

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 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

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION AND DP CHART
3	HORIZONTAL CROSS SECTION
4 – 7	INSTALLATION DETAILS
8	COMPONENTS

C.R. LAURENCE CO., INC.

2503 E. VERNON AVE.

LOS ANGELES, CA 90058

PALISADES S90 THERMALLY BROKEN ALUMINUM OUTSWING FOLDING DOOR NON-IMPACT NOTES

DRAWN:

A.R.

DWG NO.

08-03808

REV

-

SCALE

NTS

DATE

02/14/2022

SHEET

1

 OF

8

L. ROBERTO LOMAS P.E.

400 S. PALM AVE, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

LUIS R. LOMAS

LICENS. M. S.

No. 62514

STATE OF FLORIDA

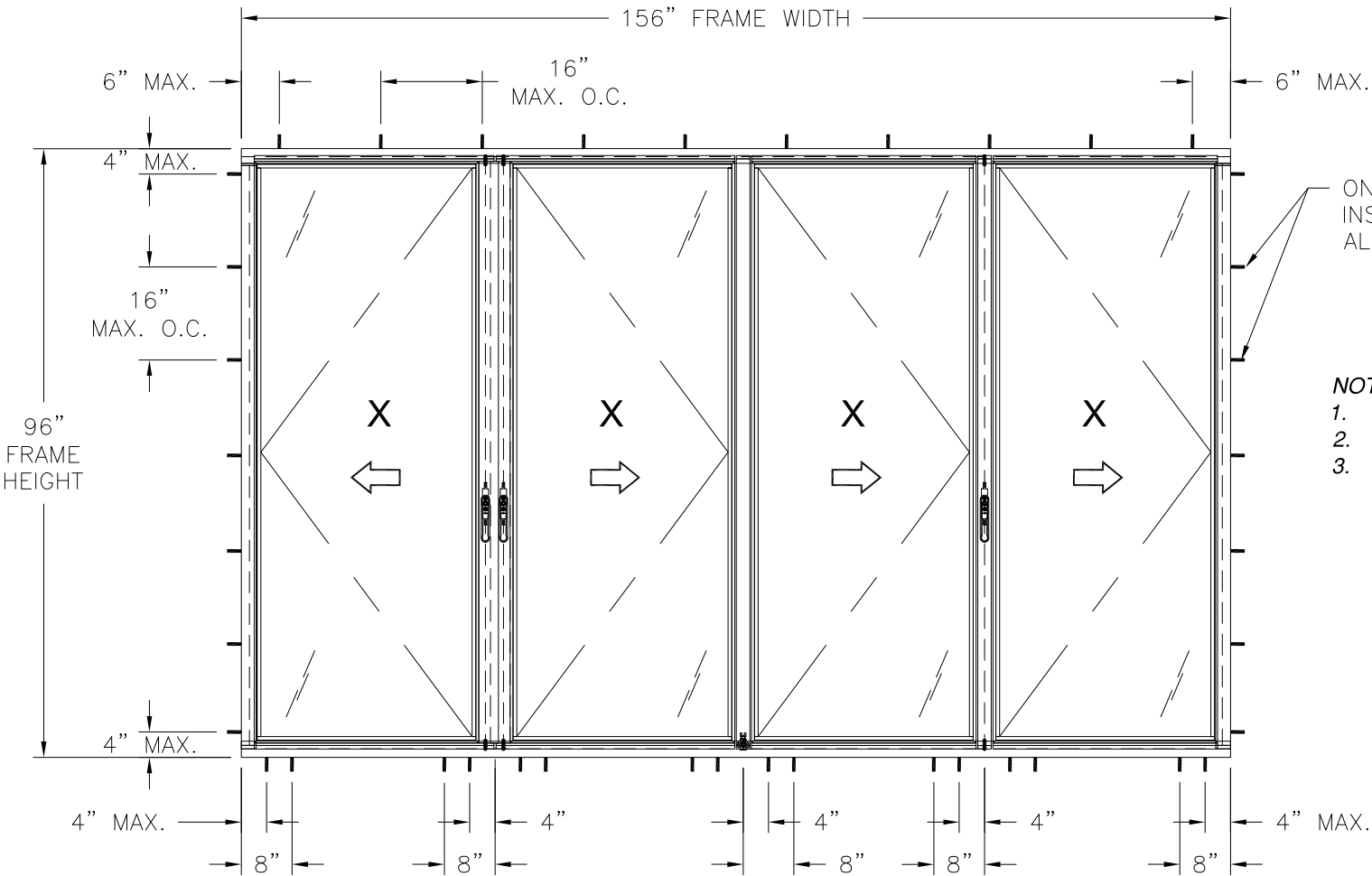
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.

FL No.: 62514

EXTERIOR

INTERIOR



PALISADES S90 BI-FOLD DOOR OUTSWING 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 FT²

DESIGN PRESSURE RATING	IMPACT RATING
±40.0PSF	NONE

HARDWARE SCHEDULE

A.	(2) LOCK HANDLE FOR SHOOT BOLTS AT POST BETWEEN PANELS A & B, AND ONE AT PANEL C RIGHT STILE, 37 3/4" FROM BOTTOM
B.	(1) DOOR HANDLE-LATCH LOCK AT 37 3/4" FROM BOTTOM OF PANEL D LEFT SIDE STILE
C.	(1) KEYED DEAD BOLT AT PANEL D LEFT SIDE STILE 34 1/4" FROM BOTTOM.
D.	(1) 4 WHEEL ROLLER (S85B) AT BOTTOM OF THE SECOND POST FROM THE LEFT
E.	(1) TOP ROLLER/GUIDE (S85T) AT TOP OF THE SECOND POST FROM THE LEFT
F.	(5 PER HINGE STILE/JAMB) S85 CONCEALED BUTT HINGE AT 8" AND 19 1/2" FROM EACH END AND ONE AT MIDSPAN FOR EACH HINGE STILE/JAMB
G.	(24) S85 LEVELER AT ALL JAMB AND HEAD ANCHOR SCREWS

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
-----	-------------	------	----------

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	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
92.50	54.9	54.9	45.7	45.7	40.0	40.0
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	-	-	-	-

NOTES:

- PANEL SIZE: 35 1/2" X 92 1/2"
- D.L.O. SIZE: 33 5/16" X 89 5/8"
- KEYED DEAD BOLT CONTROLLED A THREE POINT LOCK SYSTEM WITH LOCK POINTS AT 6 1/2", 35 3/4" AND 66 3/4" FROM THE BOTTOM

SIGNED: 04/05/2022

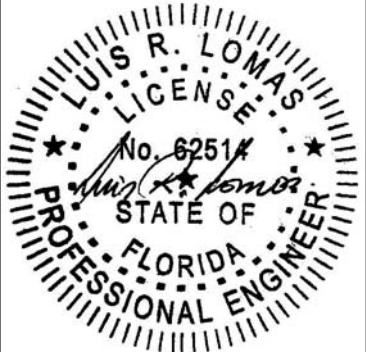
C.R. LAURENCE CO., INC.

2503 E. VERNON AVE.
LOS ANGELES, CA 90058

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

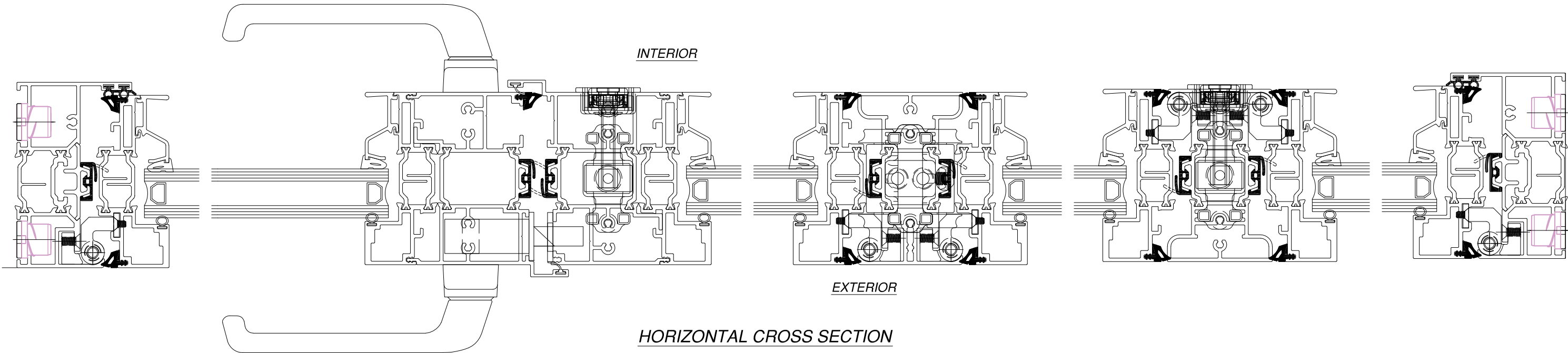
DRAWN: A.R.	DWG NO. 08-03808	REV -
SCALE NTS	DATE 02/14/2022	SHEET 2 OF 8

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



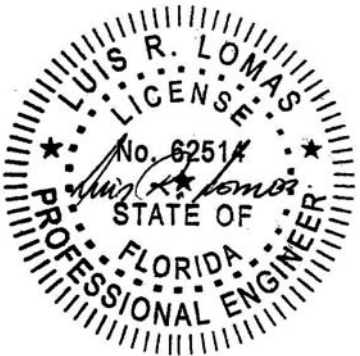
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



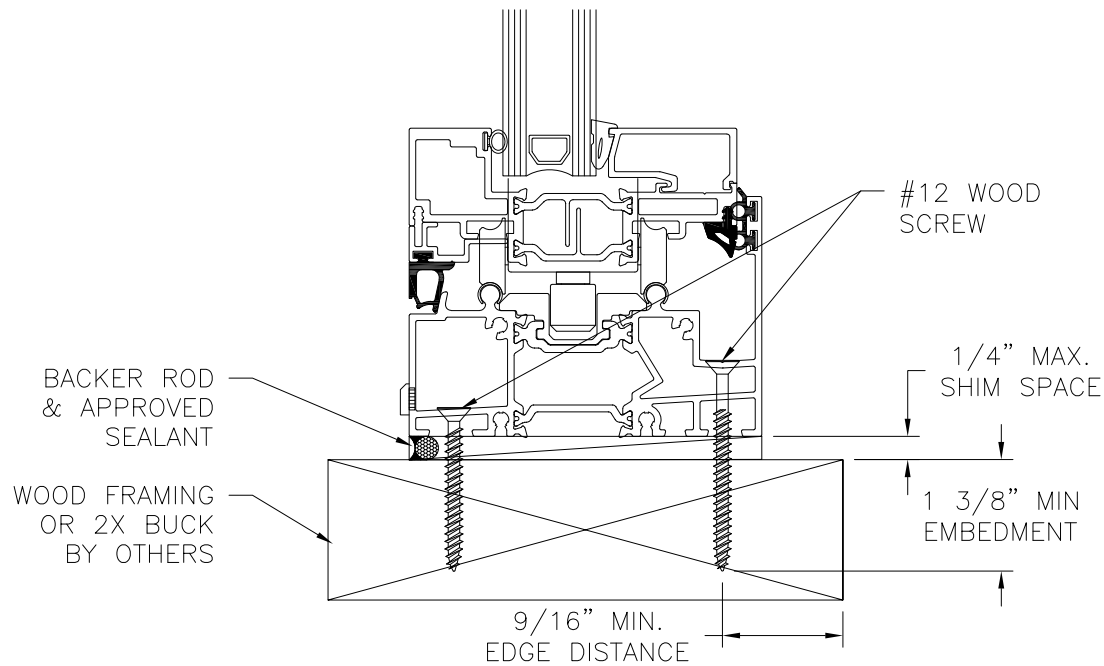
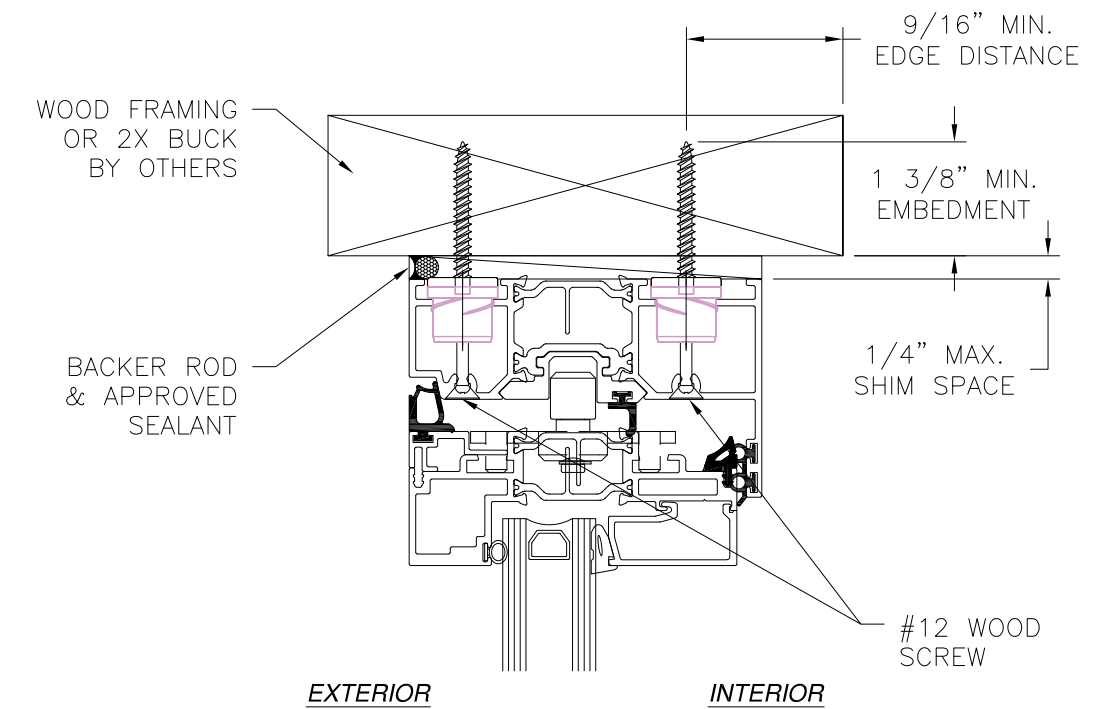
SIGNED: 04/05/2022

C.R. LAURENCE CO., INC. 2503 E. VERNON AVE. LOS ANGELES, CA 90058		
PALISADES S90 THERMALLY BROKEN ALUMINUM OUTSWING FOLDING DOOR NON-IMPACT HORIZONTAL CROSS SECTIONS		
DRAWN: A.R.	DWG NO. 08-03808	REV -
SCALE NTS	DATE 02/14/2022	SHEET 3 OF 8
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

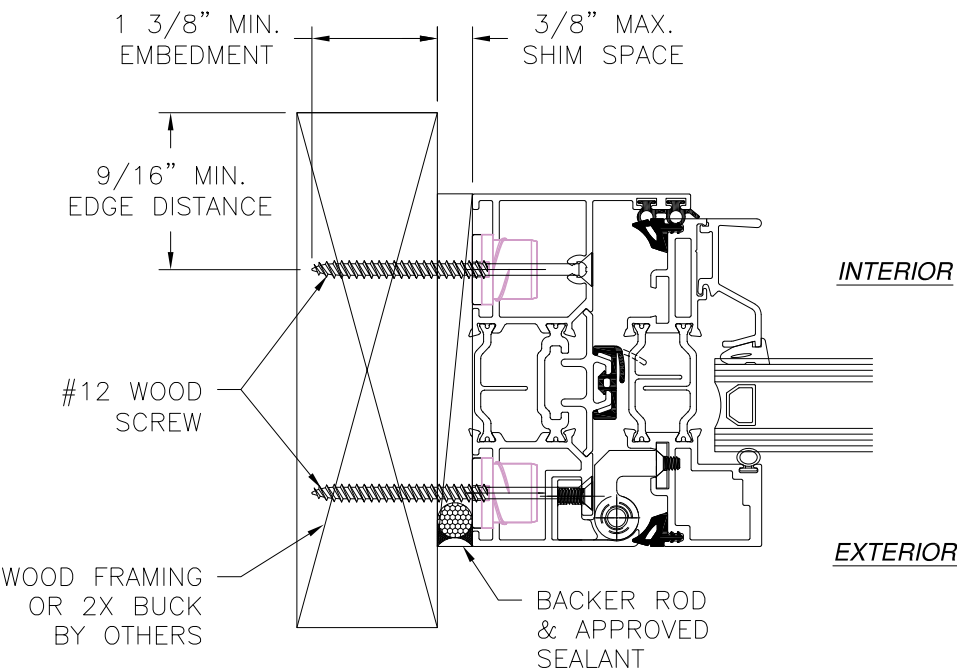


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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

SIGNED: 04/05/2022

C.R. LAURENCE CO., INC.

2503 E. VERNON AVE.
LOS ANGELES, CA 90058

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

DRAWN:

A.R.

DWG NO.

08-03808

REV

-

SCALE

NTS

DATE

02/14/2022

SHEET

4

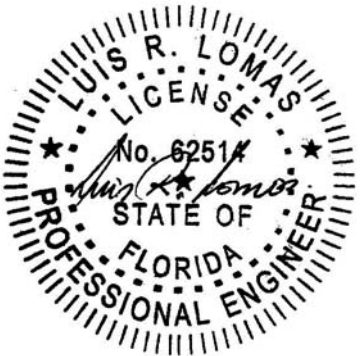
OF

8

L. ROBERTO LOMAS P.E.

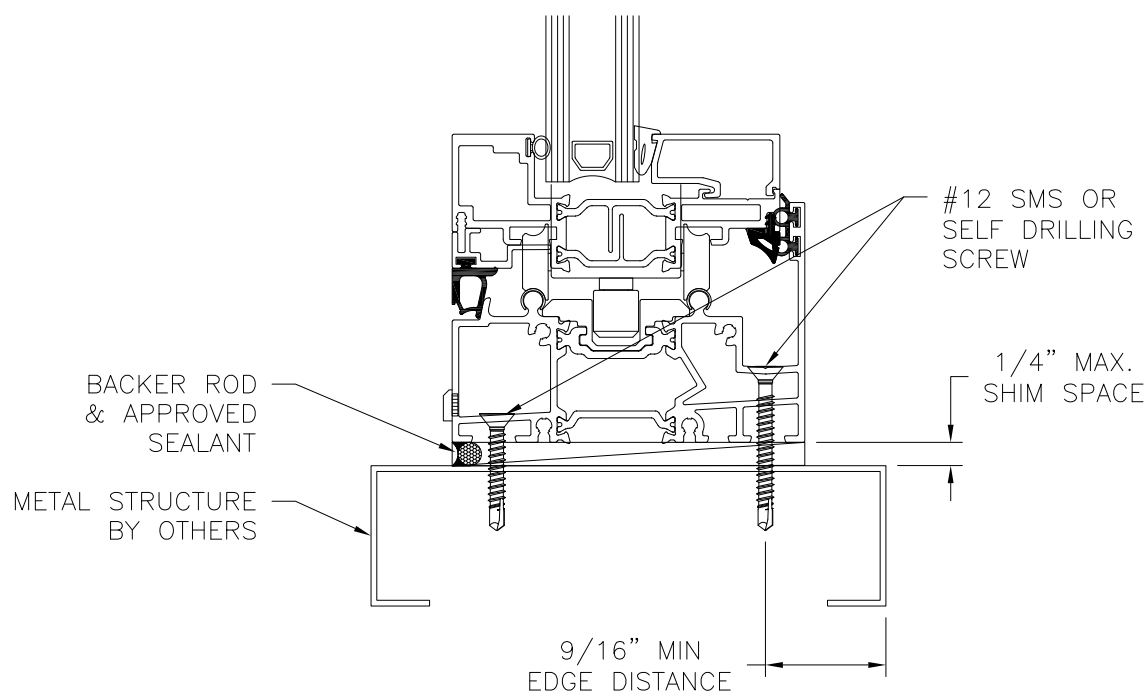
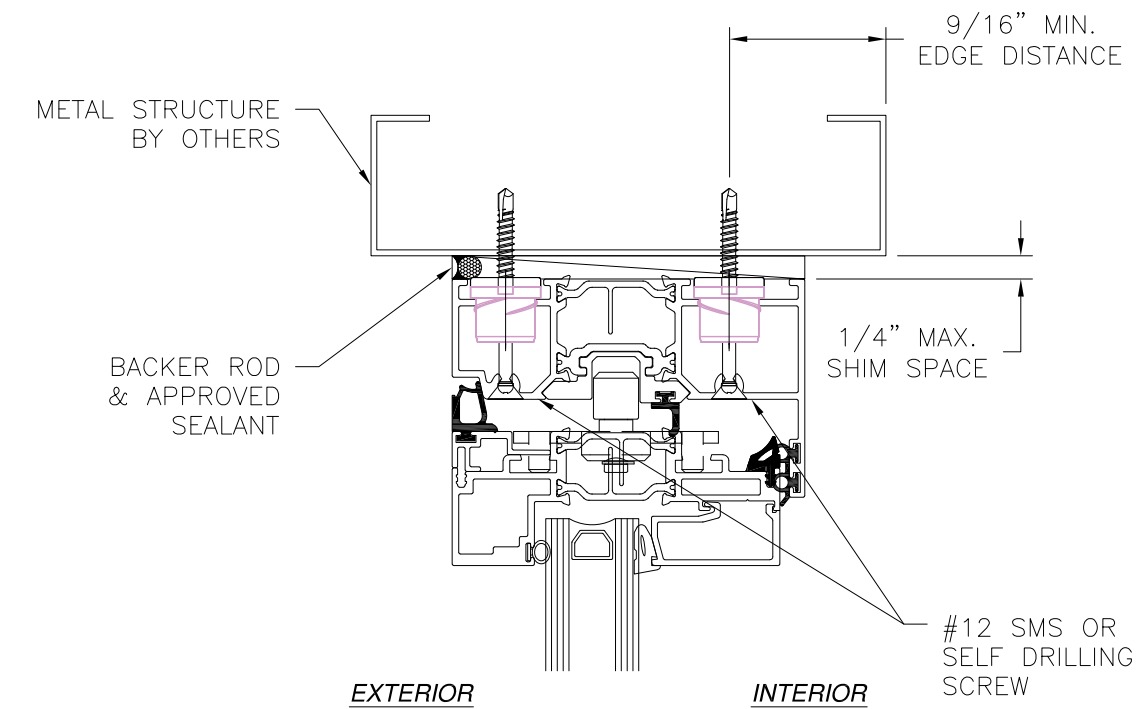
400 S. PALM AVE, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

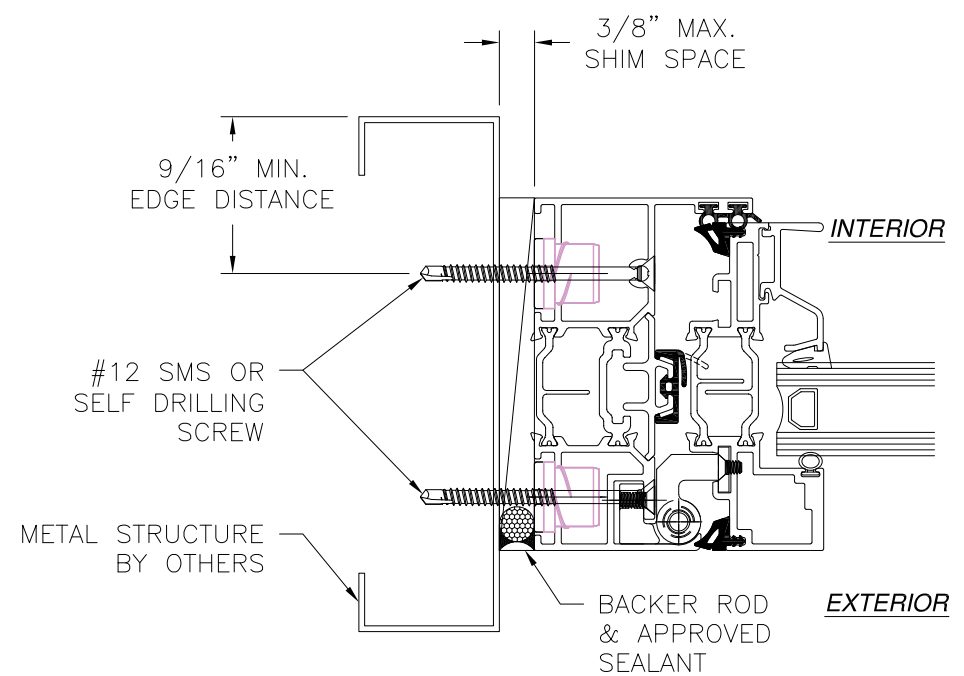


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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
OUTSWING FOLDING DOOR NON-IMPACT
INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03808

REV
-

SCALE
NTS

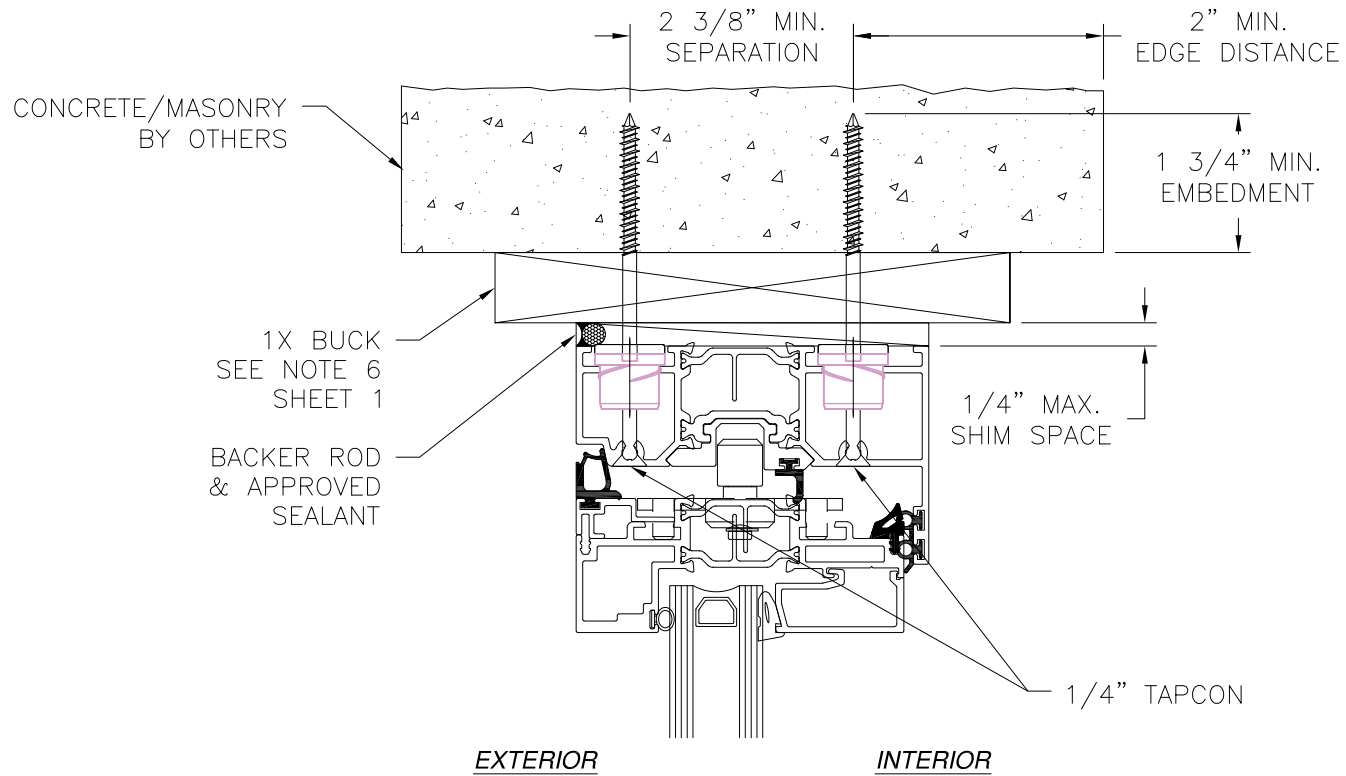
DATE
02/14/2022

SHEET
5 OF 8

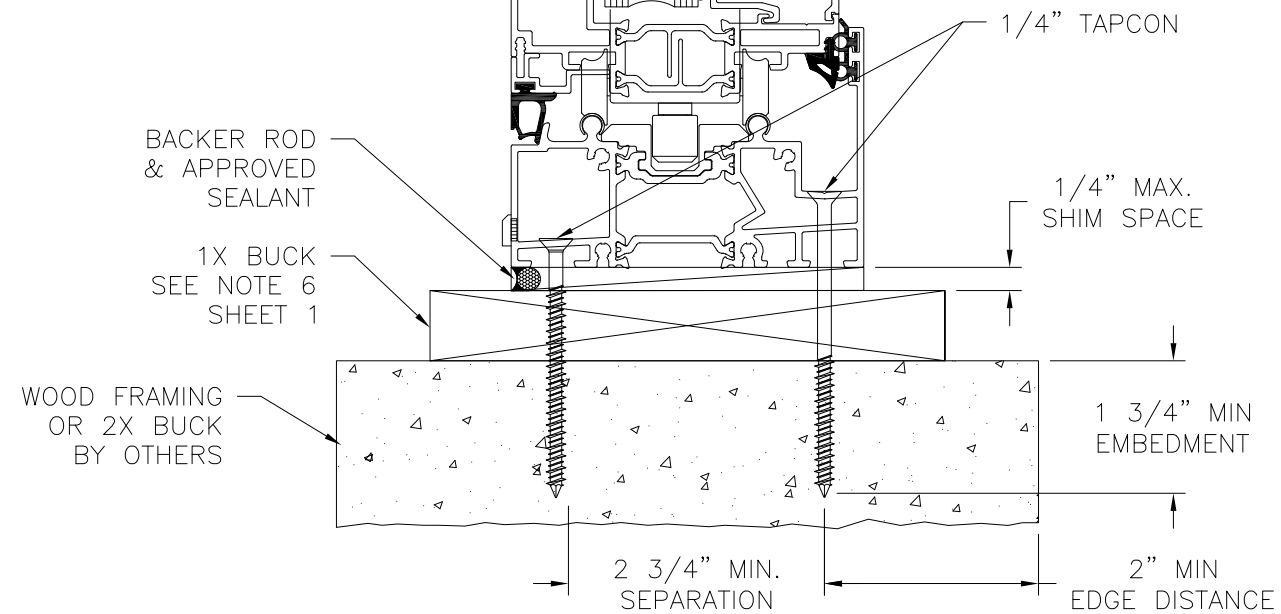
L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

Luis R. Lomas
Professional Engineer
State of Florida
No. 62514

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



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



JAMB CROSS SECTION
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.

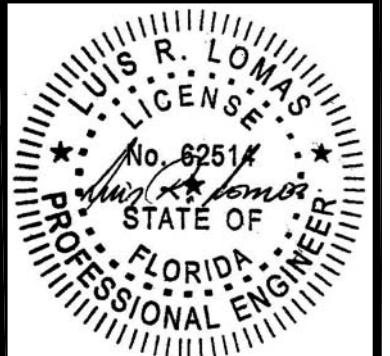
2503 E. VERNON AVE.
LOS ANGELES, CA 90058

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

DRAWN: A.R.	DWG NO. 08-03808	REV -
SCALE NTS	DATE 02/14/2022	SHEET 6 OF 8

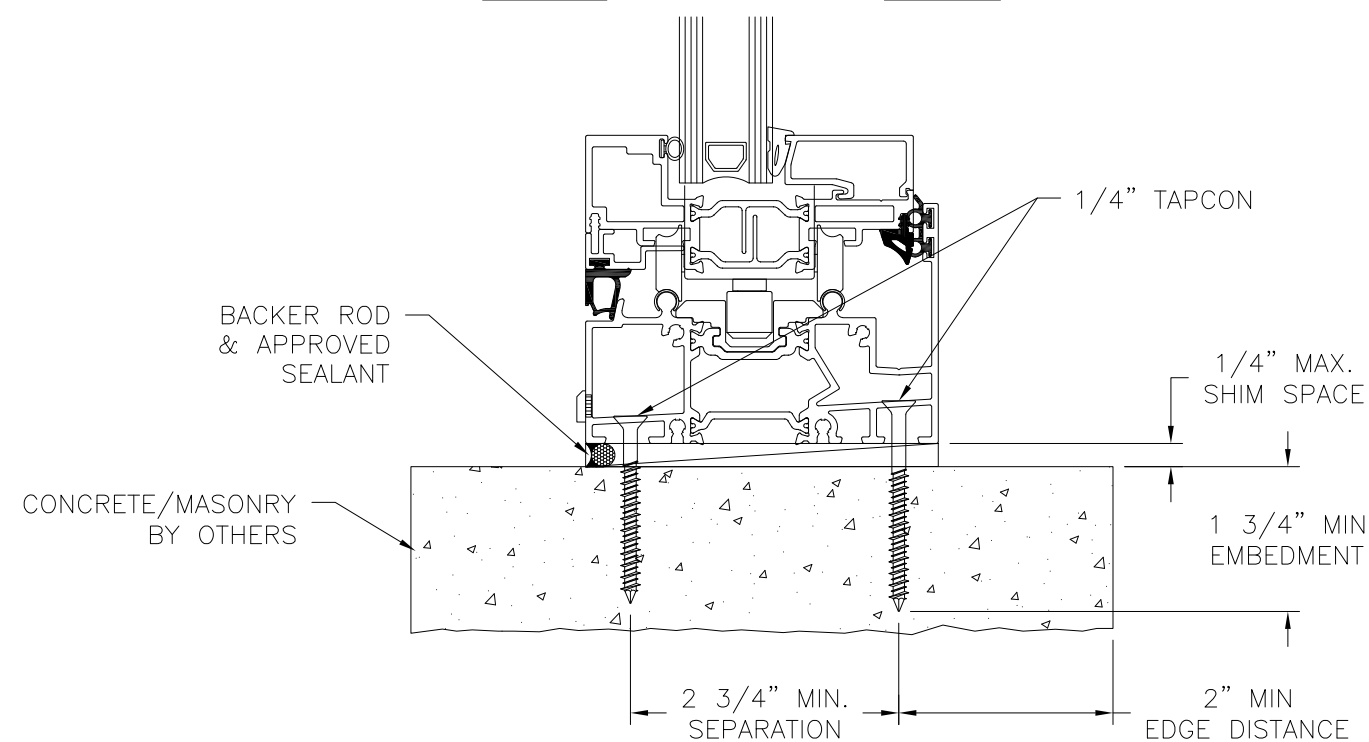
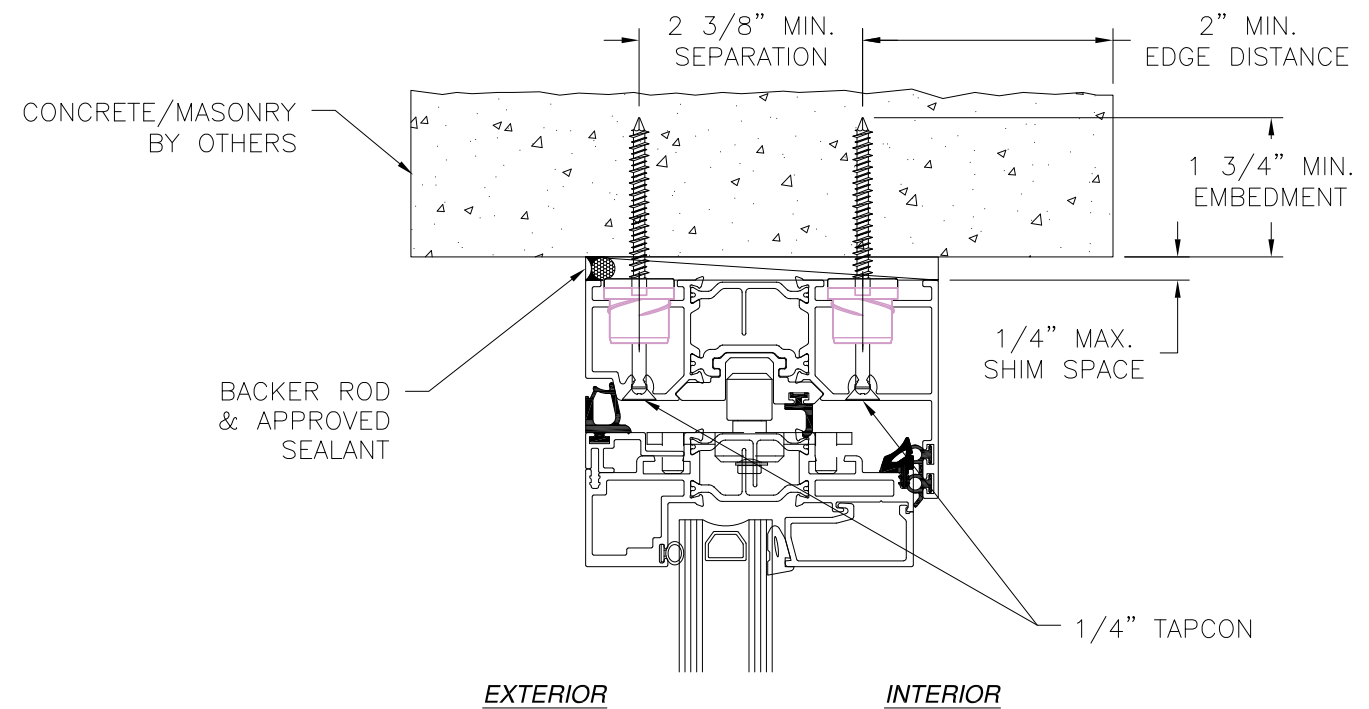
L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 04/05/2022

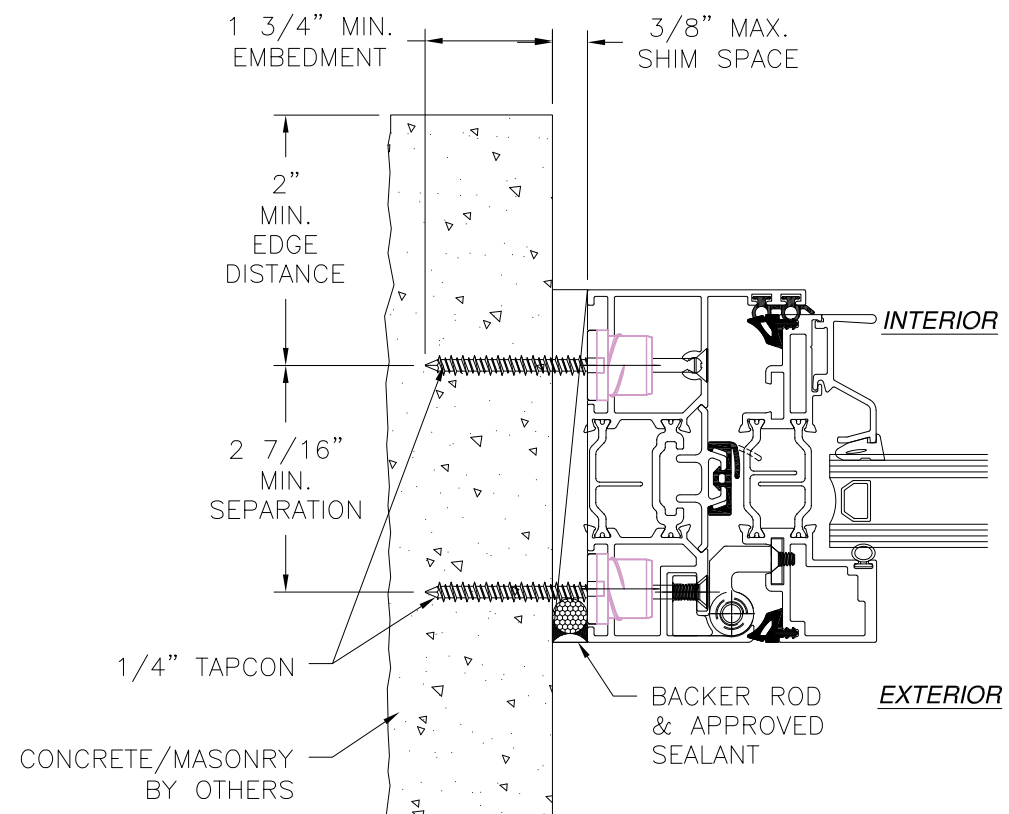


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

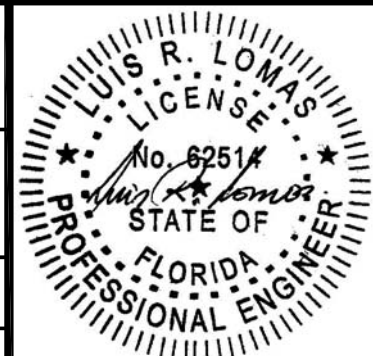


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

- 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

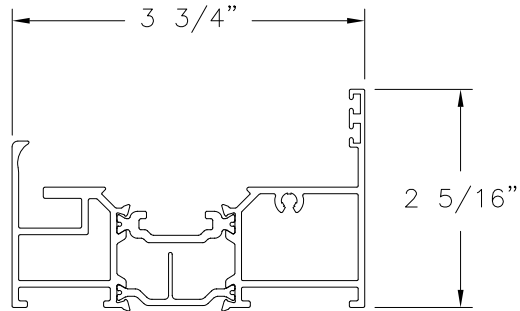
SIGNED: 04/05/2022

C.R. LAURENCE CO., INC.		
2503 E. VERNON AVE. LOS ANGELES, CA 90058		
PALISADES S90 THERMALLY BROKEN ALUMINUM OUTSWING FOLDING DOOR NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03808	REV -
SCALE NTS	DATE 02/14/2022	SHEET 7 OF 8
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

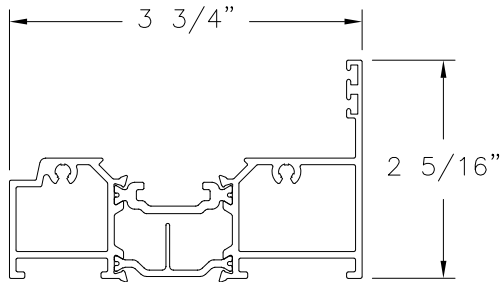


Luis R. Lomas P.E.
FL No.: 62514

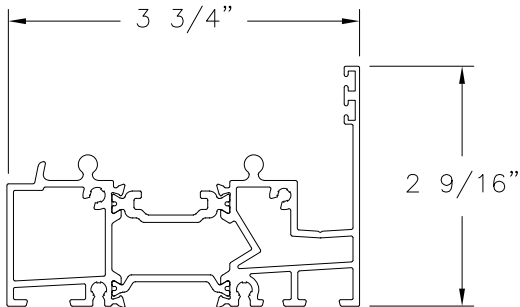
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



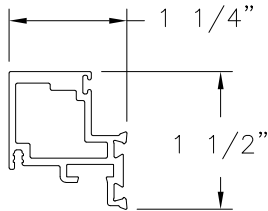
LATERAL FRAME (S85HJAMB)
ALUMINUM 6063-T5



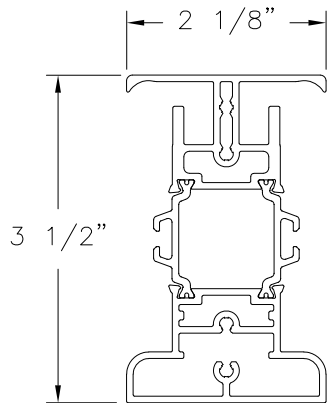
TOP TRACK (S85HEAD)
ALUMINUM 6063-T5



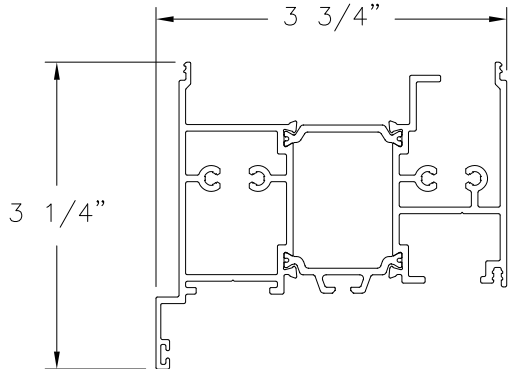
SILL / BOTTOM TRACK (S850SS1LL)
ALUMINUM 6063-T5



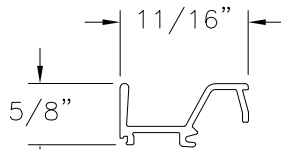
PANEL (S85PANELDU)
ALUMINUM 6063-T5



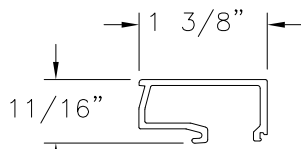
POST / REINFORCEMENT MULLION (S85POST)
ALUMINUM 6063-T5



PANEL JAMB EXTENDER (S85JAMBEXT)
ALUMINUM 6063-T5



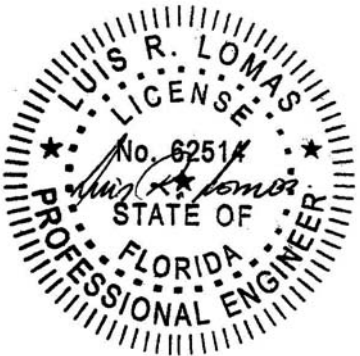
PULL HANDLE (S85GLV)
ALUMINUM 6063-T5



GLAZING STOP (S85GLHV)
ALUMINUM 6063-T5

SIGNED: 04/05/2022

C.R. LAURENCE CO., INC. 2503 E. VERNON AVE. LOS ANGELES, CA 90058		
PALISADES S90 THERMALLY BROKEN ALUMINUM OUTSWING FOLDING DOOR NON-IMPACT COMPONENTS		
DRAWN: A.R.	DWG NO. 08-03808	REV -
SCALE NTS	DATE 02/14/2022	SHEET 8 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