

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 METAL STRUCTURE 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. SHIM AS NEEDED. AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
4. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
5. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. FRAME MATERIAL: EXTRUDED RIGID PVC.
7. UNITS MUST BE GLAZED PER ASTM E1300, REFER TO GLAZING DETAIL SHEET 8.
8. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
9. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING THROUGH FIN INTO METAL STRUCTURE USE #8 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.
11. 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:

11.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42

11.2. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI

SIGNED: 08/06/2026

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS
3	DESIGN PRESSURE CHARTS
4 – 7	INSTALLATION DETAILS
8	COMPONENTS

KRESTMARK INDUSTRIES, L.P.
3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

4000 VINYL TWIN SINGLE HUNG WINDOW TILT
WITH TRANSOM – IMPACT 72" X 108"
NOTES

DRAWN:
A.R.

DWG NO.
08-03913

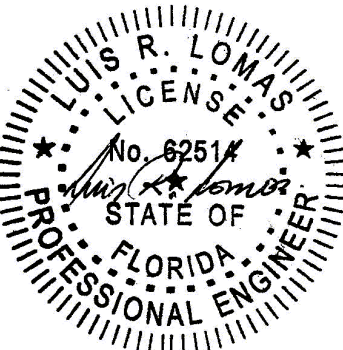
REV
-

SCALE NTS

DATE 06/27/2023

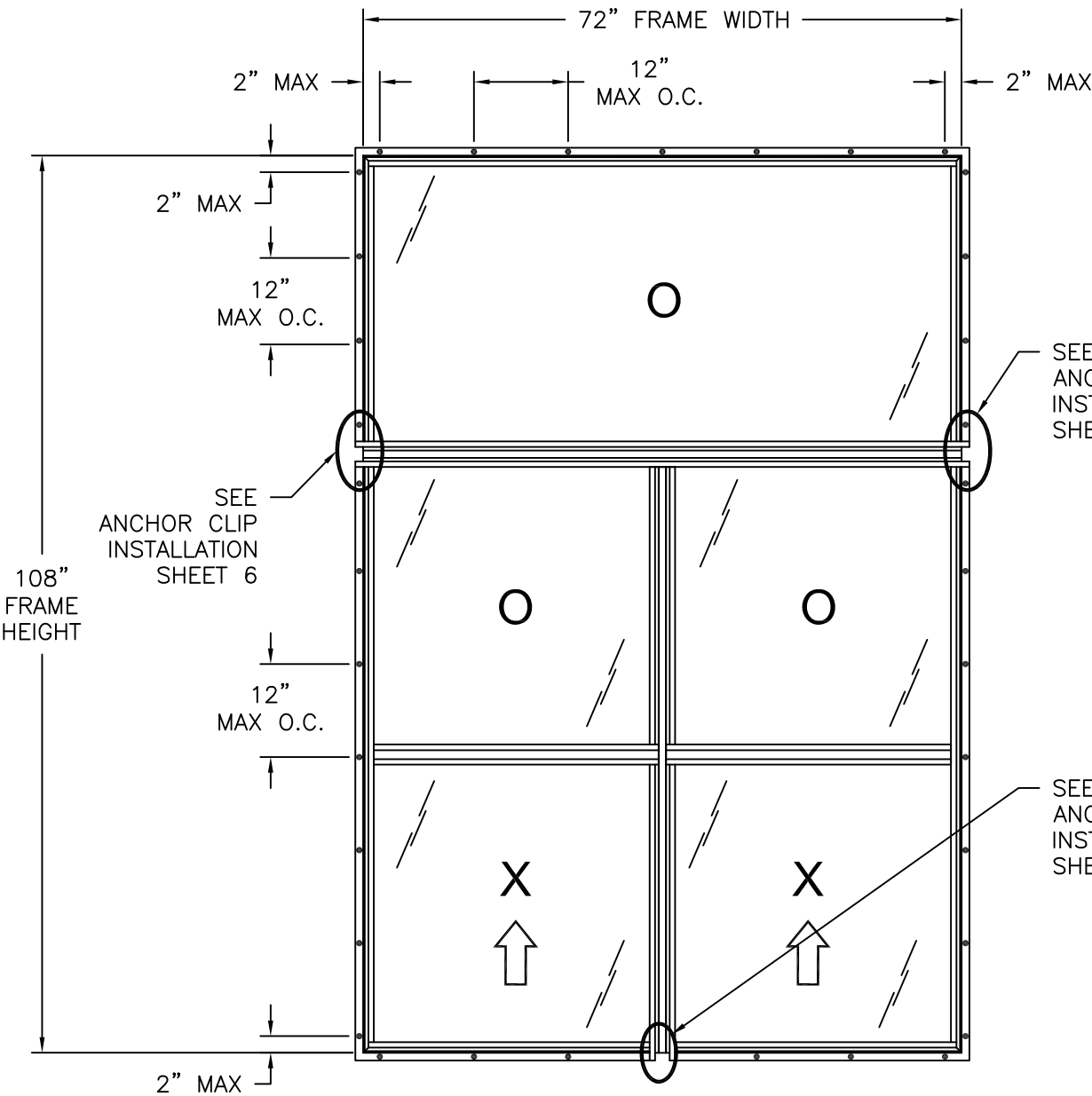
SHEET 1 OF 8

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



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



NOTES:

1. SASH SIZE: 33 5/8" X 35 3/8"
2. FIXED D.L.O.: 32" X 33 1/8"
3. TRANSOM D.L.O.: 69" X 33 5/8"

4000 VINYL TWIN SINGLE HUNG WINDOW TILT W/TRANSOM
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE & SMALL MISSILE IMPACT

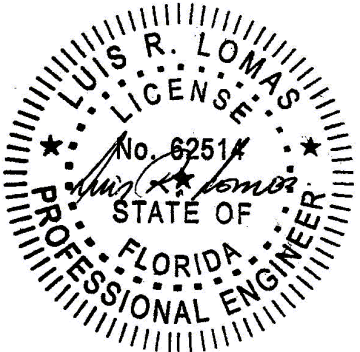
MISSILE LEVEL D, WIND ZONE 4
FOR ADDITIONAL SIZES SEE CHART #1, #2 AND #3, SHEET 3

HARDWARE SCHEDULE

A.	METALLIC SWEEP LOCK WITH KEEPER, 5 1/2" FROM EACH END OF SASH TOP RAIL
B.	ONE METALLIC TILT LATCH AT EACH END OF SASH TOP RAIL
C.	ONE BLOCK AND TACKLE TYPE BALANCE PER JAMB
D.	ALUMINUM REINFORCEMENT (203A) INSIDE FIXED INTERLOCK
E.	ALUMINUM REINFORCEMENT (204-B) INSIDE SASH TOP RAIL AND STILES
F.	ALUMINUM REINFORCEMENT (210-A) AT VERTICAL AND HORIZONTAL MULLION

SIGNED: 08/06/2026

KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
4000 VINYL TWIN SINGLE HUNG WINDOW TILT WITH TRANSOM – IMPACT 72" X 108" ELEVATIONS		
DRAWN: A.R.	DWG NO. 08-03913	REV -
SCALE NTS	DATE 06/27/2023	SHEET 2 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

Chart #1
Rating for units with 12 inches transom height (psf)

Window Height (in)	Frame width (in)													
	36.0		48.0		60.0		72.0		80.0		84.0		96.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	41.0	41.0
30.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	35.4	35.4
36.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	31.3	31.3
42.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	48.6	48.6	28.1	28.1
48.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	44.3	44.3	25.6	25.6
54.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.6	49.6	40.7	40.7	23.6	23.6
60.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	45.9	45.9	37.6	37.6	21.8	21.8
66.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	42.6	42.6	34.9	34.9	20.3	20.3
72.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	39.8	39.8	32.6	32.6	18.9	18.9	
78.0	50.0	50.0	50.0	50.0	45.2	45.2	38.7	38.7	35.6	35.6	30.6	30.6	17.8	17.8
84.0	50.0	50.0	44.1	44.1	35.9	35.9	30.6	30.6	28.1	28.1	27.0	27.0	16.8	16.8
90.0	47.0	47.0	35.7	35.7	29.0	29.0	24.7	24.7	22.5	22.5	21.6	21.6	-	-
96.0	38.6	38.6	29.3	29.3	23.8	23.8	20.2	20.2	18.4	18.4	17.6	17.6	-	-
108.0	27.0	27.0	20.5	20.5	16.6	16.6	-	-	-	-	-	-	-	-

Chart #2
Rating for units with 24 inches transom height (psf)

Window Height (in)	Frame width (in)													
	36.0		48.0		60.0		72.0		80.0		84.0		96.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	31.9	31.9
30.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.2	49.2	28.4	28.4
36.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	44.5	44.5	25.7	25.7
42.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.9	49.9	40.8	40.8	23.5	23.5
48.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	46.1	46.1	37.7	37.7	21.7	21.7
54.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	42.8	42.8	35.0	35.0	20.2	20.2
60.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	40.0	40.0	32.7	32.7	18.9	18.9
66.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	37.5	37.5	30.7	30.7	17.8	17.8
72.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	35.3	35.3	28.9	28.9	16.7	16.7	
78.0	50.0	50.0	50.0	50.0	45.2	45.2	38.7	38.7	33.3	33.3	27.3	27.3	-	-
84.0	50.0	50.0	44.1	44.1	35.9	35.9	30.6	30.6	28.1	28.1	25.9	25.9	-	-
90.0	47.0	47.0	35.7	35.7	29.0	29.0	24.7	24.7	22.5	22.5	21.6	21.6	-	-
96.0	38.6	38.6	29.3	29.3	23.8	23.8	20.2	20.2	18.4	18.4	17.6	17.6	-	-
108.0	27.0	27.0	20.5	20.5	16.6	16.6	-	-	-	-	-	-	-	-

Chart #3
Rating for units with 36 inches transom height (psf)

Window Height (in)	Frame width (in)													
	36.0		48.0		60.0		72.0		80.0		84.0		96.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	46.8	46.8	26.8	26.8
30.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	42.4	42.4	24.3	24.3
36.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	47.7	47.7	38.9	38.9	22.3	22.3
42.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	44.2	44.2	36.0	36.0	20.6	20.6
48.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	41.2	41.2	33.6	33.6	19.3	19.3
54.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	38.5	38.5	31.5	31.5	18.1	18.1
60.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	36.2	36.2	29.6	29.6	17.0	17.0
66.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	34.2	34.2	27.9	27.9	16.1	16.1
72.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	32.3	32.3	26.4	26.4	-	-
78.0	50.0	50.0	50.0	50.0	45.2	45.2	38.7	38.7	30.7	30.7	25.1	25.1	-	-
84.0	50.0	50.0	44.1	44.1	35.9	35.9	30.6	30.6	28.1	28.1	23.9	23.9	-	-
90.0	47.0	47.0	35.7	35.7	29.0	29.0	24.7	24.7	22.5	22.5	21.6	21.6	-	-
96.0	38.6	38.6	29.3	29.3	23.8	23.8	20.2	20.2	18.4	18.4	17.6	17.6	-	-
108.0	27.0	27.0	20.5	20.5	16.6	16.6	-	-	-	-	-	-	-	-

SIGNED: 08/06/2026

KRESTMARK INDUSTRIES, L.P.
3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

4000 VINYL TWIN SINGLE HUNG WINDOW TILT
WITH TRANSOM – IMPACT 72” X 108”
DESIGN PRESSURE CHARTS

DRAWN:
A.R.

DWG NO.
08-03913

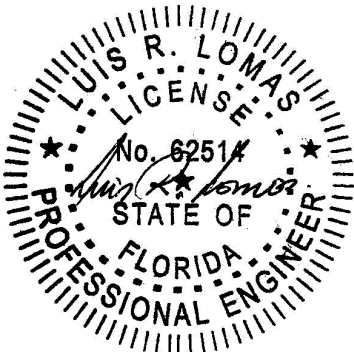
REV
-

SCALE
NTS

DATE
06/27/2023

SHEET
3 OF 8

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



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

APPROVED SEALANT BEHIND FIN

#8 WOOD SCREW

7/16" MIN EDGE DISTANCE

1" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

1/4" MAX. SHIM SPACE

EXTERIOR

INTERIOR

7/16" MIN EDGE DISTANCE

#8 WOOD SCREW

APPROVED SEALANT BEHIND FIN

1" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

1/4" MAX. SHIM SPACE

VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

WOOD FRAMING BY OTHERS

#8 WOOD SCREW

1" MIN. EMBEDMENT

APPROVED SEALANT BEHIND FIN

3/8" MIN EDGE DISTANCE

1/4" MAX SHIM SPACE

INTERIOR

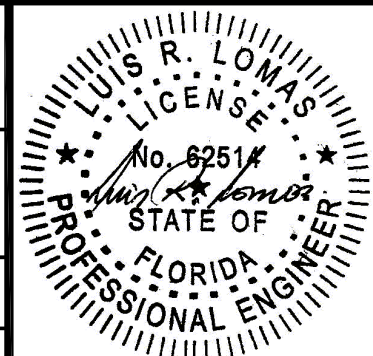
EXTERIOR

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

SIGNED: 08/06/2026

KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
4000 VINYL TWIN SINGLE HUNG WINDOW TILT WITH TRANSOM – IMPACT 72" X 108" INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03913	REV -
SCALE NTS	DATE 06/27/2023	SHEET 4 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

APPROVED SEALANT BEHIND FIN

#8 SMS OR SELF DRILLING SCREW

7/16" MIN EDGE DISTANCE

METAL STRUCTURE BY OTHERS

1/4" MAX. SHIM SPACE

EXTERIOR

INTERIOR

7/16" MIN EDGE DISTANCE

#8 SMS OR SELF DRILLING SCREW

APPROVED SEALANT BEHIND FIN

METAL STRUCTURE BY OTHERS

1/4" MAX. SHIM SPACE

VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

METAL STRUCTURE BY OTHERS

1/4" MAX SHIM SPACE

#8 SMS OR SELF DRILLING SCREW

APPROVED SEALANT BEHIND FIN

7/16" MIN EDGE DISTANCE

INTERIOR

EXTERIOR

JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

- NOTES:
- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 08/06/2026

KRESTMARK INDUSTRIES, L.P.

3950 BASTILLE RD., SUITE 100

DALLAS, TX 75212

4000 VINYL TWIN SINGLE HUNG WINDOW TILT WITH TRANSOM – IMPACT 72" X 108"

INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03913

REV -

SCALE NTS

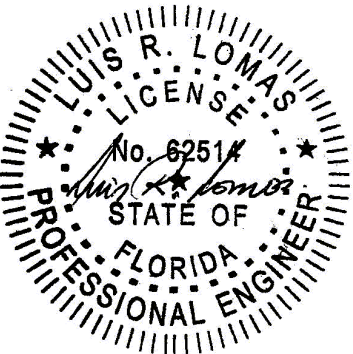
DATE 06/27/2023

SHEET 5 OF 8

L. ROBERTO LOMAS P.E.

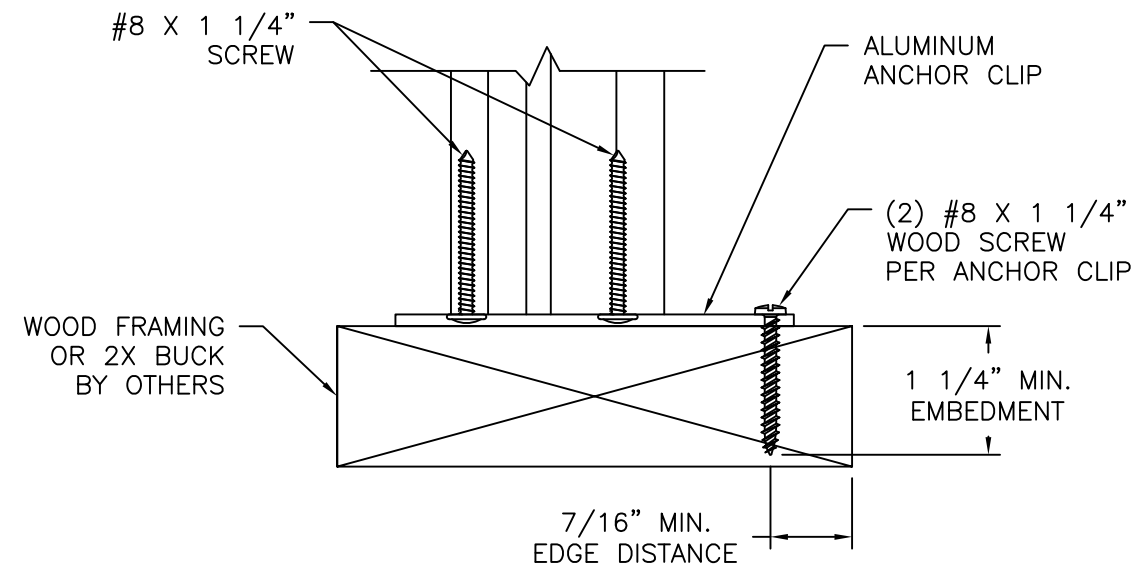
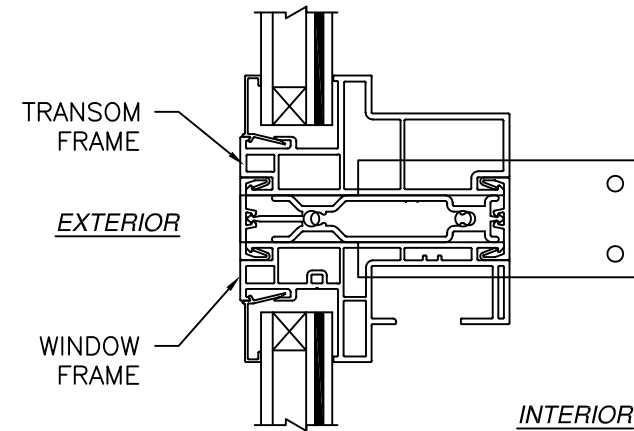
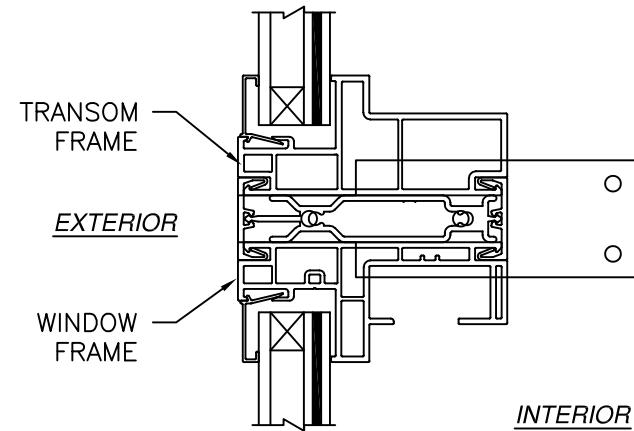
208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

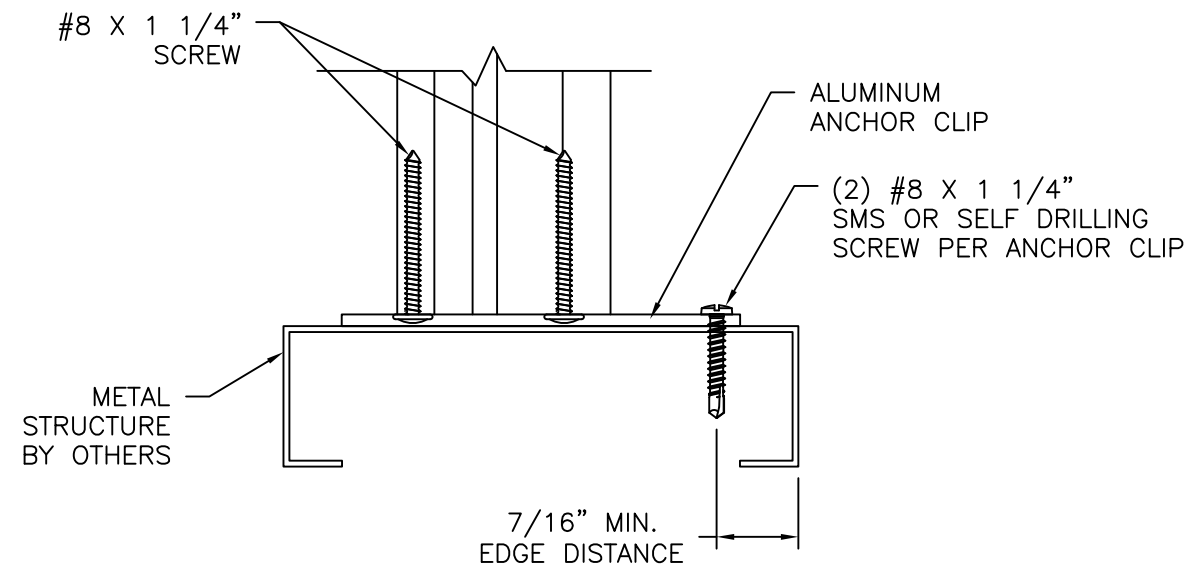


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



HORIZONTAL MULLION ANCHOR CLIP DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

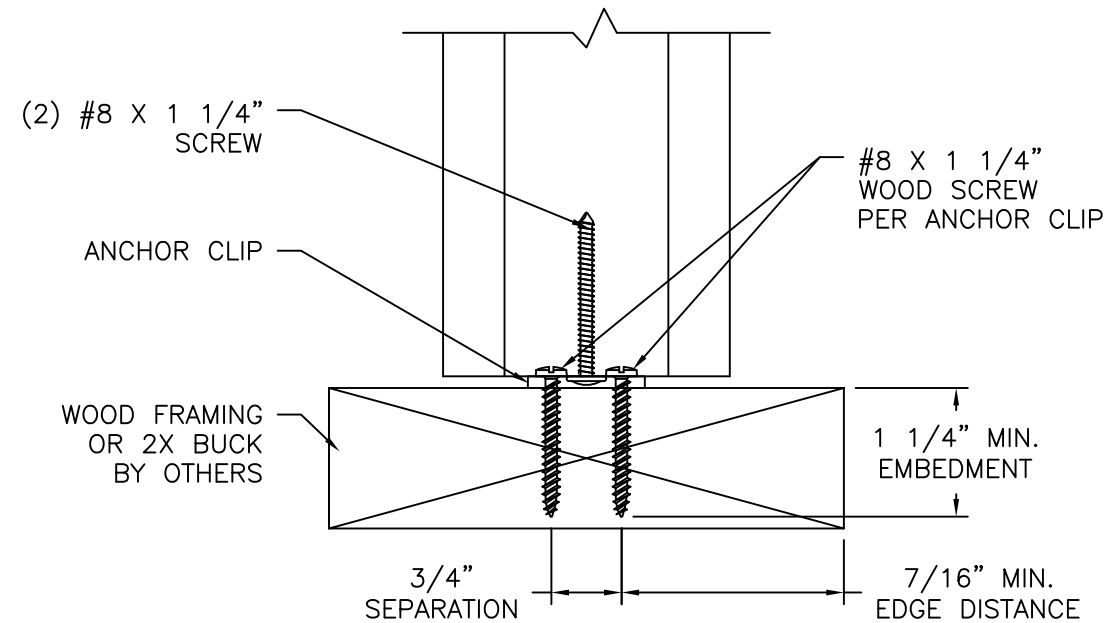
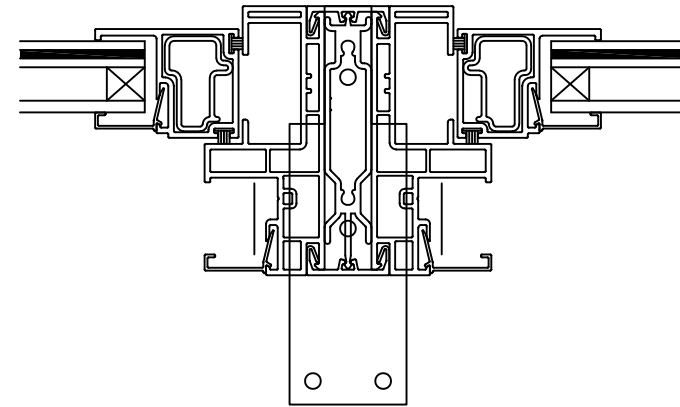
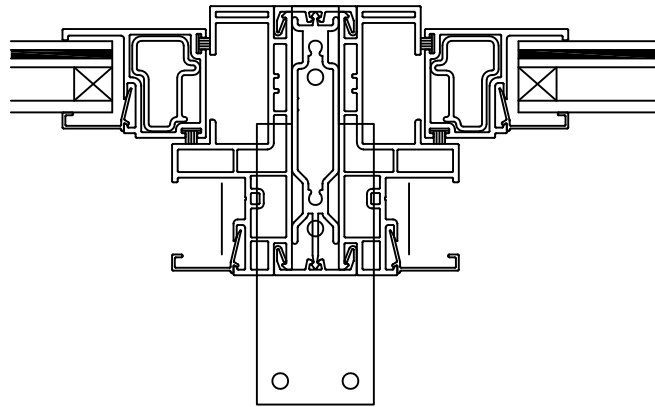


HORIZONTAL MULLION ANCHOR CLIP DETAIL
METAL STRUCTURE INSTALLATION

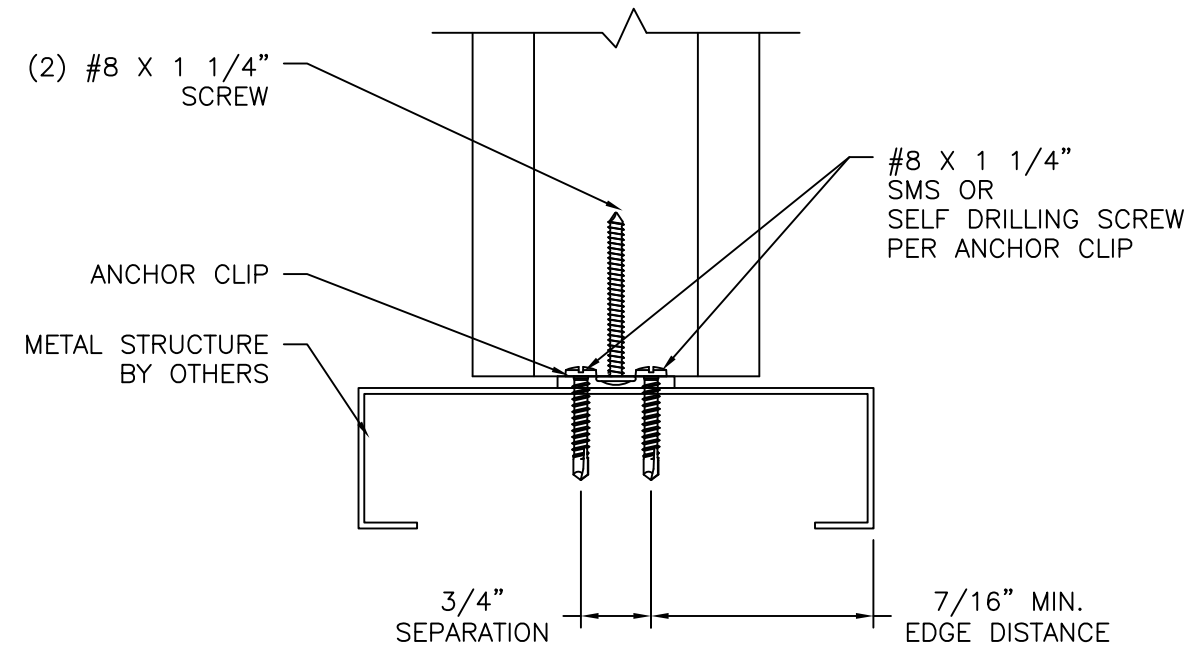
SIGNED: 08/06/2026

KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212			
4000 VINYL TWIN SINGLE HUNG WINDOW TILT WITH TRANSOM – IMPACT 72" X 108" INSTALLATION DETAILS			
DRAWN: A.R.	DWG NO. 08-03913	REV -	
SCALE NTS	DATE 06/27/2023	SHEET 6 OF 8	
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



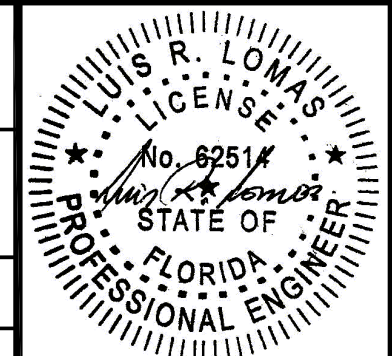
VERTICAL MULLION ANCHOR CLIP DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION



VERTICAL MULLION ANCHOR CLIP DETAIL
METAL STRUCTURE INSTALLATION

SIGNED: 08/06/2026

KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
4000 VINYL TWIN SINGLE HUNG WINDOW TILT WITH TRANSOM – IMPACT 72" X 108" INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03913	REV -
SCALE NTS	DATE 06/27/2023	SHEET 7 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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

