

| REVISIONS |             |      |          |
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| REV       | DESCRIPTION | DATE | APPROVED |

NOTES:

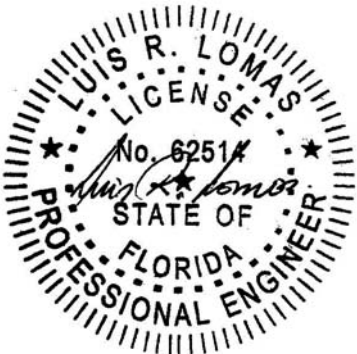
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD AND METAL FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT 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. 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 3/8”.
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, 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 #12 SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

14. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4” 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 #12 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: GROUT 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 WITH WOOD BACKING

SIGNED: 04/05/2022

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| 4 – 7             | INSTALLATION DETAILS     |
| 8                 | COMPONENTS               |

|                                                                                                       |                     |                 |
|-------------------------------------------------------------------------------------------------------|---------------------|-----------------|
| C.R. LAURENCE CO., INC.<br>2503 E. VERNON AVE.<br>LOS ANGELES, CA 90058                               |                     |                 |
| PALISADES S90 THERMALLY BROKEN ALUMINUM<br>INSWING FOLDING DOOR NON-IMPACT<br>NOTES                   |                     |                 |
| DRAWN:<br>A.R.                                                                                        | DWG NO.<br>08-03806 | REV<br>-        |
| SCALE<br>NTS                                                                                          | DATE<br>02/10/2022  | SHEET<br>1 OF 8 |
| L. ROBERTO LOMAS P.E.<br>400 S. PALM AVE, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |

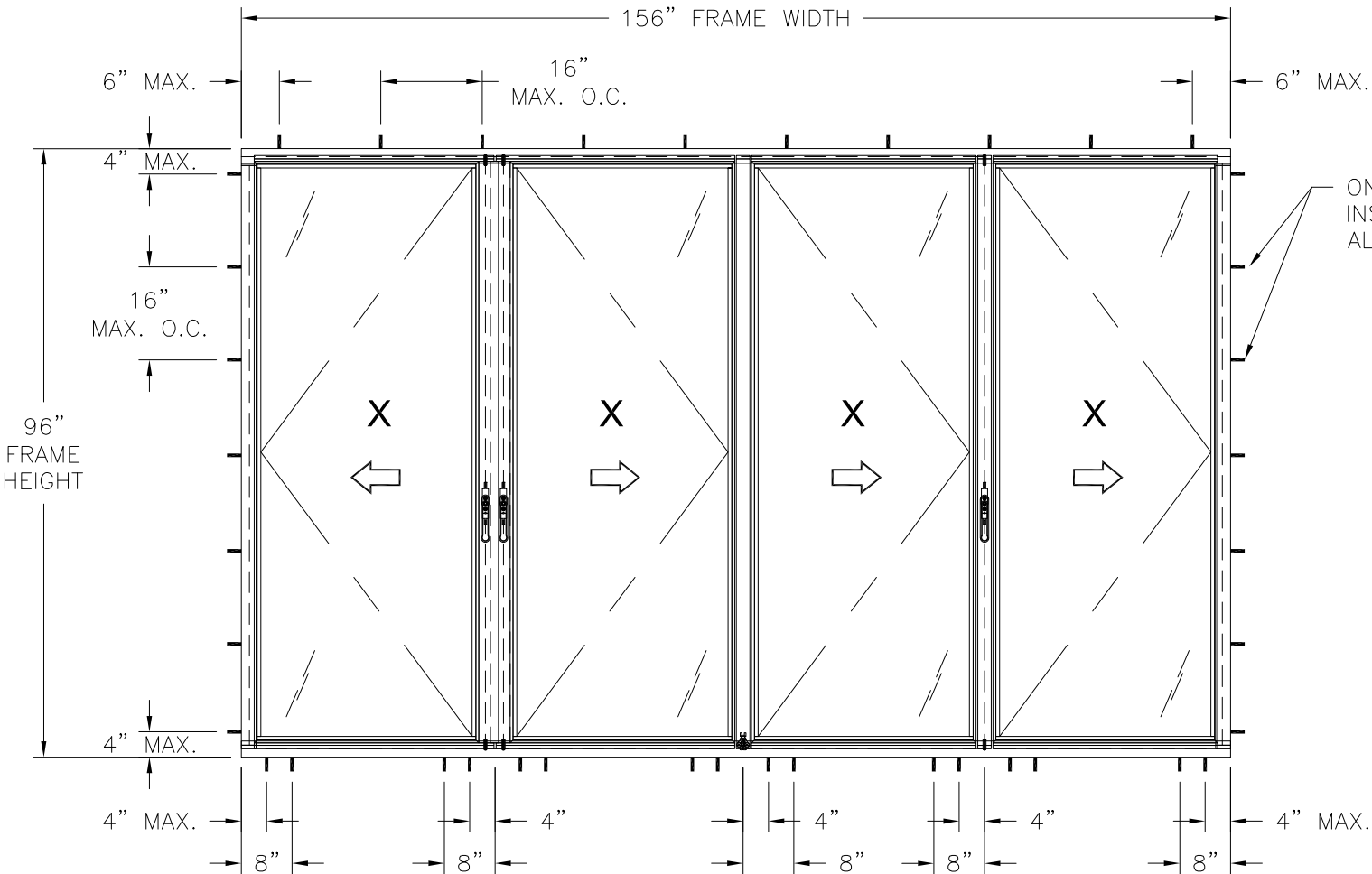


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FL No.: 62514

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EXTERIOR

INTERIOR



**PALISADES S90 BI-FOLD DOOR INSWING 3L1R**

INTERIOR VIEW

3L1R CONFIGURATION SHOWN 2L, 2R, 2L1R, 1L2R, 3L, 3R, 4L, 4R, 1R3L, 2L2R, 5L, 5R, 4L1R, 1L4R, 3L2R AND 2L3R ARE ALSO APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 22.8 FT<sup>2</sup>

| DESIGN PRESSURE RATING | IMPACT RATING |
|------------------------|---------------|
| ±40.0PSF               | NONE          |

- NOTES:
- PANEL SIZE: 35 1/2" X 92 1/2"
  - D.L.O. SIZE: 33 5/16" X 89 5/8"

**HARDWARE SCHEDULE**

|    |                                                                                                                             |
|----|-----------------------------------------------------------------------------------------------------------------------------|
| A. | (3) LOCK HANDLE FOR SHOOT BOLTS AT POST BETWEEN PANELS A & B, PANEL C RIGHT STILE & PANEL D LOCK STILE, 37 3/4" FROM BOTTOM |
| B. | (1) 4 WHEEL ROLLER (S85B) AT BOTTOM OF THE SECOND POST FROM THE LEFT                                                        |
| C. | (1) TOP ROLLER/GUIDE (S85T) AT TOP OF THE SECOND POST FROM THE LEFT                                                         |
| D. | (5 PER HINGE JAMB) S85 CONCEALED BUTT HINGE AT 8" AND 19 1/2" FROM EACH END AND ONE AT MIDSPAN FOR EACH HINGE STILE         |
| E. | (2) STAINLESS STEEL TRACK CAP AT EACH OF THE TWO EXTRUDED SILL ROLLER TRACKS                                                |
| F. | (24) S85 LEVELER AT ALL JAMB AND HEAD ANCHOR SCREWS                                                                         |

**Chart #1**  
**Maximum Design pressure (psf)**

| Panel Height (in) | Single Panel Width (in) |      |       |      |       |      |
|-------------------|-------------------------|------|-------|------|-------|------|
|                   | 24.00                   |      | 30.00 |      | 35.50 |      |
|                   | Pos                     | Neg  | Pos   | Neg  | Pos   | Neg  |
| 80.00             | 40.0                    | 60.0 | 40.0  | 54.4 | 40.0  | 48.0 |
| 84.00             | 40.0                    | 60.0 | 40.0  | 51.3 | 40.0  | 45.1 |
| 90.00             | 40.0                    | 56.7 | 40.0  | 47.2 | 40.0  | 41.4 |
| 96.00             | 40.0                    | 51.1 | 40.0  | 41.5 | -     | -    |
| 102.00            | 40.0                    | 42.5 | 34.4  | 34.4 | -     | -    |
| 108.00            | 35.7                    | 35.7 | 28.9  | 28.9 | -     | -    |
| 114.00            | 30.3                    | 30.3 | -     | -    | -     | -    |
| 115.75            | 28.9                    | 28.9 | -     | -    | -     | -    |
| 120.00            | 25.9                    | 25.9 | -     | -    | -     | -    |

WHERE WATER PENETRATION RESISTANCE IS REQUIRED

**Chart #2**  
**Maximum Design pressure (psf)**

| Panel Height (in) | Single Panel Width (in) |      |       |      |       |      |
|-------------------|-------------------------|------|-------|------|-------|------|
|                   | 24.00                   |      | 30.00 |      | 35.50 |      |
|                   | Pos                     | Neg  | Pos   | Neg  | Pos   | Neg  |
| 80.00             | 60.0                    | 60.0 | 54.4  | 54.4 | 48.0  | 48.0 |
| 84.00             | 60.0                    | 60.0 | 51.3  | 51.3 | 45.1  | 45.1 |
| 90.00             | 56.7                    | 56.7 | 47.2  | 47.2 | 41.4  | 41.4 |
| 96.00             | 51.1                    | 51.1 | 41.5  | 41.5 | -     | -    |
| 102.00            | 42.5                    | 42.5 | 34.4  | 34.4 | -     | -    |
| 108.00            | 35.7                    | 35.7 | 28.9  | 28.9 | -     | -    |
| 114.00            | 30.3                    | 30.3 | -     | -    | -     | -    |
| 115.75            | 28.9                    | 28.9 | -     | -    | -     | -    |
| 120.00            | 25.9                    | 25.9 | -     | -    | -     | -    |

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED

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C.R. LAURENCE CO., INC.

2503 E. VERNON AVE.  
LOS ANGELES, CA 90058

PALISADES S90 THERMALLY BROKEN ALUMINUM  
INSWING FOLDING DOOR NON-IMPACT  
ELEVATION AND DP CHART

|                |                     |                 |
|----------------|---------------------|-----------------|
| DRAWN:<br>A.R. | DWG NO.<br>08-03806 | REV<br>-        |
| SCALE<br>NTS   | DATE<br>02/10/2022  | SHEET<br>2 OF 8 |

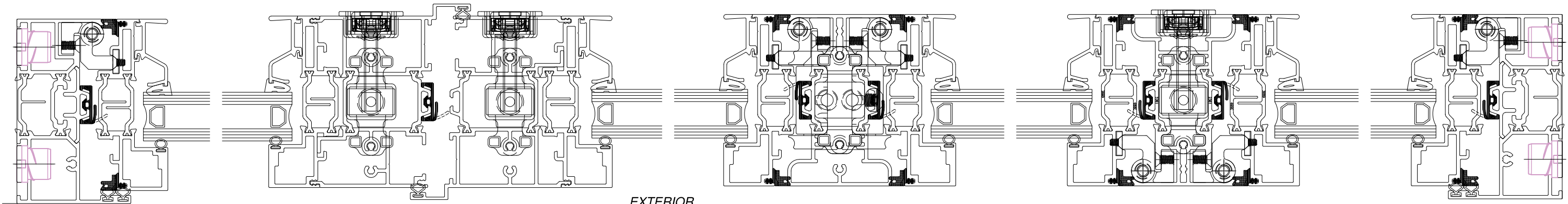
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INTERIOR

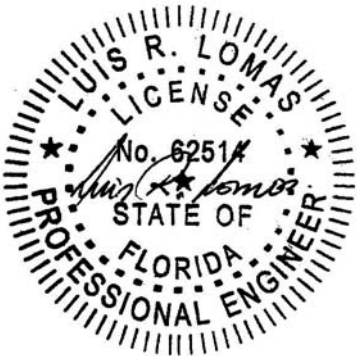


EXTERIOR

HORIZONTAL CROSS SECTION

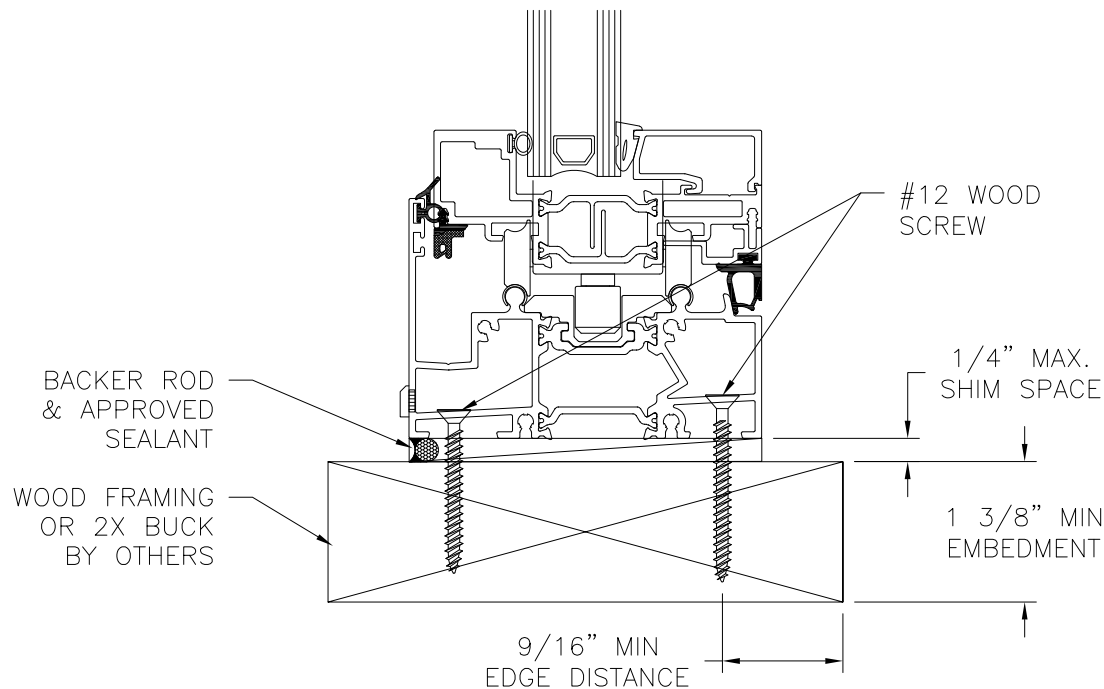
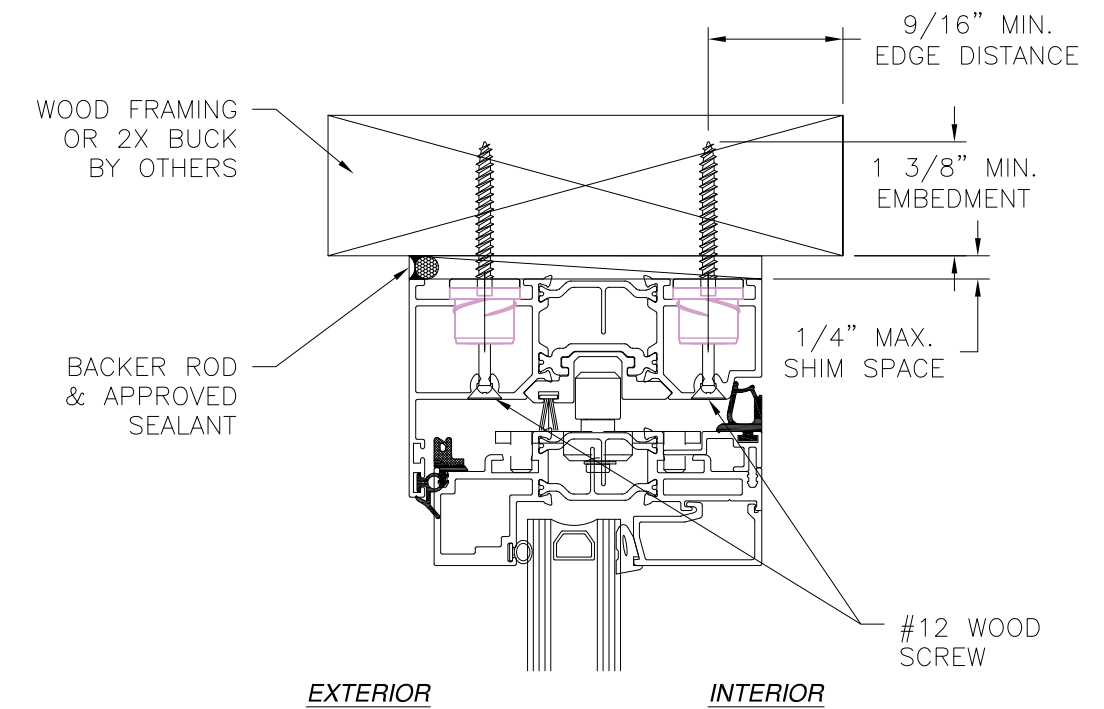
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| PALISADES S90 THERMALLY BROKEN ALUMINUM<br>INSWING FOLDING DOOR NON-IMPACT<br>HORIZONTAL CROSS SECTIONS |                     |              |
| DRAWN:<br>A.R.                                                                                          | DWG NO.<br>08-03806 | REV<br>-     |
| SCALE NTS                                                                                               | DATE 02/10/2022     | SHEET 3 OF 8 |
| L. ROBERTO LOMAS P.E.<br>400 S. PALM AVE, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com   |                     |              |

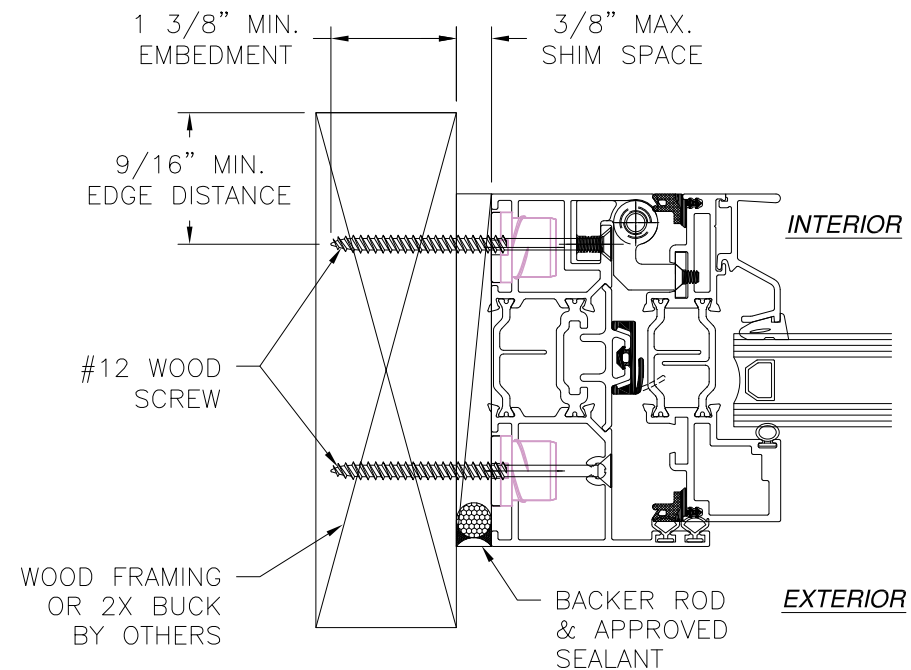


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**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK INSTALLATION

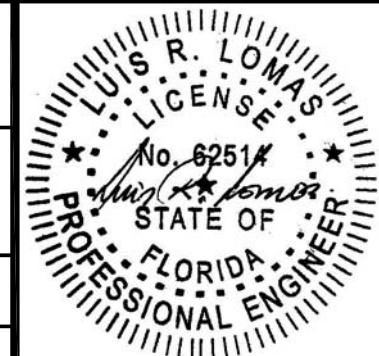


**JAMB INSTALLATION DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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
  3. WEEP HOLES IN SADDLE SILL ARE FIELD INSTALLED

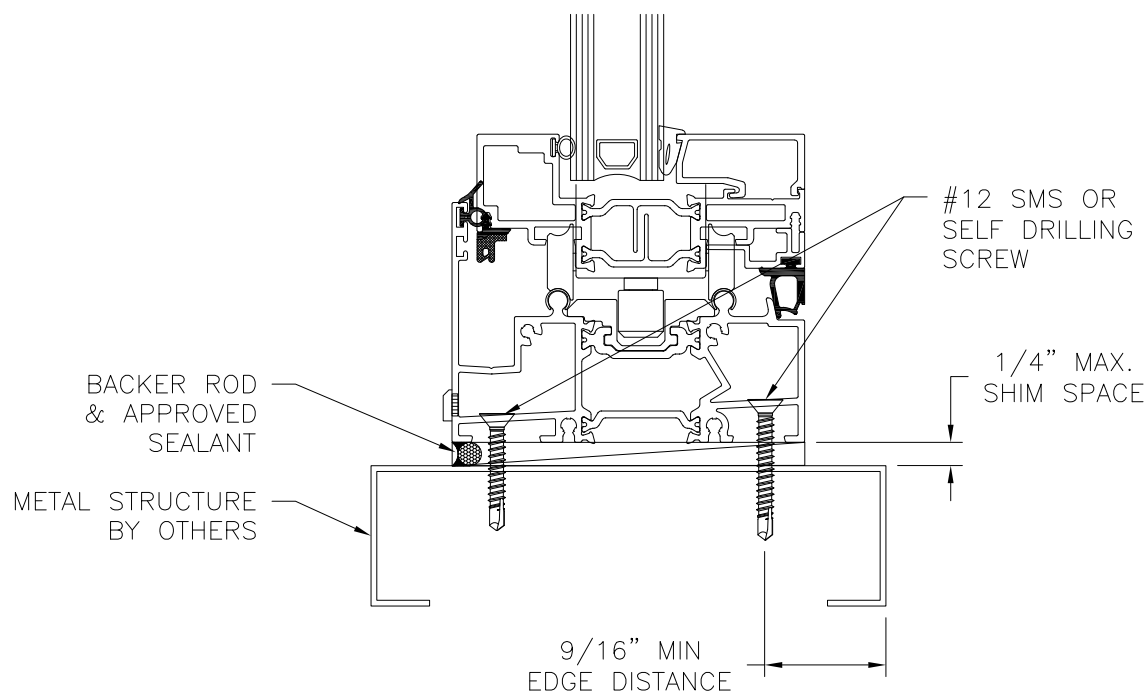
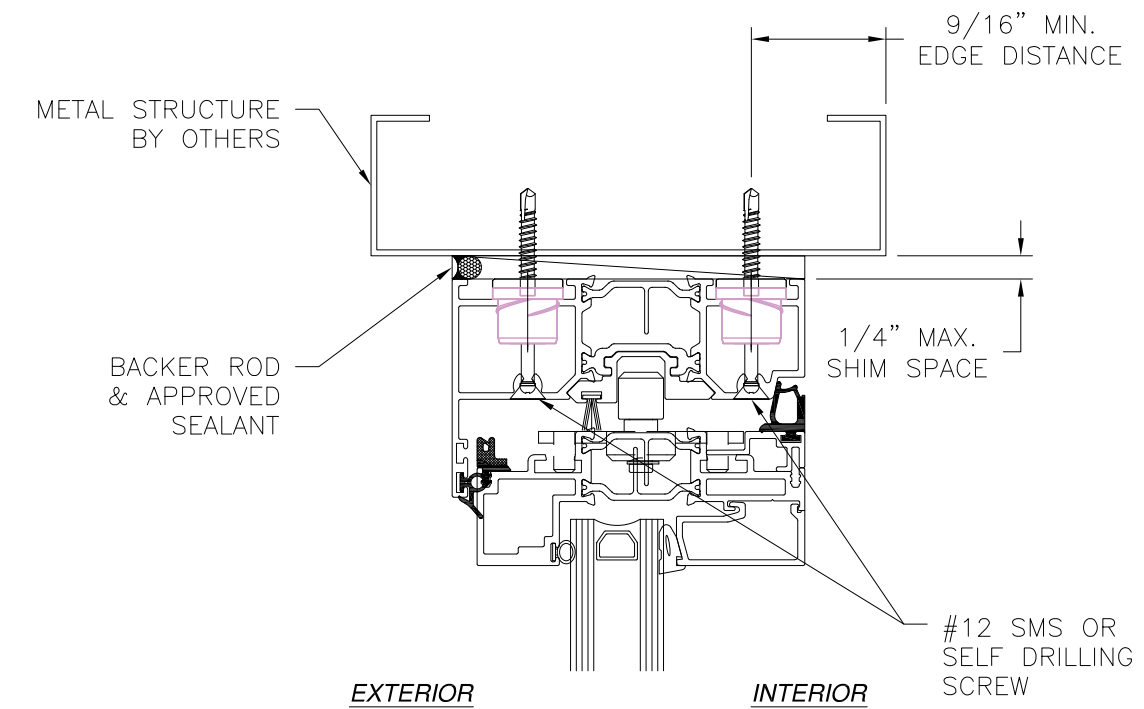
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| PALISADES S90 THERMALLY BROKEN ALUMINUM<br>INSWING FOLDING DOOR NON-IMPACT<br>INSTALLATION DETAILS    |                     |                 |
| DRAWN:<br>A.R.                                                                                        | DWG NO.<br>08-03806 | REV<br>-        |
| SCALE<br>NTS                                                                                          | DATE<br>02/10/2022  | SHEET<br>4 OF 8 |
| L. ROBERTO LOMAS P.E.<br>400 S. PALM AVE, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |

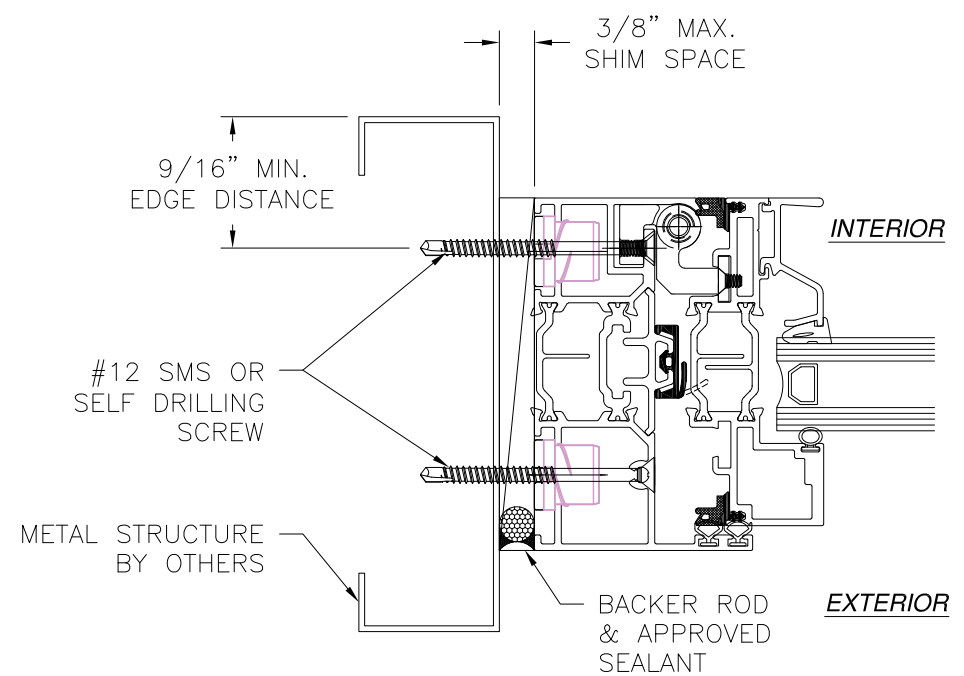


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FL No.: 62514

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**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION



**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE 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. WEEP HOLES IN SADDLE SILL ARE FIELD INSTALLED

SIGNED: 04/05/2022

C.R. LAURENCE CO., INC.  
2503 E. VERNON AVE.  
LOS ANGELES, CA 90058

PALISADES S90 THERMALLY BROKEN ALUMINUM  
INSWING FOLDING DOOR NON-IMPACT  
INSTALLATION DETAILS

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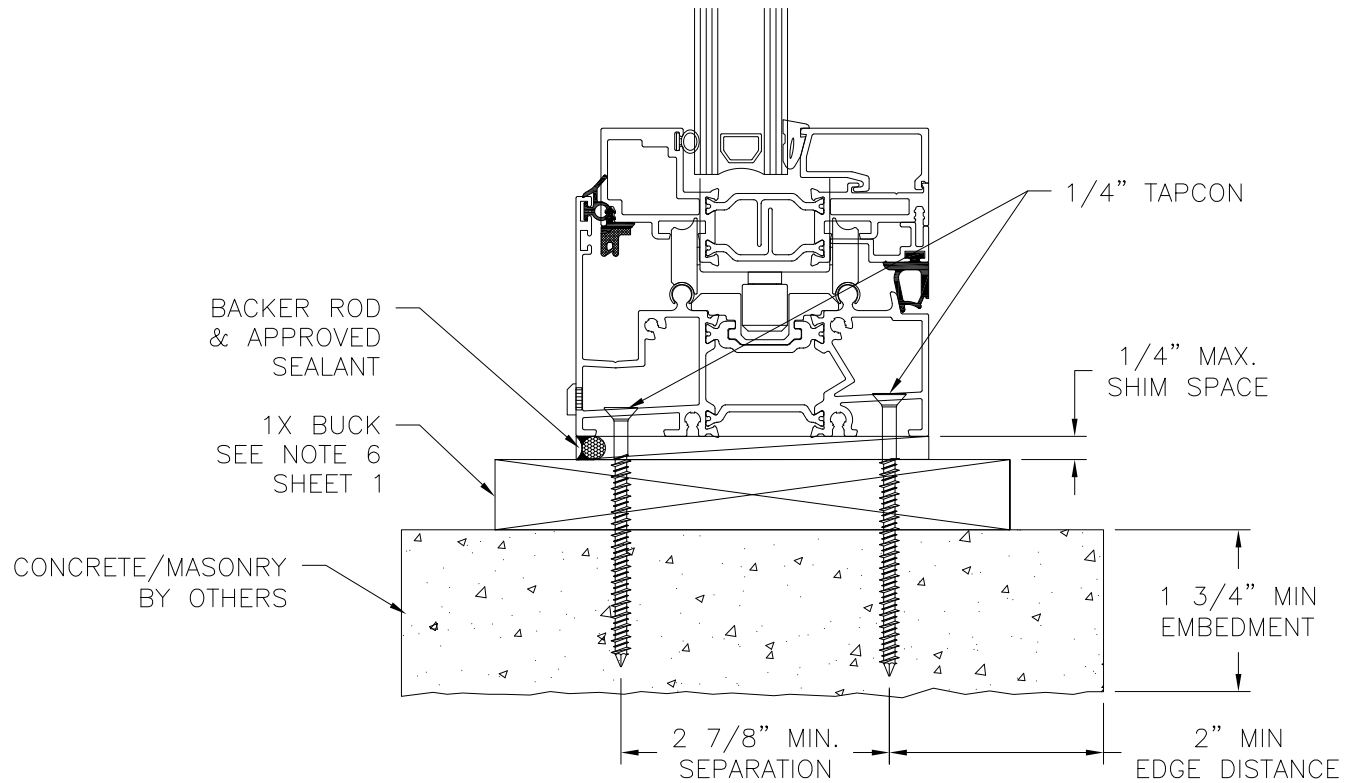
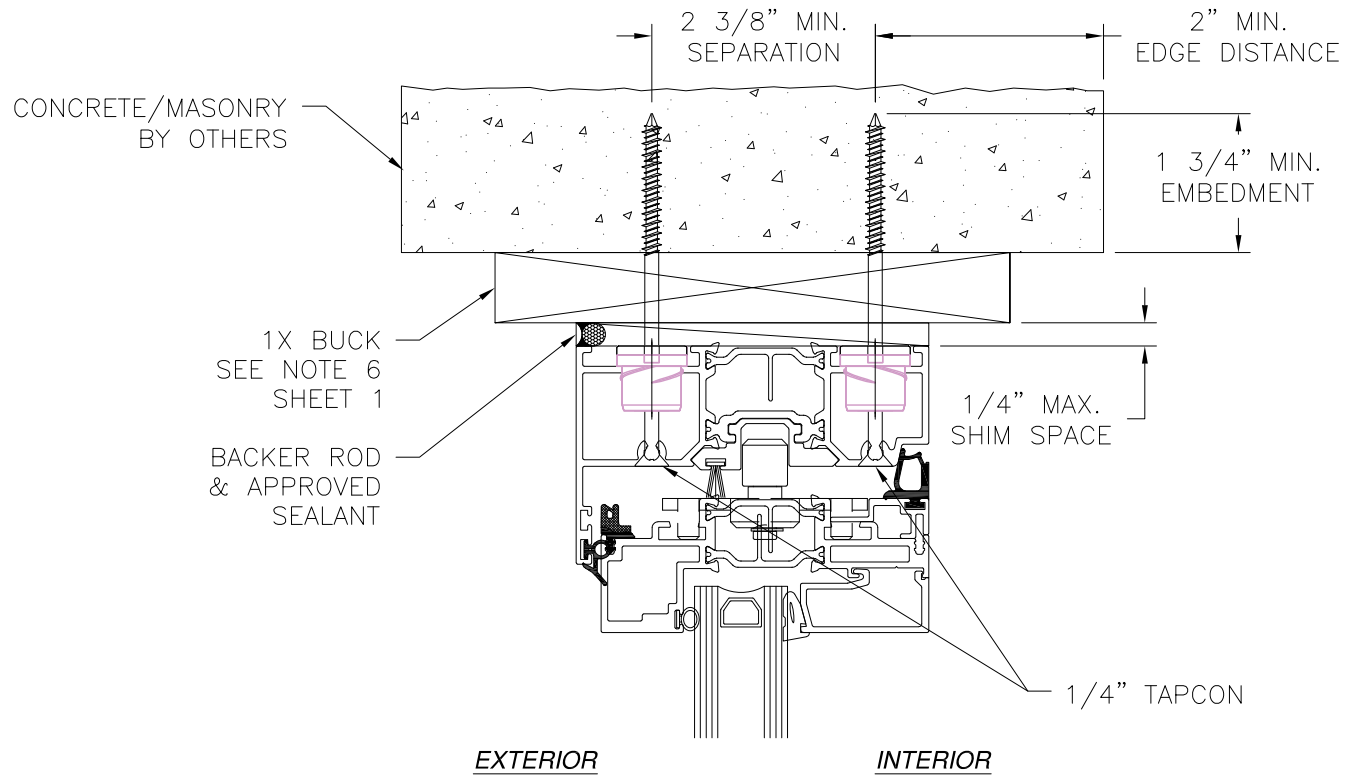
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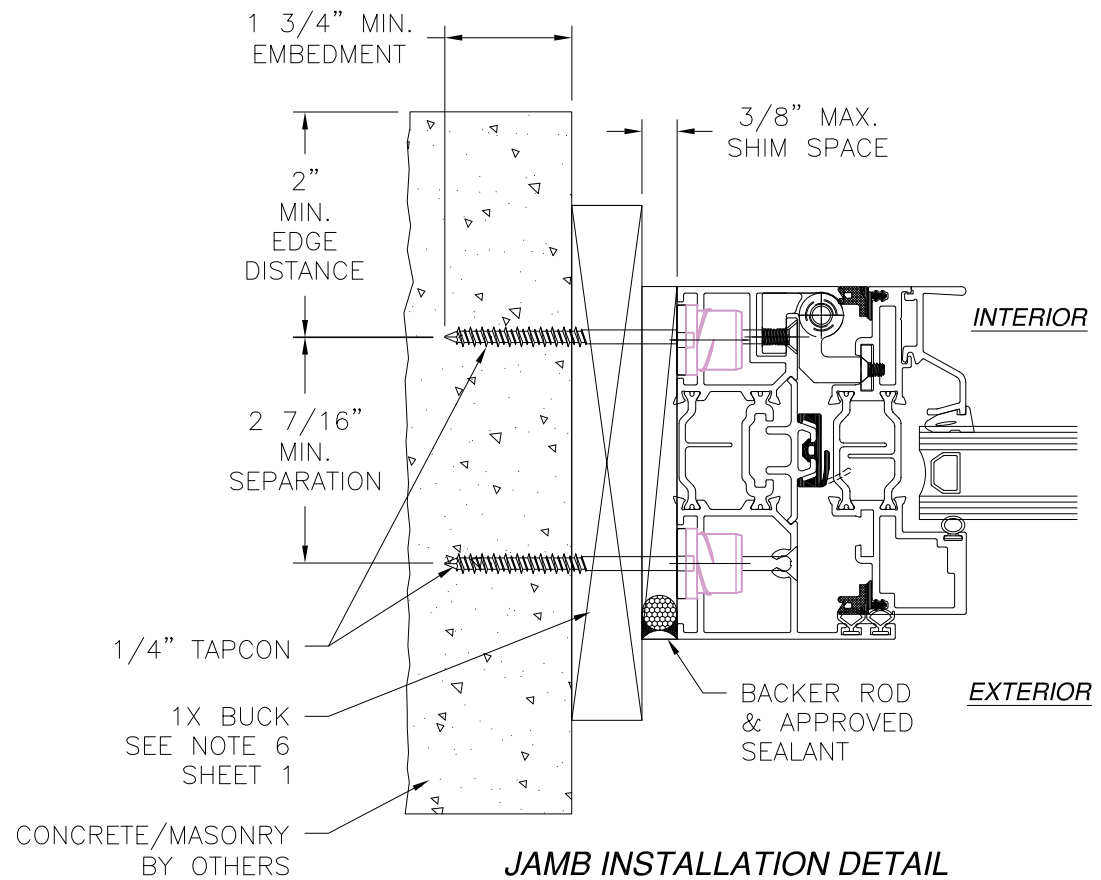
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STATE OF  
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PROFESSIONAL ENGINEER

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



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



**JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY W/1X 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. WEEP HOLES IN SADDLE SILL ARE FIELD INSTALLED

C.R. LAURENCE CO., INC.

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PALISADES S90 THERMALLY BROKEN ALUMINUM  
INSWING FOLDING DOOR NON-IMPACT  
INSTALLATION DETAILS

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DWG NO.

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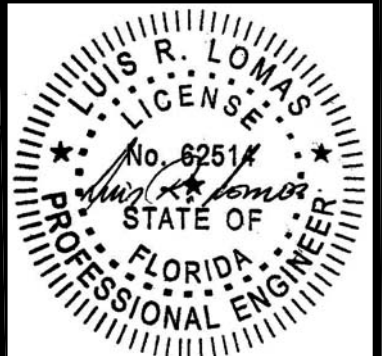
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SHEET

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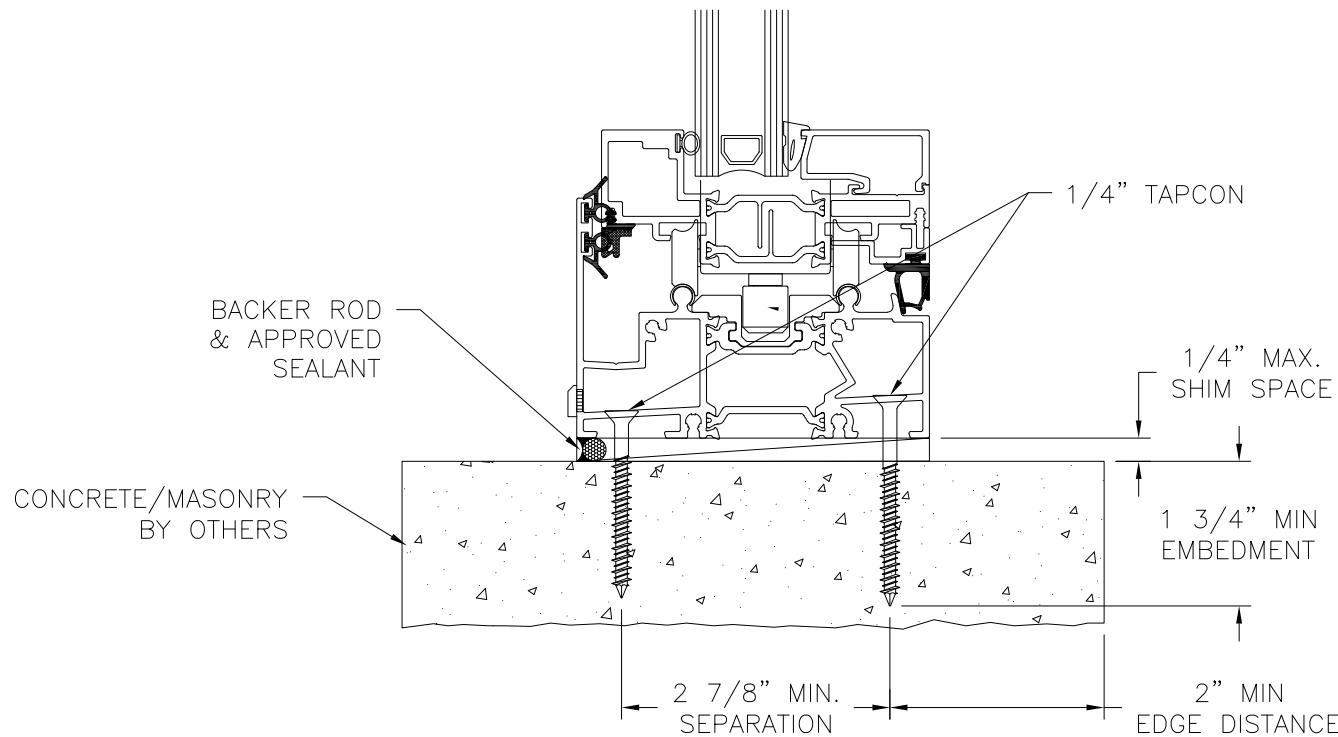
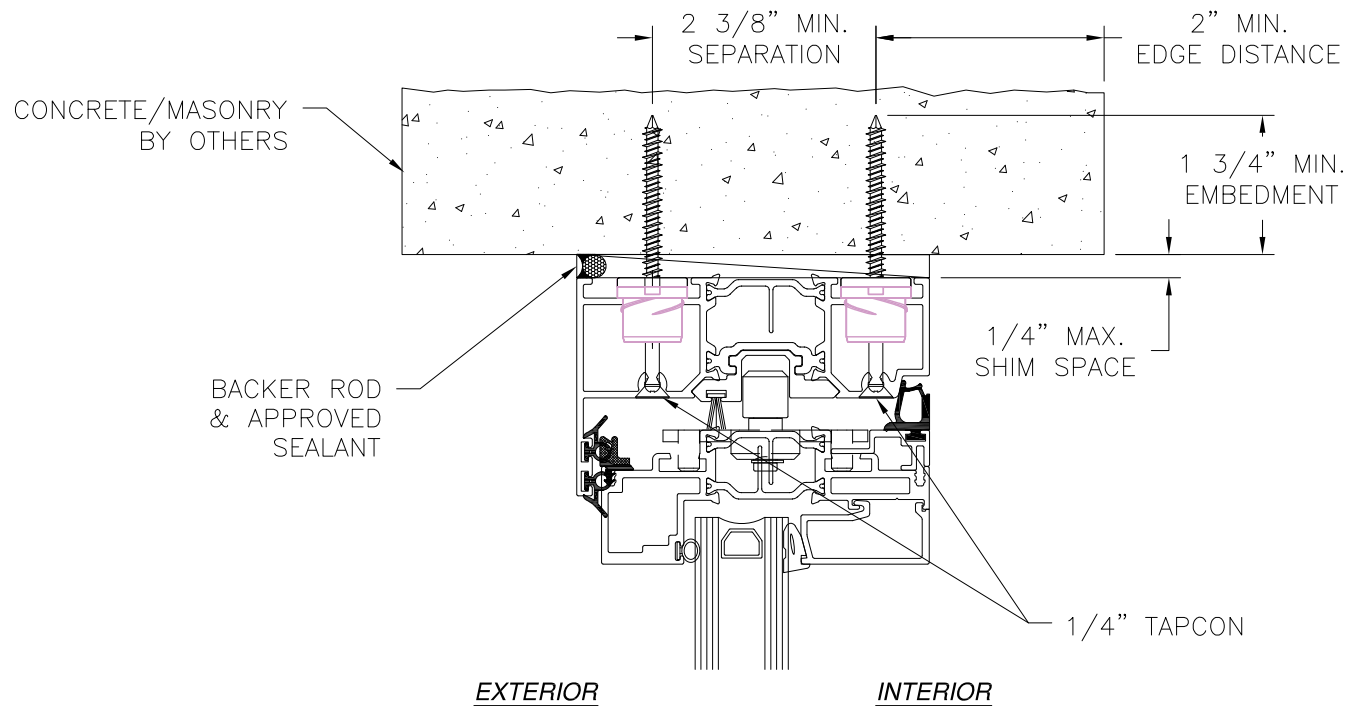
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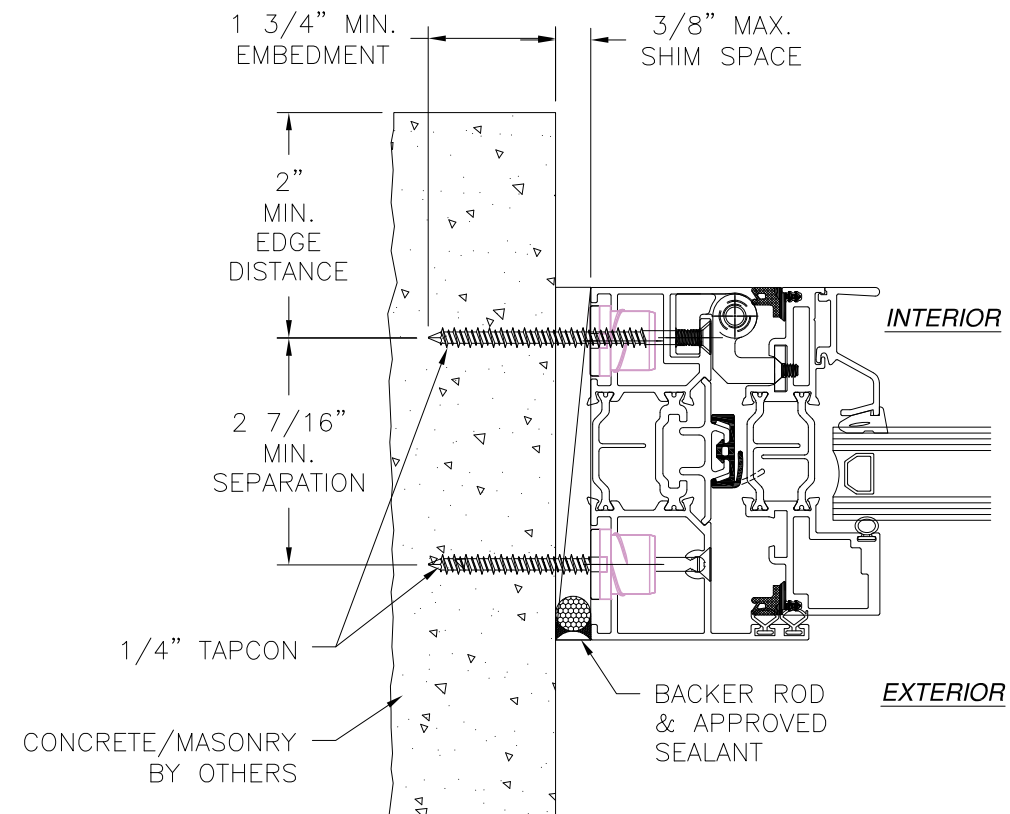


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**VERTICAL CROSS SECTION**  
CONCRETE/MASONRY INSTALLATION

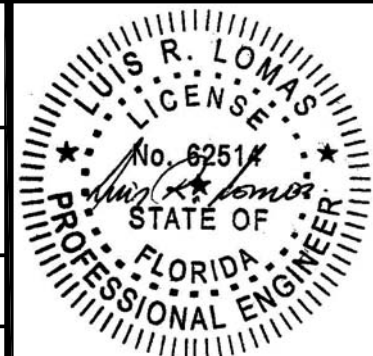


**JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY INSTALLATION

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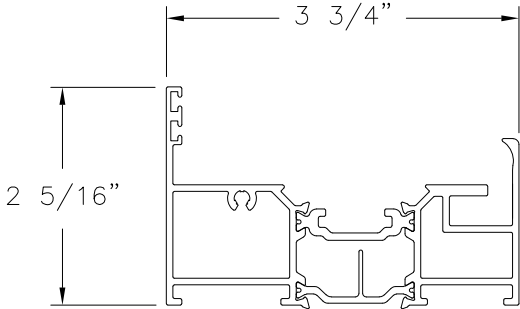
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| PALISADES S90 THERMALLY BROKEN ALUMINUM<br>INSWING FOLDING DOOR NON-IMPACT<br>INSTALLATION DETAILS    |                     |                 |
| DRAWN:<br>A.R.                                                                                        | DWG NO.<br>08-03806 | REV<br>-        |
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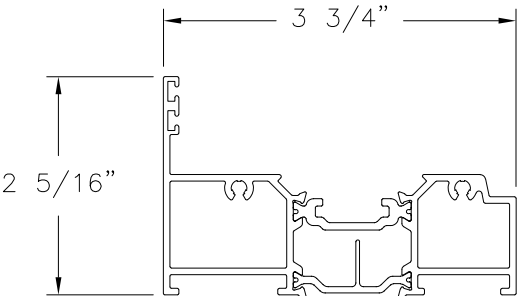


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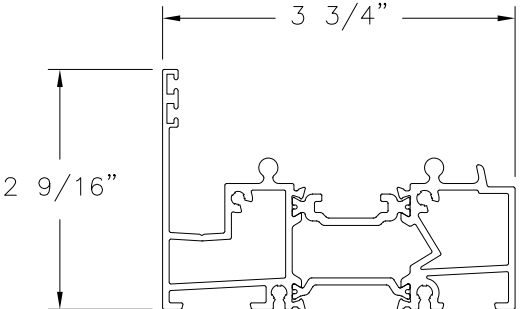
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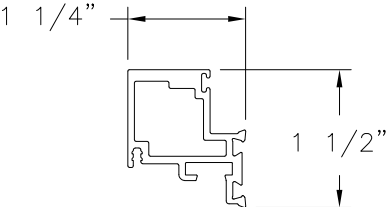
**LATERAL FRAME (S85HJAMB)**  
ALUMINUM 6063-T5



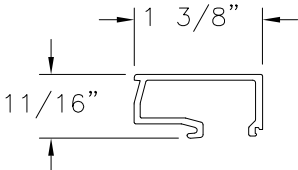
**TOP TRACK (S85HEAD)**  
ALUMINUM 6063-T5



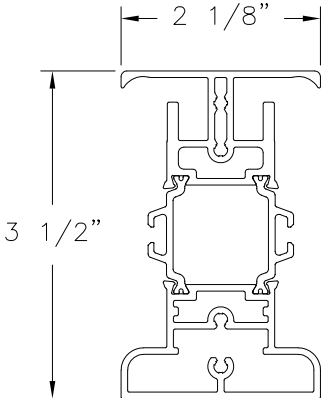
**SILL / BOTTOM TRACK (S851SS1LL)**  
ALUMINUM 6063-T5



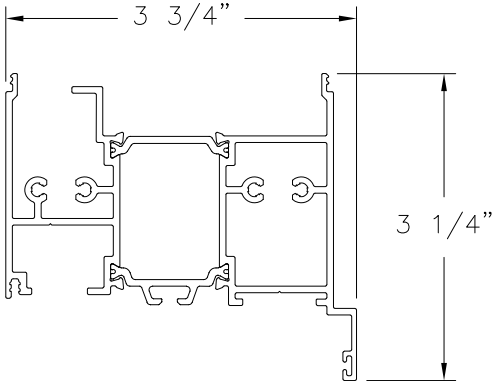
**PANEL (S85PANEL)**  
ALUMINUM 6063-T5



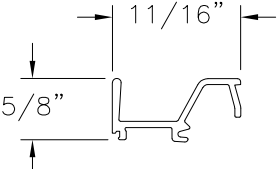
**GLAZING STOP (S85GLHV)**  
ALUMINUM 6063-T5



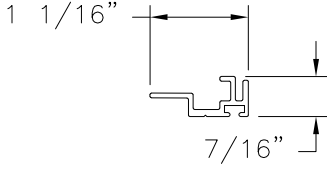
**POST / REINFORCEMENT MULLION (S8POST)**  
ALUMINUM 6063-T5



**PANEL JAMB EXTENDER (S85JAMBEXT)**  
ALUMINUM 6063-T5



**PULL HANDLE (S85GLV)**  
ALUMINUM 6063-T5



**GASKET RETAINER (S85SHGR)**  
ALUMINUM 6063-T5

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INSWING FOLDING DOOR NON-IMPACT  
COMPONENTS

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