

REVISIONS			
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 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 1/4” 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 WITH WOOD BACKING

SIGNED: 04/05/2022

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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 NOTES

DRAWN:

A.R.

DWG NO.

08–03805

REV

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SCALE

NTS

DATE

02/09/2022

SHEET

1

 OF

8

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LUIS R. LOMAS

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No. 62514

STATE OF FLORIDA

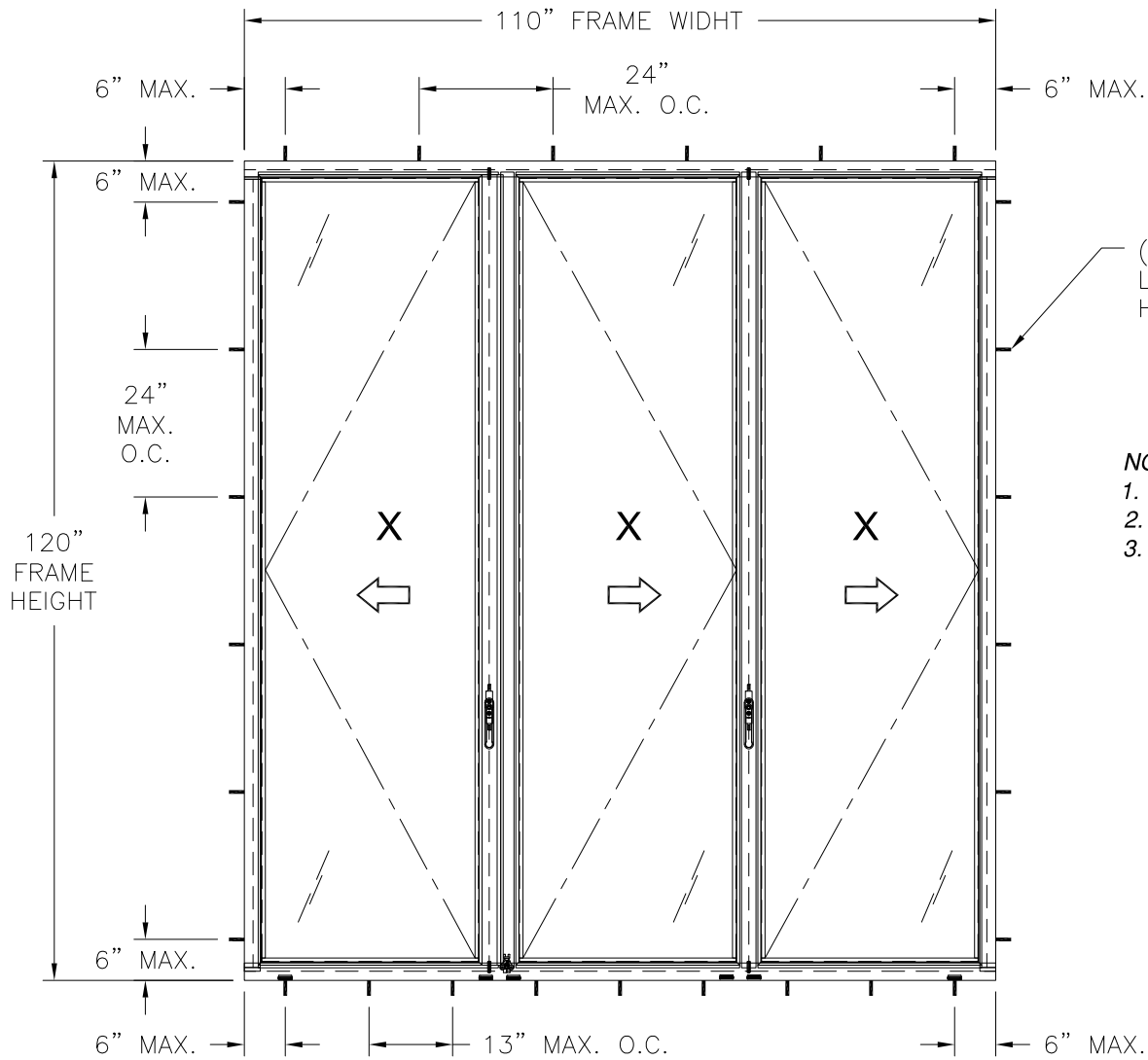
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.

FL No.: 62514

EXTERIOR

INTERIOR



PALISADES S90 BI-FOLD DOOR INSWING 1L2R

INTERIOR VIEW

1L2R CONFIGURATION SHOWN 2L, 2R, 2L1R, 4L, 4R, 2L2R, 4L1R, 1L4R, 3L2R AND 2L3R ARE ALSO APPROVED AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED 28.1 FT²

DESIGN PRESSURE RATING	IMPACT RATING
±40.0PSF	NONE

HARDWARE SCHEDULE

A.	(2) END DAMS (S85EDBRL/S85EDBRR) AT SILL ON BOTH ENDS OF SYSTEM
B.	(25) CONCEALED HINGE (S85H1NGE) AT STILES OF EACH PANEL PIVOT
C.	(2) CATCH BACK PLATE (S85CATCHBP) AT BI-FOLD INTERMEDIATE POST
D.	(2) TOP/BOTTOM BOLT GUIDE (S85BOLTGUIDE) AT BI-FOLD INTERMEDIATE POST
E.	(2) SS CATCH BOLT (S85CATCHBOLT) AT BI-FOLD INTERMEDIATE POST
F.	(1) S85 CYLINDERKIT 80 LOCK ASSEMBLY (TH7824238/TH7864219/TH7974227) AT LOCK STILE OF SIDE HINGED DOOR 37 3/4" FROM SILL
G.	(1) S85 CYLINDERKIT 80 STRIKE ASSEMBLY (TH70199/TH70299/TH70399) OPPOSITE LOCK STILE 37 3/4" FROM SILL
H.	(1) ROLLER (S85BROLLER) AT BOTTOM OF INTERMEDIATE POST
I.	(1) TOP GUIDE (S85TGU1DE) AT TOP OF PANEL ASSEMBLIES

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Chart #1

Maximum Design pressure (psf)

Panel Height (in)	Single Panel Width (in)									
	24.00		30.00		35.00		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	40.0	60.0	40.0	60.0	40.0	60.0	40.0	55.5	40.0	51.2
84.00	40.0	60.0	40.0	60.0	40.0	59.1	40.0	52.0	40.0	47.8
90.00	40.0	60.0	40.0	60.0	40.0	54.2	40.0	47.5	-	-
96.00	40.0	60.0	40.0	56.6	40.0	50.1	40.0	43.7	-	-
102.00	40.0	60.0	40.0	52.7	40.0	46.5	-	-	-	-
108.00	40.0	59.7	40.0	49.3	40.0	43.4	-	-	-	-
114.00	40.0	56.2	40.0	46.3	40.0	40.7	-	-	-	-
115.75	40.0	55.2	40.0	45.5	40.0	40.0	-	-	-	-
120.00	40.0	51.3	40.0	41.4	-	-	-	-	-	-
126.00	40.0	44.2	35.7	35.7	-	-	-	-	-	-
132.00	38.4	38.4	31.0	31.0	-	-	-	-	-	-
138.00	33.6	33.6	-	-	-	-	-	-	-	-
144.00	29.5	29.5	-	-	-	-	-	-	-	-

WHERE WATER PENETRATION RESISTANCE IS REQUIRED

Chart #2

Maximum Design pressure (psf)

Panel Height (in)	Single Panel Width (in)									
	24.00		30.00		35.00		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	60.0	60.0	60.0	60.0	60.0	60.0	55.5	55.5	51.2	51.2
84.00	60.0	60.0	60.0	60.0	59.1	59.1	52.0	52.0	47.8	47.8
90.00	60.0	60.0	60.0	60.0	54.2	54.2	47.5	47.5	-	-
96.00	60.0	60.0	56.6	56.6	50.1	50.1	43.7	43.7	-	-
102.00	60.0	60.0	52.7	52.7	46.5	46.5	-	-	-	-
108.00	59.7	59.7	49.3	49.3	43.4	43.4	-	-	-	-
114.00	56.2	56.2	46.3	46.3	40.7	40.7	-	-	-	-
115.75	55.2	55.2	45.5	45.5	40.0	40.0	-	-	-	-
120.00	51.3	51.3	41.4	41.4	-	-	-	-	-	-
126.00	44.2	44.2	35.7	35.7	-	-	-	-	-	-
132.00	38.4	38.4	31.0	31.0	-	-	-	-	-	-
138.00	33.6	33.6	-	-	-	-	-	-	-	-
144.00	29.5	29.5	-	-	-	-	-	-	-	-

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED

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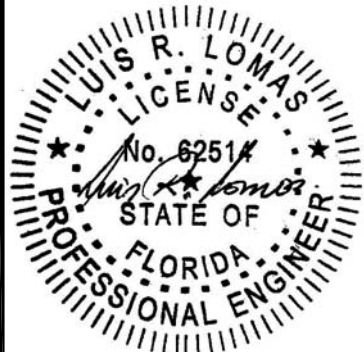
C.R. LAURENCE CO., INC.

2503 E. VERNON AVE.
LOS ANGELES, CA 90058

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

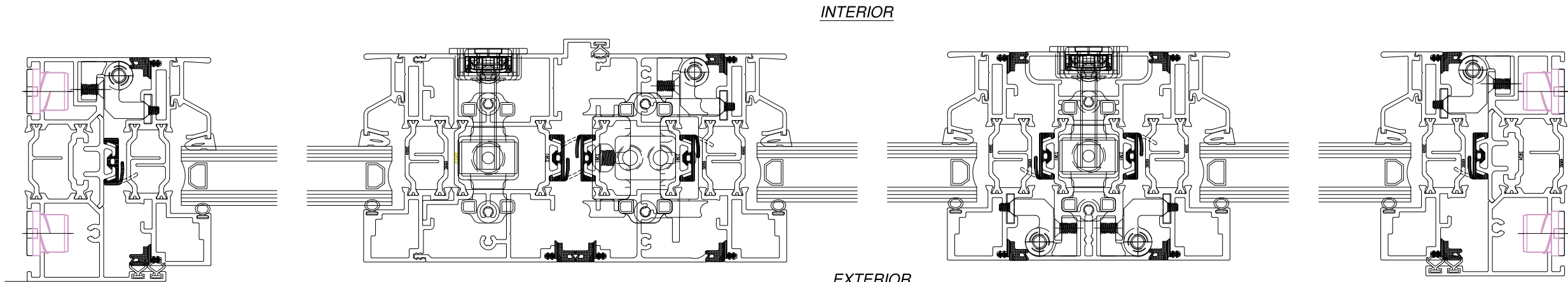
DRAWN: A.R.	DWG NO. 08-03805	REV -
SCALE NTS	DATE 02/09/2022	SHEET 2 OF 8

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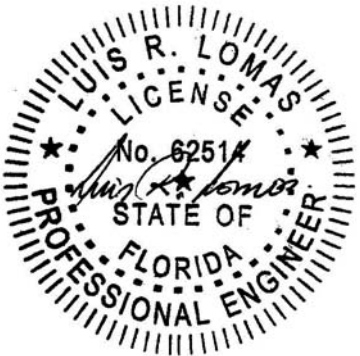
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HORIZONTAL CROSS SECTION

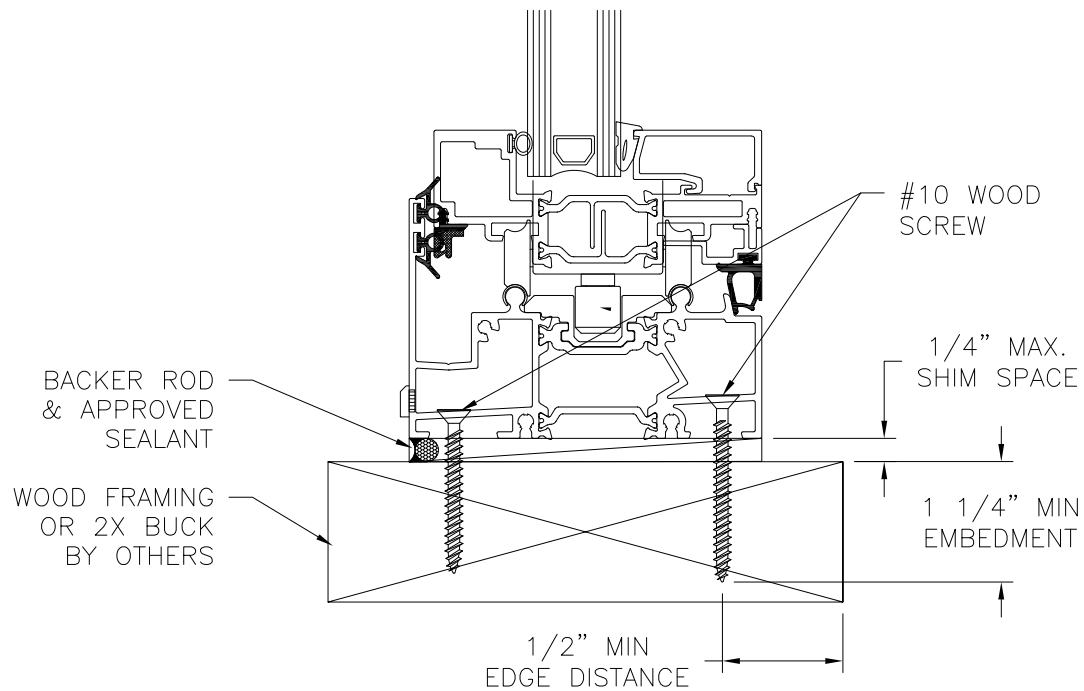
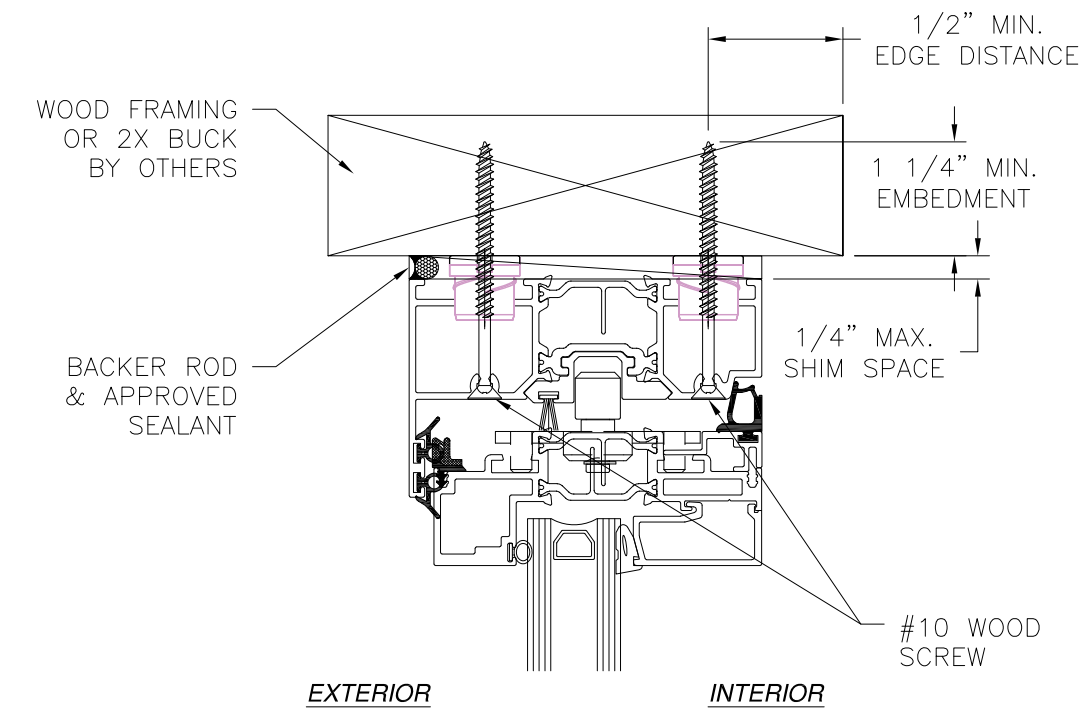
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PALISADES S90 THERMALLY BROKEN ALUMINUM INSWING FOLDING DOOR NON-IMPACT HORIZONTAL CROSS SECTIONS		
DRAWN: A.R.	DWG NO. 08-03805	REV -
SCALE NTS	DATE 02/09/2022	SHEET 3 OF 8
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

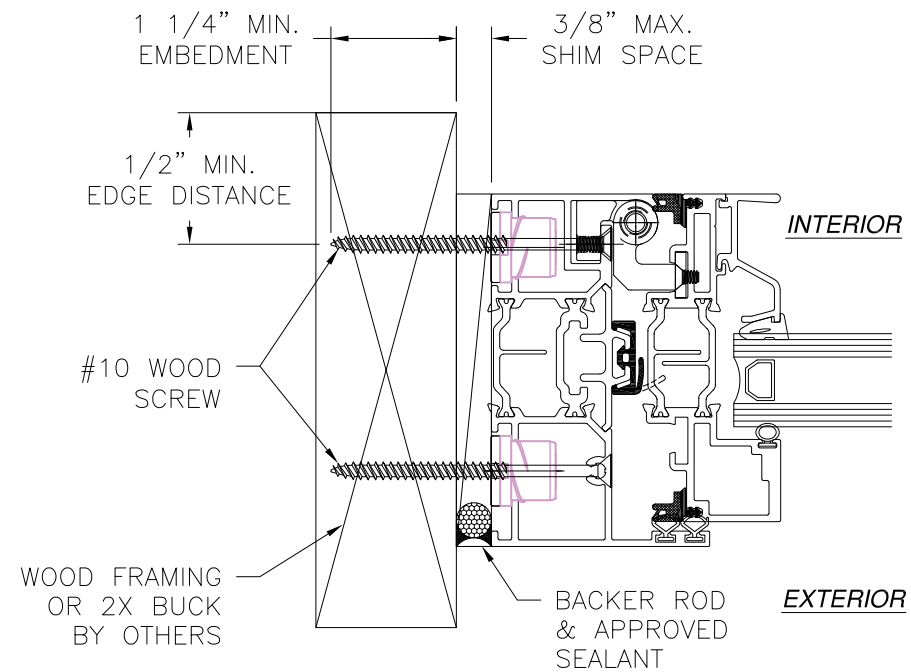


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



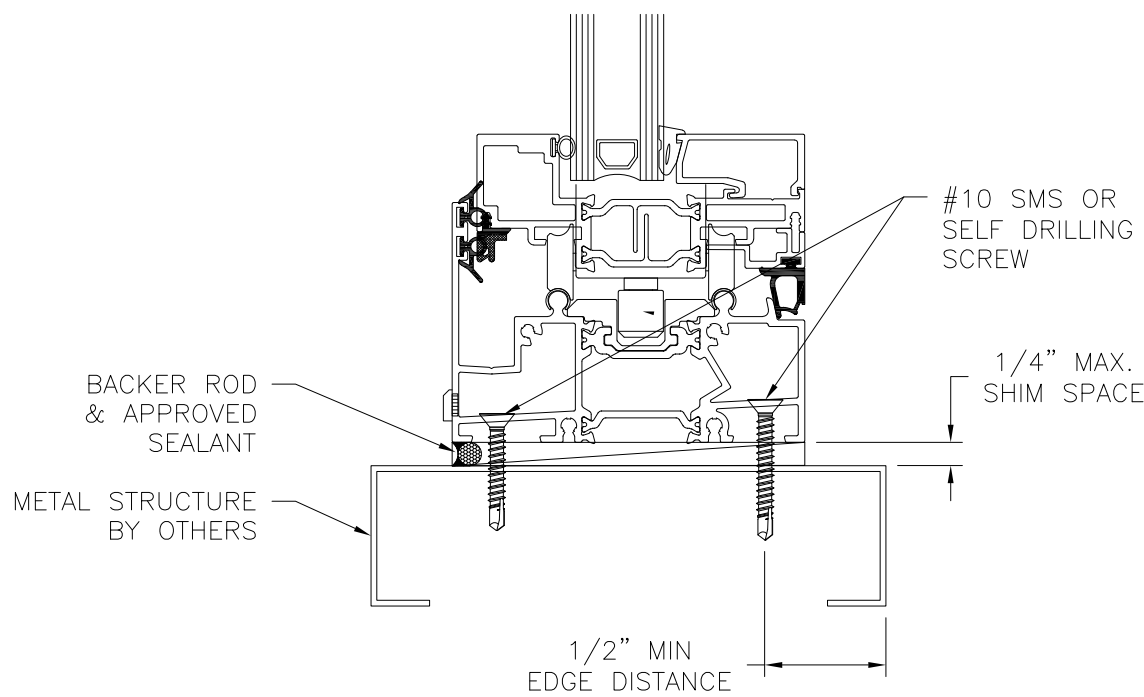
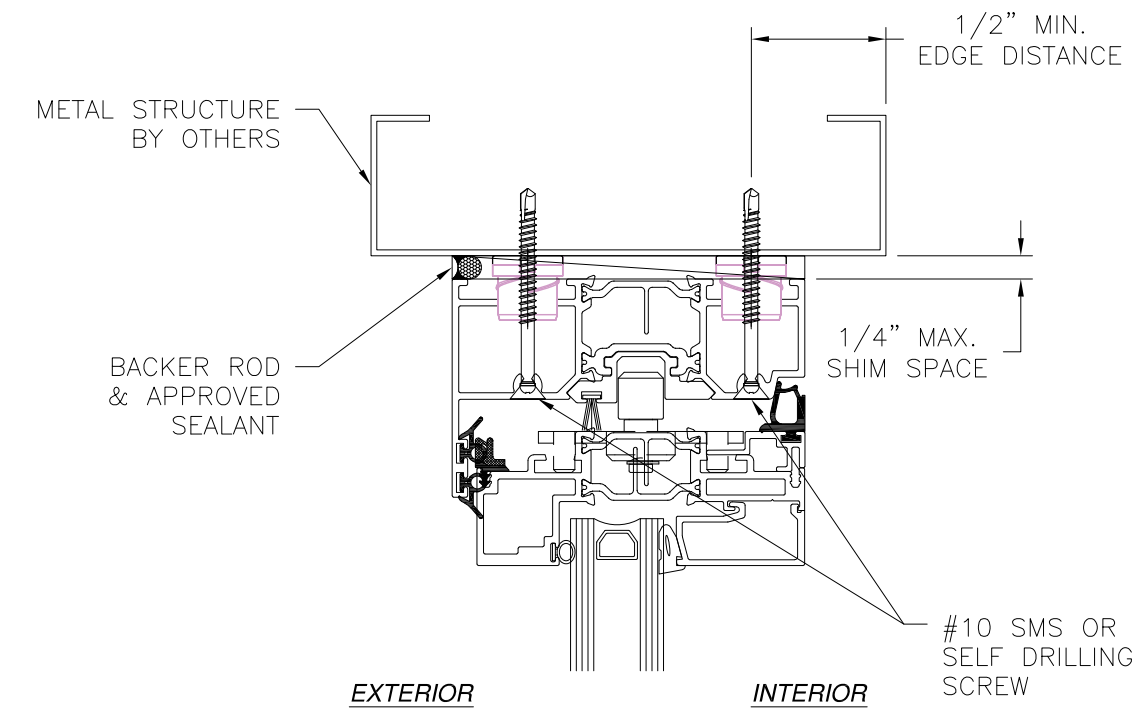
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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

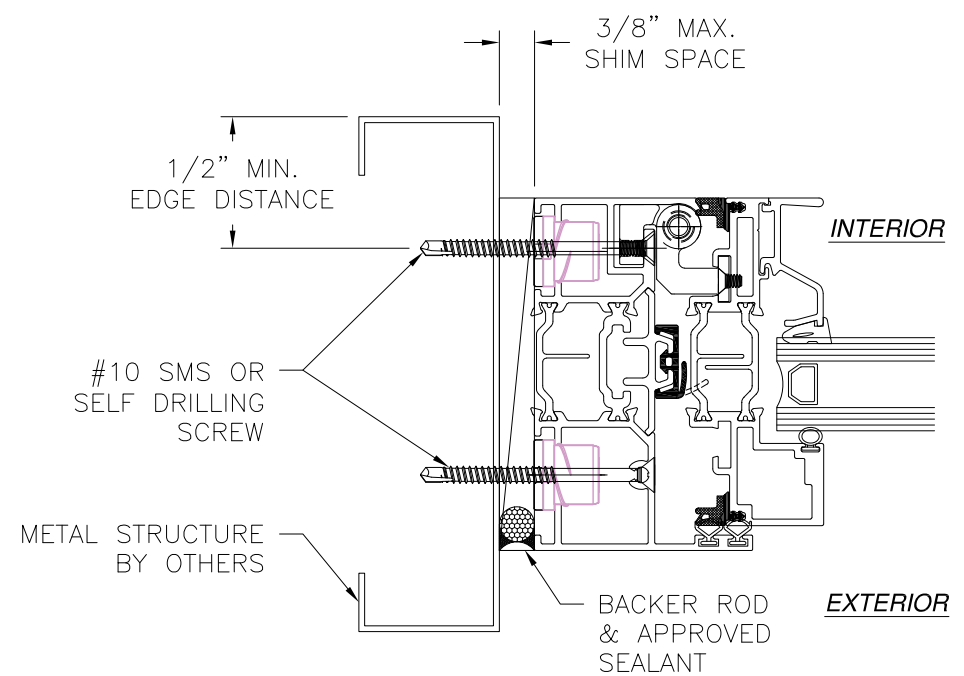
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PALISADES S90 THERMALLY BROKEN ALUMINUM INSWING FOLDING DOOR NON-IMPACT INSTALLATION DETAILS			
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SCALE NTS	DATE 02/09/2022	SHEET 4 OF 8	
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			Luis R. Lomas P.E. FL No.: 62514

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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

- NOTES:
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 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
INSWING FOLDING DOOR NON-IMPACT
INSTALLATION DETAILS

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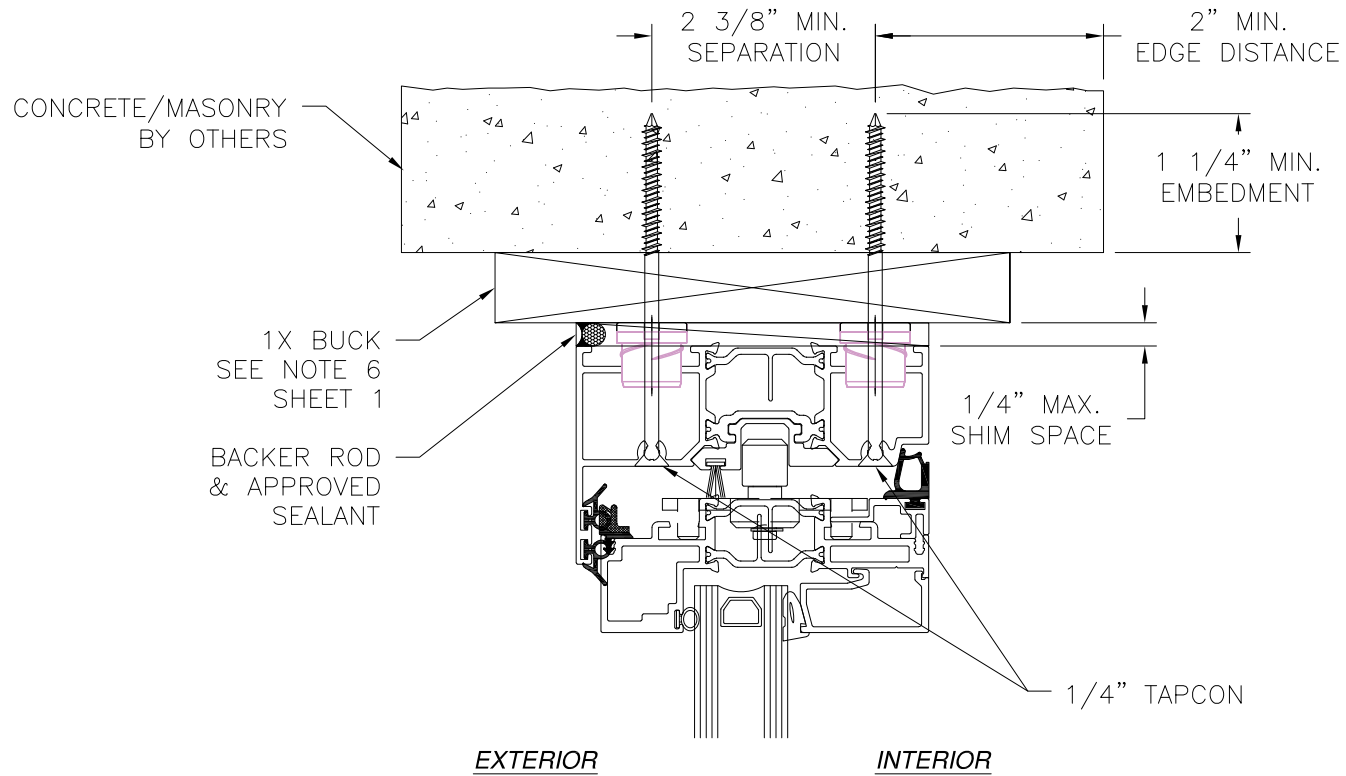
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5 OF 8

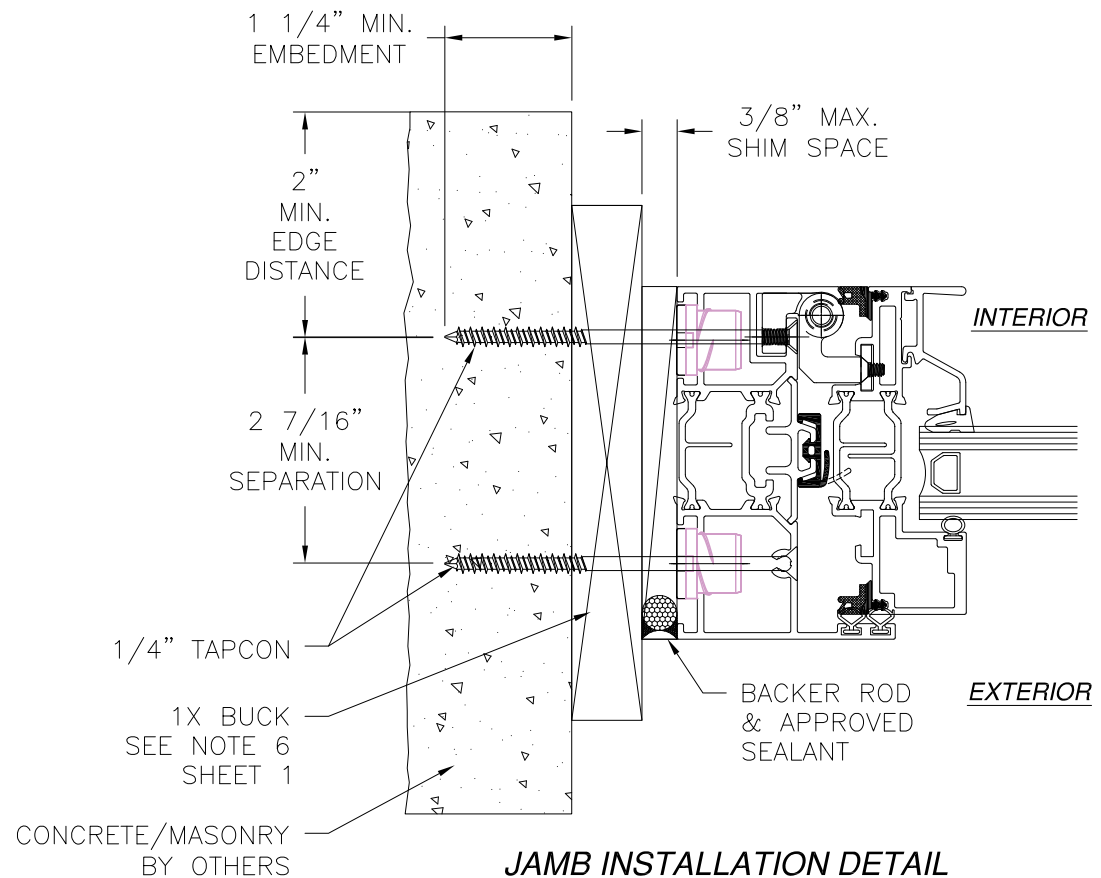
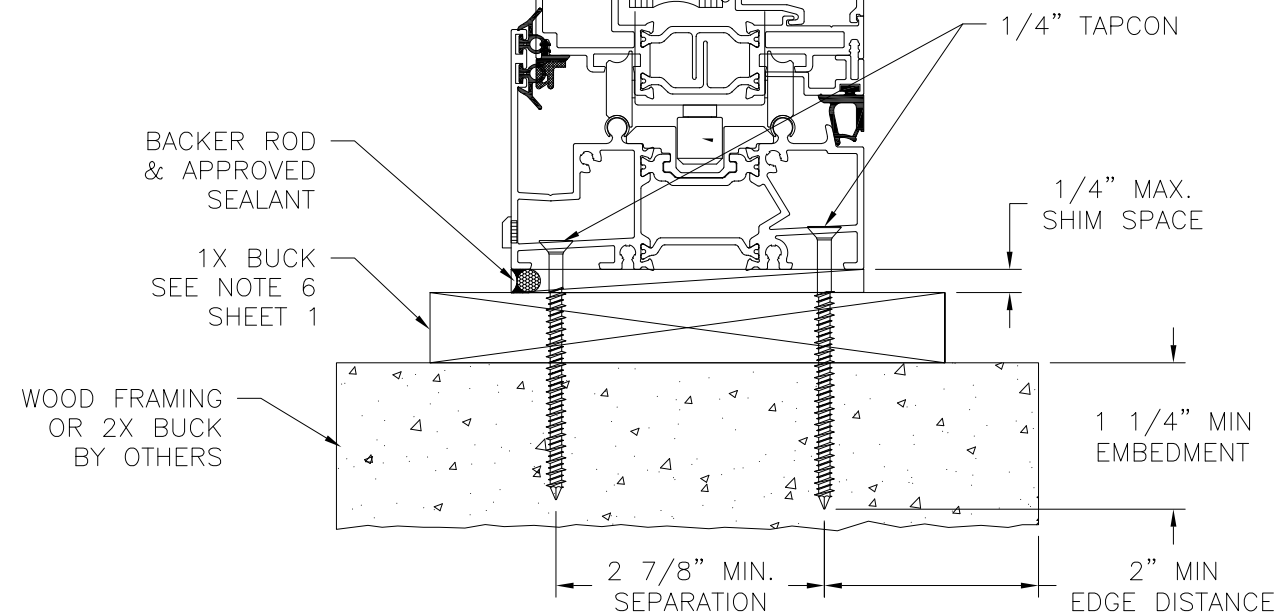
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VERTICAL CROSS SECTION
CONCRETE/MASONRY W/1X BUCK INSTALLATION



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

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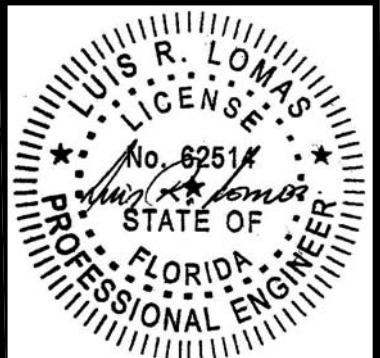
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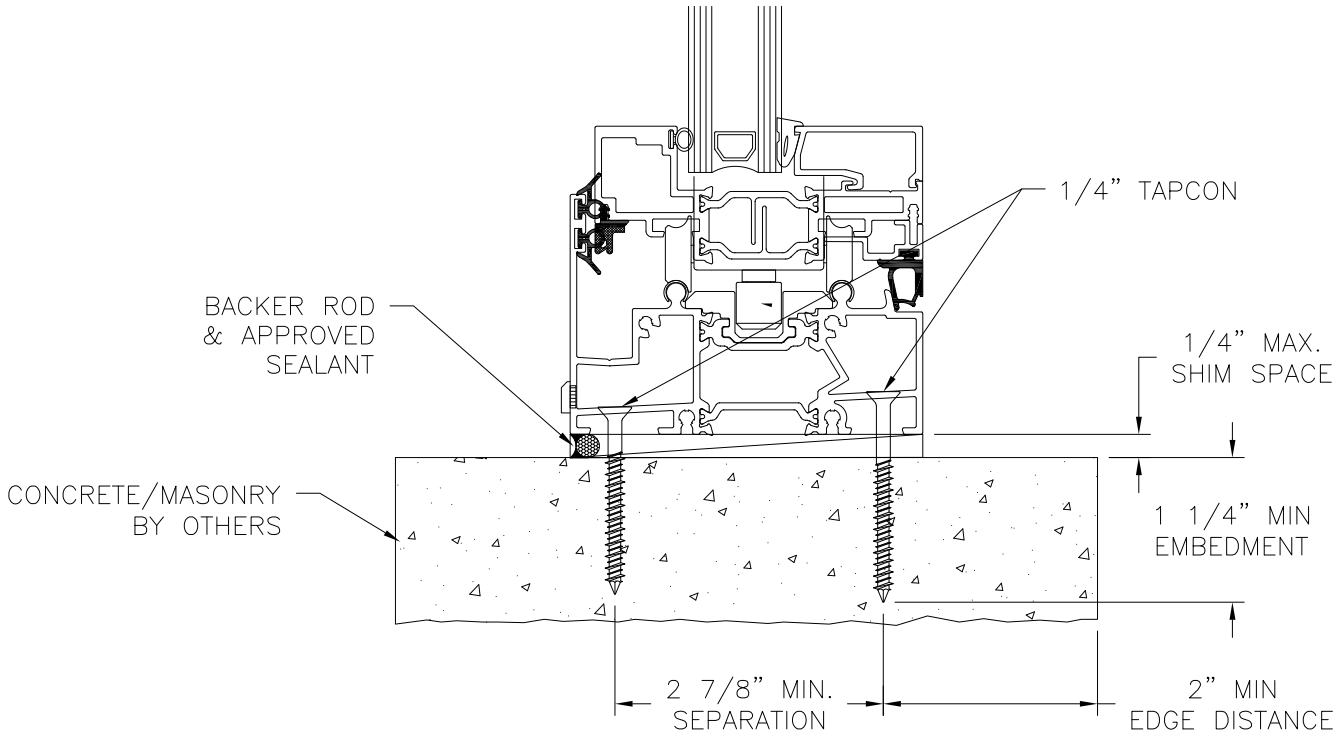
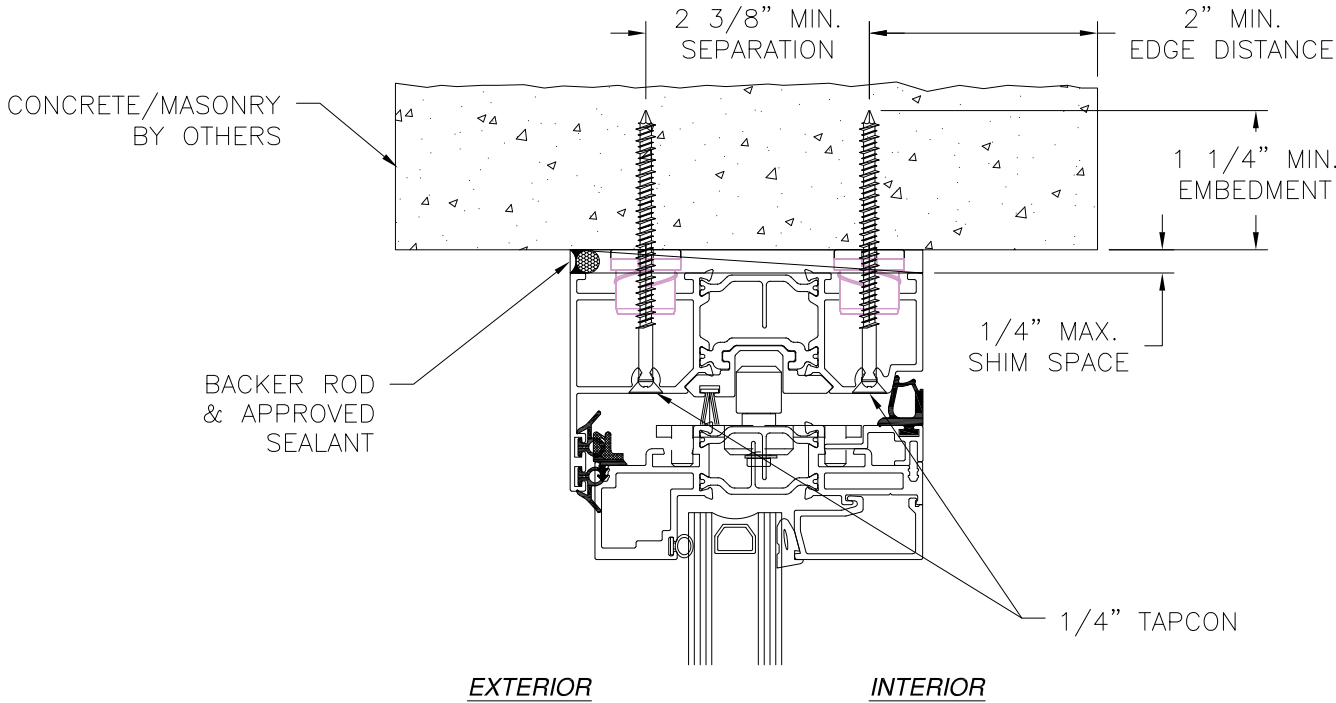
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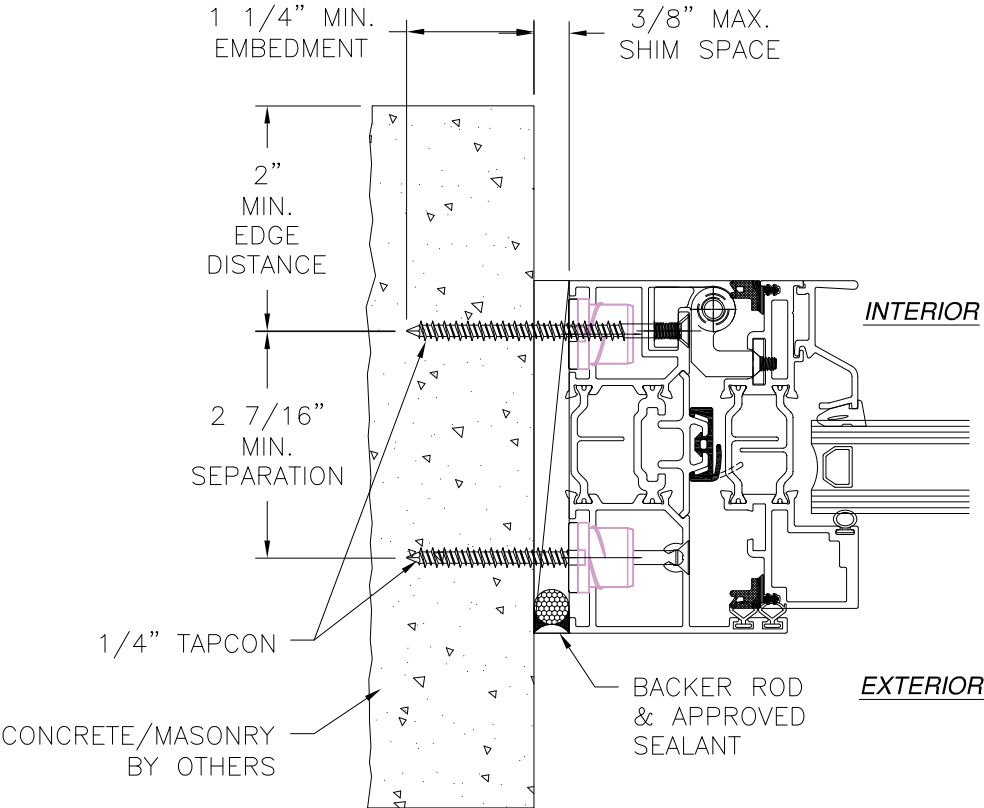


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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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 3. WEEP HOLES IN SADDLE SILL ARE FIELD INSTALLED

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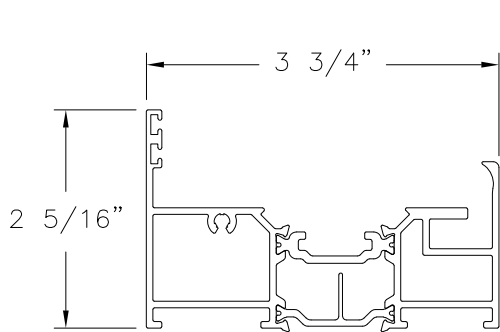
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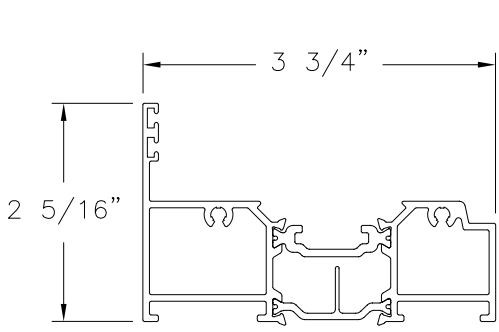


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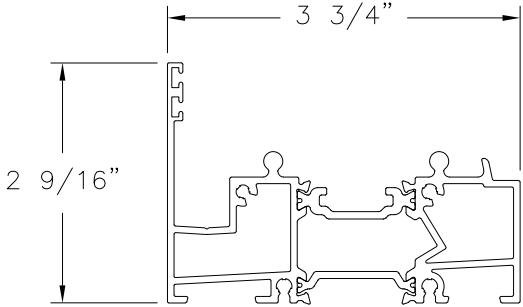
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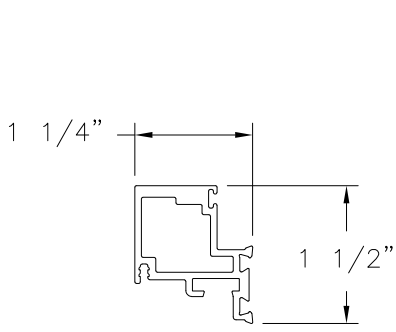
LATERAL FRAME (S85HJAMBDU)
ALUMINUM 6063-T5



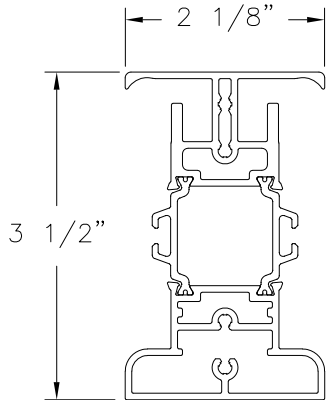
TOP TRACK (S85HEADDU)
ALUMINUM 6063-T5



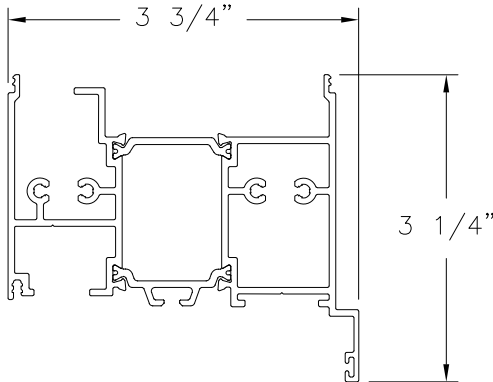
SILL TRACK (S851SS1LLDU)
ALUMINUM 6063-T5



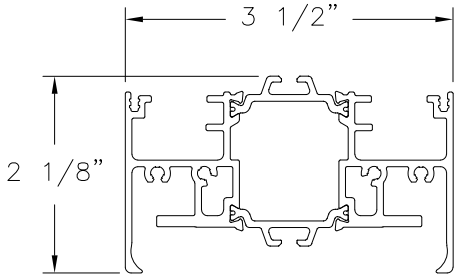
PANEL (S85PANELDU)
ALUMINUM 6063-T5



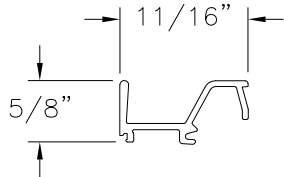
CONCEALED HINGE(S85H1NGE)
ALUMINUM 6063-T5



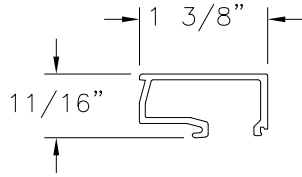
JAMB EXTENDER (S85JAMBEXT)
ALUMINUM 6063-T5



POST W/ROLLER (S85EVEN_ROLLER)
ALUMINUM 6063-T5



GLAZING STOP (S85GLV)
ALUMINUM 6063-T5



GLAZING STOP (S85GLHVDU)
ALUMINUM 6063-T5

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PALISADES S90 THERMALLY BROKEN ALUMINUM
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COMPONENTS

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