

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 WITH WOOD CLADDING.
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	CROSS SECTION
7 – 10	INSTALLATION DETAILS
11	COMPONENTS

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

SERIES NW WOOD 540/WD86/WOODLINE INSWING
FOLDING DOOR NON-IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-03764

REV
-

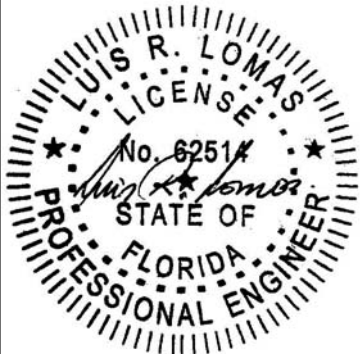
SCALE
NTS

DATE
11/17/2021

SHEET
1 OF 11

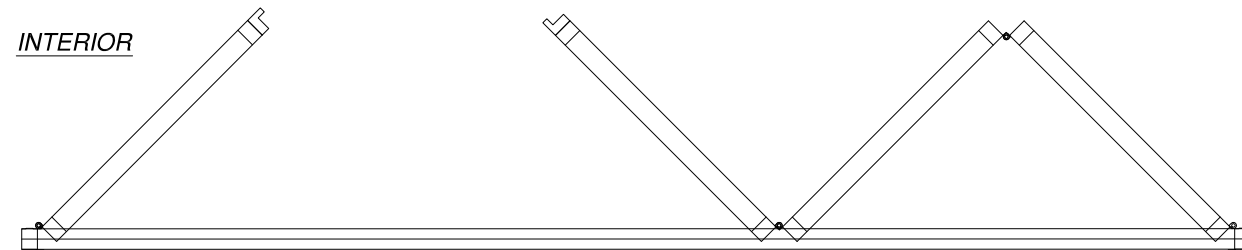
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 03/07/2022



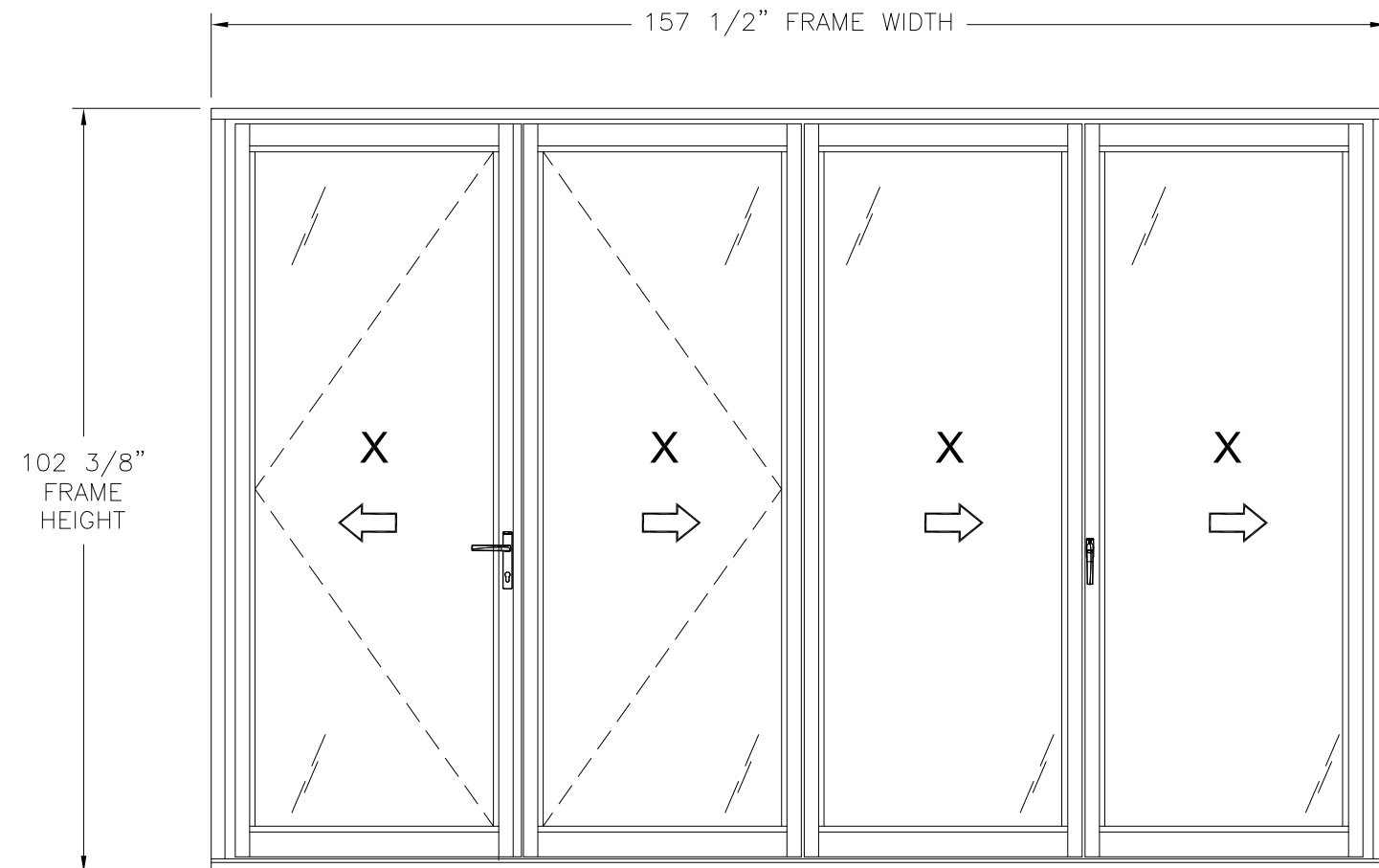
Luis R. Lomas P.E.
FL No.: 62514

INTERIOR



EXTERIOR

157 1/2" FRAME WIDTH



SERIES NW WOOD 540 FOLDING PANEL SYSTEM INSWING

INTERIOR VIEW

FRAME INSTALLATION

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

HYBRID SILL WITH STANDARD WEEPS

DESIGN PRESSURE RATING	IMPACT RATING
±45.0PSF	NONE

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

HYBRID SILL WITH IMPROVED WEEP SYSTEM

DESIGN PRESSURE RATING	IMPACT RATING
±45.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS REQUIRED AND L/175 DEFLECTION ARE REQUIRED
FOR ADDITIONAL SIZES SEE CHART #2, SHEET 4

NOTES:

1. LOCKING SWING PANEL SIZE: 40 11/16" X 98 3/16"
2. KEEPER FOLDING PANEL SIZE: 38 1/2" X 98 3/16"
3. FOLDING PANEL SIZE: 38" X 98 3/16"
4. JAMB LOCKING PANEL SIZE: 40 1/4" X 98 3/16"
5. D.L.O. SIZE: 31 1/2" X 90 1/2"

REVISIONS

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

HYBRID SILL WITH STANDARD WEEPS

DESIGN PRESSURE RATING	IMPACT RATING
+39.0/-55.0PSF	NONE

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

HYBRID SILL WITH IMPROVED WEEP SYSTEM

DESIGN PRESSURE RATING	IMPACT RATING
+39.0/-55.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS REQUIRED AND L/175 IS NOT REQUIRED
FOR ADDITIONAL SIZES SEE CHART #4, SHEET 4

HYBRID SILL

DESIGN PRESSURE RATING	IMPACT RATING
+39.0/-55.0PSF	NONE

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

SADDLE SILL WITH OPEN WEEPS

DESIGN PRESSURE RATING	IMPACT RATING
+35.0/-50.0PSF	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/-45.0PSF	NONE

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

SADDLE SILL OR FLUSH SILL

DESIGN PRESSURE RATING	IMPACT RATING
+40.0/-45.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
FOR ADDITIONAL SIZES SEE CHART #8, SHEET 5

SIGNED: 03/07/2022

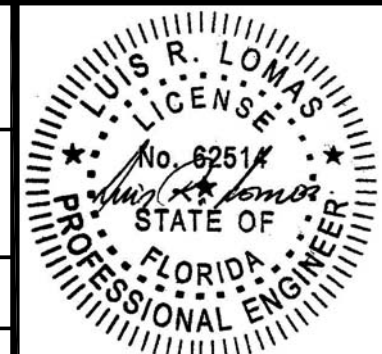
NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW WOOD 540/WD86/WOODLINE INSWING
FOLDING DOOR NON-IMPACT
ELEVATION

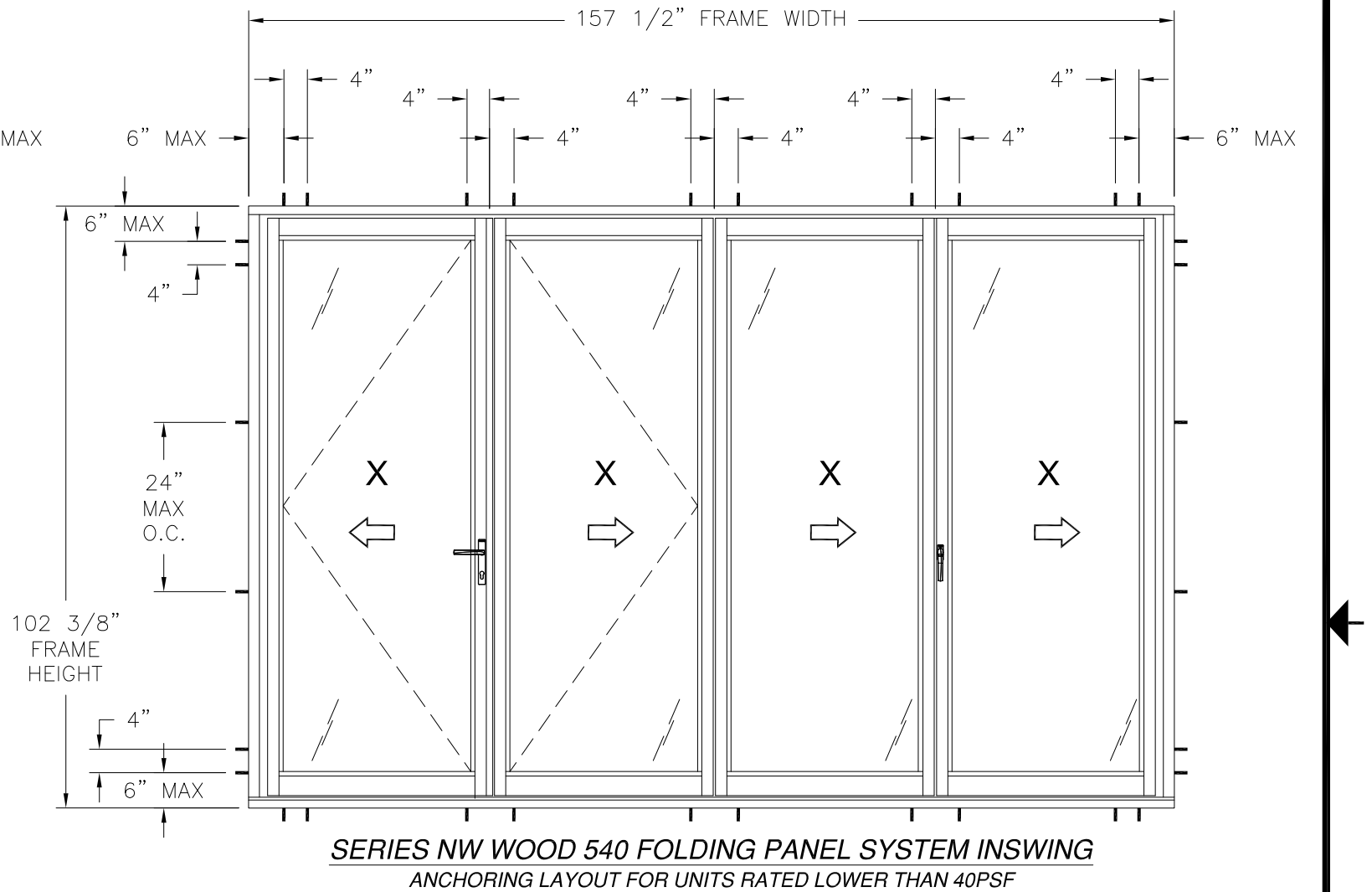
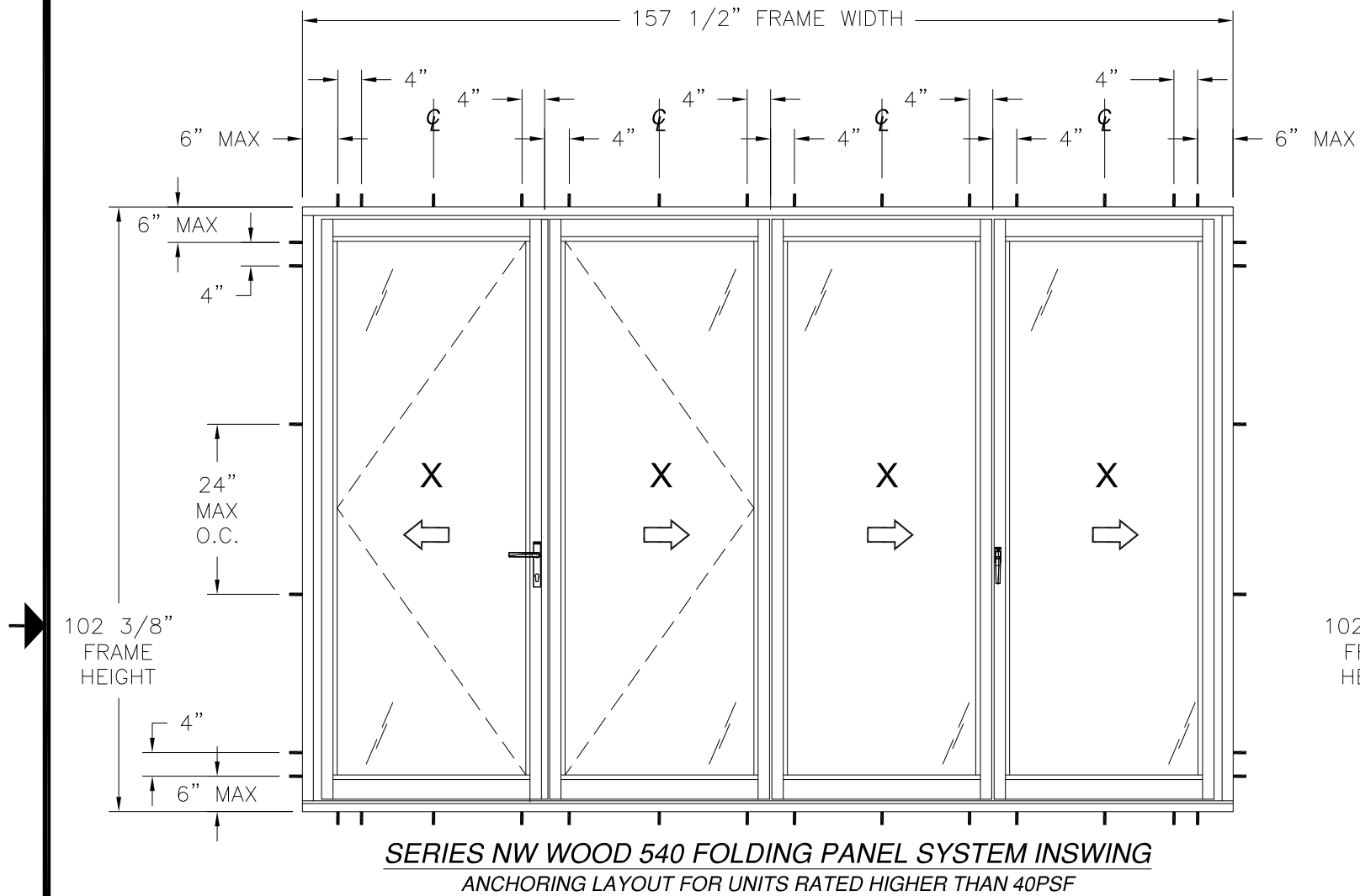
DRAWN: A.R.	DWG NO. 08-03764	REV -
SCALE NTS	DATE 11/17/2021	SHEET 2 OF 11

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



SIGNED: 03/07/2022

NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW WOOD 540/WD86/WOODLINE INSWING

FOLDING DOOR NON-IMPACT

ANCHORING LAYOUTS

DRAWN: A.R.

DWG NO. 08-03764

REV -

SCALE NTS

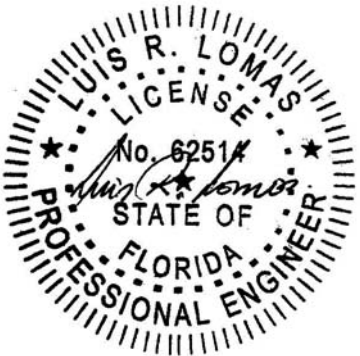
DATE 11/17/2021

SHEET 3 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

Chart #1

Maximum Design pressure (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		40.69		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	52.50	67.50	52.50	67.50	52.50	62.42	52.50	55.23	52.50	53.50	46.82	46.82
84.00	52.50	67.50	52.50	67.50	52.50	59.45	52.50	52.60	50.96	50.96	44.59	44.59
90.00	52.50	67.50	52.50	63.35	52.50	54.99	49.09	49.09	47.56	47.56	41.61	41.61
96.00	52.50	67.50	52.50	58.65	50.76	50.76	46.03	46.03	44.59	44.59	39.01	39.01
98.19	52.50	67.50	52.50	57.11	49.37	49.37	45.00	45.00	43.59	43.59	38.14	38.14
102.00	52.50	64.89	52.50	52.57	44.49	44.49	39.93	39.93	38.85	38.85	34.74	34.74
108.00	52.50	54.53	44.12	44.12	37.28	37.28	33.40	33.40	32.48	32.48	28.97	28.97
114.00	46.27	46.27	37.39	37.39	31.55	31.55	28.23	28.23	27.44	27.44	24.43	24.43
120.00	39.60	39.60	31.97	31.97	26.94	26.94	24.08	24.08	23.40	23.40	20.79	20.79
126.00	34.16	34.16	27.55	27.55	23.19	23.19	20.71	20.71	20.12	20.12	17.85	17.85
132.00	29.67	29.67	23.91	23.91	20.11	20.11	17.95	17.95	17.43	17.43	15.45	15.45

HYBRID SILL WITH STANDARD WEEPS 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		40.69		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	60.00	82.50	60.00	82.50	54.10	76.29	47.87	67.50	46.37	65.39	40.57	57.22
84.00	60.00	82.50	59.67	82.50	51.52	72.66	45.59	64.29	44.16	62.28	38.64	54.50
90.00	60.00	82.50	54.90	77.42	47.66	67.21	42.55	60.00	41.22	58.13	36.07	50.86
96.00	60.00	82.50	50.83	71.69	43.99	62.04	39.89	56.25	38.64	54.50	33.81	47.68
98.19	59.72	82.50	49.50	69.80	42.79	60.34	39.00	55.00	37.78	53.28	33.06	46.62
102.00	56.23	79.30	45.56	64.25	38.56	54.38	34.61	48.81	33.67	47.48	30.11	42.46
108.00	47.26	66.65	38.23	53.92	32.31	45.56	28.95	40.82	28.15	39.70	25.11	35.41
114.00	40.10	56.55	32.41	45.70	27.34	38.56	24.47	34.50	23.78	33.54	21.17	29.86
120.00	34.32	48.40	27.71	39.07	23.35	32.93	20.87	29.43	20.28	28.60	18.02	25.42
126.00	29.60	41.75	23.88	33.68	20.10	28.35	17.95	25.31	17.44	24.59	15.47	21.82
132.00	25.71	36.26	20.73	29.23	17.43	24.58	15.55	21.93	15.11	21.30	-	-

HYBRID SILL WITH STANDARD WEEPS 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		40.69		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	67.50	67.50	67.50	67.50	62.42	62.42	55.23	55.23	53.50	53.50	46.82	46.82
84.00	67.50	67.50	67.50	67.50	59.45	59.45	52.60	52.60	50.96	50.96	44.59	44.59
90.00	67.50	67.50	63.35	63.35	54.99	54.99	49.09	49.09	47.56	47.56	41.61	41.61
96.00	67.50	67.50	58.65	58.65	50.76	50.76	46.03	46.03	44.59	44.59	39.01	39.01
98.19	67.50	67.50	57.11	57.11	49.37	49.37	45.00	45.00	43.59	43.59	38.14	38.14
102.00	64.89	64.89	52.57	52.57	44.49	44.49	39.93	39.93	38.85	38.85	34.74	34.74
108.00	54.53	54.53	44.12	44.12	37.28	37.28	33.40	33.40	32.48	32.48	28.97	28.97
114.00	46.27	46.27	37.39	37.39	31.55	31.55	28.23	28.23	27.44	27.44	24.43	24.43
120.00	39.60	39.60	31.97	31.97	26.94	26.94	24.08	24.08	23.40	23.40	20.79	20.79
126.00	34.16	34.16	27.55	27.55	23.19	23.19	20.71	20.71	20.12	20.12	17.85	17.85
132.00	29.67	29.67	23.91	23.91	20.11	20.11	17.95	17.95	17.43	17.43	15.45	15.45

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

Chart #4

Maximum Design pressure (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		40.69		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	75.69	82.50	63.35	82.50	54.10	76.29	47.87	67.50	46.37	65.39	40.57	57.22
84.00	71.48	82.50	59.67	82.50	51.52	72.66	45.59	64.29	44.16	62.28	38.64	54.50
90.00	65.98	82.50	54.90	77.42	47.66	67.21	42.55	60.00	41.22	58.13	36.07	50.86
96.00	61.27	82.50	50.83	71.69	43.99	62.04	39.89	56.25	38.64	54.50	33.81	47.68
98.19	59.72	82.50	49.50	69.80	42.79	60.34	39.00	55.00	37.78	53.28	33.06	46.62
102.00	56.23	79.30	45.56	64.25	38.56	54.38	34.61	48.81	33.67	47.48	30.11	42.46
108.00	47.26	66.65	38.23	53.92	32.31	45.56	28.95	40.82	28.15	39.70	25.11	35.41
114.00	40.10	56.55	32.41	45.70	27.34	38.56	24.47	34.50	23.78	33.54	21.17	29.86
120.00	34.32	48.40	27.71	39.07	23.35	32.93	20.87	29.43	20.28	28.60	18.02	25.42
126.00	29.60	41.75	23.88	33.68	20.10	28.35	17.95	25.31	17.44	24.59	15.47	21.82
132.00	25.71	36.26	20.73	29.23	17.43	24.58	15.55	21.93	15.11	21.30	-	-

HYBRID SILL WITH IMPROVED WEEP SYSTEM WHERE WATER PENETRATION RESISTANCE IS REQUIRED AND L/175 DEFLECTION IS NOT REQUIRED

SIGNED: 03/07/2022

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

SERIES NW WOOD 540/WD86/WOODLINE INSWING
FOLDING DOOR NON-IMPACT
DESIGN PRESSURE CHARTS

DRAWN:
A.R.

DWG NO.
08-03764

REV
-

SCALE
NTS

DATE
11/17/2021

SHEET
4 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

Chart #5

Maximum Design pressure (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		40.69		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	75.69	82.50	63.35	82.50	54.10	76.29	47.87	67.50	46.37	65.39	40.57	57.22
84.00	71.48	82.50	59.67	82.50	51.52	72.66	45.59	64.29	44.16	62.28	38.64	54.50
90.00	65.98	82.50	54.90	77.42	47.66	67.21	42.55	60.00	41.22	58.13	36.07	50.86
96.00	61.27	82.50	50.83	71.69	43.99	62.04	39.89	56.25	38.64	54.50	33.81	47.68
98.19	59.72	82.50	49.50	69.80	42.79	60.34	39.00	55.00	37.78	53.28	33.06	46.62
102.00	56.23	79.30	45.56	64.25	38.56	54.38	34.61	48.81	33.67	47.48	30.11	42.46
108.00	47.26	66.65	38.23	53.92	32.31	45.56	28.95	40.82	28.15	39.70	25.11	35.41
114.00	40.10	56.55	32.41	45.70	27.34	38.56	24.47	34.50	23.78	33.54	21.17	29.86
120.00	34.32	48.40	27.71	39.07	23.35	32.93	20.87	29.43	20.28	28.60	18.02	25.42
126.00	29.60	41.75	23.88	33.68	20.10	28.35	17.95	25.31	17.44	24.59	15.47	21.82
132.00	25.71	36.26	20.73	29.23	17.43	24.58	15.55	21.93	15.11	21.30	-	-

HYBRID SILL WHERE WATER PENETRATION IS NOT REQUIRED

Chart #7

Maximum Design pressure (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		40.69		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	35.00	67.50	35.00	67.50	35.00	62.42	35.00	55.23	35.00	53.50	35.00	46.82
84.00	35.00	67.50	35.00	67.50	35.00	59.45	35.00	52.60	35.00	50.96	35.00	44.59
90.00	35.00	67.50	35.00	63.35	35.00	54.99	35.00	49.09	35.00	47.56	35.00	41.61
96.00	35.00	67.50	35.00	58.65	35.00	50.76	35.00	46.03	35.00	44.59	34.68	39.01
98.19	35.00	67.50	35.00	57.11	35.00	49.37	35.00	45.00	35.00	43.59	33.91	38.14
102.00	35.00	64.89	35.00	52.57	35.00	44.49	35.00	39.93	34.53	38.85	30.88	34.74
108.00	35.00	54.53	35.00	44.12	33.13	37.28	29.69	33.40	28.87	32.48	25.75	28.97
114.00	35.00	46.27	33.24	37.39	28.04	31.55	25.09	28.23	24.39	27.44	21.71	24.43
120.00	35.00	39.60	28.42	31.97	23.95	26.94	21.41	24.08	20.80	23.40	18.48	20.79
126.00	30.36	34.16	24.49	27.55	20.62	23.19	18.41	20.71	17.89	20.12	15.87	17.85
132.00	26.37	29.67	21.26	23.91	17.88	20.11	15.95	17.95	15.49	17.43	-	-

SADDLE SILL WITH OPEN WEEPS WHERE WATER PENETRATION RESISTANCE IS REQUIRED

Chart #6

Maximum Design pressure (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		40.69		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	35.00	75.00	35.00	75.00	35.00	69.36	35.00	61.37	35.00	59.45	35.00	52.02
84.00	35.00	75.00	35.00	75.00	35.00	66.05	35.00	58.44	35.00	56.62	35.00	49.54
90.00	35.00	75.00	35.00	70.38	35.00	61.10	35.00	54.55	35.00	52.84	35.00	46.24
96.00	35.00	75.00	35.00	65.17	35.00	56.40	35.00	51.14	35.00	49.54	35.00	43.35
98.19	35.00	75.00	35.00	63.46	35.00	54.86	35.00	50.00	35.00	48.44	35.00	42.38
102.00	35.00	72.09	35.00	58.41	35.00	49.44	35.00	44.37	35.00	43.17	34.74	38.60
108.00	35.00	60.59	35.00	49.02	35.00	41.42	33.40	37.11	32.48	36.09	28.97	32.19
114.00	35.00	51.41	35.00	41.55	31.55	35.05	28.23	31.37	27.44	30.49	24.43	27.14
120.00	35.00	44.00	31.97	35.52	26.94	29.93	24.08	26.76	23.40	26.00	20.79	23.11
126.00	34.16	37.95	27.55	30.61	23.19	25.77	20.71	23.01	20.12	22.36	17.85	19.84
132.00	29.67	32.97	23.91	26.57	20.11	22.35	17.95	19.94	17.43	19.37	15.45	17.16

SADDLE SILL WITH OPEN WEEPS 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		40.69		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	60.00	67.50	60.00	67.50	55.49	62.42	49.09	55.23	47.56	53.50	41.61	46.82
84.00	60.00	67.50	60.00	67.50	52.84	59.45	46.76	52.60	45.29	50.96	39.63	44.59
90.00	60.00	67.50	56.31	63.35	48.88	54.99	43.64	49.09	42.28	47.56	36.99	41.61
96.00	60.00	67.50	52.14	58.65	45.12	50.76	40.91	46.03	39.63	44.59	34.68	39.01
98.19	60.00	67.50	50.77	57.11	43.89	49.37	40.00	45.00	38.75	43.59	33.91	38.14
102.00	57.68	64.89	46.73	52.57	39.55	44.49	35.49	39.93	34.53	38.85	30.88	34.74
108.00	48.47	54.53	39.21	44.12	33.13	37.28	29.69	33.40	28.87	32.48	25.75	28.97
114.00	41.13	46.27	33.24	37.39	28.04	31.55	25.09	28.23	24.39	27.44	21.71	24.43
120.00	35.20	39.60	28.42	31.97	23.95	26.94	21.41	24.08	20.80	23.40	18.48	20.79
126.00	30.36	34.16	24.49	27.55	20.62	23.19	18.41	20.71	17.89	20.12	15.87	17.85
132.00	26.37	29.67	21.26	23.91	17.88	20.11	15.95	17.95	15.49	17.43	-	-

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 WOOD 540/WD86/WOODLINE INSWING
FOLDING DOOR NON-IMPACT
DESIGN PRESSURE CHARTS

DRAWN:
A.R.

DWG NO.
08-03764

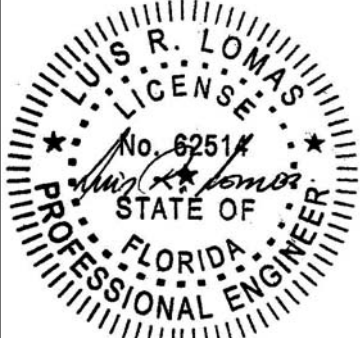
REV
-

SCALE
NTS

DATE
11/17/2021

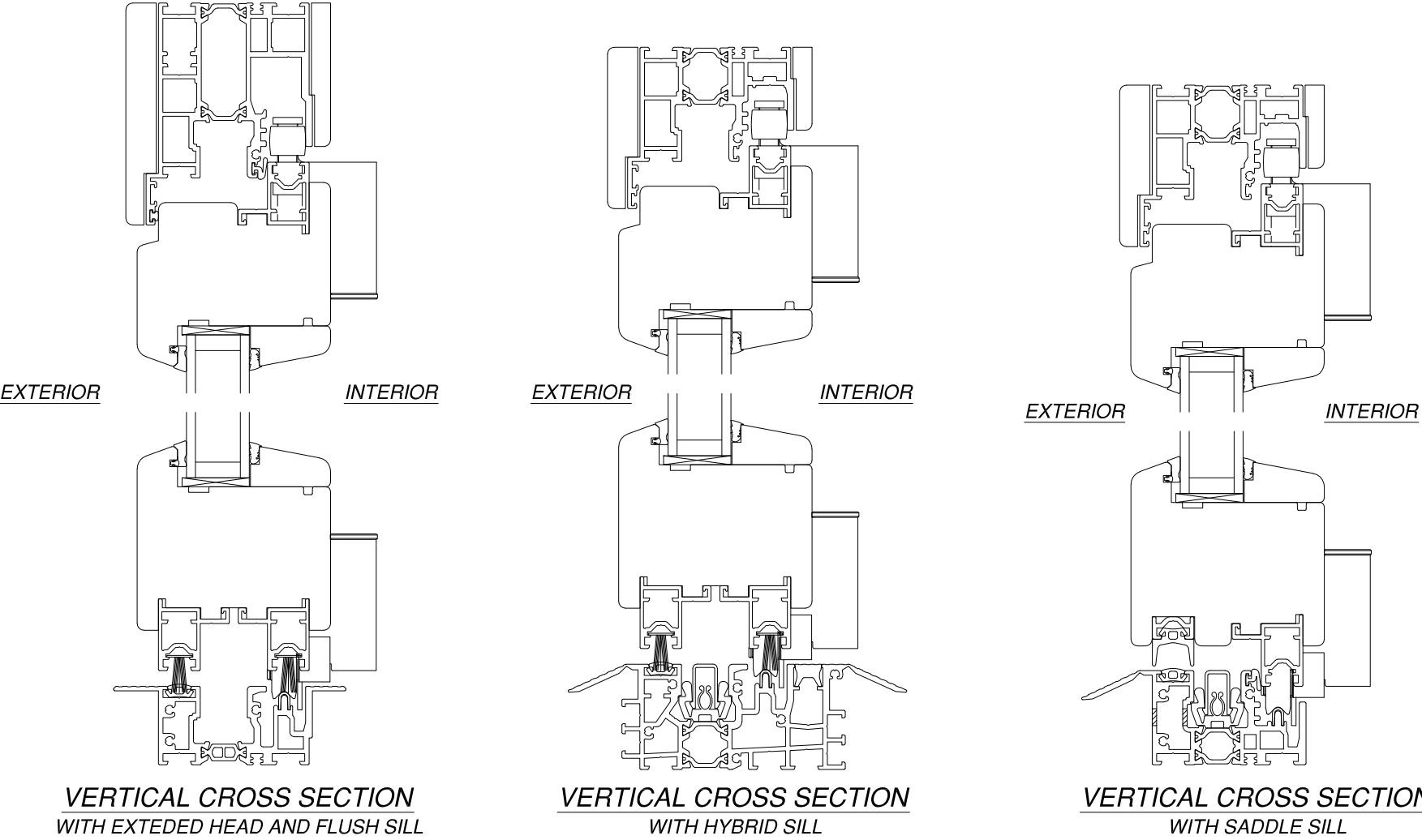
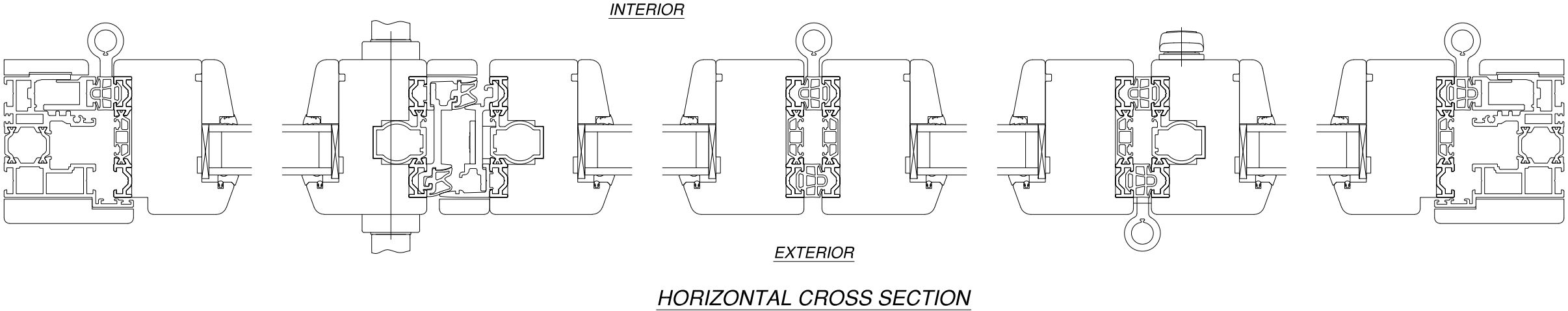
SHEET
5 OF 11

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



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

SERIES NW WOOD 540/WD86/WOODLINE INSWING
FOLDING DOOR NON-IMPACT
CROSS SECTION

DRAWN: A.R.	DWG NO. 08-03764	REV -
SCALE NTS	DATE 11/17/2021	SHEET 6 OF 11

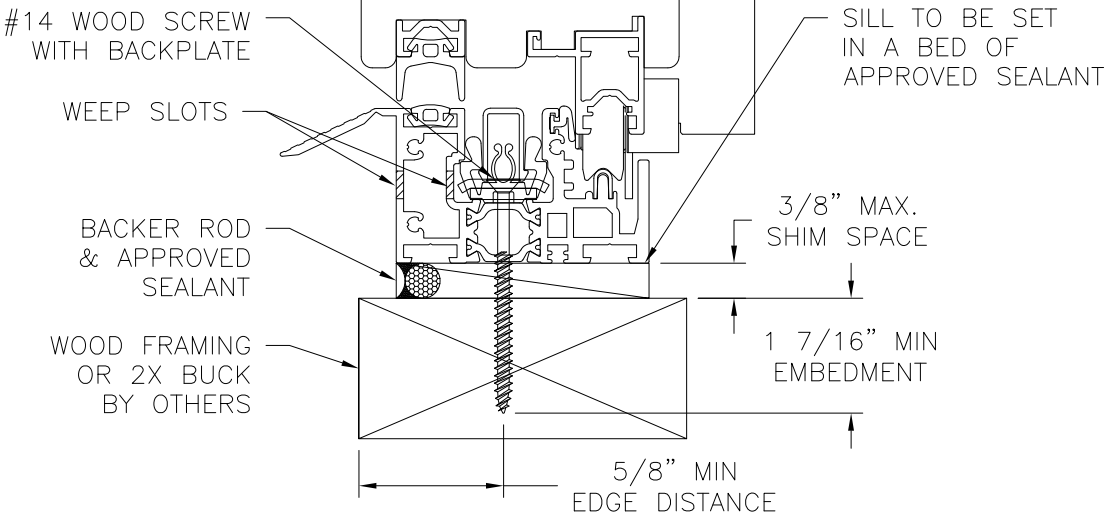
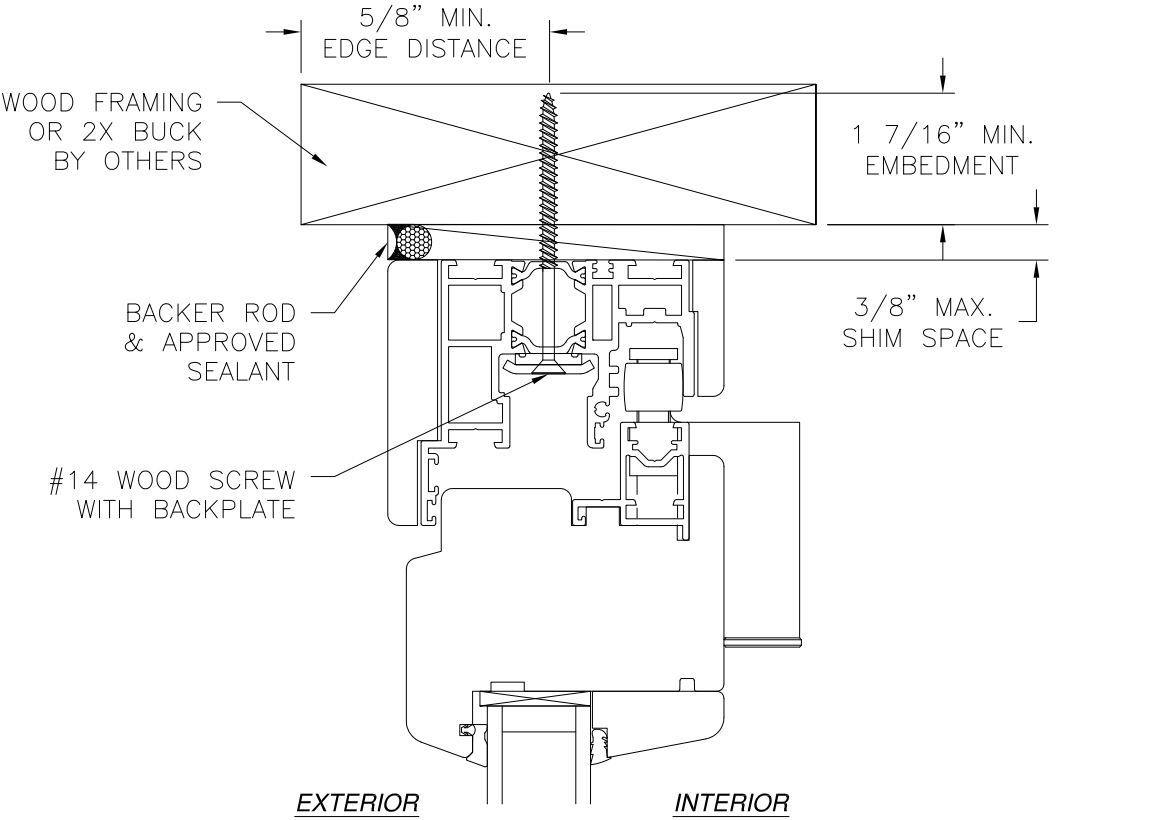
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 03/07/2022

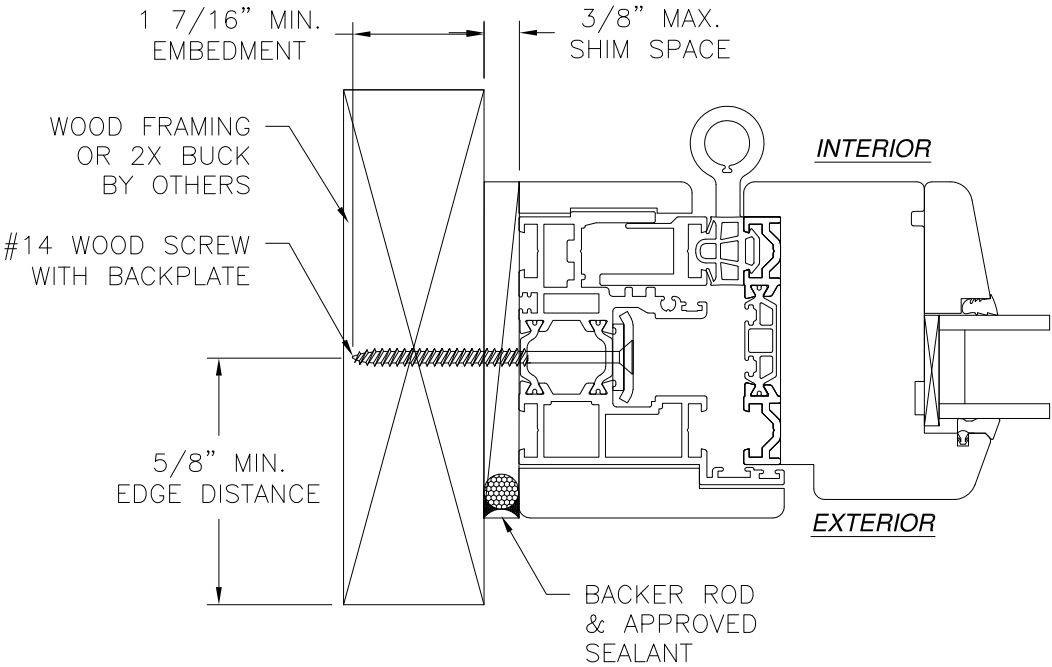


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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



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 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 WOOD 540/WD86/WOODLINE INSWING
FOLDING DOOR NON-IMPACT
INSTALLATION DETAILS

DRAWN:

A.R.

DWG NO.

08-03764

REV

-

SCALE

NTS

DATE

11/17/2021

SHEET

7

OF

11

L. ROBERTO LOMAS P.E.

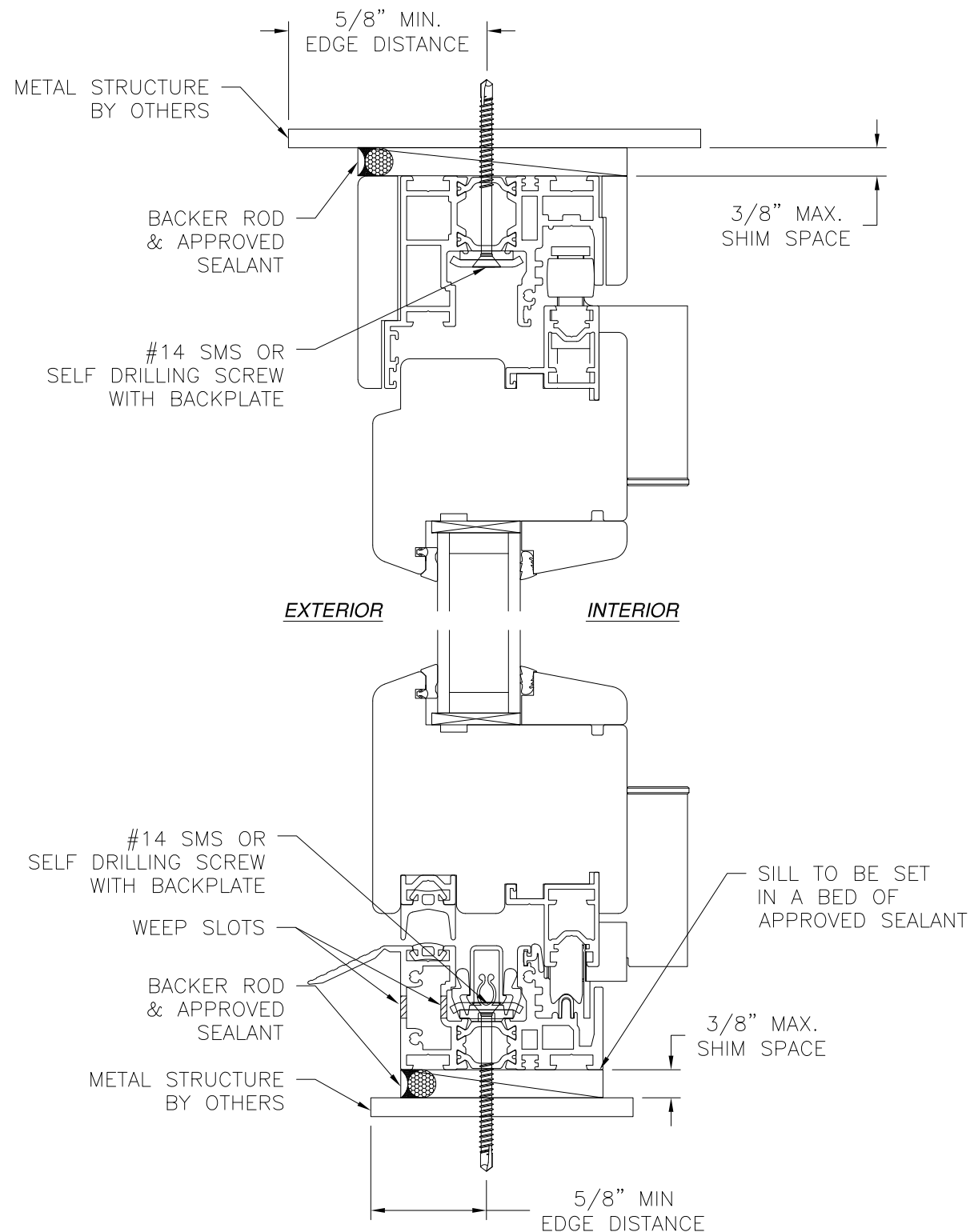
1432 WOODFORD RD LEWISVILLE, NC 27023

434-688-0609 rllomas@lrlomaspe.com

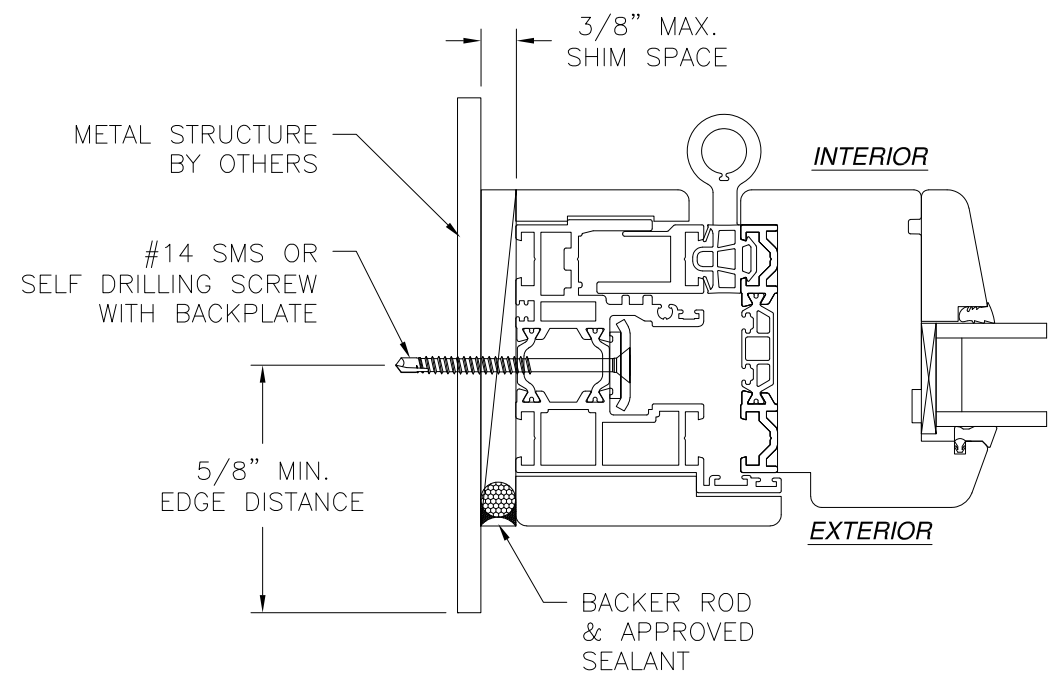


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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



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 AND ARE NOT SHOWN FOR CLARITY

SIGNED: 03/07/2022

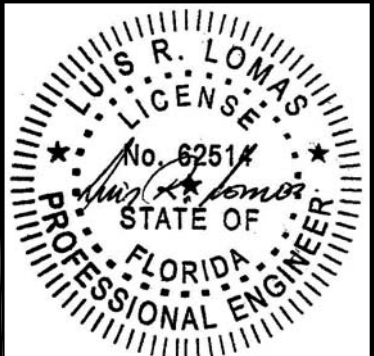
NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW WOOD 540/WD86/WOODLINE INSWING
FOLDING DOOR NON-IMPACT
INSTALLATION DETAILS

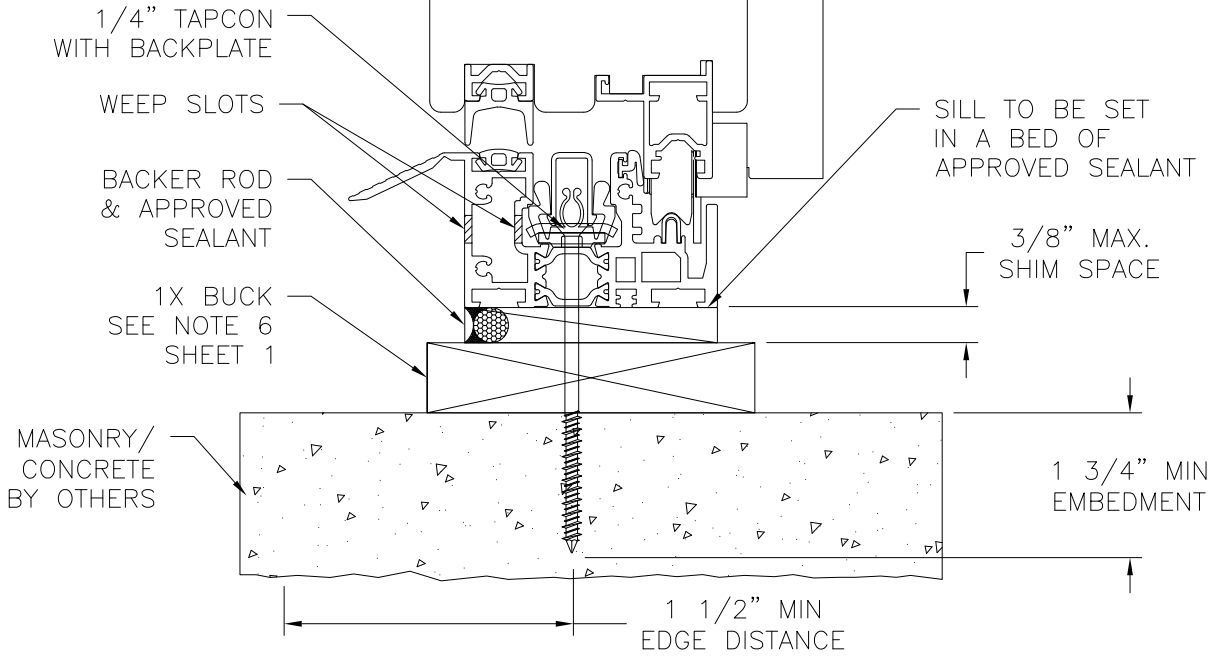
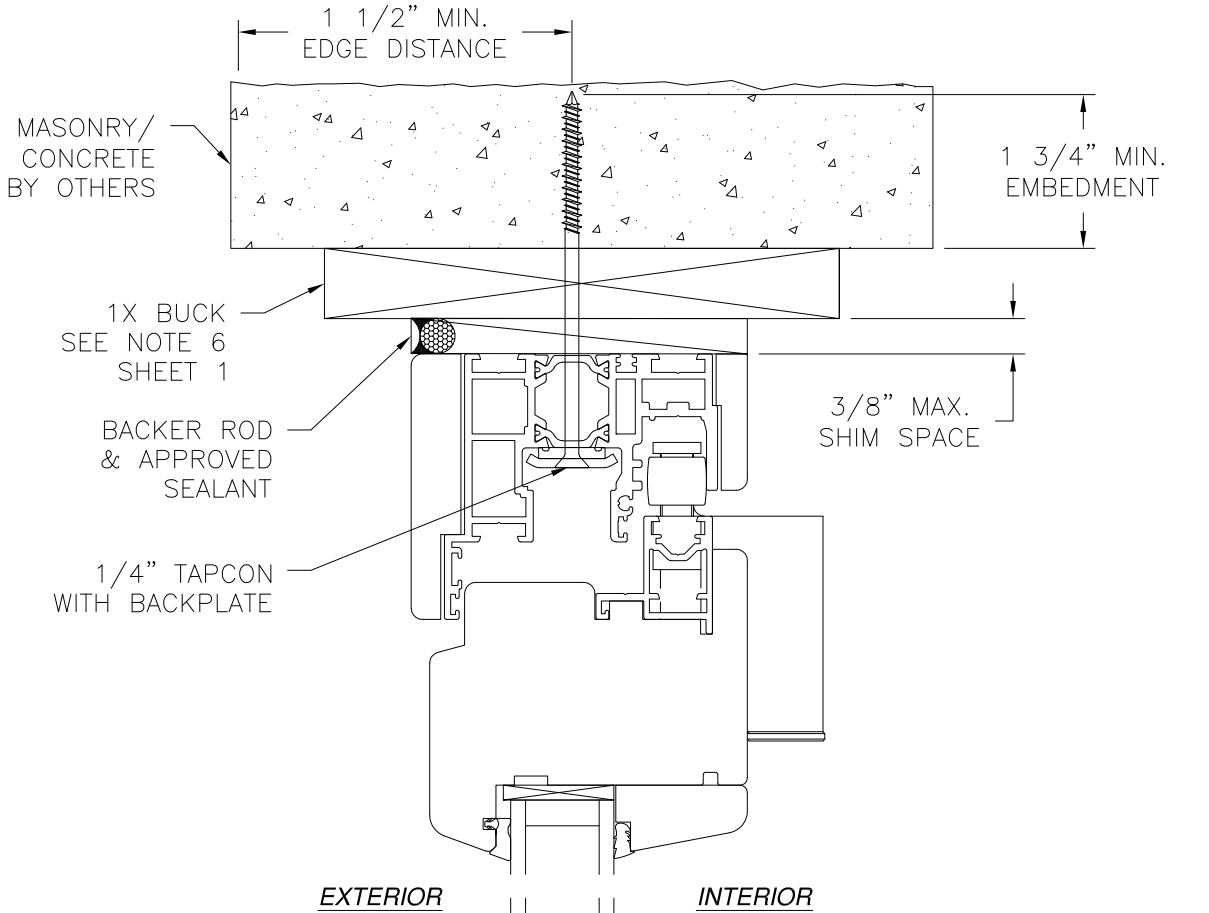
DRAWN: A.R.	DWG NO. 08-03764	REV -
SCALE NTS	DATE 11/17/2021	SHEET 8 OF 11

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

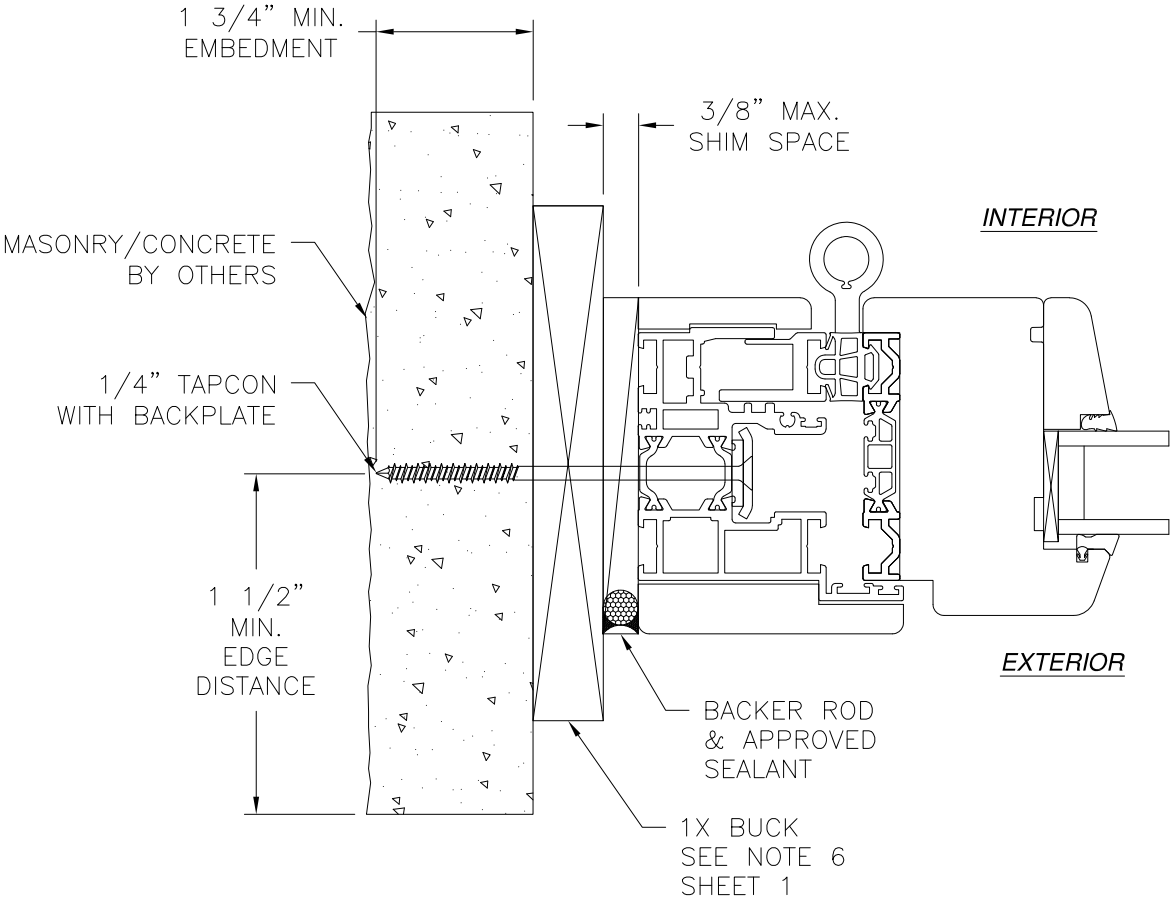


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



VERTICAL CROSS SECTION
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

SIGNED: 03/07/2022

NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW WOOD 540/WD86/WOODLINE INSWING
FOLDING DOOR NON-IMPACT
INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03764

REV -

SCALE NTS

DATE 11/17/2021

SHEET 9 OF 11

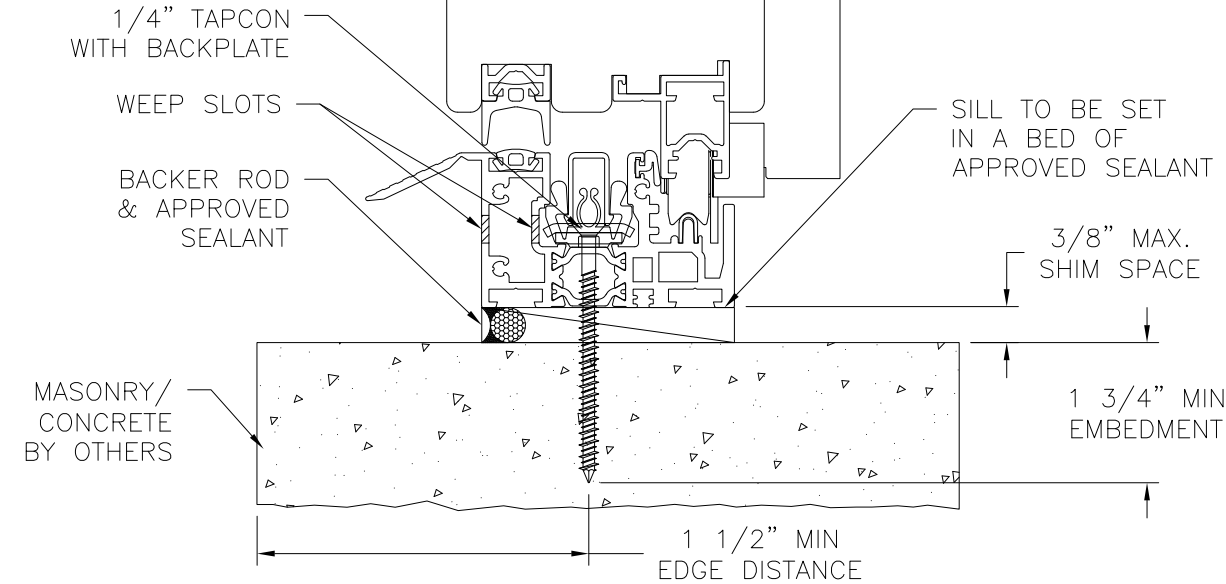
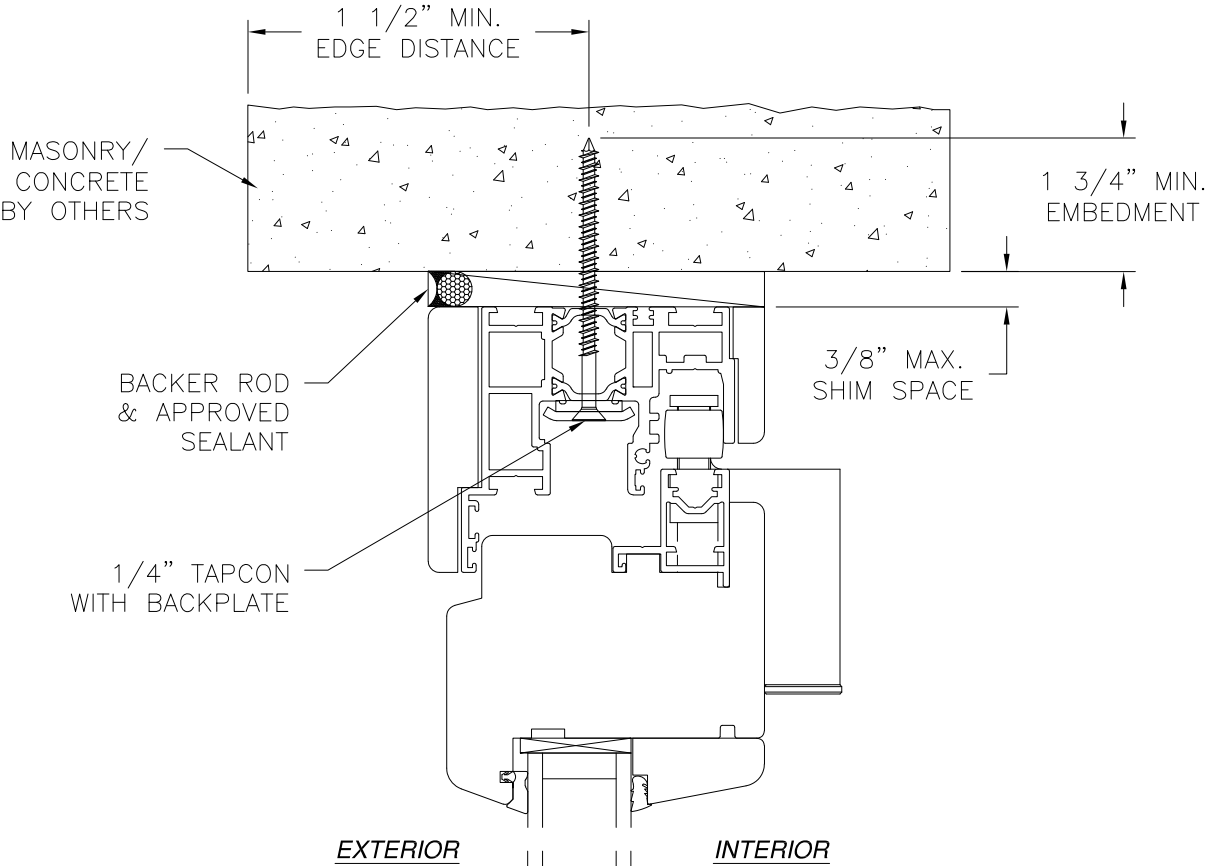
L. ROBERTO LOMAS P.E.

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

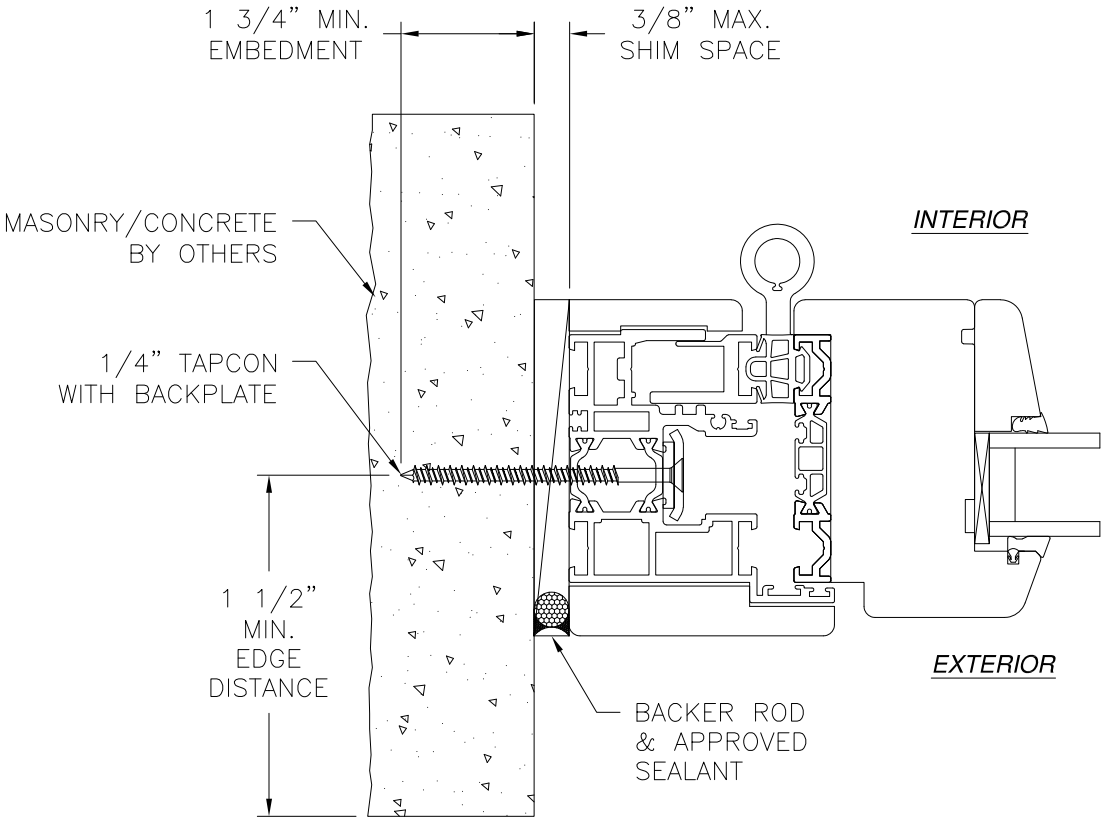


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



VERTICAL CROSS SECTION
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 WOOD 540/WD86/WOODLINE INSWING
FOLDING DOOR NON-IMPACT
INSTALLATION DETAILS

DRAWN:

A.R.

DWG NO.

08-03764

REV

-

SCALE

NTS

DATE

11/17/2021

SHEET

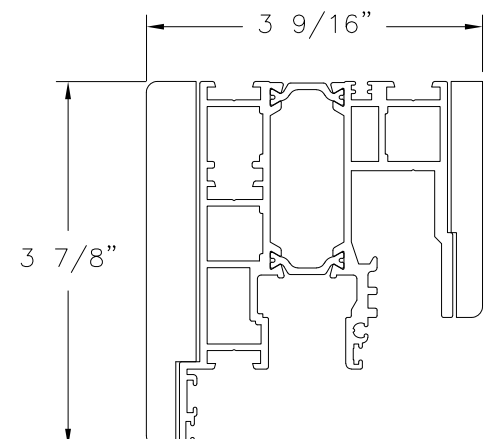
10 OF 11

L. ROBERTO LOMAS P.E.

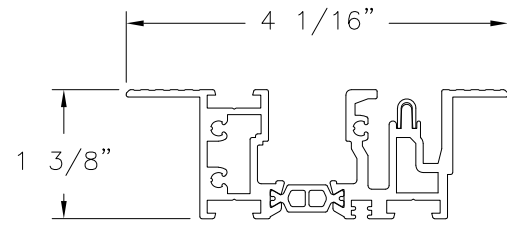
1432 WOODFORD RD LEWISVILLE, NC 27023

434-688-0609 rllomas@lrlomaspe.com

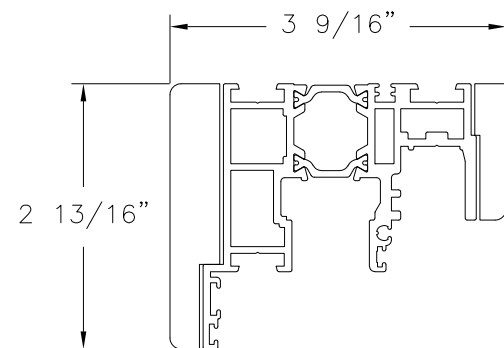
Luis R. Lomas P.E.
FL No.: 62514



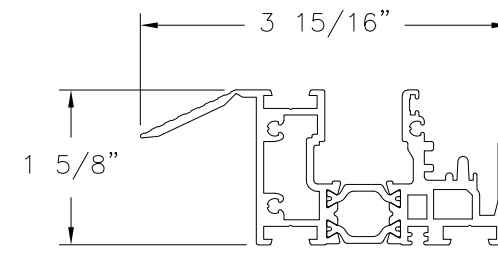
EXTENDED HEAD PROFILE
ALUMINUM 6063-T5



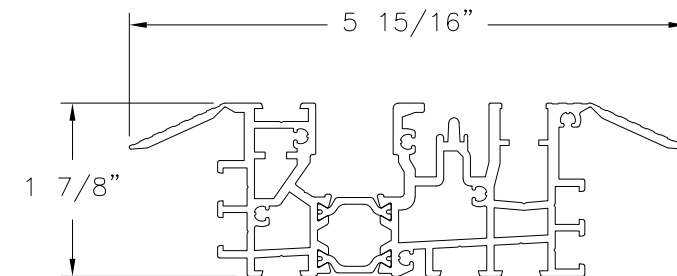
FLUSH SILL
ALUMINUM 6063-T5



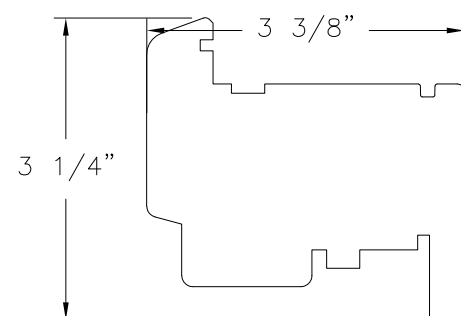
HEAD & JAMB PROFILE (5-310-04)
ALUMINUM 6063-T5



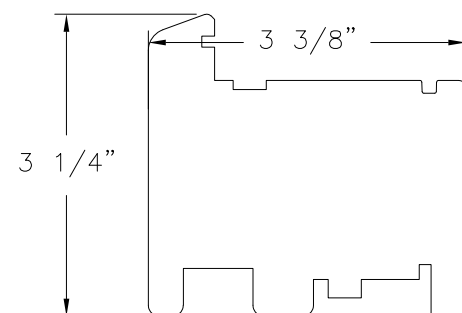
HYBRID SILL
ALUMINUM 6063-T5



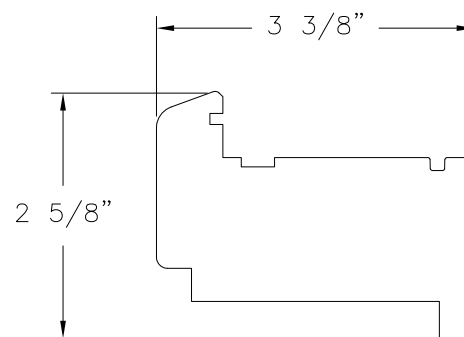
LOW PROFILE SADDLE SILL (5-310-38)
ALUMINUM 6063-T5



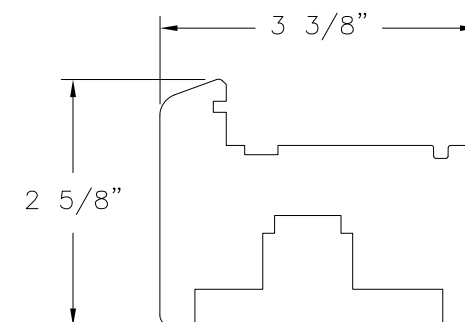
PANEL TOP RAIL PROFILE
(10-410-6181)
3-4 LAYER SOLID WOOD



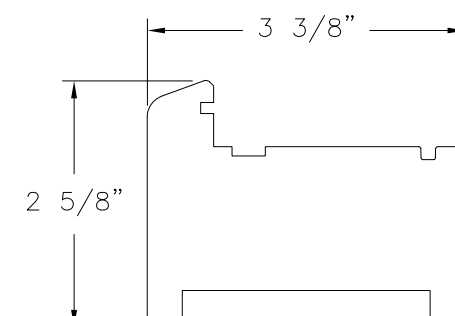
PANEL BOTTOM RAIL PROFILE
(10-420-6173)
3-4 LAYER SOLID WOOD



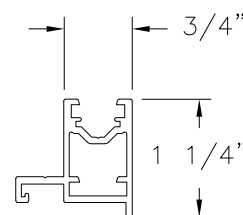
PANEL STILE PROFILE AT JAMB
(10-410-6184)
3-4 LAYER SOLID WOOD



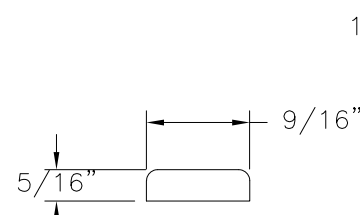
PANEL STILE PROFILE AT LOCKING SIDE (10-410-6185)
3-4 LAYER SOLID WOOD



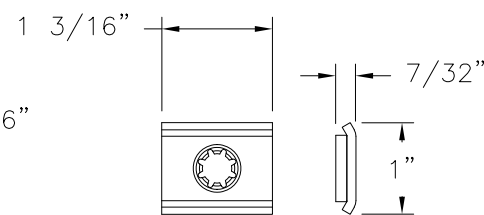
PANEL STILE PROFILE
(10-420-6177)
3-4 LAYER SOLID WOOD



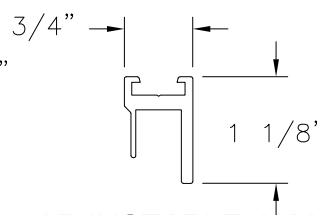
EXTENSION PROFILE (5-420-03)
ALUMINUM 6063-T5



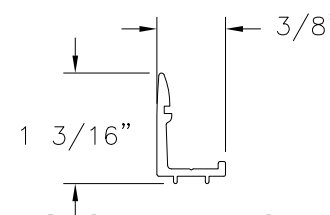
COVER PROFILE
(10-400-21)
LAMINATED WOOD



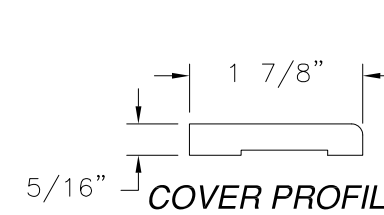
BACK PLATE (15-310-40)
STEEL



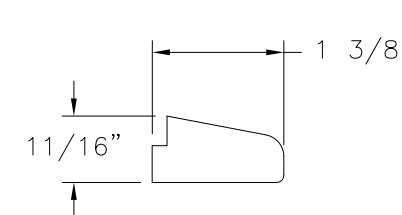
ADJUSTABLE JAMB PROFILE (5-300-01)
ALUMINUM 6063-T5



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

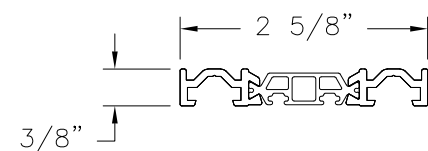


COVER PROFILE FOR ALUMINUM SIDE JAMB
(10-400-16)
SOLID WOOD

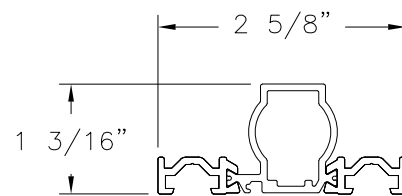


GLAZING BEAD (10-410-01)
SOLID WOOD

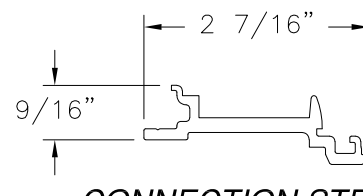
SIGNED: 03/07/2022



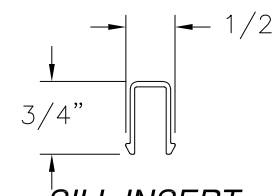
CONNECTING PROFILE (5-400-01)
ALUMINUM 6063-T5



CONNECTING PROFILE (5-400-02)
ALUMINUM 6063-T5



CONNECTION STRIP PROFILE (5-310-27)
POLYAMIDE



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

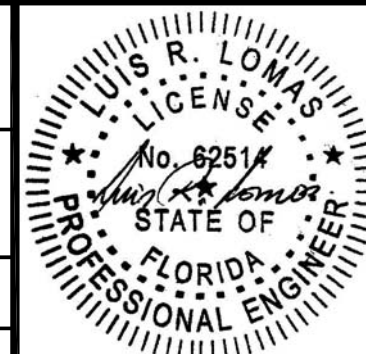
NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SERIES NW WOOD 540/WD86/WOODLINE INSWING
FOLDING DOOR NON-IMPACT
COMPONENTS

DRAWN: A.R.	DWG NO. 08-03764	REV -
SCALE NTS	DATE 11/17/2021	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