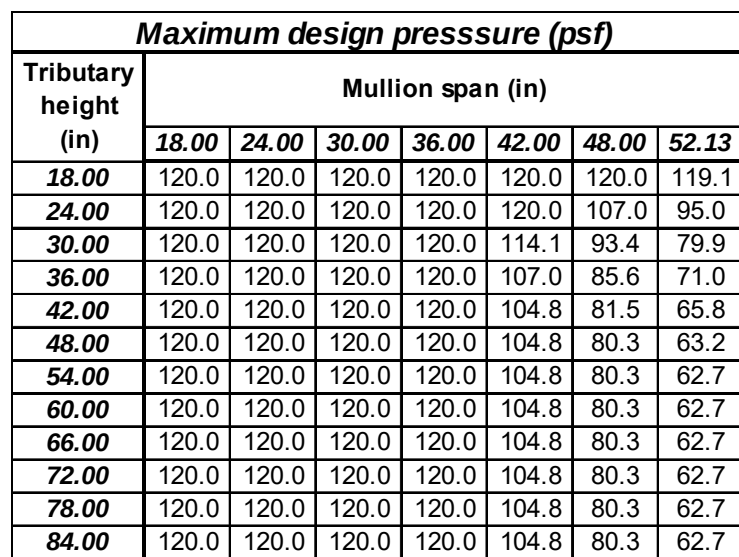




DESIGN PRESSURE TABLE INSTRUCTIONS:

- $$\text{TRIBUTARY HEIGHT} = \frac{H_1 + H_2}{2}$$

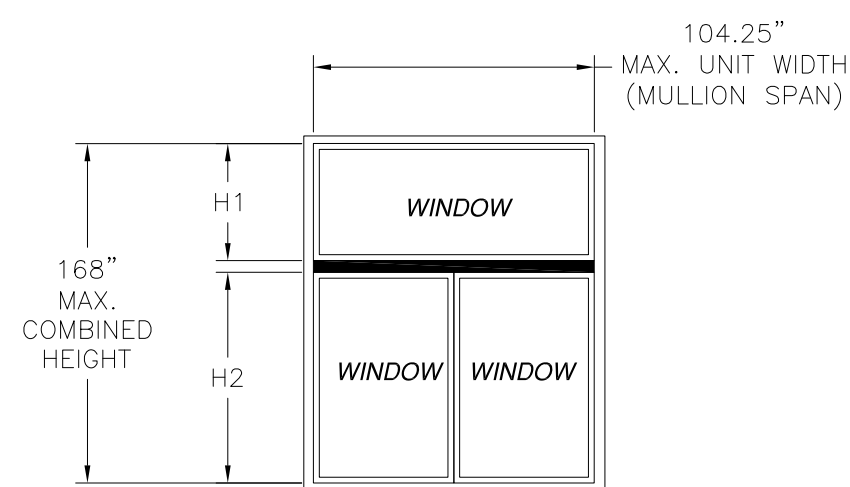
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED INSTALLATION DETAILS	06/10/15	R.L.
B	REVISED INSTALLATION DETAILS	10/13/17	R.L.

NOTES:

- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 2) WOOD FRAMING 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) ALLOWABLE STRESS INCREASE OF $1/3$ WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR $C_d=1.6$ 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 THE MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
- 6) SINGLE UNITS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. SINGLE UNITS TO BE MULLED TOGETHER MUST BE MANUFACTURED BY MI WINDOWS AND DOORS
- 7) DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT.
- 8) VERTICAL MULLIONS ARE NOT PART OF THIS APPROVAL. VERTICAL MULLIONS USED TO MULL UNITS SIDE BY SIDE MUST HAVE SEPARATE APPROVAL.
- 9) FOR ADDITIONAL APPROVED CONFIGURATIONS SEE SHEET 2.

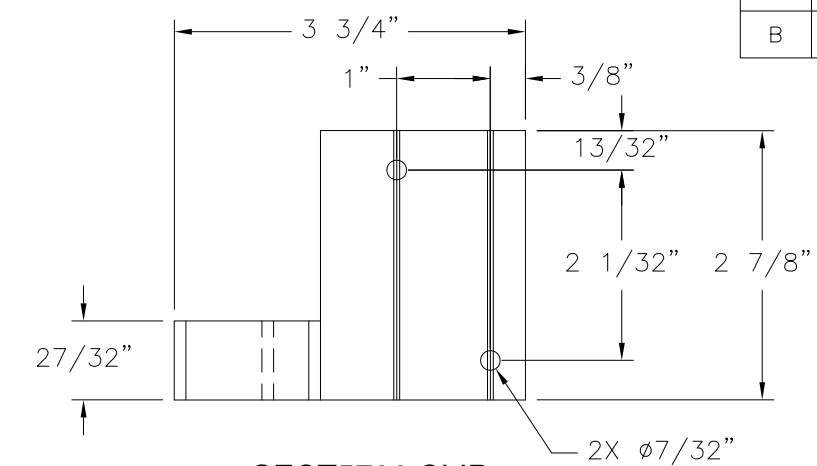
SIGNED: 10/16/2017

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030			
5764 HORIZONTAL MULLION SINGLE AND TWIN WITH TRANSOM ELEVATION AND GENERAL NOTES			
DRAWN: V.L.	DWG NO. 08-01448	REV B	
SCALE NTS	DATE 03/06/12	SHEET 1 OF 3	
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com			

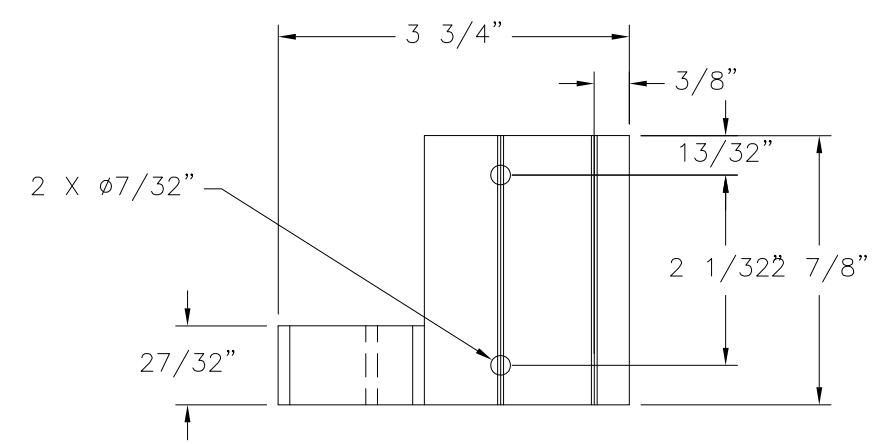


Maximum design pressure capacity chart (psf)							
Tributary Height (in)	Mullion Span (in)						
	36.00	48.00	60.00	72.00	84.00	96.00	104.25
18.00	120.0	120.0	77.2	44.1	27.5	18.3	-
24.00	120.0	107.0	59.6	33.8	21.0	-	-
30.00	120.0	92.5	49.3	27.7	17.1	-	-
36.00	120.0	82.8	42.6	23.8	-	-	-
42.00	118.1	76.1	37.9	21.0	-	-	-
48.00	110.5	71.3	34.5	19.0	-	-	-
54.00	103.8	67.6	32.0	17.4	-	-	-
60.00	97.8	64.2	30.2	16.2	-	-	-
66.00	92.5	61.1	28.7	15.3	-	-	-
72.00	87.8	58.3	27.3	-	-	-	-
78.00	83.5	55.4	26.0	-	-	-	-
84.00	79.6	52.8	24.9	-	-	-	-

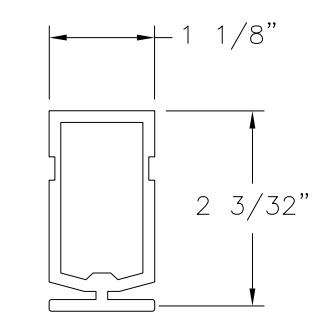
LARGE AND SMALL MISSILE IMPACT, LEVEL D, WIND ZONE 3
DIMENSIONS IN CHART ARE FRAME DIMENSIONS AND DO NOT
INCLUDE FLANGE



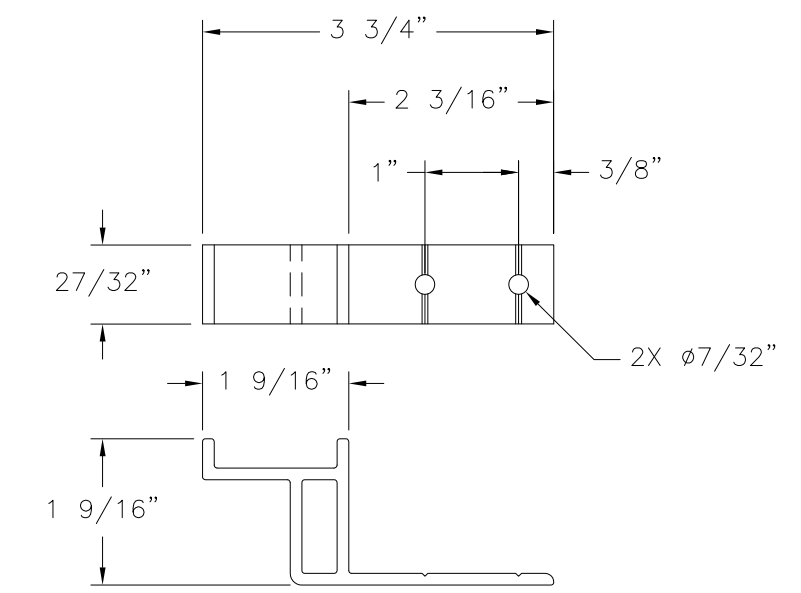
SECT5796 CLIP
FOR CONCRETE INSTALLATION
ALUMINUM 6063-T5 .125" THICK



SECT5796 CLIP
FOR CONCRETE INSTALLATION
ALUMINUM 6063-T5 .125" THICK



SECT5764 MULLION
ALUMINUM 6005-T5 .125" THICK



SECT5796 CLIP
FOR WOOD FRAMING INSTALLATION
ALUMINUM 6063-T5 .125" THICK

$$\text{TRIBUTARY HEIGHT} = \frac{H1 + H2}{2}$$

DESIGN PRESSURE TABLE INSTRUCTIONS:

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

MI WINDOWS AND DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030

5764 HORIZONTAL MULLION
SINGLE AND TWIN WITH TRANSOM
ELEVATION AND COMPONENTS

DRAWN: V.L.
DWG NO. 08-01448
REV B

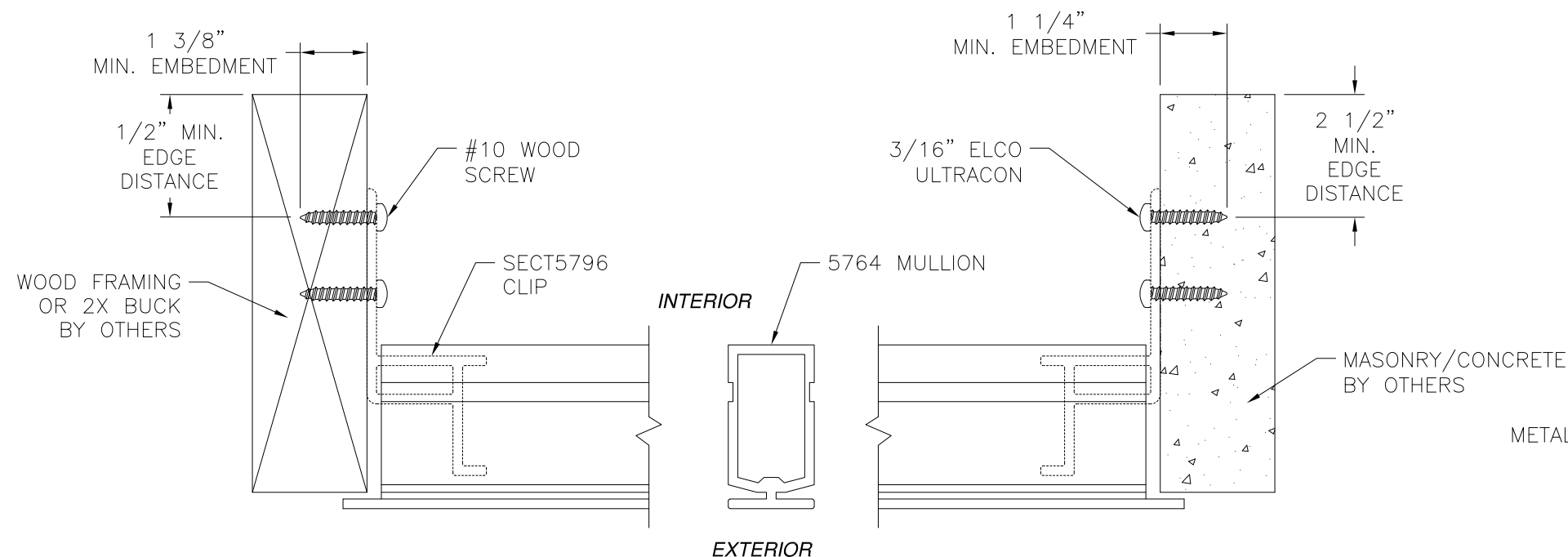
SCALE NTS
DATE 03/06/12
SHEET 2 OF 3

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 10/16/2017

Luis R. Lomas
Professional Engineer
State of Florida
No. 62514

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

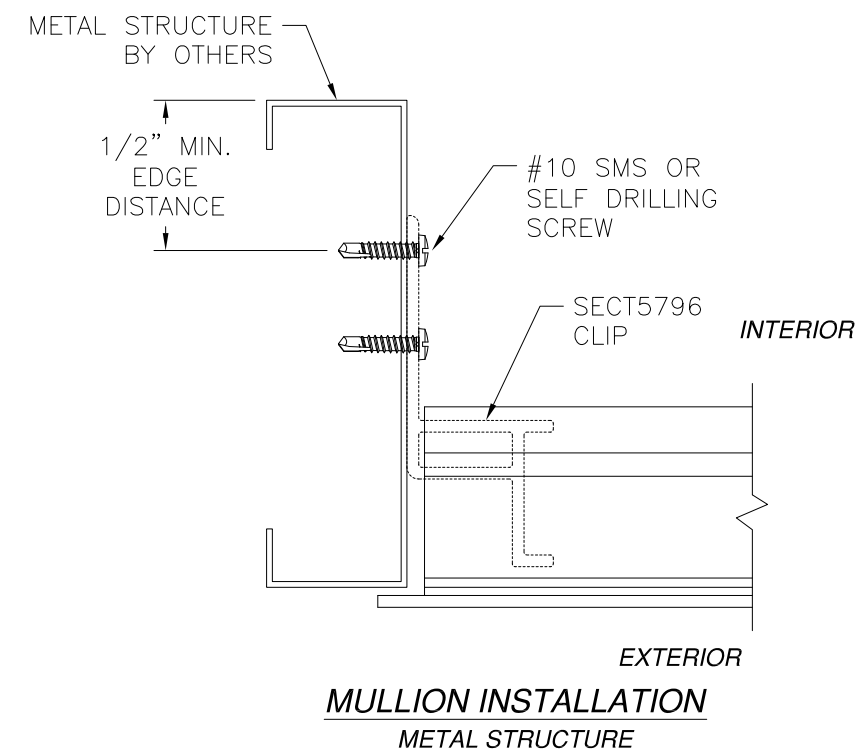


MULLION INSTALLATION
WOOD & CONCRETE

ANCHORING NOTES:

- 1) FOR ANCHORING INTO CONCRETE USE 3/16" ELCO ULTRACON TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 2) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND 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 SELF TAPPING 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. STAGGER SCREWS AT EACH WINDOW.
- 5) FOR WINDOW UNITS ANCHORING SCHEDULE REFER TO WINDOW APPROVED INSTALLATION INSTRUCTIONS.
- 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 SPECIFIC GRAVITY OF G=0.42
A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.
C. METAL STRUCTURE – STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .0625" THICK MINIMUM.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED INSTALLATION DETAILS	06/10/15	R.L.
B	REVISED INSTALLATION DETAILS	10/13/17	R.L.



MULLION INSTALLATION
METAL STRUCTURE

SIGNED: 10/16/2017

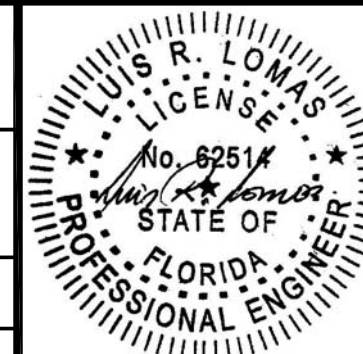
MI WINDOWS AND DOORS, LLC

650 WEST MARKET STREET
GRATZ, PA 17030

5764 HORIZONTAL MULLION
SINGLE AND TWIN WITH TRANSOM
INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-01448	REV B
SCALE NTS	DATE 03/06/12	SHEET 3 OF 3

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Luis R. Lomas P.E.
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