

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS	06/30/26	R.L.

- NOTES:
- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
 - 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. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
 - 4. 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.
 - 5. 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.
 - 6. 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.
 - 7. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
 - 8. 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".
 - 9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
 - 10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
 - 11. FRAME MATERIAL: EXTRUDED ALUMINUM 6063-T5.
 - 12. UNITS MUST BE GLAZED PER ASTM E1300, WITH SAFETY GLAZING.
 - 13. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

- 14. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 15. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 16. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #14 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.
- 17. ALL FASTENERS TO BE CORROSION RESISTANT.
- 18. 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 1/4" THICK MINIMUM WITH WOOD BACKING

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NANA WALL SYSTEMS, INC.
100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW ALUMINUM 640/SL64/ECOLINE INSWING
FOLDING DOOR NON-IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-03699

REV
A

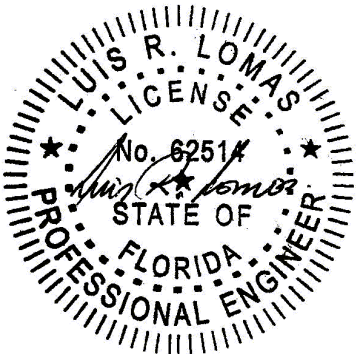
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DATE 03/15/21

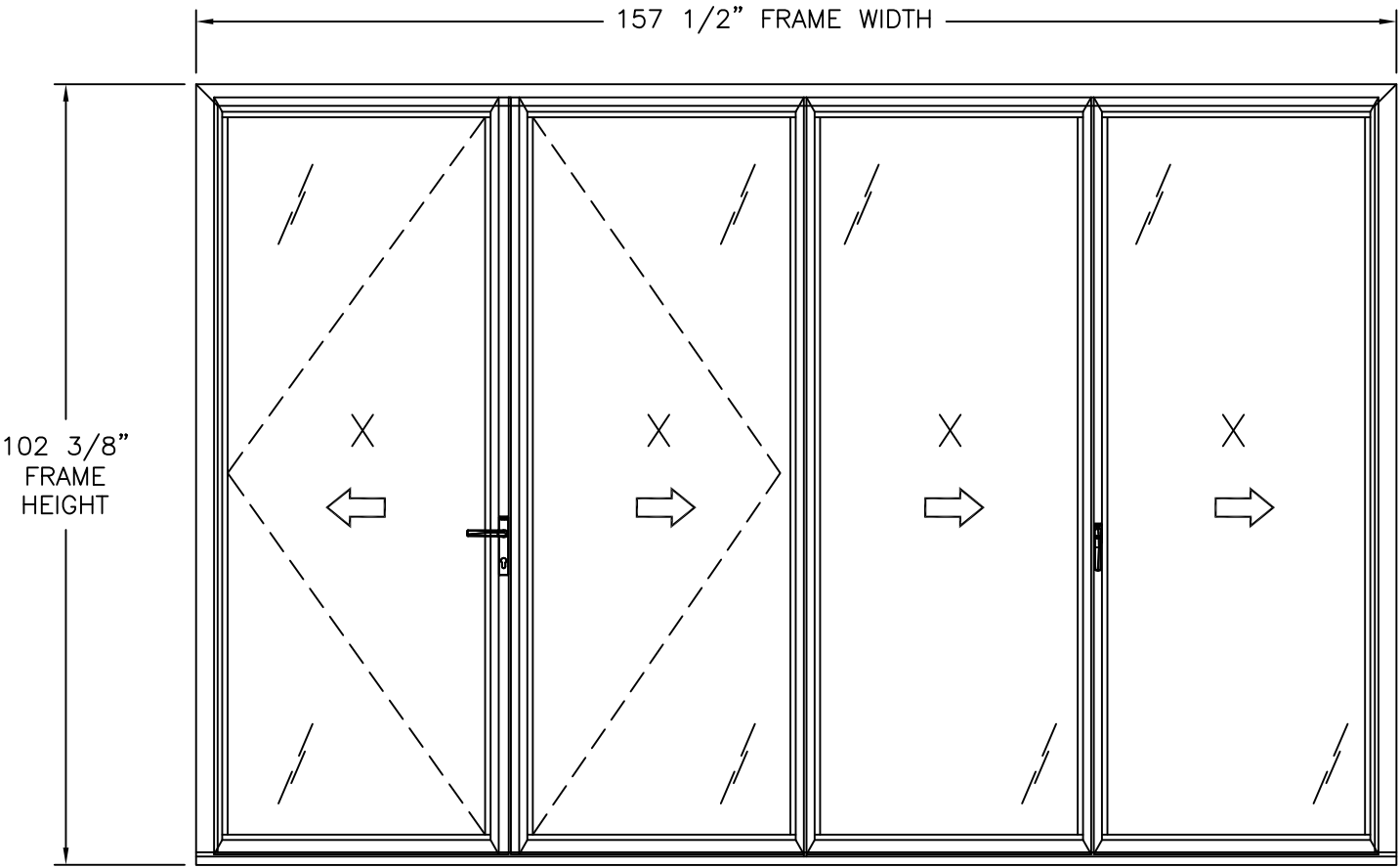
SHEET 11 OF 9

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 07/21/2026



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



SERIES NW ALUMINUM 640 FOLDING PANEL SYSTEM INSWING

INTERIOR VIEW

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS ARE APPROVED AS LONG AS
INDIVIDUAL PANEL AREA DOES NOT EXCEED 27.83 FT²

WITH SADDLE OR PERFORMANCE SILL

DESIGN PRESSURE RATING	IMPACT RATING
±25.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE AND L/175 DEFLECTION IS REQUIRED
FOR OTHER SIZES RATNGS SEE CHART #1 SHEET 3

WITH PERFORMANCE SILL

DESIGN PRESSURE RATING	IMPACT RATING
+50.0/-55.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
FOR OTHER SIZES RATINGS SEE CHART #2 SHEET 3

WITH SADDLE SILL

DESIGN PRESSURE RATING	IMPACT RATING
+35.0/-50.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
FOR OTHER SIZES RATINGS SEE CHART #3 SHEET 3

WITH SADDLE OR FLUSH SILL

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
FOR OTHER SIZES RATINGS SEE CHART #4 SHEET 3

FLUSH SILL

DESIGN PRESSURE RATING	IMPACT RATING
±25.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
AND WHERE L/175 DEFLECTION IS REQUIRED
FOR OTHER SIZES RATINGS SEE CHART #5 SHEET 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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- NOTES:
- 1. LOCKING SWING PANEL SIZE: 41 1/16" X 97 5/16"
 - 2. KEEPER FOLDING PANEL SIZE: 38 7/8" X 97 5/16"
 - 3. FOLDING PANEL SIZE: 37 11/16" X 97 5/16"
 - 4. JAMB LOCKING PANEL SIZE: 39 7/8" X 97 5/16"
 - 5. D.L.O. SIZE: 31 1/2" X 90 1/2"

SIGNED: 07/21/2026

NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW ALUMINUM 640/SL64/ECOLINE INSWING
FOLDING DOOR NON-IMPACT
ELEVATION

DRAWN:
A.R.

DWG NO.
08-03699

REV
A

SCALE
NTS

DATE
03/15/21

SHEET
2 OF 9

L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com

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

Chart #1 Design pressure rating (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		41.06		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	35.0	37.5	35.0	37.5	34.7	34.7	30.4	30.4	29.7	29.7	26.0	26.0
84.00	35.0	37.5	35.0	37.5	33.0	33.0	29.0	29.0	28.3	28.3	-	-
90.00	35.0	37.5	35.0	35.0	30.4	30.4	27.0	27.0	26.4	26.4	-	-
96.00	35.0	37.5	32.4	32.4	28.1	28.1	25.3	25.3	-	-	-	-
97.31	35.0	37.5	31.9	31.9	27.6	27.6	25.0	25.0	-	-	-	-
102.00	35.0	35.3	28.6	28.6	24.2	24.2	-	-	-	-	-	-
108.00	29.7	29.7	24.0	24.0	20.3	20.3	-	-	-	-	-	-
114.00	25.2	25.2	20.4	20.4	-	-	-	-	-	-	-	-
120.00	21.6	21.6	17.4	17.4	-	-	-	-	-	-	-	-
126.00	18.6	18.6	-	-	-	-	-	-	-	-	-	-
132.00	16.2	16.2	-	-	-	-	-	-	-	-	-	-

WITH SADDLE OR PERFORMANCE SILL
WHERE WATER PENETRATION RESISTANCE AND L/175 DEFLECTION IS REQUIRED

Chart #4 Design pressure rating (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		41.06		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	75.0	75.0	75.0	75.0	69.4	69.4	60.8	60.8	59.5	59.5	52.0	52.0
84.00	75.0	75.0	75.0	75.0	66.1	66.1	57.9	57.9	56.6	56.6	-	-
90.00	75.0	75.0	70.1	70.1	60.8	60.8	54.1	54.1	52.9	52.9	-	-
96.00	75.0	75.0	64.9	64.9	56.1	56.1	50.7	50.7	-	-	-	-
97.31	75.0	75.0	63.8	63.8	55.2	55.2	50.0	50.0	-	-	-	-
102.00	70.6	70.6	57.2	57.2	48.4	48.4	-	-	-	-	-	-
108.00	59.4	59.4	48.0	48.0	40.6	40.6	-	-	-	-	-	-
114.00	50.4	50.4	40.7	40.7	-	-	-	-	-	-	-	-
120.00	43.1	43.1	34.8	34.8	-	-	-	-	-	-	-	-
126.00	37.2	37.2	30.0	30.0	-	-	-	-	-	-	-	-
132.00	32.3	32.3	26.0	26.0	-	-	-	-	-	-	-	-
138.00	28.2	28.2	-	-	-	-	-	-	-	-	-	-
144.00	24.8	24.8	-	-	-	-	-	-	-	-	-	-

WITH SADDLE OR FLUSH SILL
WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED

Chart #2 Design pressure rating (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		41.06		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	62.7	82.5	62.7	82.5	62.7	76.3	60.8	66.9	59.5	65.4	52.0	57.2
84.00	62.7	82.5	62.7	82.5	62.7	72.7	57.9	63.7	56.6	62.3	-	-
90.00	62.7	82.5	62.7	77.1	60.8	66.9	54.1	59.5	52.9	58.1	-	-
96.00	62.7	82.5	62.7	71.4	56.1	61.8	50.7	55.8	-	-	-	-
97.31	62.7	82.5	62.7	70.2	55.2	60.7	50.0	55.0	-	-	-	-
102.00	62.7	77.7	57.2	63.0	48.4	53.3	-	-	-	-	-	-
108.00	59.4	65.3	48.0	52.8	40.6	44.6	-	-	-	-	-	-
114.00	50.4	55.4	40.7	44.8	-	-	-	-	-	-	-	-
120.00	43.1	47.4	34.8	38.3	-	-	-	-	-	-	-	-
126.00	37.2	40.9	30.0	33.0	-	-	-	-	-	-	-	-
132.00	32.3	35.5	26.0	28.6	-	-	-	-	-	-	-	-
138.00	28.2	31.1	-	-	-	-	-	-	-	-	-	-
144.00	24.8	27.3	-	-	-	-	-	-	-	-	-	-

REQUIRED

Chart #5 Design pressure rating (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		41.06		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	48.3	48.3	40.4	40.4	34.7	34.7	30.4	30.4	29.7	29.7	26.0	26.0
84.00	45.6	45.6	38.1	38.1	33.0	33.0	29.0	29.0	28.3	28.3	-	-
90.00	42.1	42.1	35.0	35.0	30.4	30.4	27.0	27.0	26.4	26.4	-	-
96.00	39.1	39.1	32.4	32.4	28.1	28.1	25.3	25.3	-	-	-	-
97.31	38.5	38.5	31.9	31.9	27.6	27.6	25.0	25.0	-	-	-	-
102.00	35.3	35.3	28.6	28.6	24.2	24.2	-	-	-	-	-	-
108.00	29.7	29.7	24.0	24.0	20.3	20.3	-	-	-	-	-	-
114.00	25.2	25.2	20.4	20.4	-	-	-	-	-	-	-	-
120.00	21.6	21.6	17.4	17.4	-	-	-	-	-	-	-	-
126.00	18.6	18.6	-	-	-	-	-	-	-	-	-	-
132.00	16.2	16.2	-	-	-	-	-	-	-	-	-	-

WITH FLUSH SILL WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
AND L/175 DEFLECTION IS REQUIRED

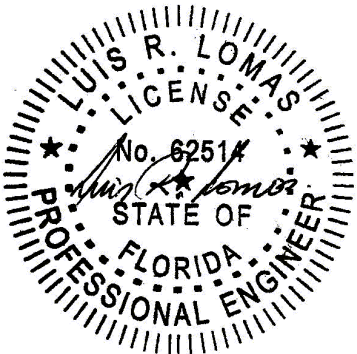
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Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		41.06		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	35.0	75.0	35.0	75.0	35.0	69.4	35.0	60.8	35.0	59.5	35.0	52.0
84.00	35.0	75.0	35.0	75.0	35.0	66.1	35.0	57.9	35.0	56.6	-	-
90.00	35.0	75.0	35.0	70.1	35.0	60.8	35.0	54.1	35.0	52.9	-	-
96.00	35.0	75.0	35.0	64.9	35.0	56.1	35.0	50.7	-	-	-	-
97.31	35.0	75.0	35.0	63.8	35.0	55.2	35.0	50.0	-	-	-	-
102.00	35.0	70.6	35.0	57.2	35.0	48.4	-	-	-	-	-	-
108.00	35.0	59.4	35.0	48.0	35.0	40.6	-	-	-	-	-	-
114.00	35.0	50.4	35.0	40.7	-	-	-	-	-	-	-	-
120.00	35.0	43.1	34.8	34.8	-	-	-	-	-	-	-	-
126.00	35.0	37.2	30.0	30.0	-	-	-	-	-	-	-	-
132.00	32.3	32.3	26.0	26.0	-	-	-	-	-	-	-	-
138.00	28.2	28.2	-	-	-	-	-	-	-	-	-	-
144.00	24.8	24.8	-	-	-	-	-	-	-	-	-	-

WITH SADDLE SILL WHERE WATER PENETRATION RESISTANCE IS REQUIRED

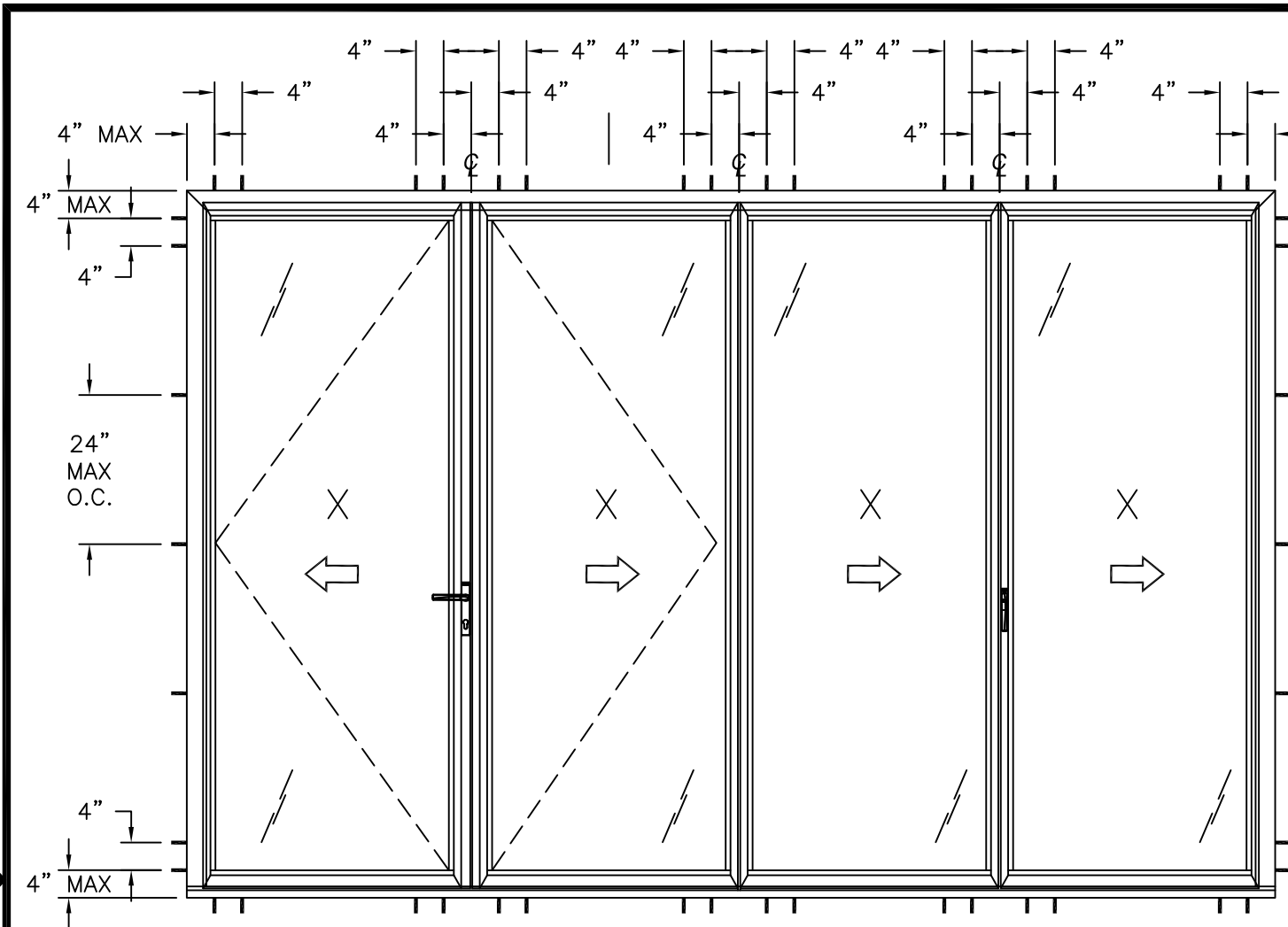
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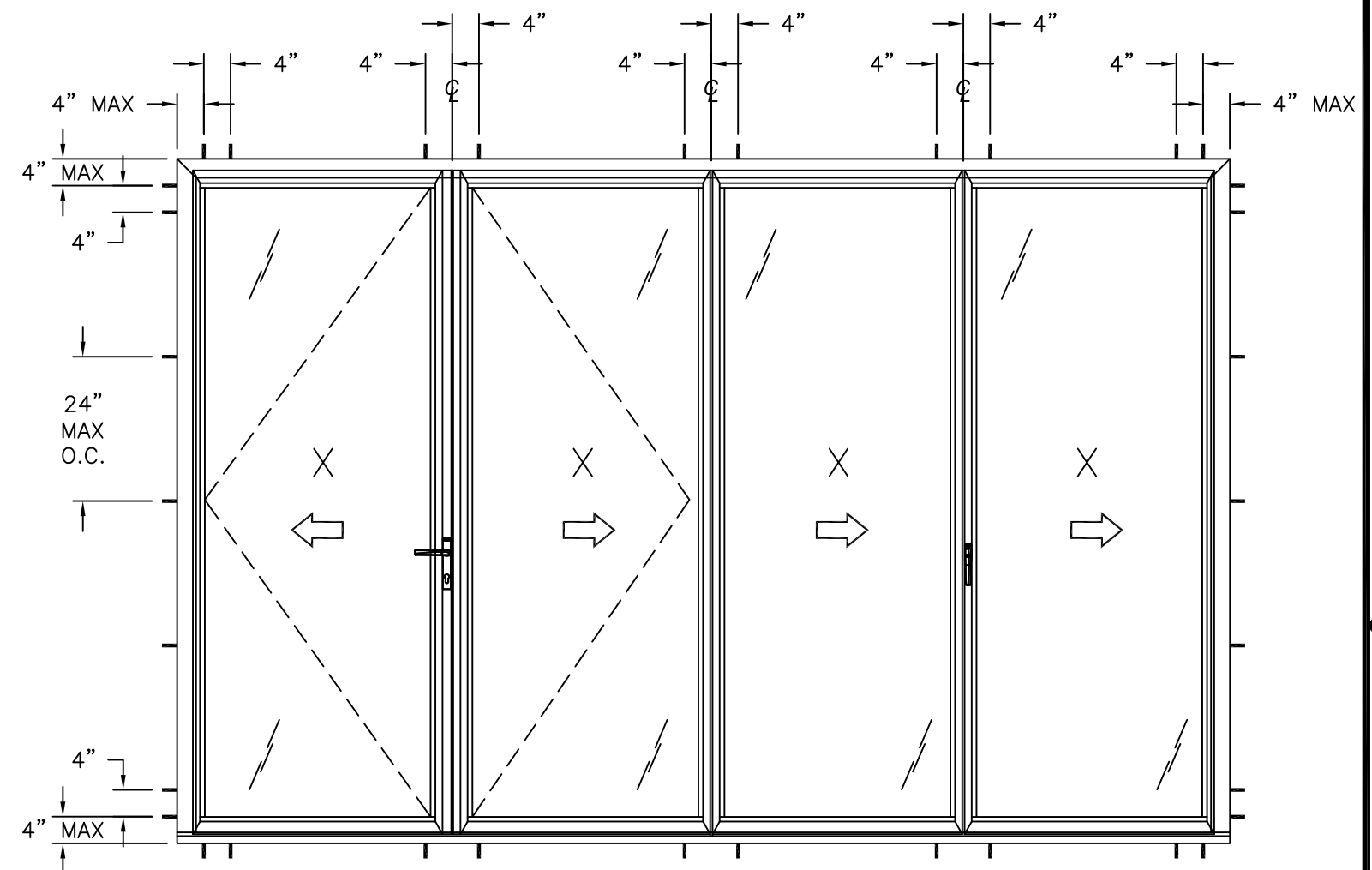
NANA WALL SYSTEMS, INC. 100 MEADOWCREEK DRIVE, SUITE 250 CORTE MADERA, CA 94925		
SERIES NW ALUMINUM 640/SL64/ECOLINE INSWING FOLDING DOOR NON-IMPACT DESIGN PRESSURE CHARTS		
DRAWN: A.R.	DWG NO. 08-03699	REV A
SCALE NTS	DATE 03/15/21	SHEET 3 OF 9
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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



ANCHORING LAYOUT FOR SYSTEMS RATED HIGHER THAN 40PSF



ANCHORING LAYOUT FOR SYSTEMS RATED 40PSF OR LESS

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NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250

CORTE MADERA, CA 94925

SERIES NW ALUMINUM 640/SL64/ECOLINE INSWING

FOLDING DOOR NON-IMPACT

ANCHORING LAYOUTS

DRAWN: A.R.

DWG NO. 08-03699

REV A

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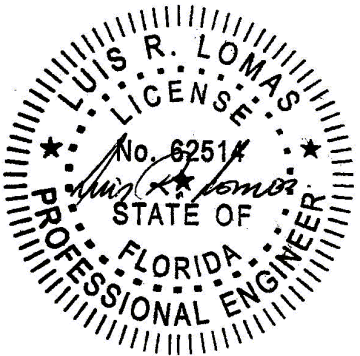
DATE 03/15/21

SHEET 2 OF 9

L. ROBERTO LOMAS P.E.

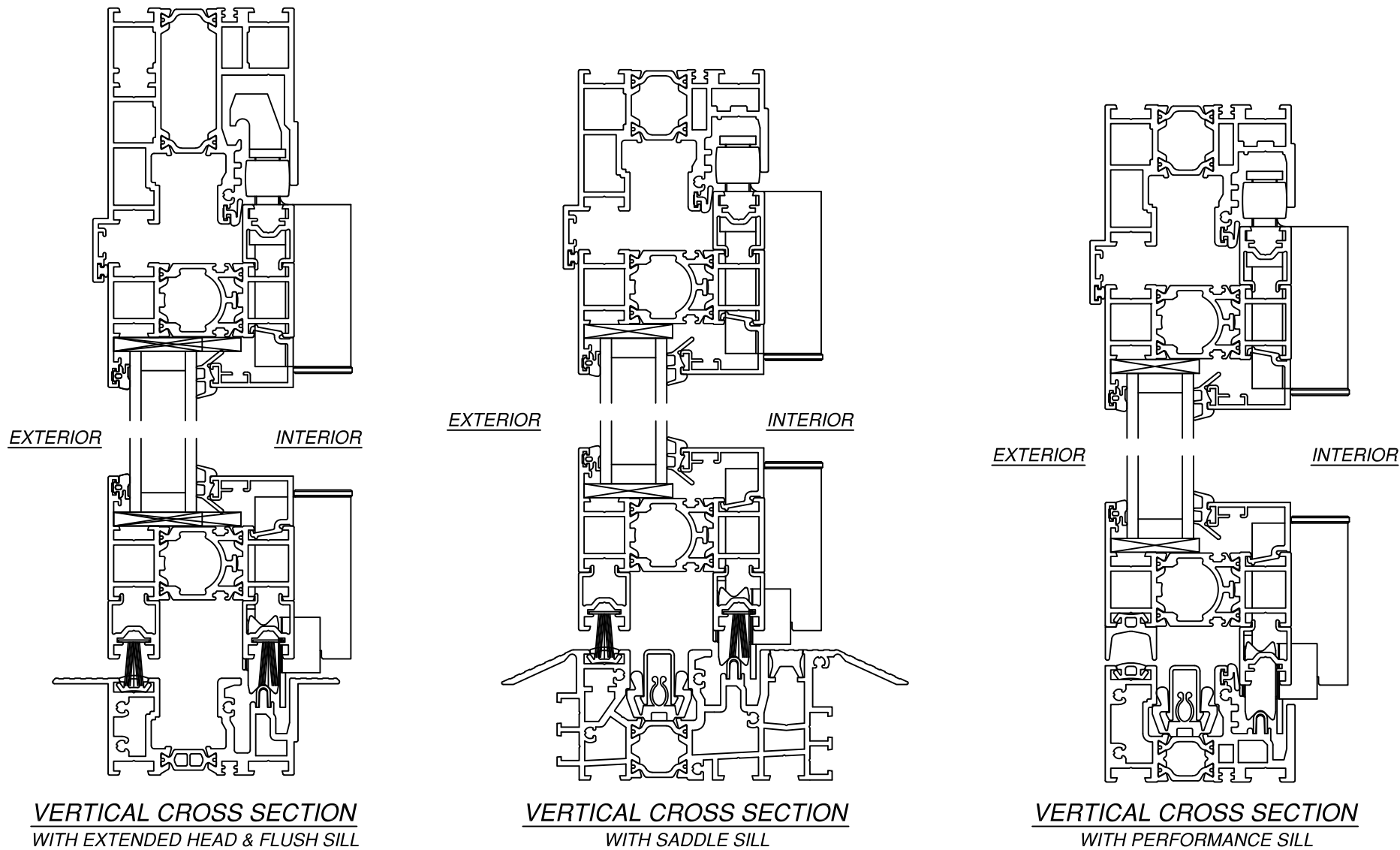
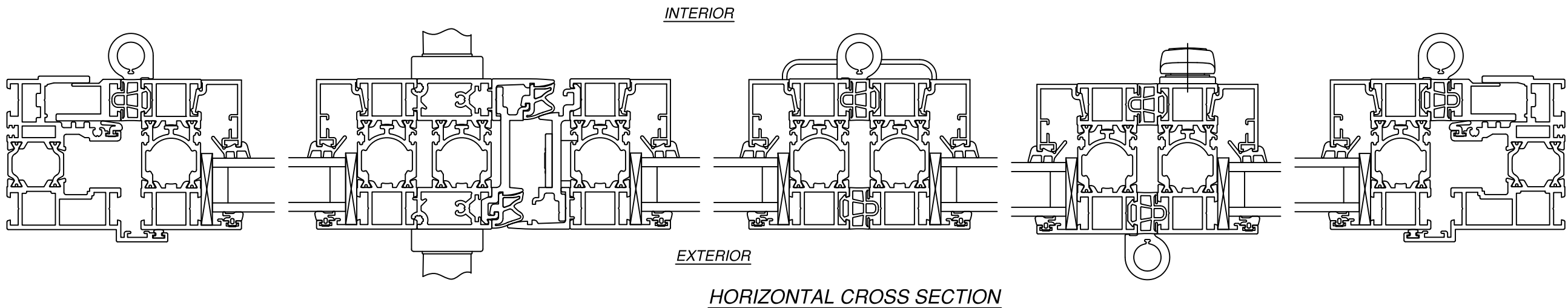
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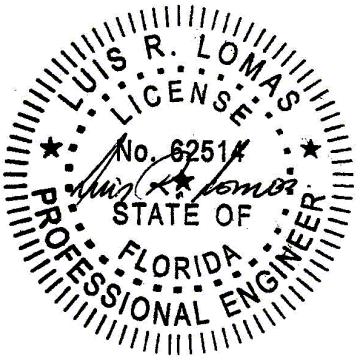
NANA WALL SYSTEMS, INC.
100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW ALUMINUM 640/SL64/ECOLINE INSWING
FOLDING DOOR NON-IMPACT
CROSS SECTION

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SCALE NTS	DATE 03/15/21	SHEET 4 OF 9

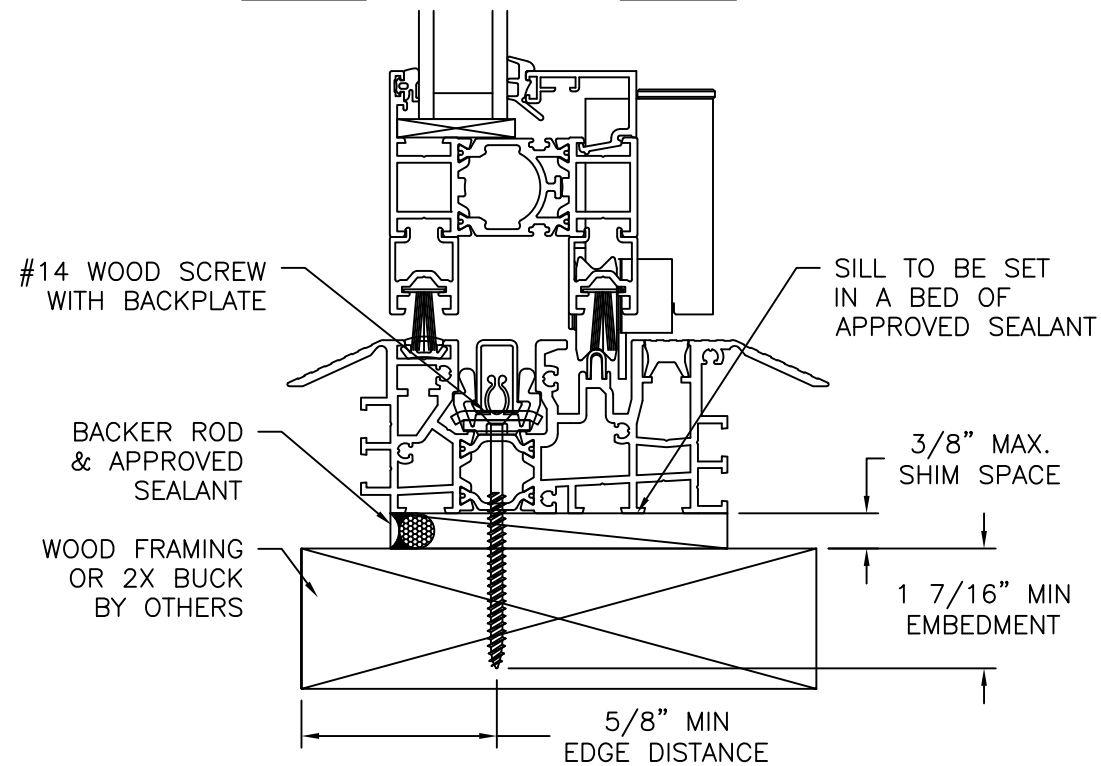
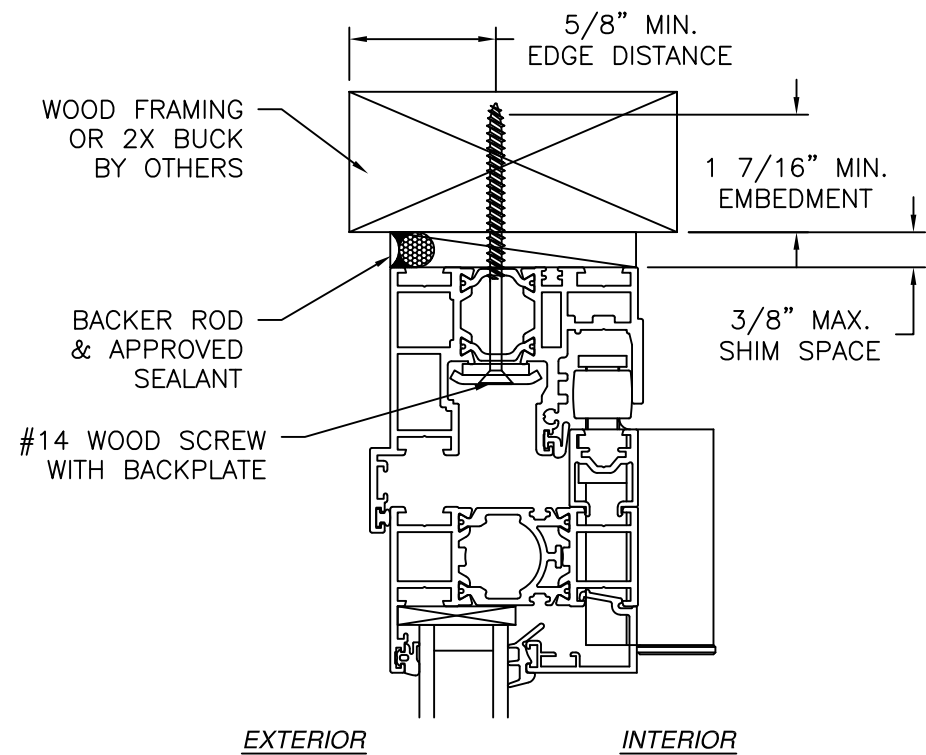
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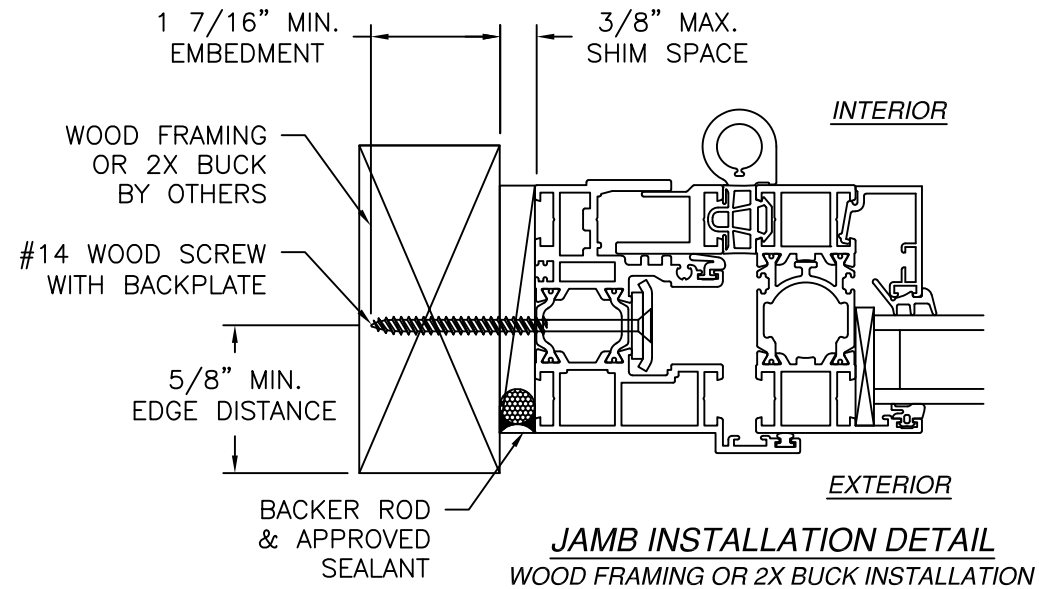


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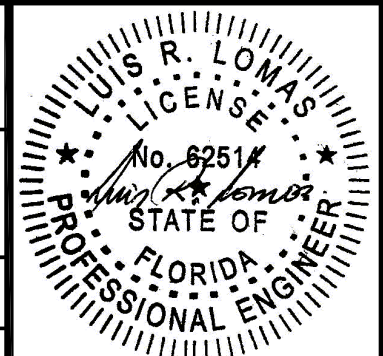
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION
SADDLE SILL SHOWN, OTHER SILLS SIMILAR



- 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 AND ARE NOT SHOWN FOR CLARITY

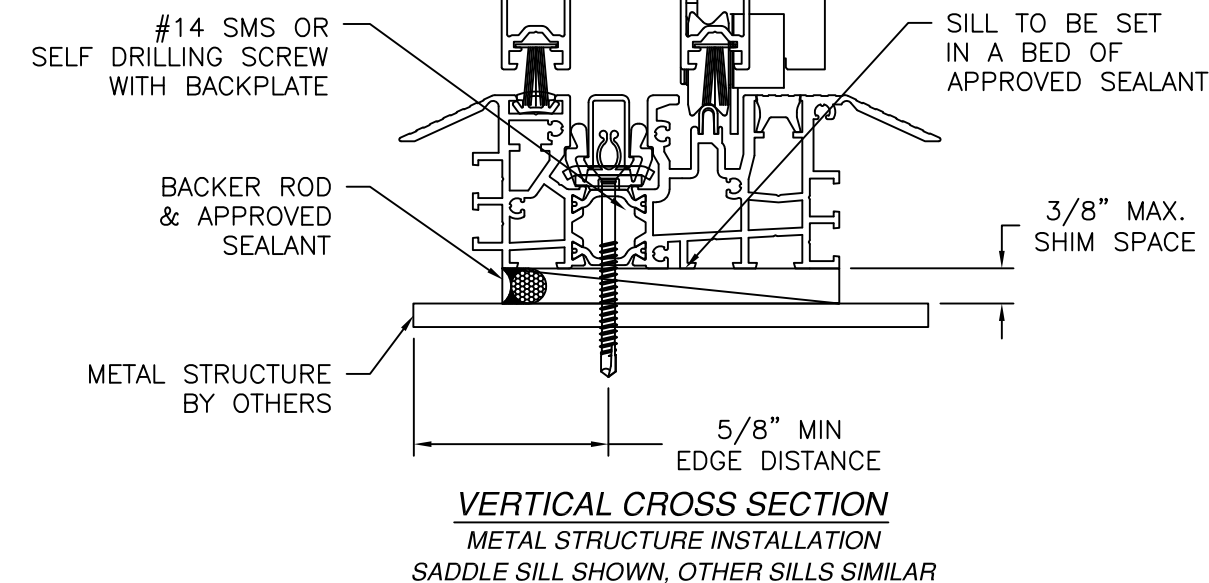
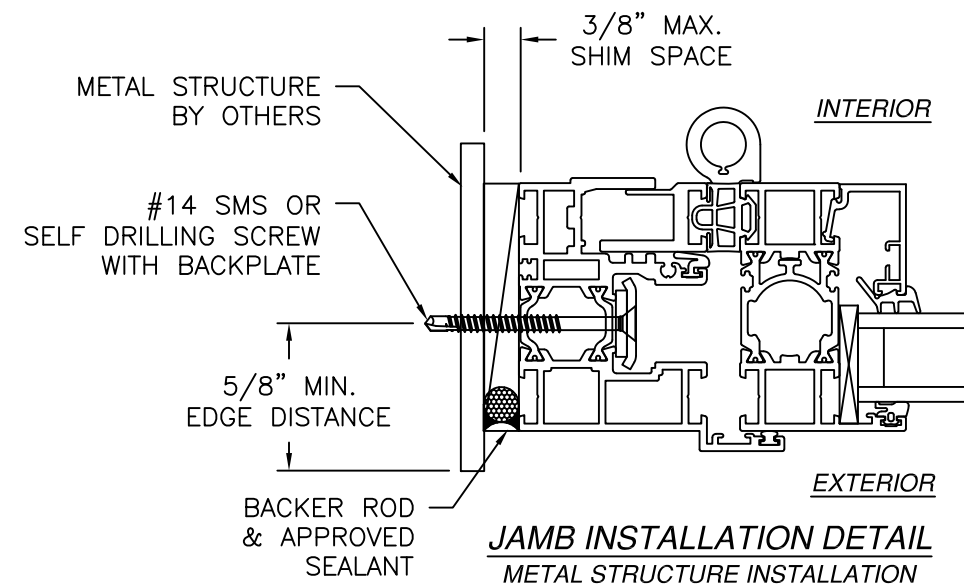
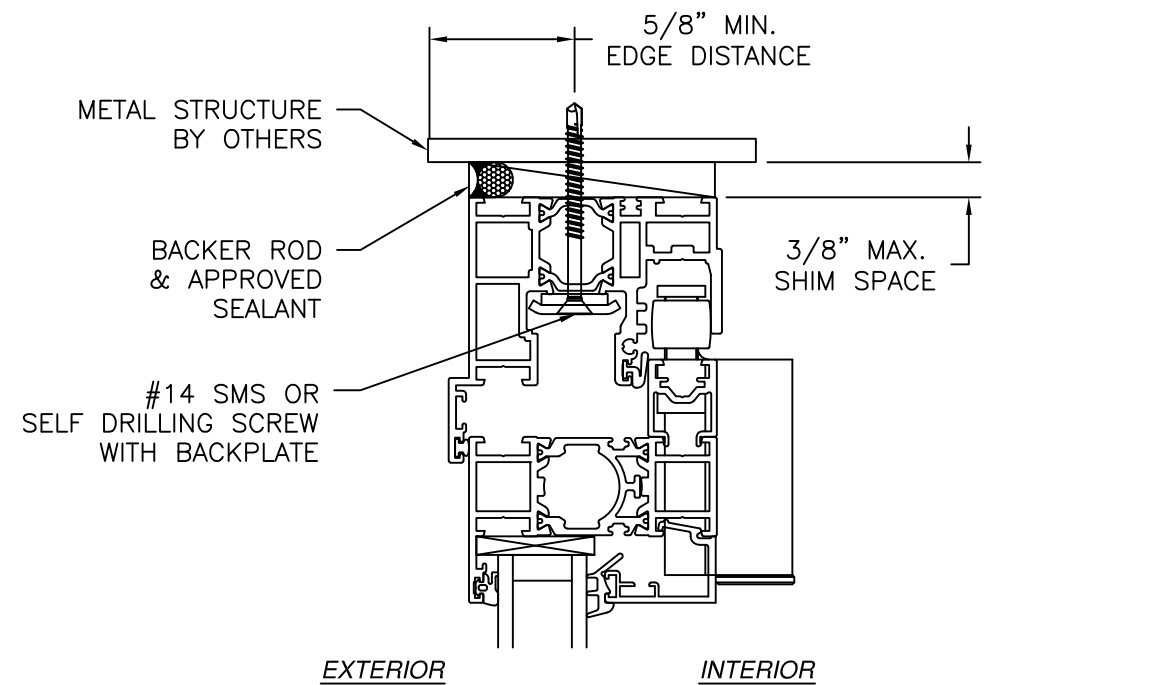
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SERIES NW ALUMINUM 640/SL64/ECOLINE INSWING FOLDING DOOR NON-IMPACT INSTALLATION DETAILS		
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SERIES NW ALUMINUM 640/SL64/ECOLINE INSWING
FOLDING DOOR NON-IMPACT
INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
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REV
A

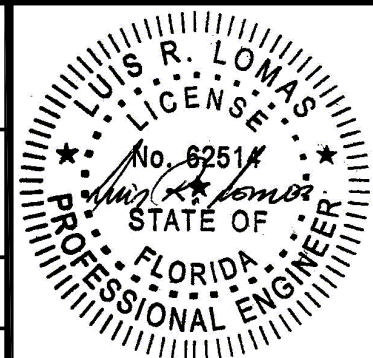
SCALE
NTS

DATE
03/15/21

SHEET
6 OF 9

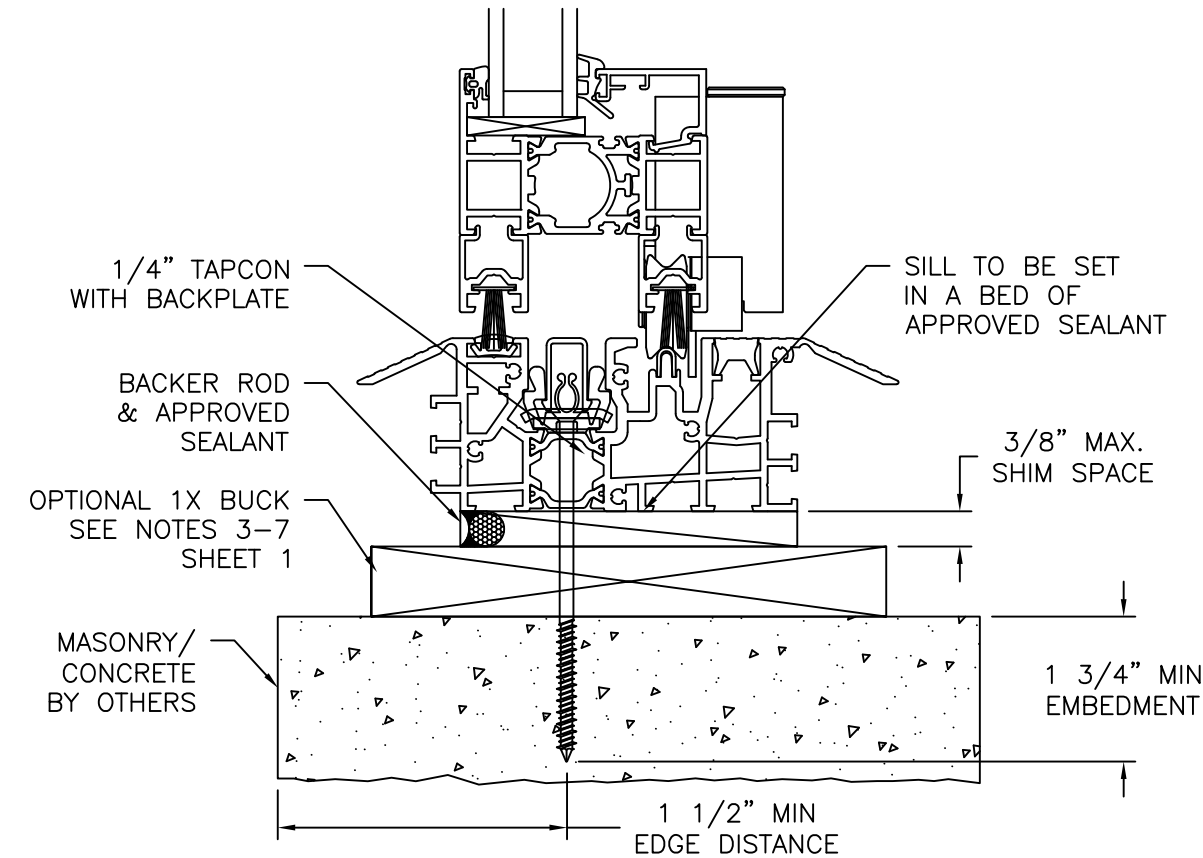
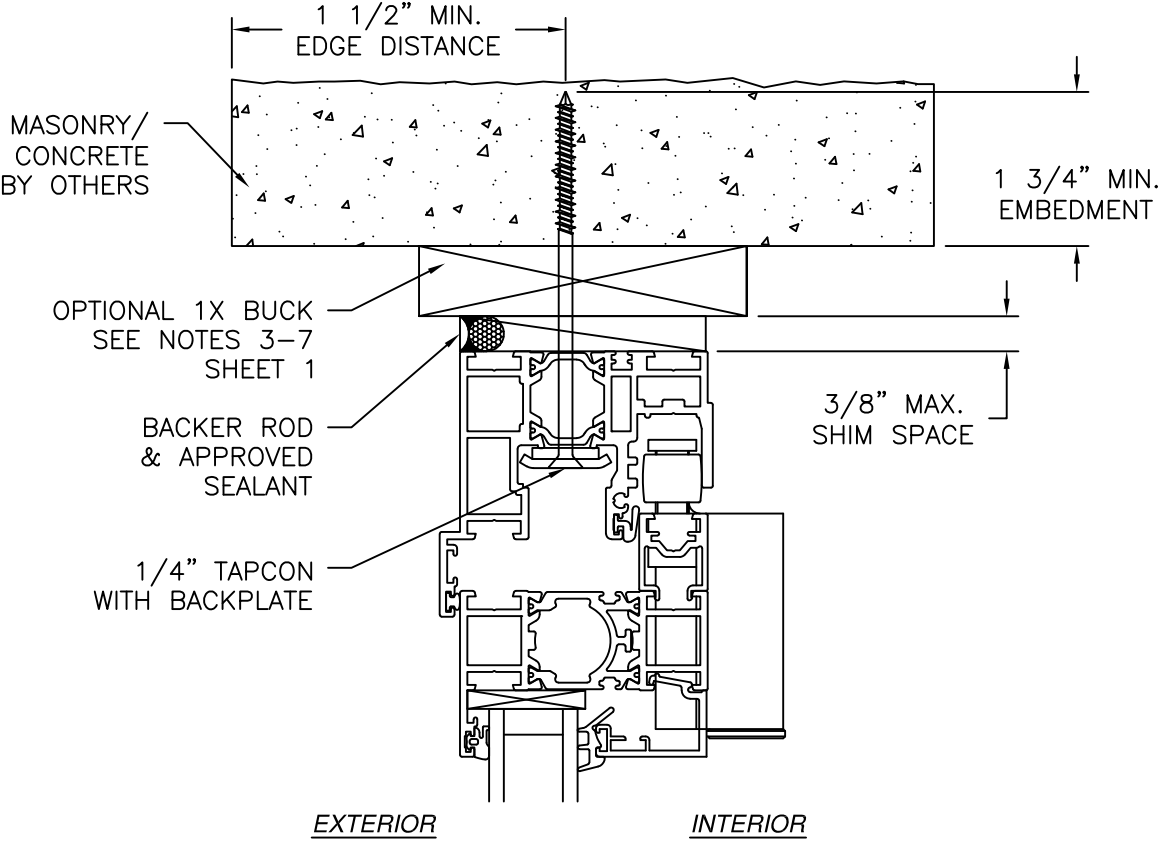
L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

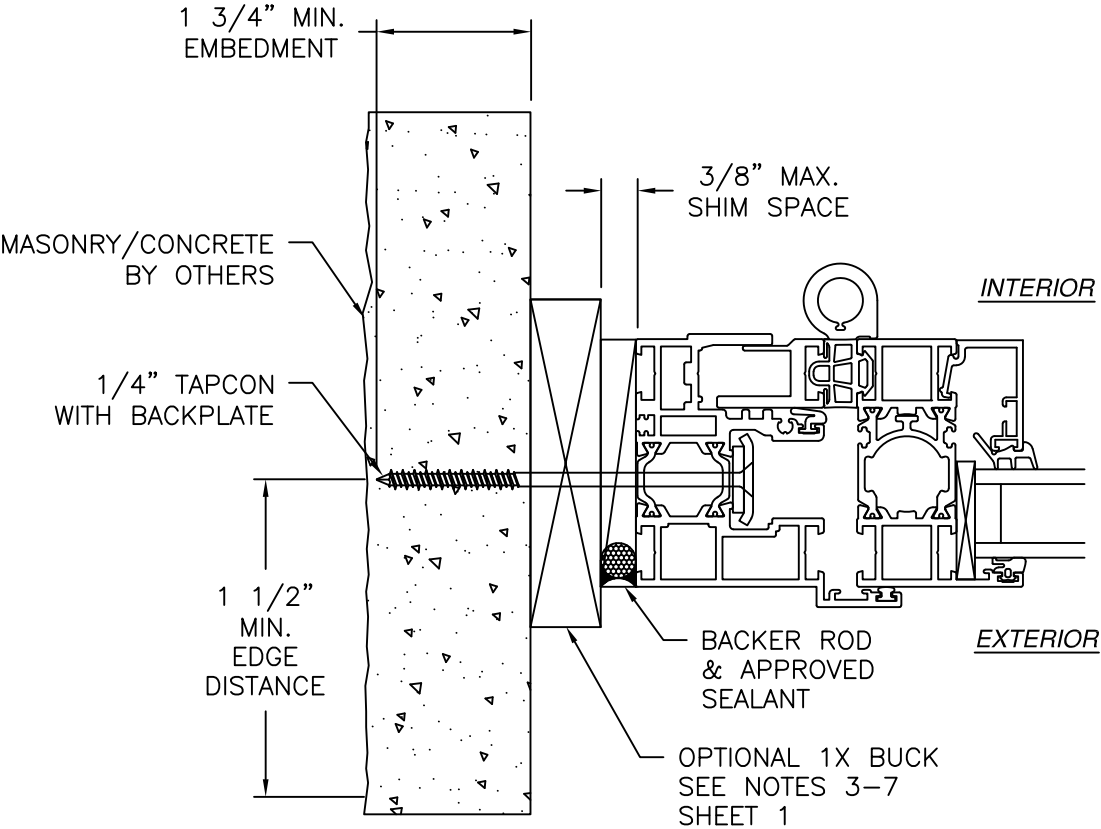


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS	06/30/26	R.L.



VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION
SADDLE SILL SHOWN, OTHER SILLS SIMILAR



JAMB INSTALLATION DETAIL
MASONRY/CONCRETE 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 AND ARE NOT SHOWN FOR CLARITY

SIGNED: 07/21/2026

NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW ALUMINUM 640/SL64/ECOLINE INSWING
FOLDING DOOR NON-IMPACT
INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03699

REV A

SCALE NTS

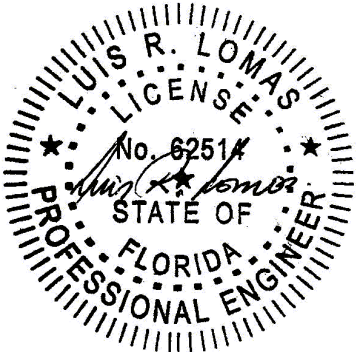
DATE 03/15/21

SHEET 8 OF 9

L. ROBERTO LOMAS P.E.

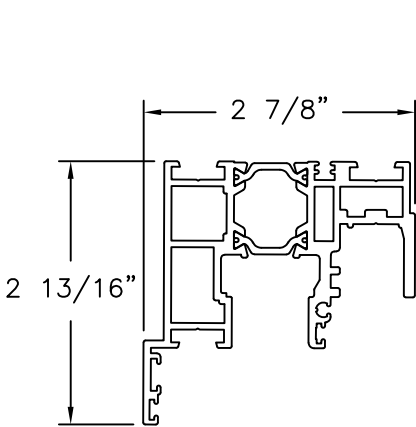
208 7th Ave, INDIALANTIC, FL 32903

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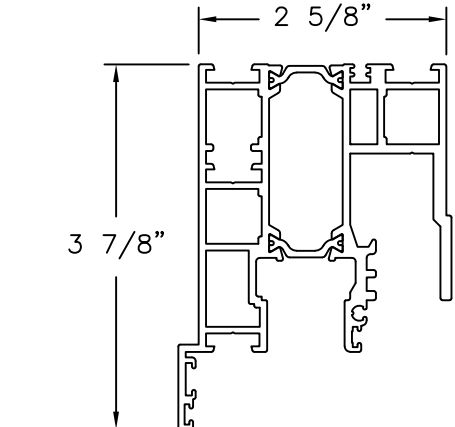


Luis R. Lomas P.E.
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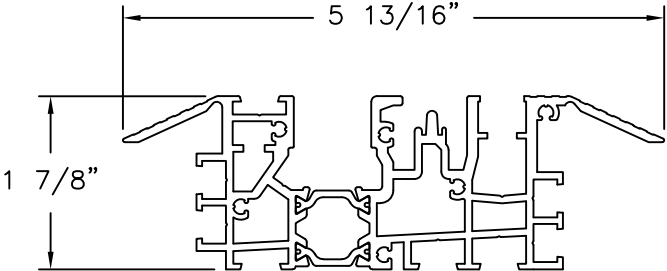
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS	06/30/26	R.L.



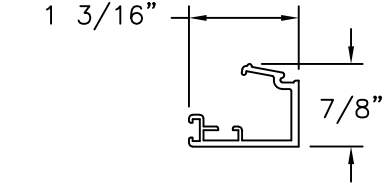
HEAD & JAMB PROFILE (5-310-04)
ALUMINUM 6063-T5



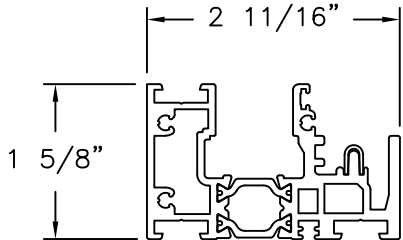
EXTENDED HEAD PROFILE (5-310-04)
ALUMINUM 6063-T5



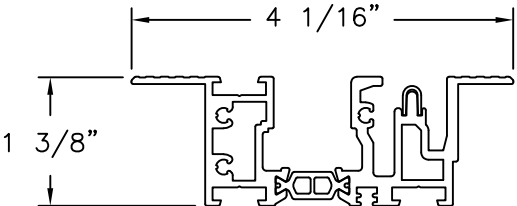
LOW PROFILE SADDLE SILL (5-310-39)
ALUMINUM 6063-T5



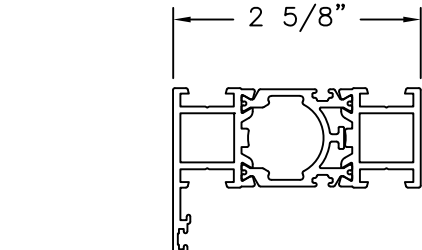
GLAZING BEAD (5-80-71)
ALUMINUM 6063-T5
BEAD SHOWN AS REFERENCE ONLY.
BEAD SIZES VARIES DEPENDING ON
GLASS THICKNESS. GLASS THICKNESS
VARIES FROM 3/16" TO 1 3/4"



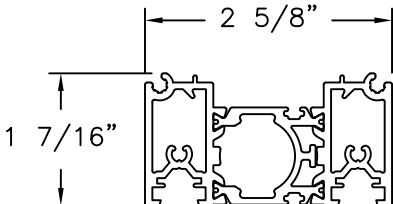
PERFORMANCE SILL
ALUMINUM 6063-T5



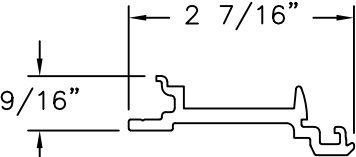
FLUSH SILL
ALUMINUM 6063-T5



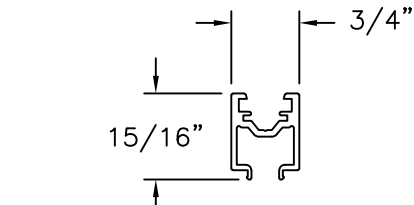
INSWING PANEL PROFILE (5-310-01)
ALUMINUM 6063-T5



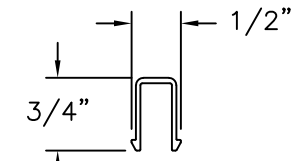
**NARROW CONNECTION
PROFILE (5-310-30)**
ALUMINUM 6063-T5



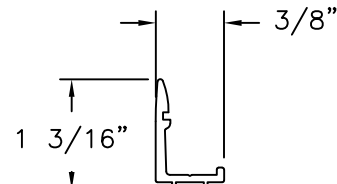
**CONNECTION STRIP
PROFILE (5-310-27)**
POLYAMIDE



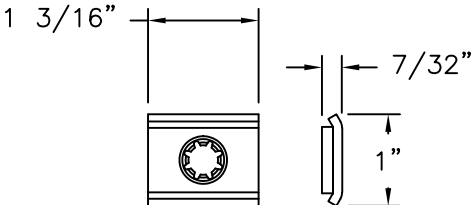
EXTENSION PROFILE (5-300-04)
ALUMINUM 6063-T5



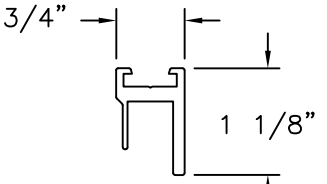
**SILL INSERT
PROFILE (5-310-26)**
ALUMINUM 6063-T5



BAR PROFILE (5-300-30)
ALUMINUM 6063-T5



BACK PLATE (15-310-40)
STEEL



**ADJUSTABLE JAMB
PROFILE (5-300-01)**
ALUMINUM 6063-T5

SIGNED: 07/21/2026

NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW ALUMINUM 640/SL64/ECOLINE INSWING
FOLDING DOOR NON-IMPACT
COMPONENTS

DRAWN:
A.R.

DWG NO.
08-03699

REV
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8 OF 9

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