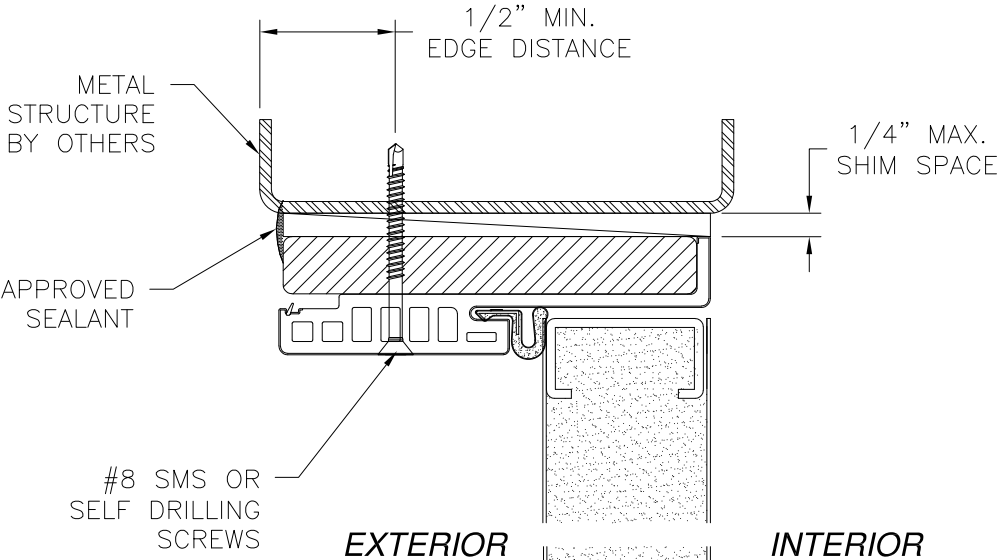
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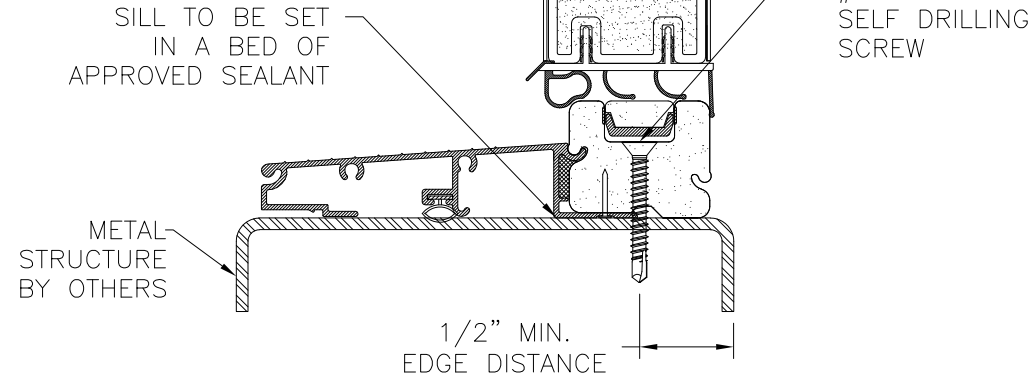
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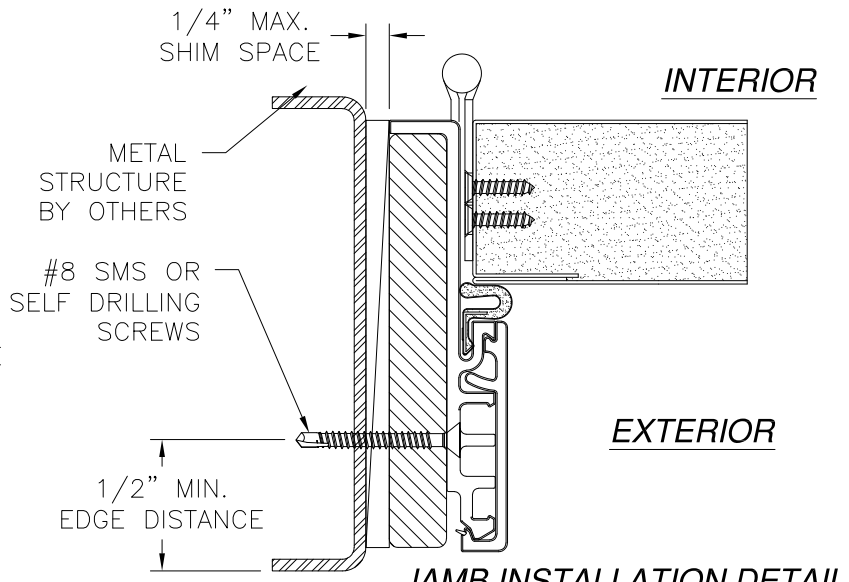
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WOOD FRAMING OR 2X BUCK INSTALLATION



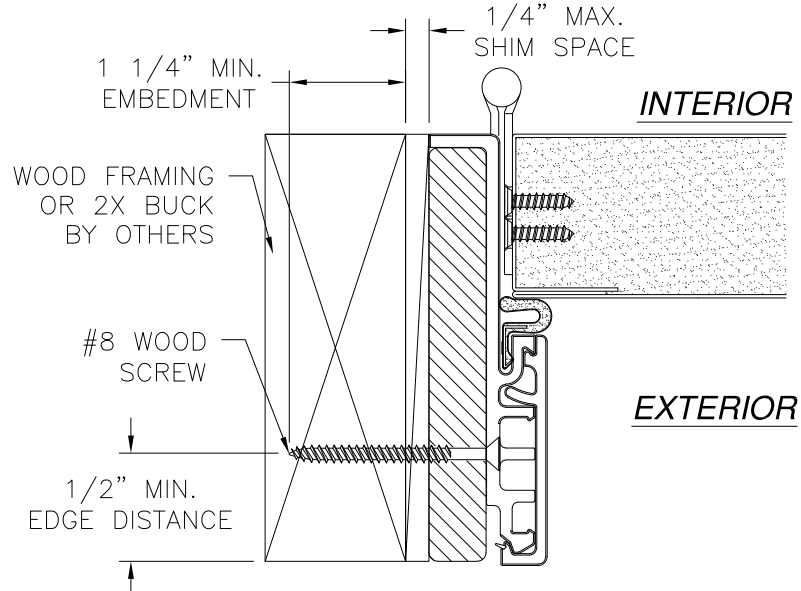
EXTERIOR **INTERIOR**



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



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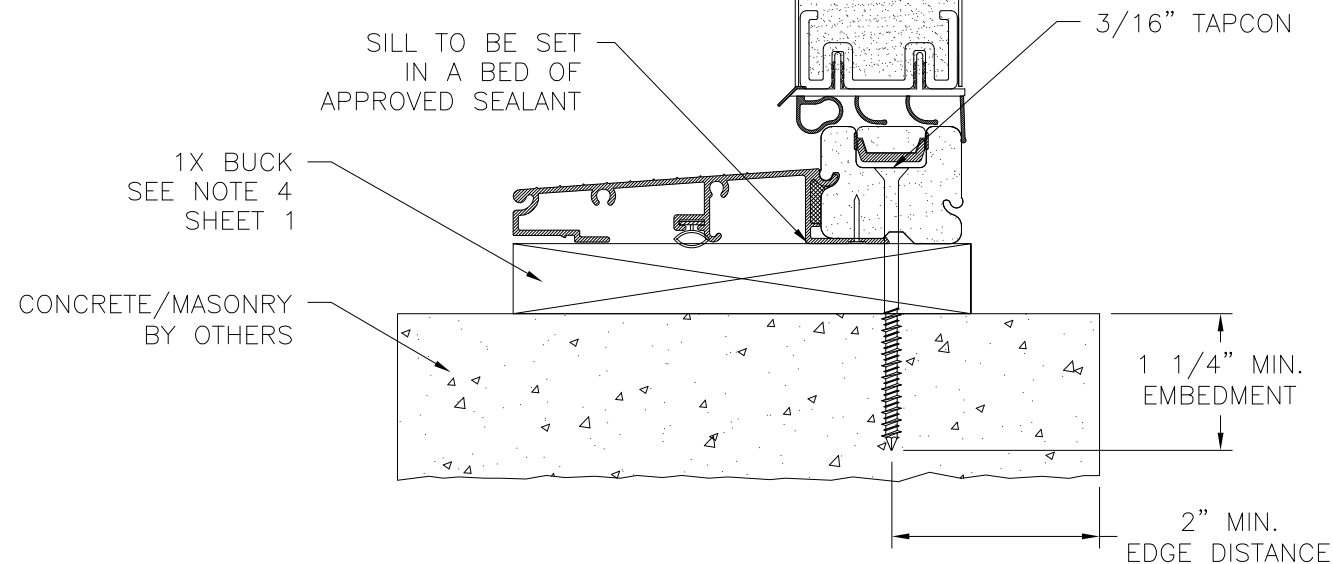
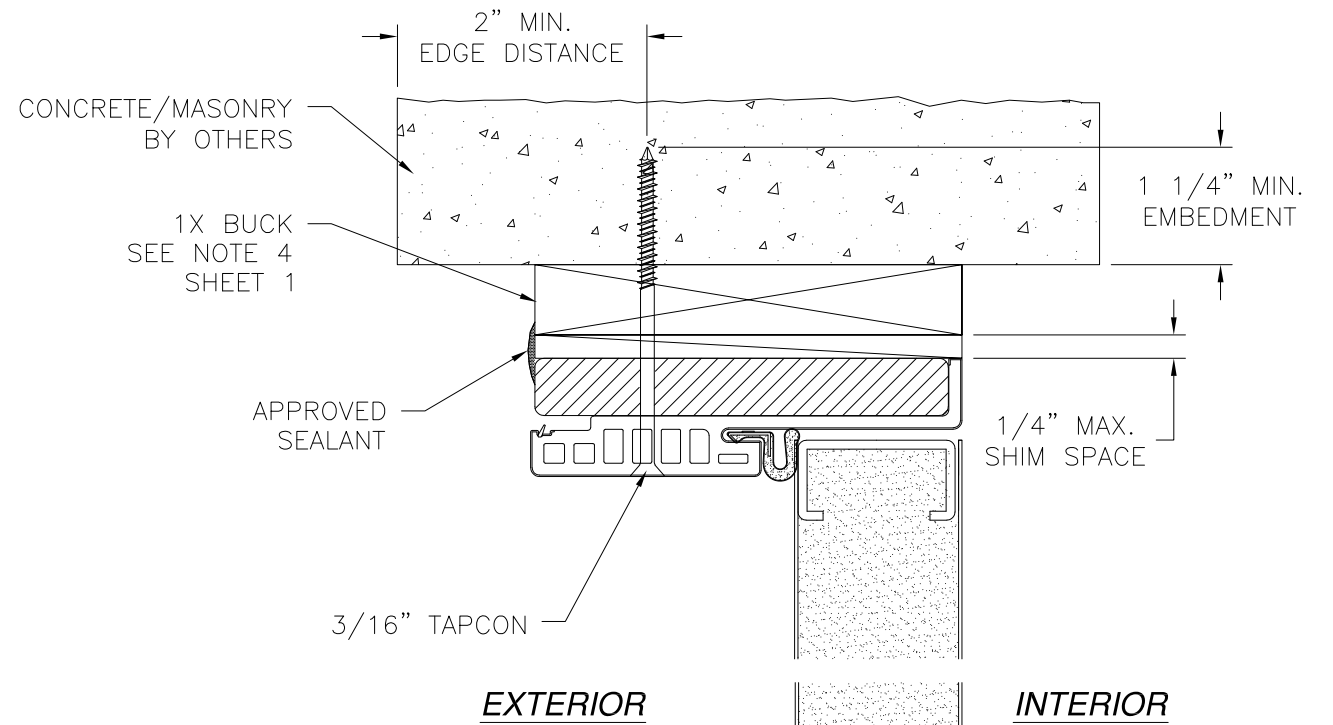
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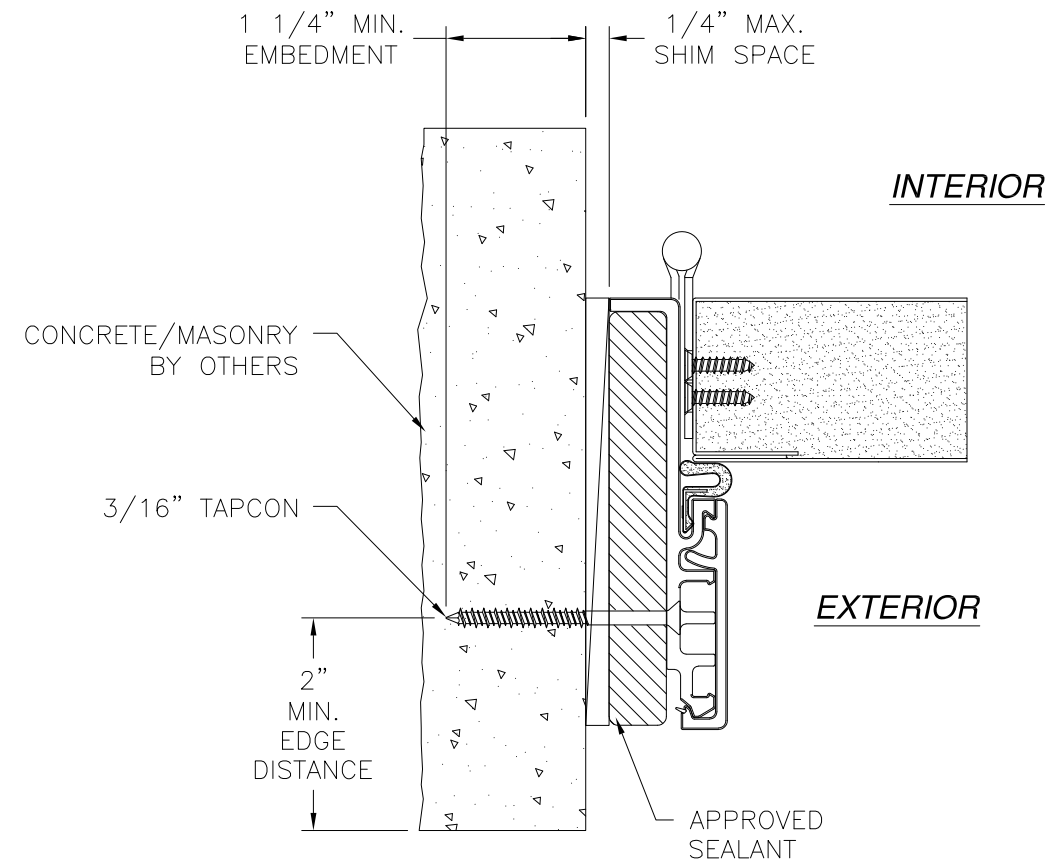


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VERTICAL CROSS SECTION
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAIL



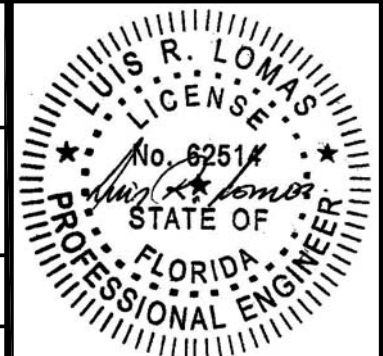
JAMB INSTALLATION DETAIL
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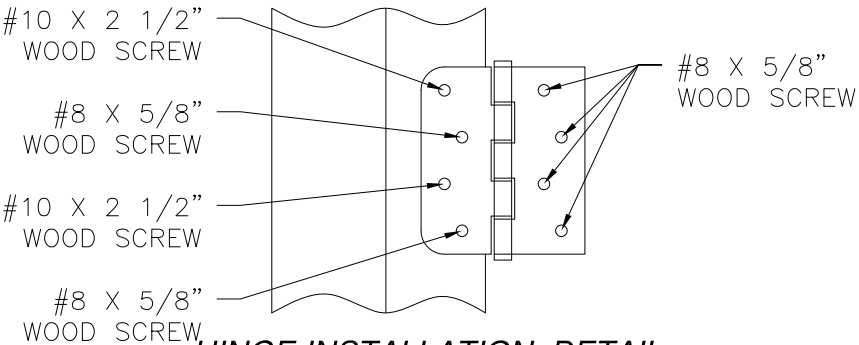
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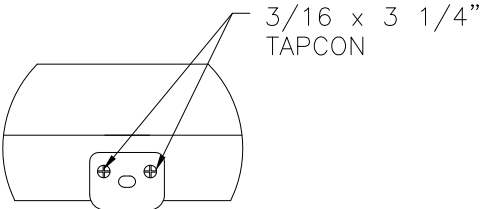


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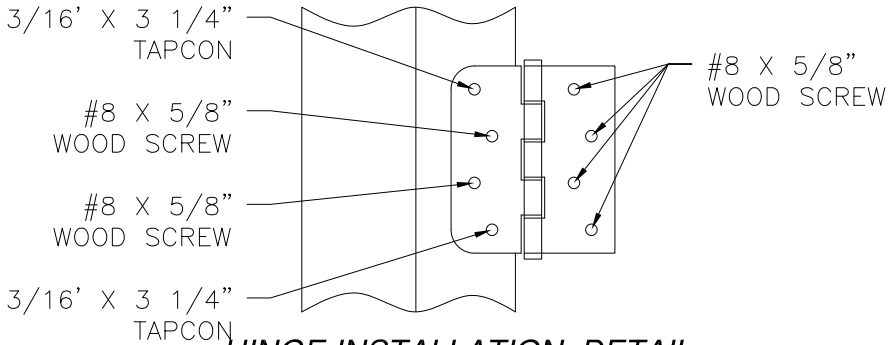
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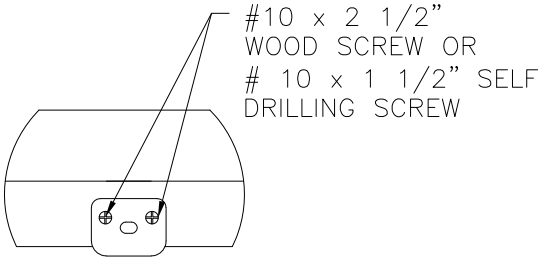
HINGE INSTALLATION DETAIL
2X BUCK/WOOD FRAMING



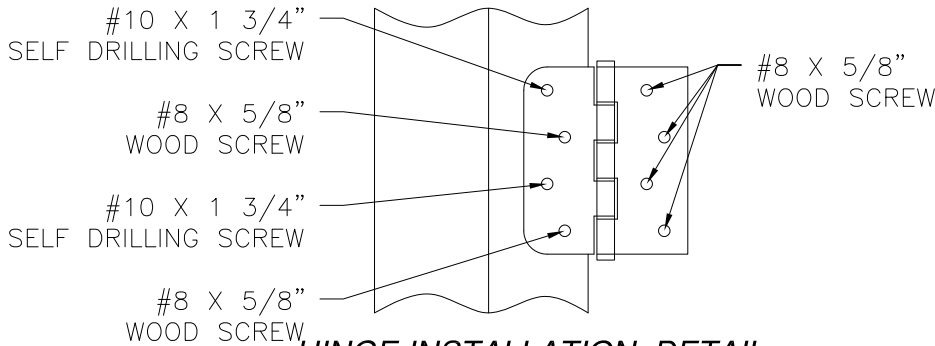
ASTRAGAL HEAD STRIKE DETAIL
MASONRY/CONCRETE



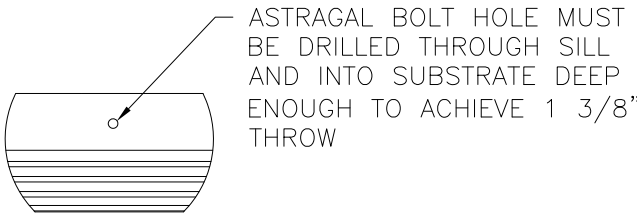
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MASONRY/CONCRETE



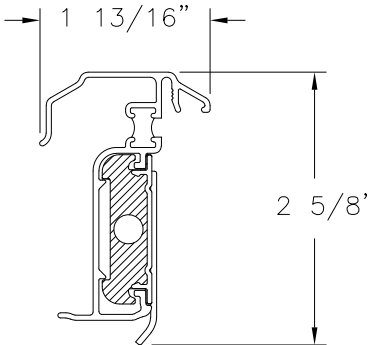
ASTRAGAL HEAD STRIKE DETAIL
2X BUCK/WOOD FRAMING
OR METAL STRUCTURE



HINGE INSTALLATION DETAIL
METAL STRUCTURE



ASTRAGAL SILL DETAIL



HURRICANE ASTRAGAL DETAIL

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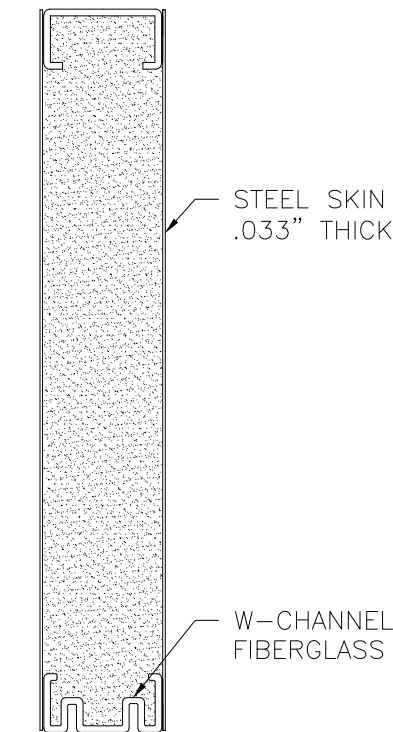
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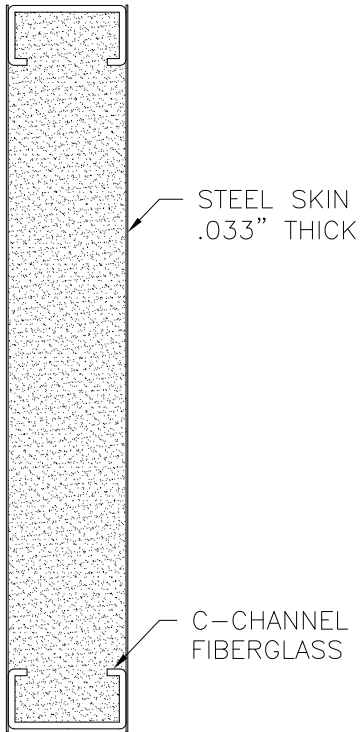
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APPROVED SLABS AND CROSS SECTIONS

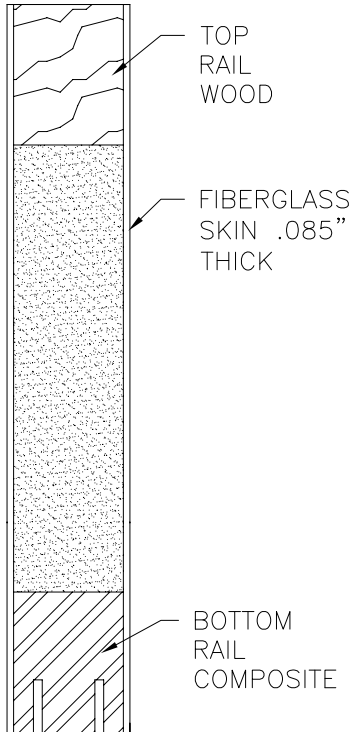
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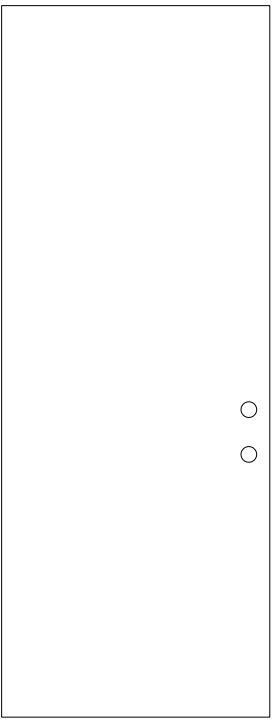
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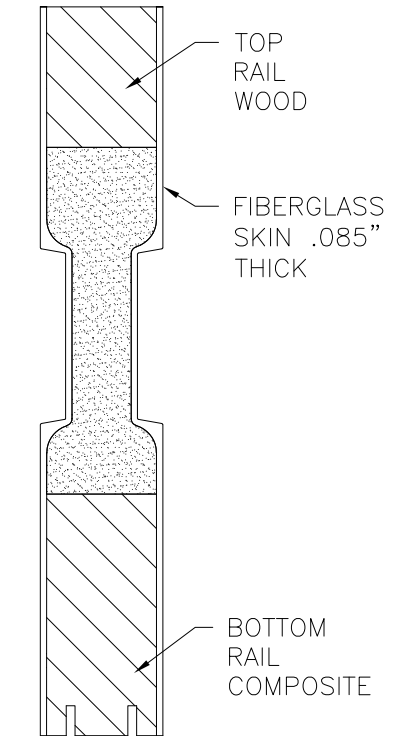
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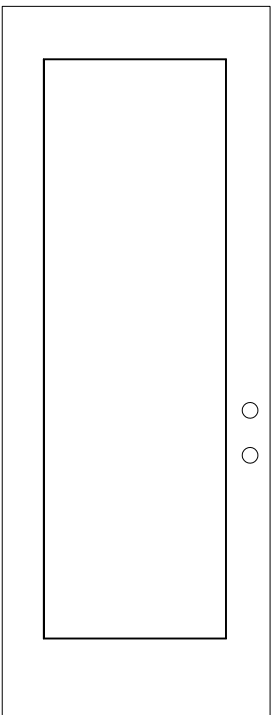
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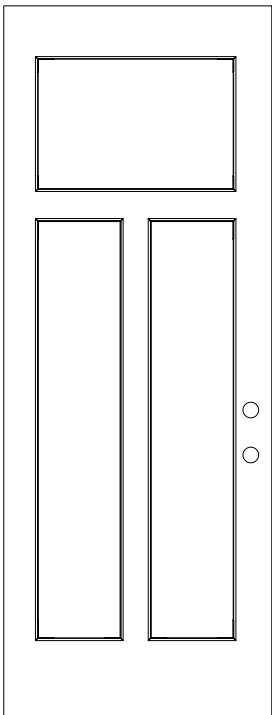
FLAT SLAB
20GA STEEL AND FIBERGLASS



FIBERGLASS



1 PANEL SLAB
FIBERGLASS ONLY



3 PANEL SLAB
FIBERGLASS ONLY

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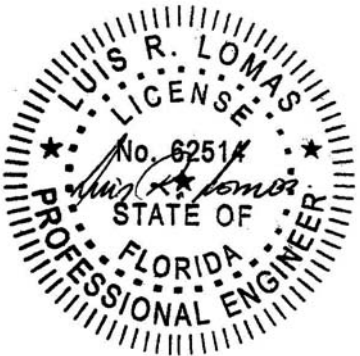
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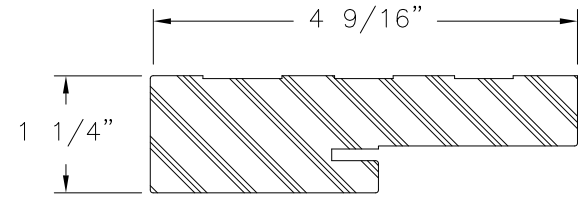
SHEET 8 OF 9

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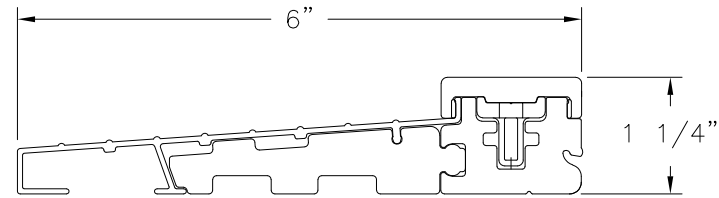


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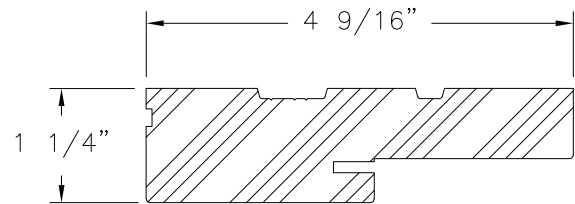
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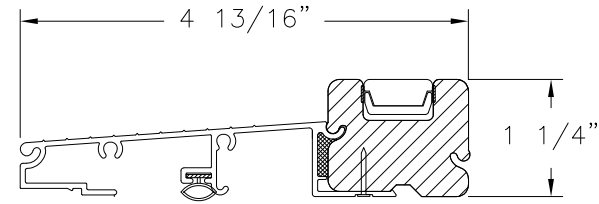
COMPOSITE FRAME PROFILE



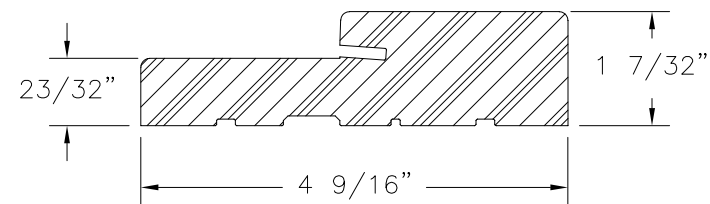
STANDARD INSWING THRESHOLD



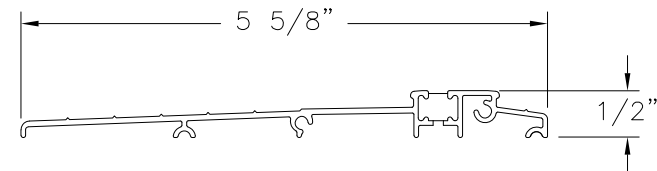
WOOD FRAME PROFILE



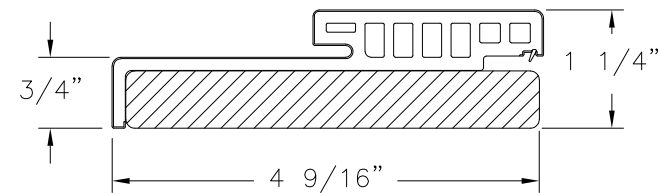
SAHARA INSWING THRESHOLD



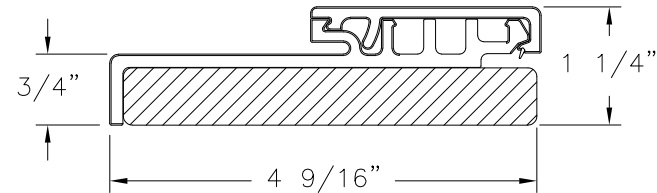
**FRAMESAVER
COMPOSITE**



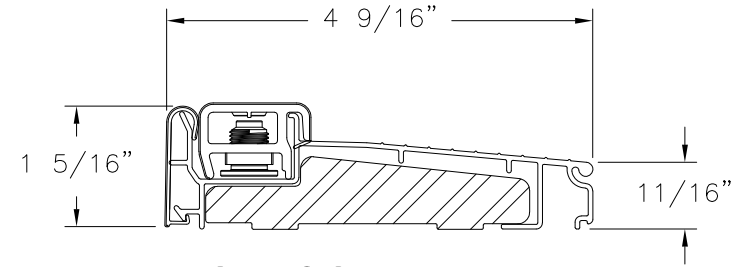
ADA THRESHOLD



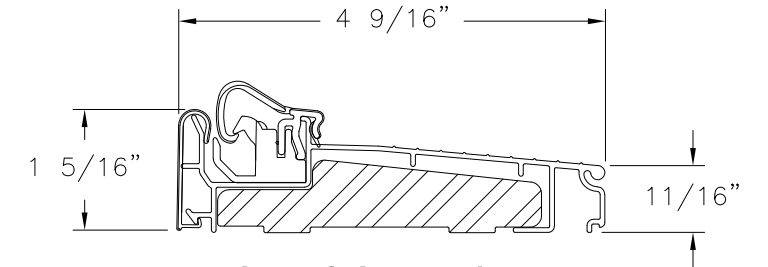
**HYBRID HEAD
WOOD/COMPOSITE**



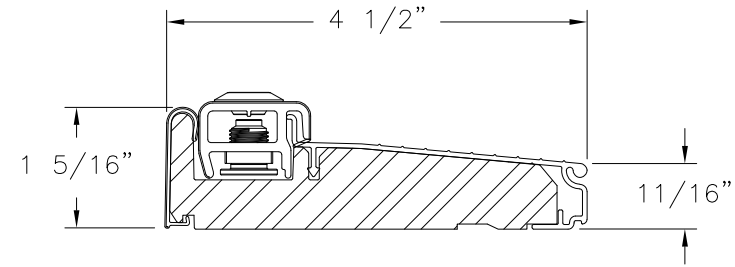
**HYBRID JAMB
WOOD/COMPOSITE**



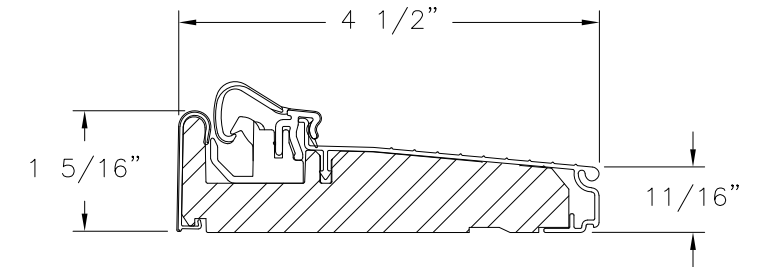
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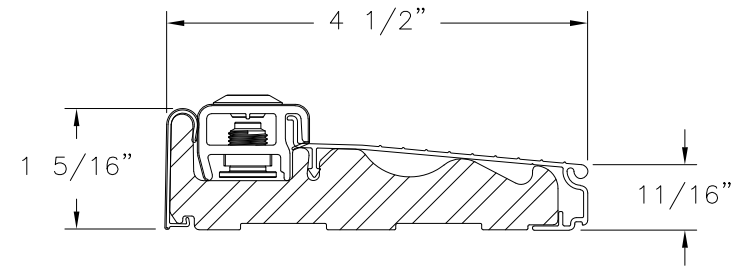
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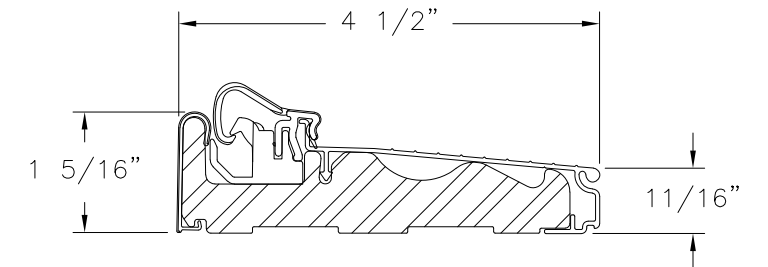
INSWING SILL ZAI4565F



INSWING SILL ZAC4565F



INSWING SILL ZAILH4565



INSWING SILL ZACLH4565

SIGNED: 11/27/2023

PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOOR
SINGLE & DOUBLE NON-IMPACT
COMPONENTS

DRAWN: J.L.	DWG NO. 08-02080	REV H
SCALE NTS	DATE 06/19/13	SHEET 9 OF 9

L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com



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