

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

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 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 NEEDED. 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: ALUMINUM 6063-T5.
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 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 INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING 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.
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.A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 17.B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - 17.C. MASONRY: GROUT/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - 17.D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI 1/8" THICK MINIMUM
18. APPROVED CONFIGURATIONS: XXXX, XXX, XX.

SIGNED: 10/09/2025

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E6 GLOBAL IPA, LLC

12-1394, 369 GANGNAM-DAERO, SEOCHO-GU
SEOUL 06621, SOUTH KOREA

FD54 TWIN CORE ALUMINUM BIFOLD DOOR

NON-IMPACT HVHZ

NOTES

DRAWN:
R.L.

DWG NO.
08-04175

REV
-

SCALE NTS

DATE 09/19/25

SHEET 1 OF 8

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

LUIS R. LOMAS

LICENSE

No. 62514

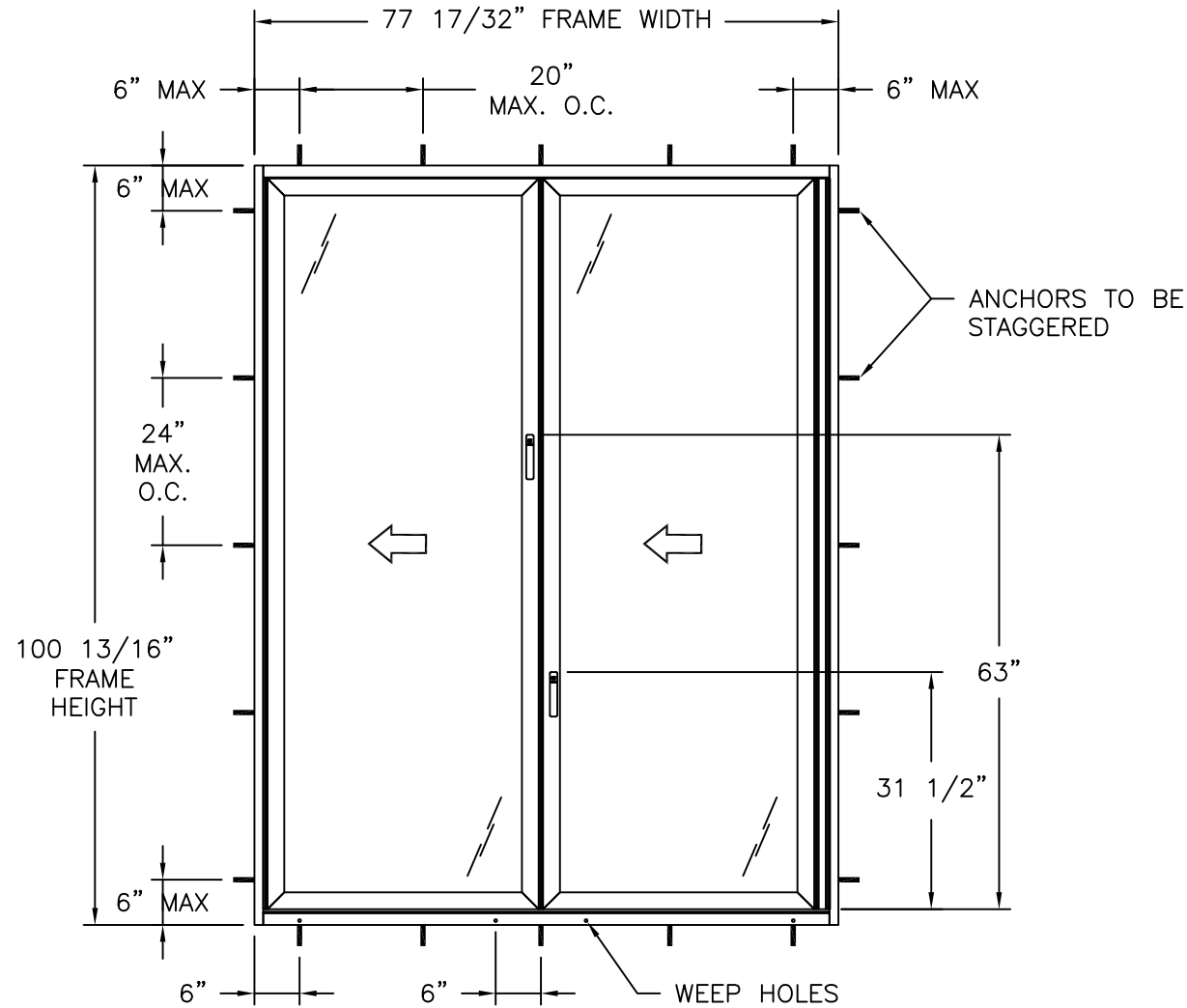
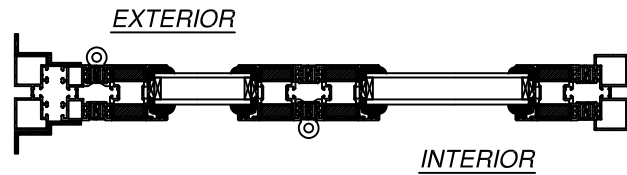
STATE OF

FLORIDA

PROFESSIONAL ENGINEER

Luis R. Lomas P.E.

FL No.: 62514



- NOTES:
- PANEL SIZE: 36" X 96"
 - D.L.O. SIZE: 32 3/8" X 92 3/8"

FD54 TWIN CORE ALUMINUM BIFOLD DOOR
INTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±60.0PSF	NONE

HARDWARE SCHEDULE

A.	HINGE (ALUMINUM 6063-T5), 24" ON CENTER
B.	HINGE WITH ROLLER, 4" FROM EACH END OF STILES ON PANELS
C.	MULTI-POINT LOCK SHOOT BOLTS AT HEAD AND SILL OF EACH PANEL AND AT HANDLE LOCATION
D.	ALUMINUM CLIP RUNNING FULL LENGTH OF JAMB
E.	L-BRACKET (ALUMINUM 6063-T5) AT FRAME JAMB
F.	HANDLE (ZINC) AT PANEL STILE
G.	ALUMINUM 6063-T5 PANEL REINFORCEMENT (TWIN CORE) AT TOP, BOTTOM RAIL AND STILES
H.	(2) ALUMINUM REINFORCEMENT BAR ON EACH RAIL AND STILE

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SEOUL 06621, SOUTH KOREA

FD54 TWIN CORE ALUMINUM BIFOLD DOOR
NON-IMPACT HVHZ
ELEVATION

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NTS

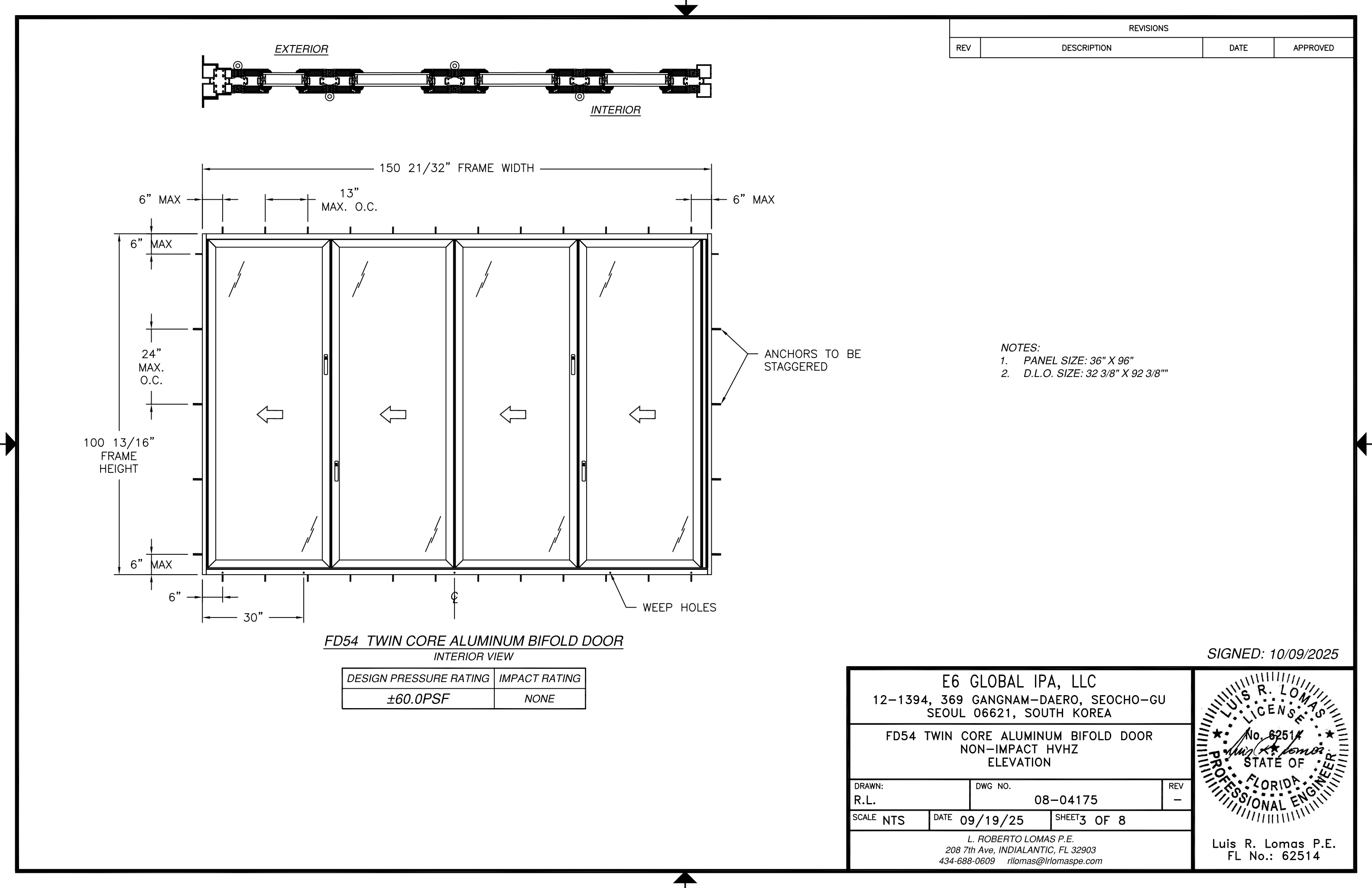
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SHEET
2 OF 8

L. ROBERTO LOMAS P.E.
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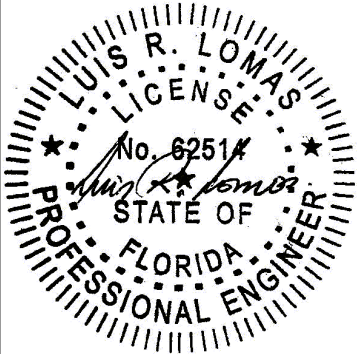
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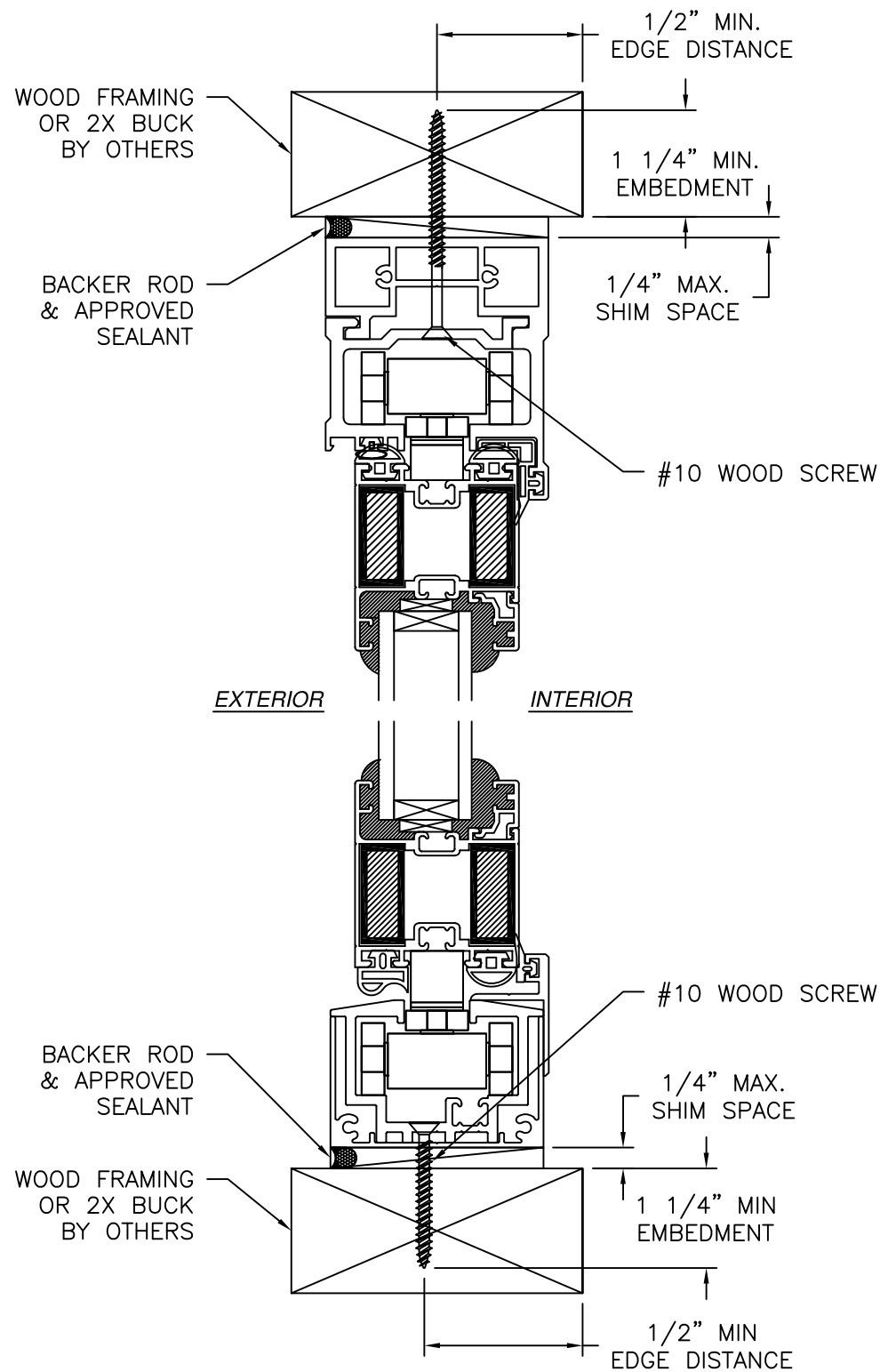
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FD54 TWIN CORE ALUMINUM BIFOLD DOOR NON-IMPACT HVHZ ELEVATION		
DRAWN: R.L.	DWG NO. 08-04175	REV -
SCALE NTS	DATE 09/19/25	SHEET 3 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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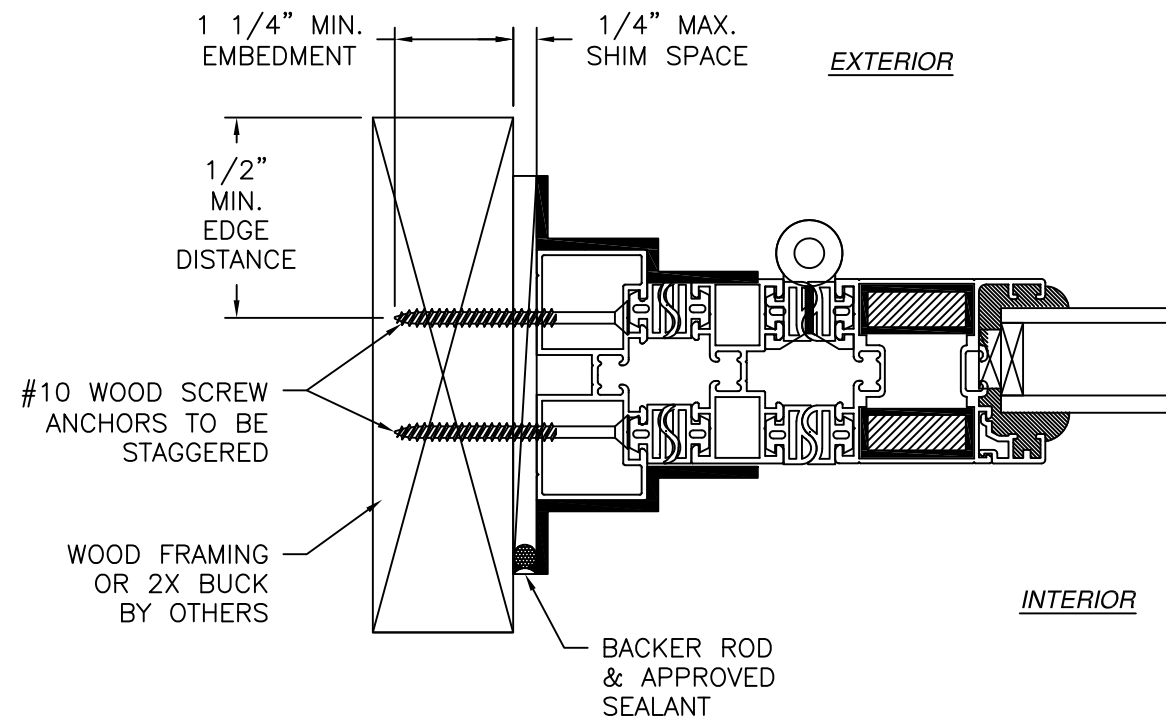


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

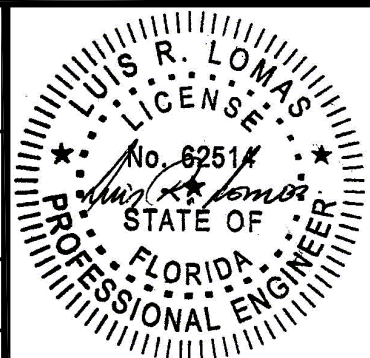


JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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

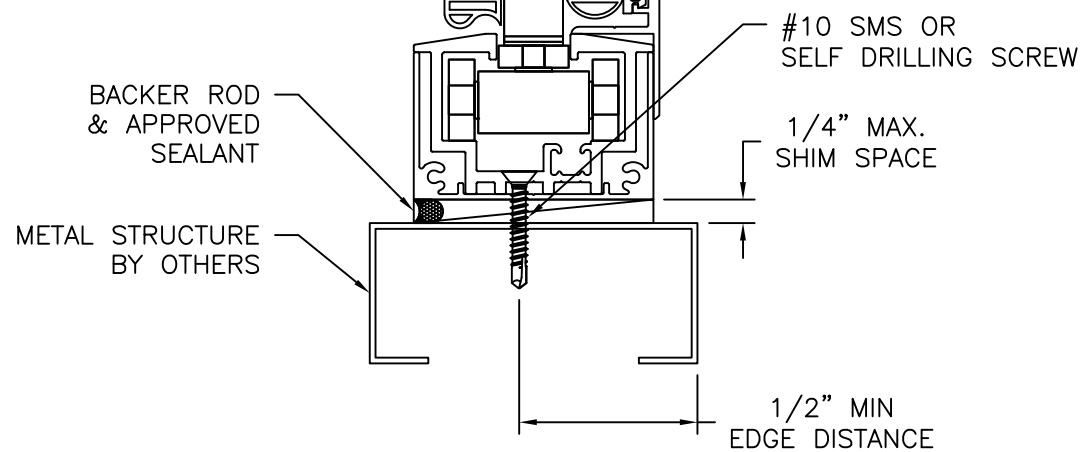
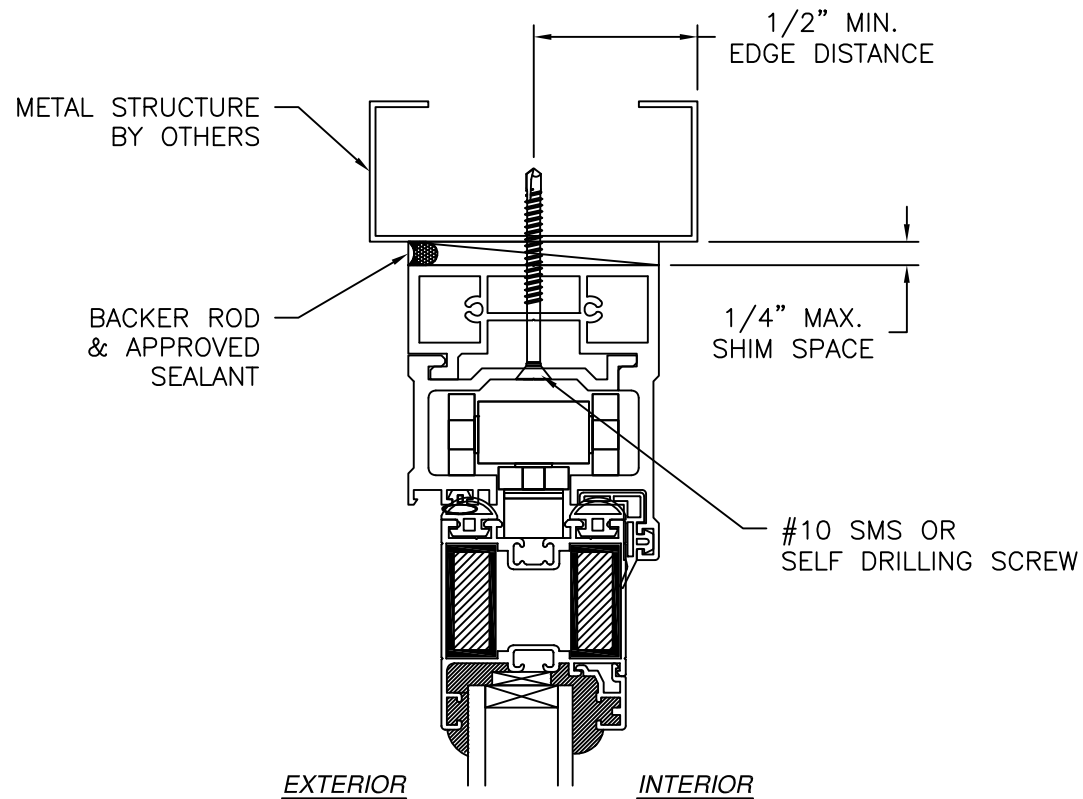
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FD54 TWIN CORE ALUMINUM BIFOLD DOOR NON-IMPACT HVHZ INSTALLATION DETAILS		
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

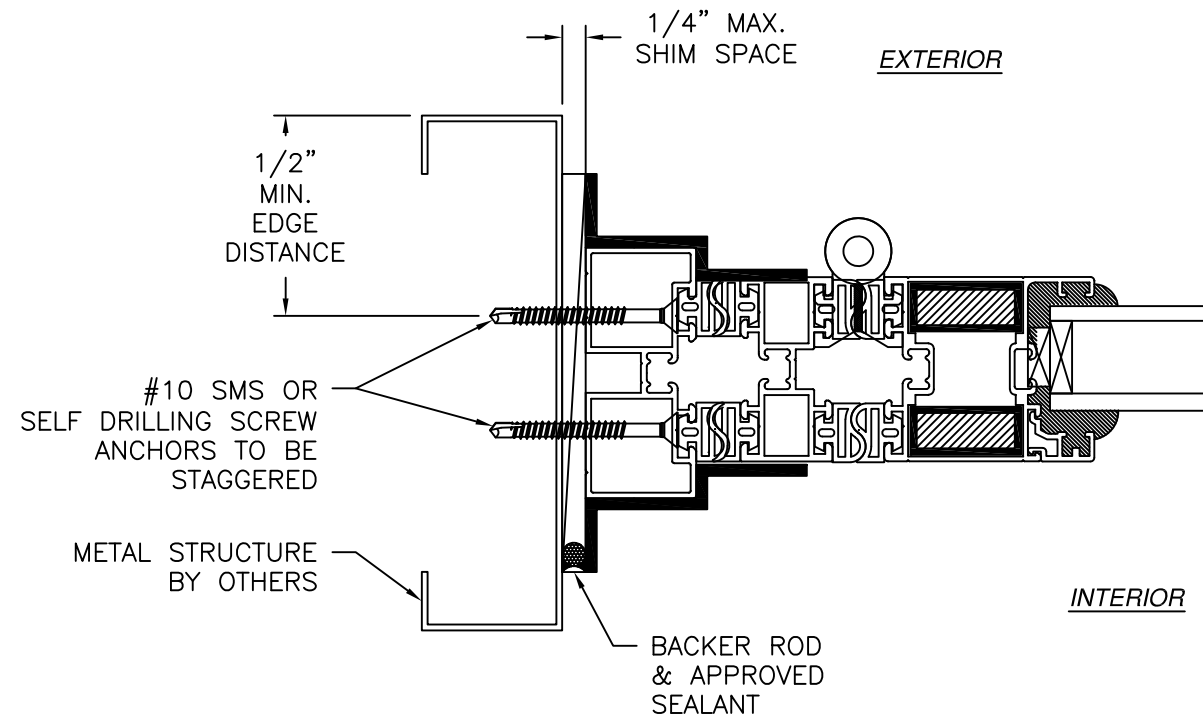


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



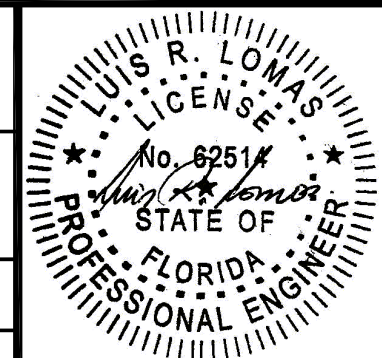
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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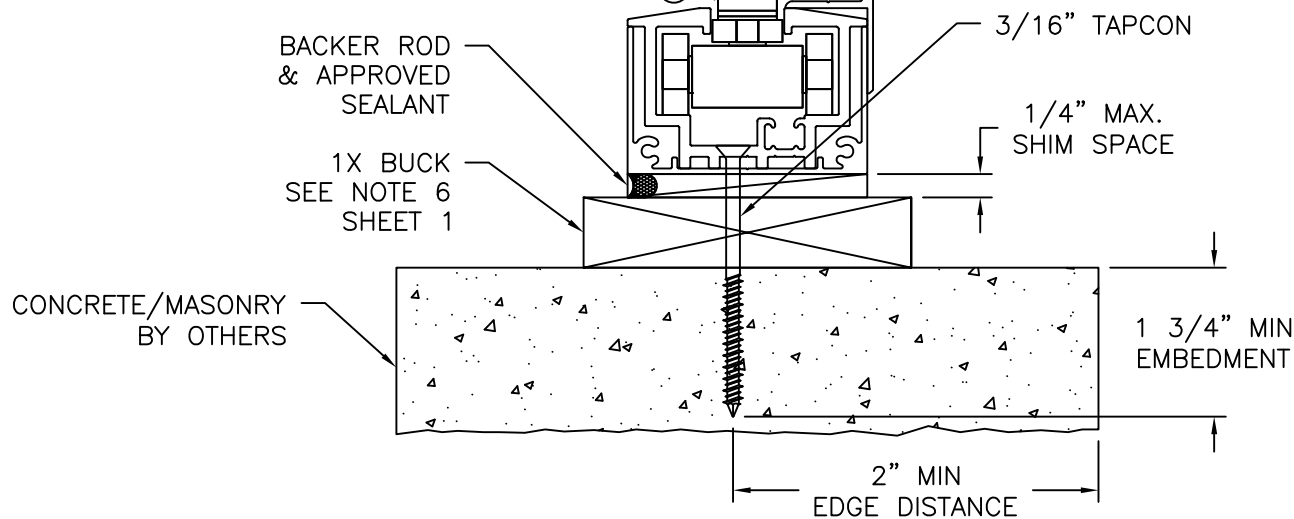
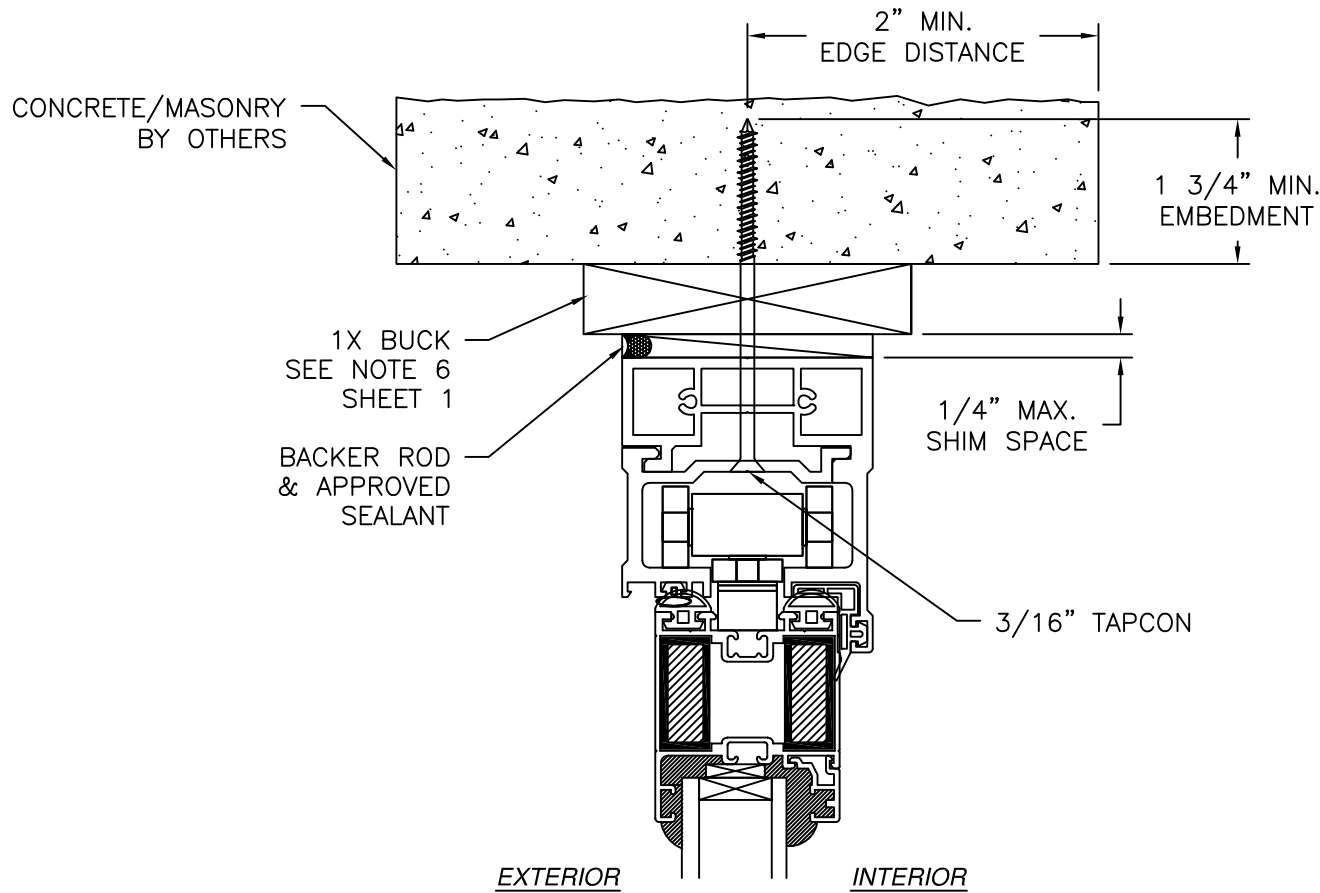
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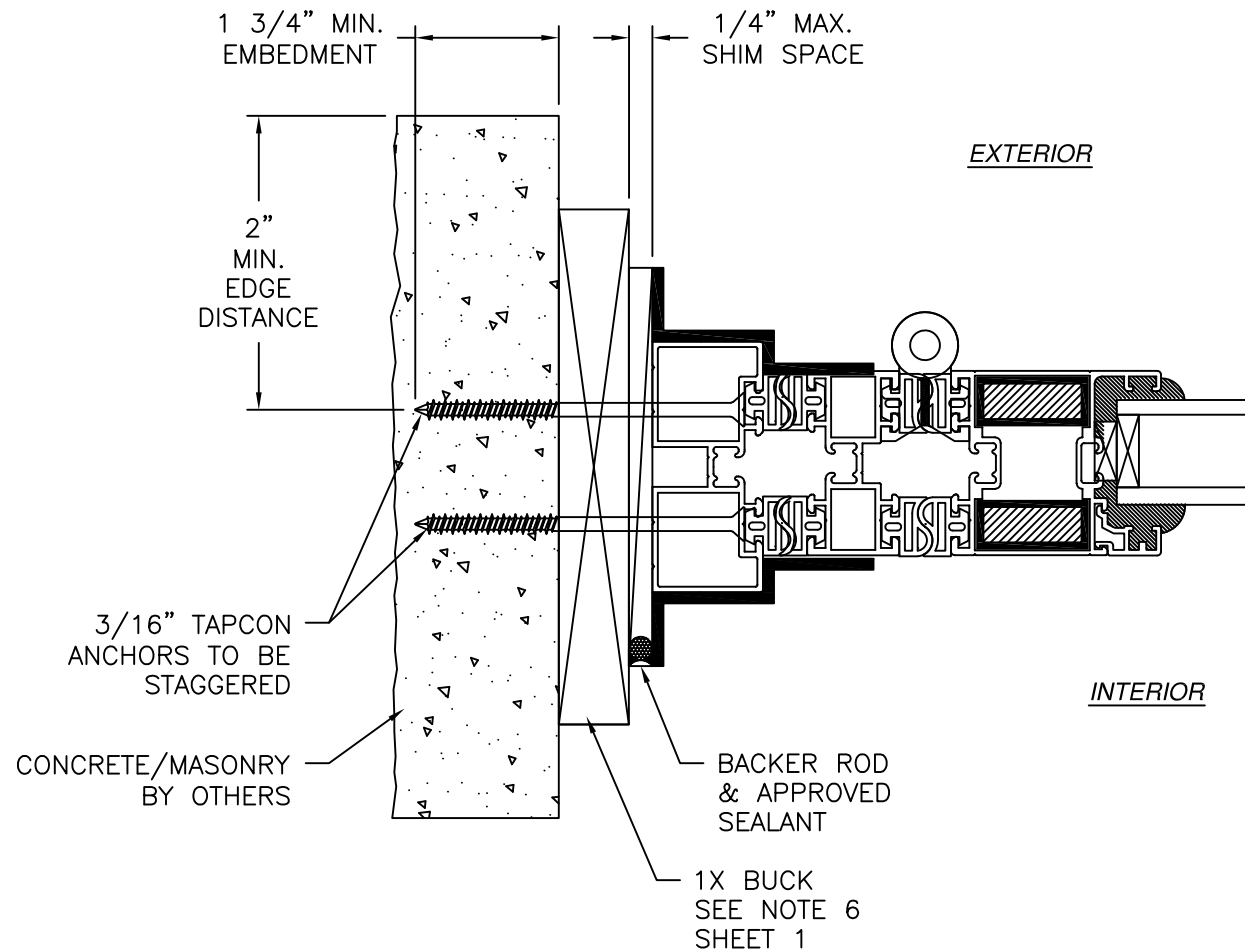


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VERTICAL CROSS SECTION
CONCRETE/MASONRY W/1X BUCK INSTALLATION

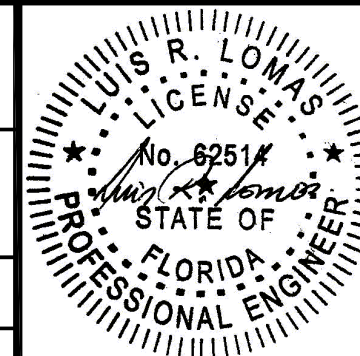


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY W/1X BUCK INSTALLATION

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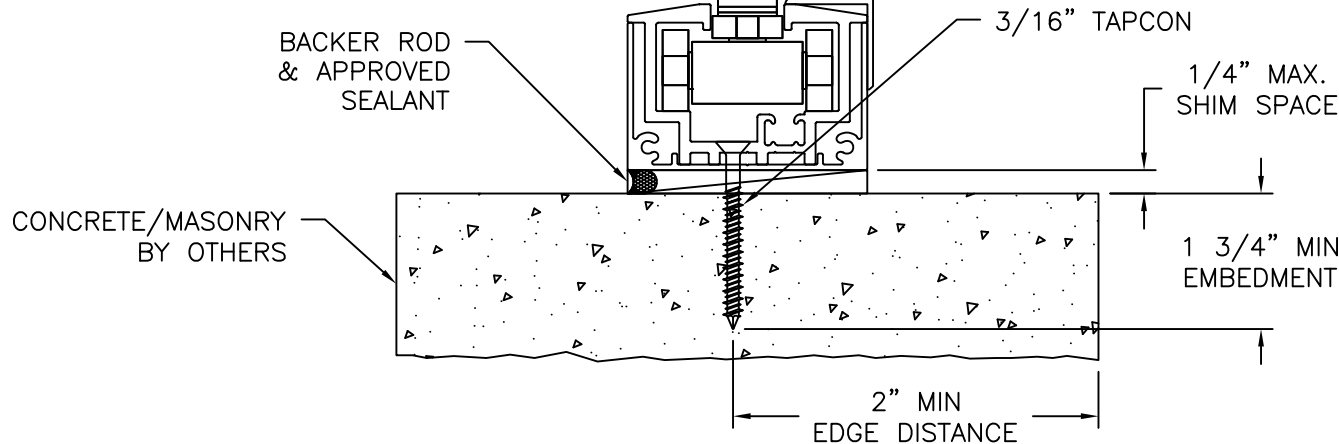
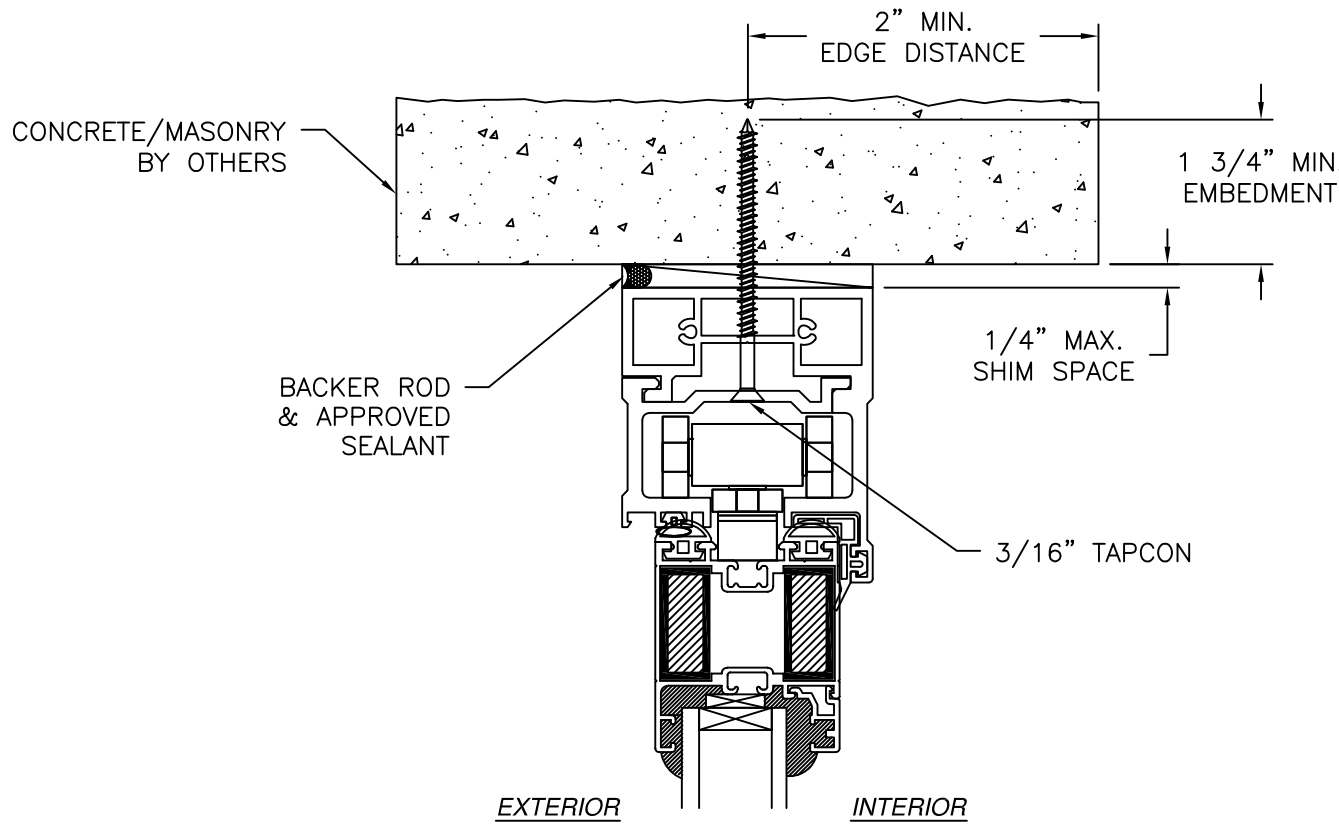
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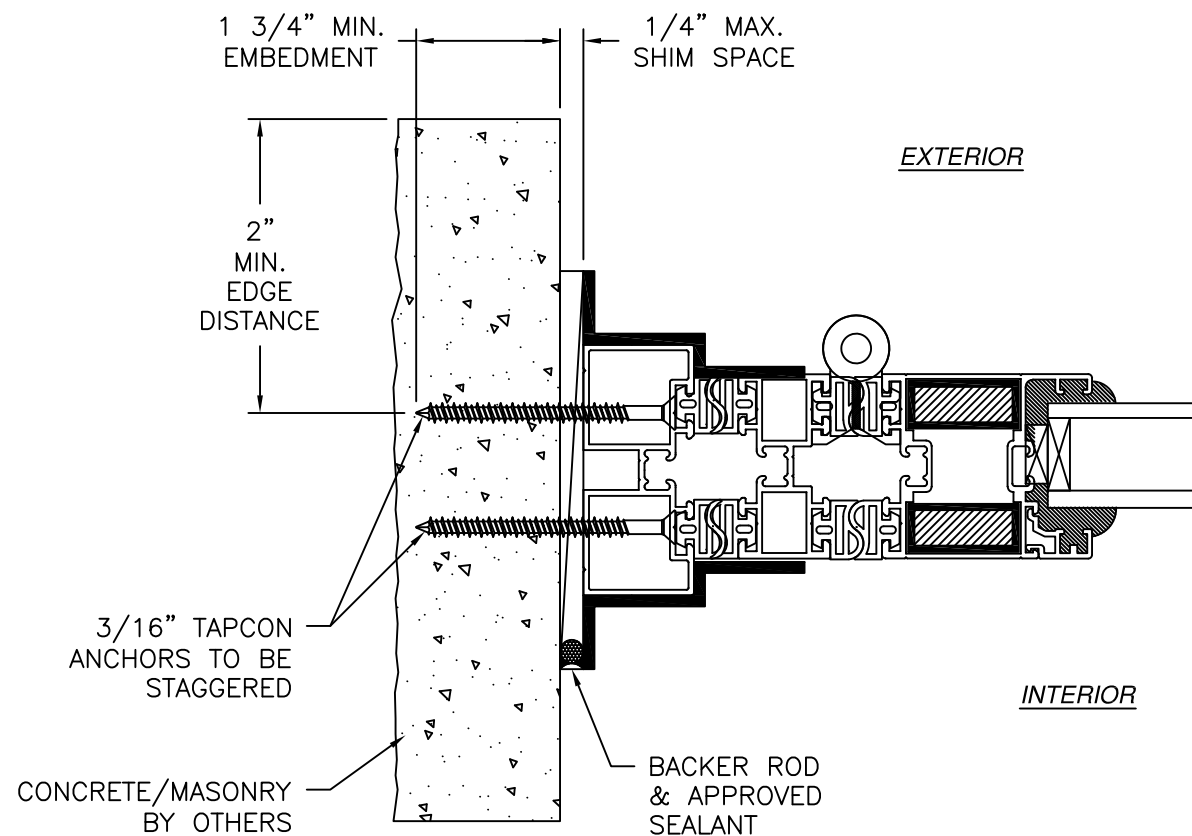


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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



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FD54 TWIN CORE ALUMINUM BIFOLD DOOR
NON-IMPACT HVHZ
INSTALLATON DETAILS

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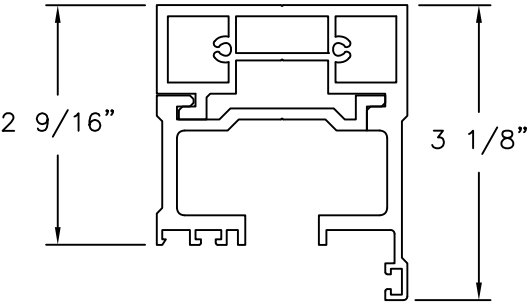
FLORIDA

PROFESSIONAL ENGINEER

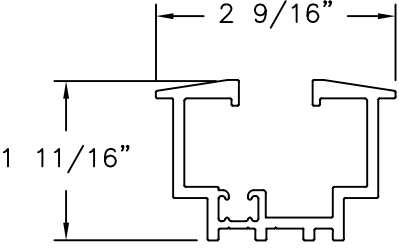
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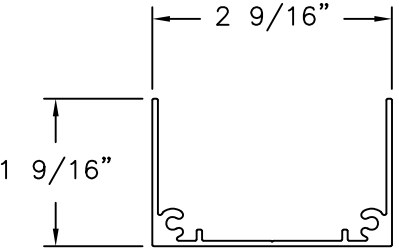
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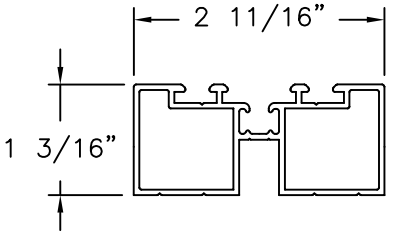
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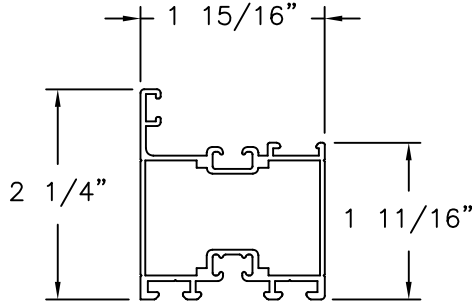
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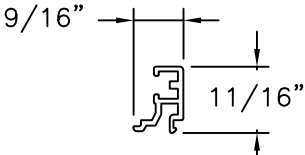
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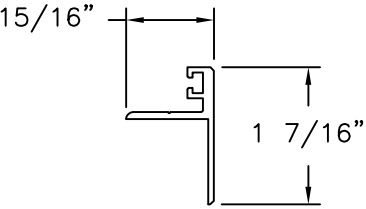
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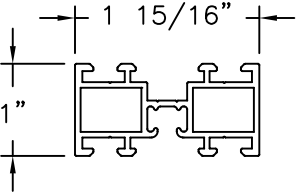
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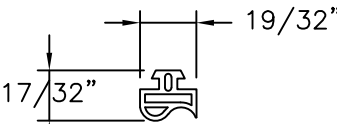
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ALUMINUM 6063-T5



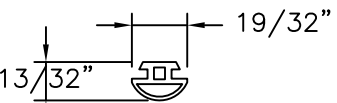
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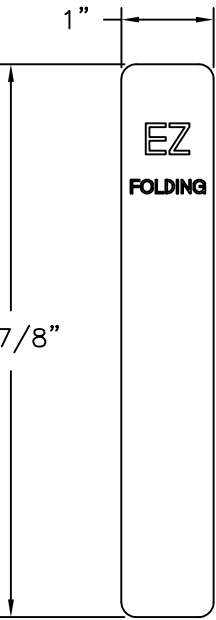
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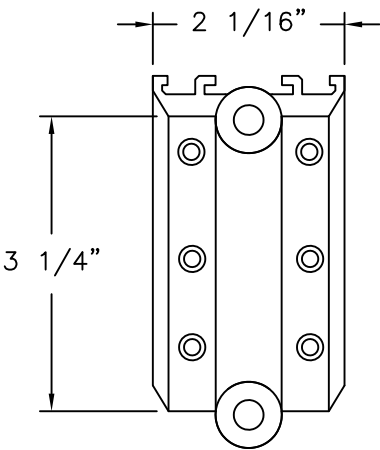
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RUBBER



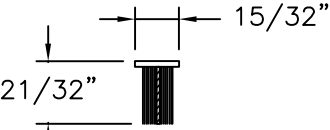
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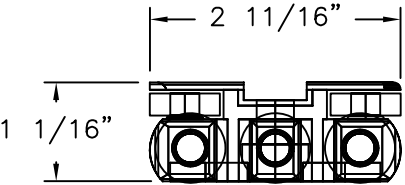
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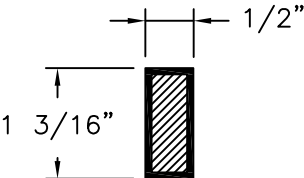
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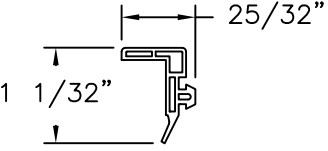
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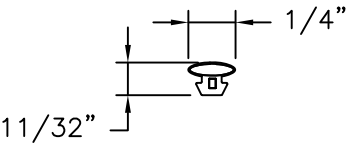
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STAINLESS STEEL



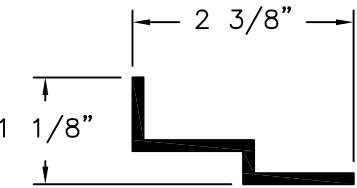
TWIN CORE
ALUMINUM 6063-T5



TOP TRACK GASKET
RUBBER



O SHAPE GASKET
RUBBER



L BRACKET
ALUMINUM 6063-T5

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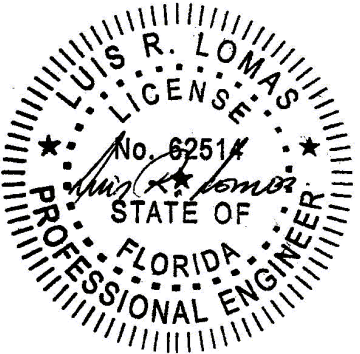
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