

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED CHARTS AND INTL DETAILS	10/02/26	R.L.

NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 2. WOOD FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 4. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
- 5. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
- 6. SINGLE WINDOWS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. WINDOWS MUST BE MANUFACTURED BY VIWINCO INC.
- 7. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT.
- 8. UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.
- 9. MULLION VERTICAL INSTALLATION IS SHOWN, MULLION MAY BE USED IN HORIZONTAL APPLICATIONS AS LONG AS DIMENSIONS INDICATED HEREIN ARE NOT EXCEEDED AND MULLION IS ANCHORED ACCORDING TO THIS DOCUMENT.

ANCHORING NOTES:

- 1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 3.
- 2. FOR ANCHORING INTO CONCRETE USE 3/16" TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 4.
- 3. FOR ANCHORING 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.
- 4. ALL FASTENERS TO BE CORROSION RESISTANT.
- 5. 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:
 - 5.A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 5.B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.
 - 5.C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 5.D. METAL STRUCTURE: STEEL 18GA (.058") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .125" THICK MINIMUM

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VIWINCO, INC.
MORGANTOWN BUSINESS PARK P.O. BOX 499
MORGANTOWN, PA 19543

SS-CAMBRIDGE ALUMINUM VERTICAL MULLION
IMPACT
NOTES

DRAWN:
R.L.

DWG NO.
08-02806

REV
C

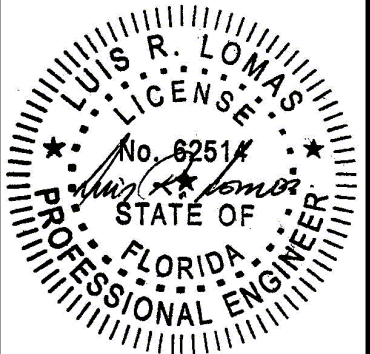
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DATE 08/23/15

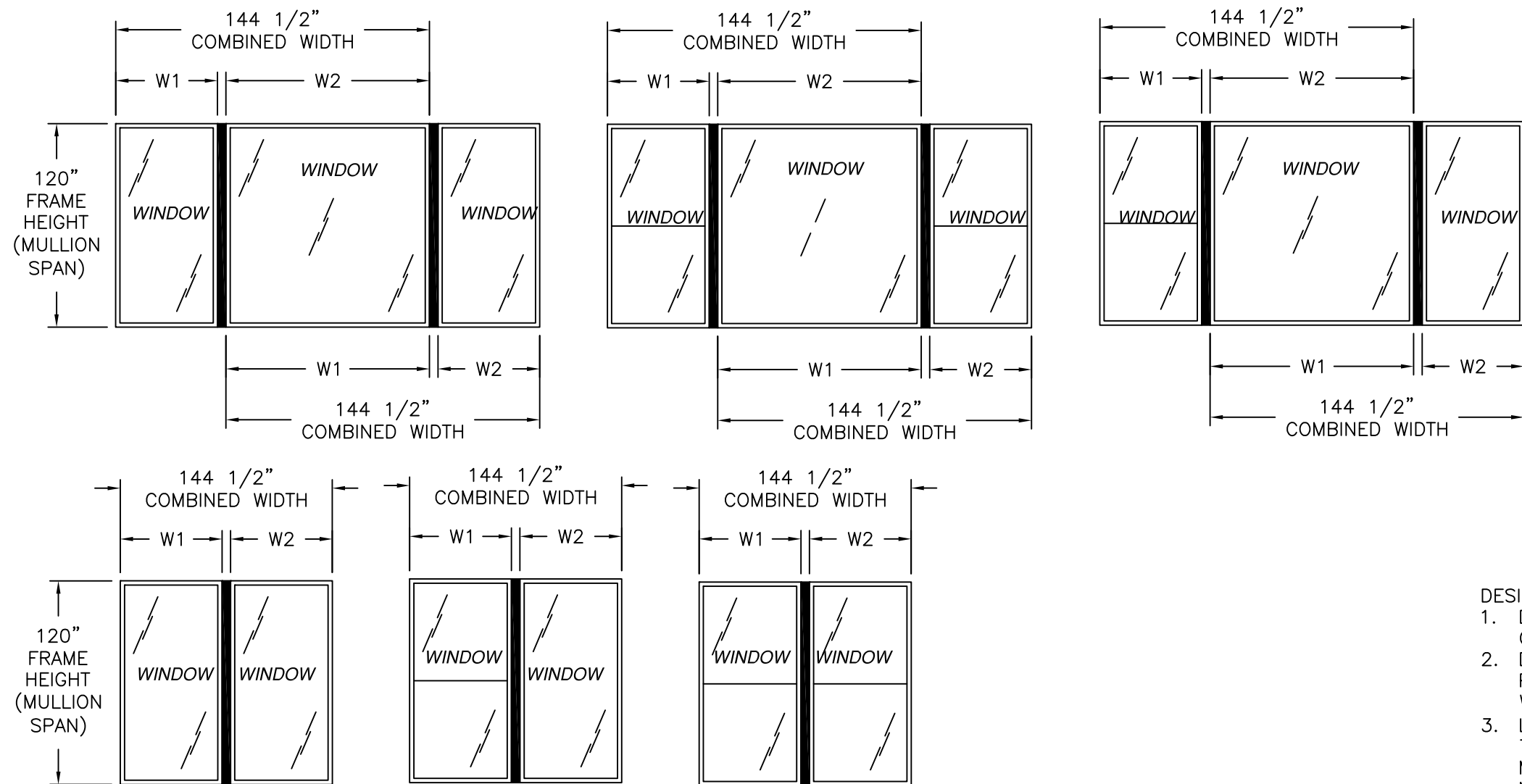
SHEET 1 OF 7

L. ROBERTO LOMAS P.E.
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SIGNED: 10/02/2026



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



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- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
 2. DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
 3. LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

APPROVED CONFIGURATIONS

Chart #1
Mullion rating (psf)

Mullion span (in)	Tributary width (in)								
	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00
24.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60.00	120.0	120.0	120.0	120.0	120.0	118.3	117.1	117.1	117.1
66.00	120.0	120.0	120.0	111.5	104.6	100.1	97.6	96.8	96.8
72.00	120.0	120.0	108.4	98.4	91.5	86.8	83.7	81.9	81.3
78.00	120.0	111.5	97.6	88.1	81.3	76.5	73.2	71.0	69.7
84.00	120.0	101.8	88.7	79.7	73.2	68.5	65.1	62.6	61.0
90.00	112.6	93.7	81.3	72.7	66.5	62.0	58.6	56.0	54.2
96.00	104.6	86.8	75.1	66.9	61.0	56.6	53.2	50.7	48.8
102.00	97.6	80.8	69.7	62.0	56.3	52.1	48.8	46.3	44.4
108.00	91.5	75.6	65.1	57.7	52.3	48.2	45.0	42.6	40.7
114.00	86.1	71.0	61.0	54.0	48.8	44.9	41.8	39.0	36.6
120.00	81.3	66.9	56.7	49.3	43.8	39.6	36.4	33.8	31.8

IMPACT RATED UP TO WIND ZONE 3

VIWINCO, INC.
MORGANTOWN BUSINESS PARK P.O. BOX 499
MORGANTOWN, PA 19543

SS-CAMBRIDGE ALUMINUM VERTICAL MULLION
IMPACT
APPROVED CONFIGURATIONS

DRAWN:
R.L.

DWG NO.
08-02806

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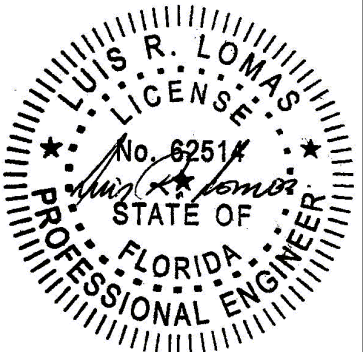
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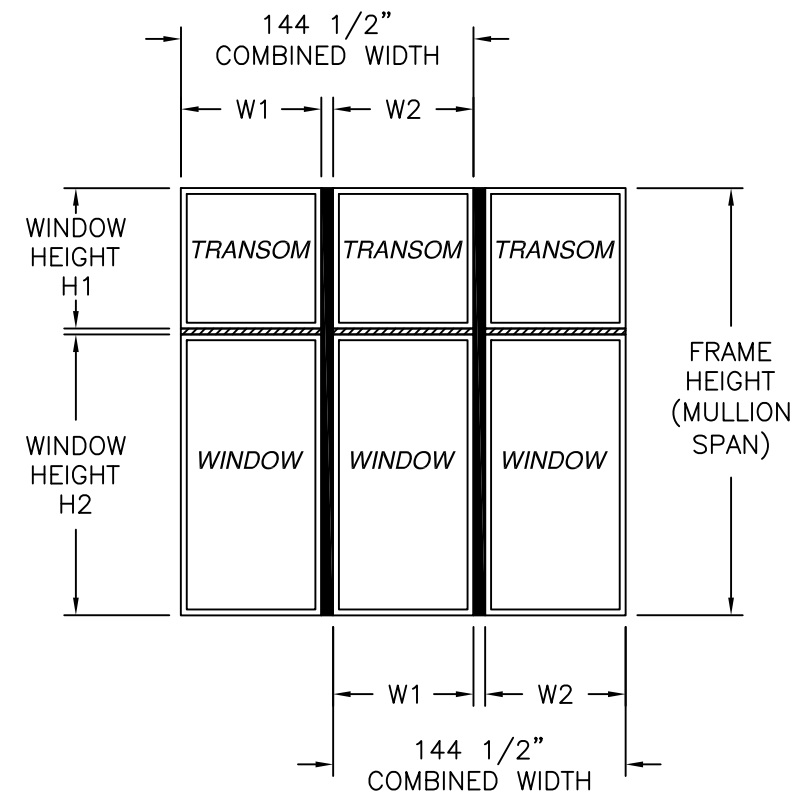
SHEET
2 OF 7

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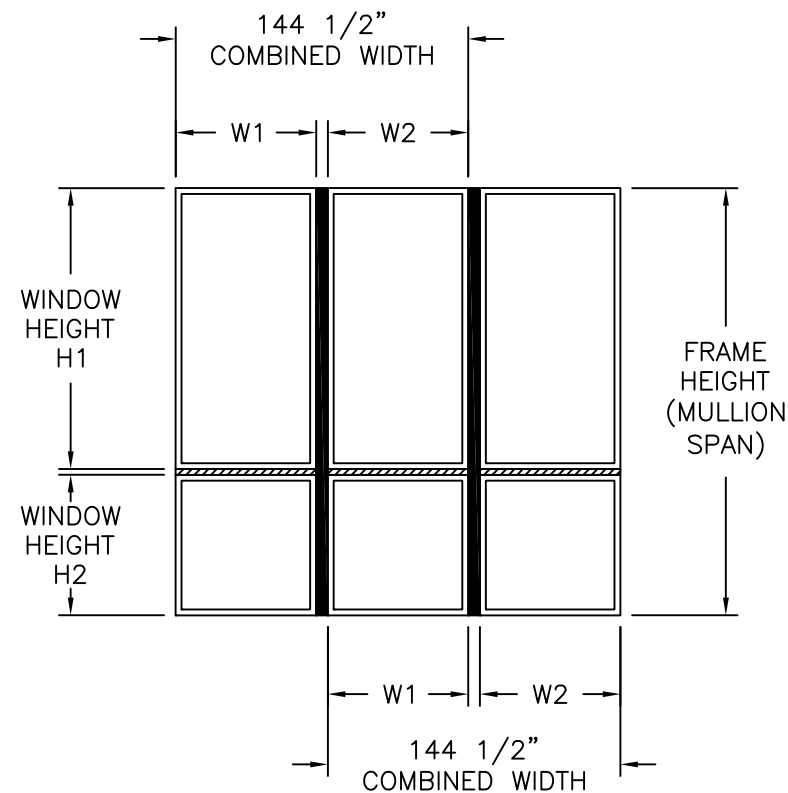
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VX CONFIGURATION



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TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

Chart #2

Rating for units with 18" small window (psf)

Height (in)		Tributary width (in)									
H1	H2	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00	
24.00	18.00	120.0	120.0	120.0	120.0	120.0	113.2	104.1	96.4	89.7	
30.00	18.00	120.0	120.0	120.0	118.3	107.4	98.4	90.8	84.3	78.6	
36.00	18.00	120.0	120.0	116.5	103.6	94.1	86.4	79.9	74.4	69.5	
42.00	18.00	120.0	120.0	104.1	92.2	83.4	76.5	71.0	66.2	62.0	
48.00	18.00	120.0	109.5	94.1	83.1	74.8	68.5	63.5	59.3	55.6	
54.00	18.00	118.9	98.2	84.5	74.8	67.7	62.0	57.3	53.5	50.3	
60.00	18.00	101.9	84.0	72.1	63.8	57.6	52.9	49.3	46.4	44.1	
66.00	18.00	88.2	72.6	62.2	54.9	49.6	45.4	42.2	39.7	37.6	
72.00	18.00	77.1	63.3	54.2	47.8	43.0	39.4	36.6	34.3	32.5	

IMPACT RATED UP TO WIND ZONE 3

Chart #3

Rating for units with 24" small window (psf)

Height (in)		Tributary width (in)									
H1	H2	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00	
24.00	24.00	120.0	120.0	120.0	120.0	110.5	101.0	93.0	86.1	80.2	
30.00	24.00	120.0	120.0	119.5	107.0	97.2	89.1	82.2	76.3	71.2	
36.00	24.00	120.0	120.0	106.5	94.8	86.1	79.1	73.2	68.1	63.7	
42.00	24.00	120.0	111.0	96.0	85.2	77.1	70.8	65.6	61.2	57.3	
48.00	24.00	120.0	101.4	87.1	76.9	69.3	63.5	58.9	55.2	51.8	
54.00	24.00	105.6	86.9	74.4	65.6	59.0	54.0	50.1	46.9	44.3	
60.00	24.00	91.4	75.1	64.2	56.5	50.8	46.5	43.0	40.3	38.0	
66.00	24.00	79.8	65.5	56.0	49.2	44.2	40.3	37.3	34.9	32.9	
72.00	24.00	70.3	57.6	49.2	43.2	38.7	35.3	32.6	30.5	28.7	

IMPACT RATED UP TO WIND ZONE 3

Chart #4

Rating for units with 30" small window (psf)

Height (in)		Tributary width (in)									
H1	H2	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00	
24.00	30.00	120.0	120.0	120.0	108.9	98.8	90.4	83.4	77.3	72.1	
30.00	30.00	120.0	120.0	107.9	96.8	88.1	80.8	74.6	69.3	64.7	
36.00	30.00	120.0	111.5	97.2	86.8	78.9	72.5	67.1	62.5	58.4	
42.00	30.00	120.0	101.8	88.4	78.5	70.6	64.4	59.4	55.1	51.4	
48.00	30.00	108.5	89.2	76.3	67.1	60.2	55.0	50.8	47.3	44.2	
54.00	30.00	94.0	77.1	65.9	57.9	52.0	47.3	43.7	40.7	38.2	
60.00	30.00	82.2	67.3	57.5	50.5	45.2	41.2	37.9	35.4	33.2	
66.00	30.00	72.4	59.2	50.5	44.3	39.7	36.1	33.2	30.9	29.1	
72.00	30.00	64.2	52.5	44.7	39.2	35.0	31.8	29.3	27.3	25.6	

IMPACT RATED UP TO WIND ZONE 3

Chart #5

Rating for units with 36" small window (psf)

Height (in)		Tributary width (in)									
H1	H2	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00	
24.00	36.00	120.0	120.0	108.4	97.6	88.7	81.3	75.1	69.7	65.1	
30.00	36.00	120.0	111.5	97.6	87.7	79.9	73.4	67.9	63.1	59.0	
36.00	36.00	120.0	101.8	88.7	79.4	71.6	65.1	59.6	55.1	51.1	
42.00	36.00	110.6	90.7	77.6	68.3	61.2	55.7	51.2	47.4	44.1	
48.00	36.00	96.0	78.7	67.2	59.0	52.9	48.1	44.3	41.1	38.3	
54.00	36.00	84.0	68.8	58.7	51.5	46.0	41.8	38.5	35.8	33.5	
60.00	36.00	74.1	60.6	51.6	45.2	40.4	36.7	33.8	31.4	29.4	
66.00	36.00	65.7	53.7	45.7	40.0	35.8	32.4	29.8	27.7	25.9	
72.00	36.00	58.7	47.9	40.7	35.6	31.8	28.9	26.5	24.6	23.0	

IMPACT RATED UP TO WIND ZONE 3

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MORGANTOWN, PA 19543

SS-CAMBRIDGE ALUMINUM VERTICAL MULLION
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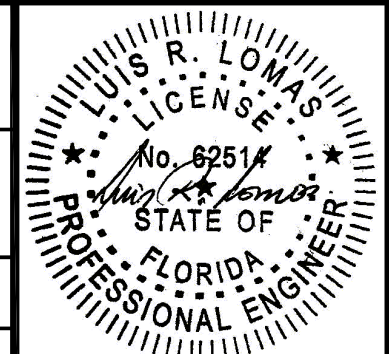
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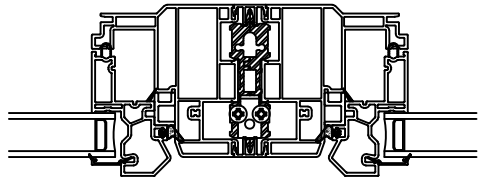
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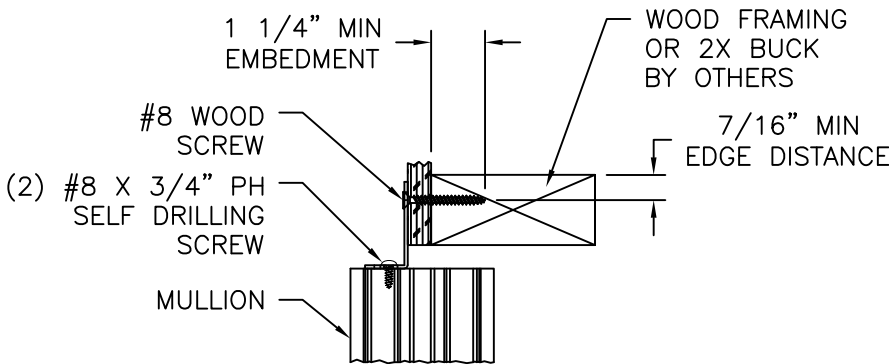
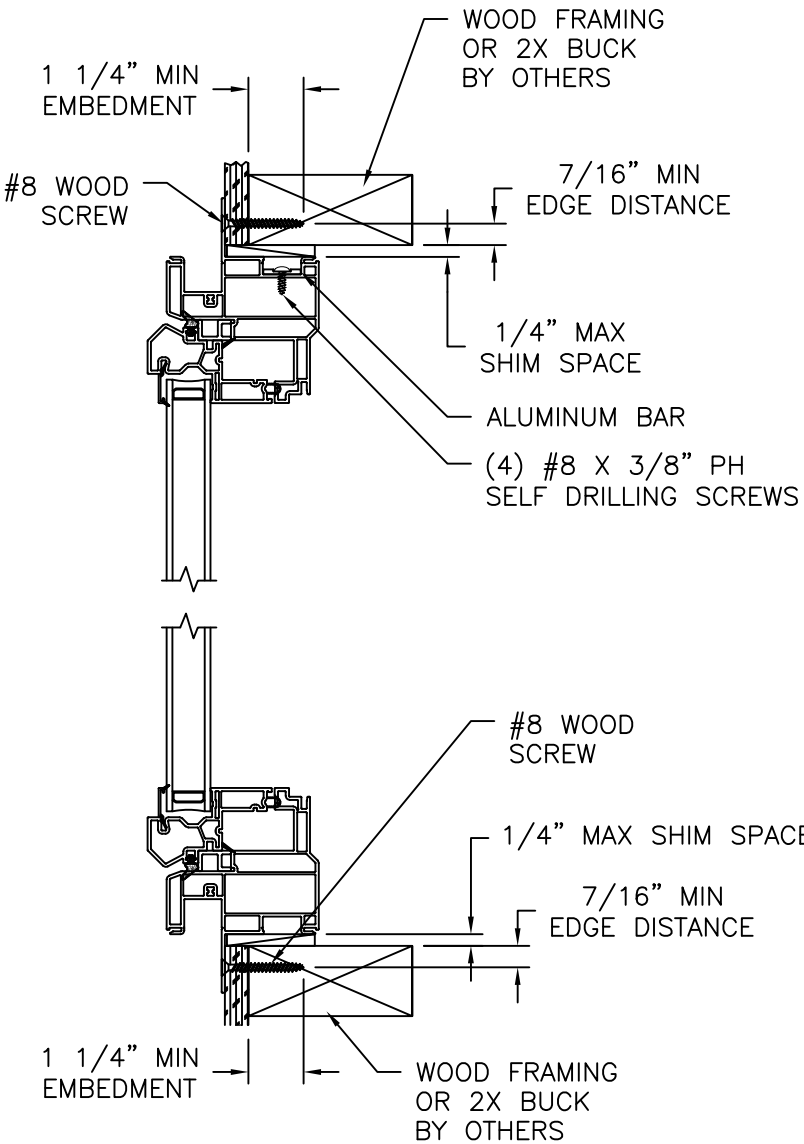
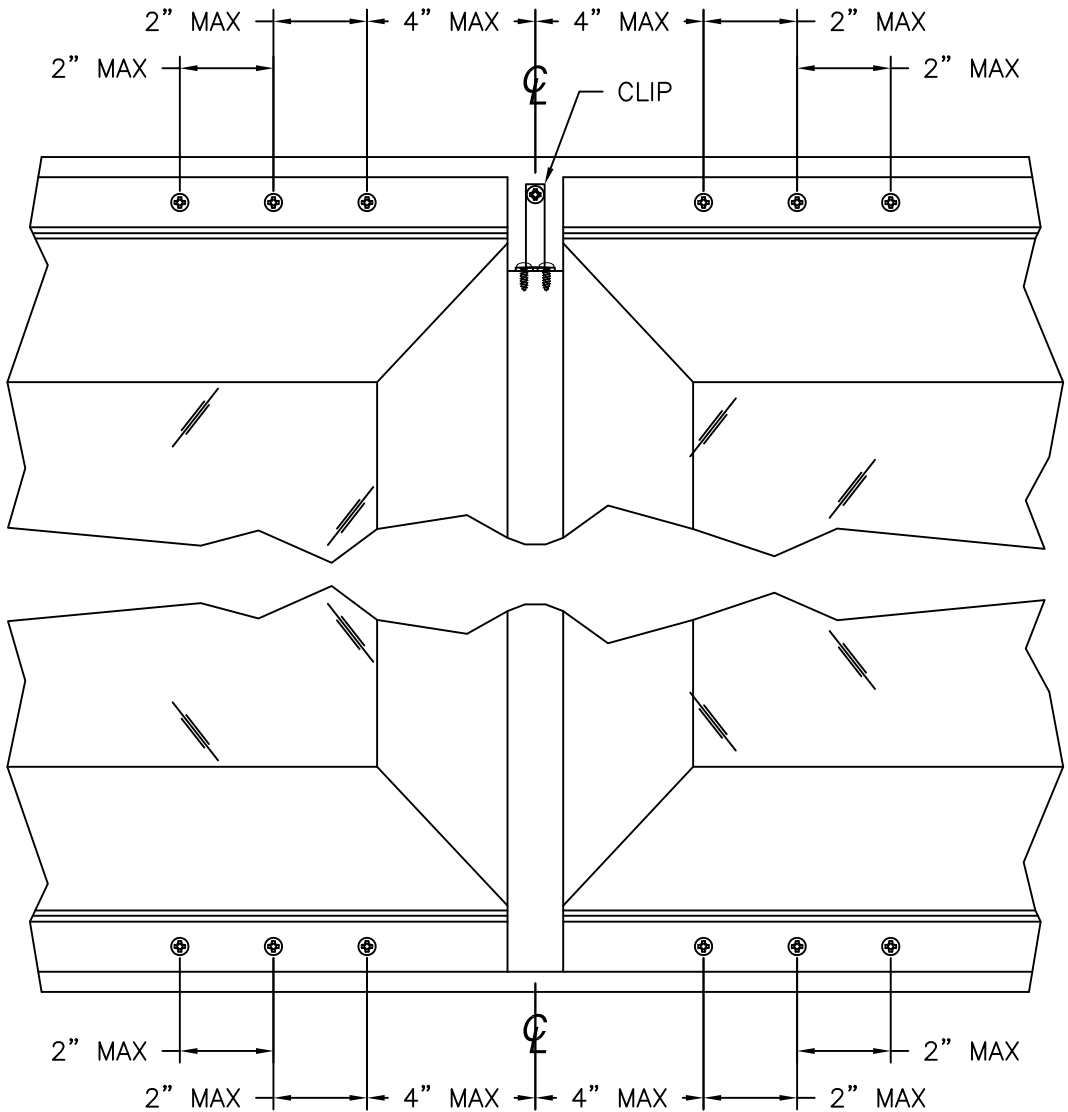
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Luis R. Lomas P.E.
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CLIP INSTALLATION DETAIL
WINDOW FRAME NOT SHOWN FOR CLARITY

MULLION INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK SUBSTRATE

Anchors and anchor connectors corrosion resistance chart		
Exposure	Distance from coastal shoreline	
	0' up to 300'	>300' up to 3000'
Exterior - partially sheltered	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Exterior - open exposed	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-vented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-unvented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S

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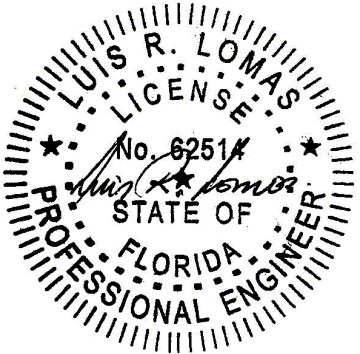
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SHEET
4 OF 7

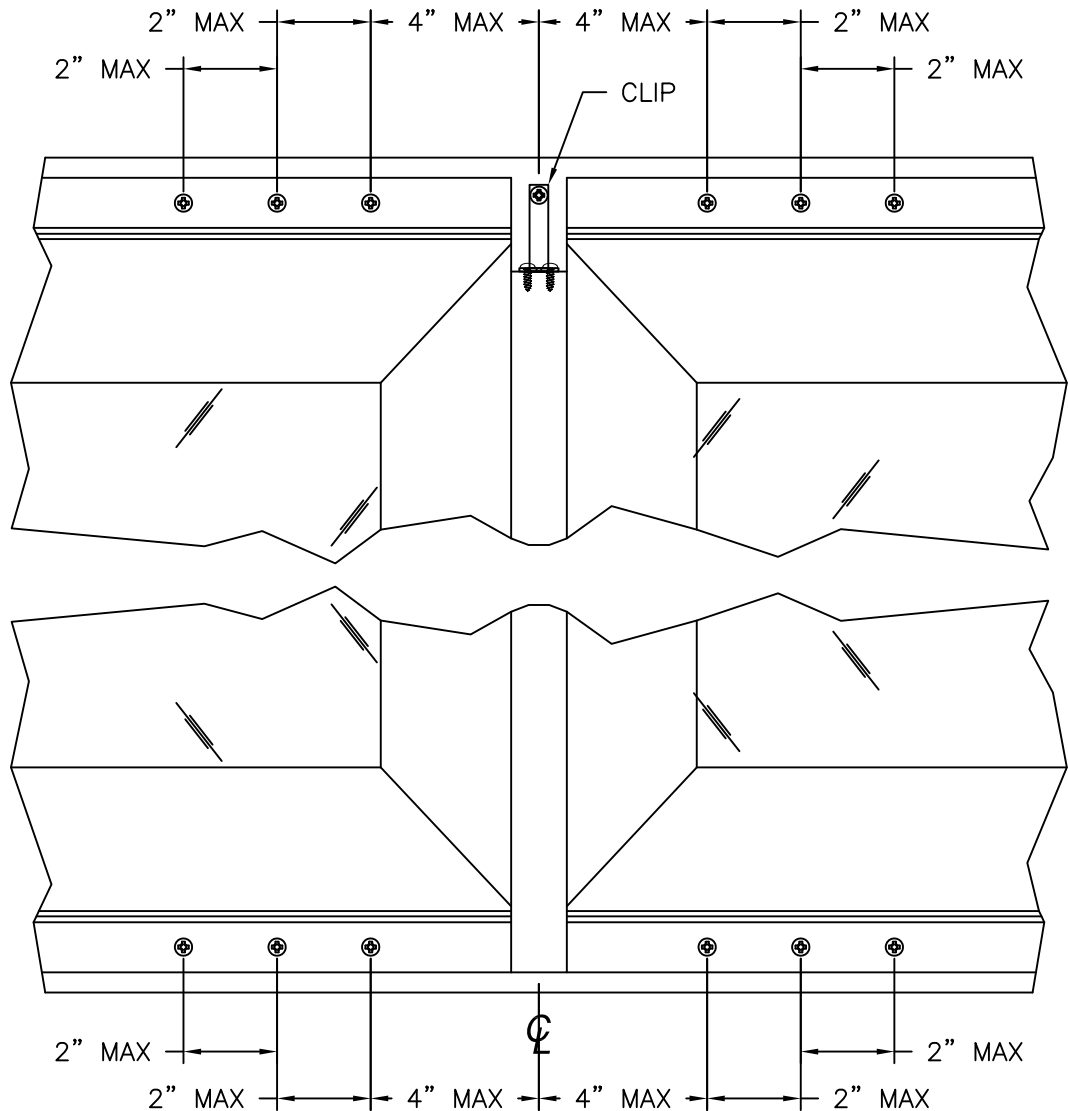
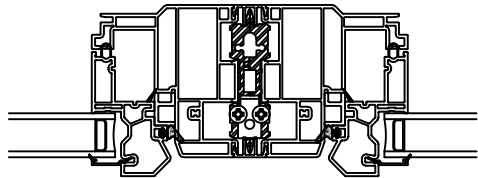
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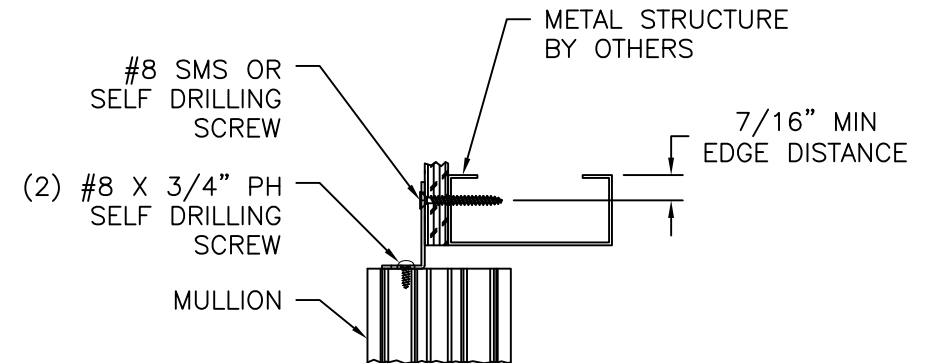
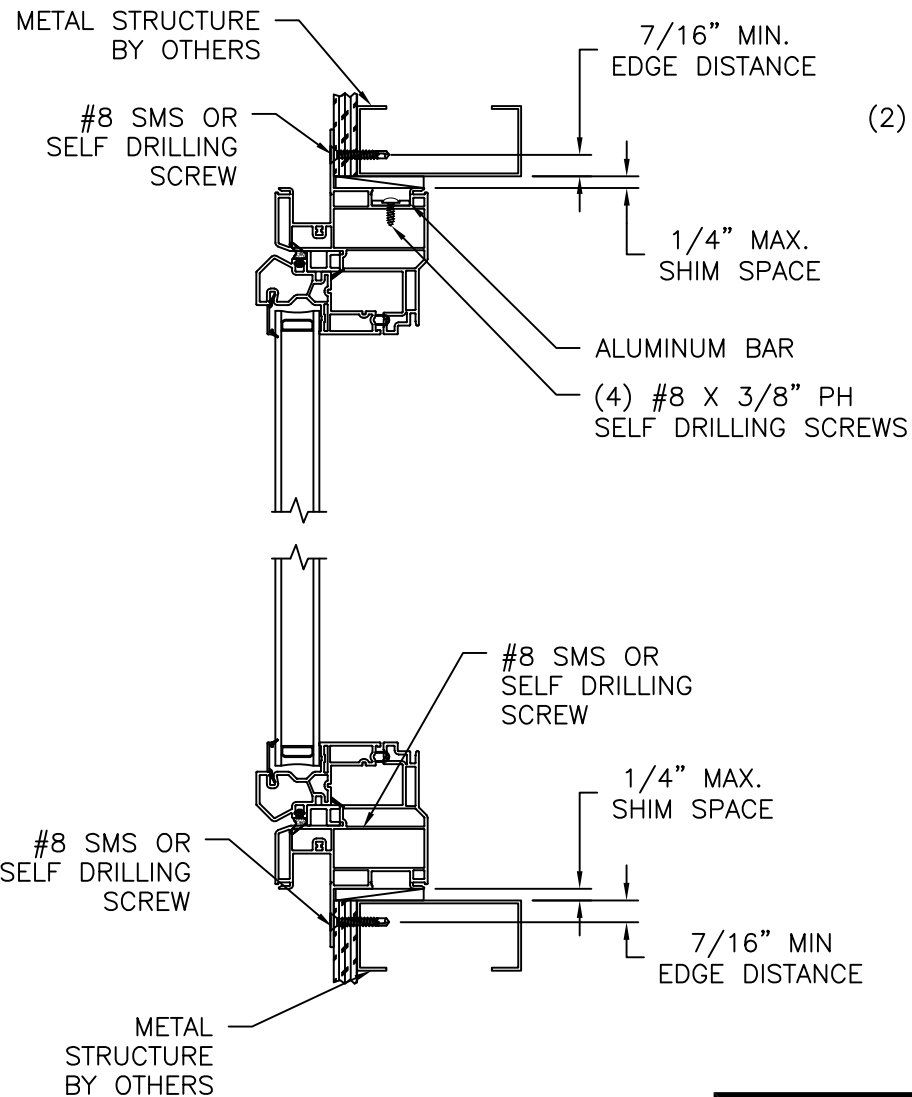


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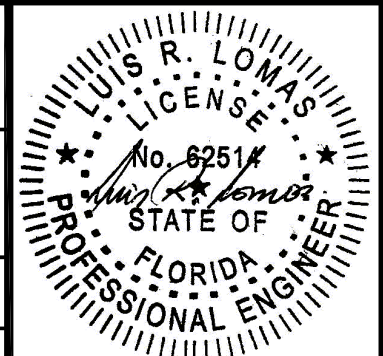
MULLION INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



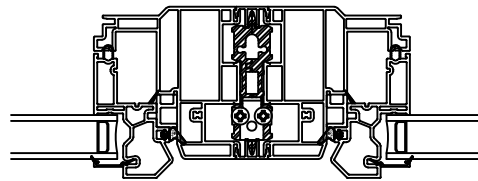
CLIP INSTALLATION DETAIL
WINDOW FRAME NOT SHOWN FOR CLARITY

VIWINCO, INC. MORGANTOWN BUSINESS PARK P.O. BOX 499 MORGANTOWN, PA 19543		
SS-CAMBRIDGE ALUMINUM VERTICAL MULLION IMPACT INSTALLATION DETAILS		
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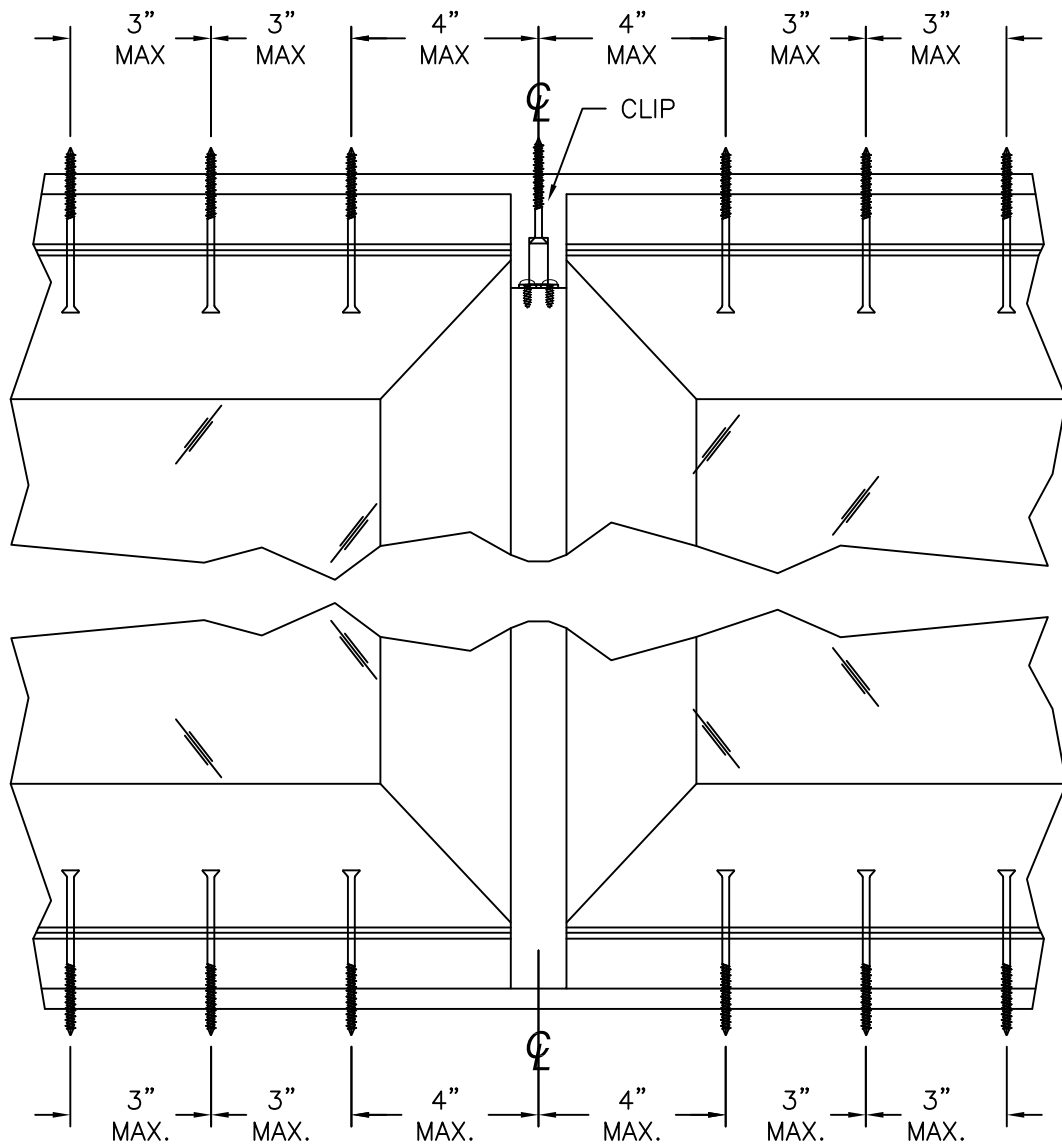
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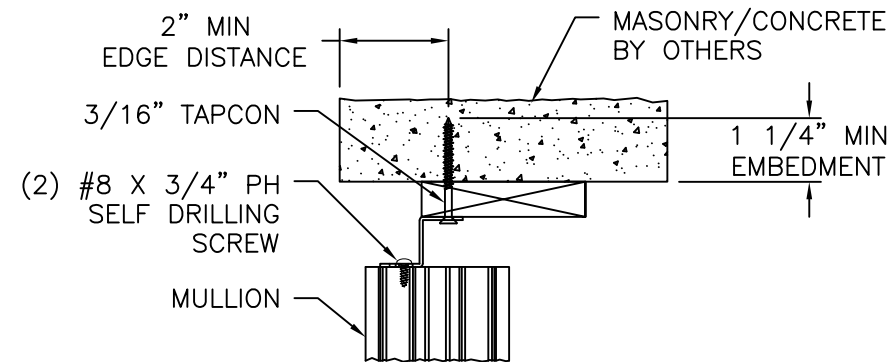
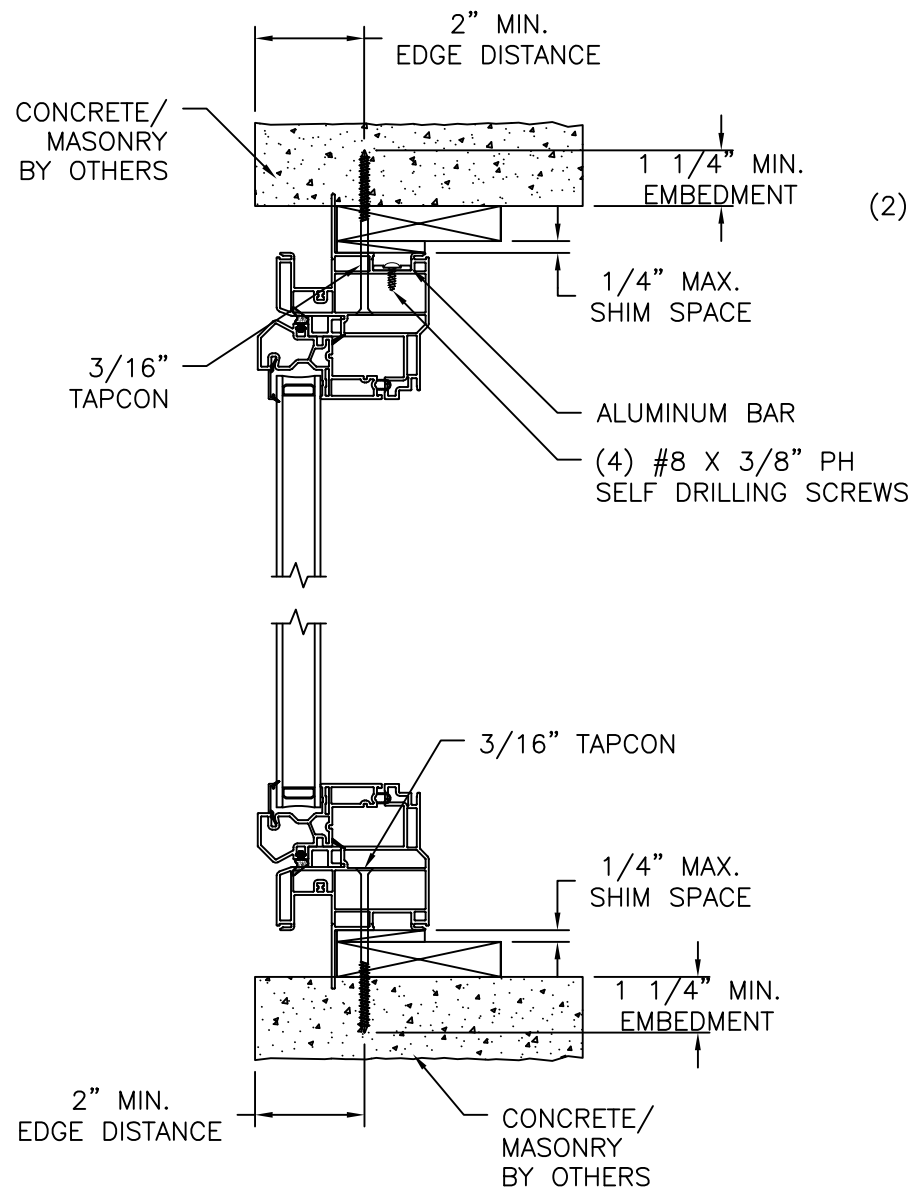
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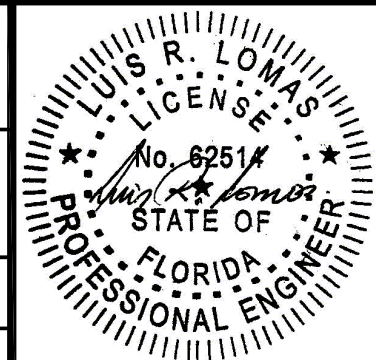
MULLION INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION



CLIP INSTALLATION DETAIL
WINDOW FRAME NOT SHOWN FOR CLARITY

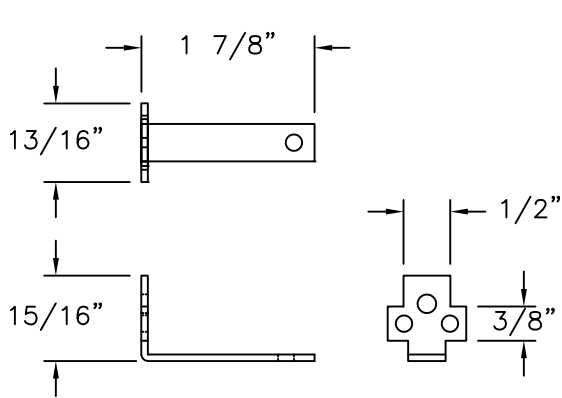
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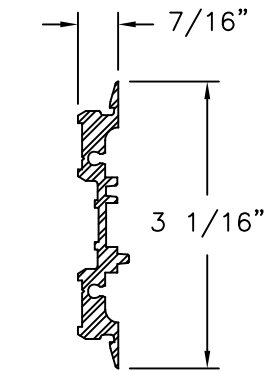


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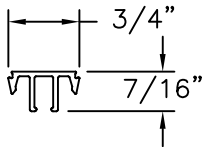
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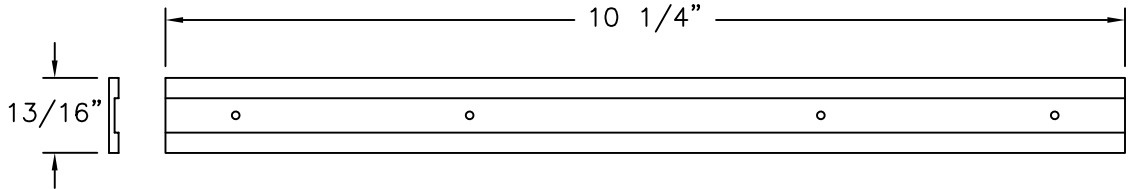
CLIP DETAIL
GALVANIZED STEEL .070" THICK



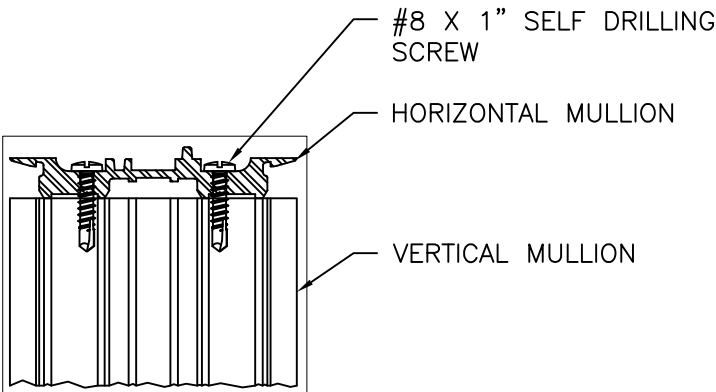
MULLION PART 2411-A
ALUMINUM 6105-T5
MOMENT OF INERTIA: .4048 IN^4
SECTION MODULUS: .2614 IN^3



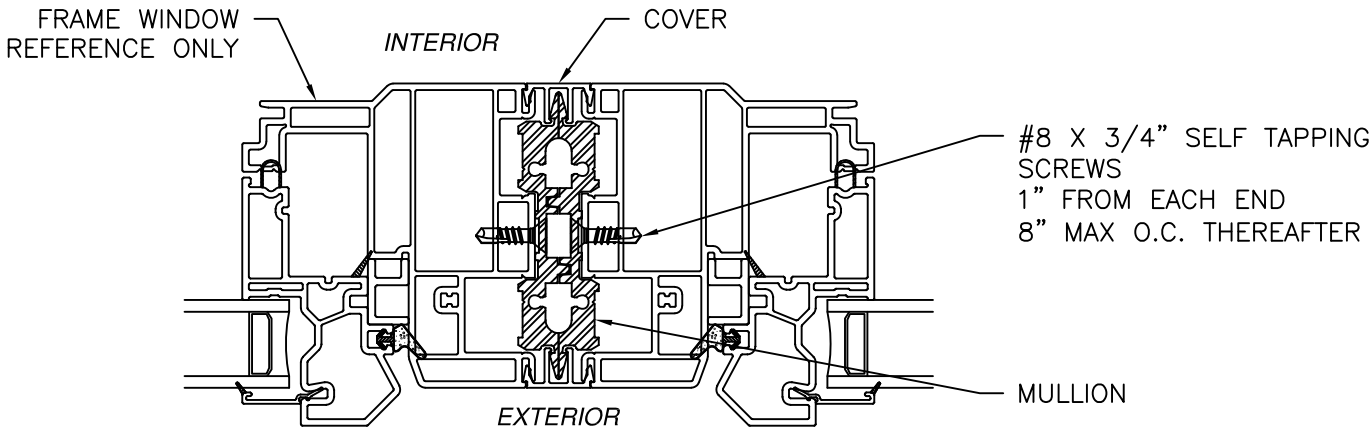
MULLION COVER
PVC .050" THICK



ALUMINUM BAR 6512H
ALUMINUM .104" THICK



**HORIZONTAL TO VERTICAL MULLION
CONNECTION DETAIL**



**WINDOW TO MULLION ATTACHMENT
DETAIL**

VIWINCO, INC.

MORGANTOWN BUSINESS PARK P.O. BOX 499
MORGANTOWN, PA 19543

SS-CAMBRIDGE ALUMINUM VERTICAL MULLION
IMPACT
COMPONENTS

DRAWN: R.L.

DWG NO. 08-02806

REV C

SCALE NTS

DATE 08/23/15

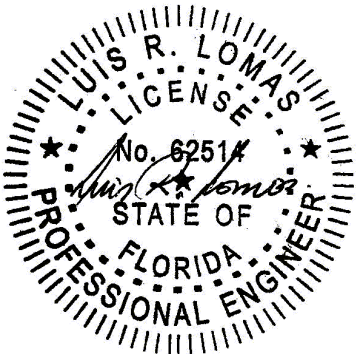
SHEET 7 OF 7

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

SIGNED: 10/02/2026



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