

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 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 #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.

14. 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.
15. 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.
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 1/4" THICK MINIMUM WITH WOOD BACKING

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION
3	ANCHORING LAYOUTS
4 – 5	DESIGN PRESSURE CHARTS
6	HORIZONTAL CROSS SECTION
7 – 10	INSTALLATION DETAILS
11	COMPONENTS

NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW REINFORCED 647/SL64/ECOLINE
OUTSWING FOLDING DOOR NON-IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-03771

REV
-

SCALE NTS

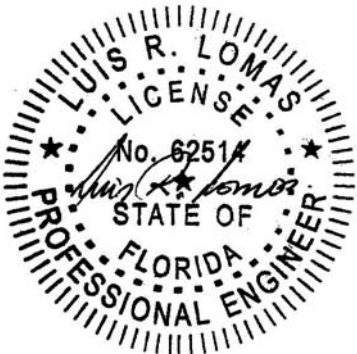
DATE 11/24/2021

SHEET 1 OF 11

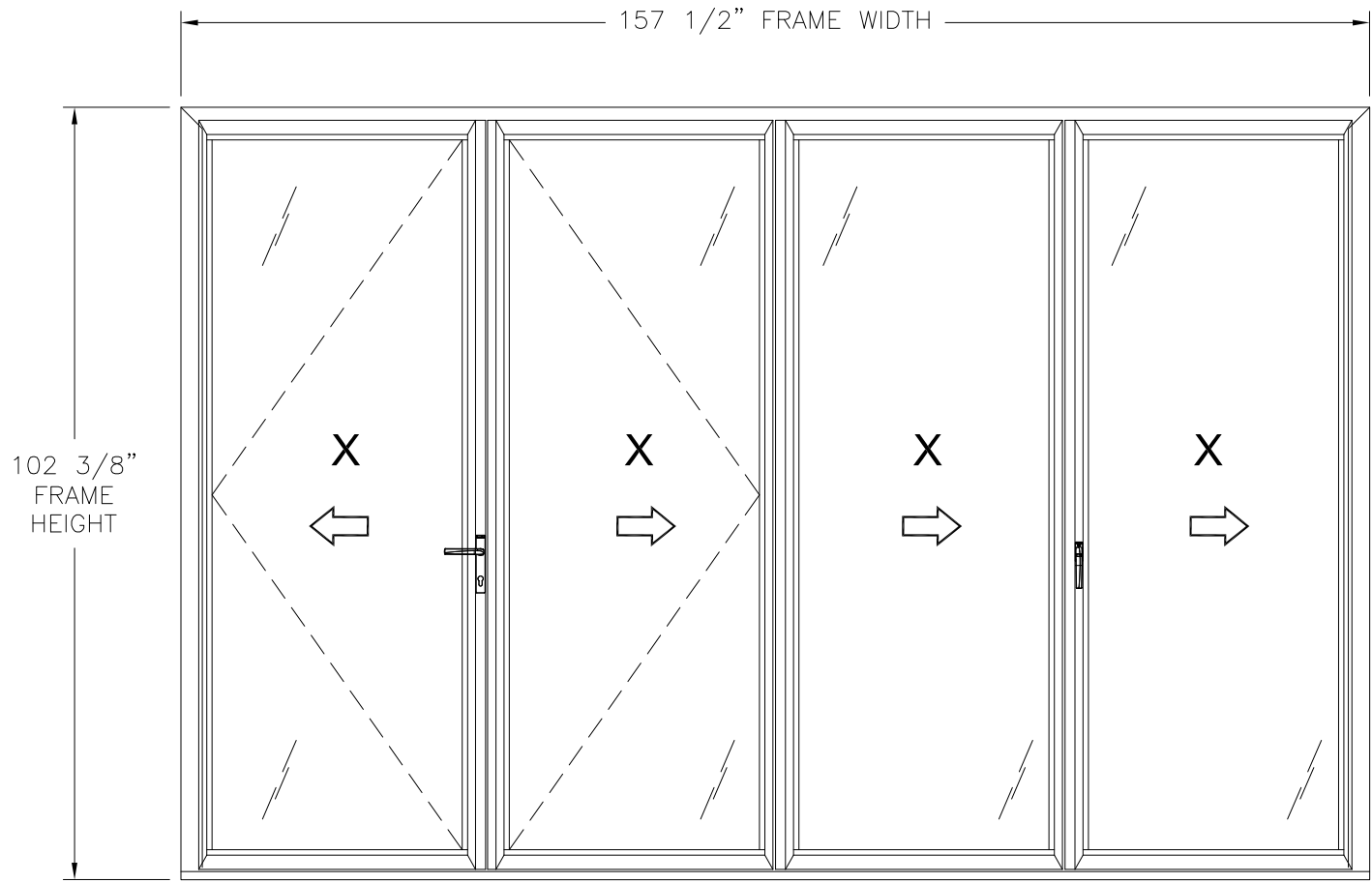
L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 03/07/2022



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



SERIES NW REINFORCED 647 FOLDING PANEL SYSTEM OUTSWING

INTERIOR VIEW
FRAME INSTALLATION

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS ARE APPROVED
FOR PANEL SIZES REFER TO CHARTS IN SHEET 4 AND 5

HYBRID SILL WITH STANDARD WEEPS OR IMPROVED WEEP SYSTEM

DESIGN PRESSURE RATING	IMPACT RATING
±35.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE AND L/175 DEFLECTION ARE REQUIRED
FOR ADDITIONAL SIZES SEE CHART #1, SHEET 4

HYBRID SILL WITH STANDARD WEEPS

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-70.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
FOR ADDITIONAL SIZES SEE CHART #2, SHEET 4

HYBRID SILL WITH IMPROVED WEEP SYSTEM

DESIGN PRESSURE RATING	IMPACT RATING
±70.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
FOR ADDITIONAL SIZES SEE CHART #3, SHEET 4

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HYBRID SILL

DESIGN PRESSURE RATING	IMPACT RATING
±70.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
FOR ADDITIONAL SIZES SEE CHART #4, SHEET 4

SADDLE SILL WITH OPEN WEEPS

DESIGN PRESSURE RATING	IMPACT RATING
±35.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS REQUIRED AND L/175 DEFLECTION ARE REQUIRED
FOR ADDITIONAL SIZES SEE CHART #5, SHEET 4

SADDLE SILL WITH UNIVERSILL

DESIGN PRESSURE RATING	IMPACT RATING
±35.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE AND L/175 DEFLECTION ARE REQUIRED
FOR ADDITIONAL SIZES SEE CHART #6, SHEET 5

SADDLE SILL WITH OPEN WEEPS

DESIGN PRESSURE RATING	IMPACT RATING
+35.0/-70.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
FOR ADDITIONAL SIZES SEE CHART #7, SHEET 5

SADDLE SILL WITH UNIVERSILL

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-70.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
FOR ADDITIONAL SIZES SEE CHART #8, SHEET 5

SADDLE SILL OR FLUSH SILL

DESIGN PRESSURE RATING	IMPACT RATING
±70.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
FOR ADDITIONAL SIZES SEE CHART #9, SHEET 5

NOTES:

1. LOCKING SWING PANEL SIZE: 41 1/16" X 96 7/8"
2. KEEPER FOLDING PANEL SIZE: 38 7/8" X 96 7/8"
3. FOLDING PANEL SIZE: 37 11/16" X 96 7/8"
4. JAMB LOCKING PANEL SIZE: 39 7/8" X 96 7/8"
5. LOCKING SWING & KEEPER FOLDING PANELS D.L.O. SIZE: 31 1/2" X 90 1/2"
6. FOLDING AND JAMB LOCKING PANELS D.L.O.: 30 5/32" X 90 1/2"

SIGNED: 03/07/2022

NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW REINFORCED 647/SL64/ECOLINE
OUTSWING FOLDING DOOR NON-IMPACT
ELEVATION

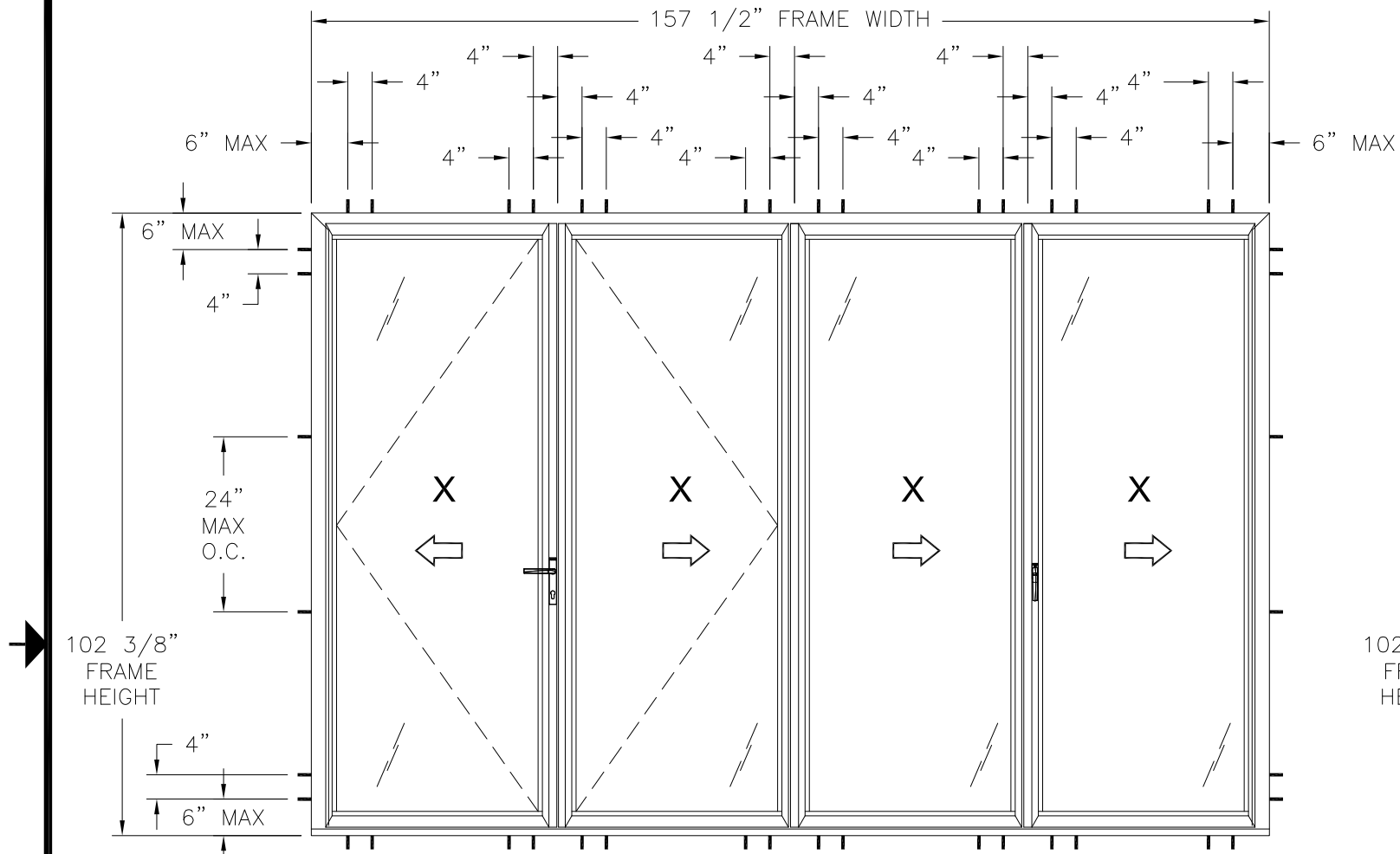
DRAWN: A.R.	DWG NO. 08-03771	REV —
SCALE NTS	DATE 11/24/2021	SHEET 2 OF 11

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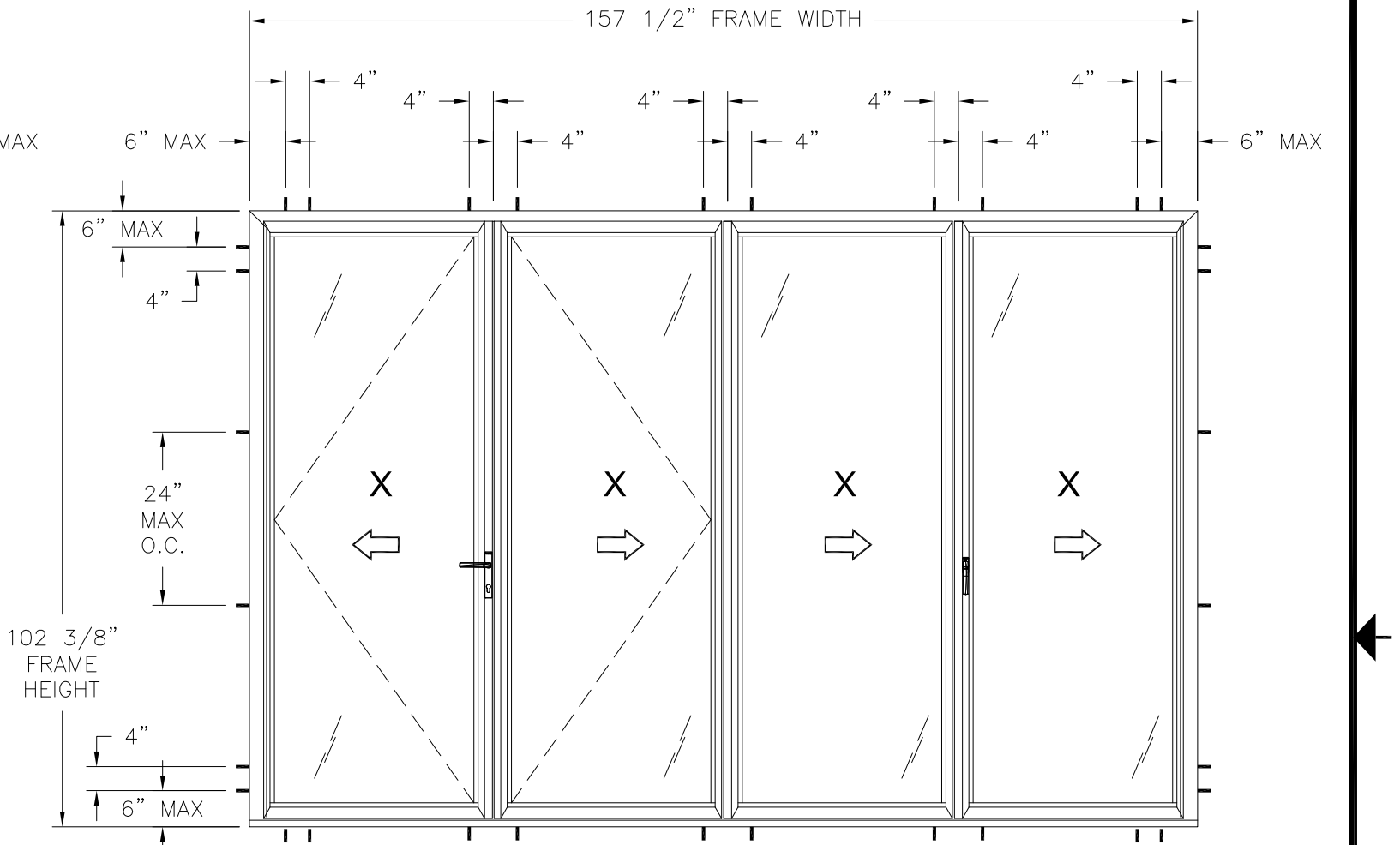


Luis R. Lomas P.E.
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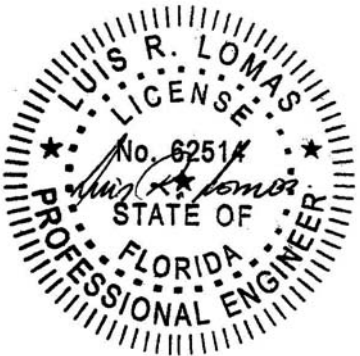
SERIES NW REINFORCED 647 FOLDING PANEL SYSTEM OUTSWING
ANCHORING LAYOUT FOR UNITS RATED HIGHER THAN 40PSF



SERIES NW REINFORCED 647 FOLDING PANEL SYSTEM OUTSWING
ANCHORING LAYOUT FOR UNITS RATED LOWER THAN 40PSF

SIGNED: 03/07/2022

NANA WALL SYSTEMS, INC. 100 MEADOWCREEK DRIVE, SUITE 250 CORTE MADERA, CA 94925		
SERIES NW REINFORCED 647/SL64/ECOLINE OUTSWING FOLDING DOOR NON-IMPACT ANCHORING LAYOUTS		
DRAWN: A.R.	DWG NO. 08-03771	REV -
SCALE NTS	DATE 11/24/2021	SHEET 3 OF 11
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Luis R. Lomas P.E.
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Chart #1

Maximum Design pressure (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	52.50	52.50	52.50	52.50	48.34	48.34	42.38	42.38	41.44	41.44	36.26	36.26
84.00	52.50	52.50	52.50	52.50	46.04	46.04	40.36	40.36	39.46	39.46	34.53	34.53
90.00	52.50	52.50	48.76	48.76	42.33	42.33	37.67	37.67	36.83	36.83	32.23	32.23
96.00	52.50	52.50	45.15	45.15	39.07	39.07	35.32	35.32	34.53	34.53	30.21	30.21
96.88	52.50	52.50	44.67	44.67	38.64	38.64	35.00	35.00	34.22	34.22	29.94	29.94
102.00	48.76	48.76	39.50	39.50	33.43	33.43	29.77	29.77	29.19	29.19	26.10	26.10
108.00	40.97	40.97	33.15	33.15	28.01	28.01	24.90	24.90	24.41	24.41	21.77	21.77
114.00	34.77	34.77	28.10	28.10	23.71	23.71	21.04	21.04	20.62	20.62	18.36	18.36
120.00	29.76	29.76	24.02	24.02	20.24	20.24	17.95	17.95	17.58	17.58	15.63	15.63
126.00	25.67	25.67	20.70	20.70	17.43	17.43	15.43	15.43	15.12	15.12	-	-
132.00	22.29	22.29	17.97	17.97	15.11	15.11	-	-	-	-	-	-

HYBRID SILL WITH STANDARD WEEPS OR IMPROVED WEEP SYSTEM WHERE WATER PENETRATION RESISTANCE AND L/175 DEFLECTION ARE REQUIRED

Chart #3

Maximum Design pressure (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	100.00	105.00	100.00	105.00	96.69	96.69	84.77	84.77	82.87	82.87	72.51	72.51
84.00	100.00	105.00	100.00	105.00	92.08	92.08	80.73	80.73	78.93	78.93	69.06	69.06
90.00	100.00	105.00	97.53	97.53	84.66	84.66	75.35	75.35	73.67	73.67	64.46	64.46
96.00	100.00	105.00	90.30	90.30	78.15	78.15	70.64	70.64	69.06	69.06	60.43	60.43
96.88	100.00	105.00	89.34	89.34	77.28	77.28	70.00	70.00	68.44	68.44	59.88	59.88
102.00	97.51	97.51	79.00	79.00	66.87	66.87	59.53	59.53	58.39	58.39	52.20	52.20
108.00	81.95	81.95	66.30	66.30	56.02	56.02	49.79	49.79	48.81	48.81	43.54	43.54
114.00	69.53	69.53	56.19	56.19	47.41	47.41	42.08	42.08	41.24	41.24	36.71	36.71
120.00	59.51	59.51	48.05	48.05	40.49	40.49	35.89	35.89	35.17	35.17	31.25	31.25
126.00	51.33	51.33	41.41	41.41	34.86	34.86	30.87	30.87	30.24	30.24	26.83	26.83
132.00	44.59	44.59	35.94	35.94	30.23	30.23	26.74	26.74	26.19	26.19	23.21	23.21

HYBRID SILL WITH IMPROVED WEEP SYSTEM WHERE WATER PENETRATION RESISTANCE IS REQUIRED

Chart #2

Maximum Design pressure (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	60.00	105.00	60.00	105.00	60.00	96.69	60.00	84.77	60.00	82.87	60.00	72.51
84.00	60.00	105.00	60.00	105.00	60.00	92.08	60.00	80.73	60.00	78.93	60.00	69.06
90.00	60.00	105.00	60.00	97.53	60.00	84.66	60.00	75.35	60.00	73.67	60.00	64.46
96.00	60.00	105.00	60.00	90.30	60.00	78.15	60.00	70.64	60.00	69.06	60.00	60.43
96.88	60.00	105.00	60.00	89.34	60.00	77.28	60.00	70.00	60.00	68.44	59.88	59.88
102.00	60.00	97.51	60.00	79.00	60.00	66.87	59.53	59.53	58.39	58.39	52.20	52.20
108.00	60.00	81.95	60.00	66.30	56.02	56.02	49.79	49.79	48.81	48.81	43.54	43.54
114.00	60.00	69.53	56.19	56.19	47.41	47.41	42.08	42.08	41.24	41.24	36.71	36.71
120.00	59.51	59.51	48.05	48.05	40.49	40.49	35.89	35.89	35.17	35.17	31.25	31.25
126.00	51.33	51.33	41.41	41.41	34.86	34.86	30.87	30.87	30.24	30.24	26.83	26.83
132.00	44.59	44.59	35.94	35.94	30.23	30.23	26.74	26.74	26.19	26.19	23.21	23.21

HYBRID SILL WITH STANDARD WEEPS WHERE WATER PENETRATION RESISTANCE IS REQUIRED

Chart #4

Maximum Design pressure (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	105.00	105.00	105.00	105.00	96.69	96.69	84.77	84.77	82.87	82.87	72.51	72.51
84.00	105.00	105.00	105.00	105.00	92.08	92.08	80.73	80.73	78.93	78.93	69.06	69.06
90.00	105.00	105.00	97.53	97.53	84.66	84.66	75.35	75.35	73.67	73.67	64.46	64.46
96.00	105.00	105.00	90.30	90.30	78.15	78.15	70.64	70.64	69.06	69.06	60.43	60.43
96.88	105.00	105.00	89.34	89.34	77.28	77.28	70.00	70.00	68.44	68.44	59.88	59.88
102.00	97.51	97.51	79.00	79.00	66.87	66.87	59.53	59.53	58.39	58.39	52.20	52.20
108.00	81.95	81.95	66.30	66.30	56.02	56.02	49.79	49.79	48.81	48.81	43.54	43.54
114.00	69.53	69.53	56.19	56.19	47.41	47.41	42.08	42.08	41.24	41.24	36.71	36.71
120.00	59.51	59.51	48.05	48.05	40.49	40.49	35.89	35.89	35.17	35.17	31.25	31.25
126.00	51.33	51.33	41.41	41.41	34.86	34.86	30.87	30.87	30.24	30.24	26.83	26.83
132.00	44.59	44.59	35.94	35.94	30.23	30.23	26.74	26.74	26.19	26.19	23.21	23.21

HYBRID SILL WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED

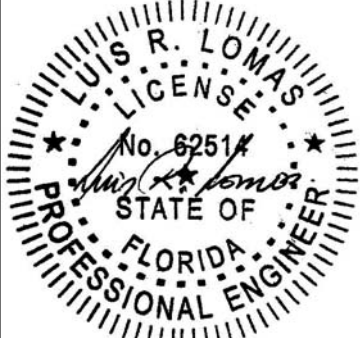
Chart #5

Maximum Design pressure (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	35.00	52.50	35.00	52.50	35.00	48.34	35.00	42.38	35.00	41.44	35.00	36.26
84.00	35.00	52.50	35.00	52.50	35.00	46.04	35.00	40.36	35.00	39.46	34.53	34.53
90.00	35.00	52.50	35.00	48.76	35.00	42.33	35.00	37.67	35.00	36.83	32.23	32.23
96.00	35.00	52.50	35.00	45.15	35.00	39.07	35.00	35.32	34.53	34.53	30.21	30.21
96.88	35.00	52.50	35.00	44.67	35.00	38.64	35.00	35.00	34.22	34.22	29.94	29.94
102.00	35.00	48.76	35.00	39.50	33.43	33.43	29.77	29.77	29.19	29.19	26.10	26.10
108.00	35.00	40.97	33.15	33.15	28.01	28.01	24.90	24.90	24.41	24.41	21.77	21.77
114.00	34.77	34.77	28.10	28.10	23.71	23.71	21.04	21.04	20.62	20.62	18.36	18.36
120.00	29.76	29.76	24.02	24.02	20.24	20.24	17.95	17.95	17.58	17.58	15.63	15.63
126.00	25.67	25.67	20.70	20.70	17.43	17.43	15.43	15.43	15.12	15.12	-	-
132.00	22.29	22.29	17.97	17.97	15.11	15.11	-	-	-	-	-	-

SADDLE SILL WITH OPEN WEEPS WHERE WATER PENETRATION RESISTANCE AND L/175 DEFLECTION ARE REQUIRED

SIGNED: 03/07/2022

NANA WALL SYSTEMS, INC. 100 MEADOWCREEK DRIVE, SUITE 250 CORTE MADERA, CA 94925		
SERIES NW REINFORCED 647/SL64/ECOLINE OUTSWING FOLDING DOOR NON-IMPACT DESIGN PRESSURE CHARTS		
DRAWN: A.R.	DWG NO. 08-03771	REV -
SCALE NTS	DATE 11/24/2021	SHEET 4 OF 11
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FL No.: 62514

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Chart #6

Maximum Design pressure (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	52.50	52.50	52.50	52.50	48.34	48.34	42.38	42.38	41.44	41.44	36.26	36.26
84.00	52.50	52.50	52.50	52.50	46.04	46.04	40.36	40.36	39.46	39.46	34.53	34.53
90.00	52.50	52.50	48.76	48.76	42.33	42.33	37.67	37.67	36.83	36.83	32.23	32.23
96.00	52.50	52.50	45.15	45.15	39.07	39.07	35.32	35.32	34.53	34.53	30.21	30.21
96.88	52.50	52.50	44.67	44.67	38.64	38.64	35.00	35.00	34.22	34.22	29.94	29.94
102.00	48.76	48.76	39.50	39.50	33.43	33.43	29.77	29.77	29.19	29.19	26.10	26.10
108.00	40.97	40.97	33.15	33.15	28.01	28.01	24.90	24.90	24.41	24.41	21.77	21.77
114.00	34.77	34.77	28.10	28.10	23.71	23.71	21.04	21.04	20.62	20.62	18.36	18.36
120.00	29.76	29.76	24.02	24.02	20.24	20.24	17.95	17.95	17.58	17.58	15.63	15.63
126.00	25.67	25.67	20.70	20.70	17.43	17.43	15.43	15.43	15.12	15.12	-	-
132.00	22.29	22.29	17.97	17.97	15.11	15.11	-	-	-	-	-	-

SADDLE SILL WITH UNIVERSILL WHERE WATER PENETRATION RESISTANCE AND L/175 DEFLECTION ARE REQUIRED

Chart #8

Maximum Design pressure (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	60.00	105.00	60.00	105.00	60.00	96.69	60.00	84.77	60.00	82.87	60.00	72.51
84.00	60.00	105.00	60.00	105.00	60.00	92.08	60.00	80.73	60.00	78.93	60.00	69.06
90.00	60.00	105.00	60.00	97.53	60.00	84.66	60.00	75.35	60.00	73.67	60.00	64.46
96.00	60.00	105.00	60.00	90.30	60.00	78.15	60.00	70.64	60.00	69.06	60.00	60.43
96.88	60.00	105.00	60.00	89.34	60.00	77.28	60.00	70.00	60.00	68.44	59.88	59.88
102.00	60.00	97.51	60.00	79.00	60.00	66.87	59.53	59.53	58.39	58.39	52.20	52.20
108.00	60.00	81.95	60.00	66.30	56.02	56.02	49.79	49.79	48.81	48.81	43.54	43.54
114.00	60.00	69.53	56.19	56.19	47.41	47.41	42.08	42.08	41.24	41.24	36.71	36.71
120.00	59.51	59.51	48.05	48.05	40.49	40.49	35.89	35.89	35.17	35.17	31.25	31.25
126.00	51.33	51.33	41.41	41.41	34.86	34.86	30.87	30.87	30.24	30.24	26.83	26.83
132.00	44.59	44.59	35.94	35.94	30.23	30.23	26.74	26.74	26.19	26.19	23.21	23.21

SADDLE SILL WITH UNIVERSILL WHERE WATER PENETRATION RESISTANCE IS REQUIRED

Chart #7

Maximum Design pressure (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	35.00	105.00	35.00	105.00	35.00	96.69	35.00	84.77	35.00	82.87	35.00	72.51
84.00	35.00	105.00	35.00	105.00	35.00	92.08	35.00	80.73	35.00	78.93	35.00	69.06
90.00	35.00	105.00	35.00	97.53	35.00	84.66	35.00	75.35	35.00	73.67	35.00	64.46
96.00	35.00	105.00	35.00	90.30	35.00	78.15	35.00	70.64	35.00	69.06	35.00	60.43
96.88	35.00	105.00	35.00	89.34	35.00	77.28	35.00	70.00	35.00	68.44	35.00	59.88
102.00	35.00	97.51	35.00	79.00	35.00	66.87	35.00	59.53	35.00	58.39	35.00	52.20
108.00	35.00	81.95	35.00	66.30	35.00	56.02	35.00	49.79	35.00	48.81	35.00	43.54
114.00	35.00	69.53	35.00	56.19	35.00	47.41	35.00	42.08	35.00	41.24	35.00	36.71
120.00	35.00	59.51	35.00	48.05	35.00	40.49	35.00	35.89	35.00	35.17	31.25	31.25
126.00	35.00	51.33	35.00	41.41	34.86	34.86	30.87	30.87	30.24	30.24	26.83	26.83
132.00	35.00	44.59	35.00	35.94	30.23	30.23	26.74	26.74	26.19	26.19	23.21	23.21

SADDLE SILL WITH OPEN WEEPS WHERE WATER PENETRATION RESISTANCE IS REQUIRED

Chart #9

Maximum Design pressure (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	105.00	105.00	105.00	105.00	96.69	96.69	84.77	84.77	82.87	82.87	72.51	72.51
84.00	105.00	105.00	105.00	105.00	92.08	92.08	80.73	80.73	78.93	78.93	69.06	69.06
90.00	105.00	105.00	97.53	97.53	84.66	84.66	75.35	75.35	73.67	73.67	64.46	64.46
96.00	105.00	105.00	90.30	90.30	78.15	78.15	70.64	70.64	69.06	69.06	60.43	60.43
96.88	105.00	105.00	89.34	89.34	77.28	77.28	70.00	70.00	68.44	68.44	59.88	59.88
102.00	97.51	97.51	79.00	79.00	66.87	66.87	59.53	59.53	58.39	58.39	52.20	52.20
108.00	81.95	81.95	66.30	66.30	56.02	56.02	49.79	49.79	48.81	48.81	43.54	43.54
114.00	69.53	69.53	56.19	56.19	47.41	47.41	42.08	42.08	41.24	41.24	36.71	36.71
120.00	59.51	59.51	48.05	48.05	40.49	40.49	35.89	35.89	35.17	35.17	31.25	31.25
126.00	51.33	51.33	41.41	41.41	34.86	34.86	30.87	30.87	30.24	30.24	26.83	26.83
132.00	44.59	44.59	35.94	35.94	30.23	30.23	26.74	26.74	26.19	26.19	23.21	23.21

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

SIGNED: 03/07/2022

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

SERIES NW REINFORCED 647/SL64/ECOLINE
OUTSWING FOLDING DOOR NON-IMPACT
DESIGN PRESSURE CHARTS

DRAWN:
A.R.

DWG NO.
08-03771

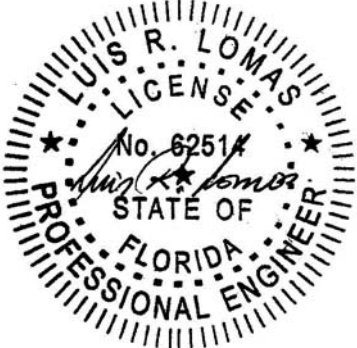
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SCALE
NTS

DATE
11/24/2021

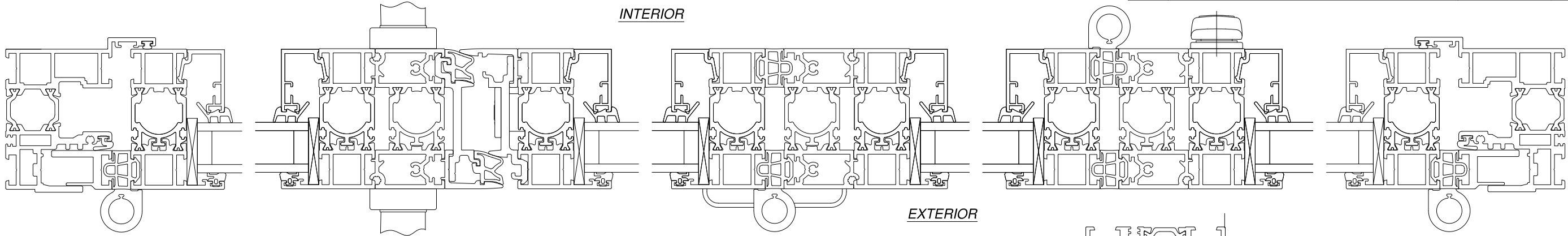
SHEET
5 OF 11

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

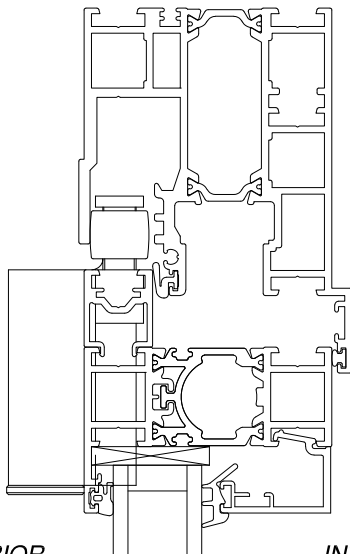


Luis R. Lomas P.E.
FL No.: 62514

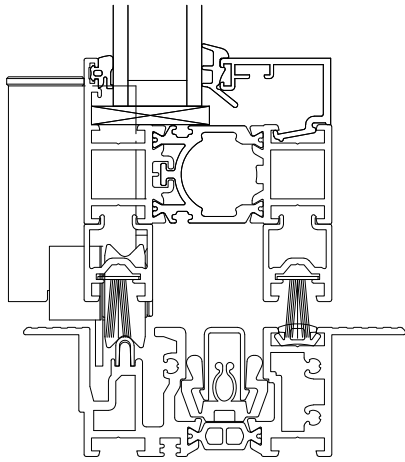
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



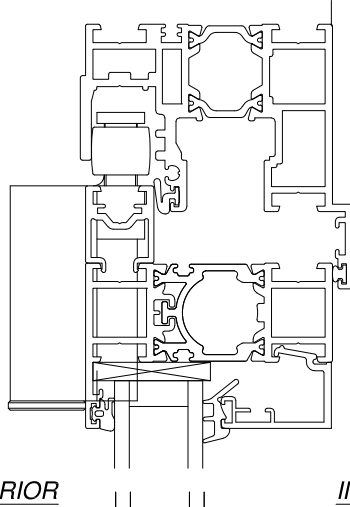
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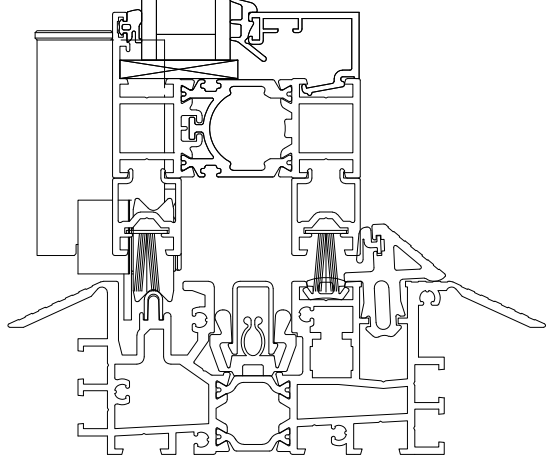
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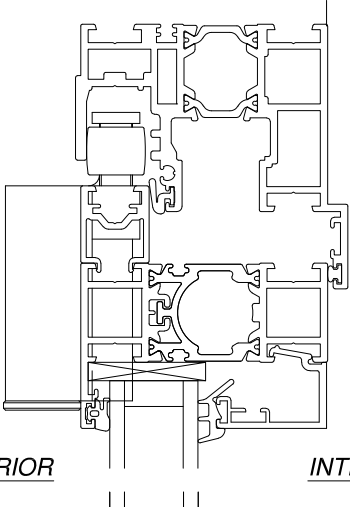
VERTICAL CROSS SECTION
WITH EXTENDED HEAD AND FLUSH SILL



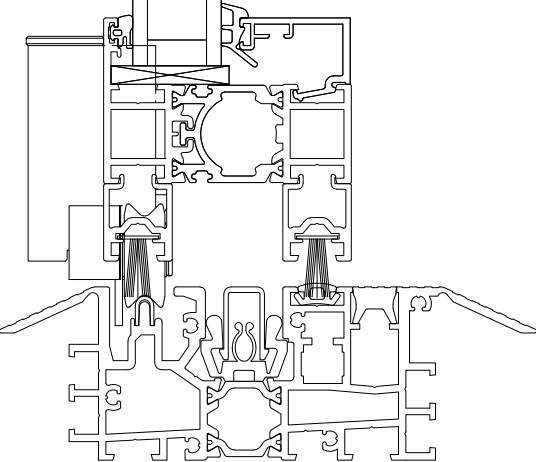
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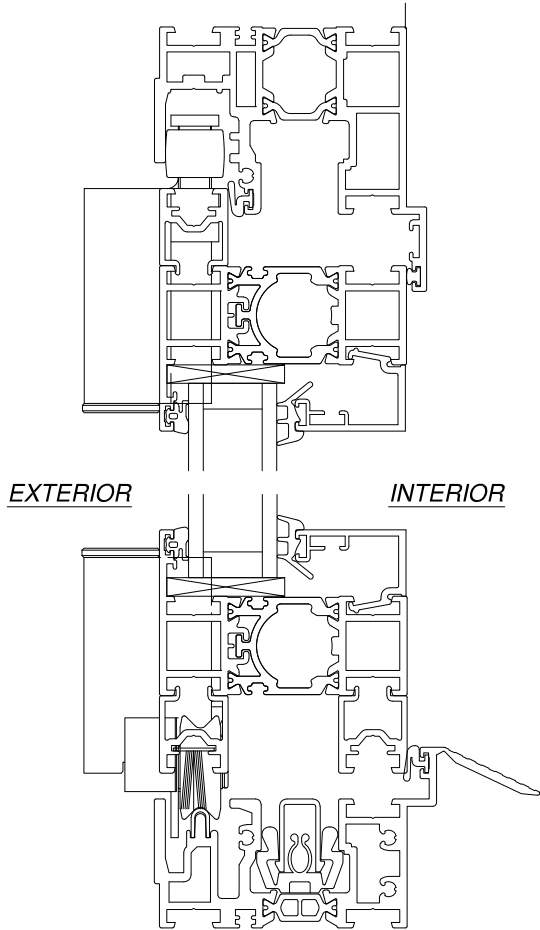
VERTICAL CROSS SECTION
WITH UNIVERSILL



EXTERIOR INTERIOR



VERTICAL CROSS SECTION
WITH SADDLE SILL

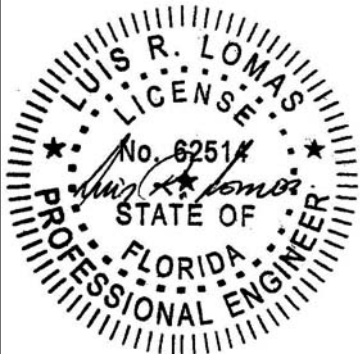


EXTERIOR INTERIOR

VERTICAL CROSS SECTION
WITH HYBRID SILL

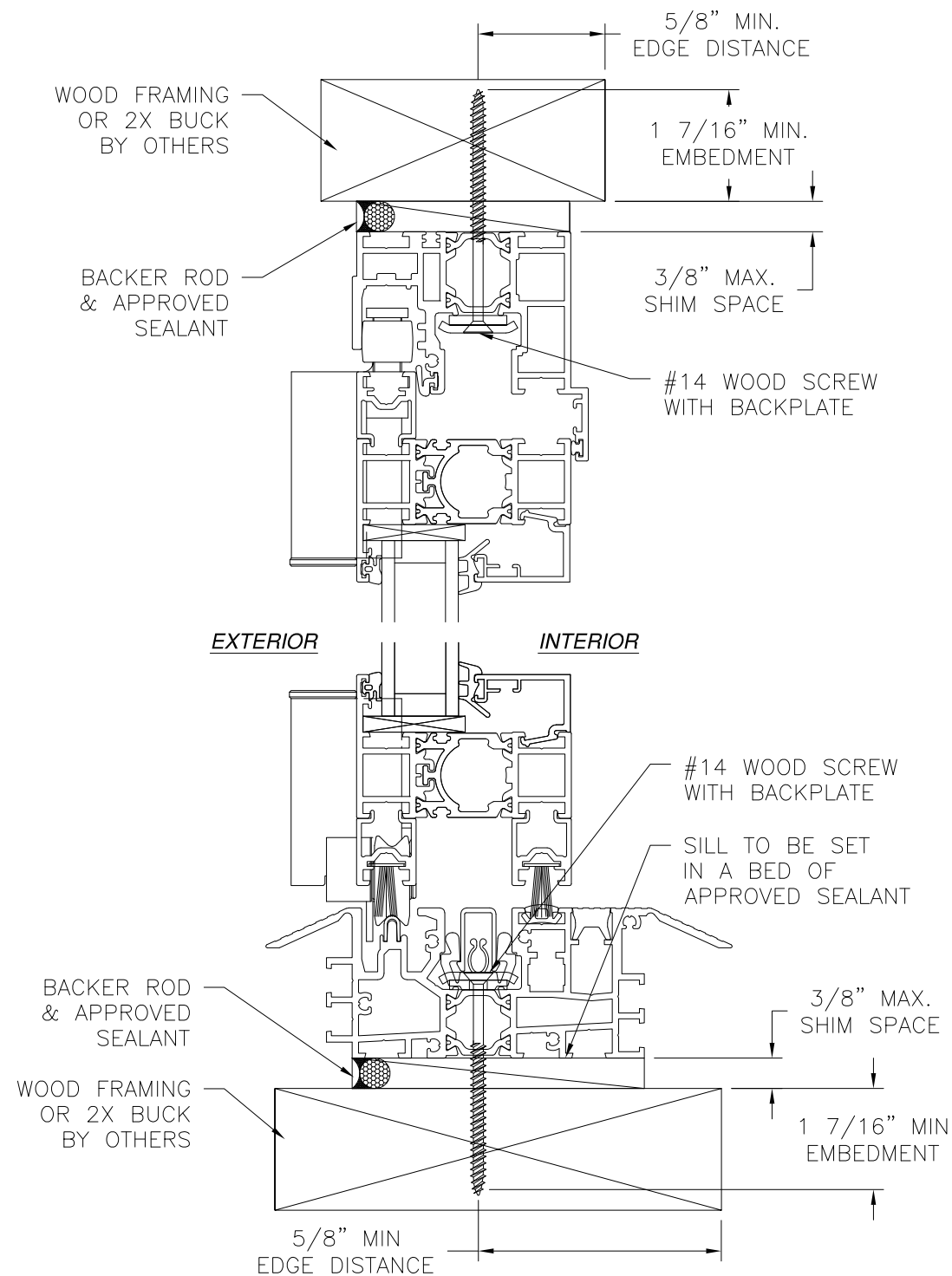
NANA WALL SYSTEMS, INC. 100 MEADOWCREEK DRIVE, SUITE 250 CORTE MADERA, CA 94925		
SERIES NW REINFORCED 647/SL64/ECOLINE OUTSWING FOLDING DOOR NON-IMPACT CROSS SECTION		
DRAWN: A.R.	DWG NO. 08-03771	REV -
SCALE NTS	DATE 11/24/2021	SHEET 6 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 03/07/2022

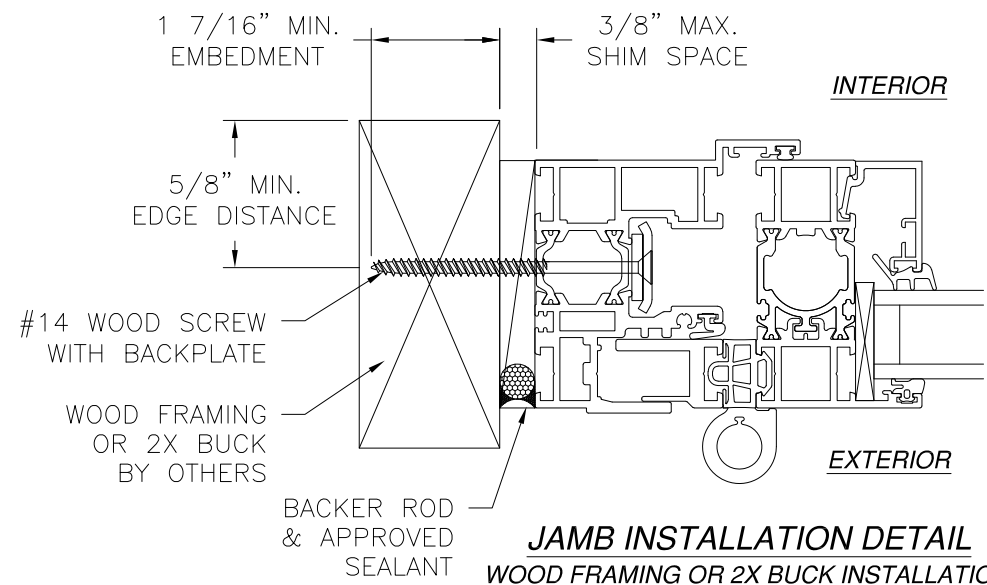


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FL No.: 62514

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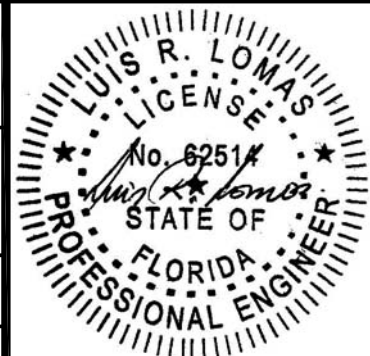
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION
SADDLE SILL SHOWN, OTHER SILLS SIMILAR



- 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

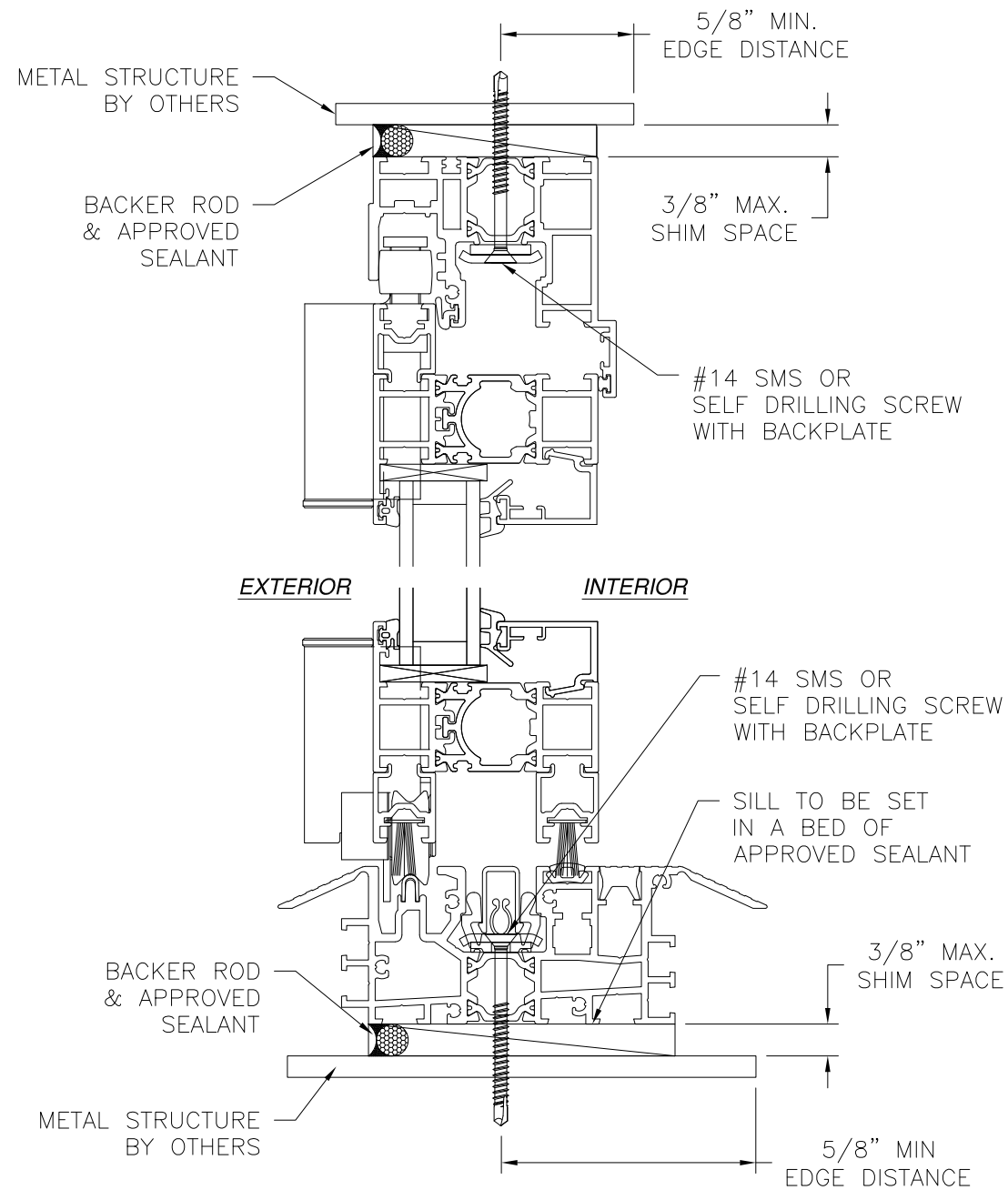
SIGNED: 03/07/2022

NANA WALL SYSTEMS, INC. 100 MEADOWCREEK DRIVE, SUITE 250 CORTE MADERA, CA 94925		
SERIES NW REINFORCED 647/SL64/ECOLINE OUTSWING FOLDING DOOR NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03771	REV -
SCALE NTS	DATE 11/24/2021	SHEET 7 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

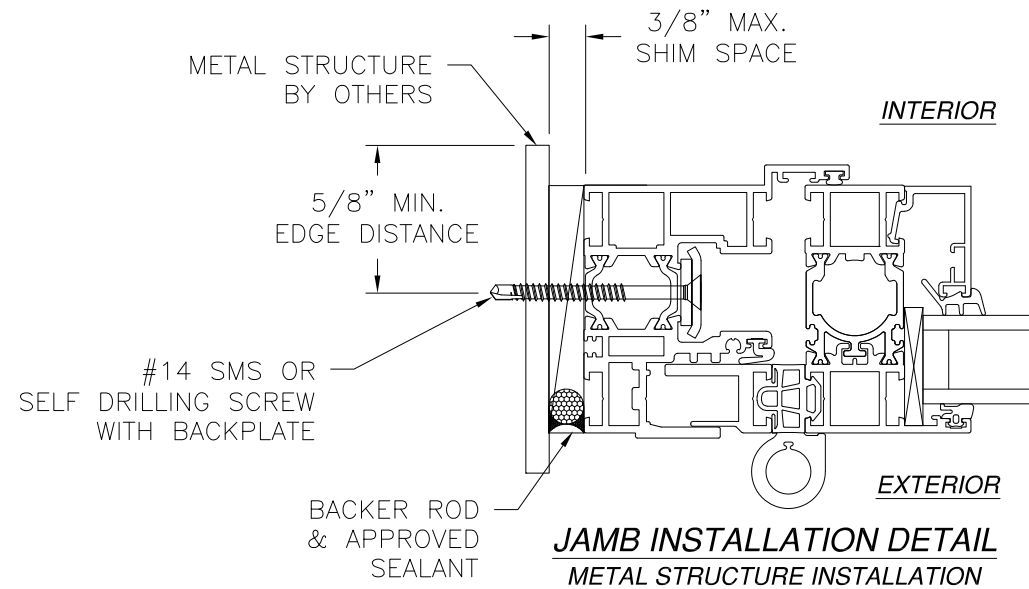


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



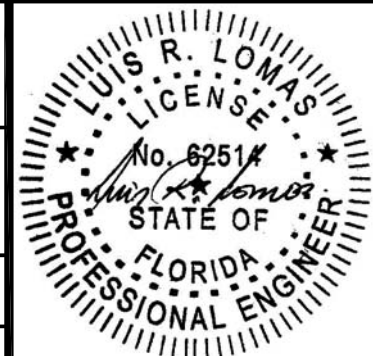
VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION
 HYBRID SILL SHOWN, OTHER SILLS SIMILAR



- 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

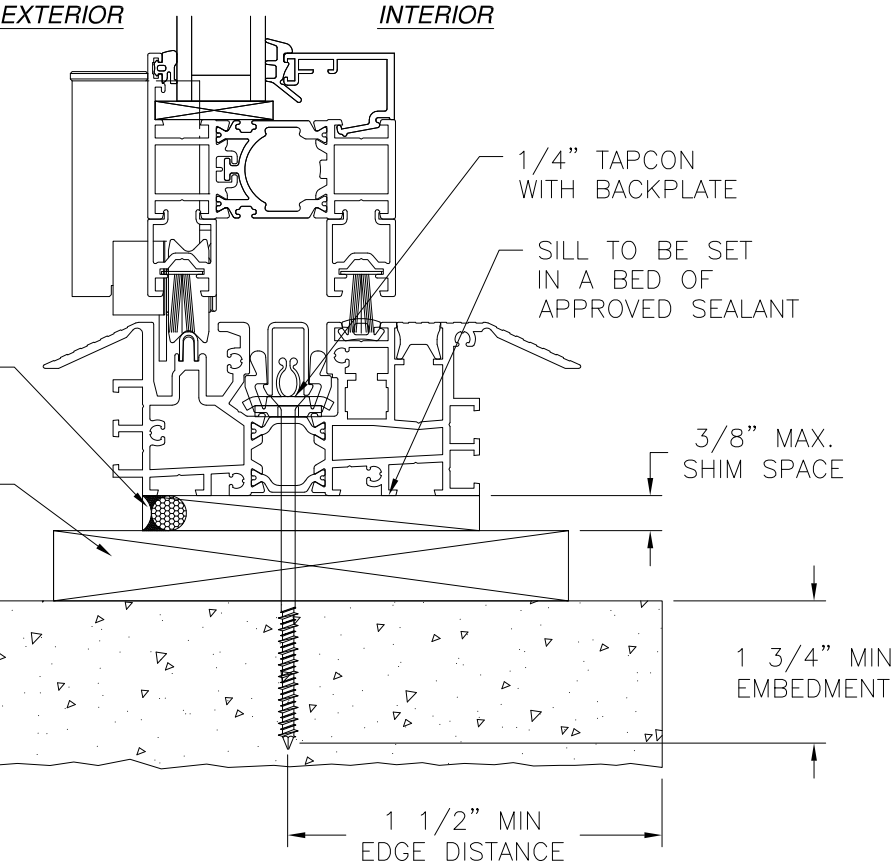
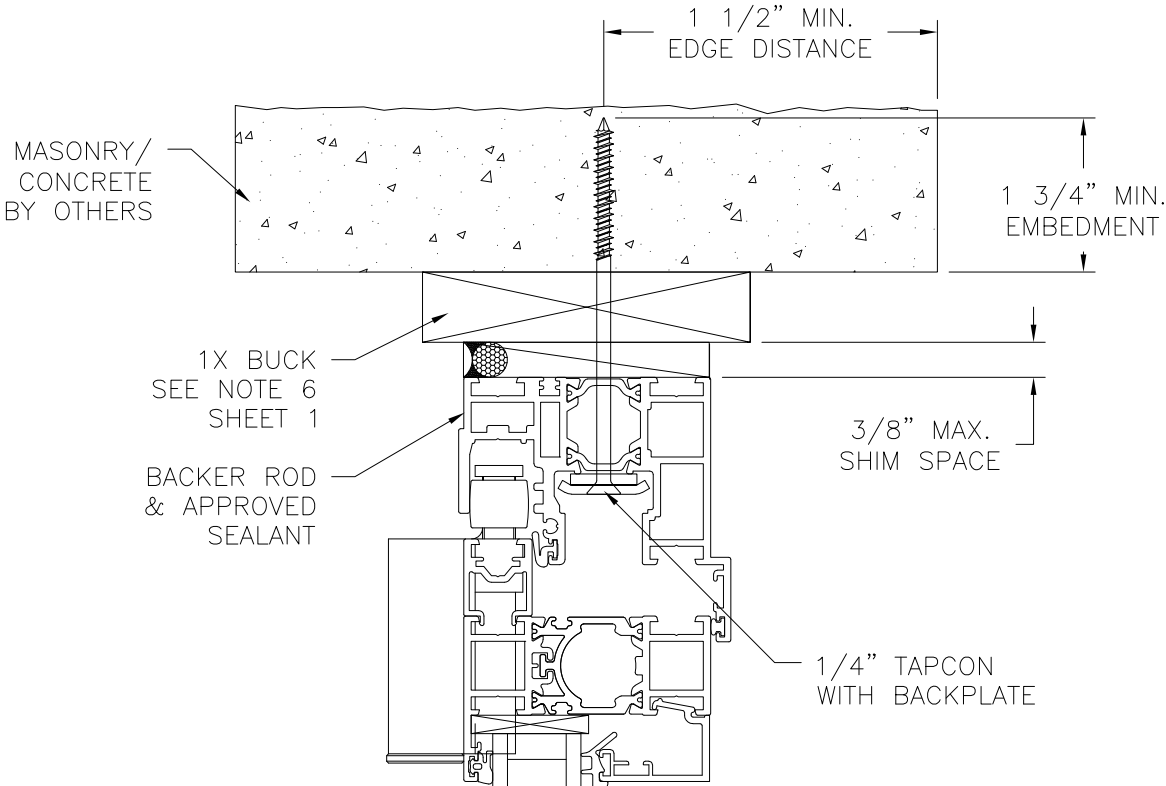
SIGNED: 03/07/2022

NANA WALL SYSTEMS, INC. 100 MEADOWCREEK DRIVE, SUITE 250 CORTE MADERA, CA 94925		
SERIES NW REINFORCED 647/SL64/ECOLINE OUTSWING FOLDING DOOR NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03771	REV -
SCALE NTS	DATE 11/24/2021	SHEET 8 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

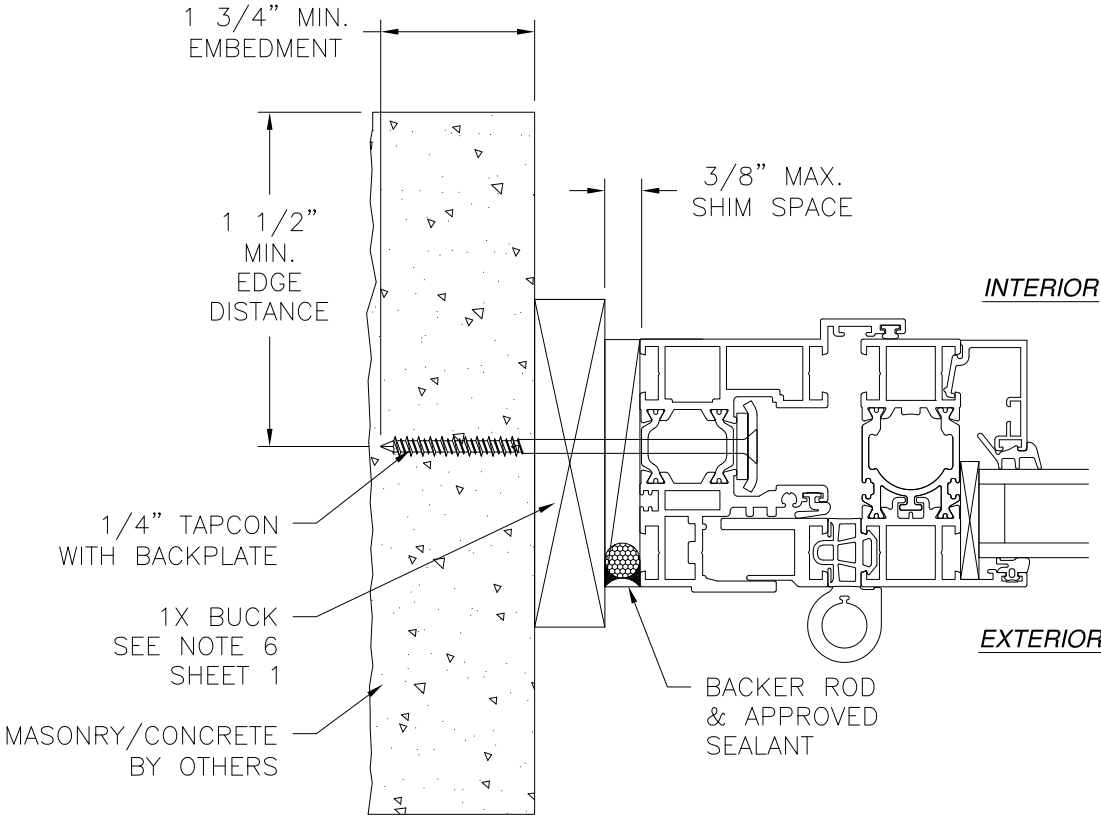


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 FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



VERTICAL CROSS SECTION
MASONRY/CONCRETE W/1X BUCK INSTALLATION
HYBRID SILL SHOWN, OTHER SILLS SIMILAR



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

NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW REINFORCED 647/SL64/ECOLINE
OUTSWING FOLDING DOOR NON-IMPACT
INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03771

REV -

SCALE NTS

DATE 11/24/2021

SHEET 9 OF 11

L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

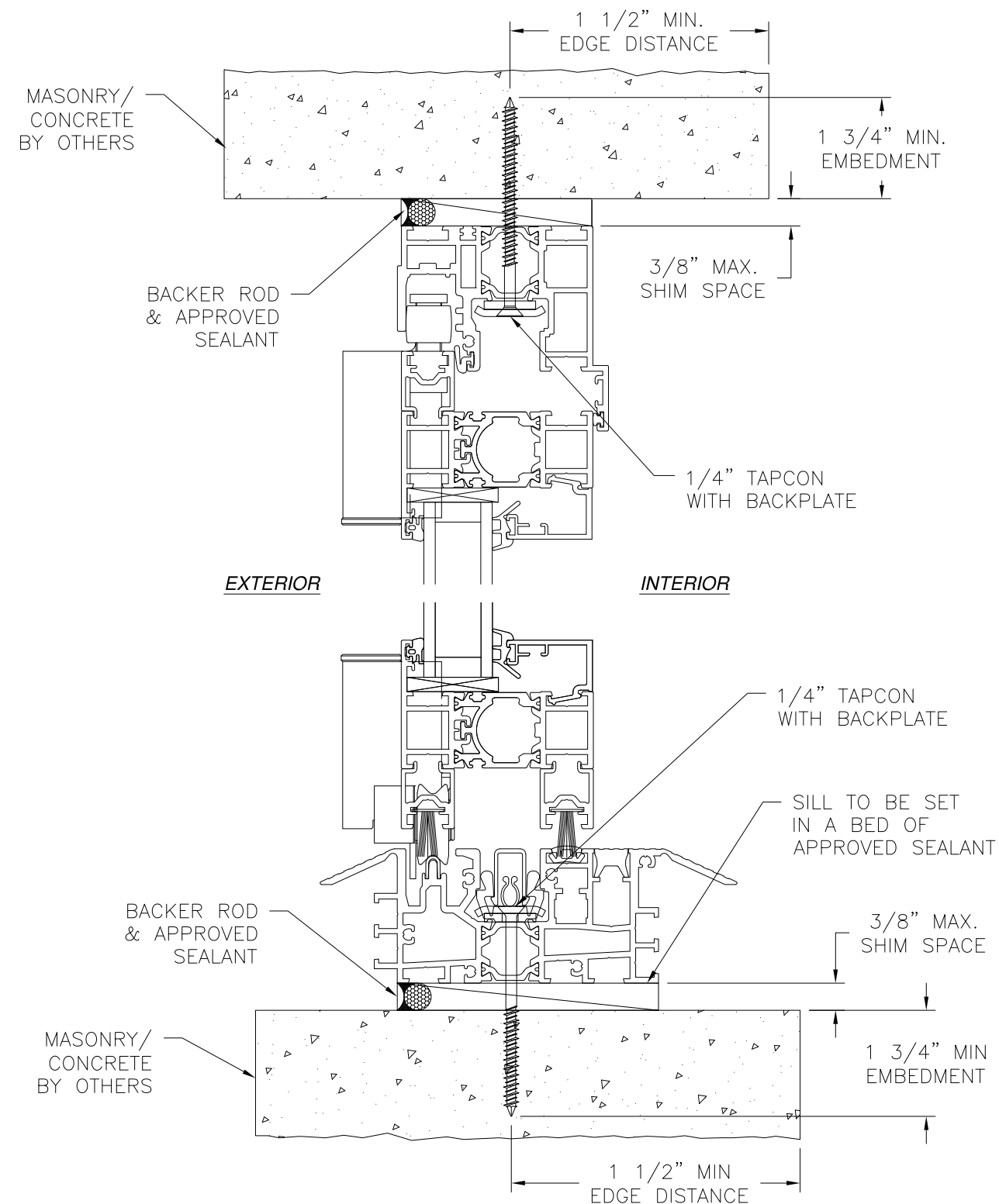
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 03/07/2022

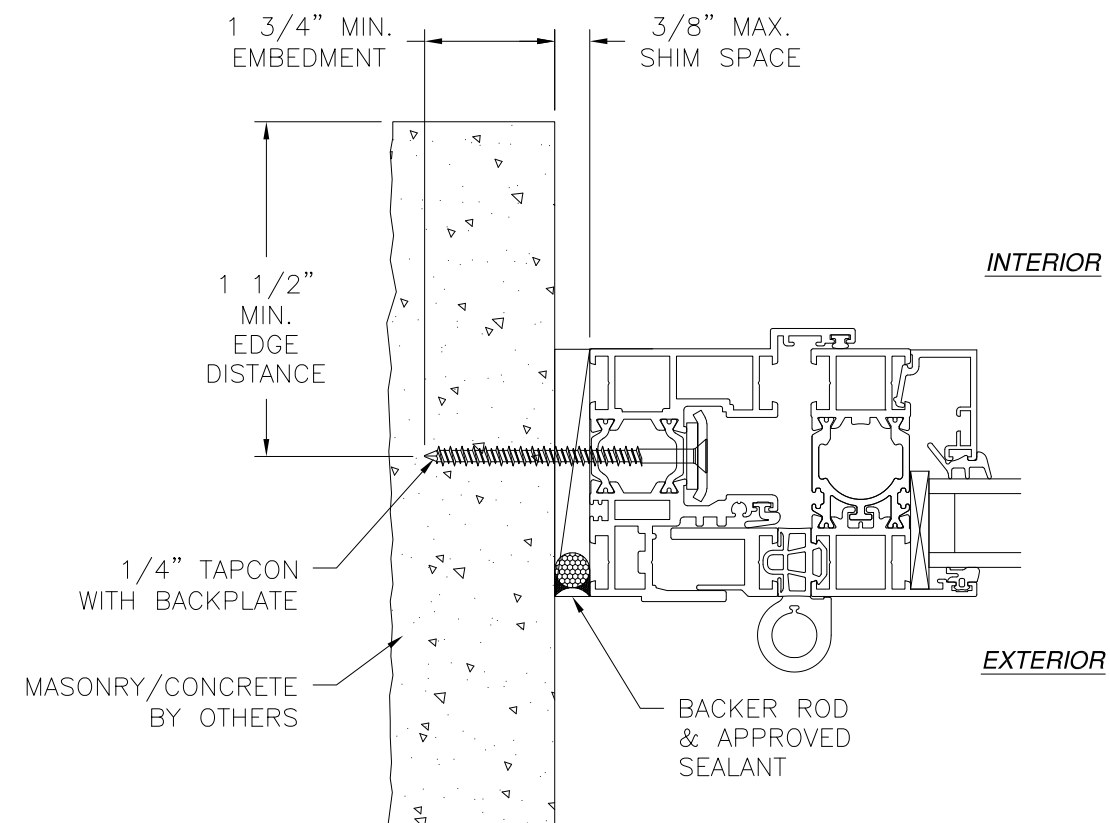


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FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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



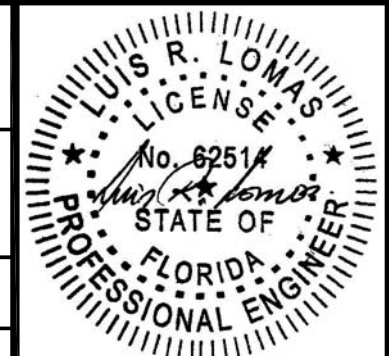
JAMB INSTALLATION DETAIL
MASONRY/CONCRETE INSTALLATION

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

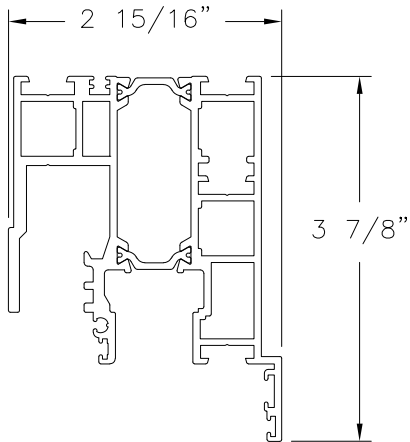
SIGNED: 03/07/2022

NANA WALL SYSTEMS, INC. 100 MEADOWCREEK DRIVE, SUITE 250 CORTE MADERA, CA 94925		
SERIES NW REINFORCED 647/SL64/ECOLINE OUTSWING FOLDING DOOR NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03771	REV -
SCALE NTS	DATE 11/24/2021	SHEET 10 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

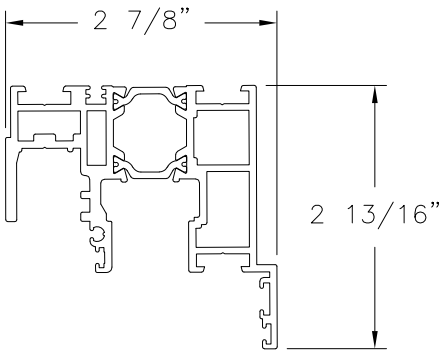


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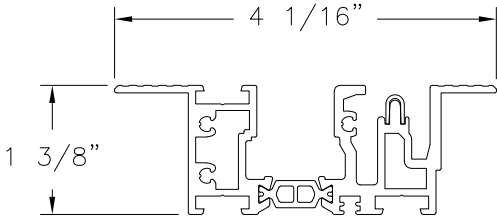
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



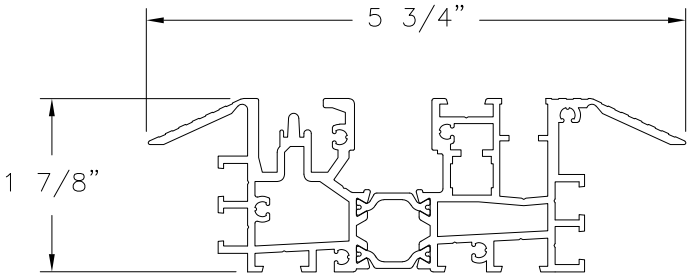
EXTENDED HEAD PROFILE
ALUMINUM 6063-T5



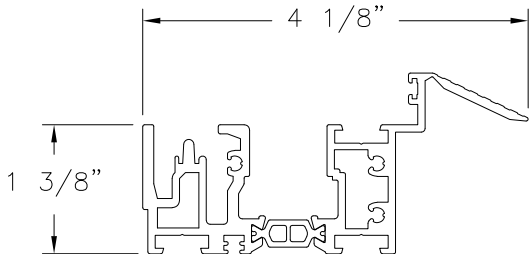
HEAD & JAMB PROFILE (5-310-04)
ALUMINUM 6063-T5



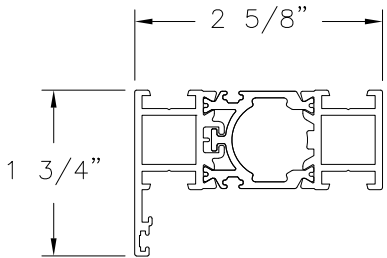
FLUSH SILL
ALUMINUM 6063-T5



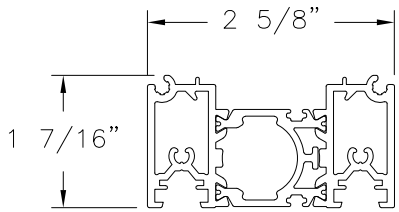
LOW PROFILE SADDLE SILL (5-310-11)
ALUMINUM 6063-T5



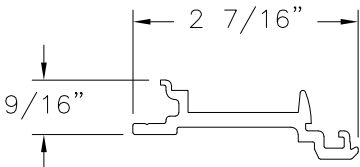
HYBRID SILL (5-310-09)
ALUMINUM 6063-T5



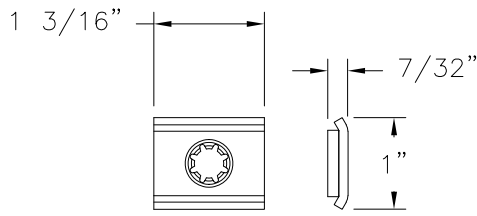
OUTSWING PANEL PROFILE (5-310-02)
ALUMINUM 6063-T5



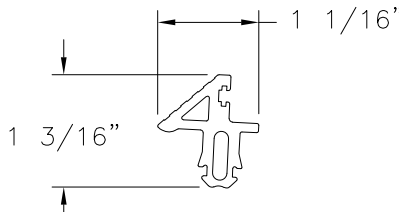
**NARROW CONNECTION
PROFILE (5-310-30)**
ALUMINUM 6063-T5



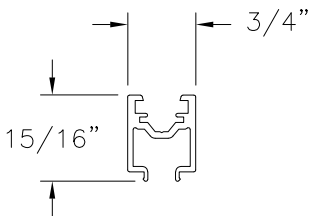
**CONNECTION STRIP
PROFILE (5-310-27)**
POLYAMIDE



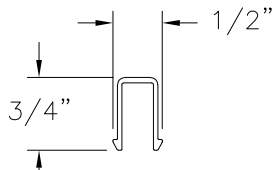
BACK PLATE (15-310-40)
STEEL



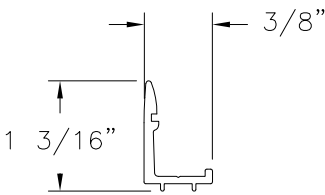
UNIVERSILL
EPDM GASKET



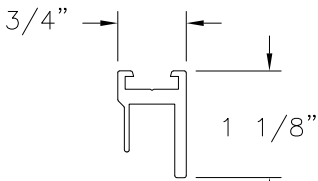
EXTENSION PROFILE (5-300-04)
ALUMINUM 6063-T5



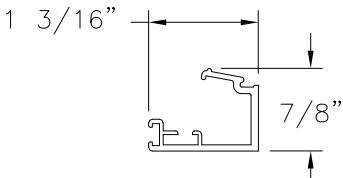
**SILL INSERT
PROFILE (5-310-26)**
ALUMINUM 6063-T5



BAR PROFILE (5-300-08)
ALUMINUM 6063-T5



**ADJUSTABLE JAMB
PROFILE (5-300-01)**
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"

SIGNED: 03/07/2022

NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW REINFORCED 647/SL64/ECOLINE
OUTSWING FOLDING DOOR NON-IMPACT
COMPONENTS

DRAWN: A.R.

DWG NO. 08-03771

REV -

SCALE NTS

DATE 11/24/2021

SHEET 11 OF 11

L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

434-688-0609 rllomas@lrlomaspe.com



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