		REVISIONS				
RI	REV	DESCRIPTION	DATE	APPROVED		

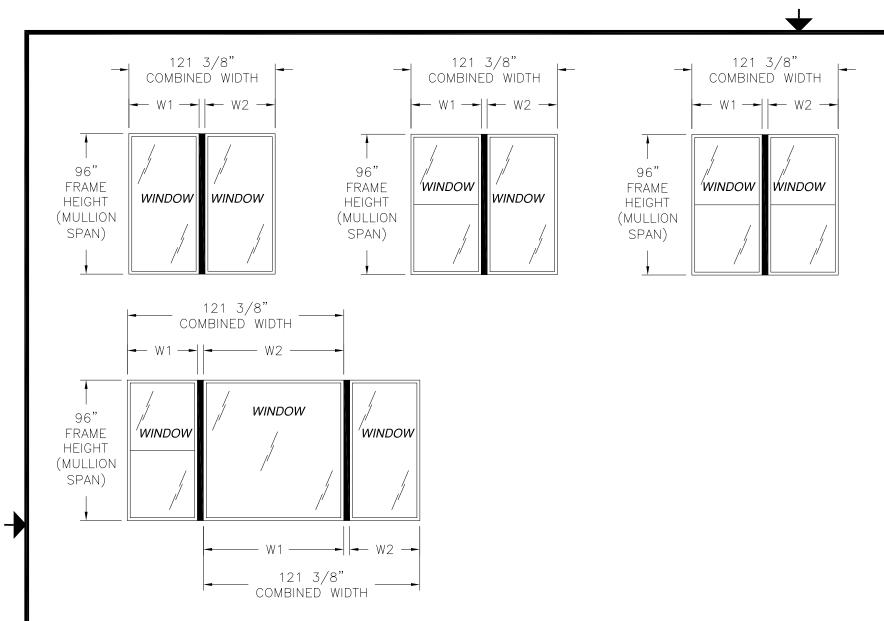
NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 2. WOOD FRAMING 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 MI WINDOWS AND DOORS, INC.
- 7. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR 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 #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
- 2. FOR ANCHORING INTO CONCRETE USE 1/4" TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT WITH 1 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
- 3. FOR ANCHORING INTO METAL FRAMING USE #10 SMS OR SELF DRILLING SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 4. FOR ATTACHING WINDOW UNITS TO MULLION USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE MULLION WALL. LOCATE SCREWS 6" FROM EACH MULLION END AND 12" MAX. O.C. THEREAFTER.
- 5. FOR ANCHORING WINDOW OR DOOR UNITS TO BUILDING REFER TO WINDOW OR DOOR APPROVAL DOCUMENTATION.
- 6. ALL FASTENERS TO BE CORROSION RESISTANT.
- 7. 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:
- 7.1. WOOD MINIMUM SPECIFIC GRAVITY OF G=0.42
- 7.2. CONCRETE MINIMUM COMPRESSIVE STRENGTH OF 4,200 PSI.
- 7.3. MASONRY STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
- 7.4. METAL STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .125" THICK MINIMUM.

			650 V	WINDOWS AND DOORS 50 WEST MARKET STREET GRATZ, PA 17030-0370				
	TABLE OF CONTENTS	M-9310 VERTICAL MULLION NOTES				No. 6251# * No. 6251# * This Kar former and STATE OF		
SHEET NO.	DESCRIPTION	DRAWN: DWG NO.			REV	TO PIDA . W.		
1	NOTES	A.R.			08-03678	_	MONAL ENGLIS	
2	CONFIGURATIONS AND DP CHART	SCALE NTS	DATE O	1/25/21	SHEET 1 OF 4		Millimin	
3	INSTALLATION DETAILS	L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			Luis R. Lomas P.E.			
4	INSTALLATION DETAILS & COMPONENTS				FL No.: 62514			



APPROVED CONFIGURATIONS

MULTIPLE UNITS MAYBE MULLED TOGETHER AS LONG AS COMBINED WIDTH DOES NOT EXCEED 121 3/8" AS SHOWN HEREIN.

Mullion rating (psf)							
Mullion	Tributary width (in)						
span (in)	24.00	30.00	36.00	42.00	48.00	54.00	60.00
36.00	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
48.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54.00	120.0	120.0	120.0	117.4	113.0	111.6	111.6
60.00	120.0	120.0	107.6	99.3	94.1	91.3	90.4
66.00	120.0	106.3	94.1	86.1	80.7	77.2	75.3
72.00	113.0	95.1	83.7	75.9	70.6	66.9	64.5
78.00	102.7	86.1	75.3	67.9	62.8	59.1	56.5
84.00	94.1	78.6	68.5	61.5	56.5	52.8	49.5
90.00	86.9	72.3	62.8	55.1	49.4	45.2	42.0
96.00	79.9	64.8	55.0	48.0	42.9	39.1	36.2
102.00	66.4	53.8	45.6	39.8	35.6	32.4	30.0
107.00	57.4	46.5	39.3	34.2	30.5	27.8	25.6

Large and small missile impact up to wind zone 3

REVISIONS

REV DESCRIPTION DATE APPROVED

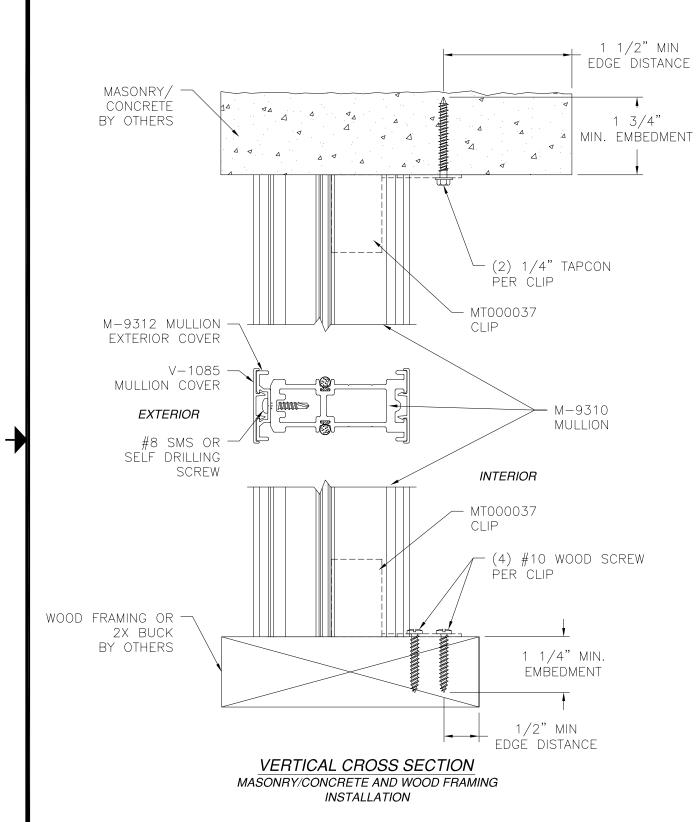
DESIGN PRESSURE TABLE INSTRUCTIONS:

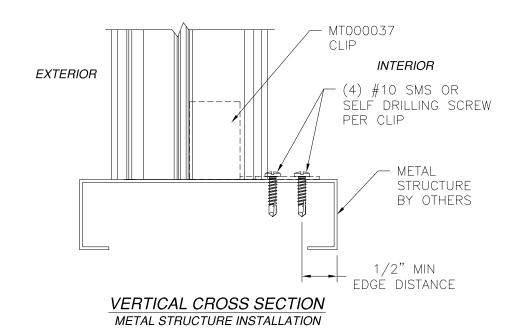
- 1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
- 2. DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
- 3. LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION 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 = $\frac{W1 + W2}{2}$

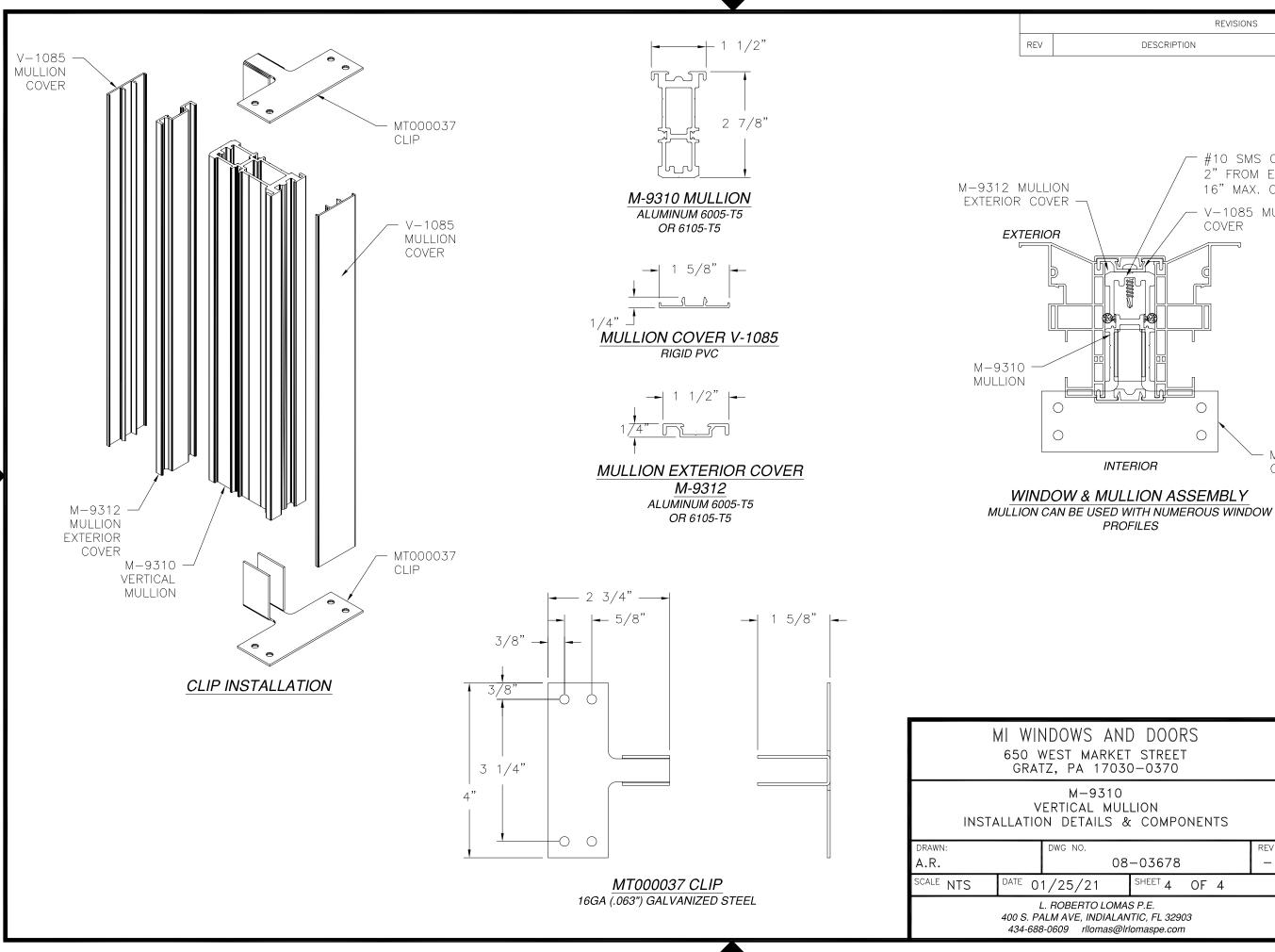
	01011EB: 04/24/2020
MI WINDOWS AND DOORS 650 west market street gratz, pa 17030-0370	IN ICENSON POLIT
M-9310 VERTICAL MULLION CONFIGURATIONS AND DP CHARTS	No. 62514 *
DRAWN: DWG NO. REV A.R. 08-03678 -	ONAL ENGINE
SCALE NTS DATE 01/25/21 SHEET 2 OF 4	Mannin .
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com	Luis R. Lomas P.E. FL No.: 62514

REVISIONS							
REV	DESCRIPTION	DATE	APPROVED				









REVISIONS DESCRIPTION DATE APPROVED

