

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, METAL STRUCTURE 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 #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. ALL FASTENERS TO BE CORROSION RESISTANT.
17. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - 17.A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 17.B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - 17.C. MASONRY: GROUT FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - 17.D. METAL STRUCTURE: STEEL 18GA (.048") FY= 33KSI/FU=52 KSI WITH WOOD BACKING OR MIN. 1/4" THICK STRUCTURAL STEEL
18. APPROVED CONFIGURATIONS: 1L, 1R, 2L, 2R, 3L, 3R, 4L, 4R, 2L2R, 5L, 5R

SIGNED: 12/16/2023

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

SL 45 OUTSWING FOLDING PANEL SYSTEM
NON-IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-03990

REV
-

SCALE
NTS

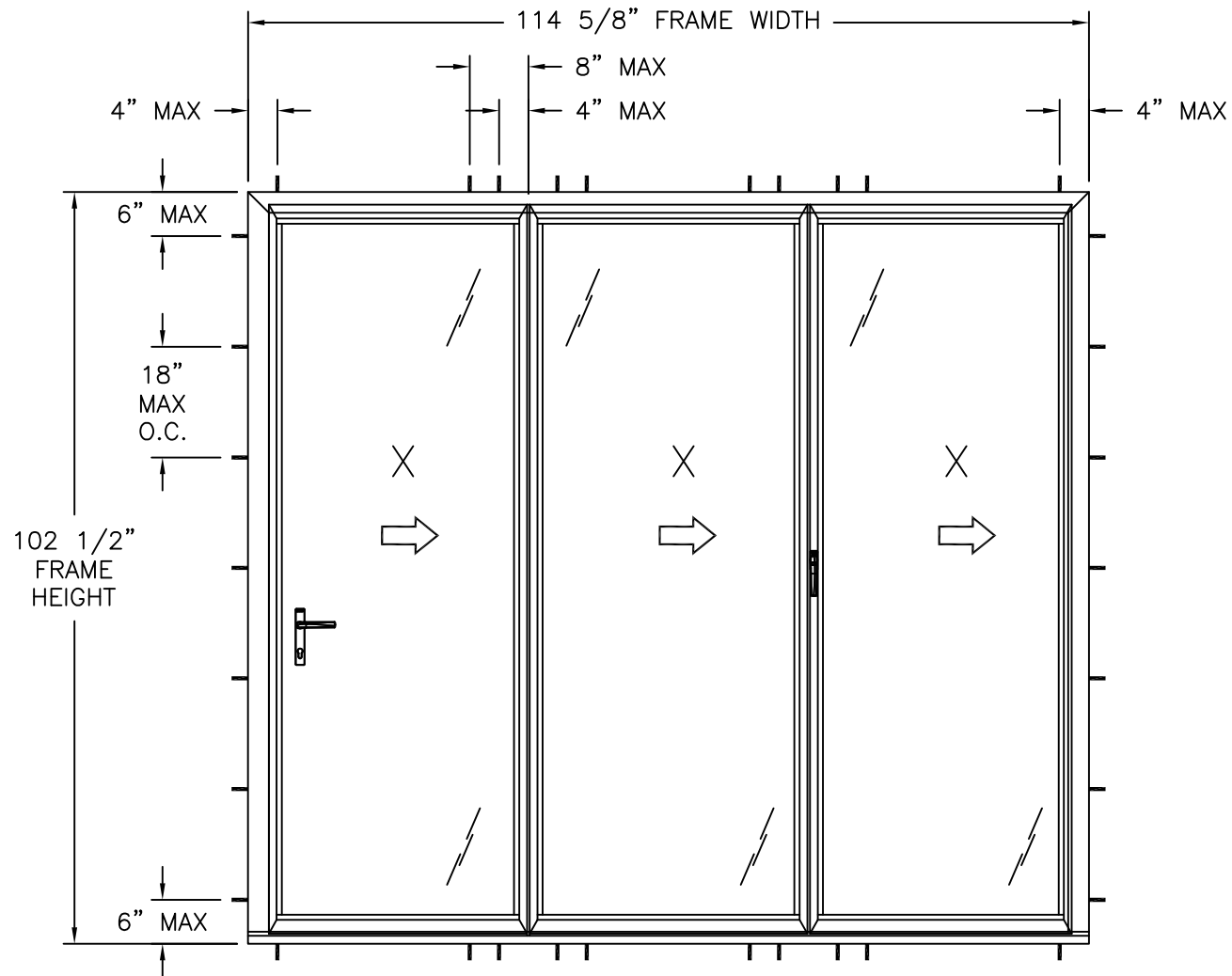
DATE
12/16/23

SHEET
1 OF 7

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434-688-0609 rllomas@lrlomaspe.com

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

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



SL45 OUTSWING FOLDING PANEL SYSTEM
EXTERIOR VIEW
FOR APPROVED CONFIGURATIONS SEE NOTE 18, SHEET 1
FOR PANEL SIZES REFER TO CHARTS THIS SHEET

WHERE WATER PENETRATION RESISTANCE
IS REQUIRED

DESIGN PRESSURE RATING	IMPACT RATING
±35.0PSF	NONE

SADDLE SILL

WHERE WATER PENETRATION RESISTANCE
IS NOT REQUIRED

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

STANDARD OR SADDLE OR FLUSH SILL

NOTES:

- PRIMARY PANEL SIZE: 38 1/8" X 98"
- CENTER FOLDING PANEL SIZE: 37 1/2" X 98"
- JAMB FOLDING PANEL SIZE: 35 1/4" X 98"
- D.L.O. SIZE: 34" X 93 7/8"

REVISIONS			
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Chart #1

Maximum Design pressure (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		38.13		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	35.0	52.5	35.0	52.5	35.0	45.4	35.0	42.9	35.0	38.9	35.0	34.1
84.00	35.0	52.5	35.0	50.9	35.0	43.2	35.0	40.8	35.0	37.1	35.0	32.4
90.00	35.0	52.5	35.0	46.8	35.0	40.4	35.0	38.1	35.0	34.6	34.6	30.3
96.00	35.0	52.2	35.0	43.3	35.0	37.5	35.0	35.7	35.0	32.4	32.4	28.4
98.00	35.0	51.0	35.0	42.3	35.0	36.6	35.0	35.0	35.0	31.8	31.8	27.8
102.00	35.0	47.4	35.0	38.4	35.0	32.5	35.0	30.9	32.4	28.4	29.0	25.4
108.00	35.0	39.8	35.0	32.2	31.1	27.2	29.6	25.9	27.1	23.7	24.2	21.2
114.00	35.0	33.8	31.2	27.3	26.3	23.1	25.0	21.9	22.9	20.1	20.4	17.9
120.00	33.1	28.9	26.7	23.4	22.5	19.7	21.3	18.7	19.5	17.1	17.4	15.2
126.00	28.5	25.0	23.0	20.1	19.4	16.9	18.4	16.1	16.8	-	-	-
132.00	24.8	21.7	20.0	17.5	16.8	-	-	-	-	-	-	-

SADDLE SILL
WHERE WATER PENETRATION RESISTANCE IS REQUIRED

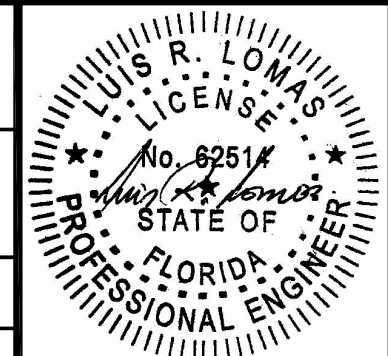
Chart #2

Maximum Design pressure (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.00		30.00		36.00		38.13		42.00		48.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	60.0	52.5	60.0	52.5	51.9	45.4	49.0	42.9	44.5	38.9	38.9	34.1
84.00	60.0	52.5	58.2	50.9	49.4	43.2	46.7	40.8	42.4	37.1	37.1	32.4
90.00	60.0	52.5	53.5	46.8	46.1	40.4	43.6	38.1	39.5	34.6	34.6	30.3
96.00	59.7	52.2	49.5	43.3	42.9	37.5	40.8	35.7	37.1	32.4	32.4	28.4
98.00	58.3	51.0	48.3	42.3	41.8	36.6	40.0	35.0	36.3	31.8	31.8	27.8
102.00	54.2	47.4	43.9	38.4	37.2	32.5	35.3	30.9	32.4	28.4	29.0	25.4
108.00	45.5	39.8	36.8	32.2	31.1	27.2	29.6	25.9	27.1	23.7	24.2	21.2
114.00	38.6	33.8	31.2	27.3	26.3	23.1	25.0	21.9	22.9	20.1	20.4	17.9
120.00	33.1	28.9	26.7	23.4	22.5	19.7	21.3	18.7	19.5	17.1	17.4	15.2
126.00	28.5	25.0	23.0	20.1	19.4	16.9	18.4	16.1	16.8	-	-	-
132.00	24.8	21.7	20.0	17.5	16.8	-	-	-	-	-	-	-

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

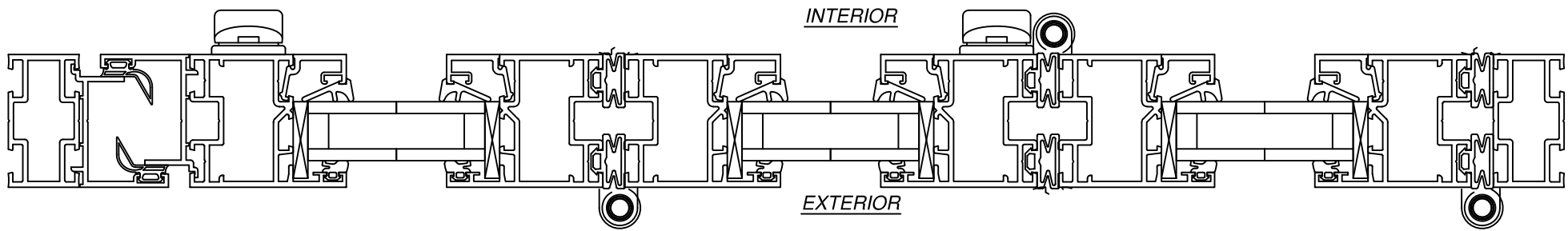
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NANA WALL SYSTEMS, INC. 100 MEADOWCREEK DRIVE, SUITE 250 CORTE MADERA, CA 94925		
SL 45 OUTSWING FOLDING PANEL SYSTEM NON-IMPACT ELEVATION		
DRAWN: A.R.	DWG NO. 08-03990	REV -
SCALE NTS	DATE 12/16/23	SHEET 2 OF 7
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

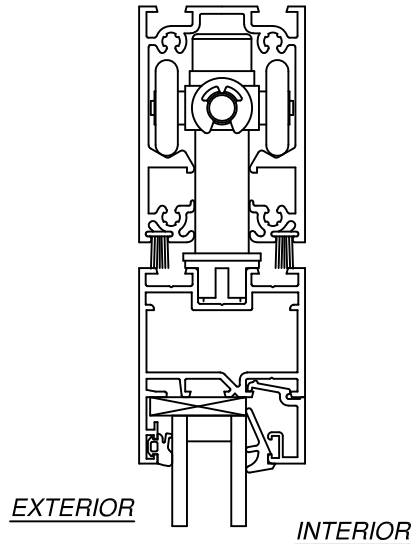


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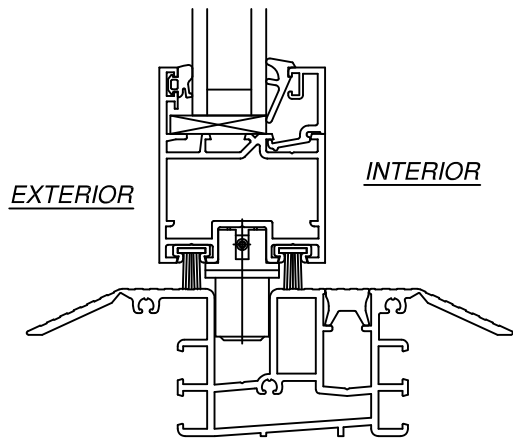
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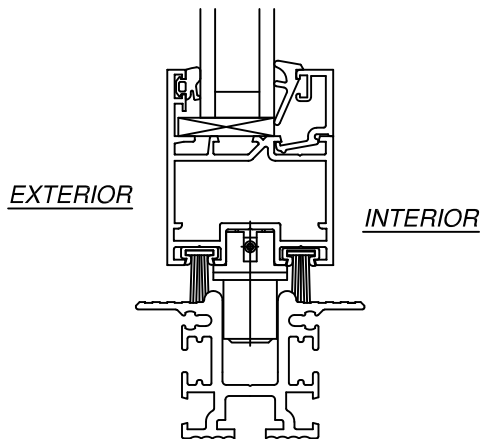
HORIZONTAL CROSS SECTION



VERTICAL CROSS SECTION
WITH STANDARD SILL



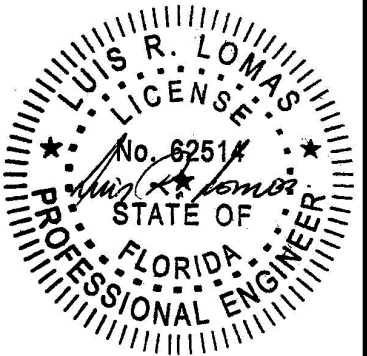
VERTICAL CROSS SECTION
WITH SADDLE SILL



VERTICAL CROSS SECTION
WITH FLUSH SILL

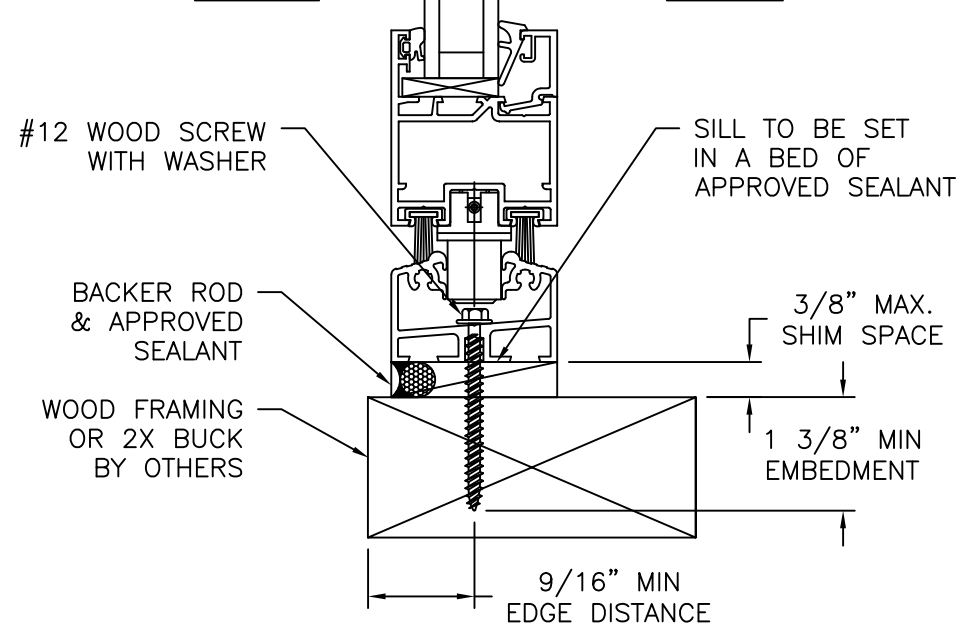
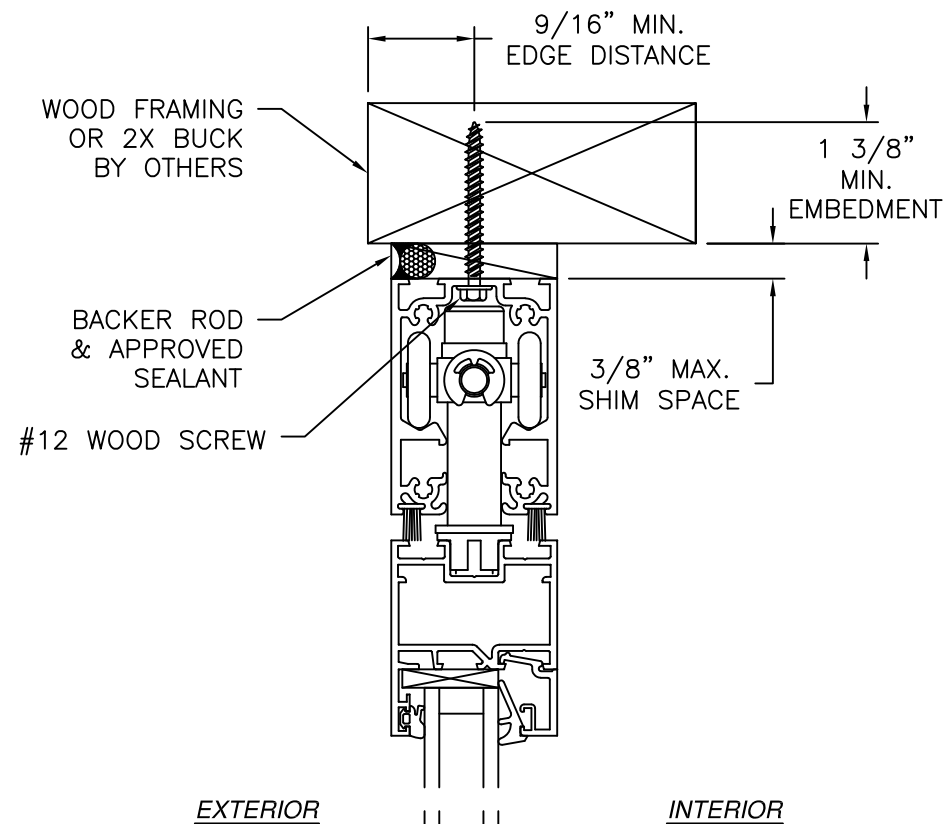
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NANA WALL SYSTEMS, INC. 100 MEADOWCREEK DRIVE, SUITE 250 CORTE MADERA, CA 94925		
SL 45 OUTSWING FOLDING PANEL SYSTEM NON-IMPACT CROSS SECTION		
DRAWN: A.R.	DWG NO. 08-03990	REV -
SCALE NTS	DATE 12/16/23	SHEET 3 OF 7
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

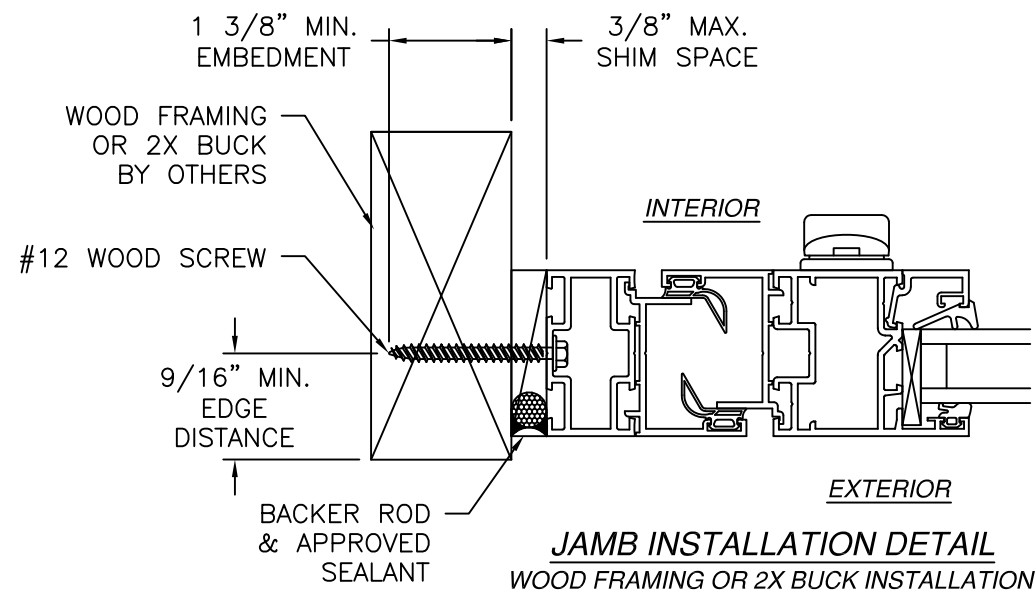


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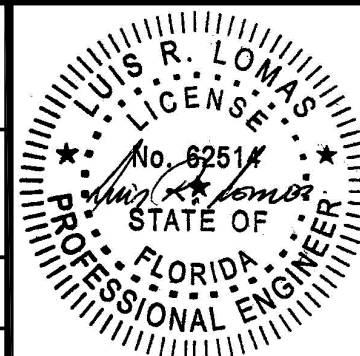
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION
STANDARD SILL SHOWN, OTHER SILLS SIMILAR



- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112
 3. WEEP HOLES IN SADDLE SILL ARE FIELD INSTALLED AND ARE NOT SHOWN FOR CLARITY

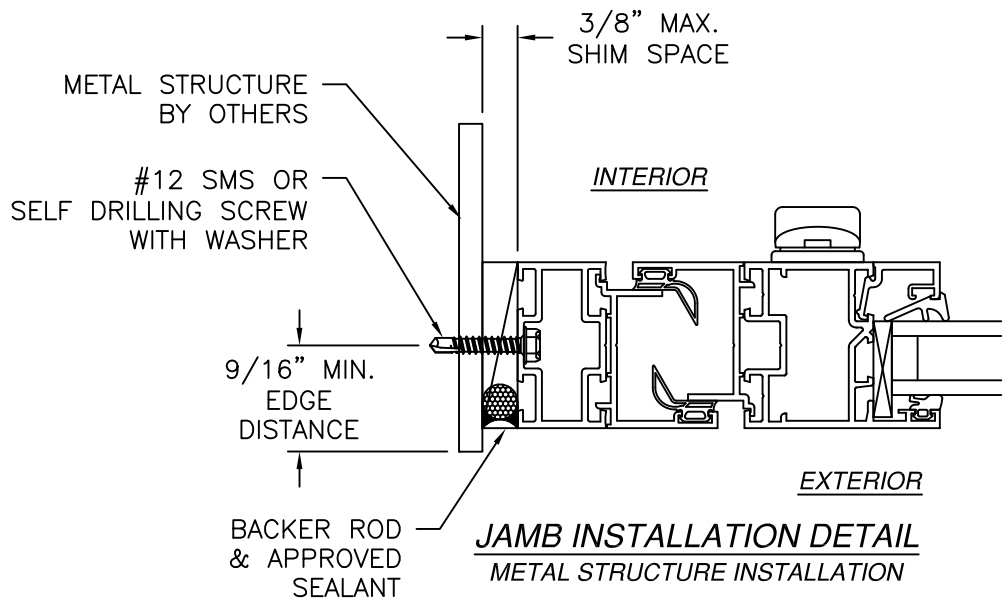
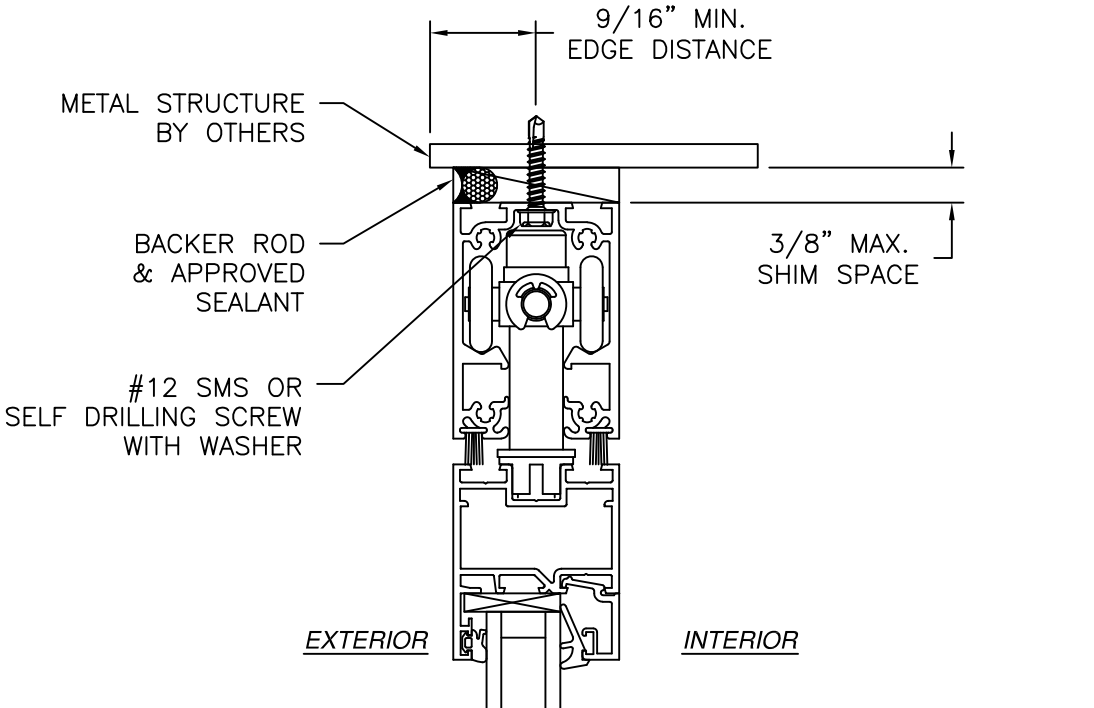
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NANA WALL SYSTEMS, INC. 100 MEADOWCREEK DRIVE, SUITE 250 CORTE MADERA, CA 94925		
SL 45 OUTSWING FOLDING PANEL SYSTEM NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03990	REV -
SCALE NTS	DATE 12/16/23	SHEET 4 OF 7
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

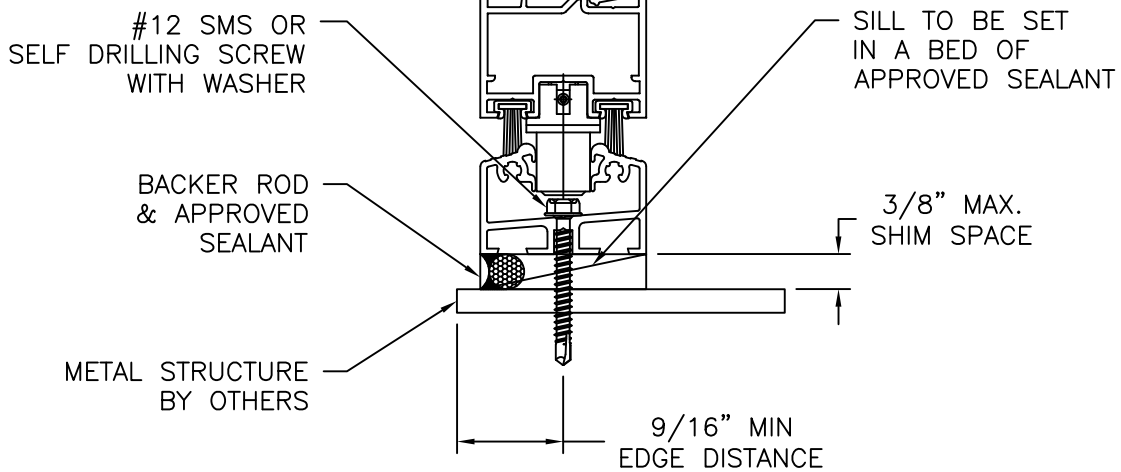


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- NOTES:
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION
STANDARD SILL SHOWN, OTHER SILLS SIMILAR

NANA WALL SYSTEMS, INC.

100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SL 45 OUTSWING FOLDING PANEL SYSTEM
NON-IMPACT
INSTALLATION DETAILS

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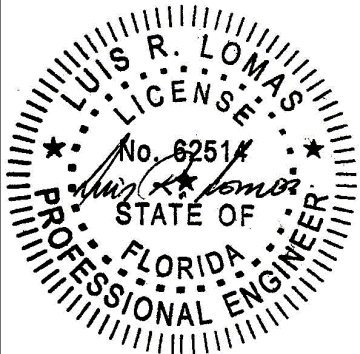
DATE
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SHEET
5 OF 7

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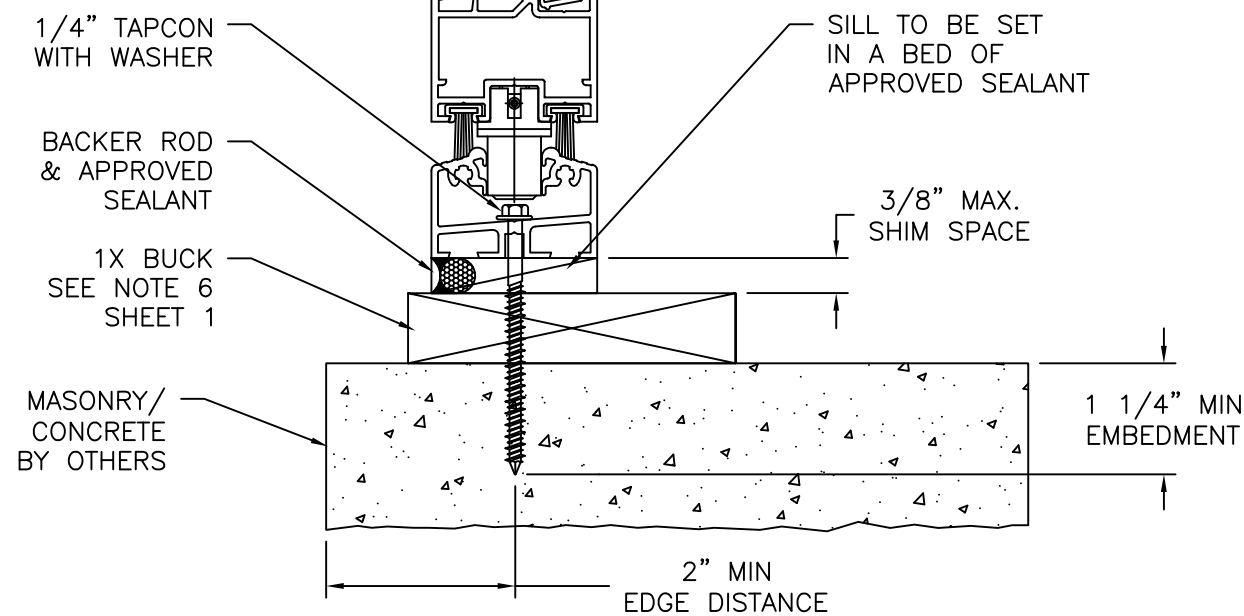
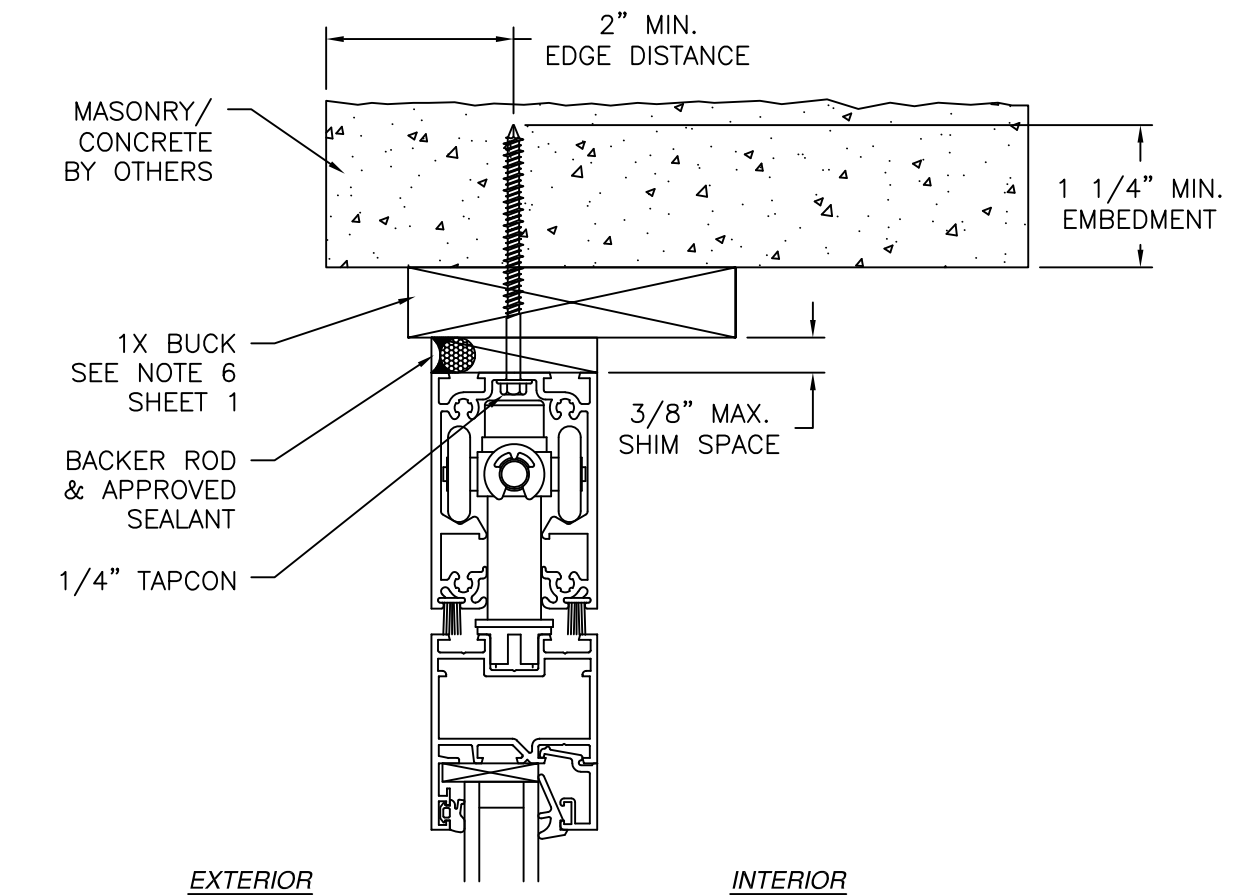
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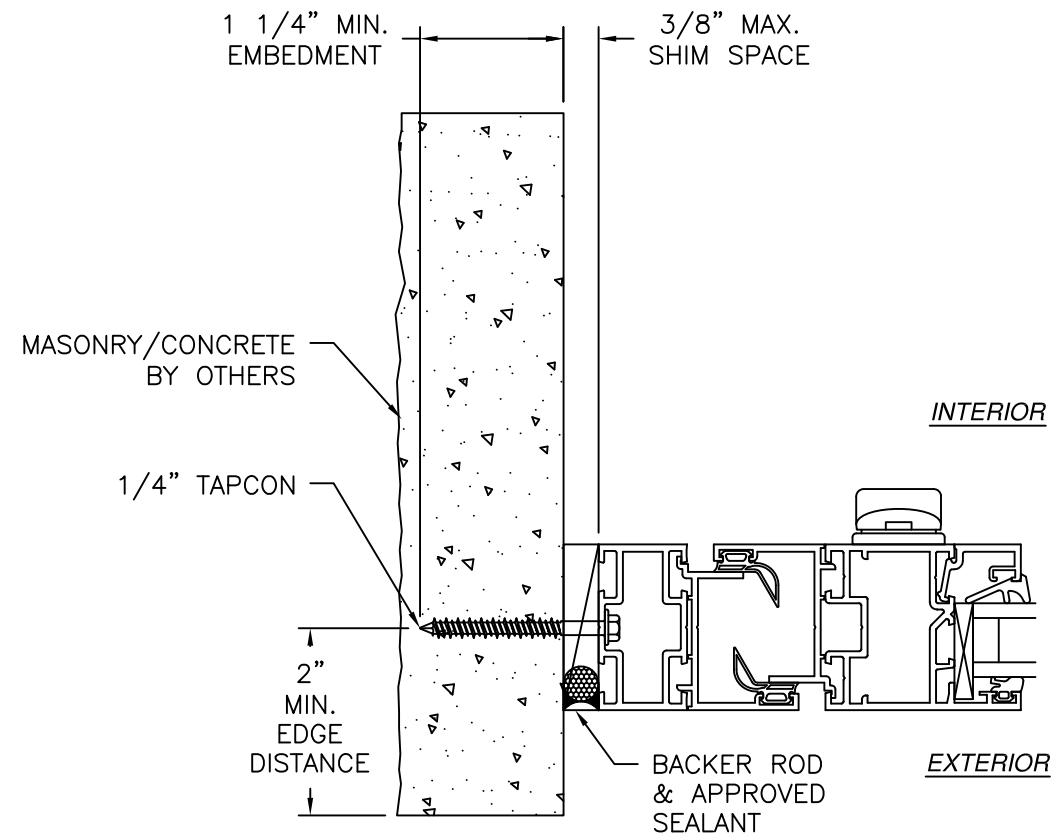


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VERTICAL CROSS SECTION
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO JAMB INSTALLATION DETAIL
STANDARD SILL SHOWN, OTHER SILLS SIMILAR

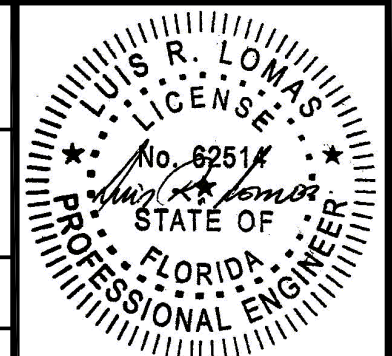


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

- NOTES:
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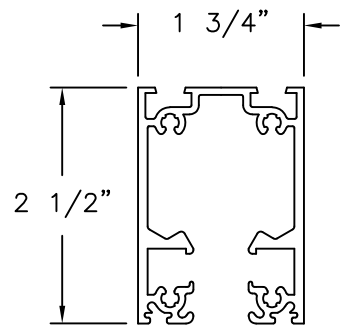
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NANA WALL SYSTEMS, INC. 100 MEADOWCREEK DRIVE, SUITE 250 CORTE MADERA, CA 94925		
SL 45 OUTSWING FOLDING PANEL SYSTEM NON-IMPACT INSTALLATION DETAILS		
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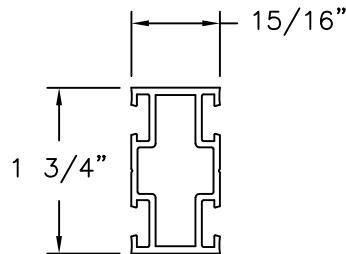


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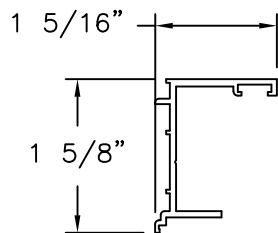
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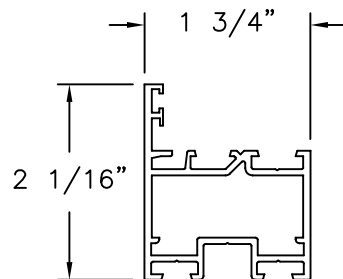
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ALUMINUM 6063-T5



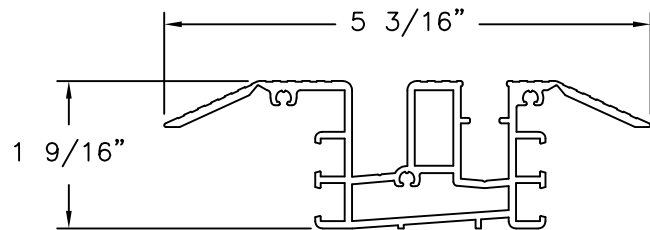
FRAME STILE
ALUMINUM 6063-T5



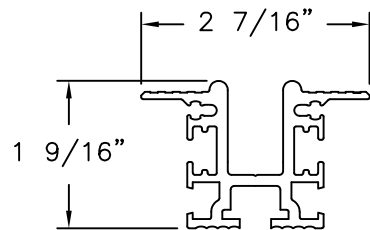
FRAME EXTENDER
ALUMINUM 6063-T5



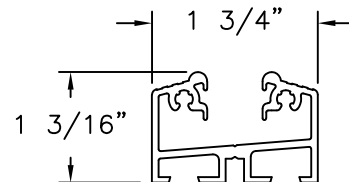
PANEL FRAME
ALUMINUM 6063-T5



SADDLE SILL
ALUMINUM 6063-T5



FLUSH SILL
ALUMINUM 6063-T5



STANDARD SILL
ALUMINUM 6063-T5

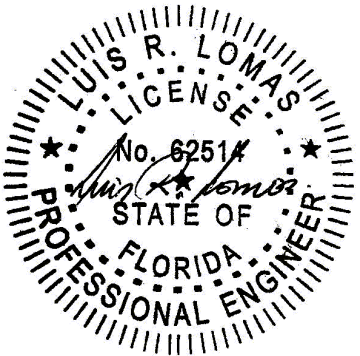
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100 MEADOWCREEK DRIVE, SUITE 250
CORTE MADERA, CA 94925

SL 45 OUTSWING FOLDING PANEL SYSTEM
NON-IMPACT
COMPONENTS

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