

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED HARDWARE SCHEDULE	09/14/26	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” 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. 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 UNIT FRAME 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: WOOD G=.46 MINIMUM SPECIFIC GRAVITY, OR COMPOSITE, OR FRAMESAVER OR FUSION FRAME.
DOOR SKIN MATERIAL: STEEL .033” THICK (MINIMUM), FIBERGLASS .085” THICK (MINIMUM)
SIDELITE SKIN MATERIAL: STEEL .022” THICK (MINIMUM)
11. UNITS MUST BE GLAZED PER ASTM E1300, WITH SAFETY GLAZING.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING THROUGH FRAME 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.
14. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 1/8” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. 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.
16. ALL FASTENERS TO BE CORROSION RESISTANT.
17. 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:
17.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
17.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
17.3. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
17.4. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5
FU=30KSI 1/8” THICK MINIMUM
18. APPROVED CONFIGURATIONS: X, OX, XO, XX, OXO, XOO, OOX.

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

FIBERGLASS PATIO DOOR
NON-IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-03785

REV
B

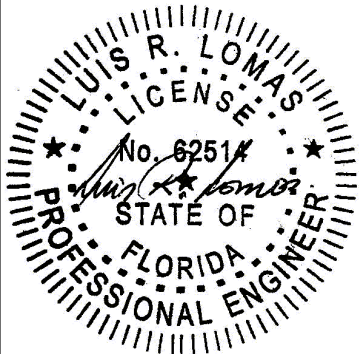
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DATE 08/18/2021

SHEET 1 OF 8

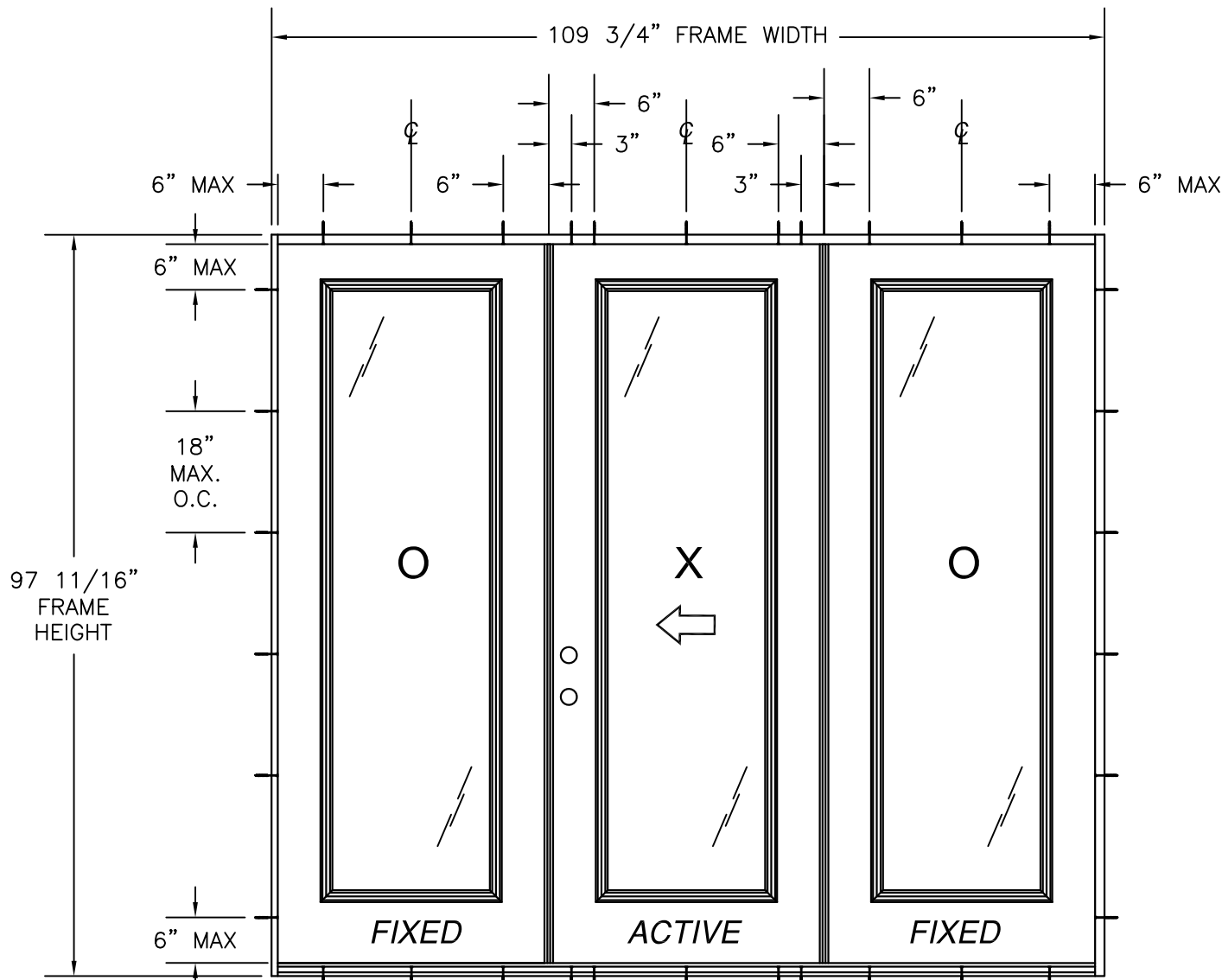
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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/14/2026



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

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- NOTES:
- PANEL SIZE: 35 3/4" X 94 15/16"
 - D.L.O.: 21 1/8" X 79 1/4"

Anchors and anchor connectors corrosion resistance chart		
Exposure	Distance from coastal shoreline	
	0' up to 300'	>300' up to 3000'
Exterior - partially sheltered	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Exterior - open exposed	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-vented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-unvented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S

FIBERGLASS PATIO DOOR OXO
EXTERIOR VIEW

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	

HARDWARE SCHEDULE	
A.	F-SERIES & FC-SERIES LOCK ASSEMBLY DOOR KNOB BY SCHLAGE
B.	B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
C.	F-SERIES & FC-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
D.	RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY BY EMTEK (ALTERNATE)
E.	MULTI-POINT HANDLE ASSEMBLY BY TRILENNIUM (ALTERNATE)
F.	PANOLOCK MULTI-POINT LOCK 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)

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FIBERGLASS PATIO DOOR
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ELEVATION AND GLAZING DETAILS

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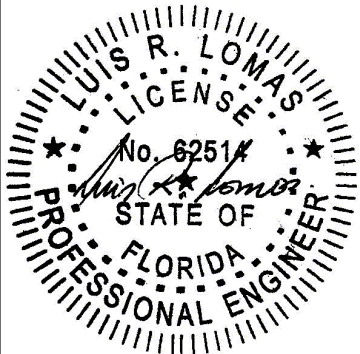
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SHEET
2 OF 8

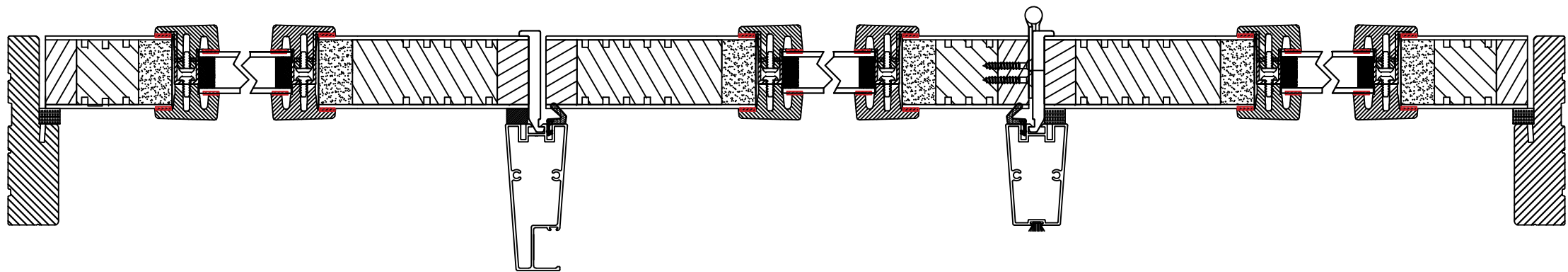
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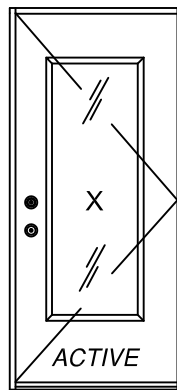


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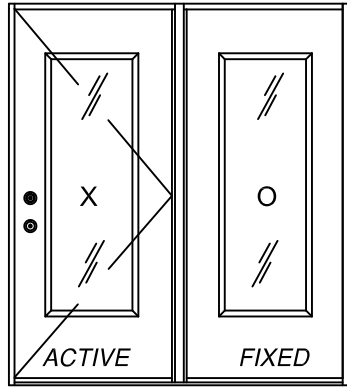
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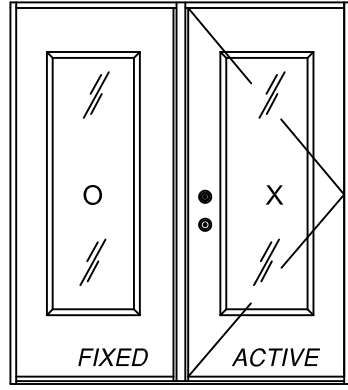
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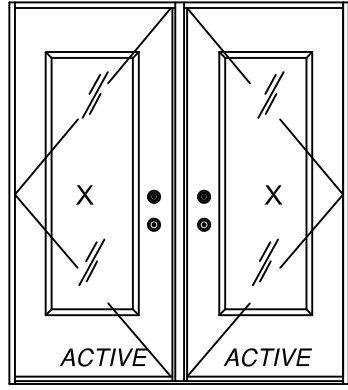
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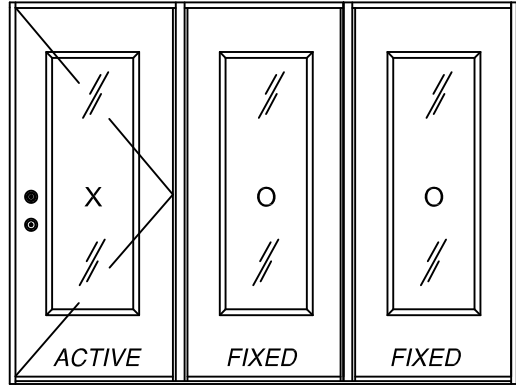
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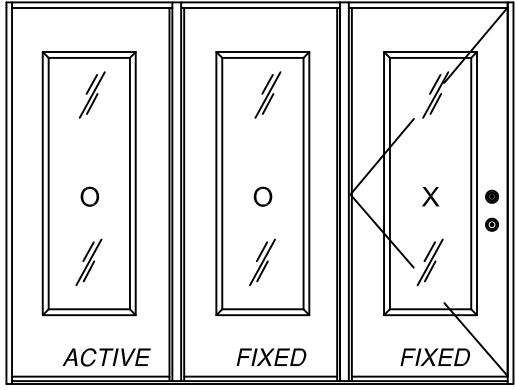
SINGLE W/SIDELITE



SINGLE W/SIDELITE

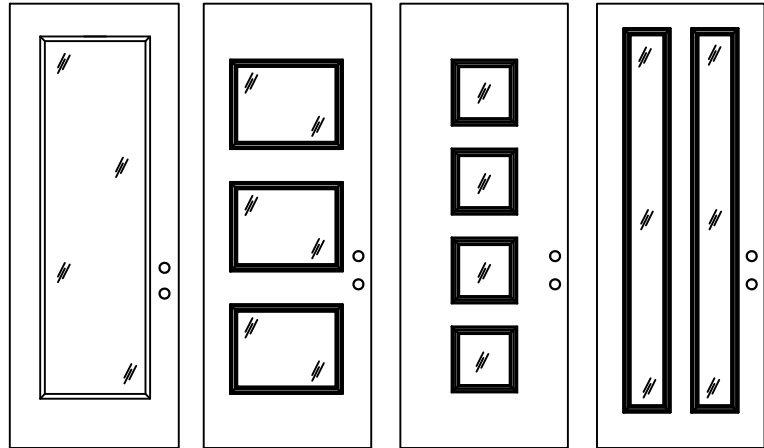


SINGLE W/SIDELITES



SINGLE W/SIDELITES

APPROVED LITE CONFIGURATIONS



FULL LITE

3 LITE

4 LITE

2 LITE

LITE CONFIGURATIONS SHOWN ARE FOR REFERENCE ONLY. MULTIPLE LITE CONFIGURATIONS ARE APPROVED AS LONG AS LITE SIZE DOES NOT EXCEED 11.62 FT²

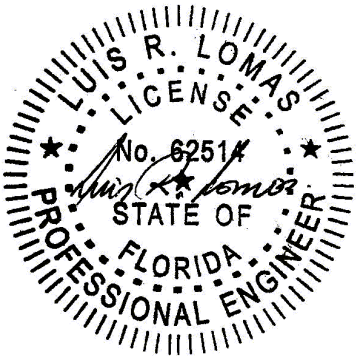
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FIBERGLASS PATIO DOOR
NON-IMPACT
APPROVED CONFIGURATIONS, SLABS & TRIMS

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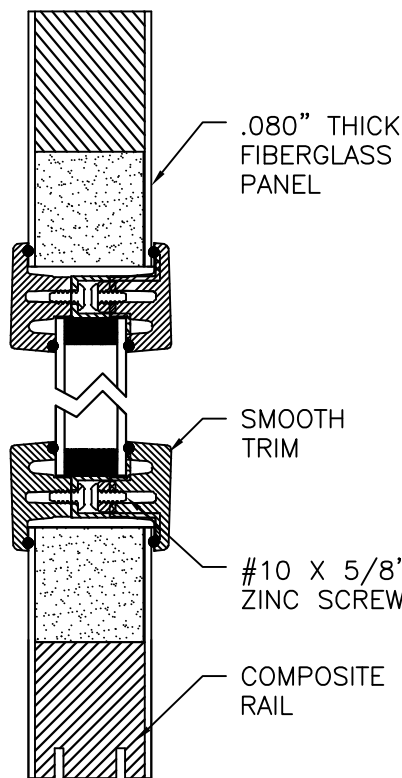
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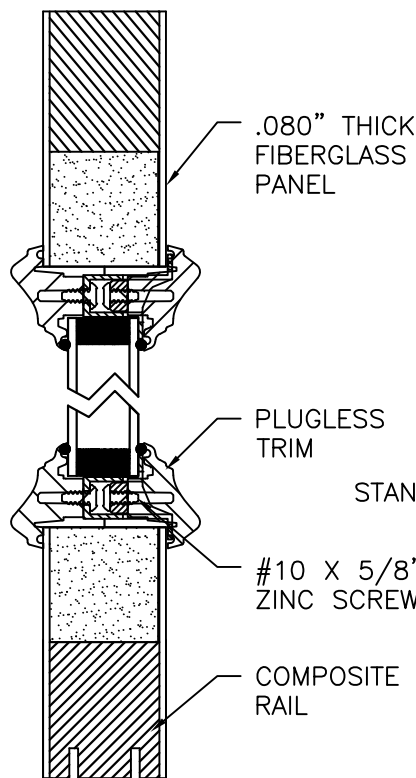
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APPROVED SLABS AND TRIMS

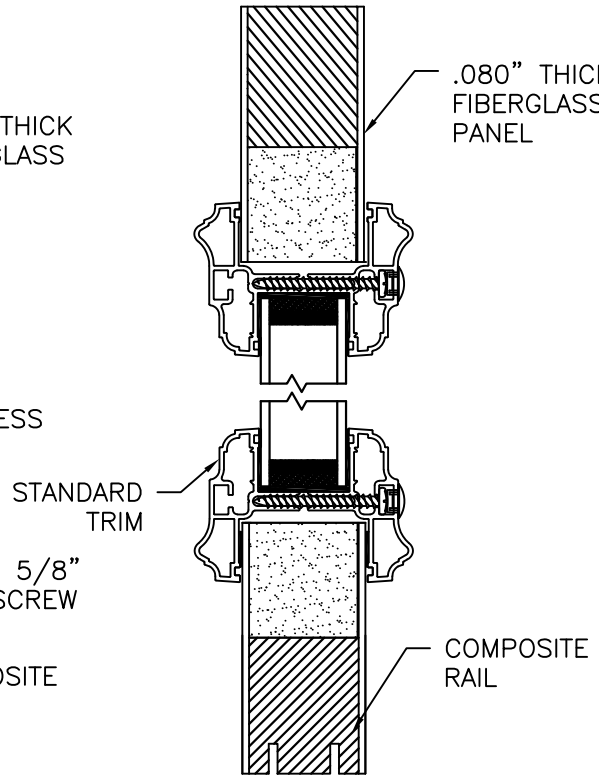
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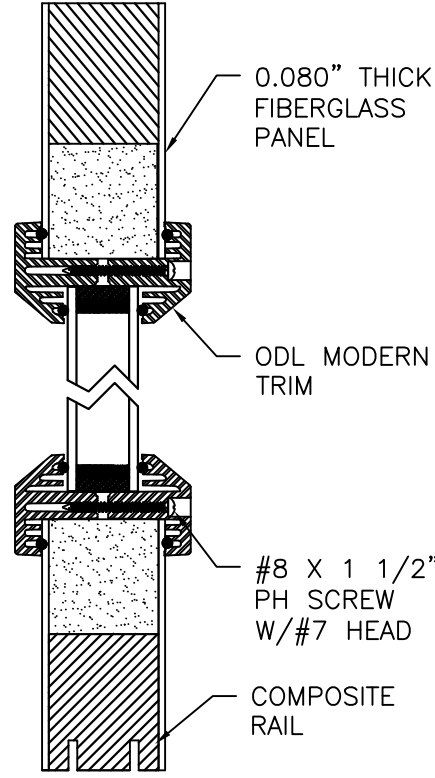
OPTION 1
SMOOTH TRIM



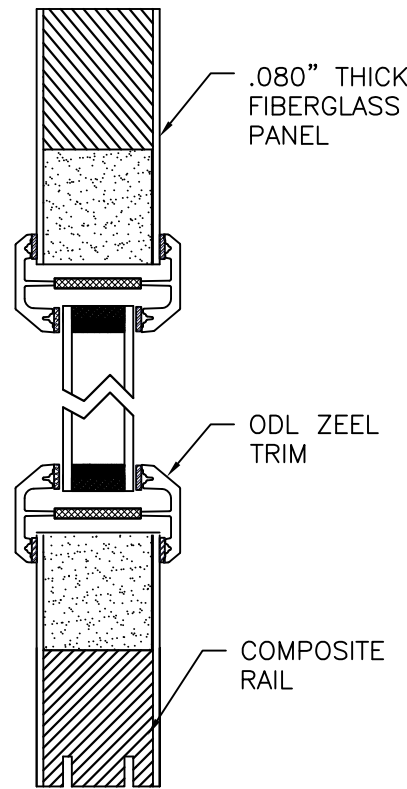
OPTION 2
PLUGLESS TRIM



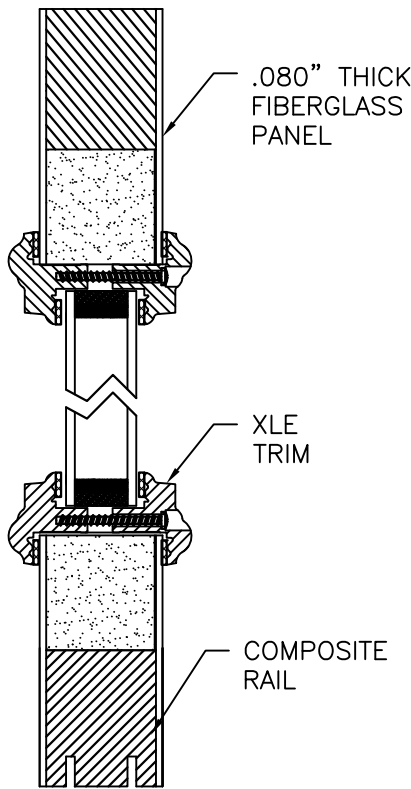
OPTION 3
STANDARD TRIM



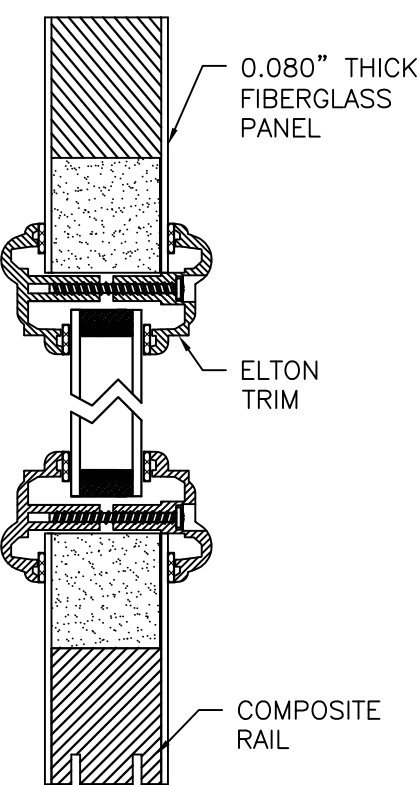
OPTION 4
ODL MODERN TRIM



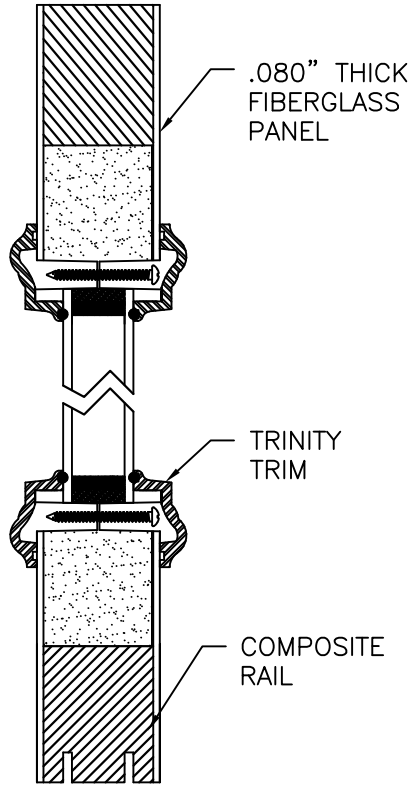
OPTION 9
ODL ZEEL TRIM



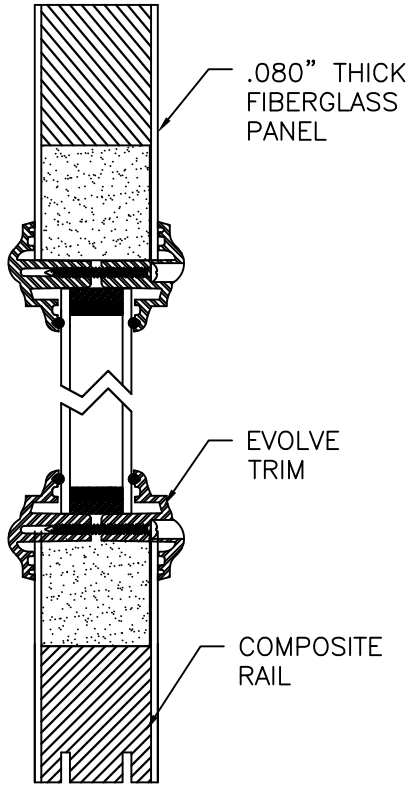
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XLE TRIM



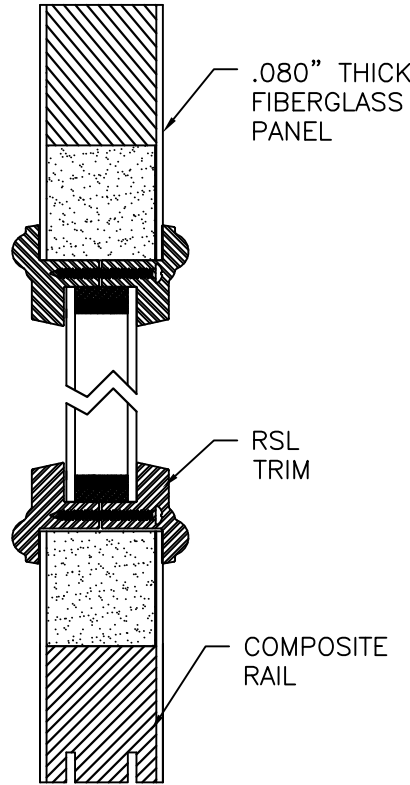
OPTION 5
ELTON TRIM



OPTION 6
TRINITY TRIM



OPTION 7
EVOLVE TRIM



OPTION 8
RSL TRIM

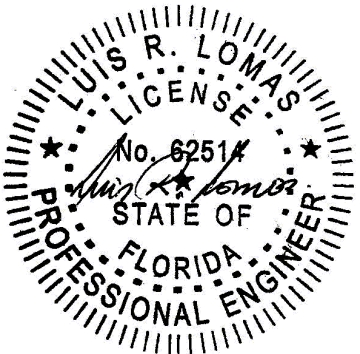
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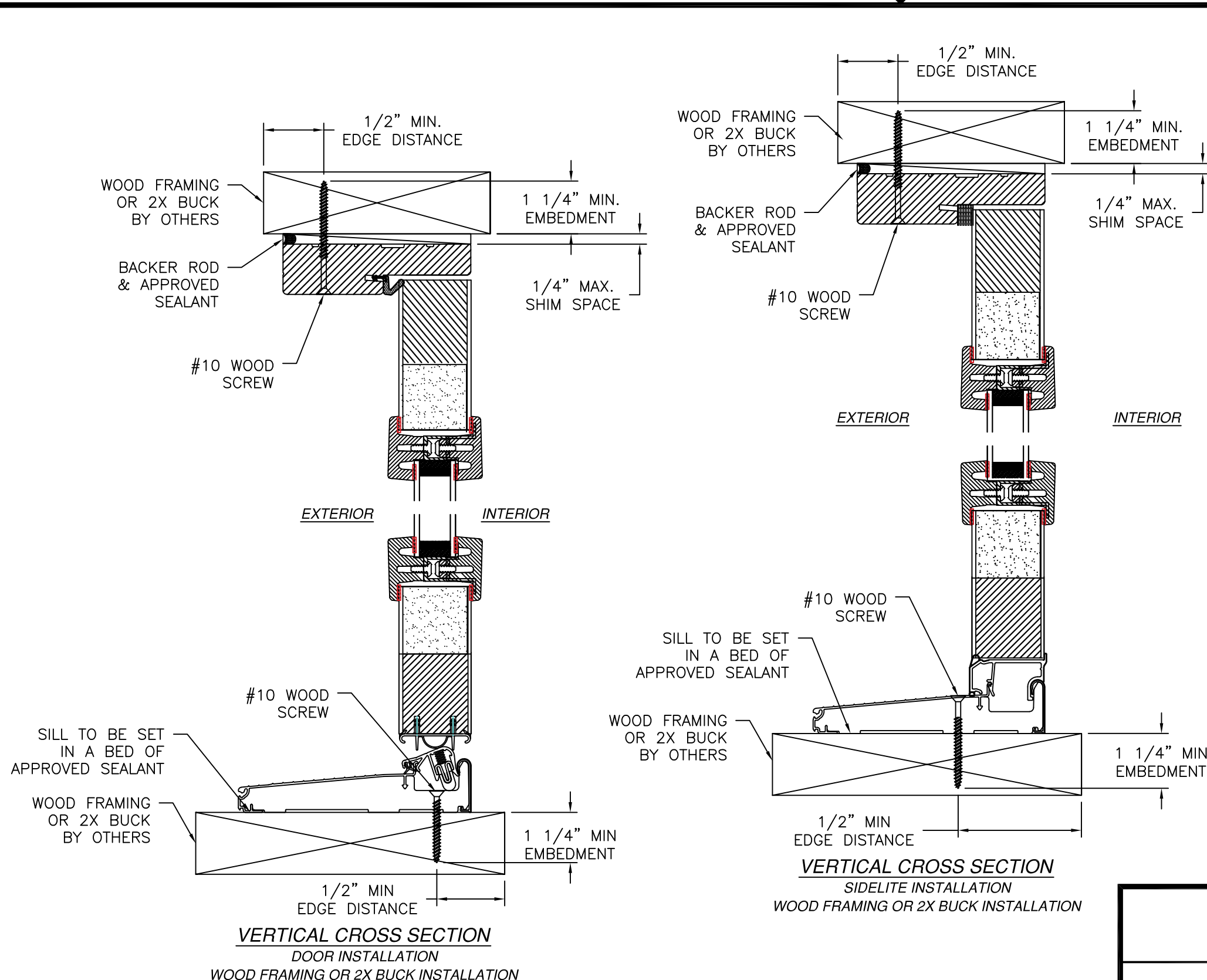
FIBERGLASS PATIO DOOR
NON-IMPACT
APPROVED CONFIGURATIONS, SLABS & TRIMS

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SCALE NTS	DATE 08/18/2021	SHEET 4 OF 8

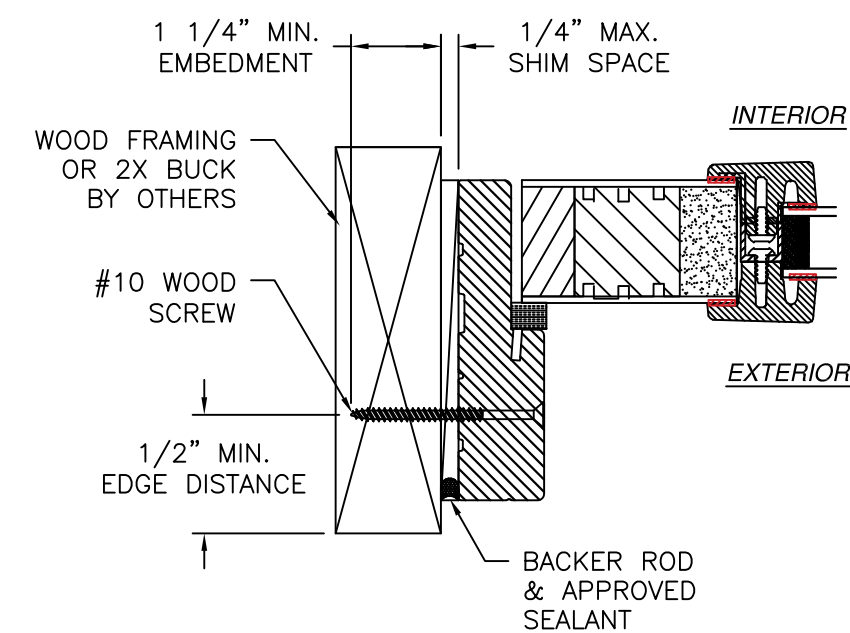
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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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
 3. INSTALLATION DETAILS WITH GLAZING TAPE SHOWN, GLAZING SEALANT SIMILAR

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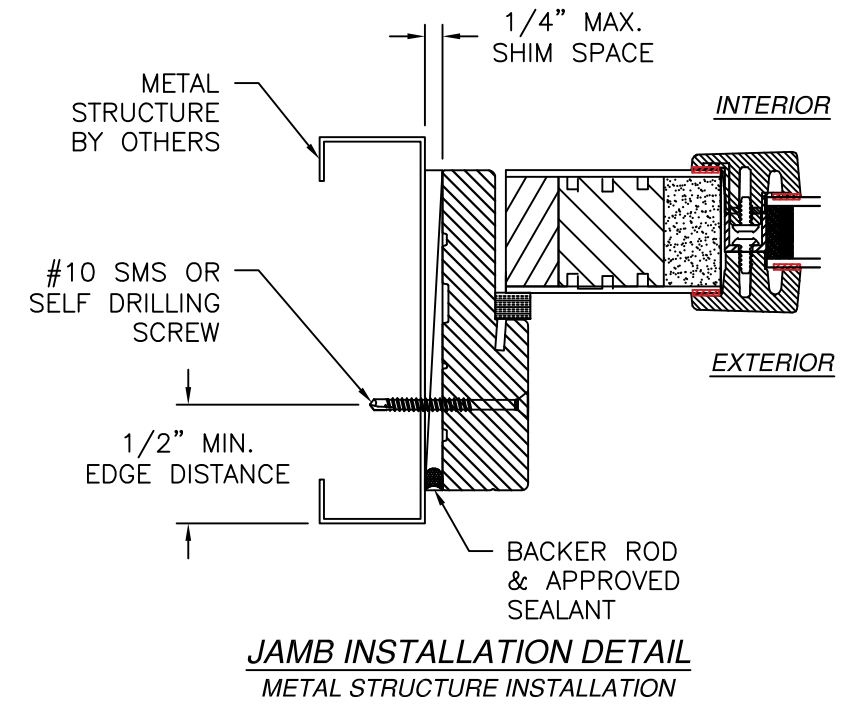
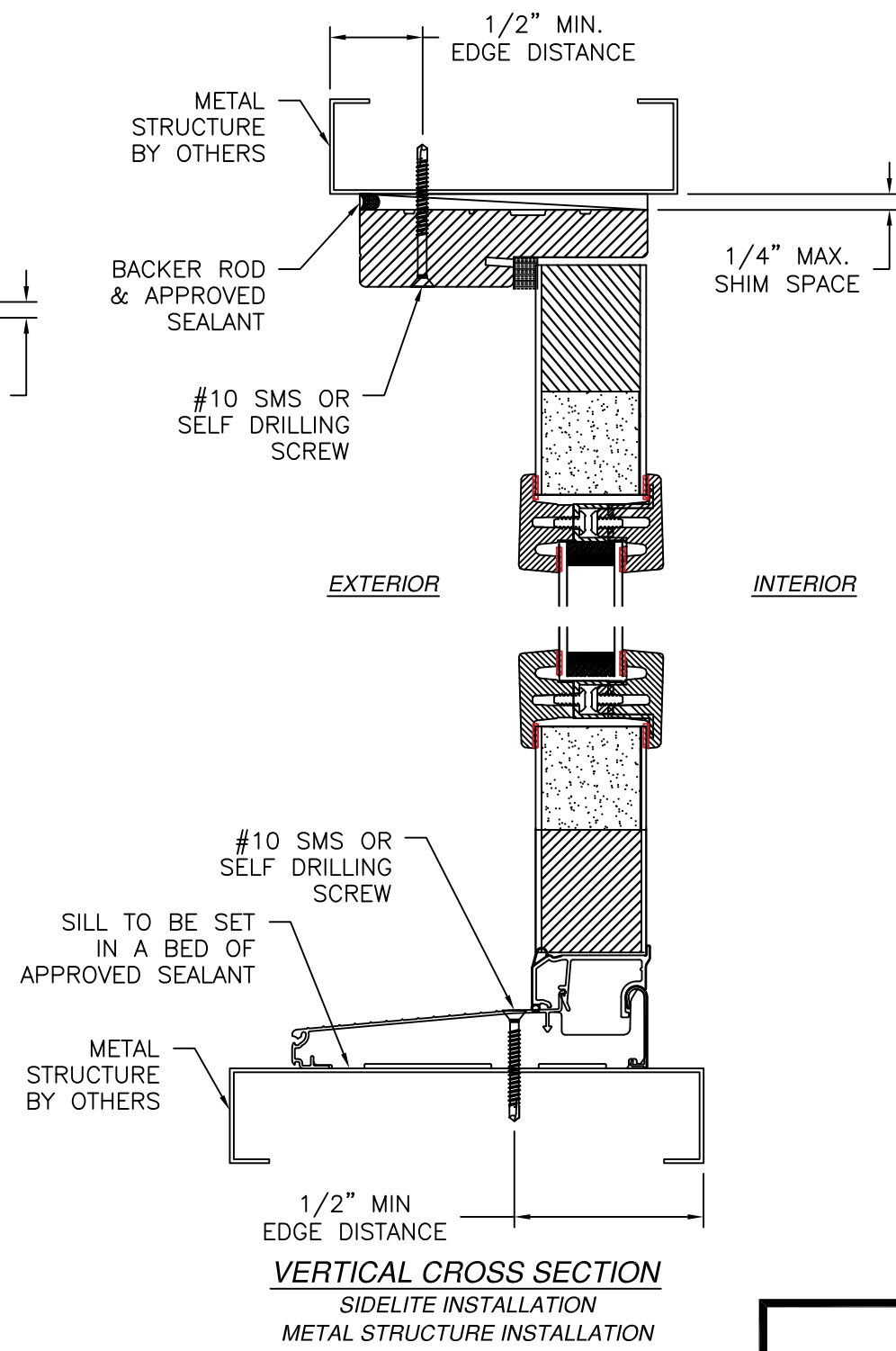
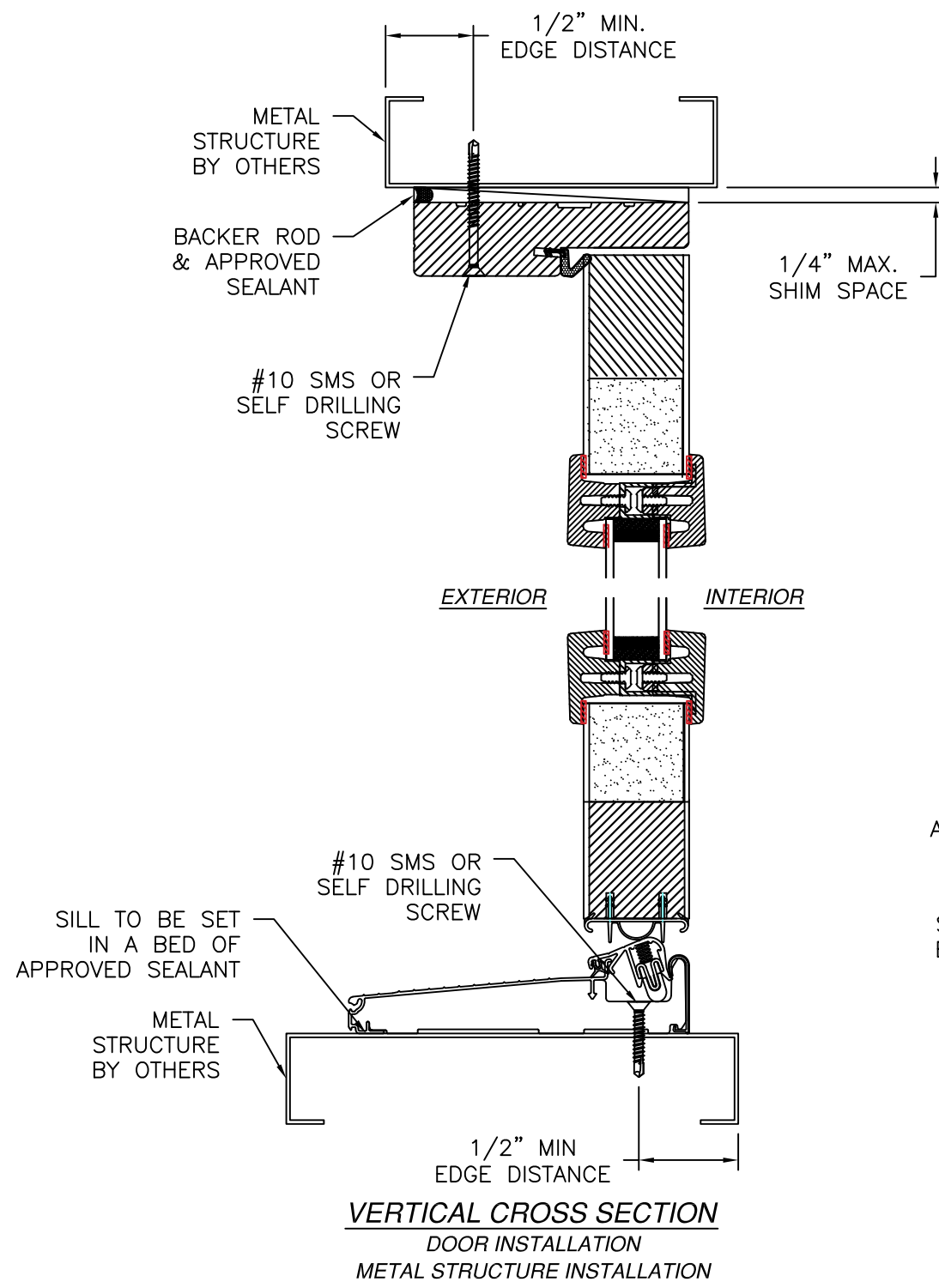
SHEET
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P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
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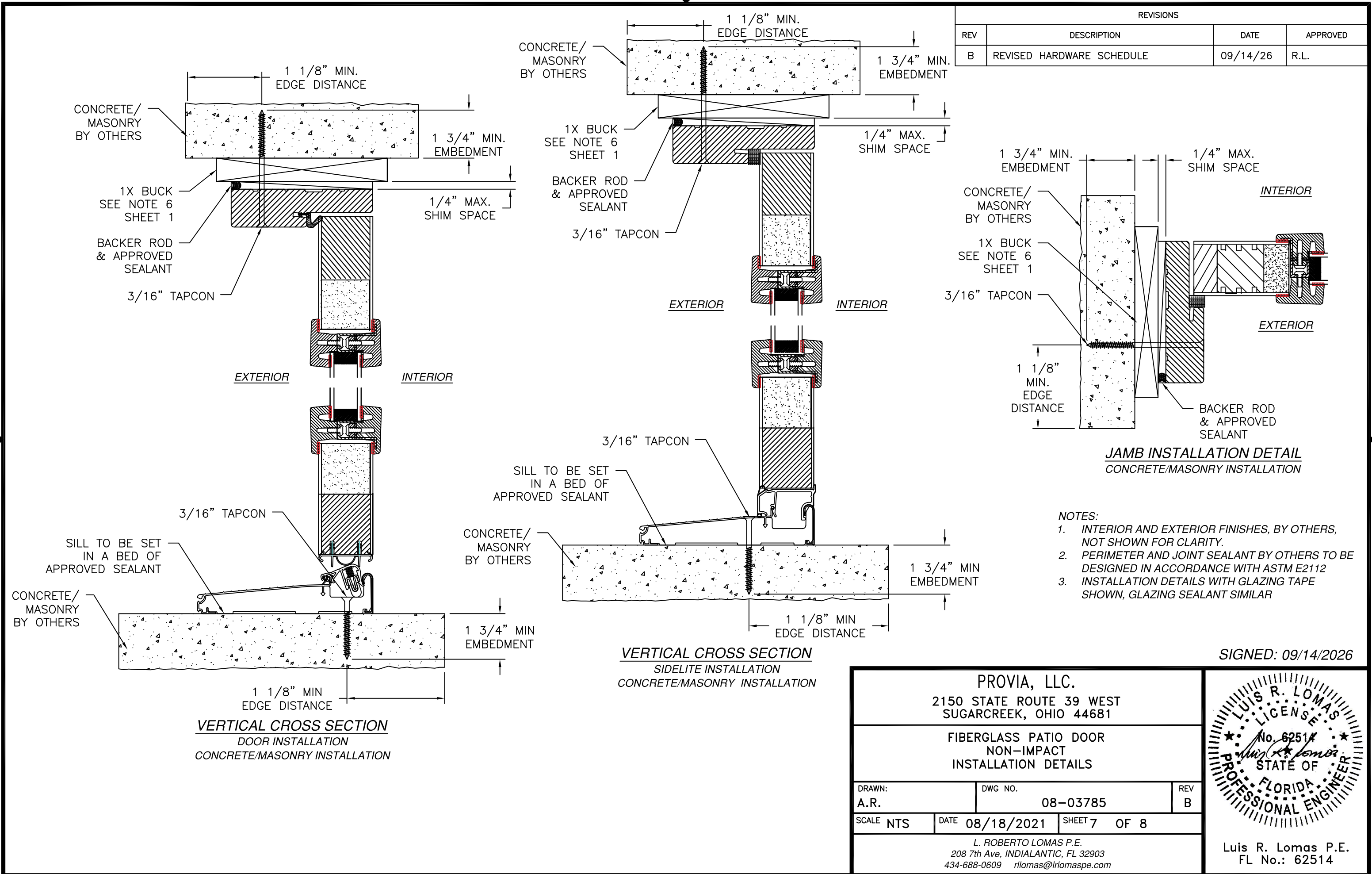
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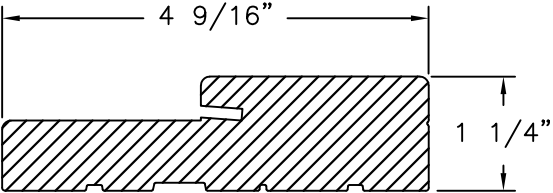
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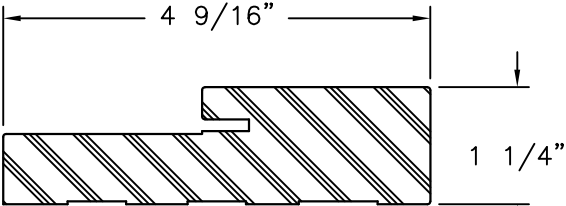
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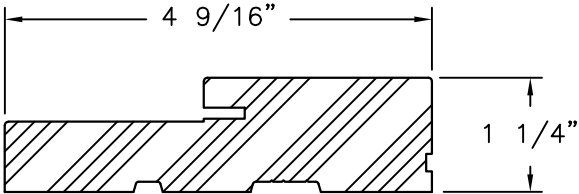
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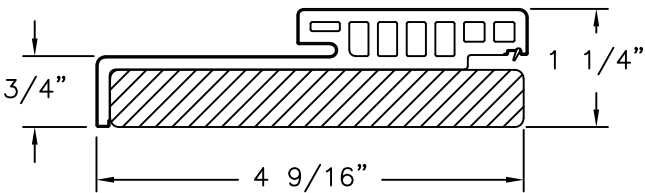
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COMPOSITE



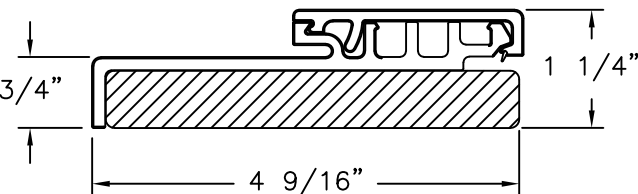
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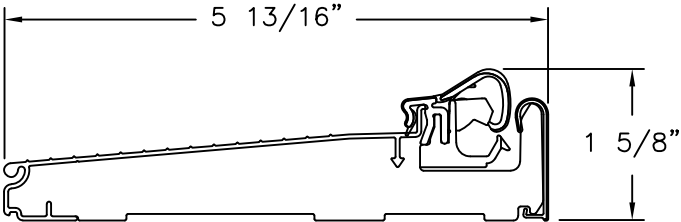
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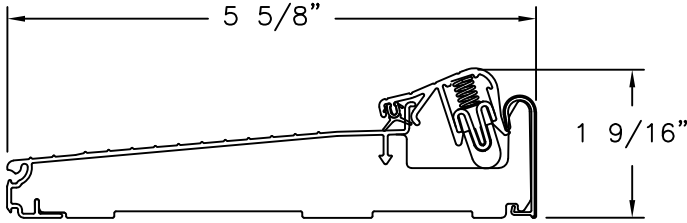
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WOOD/COMPOSITE



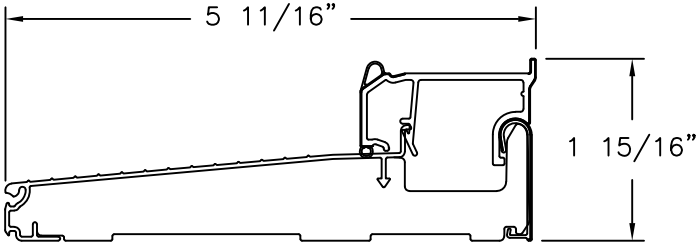
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WOOD/COMPOSITE



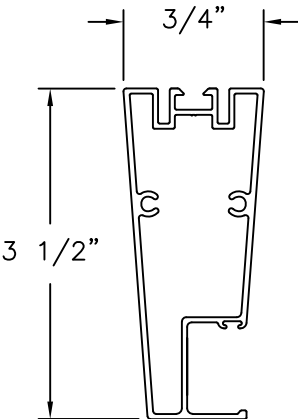
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ARTICULATING CAP



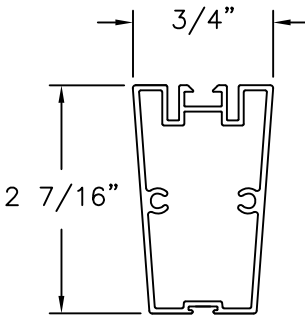
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ARTICULATING CAP



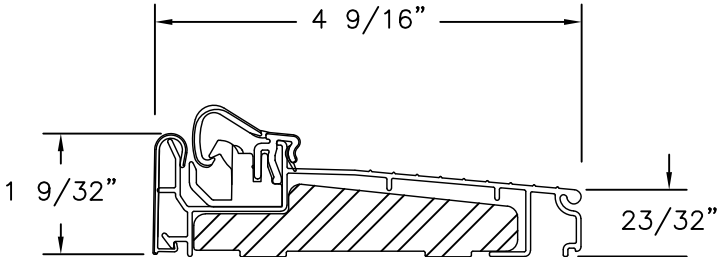
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I/S SIDELITE SILL CAP



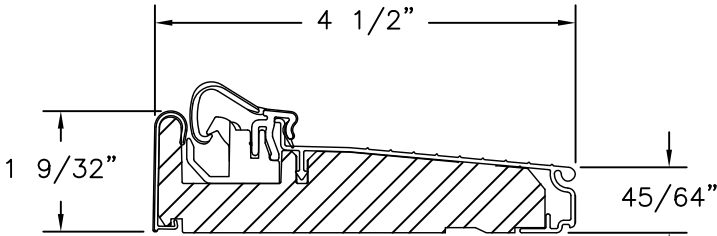
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ALUMINUM



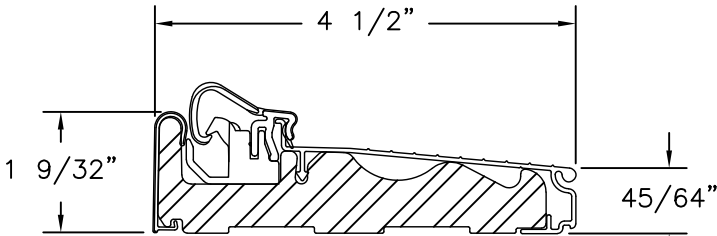
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ALUMINUM



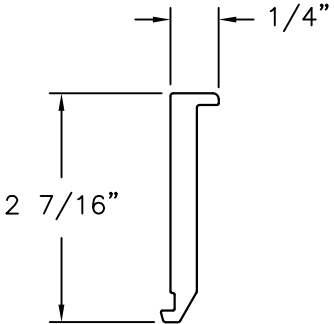
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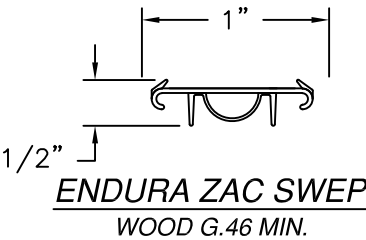
INSWING SILL ZAC4565F



INSWING SILL ZACLH4565



MULLION SPACER
PVC



ENDURA ZAC SWEP
WOOD G.46 MIN.

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A.R.

DWG NO.
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