

| REVISIONS |                       |          |          |
|-----------|-----------------------|----------|----------|
| REV       | DESCRIPTION           | DATE     | APPROVED |
| D         | ADDED CORROSION CHART | 09/04/26 | 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. 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. 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".
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 ALUMINUM 6063-T5.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 2 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS. WHEN INSTALLED AT 30FT OR HIGHER ABOVE GROUND LEVEL.
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 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING THROUGH FRAME 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:
  - A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
  - C. MASONRY: HOLLOW/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 1/8" THICK MINIMUM

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| 6                 | COMPONENTS                   |

US ALUMINUM

950 SOLON RD.  
WAXAHACHIE, TX 75165

D900 THERMALLY IMPROVED ALUMINUM  
ARCHITECTURAL TERRACE DOOR SMI  
NOTES

DRAWN:  
A.R.

DWG NO.  
08-03200

REV  
D

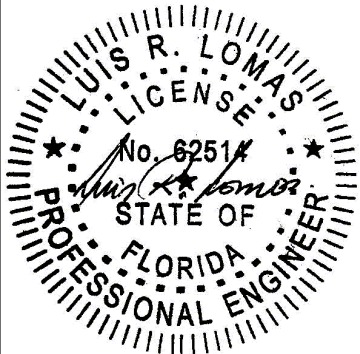
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DATE 03/07/18

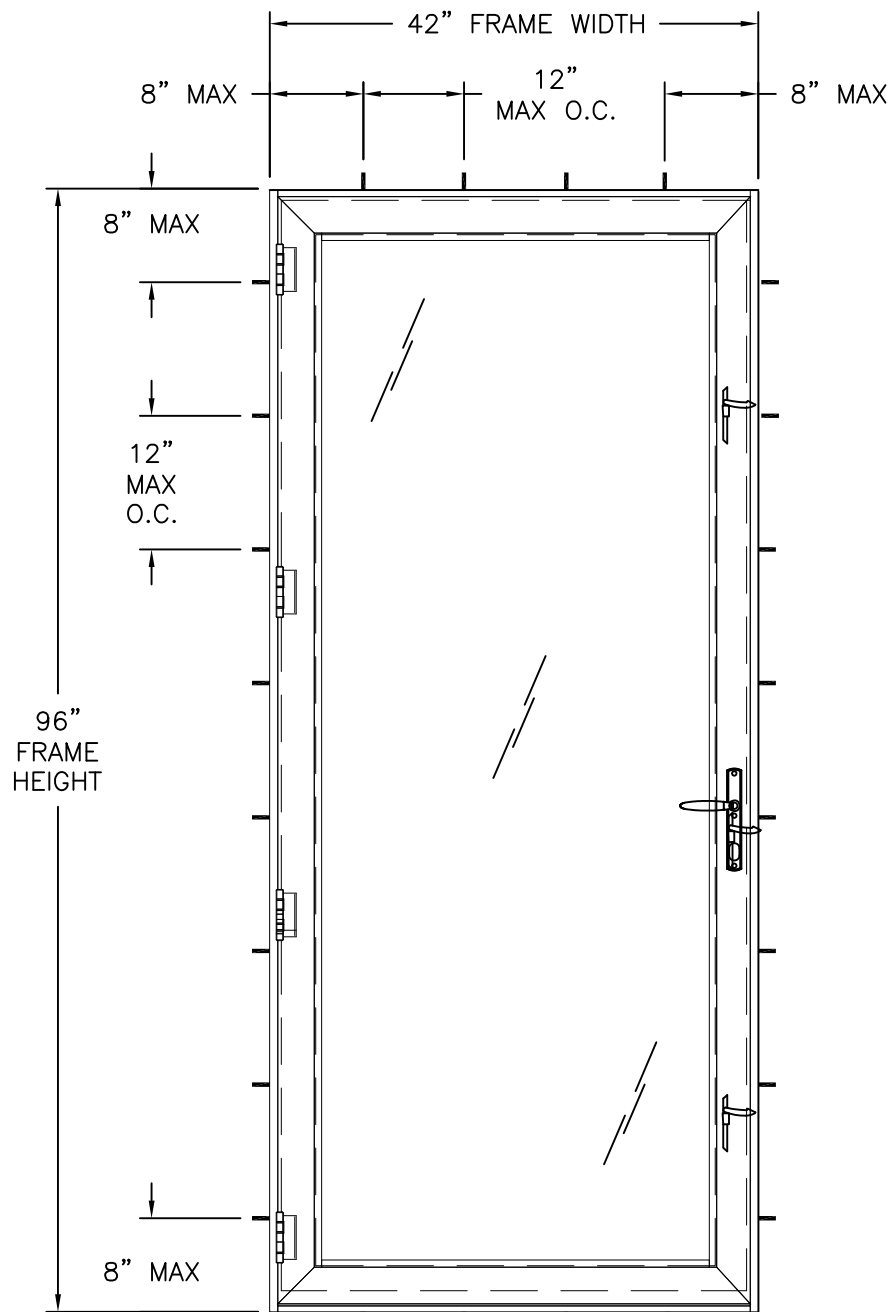
SHEET 1 OF 6

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434-688-0609 rllomas@lrlomaspe.com

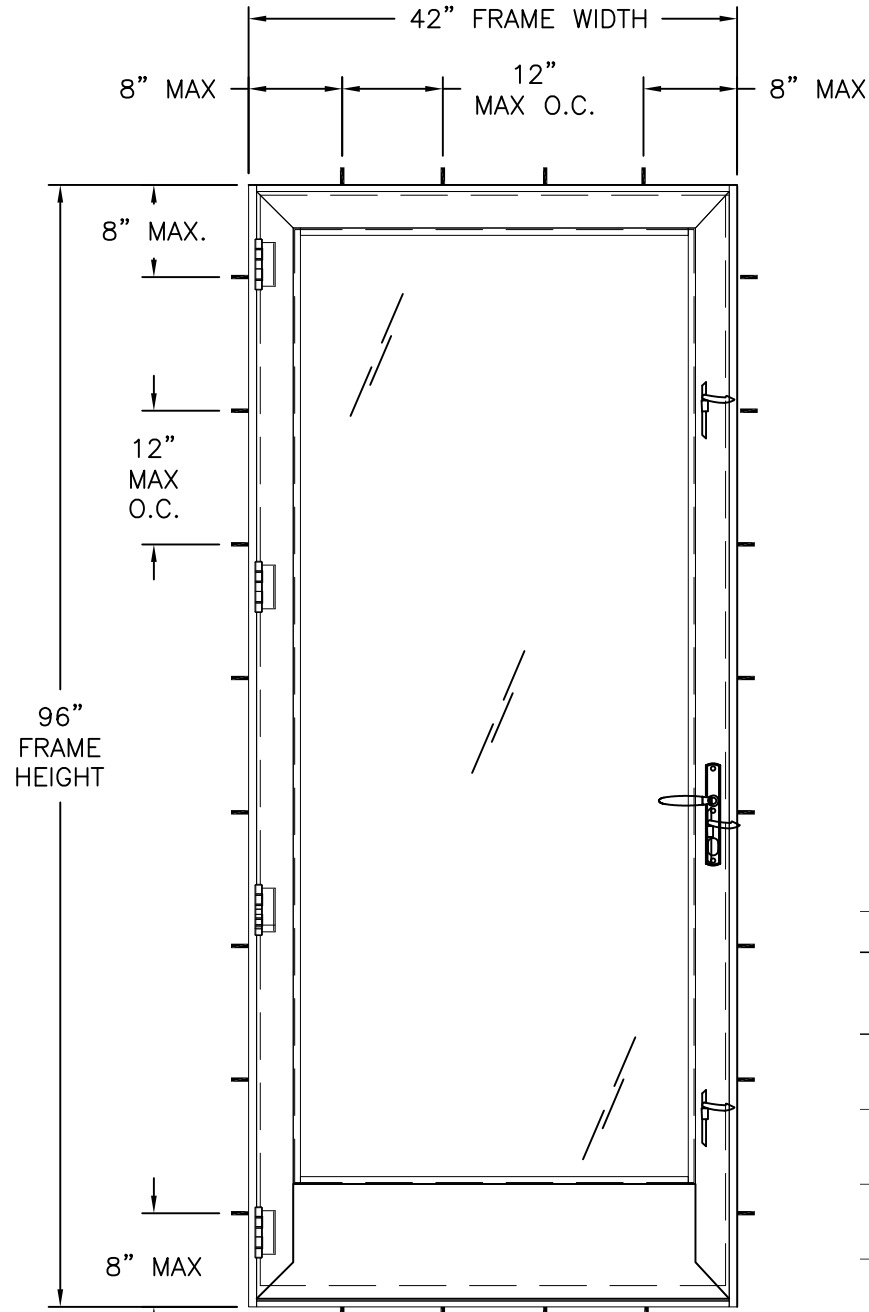
SIGNED: 09/04/2026



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



D900 ALUMINUM TERRACE DOOR  
EXTERIOR VIEW  
WITH STANDARD BOTTOM RAIL



D900 ALUMINUM TERRACE DOOR  
EXTERIOR VIEW  
WITH 10" BOTTOM RAIL

| DESIGN PRESSURE RATING | IMPACT RATING        |
|------------------------|----------------------|
| ±80.0PSF               | SMALL MISSILE IMPACT |

MISSILE LEVEL A, WIND ZONE 4 AND HVHZ

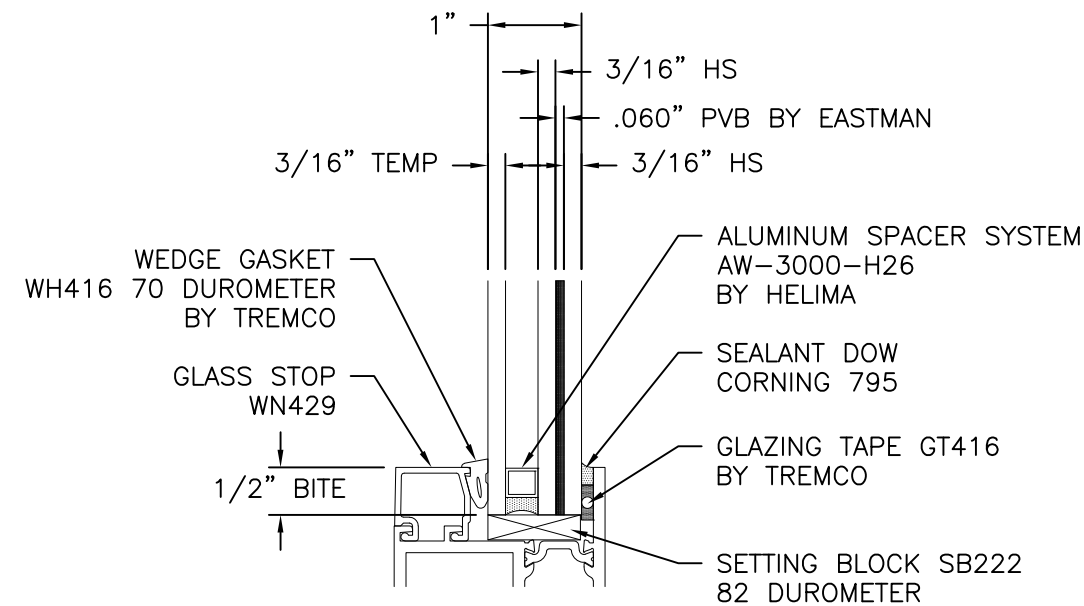
40 9/16" X 95 5/8" PANEL SHOWN. OTHER SIZES APPROVED AS LONG AS PANEL AREA DOES NOT EXCEED 26.93" FT²

- NOTES:
- PANEL SIZE.: 40 9/16" x 95 5/8"
  - MAXIMUM D.L.O.: 33" x 87 1/16"

HARDWARE SCHEDULE

|    |                                                                                        |
|----|----------------------------------------------------------------------------------------|
| A. | (1) ATHINAI M156/216N LOCK - SOLID BRASS W/DEADBOLT, 42" FROM SILL                     |
| B. | (1) DEADBOLT STRIKE TH701 SECURED AT JAMB                                              |
| C. | (1) TONGUE STRIKE TH702 SECURED AT JAMB                                                |
| D. | (2) SHOOT BOLT STRIKE TH703 AT HEAD AND SILL                                           |
| E. | (4) HINGE ASSEMBLY WH751 AT 8" FROM HEAD AND SILL AND EQUALLY SPACED ALONG HINGE STILE |

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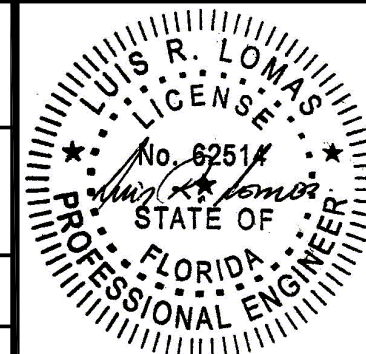
GLAZING DETAIL

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 |

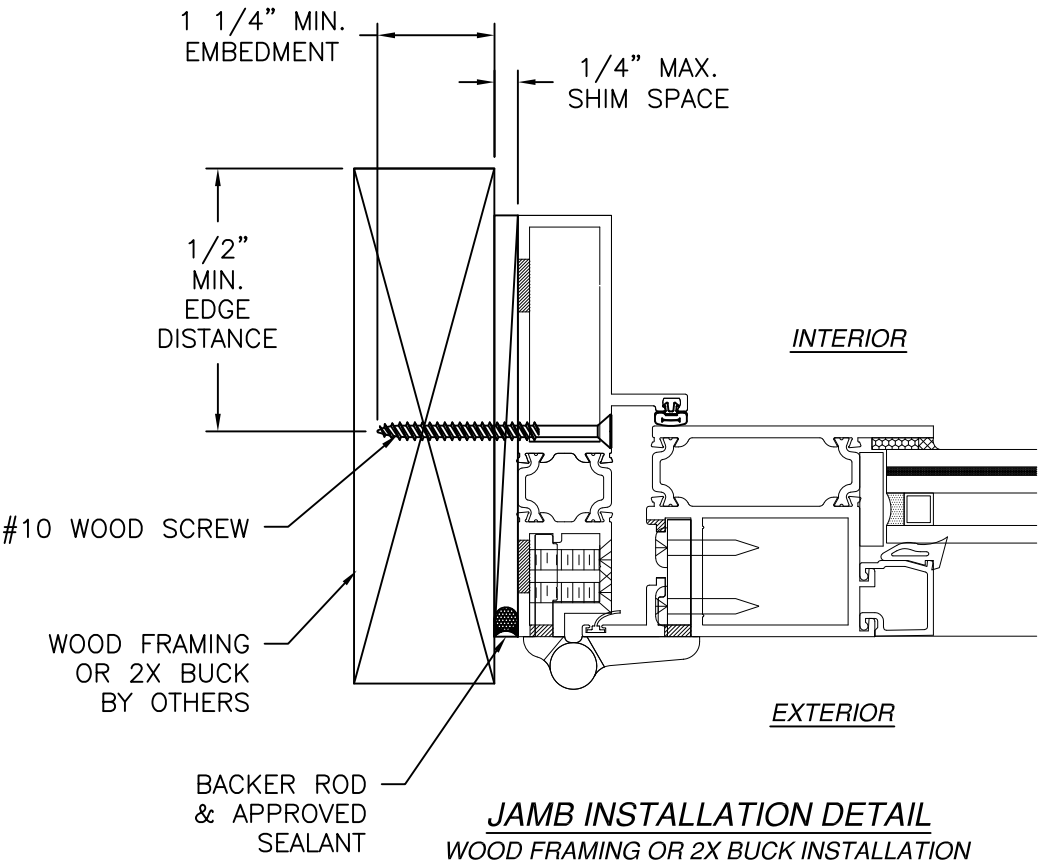
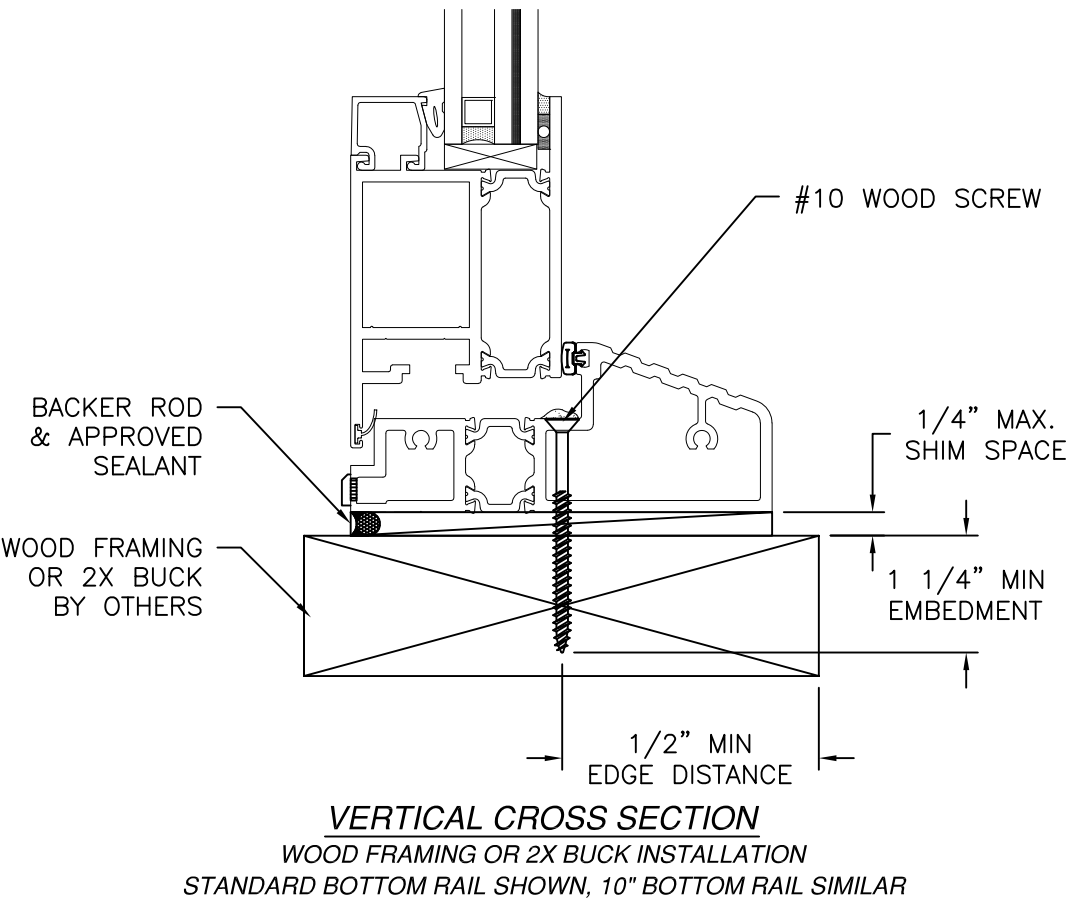
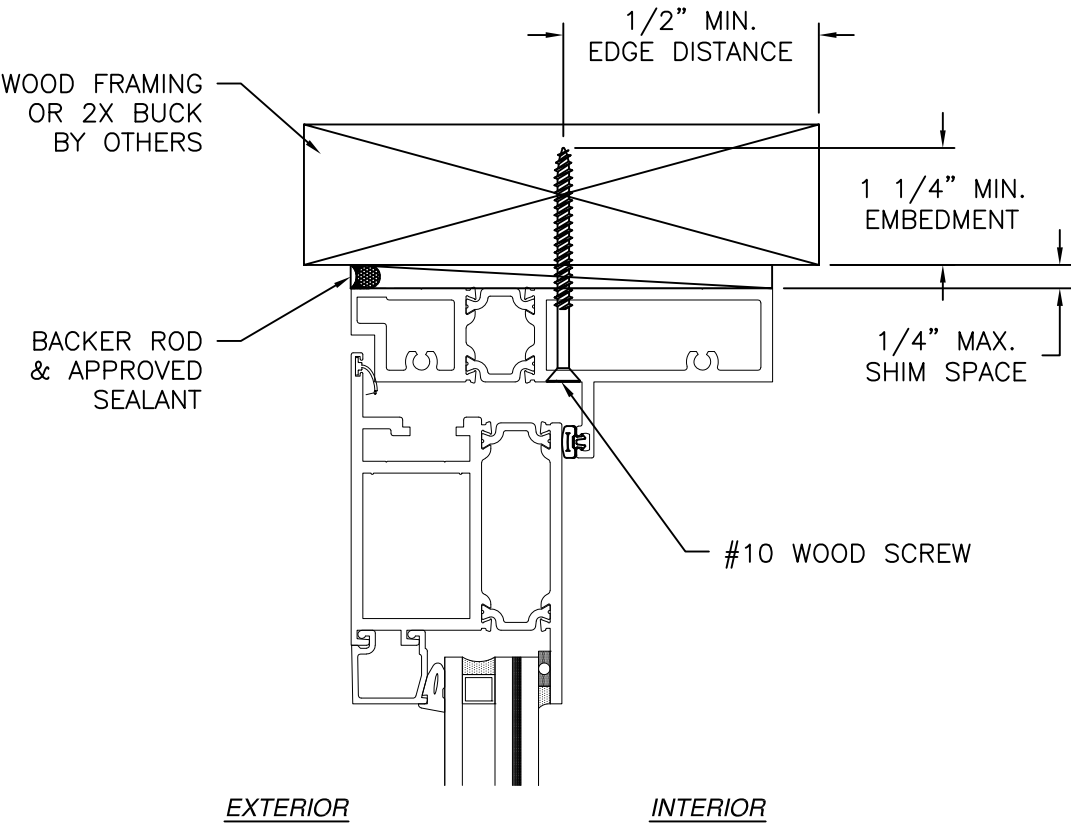
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|                                                                                                    |                     |                 |
|----------------------------------------------------------------------------------------------------|---------------------|-----------------|
| US ALUMINUM<br>950 SOLON RD.<br>WAXAHACHIE, TX 75165                                               |                     |                 |
| D900 THERMALLY IMPROVED ALUMINUM<br>ARCHITECTURAL TERRACE DOOR SMI<br>ELEVATION AND GLAZING DETAIL |                     |                 |
| DRAWN:<br>A.R.                                                                                     | DWG NO.<br>08-03200 | REV<br>D        |
| SCALE<br>NTS                                                                                       | DATE<br>03/07/18    | SHEET<br>2 OF 6 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com  |                     |                 |



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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

US ALUMINUM

950 SOLON RD.

WAXAHACHIE, TX 75165

D900 THERMALLY IMPROVED ALUMINUM

ARCHITECTURAL TERRACE DOOR SMI

INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03200

REV D

SCALE NTS

DATE 03/07/18

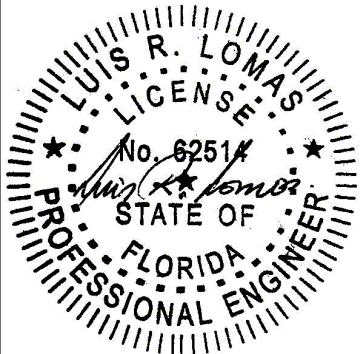
SHEET 3 OF 6

L. ROBERTO LOMAS P.E.

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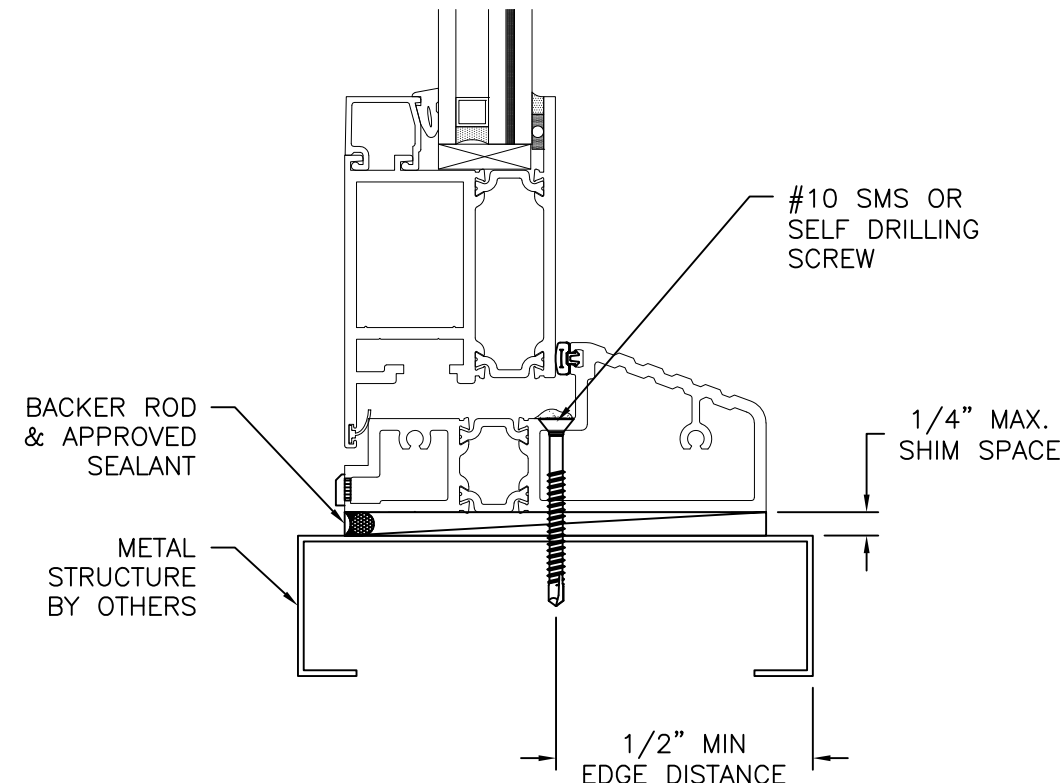
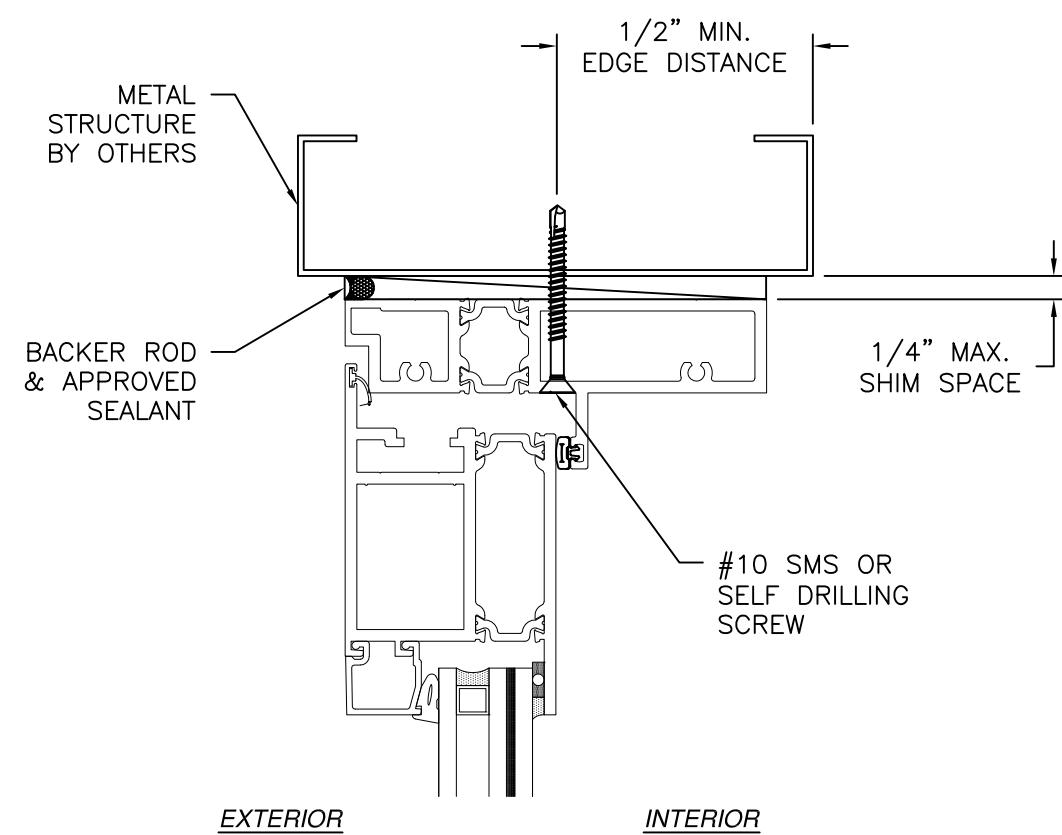
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/04/2026

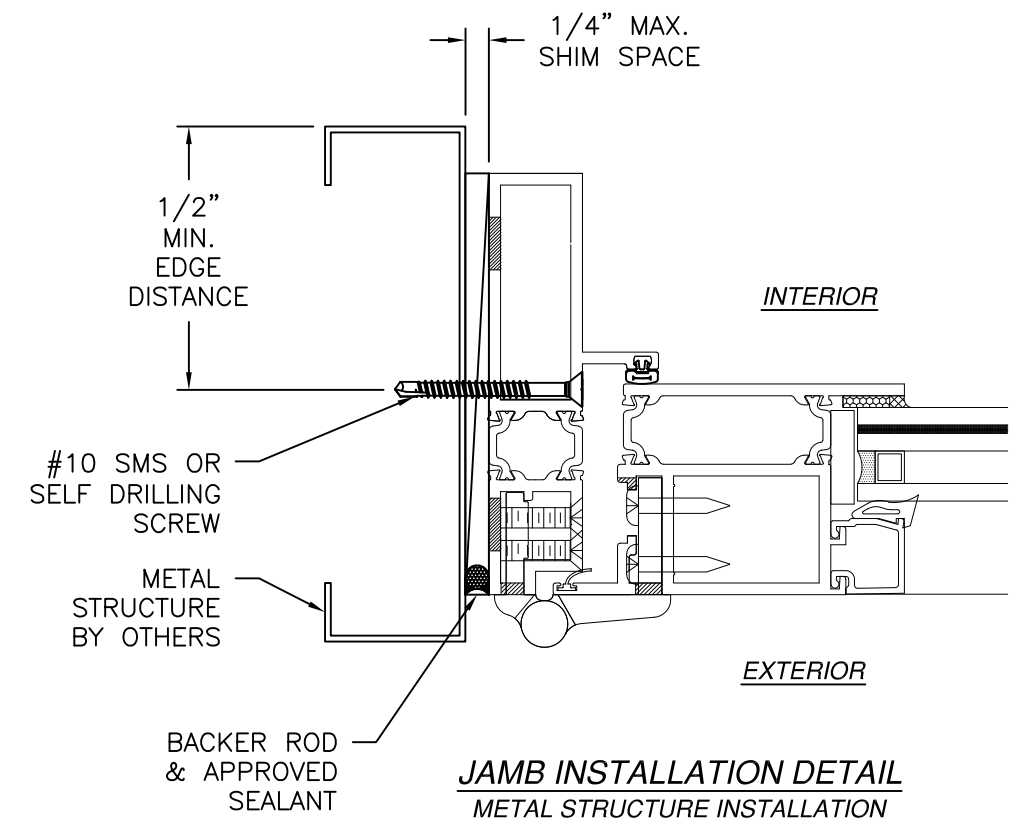


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**VERTICAL CROSS SECTION**  
**METAL STRUCTURE INSTALLATION**  
 STANDARD BOTTOM RAIL SHOWN, 10" BOTTOM RAIL SIMILAR

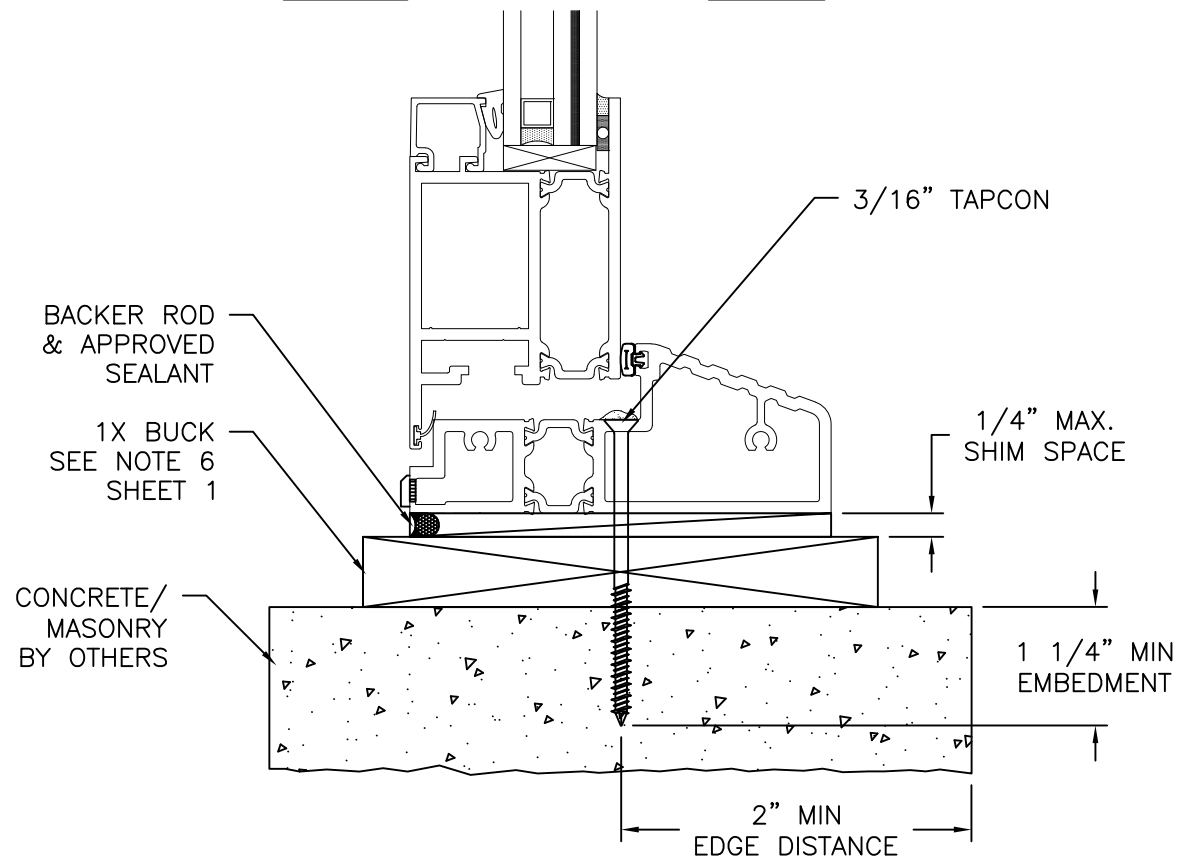
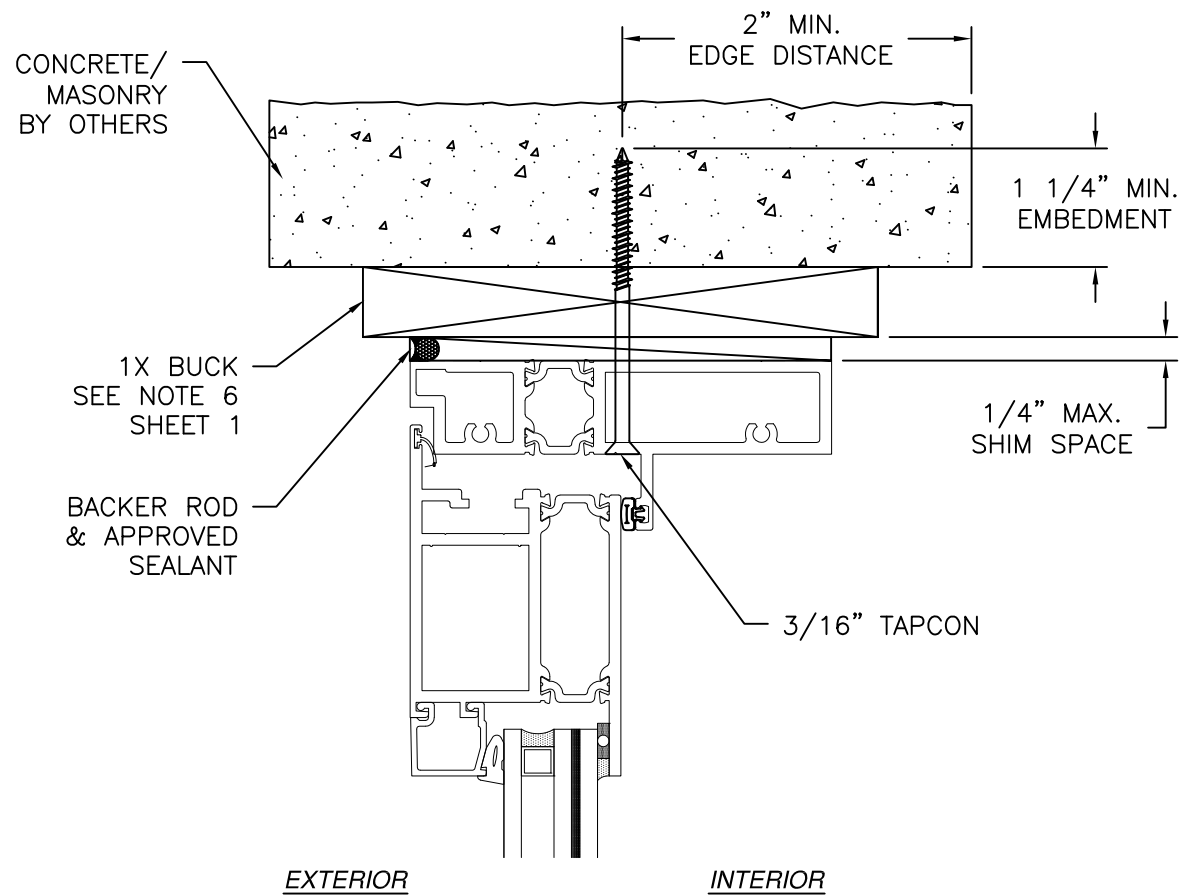


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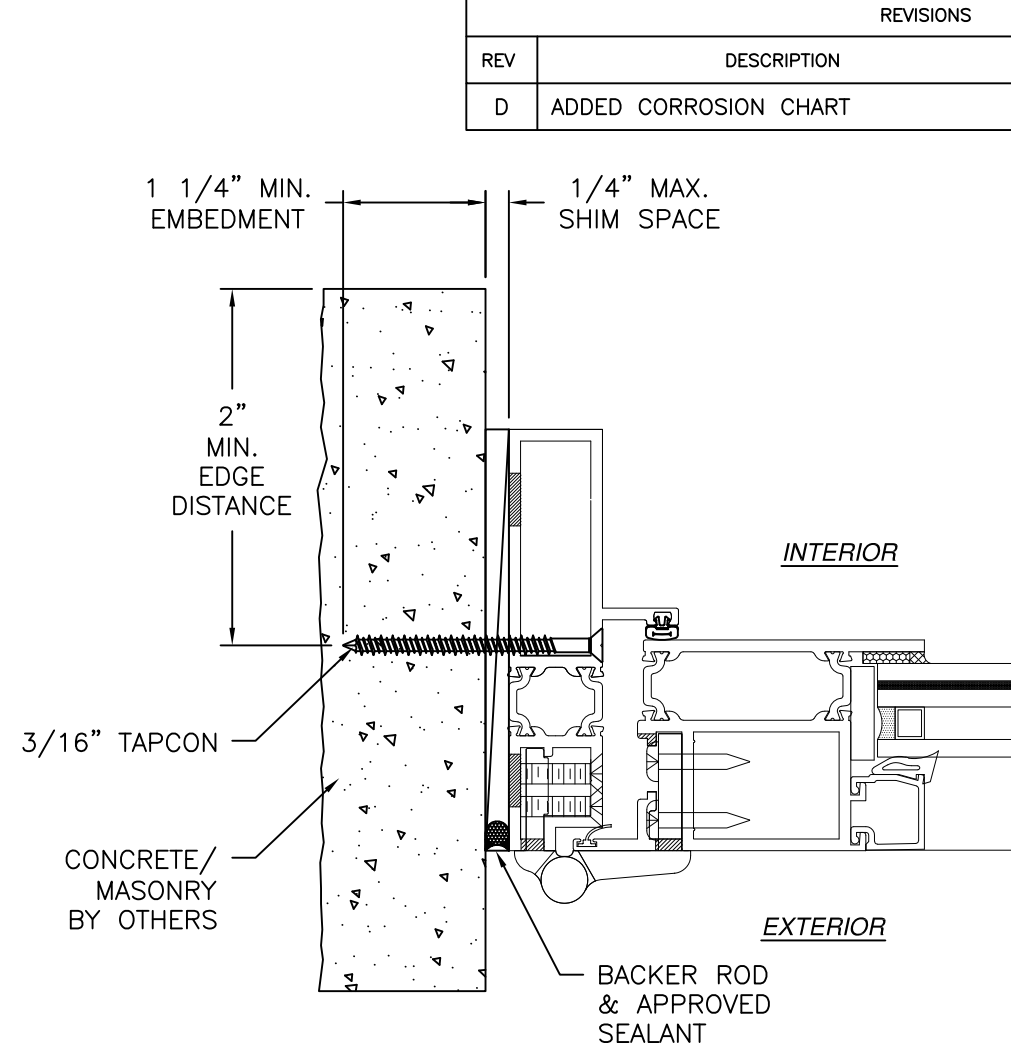
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|------------------------------------------------------------------------------------------------------|----------------------------|------------------------|
| <b>US ALUMINUM</b><br>950 SOLON RD.<br>WAXAHACHIE, TX 75165                                          |                            |                        |
| <b>D900 THERMALLY IMPROVED ALUMINUM ARCHITECTURAL TERRACE DOOR SMI INSTALLATION DETAILS</b>          |                            |                        |
| DRAWN:<br><b>A.R.</b>                                                                                | DWG NO.<br><b>08-03200</b> | REV<br><b>D</b>        |
| SCALE<br><b>NTS</b>                                                                                  | DATE<br><b>03/07/18</b>    | SHEET<br><b>4 OF 6</b> |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609    rllomas@lrlomaspe.com |                            |                        |

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



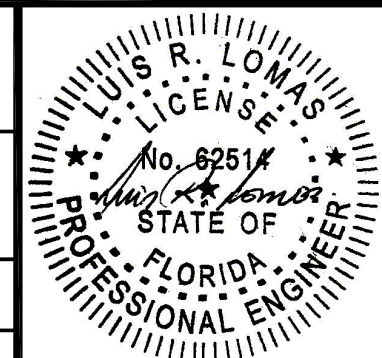
**JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION  
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER  
TO HEAD AND SILL INSTALLATION DETAILS

- NOTES:**
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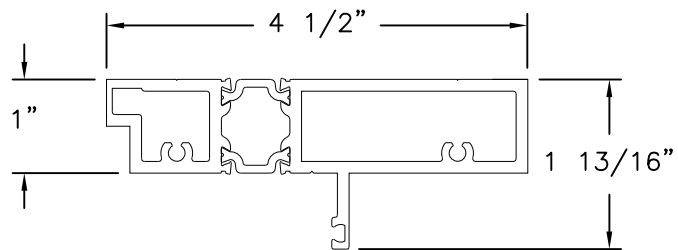
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| <b>US ALUMINUM</b><br>950 SOLON RD.<br>WAXAHACHIE, TX 75165                                                           |                     |                 |
| <b>D900 THERMALLY IMPROVED ALUMINUM<br/>         ARCHITECTURAL TERRACE DOOR SMI<br/>         INSTALLATION DETAILS</b> |                     |                 |
| DRAWN:<br>A.R.                                                                                                        | DWG NO.<br>08-03200 | REV<br>D        |
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| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com                     |                     |                 |

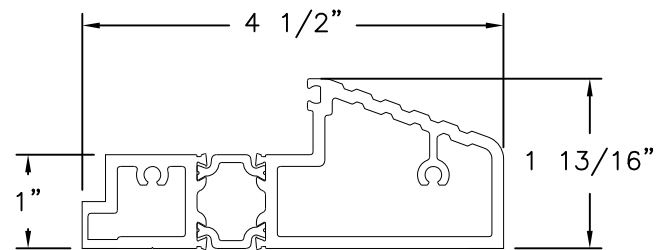
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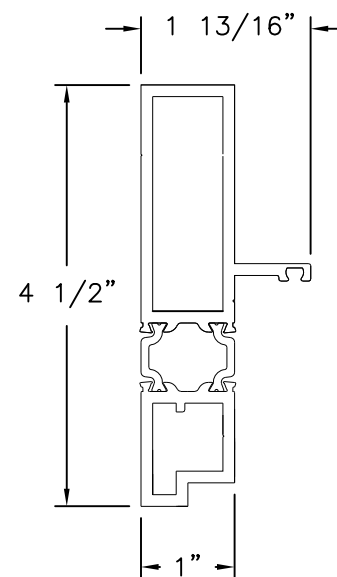
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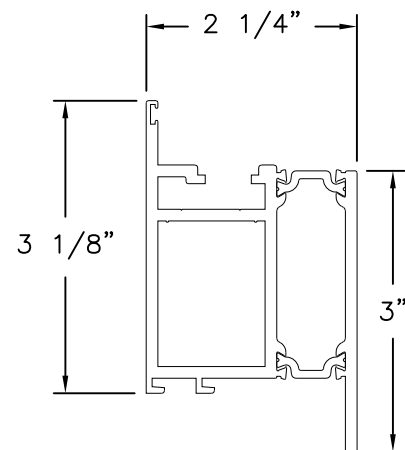
**FRAME HEAD HT450**  
ALUMINUM 6063-T5



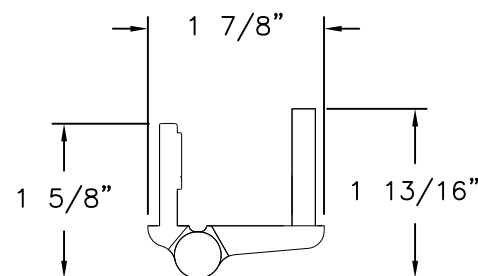
**STANDARD THRESHOLD OUTSWING  
HT451**  
ALUMINUM 6063-T5



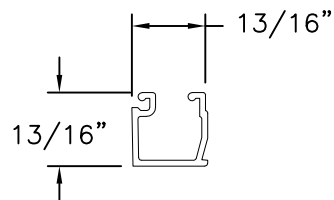
**FRAME JAMB JI450**  
ALUMINUM 6063-T5



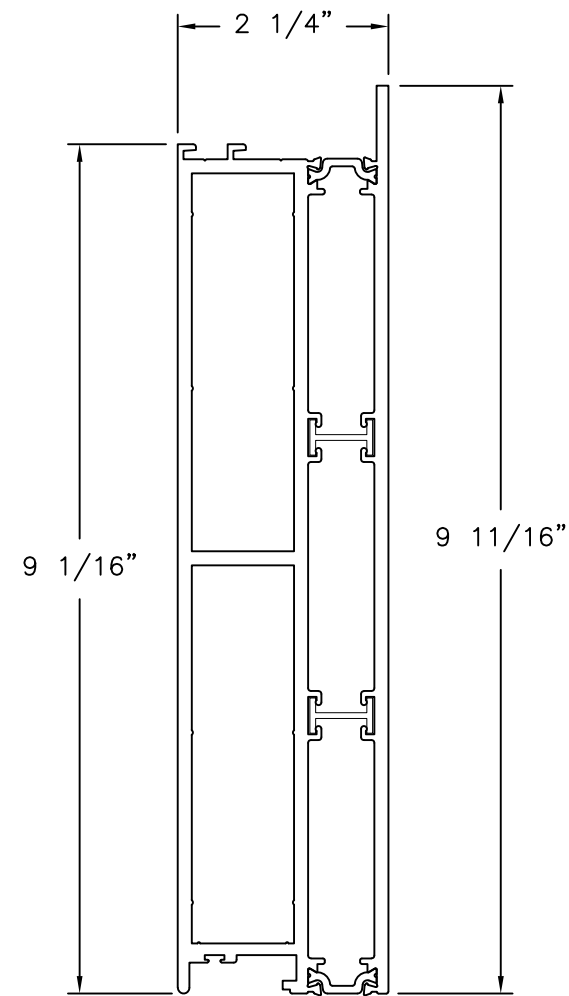
**SASH MEMBER HT300**  
ALUMINUM 6063-T5



**HINGE ASSEMBLY WH751**  
ALUMINUM 6063-T5



**GLASS STOP WN429**  
ALUMINUM 6063-T5

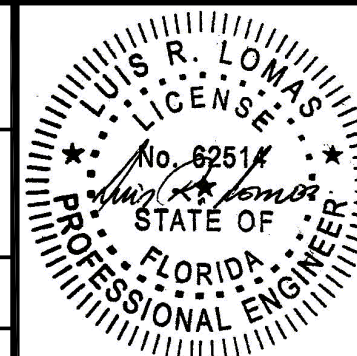


**10" BOTTOM RAIL WT900**  
ALUMINUM 6063-T5

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| D900 THERMALLY IMPROVED ALUMINUM<br>ARCHITECTURAL TERRACE DOOR SMI<br>COMPONENTS                  |                     |                 |
| DRAWN:<br>A.R.                                                                                    | DWG NO.<br>08-03200 | REV<br>D        |
| SCALE<br>NTS                                                                                      | DATE<br>03/07/18    | SHEET<br>6 OF 6 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |

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