

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.
 - 8. APPROVED IMPACT PROTECTIVE SYSTEM IS 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

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION
3	DESIGN PRESSURE CHARTS
4 – 6	INSTALLATION DETAILS
7	COMPONENTS

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

200/275 VINYL TILT TWIN SINGLE HUNG WINDOW
WITH TRANSOM NON-IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-03929

REV
-

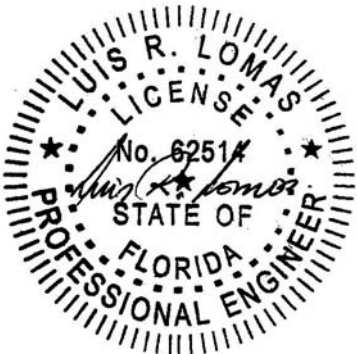
SCALE NTS

DATE 06/20/2023

SHEET 1 OF 7

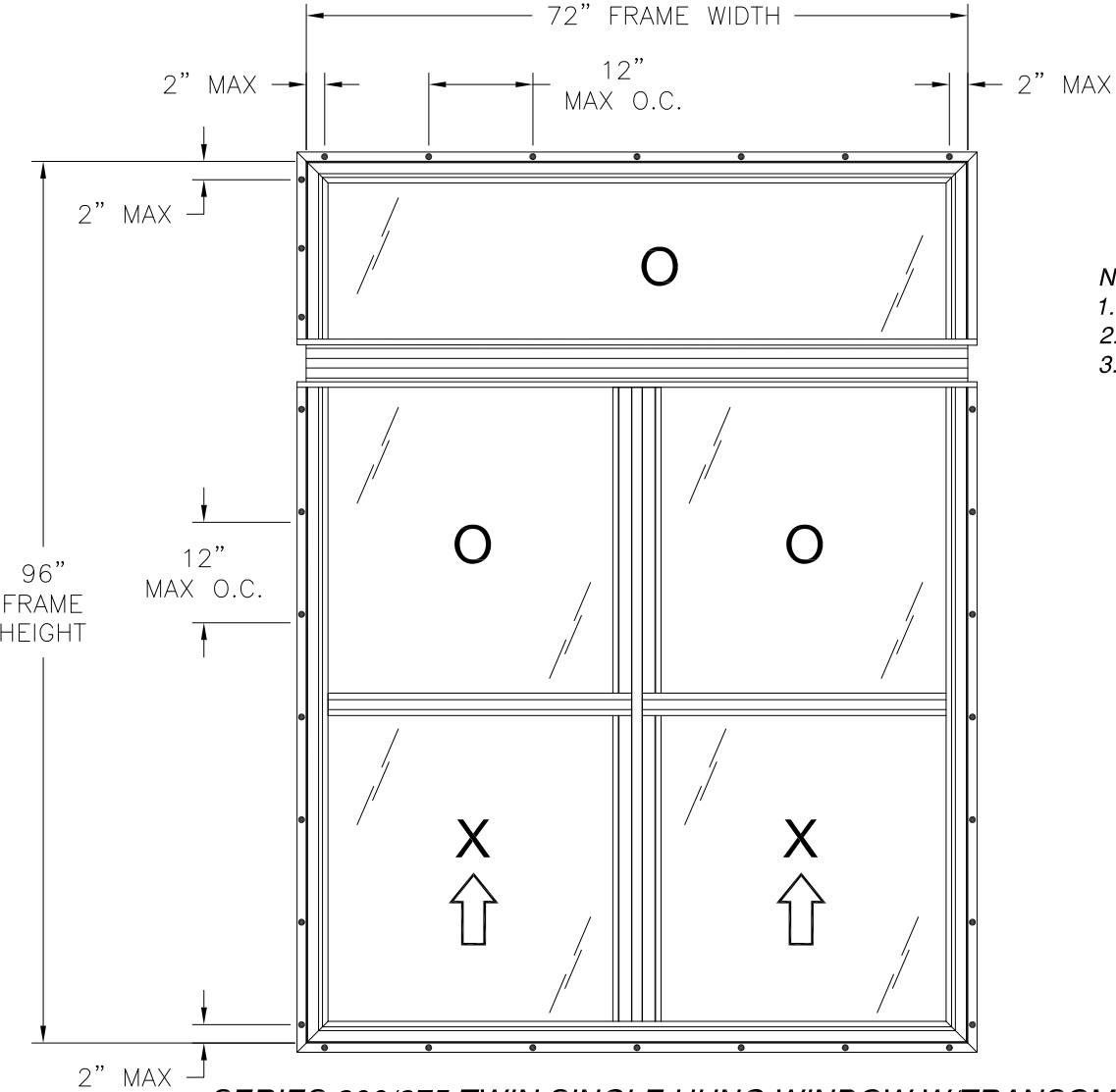
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 10/19/2023



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



- NOTES:
- SASH SIZE: 33 7/16" X 34 11/16"
 - FIXED D.L.O.: 30 5/8" X 32"
 - TRANSOM D.L.O.: 66 1/8" X 18 3/4"

SERIES 200/275 TWIN SINGLE HUNG WINDOW W/TRANSOM
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE

FOR OTHER SIZES APPROVED. SEE CHARTS #1, #2 AND #3, SHEET 3

HARDWARE SCHEDULE	
A.	PVC CAM ACTION LOCKS, 4" FROM EACH END OF SASH TOP RAIL
B.	PVC SPRING LOADED TILT LATCH AT EACH END OF SASH TOP RAIL
C.	METALLIC PIVOT BAR AT EACH END OF SASH BOTTOM RAIL
D.	ALUMINUM REINFORCEMENT (10635) IN FIXED INTERLOCK
E.	ALUMINUM REINFORCEMENT (10712) IN SASH TOP RAIL AND STILES
F.	ALUMINUM REINFORCEMENT (11175 WITH 731-A) IN T-MULLION

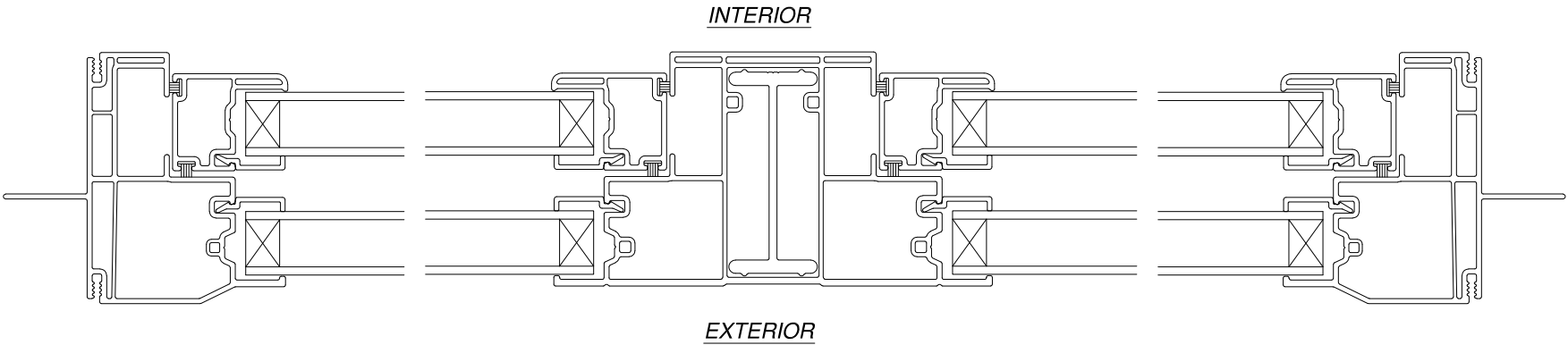
KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
200/275 VINYL TILT TWIN SINGLE HUNG WINDOW WITH TRANSOM NON-IMPACT ELEVATION		
DRAWN: A.R.	DWG NO. 08-03929	REV -
SCALE NTS	DATE 06/20/2023	SHEET 2 OF 7
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 10/19/2023



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



HORIZONTAL CROSS SECTION

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	75.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	64.9	37.7	37.7
30.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	68.6	50.0	56.2	32.6	32.6
36.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	60.7	49.7	49.7	28.8	28.8
42.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	54.7	44.8	44.8	25.9	25.9
48.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	73.9	49.8	49.8	40.8	40.8	23.6	23.6
54.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	69.1	45.7	45.7	37.4	37.4	21.7	21.7
60.0	50.0	75.0	50.0	75.0	50.0	72.0	50.0	64.3	42.2	42.2	34.6	34.6	20.1	20.1
66.0	50.0	75.0	50.0	75.0	50.0	63.5	50.0	56.3	39.2	39.2	32.2	32.2	18.7	18.7
72.0	50.0	75.0	50.0	67.5	50.0	56.8	50.0	50.0	36.6	36.6	30.0	30.0	17.4	17.4
78.0	50.0	72.5	50.0	55.3	45.2	45.2	38.7	38.7	34.4	34.4	28.2	28.2	16.4	16.4
84.0	50.0	57.9	44.1	44.1	35.9	35.9	30.6	30.6	28.1	28.1	26.5	26.5	-	-
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	75.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	62.0	50.0	50.7	29.3	29.3
30.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	74.3	50.0	55.3	45.3	45.3	26.1	26.1
36.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	69.1	50.0	50.1	41.0	41.0	23.7	23.7
42.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	65.0	45.9	45.9	37.5	37.5	21.7	21.7
48.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	61.3	42.4	42.4	34.7	34.7	20.0	20.0
54.0	50.0	75.0	50.0	75.0	50.0	72.6	50.0	58.0	39.4	39.4	32.2	32.2	18.6	18.6
60.0	50.0	75.0	50.0	75.0	50.0	68.8	50.0	55.1	36.8	36.8	30.1	30.1	17.4	17.4
66.0	50.0	75.0	50.0	75.0	50.0	63.5	50.0	52.4	34.5	34.5	28.3	28.3	16.3	16.3
72.0	50.0	75.0	50.0	67.5	50.0	56.8	50.0	50.0	32.5	32.5	26.6	26.6	-	-
78.0	50.0	72.5	50.0	55.3	45.2	45.2	38.7	38.7	30.7	30.7	25.1	25.1	-	-
84.0	50.0	57.9	44.1	44.1	35.9	35.9	30.6	30.6	28.1	28.1	23.8	23.8	-	-
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	-	-	-	-	-	-	-	-

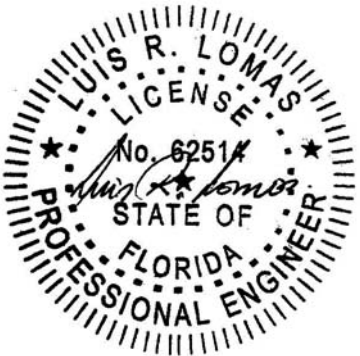
Chart #3

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	75.0	50.0	75.0	50.0	75.0	50.0	69.1	50.0	52.8	43.0	43.0	24.7	24.7
30.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	64.0	47.9	47.9	39.0	39.0	22.4	22.4
36.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	60.2	43.9	43.9	35.8	35.8	20.5	20.5
42.0	50.0	75.0	50.0	75.0	50.0	72.6	50.0	57.0	40.7	40.7	33.2	33.2	19.0	19.0
48.0	50.0	75.0	50.0	75.0	50.0	68.8	50.0	54.2	37.9	37.9	30.9	30.9	17.7	17.7
54.0	50.0	75.0	50.0	75.0	50.0	65.3	50.0	51.6	35.5	35.5	29.0	29.0	16.6	16.6
60.0	50.0	75.0	50.0	75.0	50.0	62.2	49.2	49.2	33.3	33.3	27.2	27.2	-	-
66.0	50.0	75.0	50.0	75.0	50.0	59.4	47.1	47.1	31.4	31.4	25.7	25.7	-	-
72.0	50.0	75.0	50.0	67.5	50.0	56.8	45.1	45.1	29.8	29.8	24.3	24.3	-	-
78.0	50.0	72.5	50.0	55.3	45.2	45.2	38.7	38.7	28.2	28.2	23.1	23.1	-	-
84.0	50.0	57.9	44.1	44.1	35.9	35.9	30.6	30.6	26.9	26.9	22.0	22.0	-	-
90.0	47.0	47.0	35.7	35.7	29.0	29.0	24.7	24.7	22.5	22.5	21.0	21.0	-	-
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	-	-	-	-	-	-	-	-

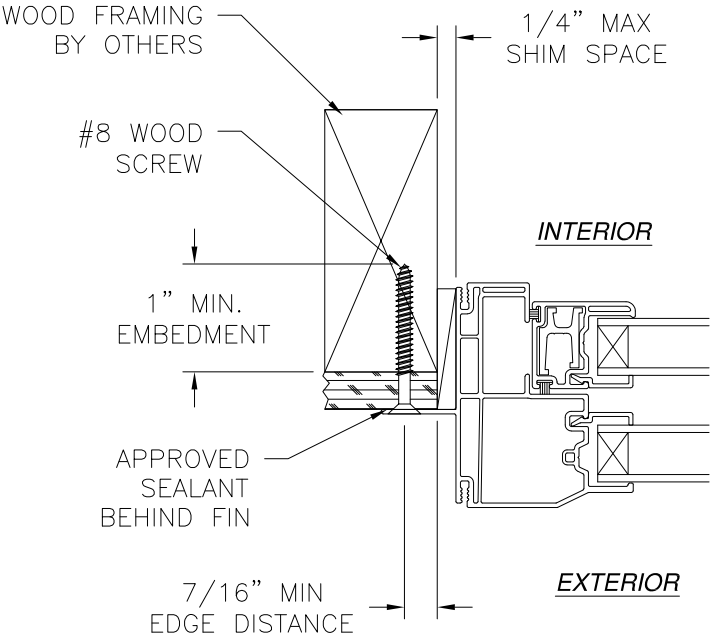
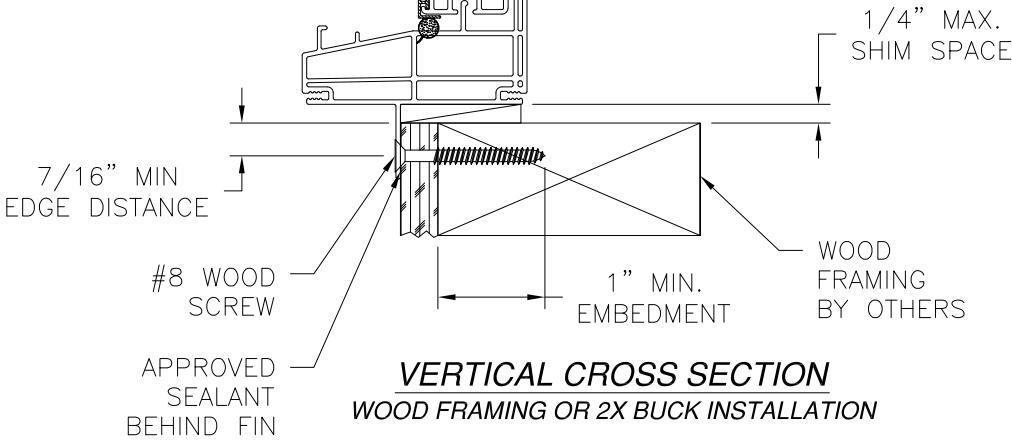
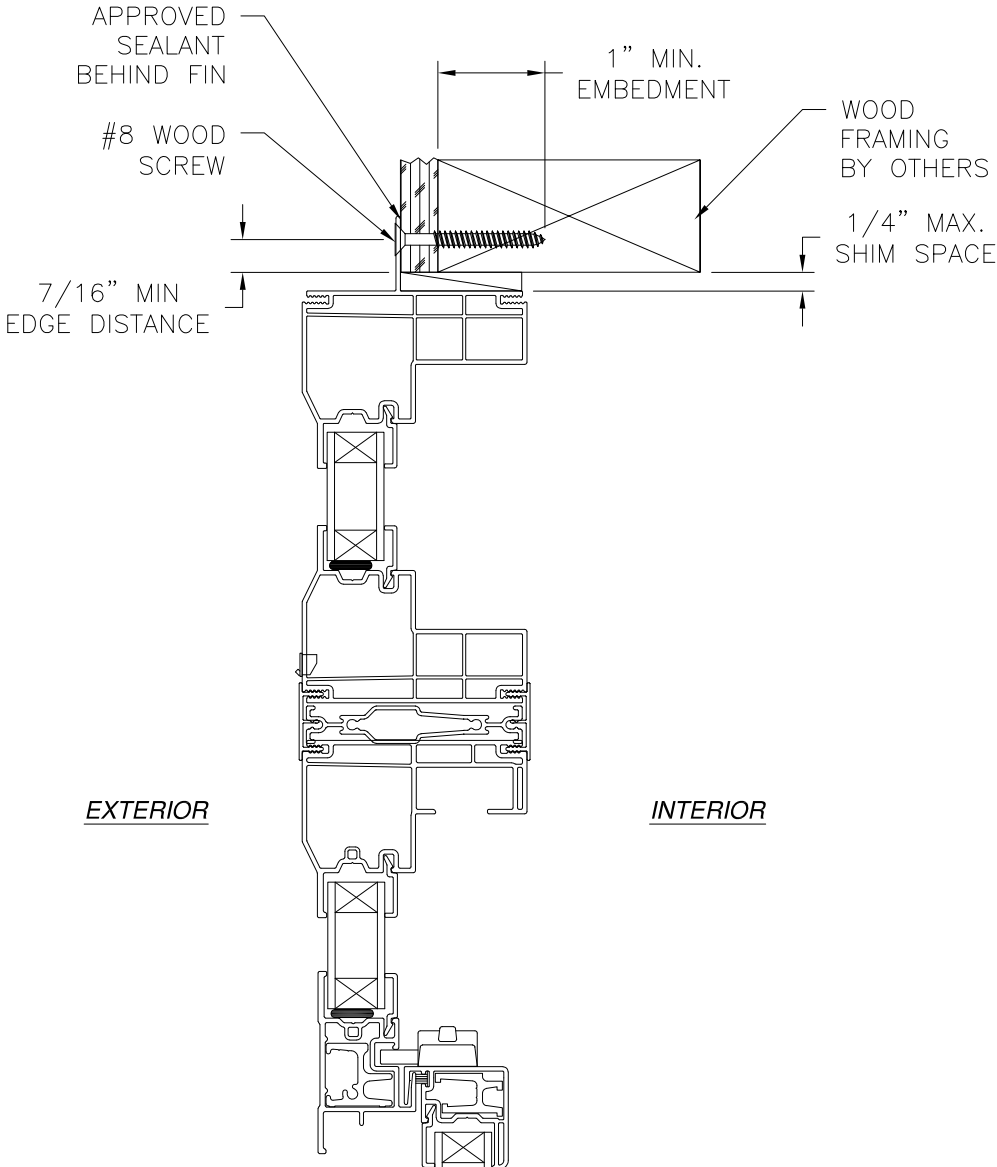
SIGNED: 10/19/2023

KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
200/275 VINYL TILT TWIN SINGLE HUNG WINDOW WITH TRANSOM NON-IMPACT DP CHARTS AND HORIZONTAL CROSS SECTION		
DRAWN: A.R.	DWG NO. 08-03929	REV -
SCALE NTS	DATE 06/20/2023	SHEET 3 OF 7
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



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: 10/19/2023

KRESTMARK INDUSTRIES, L.P.

3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

200/275 VINYL TILT TWIN SINGLE HUNG WINDOW
WITH TRANSOM NON-IMPACT
INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03929

REV -

SCALE NTS

DATE 06/20/2023

SHEET 4 OF 7

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

1/4" MAX. SHIM SPACE

METAL STRUCTURE BY OTHERS

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

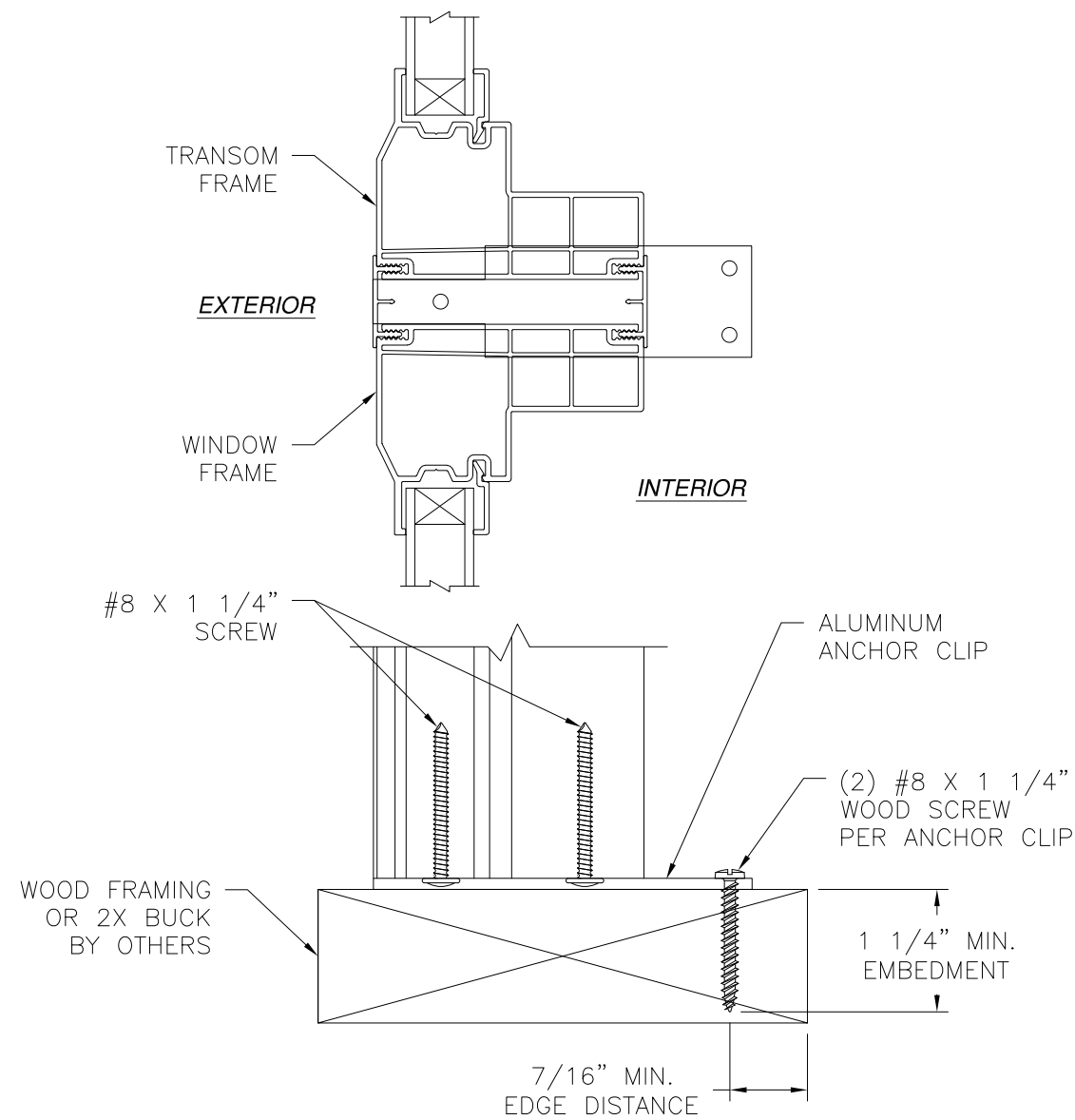
SIGNED: 10/19/2023

KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
200/275 VINYL TILT TWIN SINGLE HUNG WINDOW WITH TRANSOM NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03929	REV -
SCALE NTS	DATE 06/20/2023	SHEET 5 OF 7
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

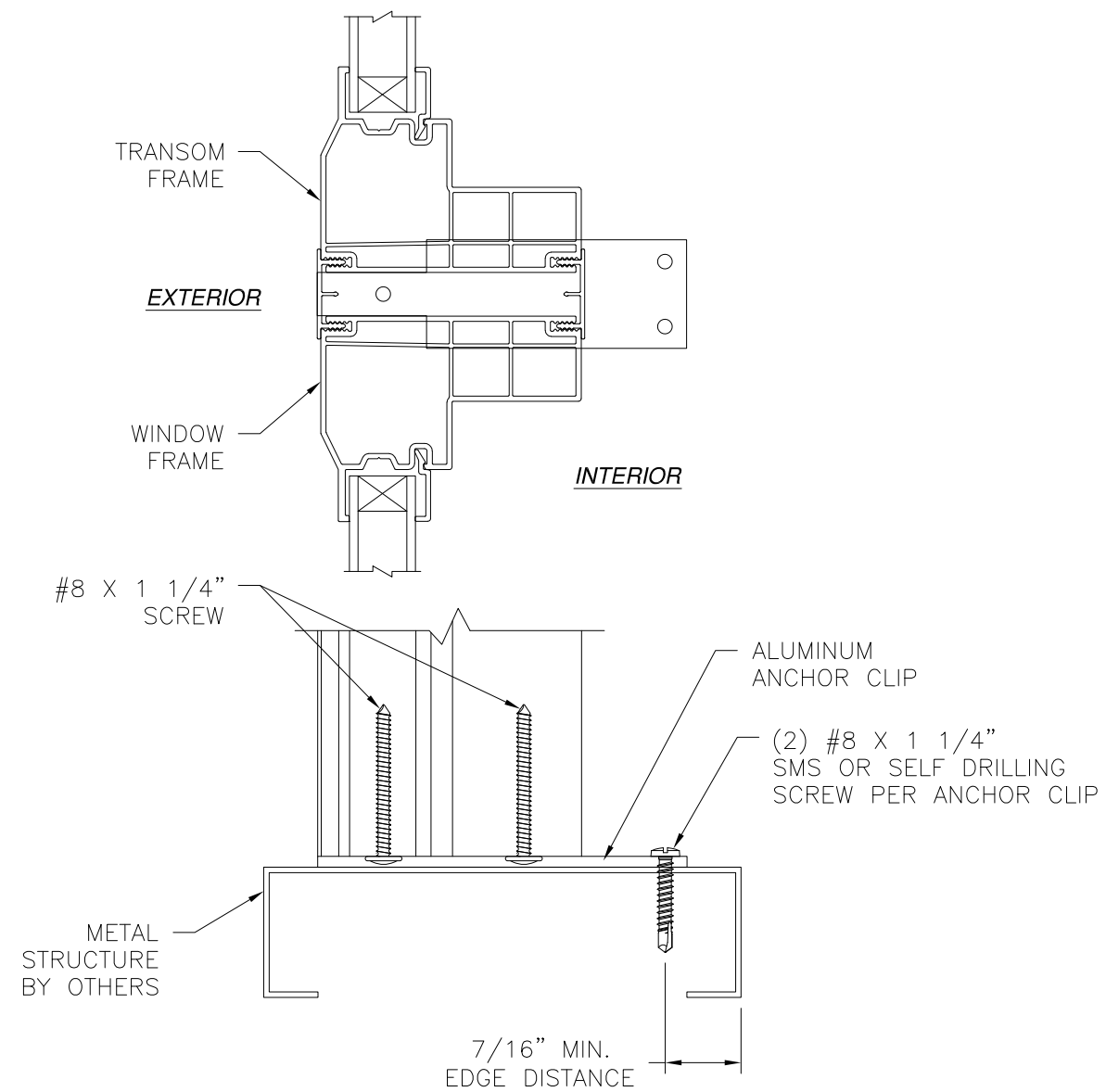


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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



HORIZONTAL MULLION ANCHOR CLIP DETAIL
METAL STRUCTURE INSTALLATION

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: 10/19/2023

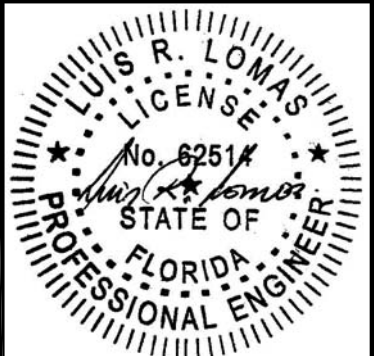
KRESTMARK INDUSTRIES, L.P.

3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

200/275 VINYL TILT TWIN SINGLE HUNG WINDOW
WITH TRANSOM NON-IMPACT
INSTALLATION DETAILS

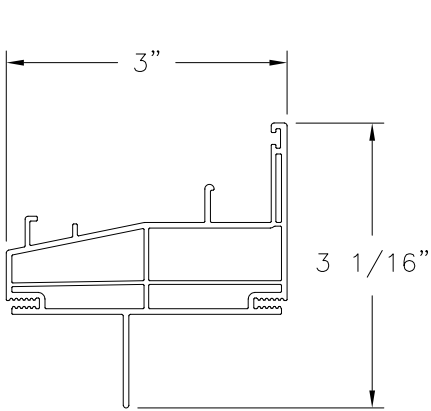
DRAWN: A.R.	DWG NO. 08-03929	REV -
SCALE NTS	DATE 06/20/2023	SHEET 6 OF 7

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

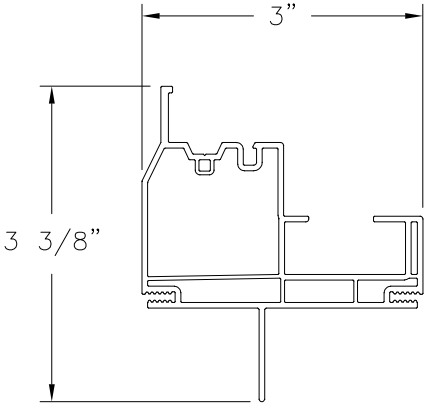


Luis R. Lomas P.E.
FL No.: 62514

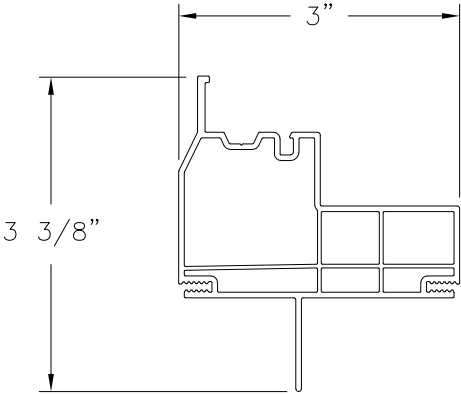
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



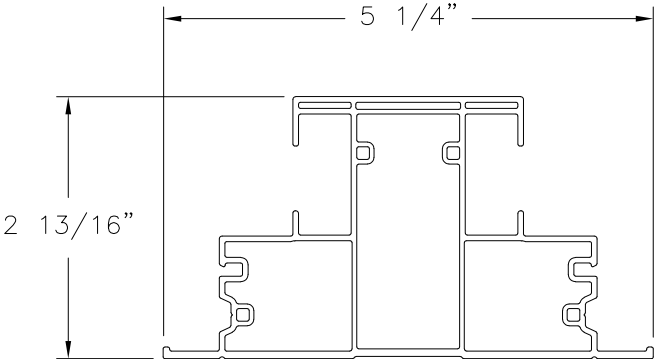
SILL FRAME (CH9202)
EXTRUDED RIGID PVC



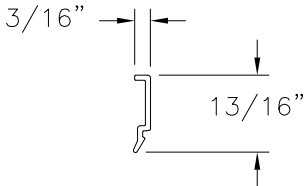
JAMB FRAME (CH9203)
EXTRUDED RIGID PVC



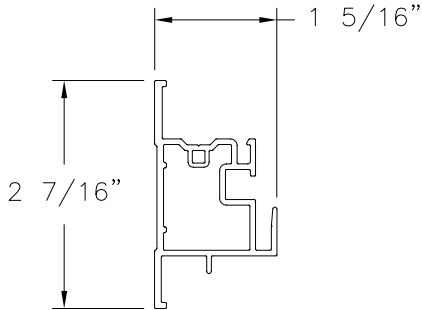
HEAD FRAME (CH9201)
EXTRUDED RIGID PVC



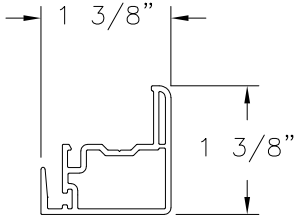
INTERMEDIATE JAMB (9286)
EXTRUDED RIGID PVC



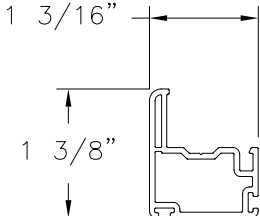
GLAZING BEAD (1703-R)
EXTRUDED RIGID PVC



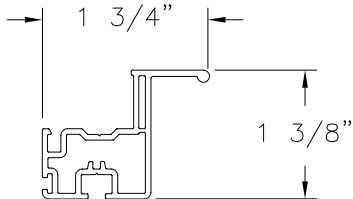
MEETING RAIL (CH9207)
EXTRUDED RIGID PVC



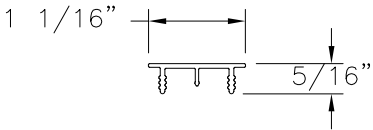
LOCK RAIL (CH9006)
EXTRUDED RIGID PVC



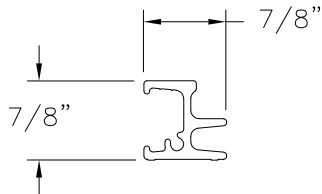
SASH STILE (CH9008)
EXTRUDED RIGID PVC



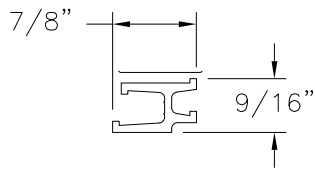
LIFT RAIL (CH9005)
EXTRUDED RIGID PVC



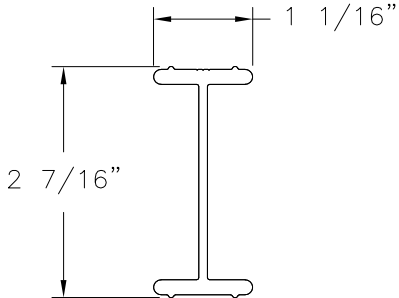
MULLION CAP (1704-R)
EXTRUDED RIGID PVC



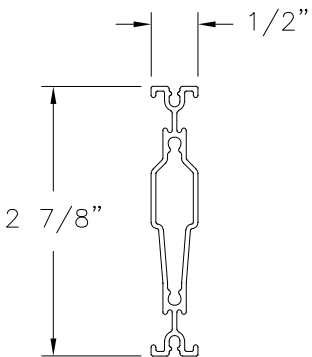
**MEETING RAIL
REINFORCEMENT (10635)**
ALUMINUM 6005-T5



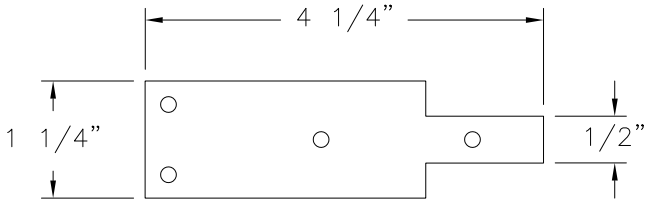
**LOCK RAIL/STILE
REINFORCEMENT (10712)**
ALUMINUM 6005-T5



**INTERMEDIATE JAMB
REINFORCEMENT (14868)**
ALUMINUM 6063-T5



**TRANSOM
REINFORCEMENT (12239-H)**
ALUMINUM 6063-T5



ANCHOR CLIP
ALUMINUM 6061-T6

SIGNED: 10/19/2023

KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
200/275 VINYL TILT TWIN SINGLE HUNG WINDOW WITH TRANSOM NON-IMPACT COMPONENTS		
DRAWN: A.R.	DWG NO. 08-03929	REV -
SCALE NTS	DATE 06/20/2023	SHEET 7 OF 7
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