REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS AND ANCHORS	08/03/26	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. 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

SIGNED: 08/03/2026

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SHEET NO.	DESCRIPTION
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11	COMPONENTS

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

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

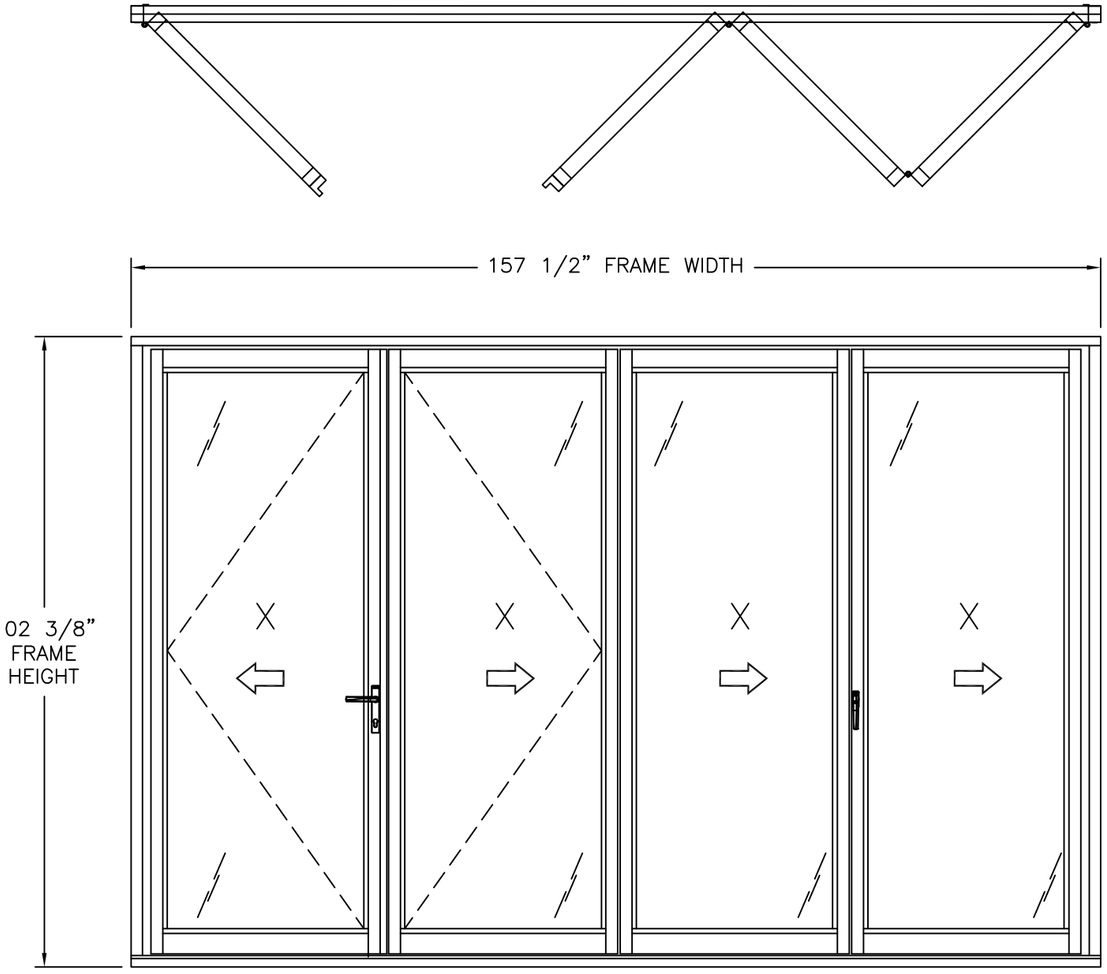
DRAWN:	DWG NO.	REV
A.R.	08–03765	A
SCALE NTS	DATE 11/17/2021	SHEET 1 OF 11

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

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS AND ANCHORS	08/03/26	R.L.



SERIES NW WOOD 540 FOLDING PANEL SYSTEM OUTSWING

INTERIOR VIEW

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 27.74 FT²

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"*

PERFORMANCE 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

PERFORMANCE SILL WITH IMPROVED WEEP SYSTEM

DESIGN PRESSURE RATING	IMPACT RATING
±45.0PSF	NONE

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

PERFORMANCE SILL WITH STANDARD WEEPS

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

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

PERFORMANCE SILL WITH IMPROVED WEEP SYSTEM

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

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

PERFORMANCE SILL

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

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED FOR ADDITIONAL SIZES SEE CHART #5 SHEET 4

SADDLE SILL WITH OPEN WEEPS

DESIGN PRESSURE RATING	IMPACT RATING
+35.0/-40.0PSF	NONE

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

SADDLE SILL WITH UNIVERSILL

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

WHERE WATER PENETRATION RESISTANCE AND L/175 DEFLECTION ARE REQUIRED FOR ADDITIONAL SIZES SEE CHART#7, SHEET 5

SADDLE SILL WITH OPEN WEEPS

DESIGN PRESSURE RATING	IMPACT RATING
+35.0/-40.0PSF	NONE

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

SADDLE SILL WITH UNIVERSILL

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

WHERE WATER PENETRATION RESISTANCE IS REQUIRED FOR ADDITIONAL SIZES SEE CHART #9, SHEET 5

SADDLE SILL OR FLUSH SILL

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

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

SIGNED: 08/03/2026

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

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

DRAWN:	DWG NO.	REV
A.R.	08-03765	A

SCALE	DATE	SHEET
NTS	11/17/2021	2 OF 11

L. ROBERTO LOMAS P.E.
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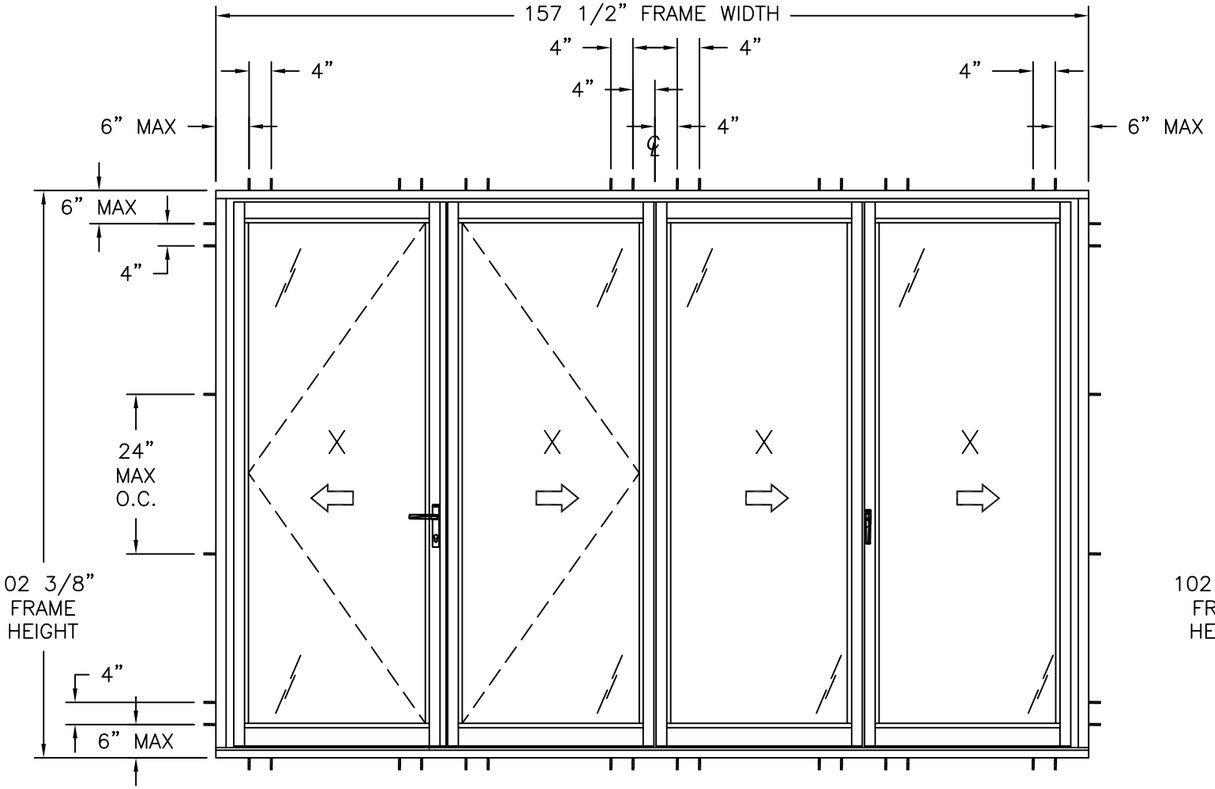
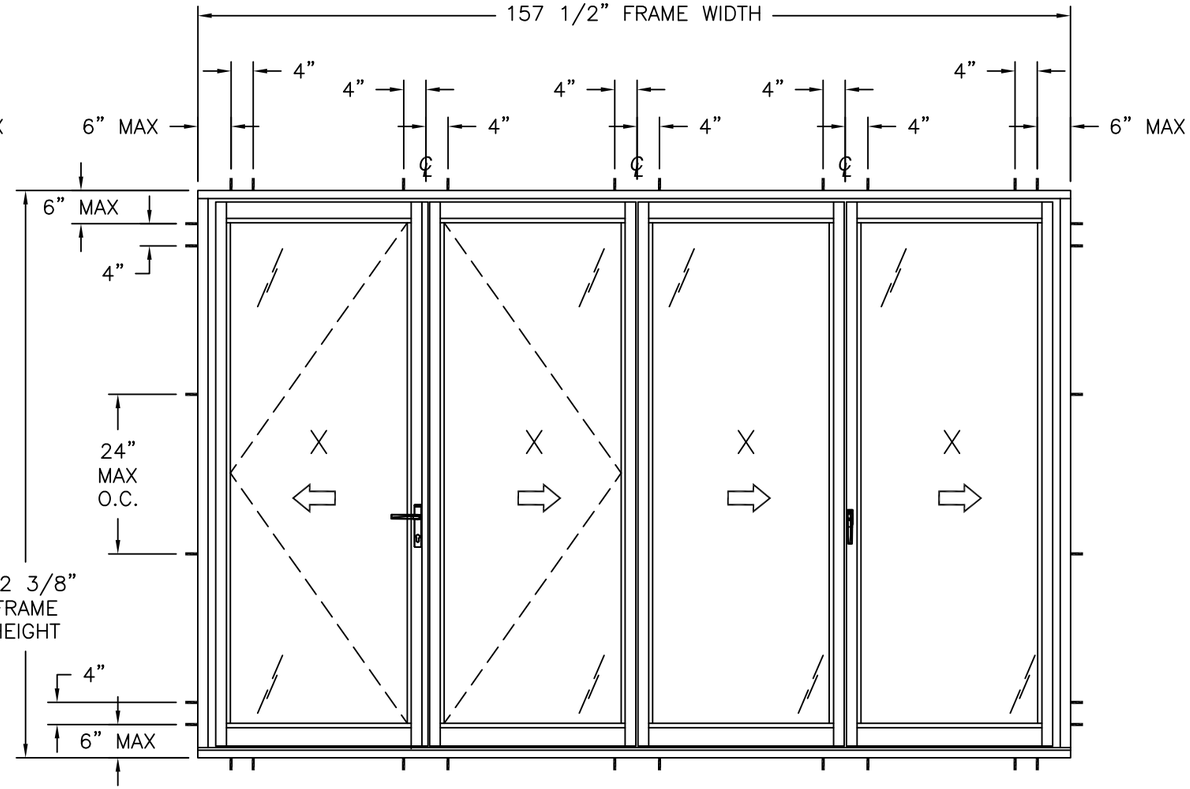
LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS AND ANCHORS	08/03/26	R.L.



ANCHORING LAYOUT FOR UNITS RATED HIGHER THAN 40PSF



ANCHORING LAYOUT FOR UNITS RATED 40PSF OR LESS

SIGNED: 08/03/2026

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

SERIES NW WOOD 540/WD86/WOODLINE OUTSWING
FOLDING DOOR NON IMPACT
ANCHORING LAYOUTS

DRAWN:	DWG NO.	REV
A.R.	08-03765	A

SCALE	DATE	SHEET
NTS	11/17/2021	3 OF 11

L. ROBERTO LOMAS P.E.
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FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS AND ANCHORS	08/03/26	R.L.

Chart #1
Design pressure rating (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	60.0	60.0	60.0	60.0	60.0	55.5	55.2	49.1	53.5	47.6	46.8	41.6
84.00	60.0	60.0	60.0	60.0	59.4	52.8	52.6	46.8	51.0	45.3	-	-
90.00	60.0	60.0	60.0	56.3	55.0	48.9	49.1	43.6	47.6	42.3	-	-
96.00	60.0	60.0	58.7	52.1	50.8	45.1	46.0	40.9	-	-	-	-
98.19	60.0	60.0	57.1	50.8	49.4	43.9	45.0	40.0	-	-	-	-
102.00	60.0	57.7	52.6	46.7	44.5	39.5	-	-	-	-	-	-
108.00	54.5	48.5	44.1	39.2	37.3	33.1	-	-	-	-	-	-
114.00	46.3	41.1	37.4	33.2	-	-	-	-	-	-	-	-
120.00	39.6	35.2	32.0	28.4	-	-	-	-	-	-	-	-
126.00	34.2	30.4	27.6	24.5	-	-	-	-	-	-	-	-
132.00	29.7	26.4	23.9	21.3	-	-	-	-	-	-	-	-
138.00	25.9	23.1	-	-	-	-	-	-	-	-	-	-
144.00	22.8	20.3	-	-	-	-	-	-	-	-	-	-

PERFORMANCE SILL WITH STANDARD WEEPS WHERE WATER PENETRATION RESISTANCE AND L/175 DEFLECTION ARE REQUIRED

Chart #2
Design pressure rating (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	67.5	67.5	67.5	67.5	62.4	62.4	55.2	55.2	53.5	53.5	46.8	46.8
84.00	67.5	67.5	67.5	67.5	59.4	59.4	52.6	52.6	51.0	51.0	-	-
90.00	67.5	67.5	63.3	63.3	55.0	55.0	49.1	49.1	47.6	47.6	-	-
96.00	67.5	67.5	58.7	58.7	50.8	50.8	46.0	46.0	-	-	-	-
98.19	67.5	67.5	57.1	57.1	49.4	49.4	45.0	45.0	-	-	-	-
102.00	64.9	64.9	52.6	52.6	44.5	44.5	-	-	-	-	-	-
108.00	54.5	54.5	44.1	44.1	37.3	37.3	-	-	-	-	-	-
114.00	46.3	46.3	37.4	37.4	-	-	-	-	-	-	-	-
120.00	39.6	39.6	32.0	32.0	-	-	-	-	-	-	-	-
126.00	34.2	34.2	27.6	27.6	-	-	-	-	-	-	-	-
132.00	29.7	29.7	23.9	23.9	-	-	-	-	-	-	-	-
138.00	25.9	25.9	-	-	-	-	-	-	-	-	-	-
144.00	22.8	22.8	-	-	-	-	-	-	-	-	-	-

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

Chart #3
Design pressure rating (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	60.0	58.5	60.0	58.5	60.0	54.1	60.0	47.9	60.0	46.4	57.2	40.6
84.00	60.0	58.5	60.0	58.5	60.0	51.5	60.0	45.6	60.0	44.2	-	-
90.00	60.0	58.5	60.0	54.9	60.0	47.7	60.0	42.5	58.1	41.2	-	-
96.00	60.0	58.5	60.0	50.8	60.0	44.0	56.3	39.9	-	-	-	-
98.19	60.0	58.5	60.0	49.5	60.0	42.8	55.0	39.0	-	-	-	-
102.00	60.0	56.2	60.0	45.6	54.4	38.6	-	-	-	-	-	-
108.00	60.0	47.3	53.9	38.2	45.6	32.3	-	-	-	-	-	-
114.00	56.6	40.1	45.7	32.4	-	-	-	-	-	-	-	-
120.00	48.4	34.3	39.1	27.7	-	-	-	-	-	-	-	-
126.00	41.7	29.6	33.7	23.9	-	-	-	-	-	-	-	-
132.00	36.3	25.7	29.2	20.7	-	-	-	-	-	-	-	-
138.00	31.7	22.5	-	-	-	-	-	-	-	-	-	-
144.00	27.9	19.8	-	-	-	-	-	-	-	-	-	-

PERFORMANCE SILL WITH STANDARD WEEPS WHERE WATER PENETRATION RESISTANCE IS REQUIRED

Chart #4
Design pressure rating (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	82.5	58.5	82.5	58.5	76.3	54.1	67.5	47.9	65.4	46.4	57.2	40.6
84.00	82.5	58.5	82.5	58.5	72.7	51.5	64.3	45.6	62.3	44.2	-	-
90.00	82.5	58.5	77.4	54.9	67.2	47.7	60.0	42.5	58.1	41.2	-	-
96.00	82.5	58.5	71.7	50.8	62.0	44.0	56.3	39.9	-	-	-	-
98.19	82.5	58.5	69.8	49.5	60.3	42.8	55.0	39.0	-	-	-	-
102.00	79.3	56.2	64.3	45.6	54.4	38.6	-	-	-	-	-	-
108.00	66.6	47.3	53.9	38.2	45.6	32.3	-	-	-	-	-	-
114.00	56.6	40.1	45.7	32.4	-	-	-	-	-	-	-	-
120.00	48.4	34.3	39.1	27.7	-	-	-	-	-	-	-	-
126.00	41.7	29.6	33.7	23.9	-	-	-	-	-	-	-	-
132.00	36.3	25.7	29.2	20.7	-	-	-	-	-	-	-	-
138.00	31.7	22.5	-	-	-	-	-	-	-	-	-	-
144.00	27.9	19.8	-	-	-	-	-	-	-	-	-	-

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

Chart #5
Design pressure rating (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	82.5	58.5	82.5	58.5	76.3	54.1	67.5	47.9	65.4	46.4	57.2	40.6
84.00	82.5	58.5	82.5	58.5	72.7	51.5	64.3	45.6	62.3	44.2	-	-
90.00	82.5	58.5	77.4	54.9	67.2	47.7	60.0	42.5	58.1	41.2	-	-
96.00	82.5	58.5	71.7	50.8	62.0	44.0	56.3	39.9	-	-	-	-
98.19	82.5	58.5	69.8	49.5	60.3	42.8	55.0	39.0	-	-	-	-
102.00	79.3	56.2	64.3	45.6	54.4	38.6	-	-	-	-	-	-
108.00	66.6	47.3	53.9	38.2	45.6	32.3	-	-	-	-	-	-
114.00	56.6	40.1	45.7	32.4	-	-	-	-	-	-	-	-
120.00	48.4	34.3	39.1	27.7	-	-	-	-	-	-	-	-
126.00	41.7	29.6	33.7	23.9	-	-	-	-	-	-	-	-
132.00	36.3	25.7	29.2	20.7	-	-	-	-	-	-	-	-
138.00	31.7	22.5	-	-	-	-	-	-	-	-	-	-
144.00	27.9	19.8	-	-	-	-	-	-	-	-	-	-

PERFORMANCE SILL WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED

SIGNED: 08/03/2026

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

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

DRAWN:	DWG NO.	REV
A.R.	08-03765	A
SCALE NTS	DATE 11/17/2021	SHEET 4 OF 11

L. ROBERTO LOMAS P.E.
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LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

Chart #6
Design pressure rating (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	35.0	60.0	35.0	60.0	35.0	55.5	35.0	49.1	35.0	47.6	35.0	41.6
84.00	35.0	60.0	35.0	60.0	35.0	52.8	35.0	46.8	35.0	45.3	-	-
90.00	35.0	60.0	35.0	56.3	35.0	48.9	35.0	43.6	35.0	42.3	-	-
96.00	35.0	60.0	35.0	52.1	35.0	45.1	35.0	40.9	-	-	-	-
98.19	35.0	60.0	35.0	50.8	35.0	43.9	35.0	40.0	-	-	-	-
102.00	35.0	57.7	35.0	46.7	35.0	39.5	-	-	-	-	-	-
108.00	35.0	48.5	35.0	39.2	35.0	33.1	-	-	-	-	-	-
114.00	35.0	41.1	35.0	33.2	-	-	-	-	-	-	-	-
120.00	35.0	35.2	35.0	28.4	-	-	-	-	-	-	-	-
126.00	35.0	30.4	30.6	24.5	-	-	-	-	-	-	-	-
132.00	33.0	26.4	26.6	21.3	-	-	-	-	-	-	-	-
138.00	28.8	23.1	-	-	-	-	-	-	-	-	-	-
144.00	25.3	20.3	-	-	-	-	-	-	-	-	-	-

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

Chart #7
Design pressure rating (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	60.0	60.0	60.0	60.0	60.0	55.5	55.2	49.1	53.5	47.6	46.8	41.6
84.00	60.0	60.0	60.0	60.0	59.4	52.8	52.6	46.8	51.0	45.3	-	-
90.00	60.0	60.0	60.0	56.3	55.0	48.9	49.1	43.6	47.6	42.3	-	-
96.00	60.0	60.0	58.7	52.1	50.8	45.1	46.0	40.9	-	-	-	-
98.19	60.0	60.0	57.1	50.8	49.4	43.9	45.0	40.0	-	-	-	-
102.00	60.0	57.7	52.6	46.7	44.5	39.5	-	-	-	-	-	-
108.00	54.5	48.5	44.1	39.2	37.3	33.1	-	-	-	-	-	-
114.00	46.3	41.1	37.4	33.2	-	-	-	-	-	-	-	-
120.00	39.6	35.2	32.0	28.4	-	-	-	-	-	-	-	-
126.00	34.2	30.4	27.6	24.5	-	-	-	-	-	-	-	-
132.00	29.7	26.4	23.9	21.3	-	-	-	-	-	-	-	-
138.00	25.9	23.1	-	-	-	-	-	-	-	-	-	-
144.00	22.8	20.3	-	-	-	-	-	-	-	-	-	-

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

Chart #8
Design pressure rating (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	35.0	67.5	35.0	67.5	35.0	62.4	35.0	55.2	35.0	53.5	35.0	46.8
84.00	35.0	67.5	35.0	67.5	35.0	59.4	35.0	52.6	35.0	51.0	-	-
90.00	35.0	67.5	35.0	63.3	35.0	55.0	35.0	49.1	35.0	47.6	-	-
96.00	35.0	67.5	35.0	58.7	35.0	50.8	35.0	46.0	-	-	-	-
98.19	35.0	67.5	35.0	57.1	35.0	49.4	35.0	45.0	-	-	-	-
102.00	35.0	64.9	35.0	52.6	35.0	44.5	-	-	-	-	-	-
108.00	35.0	54.5	35.0	44.1	35.0	37.3	-	-	-	-	-	-
114.00	35.0	46.3	35.0	37.4	-	-	-	-	-	-	-	-
120.00	35.0	39.6	32.0	32.0	-	-	-	-	-	-	-	-
126.00	34.2	34.2	27.6	27.6	-	-	-	-	-	-	-	-
132.00	29.7	29.7	23.9	23.9	-	-	-	-	-	-	-	-
138.00	25.9	25.9	-	-	-	-	-	-	-	-	-	-
144.00	22.8	22.8	-	-	-	-	-	-	-	-	-	-

SADDLE SILL WITH OPEN WEEPS WHERE WATER PENETRATION RESISTANCE IS REQUIRED

Chart #9
Design pressure rating (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	60.0	60.0	60.0	60.0	60.0	55.5	55.2	49.1	53.5	47.6	46.8	41.6
84.00	60.0	60.0	60.0	60.0	59.4	52.8	52.6	46.8	51.0	45.3	-	-
90.00	60.0	60.0	60.0	56.3	55.0	48.9	49.1	43.6	47.6	42.3	-	-
96.00	60.0	60.0	58.7	52.1	50.8	45.1	46.0	40.9	-	-	-	-
98.19	60.0	60.0	57.1	50.8	49.4	43.9	45.0	40.0	-	-	-	-
102.00	60.0	57.7	52.6	46.7	44.5	39.5	-	-	-	-	-	-
108.00	54.5	48.5	44.1	39.2	37.3	33.1	-	-	-	-	-	-
114.00	46.3	41.1	37.4	33.2	-	-	-	-	-	-	-	-
120.00	39.6	35.2	32.0	28.4	-	-	-	-	-	-	-	-
126.00	34.2	30.4	27.6	24.5	-	-	-	-	-	-	-	-
132.00	29.7	26.4	23.9	21.3	-	-	-	-	-	-	-	-
138.00	25.9	23.1	-	-	-	-	-	-	-	-	-	-
144.00	22.8	20.3	-	-	-	-	-	-	-	-	-	-

SADDLE SILL WITH UNIVERSILL WHERE WATER PENETRATION RESISTANCE IS REQUIRED

Chart #10
Design pressure rating (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	67.5	60.0	67.5	60.0	62.4	55.5	55.2	49.1	53.5	47.6	46.8	41.6
84.00	67.5	60.0	67.5	60.0	59.4	52.8	52.6	46.8	51.0	45.3	-	-
90.00	67.5	60.0	63.3	56.3	55.0	48.9	49.1	43.6	47.6	42.3	-	-
96.00	67.5	60.0	58.7	52.1	50.8	45.1	46.0	40.9	-	-	-	-
98.19	67.5	60.0	57.1	50.8	49.4	43.9	45.0	40.0	-	-	-	-
102.00	64.9	57.7	52.6	46.7	44.5	39.5	-	-	-	-	-	-
108.00	54.5	48.5	44.1	39.2	37.3	33.1	-	-	-	-	-	-
114.00	46.3	41.1	37.4	33.2	-	-	-	-	-	-	-	-
120.00	39.6	35.2	32.0	28.4	-	-	-	-	-	-	-	-
126.00	34.2	30.4	27.6	24.5	-	-	-	-	-	-	-	-
132.00	29.7	26.4	23.9	21.3	-	-	-	-	-	-	-	-
138.00	25.9	23.1	-	-	-	-	-	-	-	-	-	-
144.00	22.8	20.3	-	-	-	-	-	-	-	-	-	-

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS AND ANCHORS	08/03/26	R.L.

SIGNED: 08/03/2026

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

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

DRAWN:	DWG NO.	REV
A.R.	08-03765	A

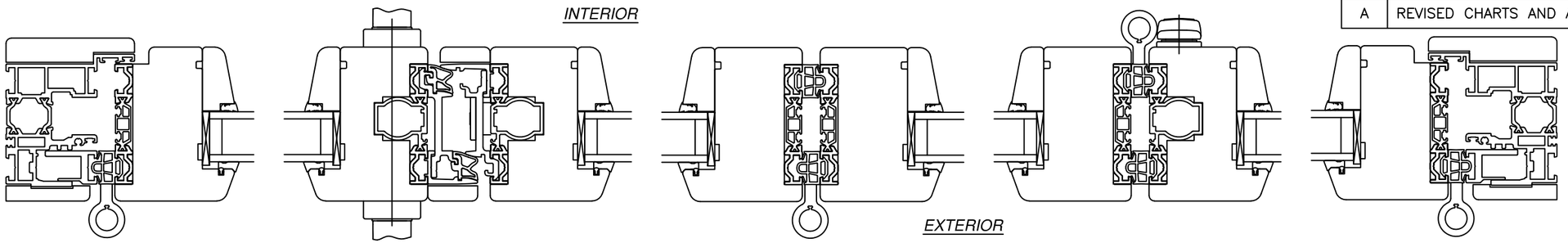
SCALE NTS | DATE 11/17/2021 | SHEET 5 OF 11

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

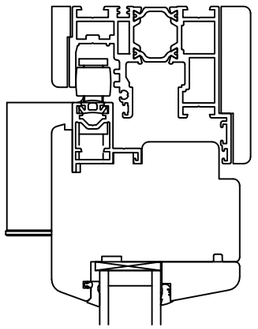
LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

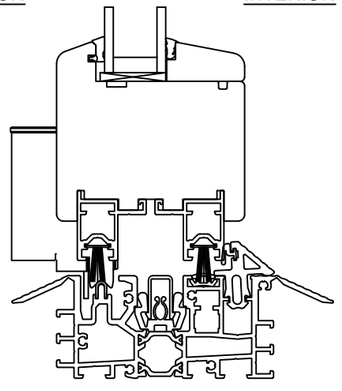
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS AND ANCHORS	08/03/26	R.L.



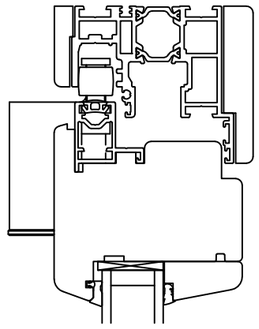
HORIZONTAL CROSS SECTION



EXTERIOR INTERIOR



VERTICAL CROSS SECTION
WITH UNIVERSILL



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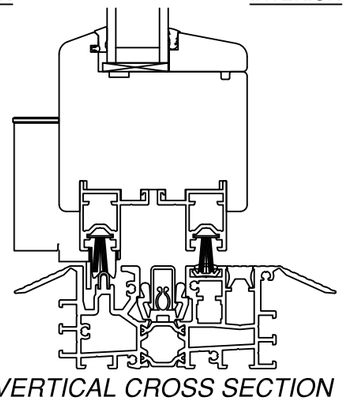
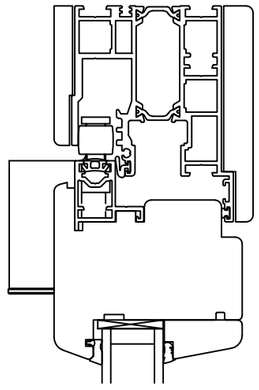
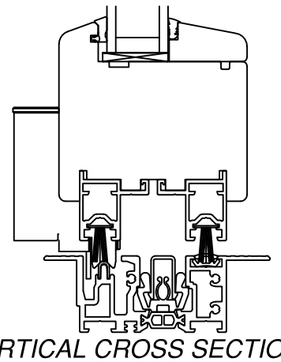


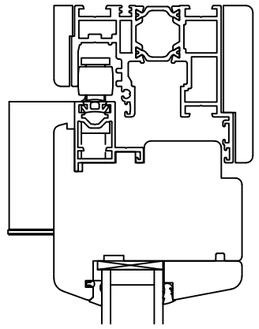
VERTICAL CROSS SECTION
WITH SADDLE SILL



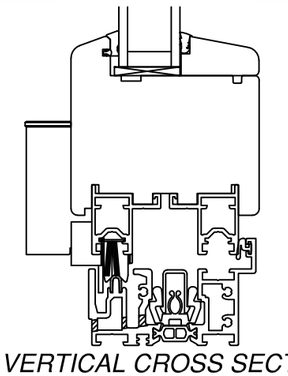
EXTERIOR INTERIOR



VERTICAL CROSS SECTION
WITH EXTENDED HEAD AND FLUSH SILL



EXTERIOR INTERIOR



VERTICAL CROSS SECTION
WITH PERFORMANCE SILL

SIGNED: 08/03/2026

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

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

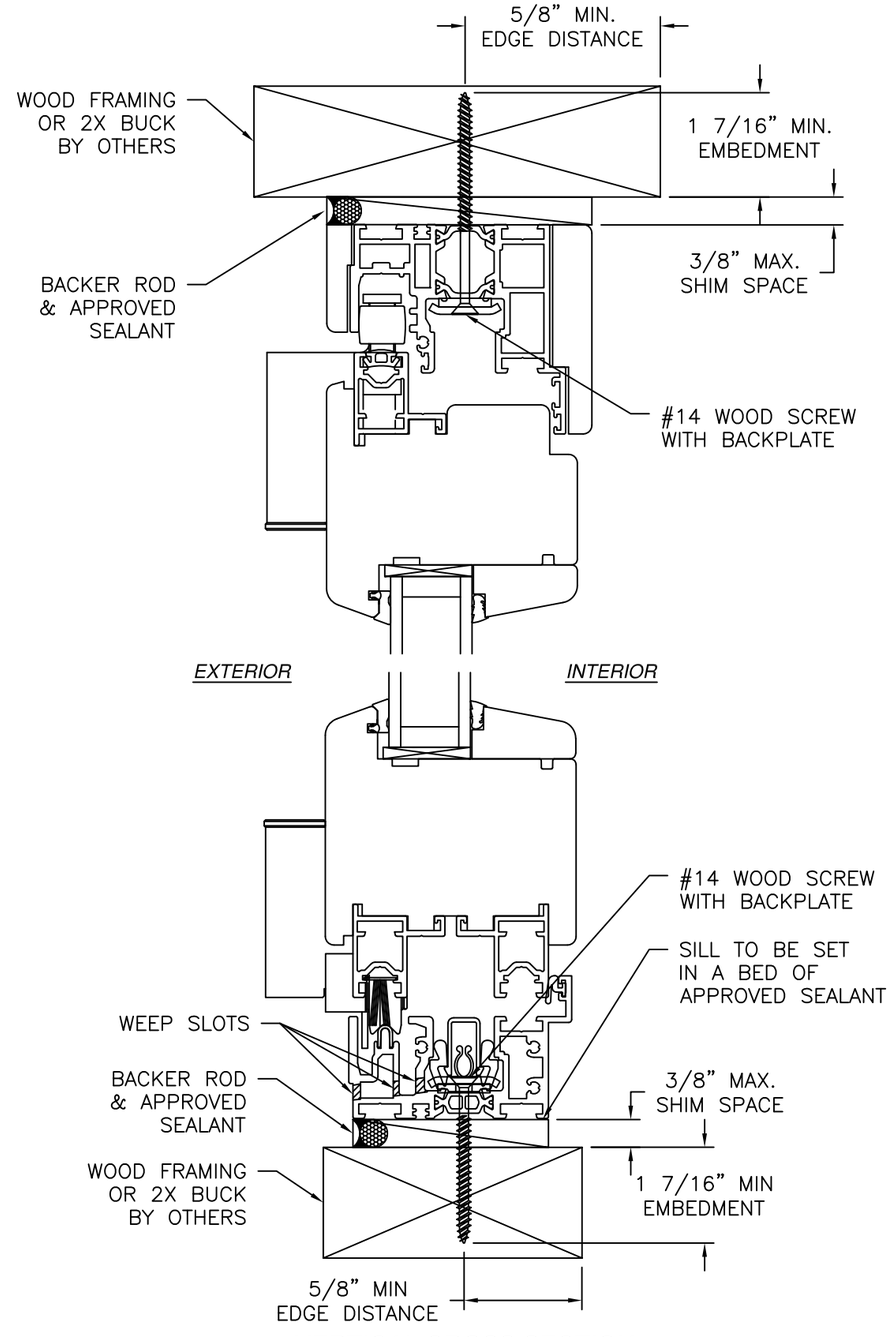
DRAWN:	DWG NO.	REV
A.R.	08-03765	A
SCALE NTS	DATE 11/17/2021	SHEET 6 OF 11

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

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

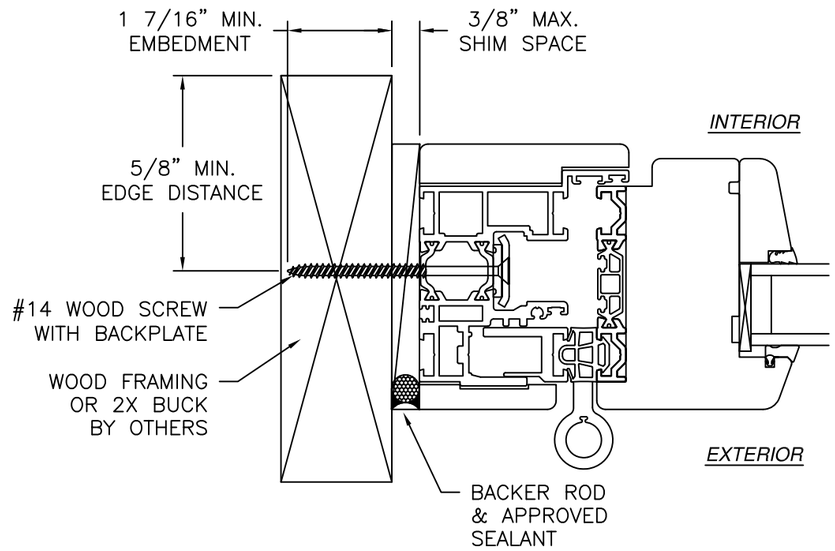
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS AND ANCHORS	08/03/26	R.L.



VERTICAL CROSS SECTION

WOOD FRAMING OR 2X BUCK INSTALLATION
PERFORMANCE 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: 08/03/2026

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

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

DRAWN:	DWG NO.	REV
A.R.	08-03765	A

SCALE	DATE	SHEET
NTS	11/17/2021	7 OF 11

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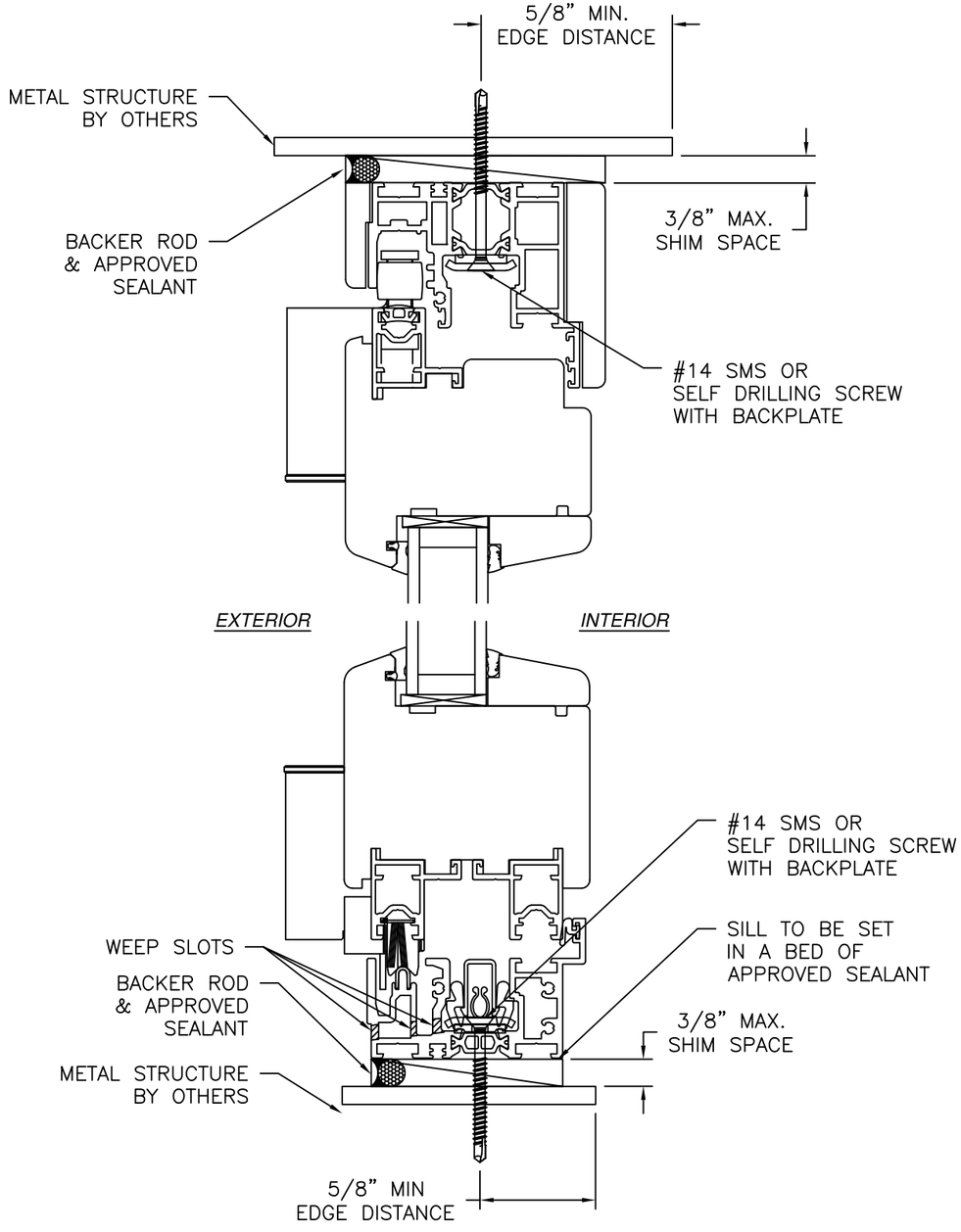
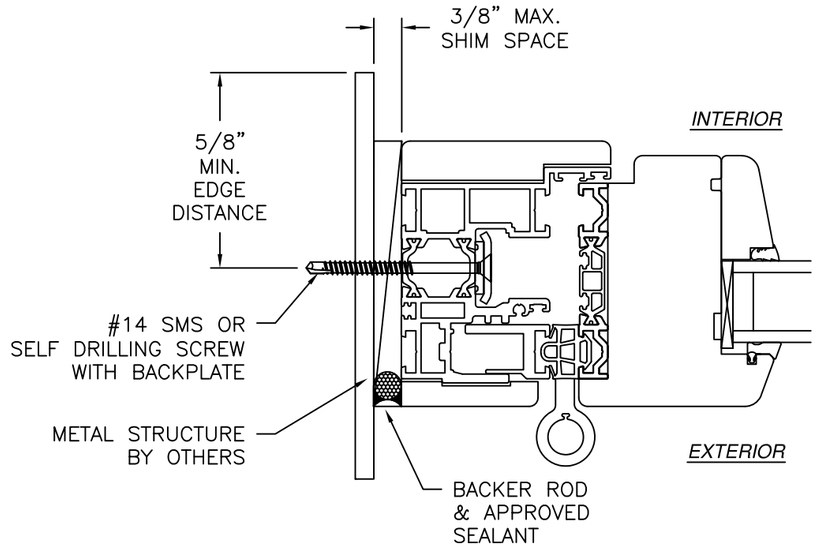
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS AND ANCHORS	08/03/26	R.L.



VERTICAL CROSS SECTION

METAL STRUCTURE INSTALLATION

PERFORMANCE 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: 08/03/2026

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

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

DRAWN:	DWG NO.	REV
A.R.	08-03765	A
SCALE NTS	DATE 11/17/2021	SHEET 8 OF 11

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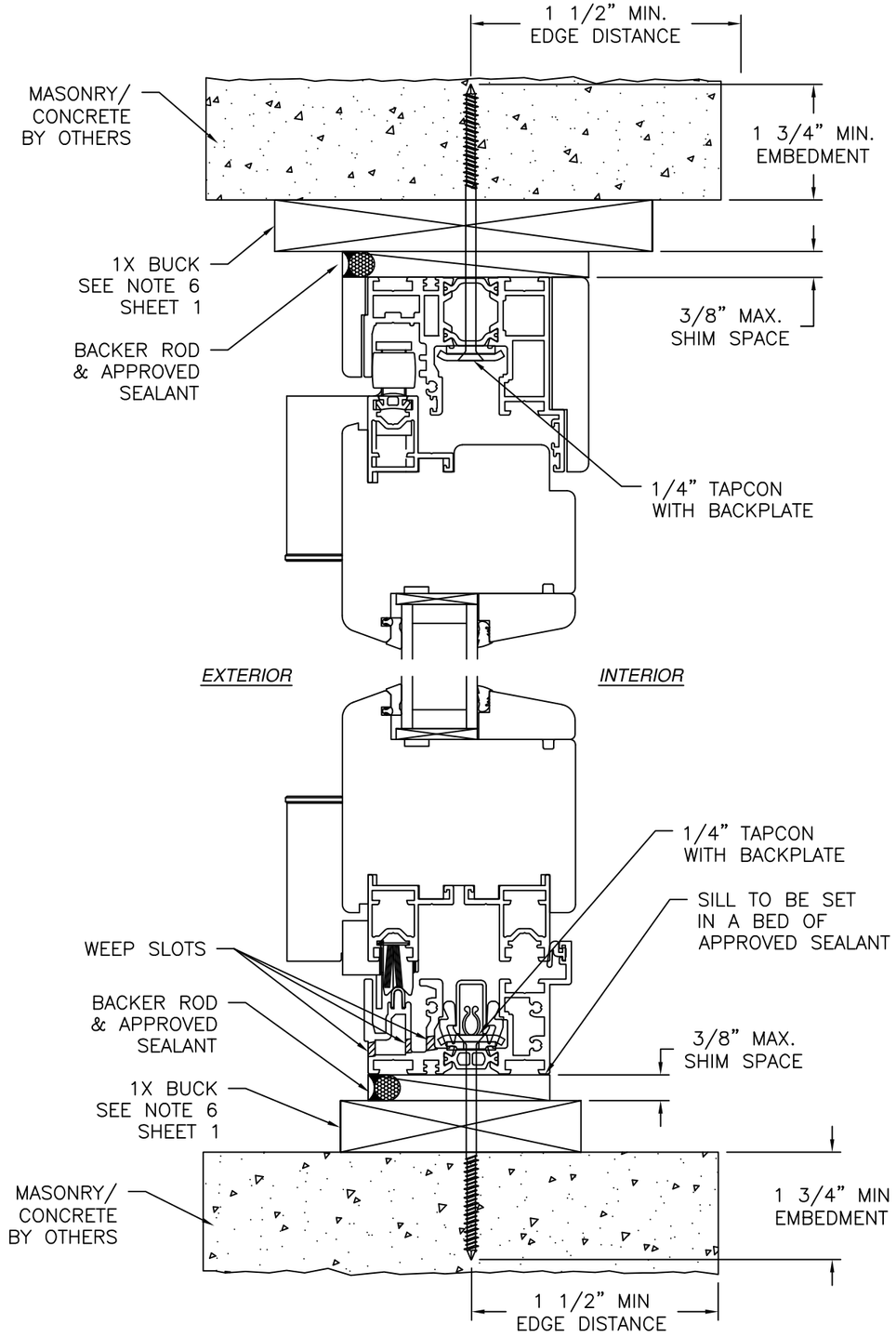
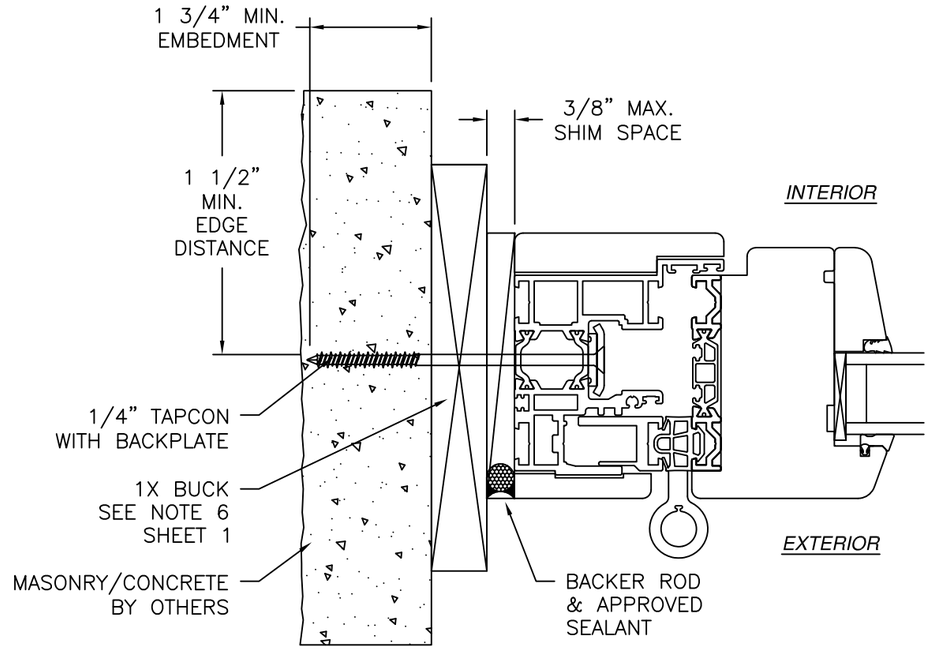
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS AND ANCHORS	08/03/26	R.L.



VERTICAL CROSS SECTION

MASONRY/CONCRETE W/1X BUCK INSTALLATION
PERFORMANCE 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: 08/03/2026

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

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

DRAWN:	DWG NO.	REV
A.R.	08-03765	A

SCALE	DATE	SHEET
NTS	11/17/2021	9 OF 11

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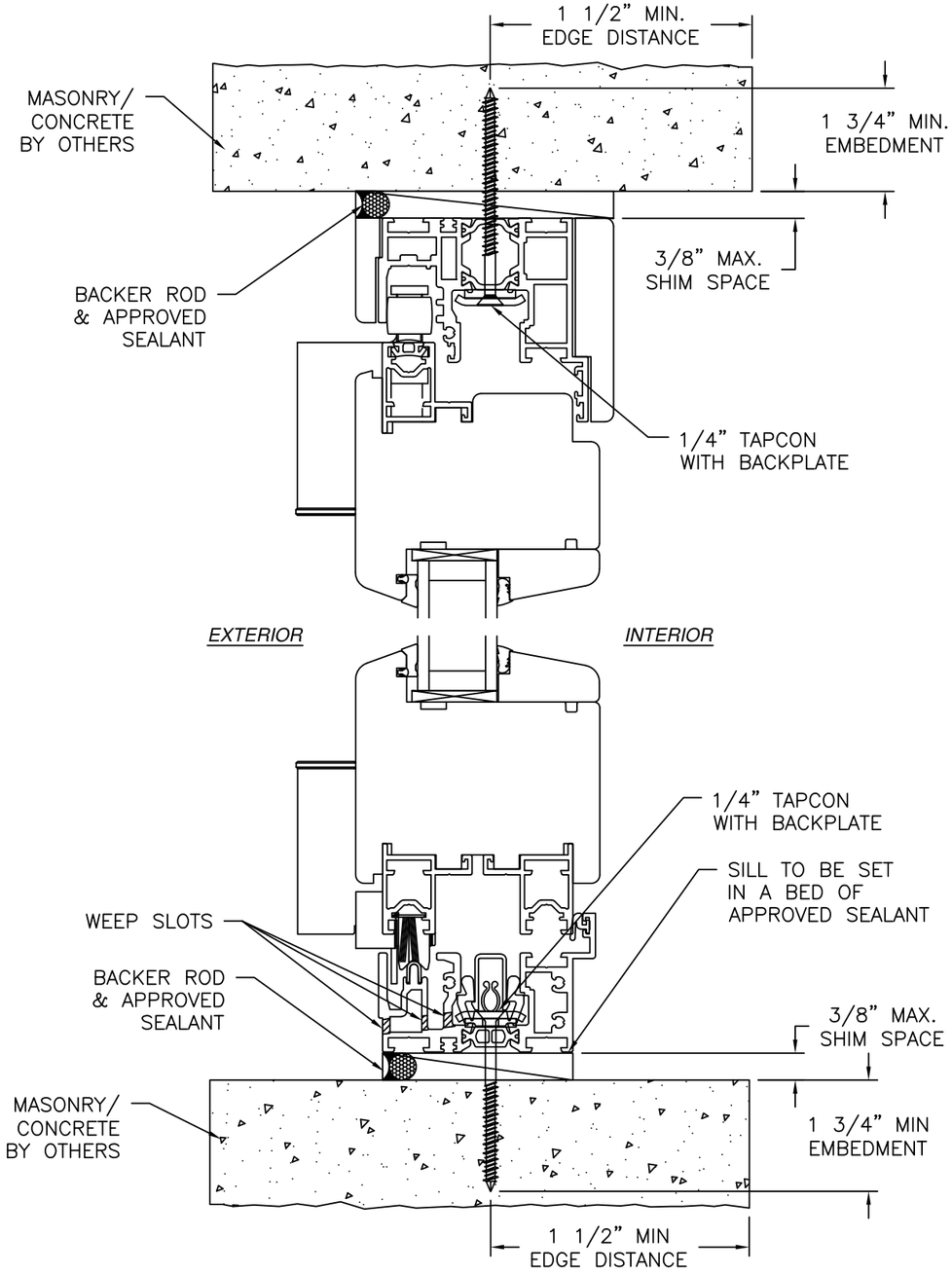
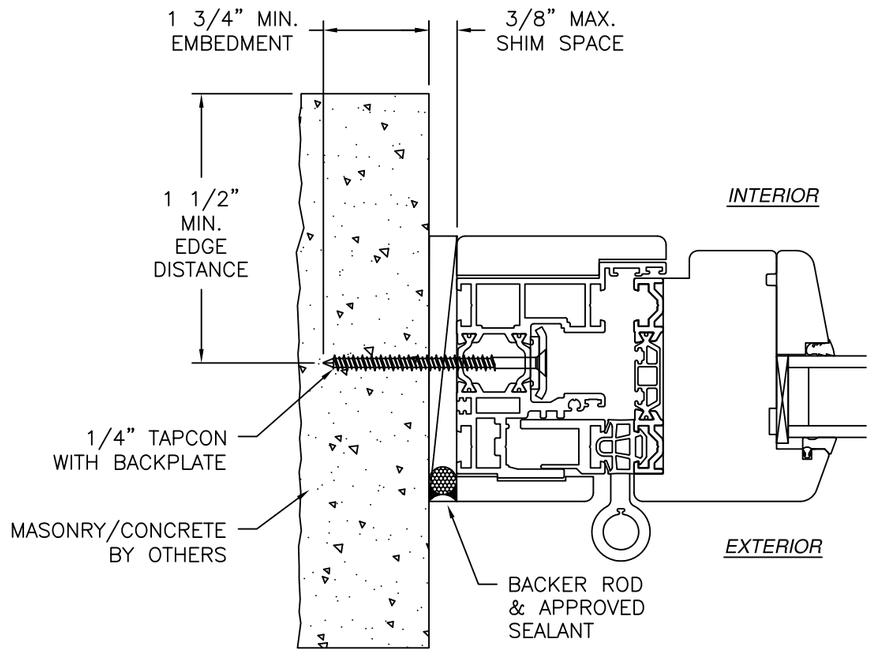
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS AND ANCHORS	08/03/26	R.L.



VERTICAL CROSS SECTION

MASONRY/CONCRETE INSTALLATION
PERFORMANCE 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: 08/03/2026

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

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

DRAWN:	DWG NO.	REV
A.R.	08-03765	A
SCALE NTS	DATE 11/17/2021	SHEET 10 OF 11

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REVISIONS			
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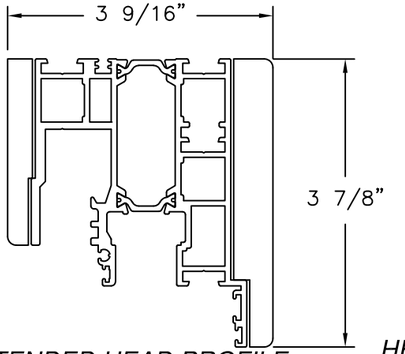
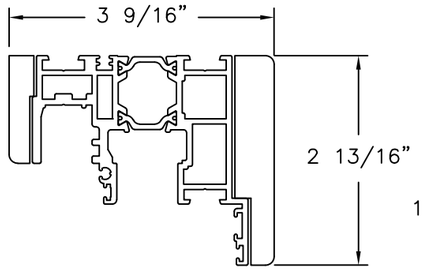
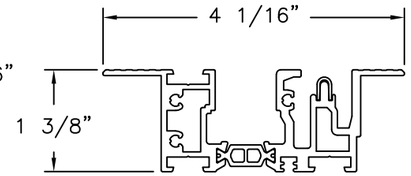


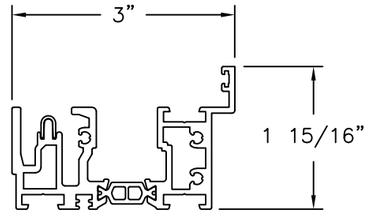
EXTENDED HEAD PROFILE
ALUMINUM 6063-T5



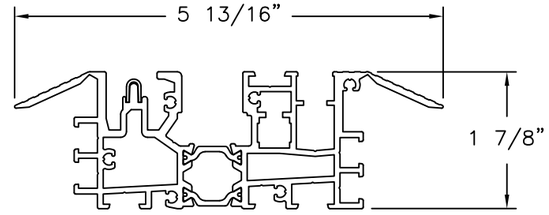
HEAD & JAMB PROFILE (5-310-04)
ALUMINUM 6063-T5



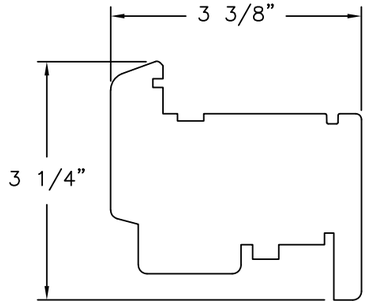
FLUSH SILL
ALUMINUM 6063-T5



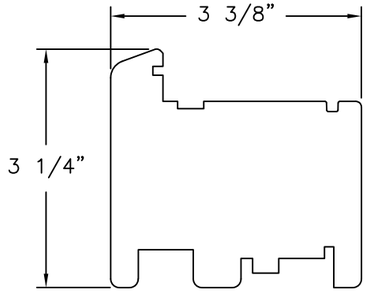
PERFORMANCE SILL
ALUMINUM 6063-T5



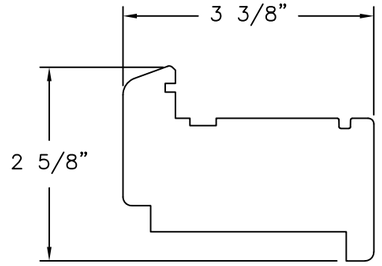
LOW PROFILE SADDLE SILL (5-310-38)
ALUMINUM 6063-T5



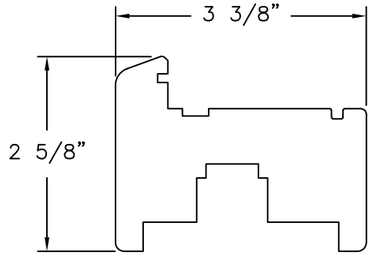
PANEL TOP RAIL PROFILE
(10-410-6181)
3-4 LAYER SOLID WOOD



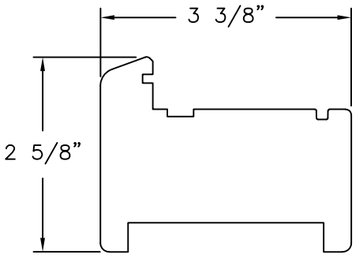
PANEL BOTTOM RAIL PROFILE
(10-420-6173)
3-4 LAYER SOLID WOOD



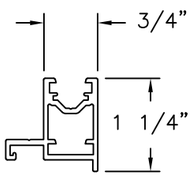
PANEL STILE PROFILE AT JAMB
(10-410-6184)
3-4 LAYER SOLID WOOD



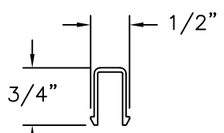
PANEL STILE PROFILE AT
LOCKING SIDE (10-410-6185)
3-4 LAYER SOLID WOOD



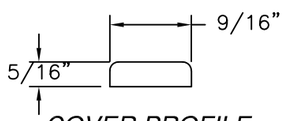
PANEL STILE PROFILE
(10-420-6177)
3-4 LAYER SOLID WOOD



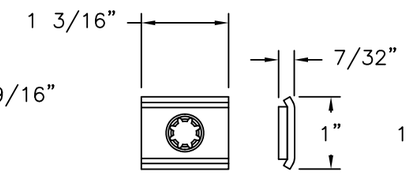
EXTENSION PROFILE
(5-420-03)
ALUMINUM 6063-T5



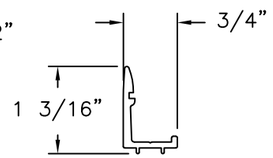
SILL INSERT
PROFILE (5-310-26)
ALUMINUM 6063-T5



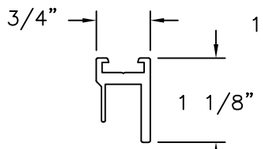
COVER PROFILE
(10-400-21)
LAMINATED WOOD



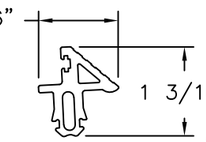
BACK PLATE (15-310-40)
STEEL



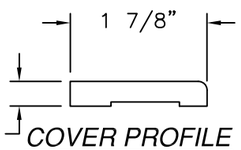
STOP BAR PROFILE
(5-300-08)
ALUMINUM 6063-T5



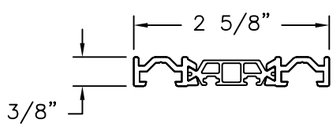
ADJUSTABLE JAMB
PROFILE (5-300-01)
ALUMINUM 6063-T5



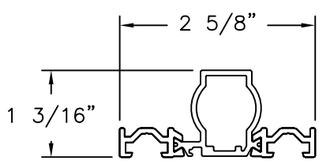
UNIVERSILL
ALUMINUM 6063-T5



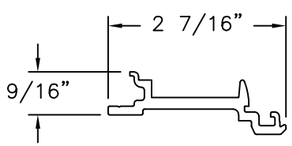
COVER PROFILE
FOR ALUMINUM SIDE JAMB
(10-400-16)
SOLID WOOD



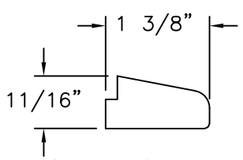
CONNECTING PROFILE (5-400-01)
ALUMINUM 6063-T5



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



CONNECTION STRIP
PROFILE (5-310-27)
POLYAMIDE



GLAZING BEAD
(10-410-01)
SOLID WOOD

SIGNED: 08/03/2026

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

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

DRAWN:	DWG NO.	REV
A.R.	08–03765	A
SCALE NTS	DATE 11/17/2021	SHEET 11 OF 11

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

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

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