

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IBC AND THE 2006 IRC WITH STATE OF TEXAS MODIFICATIONS AND WITH THE 2015 IBC, 2015 IRC, 2018 IBC AND 2018 IRC.
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 UNIT.
8. MULLIONS TO BE USED IN THIS APPLICATION IS AS FOLLOWS:
HORIZONTAL MULLIONS: M-2301 MULLION
VERTICAL MULLIONS: M-2300 MULLION
9. FOR ADDITIONAL APPROVED CONFIGURATIONS SEE SHEET 2.

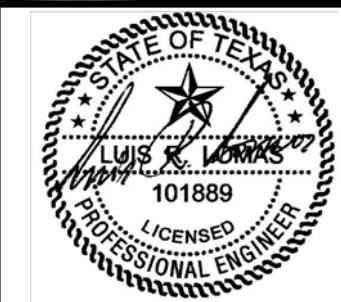
ANCHORING NOTES:

1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
2. FOR ANCHORING INTO CONCRETE USE 1/4" ELCO ULTRACON TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT WITH 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
3. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #10 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:
 - A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 4,200 PSI.
 - C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI 1/8" THICK MINIMUM

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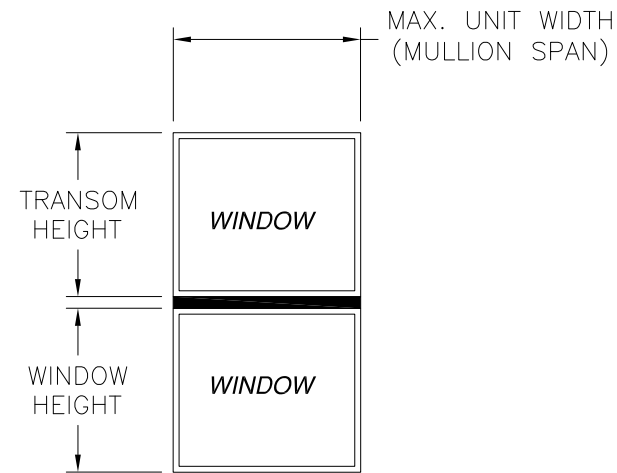
MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
M2301 HORIZONTAL MULLION W/ M2300 VERTICAL MULLION NOTES		
DRAWN: A.R.	DWG NO. 08-03264	REV -
SCALE NTS	DATE 06/05/18	SHEET 1 OF 7
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		

SIGNED: 12/20/2019



Luis R. Lomas P.E.
TX No.: 101889

MULLIONS INSTALLED WITH MT000022 CLIP



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

Maximum design pressure capacity chart (psf)

Units with a transom height of: 36"

Design pressures are positive and negative

Height (in)		Unit width (in)							
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
24.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5	97.3
30.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	90.6
36.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	100.0	85.7
42.0	36.0	120.0	120.0	120.0	120.0	120.0	117.1	96.6	82.3
48.0	36.0	120.0	120.0	120.0	120.0	120.0	116.1	94.7	80.0
54.0	36.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1	78.7
60.0	36.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1	78.3
66.0	36.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1	78.3
72.0	36.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1	78.3
78.0	36.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1	78.3
84.0	36.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1	78.3

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure capacity chart (psf)

Units with a transom height of: 48"

Design pressures are positive and negative

Height (in)		Unit width (in)							
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
24.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	105.9	90.0
30.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	99.3	84.2
36.0	48.0	120.0	120.0	120.0	120.0	120.0	116.1	94.7	80.0
42.0	48.0	120.0	120.0	120.0	120.0	120.0	113.4	91.7	77.0
48.0	48.0	120.0	120.0	120.0	120.0	120.0	112.5	90.0	75.0
54.0	48.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4	73.8
60.0	48.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4	73.5
66.0	48.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4	73.5
72.0	48.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4	73.5
78.0	48.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4	73.5
84.0	48.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4	73.5

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure capacity chart (psf)

Units with a transom height of: 18"

Design pressures are positive and negative

Height (in)		Unit width (in)							
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
24.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3
36.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	106.7
42.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	118.0	101.4
48.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	115.2	98.0
54.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	96.0
60.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	95.4
66.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	95.4
72.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	95.4
78.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	95.4
84.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	95.4

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure capacity chart (psf)

Units with a transom height of: 24"

Design pressures are positive and negative

Height (in)		Unit width (in)							
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
24.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5
30.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	119.0	103.6
36.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5	97.3
42.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3	92.9
48.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.9	90.0
54.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	88.3
60.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	87.8
66.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	87.8
72.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	87.8
78.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	87.8
84.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	87.8

IMPACT RATED UP TO WIND ZONE 3

DESIGN PRESSURE TABLE INSTRUCTIONS:

1. DEFINE REQUIRED DESIGN LOAD PER TEXAS BUILDING CODE CHAPTER 16.
2. DETERMINE MULLION SPAN BASED ON PRODUCT TO BE INSTALLED.
3. LOCATE MULLION SPAN (UNIT WIDTH) WINDOW HEIGHT AND TRANSOM HEIGHT. AT THE INTERSECTION OF COLUMN AND ROW CONTAINING THE DESIRED DIMENSIONS IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

SIGNED: 12/20/2019

MI WINDOWS AND DOORS, LLC

650 WEST MARKET STREET
GRATZ, PA 17030-0370

M2301 HORIZONTAL MULLION
W/ M2300 VERTICAL MULLION
ELEVATION AND CHARTS

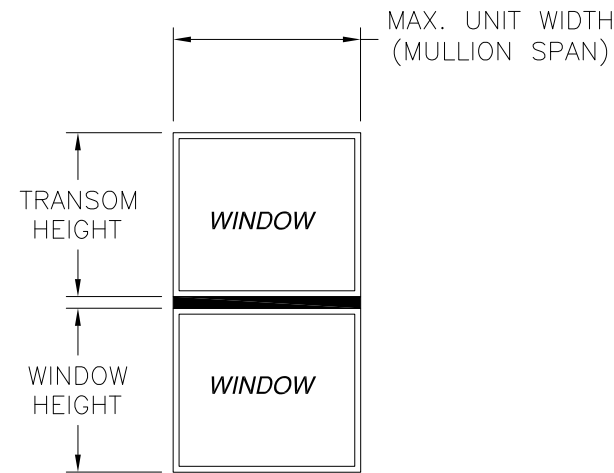
DRAWN: A.R.	DWG NO. 08-03264	REV -
SCALE NTS	DATE 06/05/18	SHEET 2 OF 7

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1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com



Luis R. Lomas P.E.
TX No.: 101889

MULLIONS INSTALLED WITH SECT5768 CLIP



Maximum design pressure capacity chart (psf)
Units with a transom height of: 18"
Design pressures are positive and negative

Height (in)		Unit width (in)							
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
24.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3
36.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	106.7
42.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	118.0	101.4
48.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	115.2	98.0
54.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	96.0
60.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	95.4
66.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	95.4
72.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	95.4
78.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	95.4
84.0	18.0	120.0	120.0	120.0	120.0	120.0	120.0	114.3	95.4

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure capacity chart (psf)
Units with a transom height of: 24"
Design pressures are positive and negative

Height (in)		Unit width (in)							
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
24.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5
30.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	119.0	103.6
36.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5	97.3
42.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3	92.9
48.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.9	90.0
54.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	88.3
60.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	87.8
66.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	87.8
72.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	87.8
78.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	87.8
84.0	24.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	87.8

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure capacity chart (psf)
Units with a transom height of: 36"

Design pressures are positive and negative

Height (in)		Unit width (in)							
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
24.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5	97.3
30.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	105.1	90.6
36.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	100.0	85.7
42.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	117.1	96.6
48.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	116.1	94.7
54.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1
60.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1
66.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1
72.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1
78.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1
84.0	36.0	120.0	120.0	120.0	120.0	120.0	120.0	116.1	94.1

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Units with a transom height of: 48"

Design pressures are positive and negative

Height (in)		Unit width (in)							
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
24.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	105.9	90.0
30.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	99.3	84.2
36.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	116.1	94.7
42.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	113.4	91.7
48.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5	90.0
54.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4
60.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4
66.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4
72.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4
78.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4
84.0	48.0	120.0	120.0	120.0	120.0	120.0	120.0	112.5	89.4

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- DESIGN PRESSURE TABLE INSTRUCTIONS:
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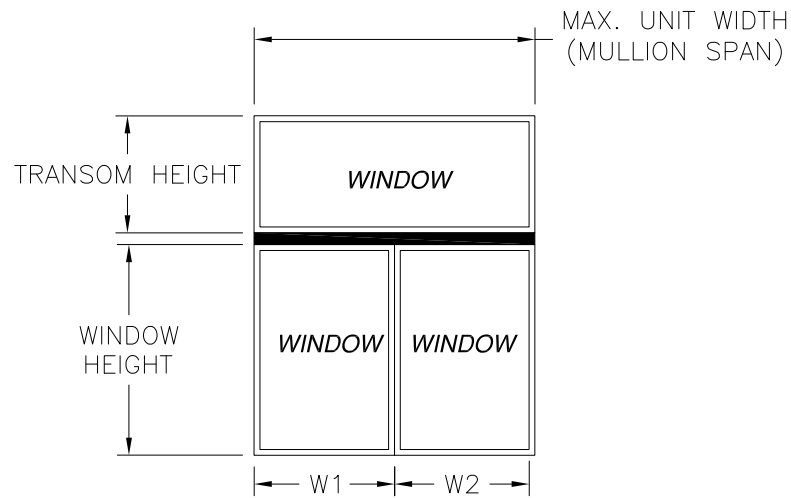
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MULLIONS INSTALLED WITH MT000022 CLIP



Maximum design pressure capacity chart (psf)
Units with transom height of: 18 in
Design pressures are positive and negative

Height (in)		Span and Tributary width (in)						
Window	Transom	48.00	60.00	72.00	84.00	96.00	108.00	120.00
24.00	18.00	120.0	120.0	117.1	97.9	84.2	73.8	65.7
30.00	18.00	120.0	120.0	106.0	88.1	75.4	65.9	58.6
36.00	18.00	120.0	120.0	97.9	80.9	68.9	60.0	53.2
42.00	18.00	120.0	114.7	91.5	75.4	63.9	55.5	49.0
48.00	18.00	120.0	107.4	85.9	71.0	60.0	51.8	45.6
54.00	18.00	120.0	100.9	80.9	67.0	56.8	49.0	42.9
60.00	18.00	120.0	95.2	76.5	63.4	53.8	46.5	40.7
66.00	18.00	116.3	90.0	72.5	60.2	51.2	44.3	38.9
72.00	18.00	104.7	85.4	68.9	57.4	48.8	42.3	37.1
78.00	18.00	95.2	79.7	65.7	54.7	46.6	40.5	35.6
84.00	18.00	85.8	69.7	59.3	52.0	44.7	38.8	34.1
90.00	18.00	74.5	60.4	51.2	44.8	40.2	36.7	32.8
96.00	18.00	65.3	52.8	44.7	39.0	34.9	31.8	29.4

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure capacity chart (psf)
Units with transom height of: 24 in
Design pressures are positive and negative

Height (in)		Span and Tributary width (in)						
Window	Transom	48.00	60.00	72.00	84.00	96.00	108.00	120.00
24.00	24.00	120.0	120.0	104.7	87.2	74.8	65.4	58.1
30.00	24.00	120.0	120.0	95.7	79.4	67.8	59.2	52.5
36.00	24.00	120.0	112.4	89.1	73.5	62.5	54.4	48.1
42.00	24.00	120.0	105.3	83.7	68.9	58.4	50.6	44.7
48.00	24.00	120.0	99.1	79.0	65.2	55.1	47.6	41.9
54.00	24.00	120.0	93.6	74.8	61.8	52.3	45.1	39.6
60.00	24.00	116.3	88.6	71.0	58.8	49.8	43.1	37.7
66.00	24.00	110.2	84.2	67.5	56.0	47.6	41.1	36.1
72.00	24.00	104.7	80.1	64.4	53.5	45.5	39.4	34.6
78.00	24.00	95.2	76.5	61.6	51.2	43.6	37.8	33.2
84.00	24.00	85.8	69.7	59.0	49.1	41.9	36.3	32.0
90.00	24.00	74.5	60.4	51.2	44.8	40.2	35.0	30.8
96.00	24.00	65.3	52.8	44.7	39.0	34.9	31.8	29.4

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure capacity chart (psf)
Units with transom height of: 36 in
Design pressures are positive and negative

Height (in)		Span and Tributary width (in)						
Window	Transom	48.00	60.00	72.00	84.00	96.00	108.00	120.00
24.00	36.00	120.0	113.2	89.1	73.5	62.5	54.4	48.1
30.00	36.00	120.0	105.3	82.5	67.8	57.5	50.0	44.2
36.00	36.00	120.0	99.1	77.5	63.4	53.7	46.5	41.0
42.00	36.00	120.0	93.6	73.5	60.0	50.6	43.7	38.5
48.00	36.00	119.6	88.6	69.8	57.2	48.1	41.5	36.4
54.00	36.00	113.2	84.2	66.5	54.5	46.0	39.6	34.7
60.00	36.00	107.4	80.1	63.4	52.2	44.1	38.0	33.2
66.00	36.00	102.1	76.5	60.7	50.0	42.3	36.5	32.0
72.00	36.00	97.4	73.1	58.1	48.0	40.6	35.1	30.8
78.00	36.00	93.0	70.1	55.8	46.1	39.1	33.8	29.7
84.00	36.00	85.8	67.3	53.7	44.4	37.7	32.6	28.7
90.00	36.00	74.5	60.4	51.2	42.8	36.4	31.5	27.7
96.00	36.00	65.3	52.8	44.7	39.0	34.9	30.5	26.8

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure capacity chart (psf)
Units with transom height of: 48 in
Design pressures are positive and negative

Height (in)		Span and Tributary width (in)						
Window	Transom	48.00	60.00	72.00	84.00	96.00	108.00	120.00
24.00	48.00	120.0	104.7	80.5	65.4	55.1	47.6	41.9
30.00	48.00	120.0	97.9	75.1	60.9	51.2	44.2	38.9
36.00	48.00	120.0	92.5	71.0	57.4	48.1	41.5	36.4
42.00	48.00	120.0	87.7	67.5	54.5	45.6	39.2	34.4
48.00	48.00	116.3	83.3	64.4	52.2	43.6	37.4	32.7
54.00	48.00	110.2	79.4	61.6	50.0	41.9	35.9	31.3
60.00	48.00	104.7	75.8	59.0	48.0	40.3	34.5	30.1
66.00	48.00	99.7	72.5	56.6	46.1	38.8	33.3	29.1
72.00	48.00	95.2	69.5	54.4	44.4	37.4	32.1	28.1
78.00	48.00	91.0	66.7	52.3	42.8	36.1	31.1	27.2
84.00	48.00	85.8	64.2	50.4	41.3	34.9	30.1	26.3
90.00	48.00	74.5	60.4	48.7	40.0	33.8	29.1	25.5
96.00	48.00	65.3	52.8	44.7	38.7	32.7	28.2	24.8

IMPACT RATED UP TO WIND ZONE 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER TEXAS BUILDING CODE CHAPTER 16.
 2. DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
 3. TO DETERMINE MULLION RATING LOCATE COLUMN FOR MULLION SPAN AND TRIBUTARY WIDTH THEN LOCATE CORRESPONDING ROW FOR BOTTOM AND TRANSOM HEIGHTS. FIND THE INTERSECTION OF THIS COLUMN AND ROW. MULLION RATING IS LOCATED AT THIS INTERSECTION.
 4. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.
 5. IF TRANSOM TO BE INSTALLED IS NOT LISTED IN THESE CHARTS GO TO NEXT HIGHER TRANSOM CHART. FOR EXAMPLE IF TRANSOM TO BE INSTALLED IS 20" HIGH THEN USE CHART FOR 24" TRANSOM.
 6. WINDOW/DOOR AND TRANSOMS TO BE ANCHORED ON ALL FOUR SIDES.

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

SIGNED: 12/20/2019

MI WINDOWS AND DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

M2301 HORIZONTAL MULLION
W/ M2300 VERTICAL MULLION
ELEVATION AND CHARTS

DRAWN: A.R. DWG NO. 08-03264 REV -

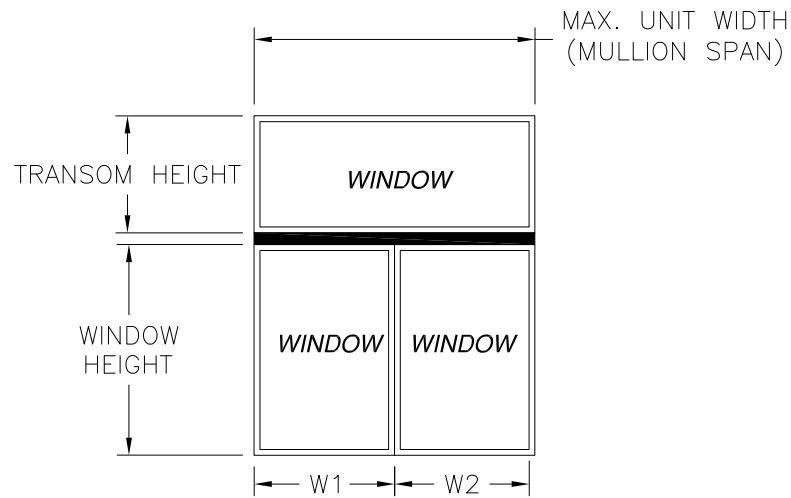
SCALE NTS DATE 06/05/18 SHEET 4 OF 7

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



Luis R. Lomas P.E.
TX No.: 101889

MULLIONS INSTALLED WITH SECT5768 CLIP



Maximum design pressure capacity chart (psf)
Units with transom height of: 18 in
Design pressures are positive and negative

Height (in)		Span and Tributary width (in)						
Window	Transom	48.00	60.00	72.00	84.00	96.00	108.00	120.00
24.00	18.00	120.0	120.0	100.7	84.2	72.4	63.4	56.5
30.00	18.00	120.0	114.3	91.1	75.8	64.9	56.7	50.3
36.00	18.00	120.0	105.9	84.2	69.6	59.3	51.6	45.7
42.00	18.00	120.0	98.6	78.7	64.9	55.0	47.7	42.1
48.00	18.00	120.0	92.3	73.8	61.0	51.6	44.6	39.2
54.00	18.00	113.4	86.7	69.6	57.6	48.8	42.1	36.9
60.00	18.00	106.7	81.8	65.8	54.5	46.3	40.0	35.0
66.00	18.00	100.0	77.4	62.3	51.8	44.0	38.1	33.4
72.00	18.00	90.0	73.5	59.3	49.3	42.0	36.4	31.9
78.00	18.00	81.8	68.6	56.5	47.1	40.1	34.8	30.6
84.00	18.00	75.0	62.6	53.9	45.0	38.4	33.3	29.3
90.00	18.00	69.2	57.6	50.0	43.1	36.8	32.0	28.2
96.00	18.00	64.3	52.8	44.7	39.0	34.9	30.8	27.1

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure capacity chart (psf)
Units with transom height of: 24 in
Design pressures are positive and negative

Height (in)		Span and Tributary width (in)						
Window	Transom	48.00	60.00	72.00	84.00	96.00	108.00	120.00
24.00	24.00	120.0	112.5	90.0	75.0	64.3	56.3	50.0
30.00	24.00	120.0	103.6	82.3	68.2	58.3	50.9	45.1
36.00	24.00	120.0	96.6	76.6	63.2	53.7	46.8	41.4
42.00	24.00	120.0	90.6	72.0	59.3	50.2	43.5	38.4
48.00	24.00	112.5	85.2	67.9	56.0	47.4	40.9	36.0
54.00	24.00	105.9	80.4	64.3	53.1	45.0	38.8	34.0
60.00	24.00	100.0	76.2	61.0	50.5	42.9	37.0	32.4
66.00	24.00	94.7	72.4	58.1	48.2	40.9	35.4	31.0
72.00	24.00	90.0	68.9	55.4	46.0	39.1	33.9	29.8
78.00	24.00	81.8	65.8	52.9	44.0	37.5	32.5	28.6
84.00	24.00	75.0	62.6	50.7	42.2	36.0	31.2	27.5
90.00	24.00	69.2	57.6	48.6	40.6	34.6	30.1	26.5
96.00	24.00	64.3	52.8	44.7	39.0	33.3	29.0	25.5

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure capacity chart (psf)
Units with transom height of: 36 in
Design pressures are positive and negative

Height (in)		Span and Tributary width (in)						
Window	Transom	48.00	60.00	72.00	84.00	96.00	108.00	120.00
24.00	36.00	120.0	97.3	76.6	63.2	53.7	46.8	41.4
30.00	36.00	120.0	90.6	70.9	58.3	49.5	43.0	38.0
36.00	36.00	116.1	85.2	66.7	54.5	46.2	40.0	35.3
42.00	36.00	109.1	80.4	63.2	51.6	43.5	37.6	33.1
48.00	36.00	102.9	76.2	60.0	49.1	41.4	35.6	31.3
54.00	36.00	97.3	72.4	57.1	46.9	39.6	34.0	29.8
60.00	36.00	92.3	68.9	54.5	44.9	37.9	32.7	28.6
66.00	36.00	87.8	65.8	52.2	43.0	36.4	31.4	27.5
72.00	36.00	83.7	62.9	50.0	41.3	35.0	30.2	26.5
78.00	36.00	80.0	60.3	48.0	39.7	33.6	29.1	25.5
84.00	36.00	75.0	57.8	46.2	38.2	32.4	28.1	24.7
90.00	36.00	69.2	55.6	44.4	36.8	31.3	27.1	23.8
96.00	36.00	64.3	52.8	42.9	35.6	30.3	26.2	23.1

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure capacity chart (psf)
Units with transom height of: 48 in
Design pressures are positive and negative

Height (in)		Span and Tributary width (in)						
Window	Transom	48.00	60.00	72.00	84.00	96.00	108.00	120.00
24.00	48.00	120.0	90.0	69.2	56.3	47.4	40.9	36.0
30.00	48.00	120.0	84.2	64.6	52.4	44.0	38.0	33.4
36.00	48.00	112.5	79.6	61.0	49.3	41.4	35.6	31.3
42.00	48.00	105.9	75.4	58.1	46.9	39.2	33.7	29.6
48.00	48.00	100.0	71.6	55.4	44.9	37.5	32.1	28.1
54.00	48.00	94.7	68.2	52.9	43.0	36.0	30.8	26.9
60.00	48.00	90.0	65.2	50.7	41.3	34.6	29.7	25.9
66.00	48.00	85.7	62.3	48.6	39.7	33.3	28.6	25.0
72.00	48.00	81.8	59.8	46.8	38.2	32.1	27.6	24.2
78.00	48.00	78.3	57.4	45.0	36.8	31.0	26.7	23.4
84.00	48.00	75.0	55.2	43.4	35.6	30.0	25.9	22.6
90.00	48.00	69.2	53.1	41.9	34.4	29.0	25.0	22.0
96.00	48.00	64.3	51.2	40.4	33.3	28.1	24.3	21.3

IMPACT RATED UP TO WIND ZONE 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER TEXAS BUILDING CODE CHAPTER 16.
 2. DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
 3. TO DETERMINE MULLION RATING LOCATE COLUMN FOR MULLION SPAN AND TRIBUTARY WIDTH THEN LOCATE CORRESPONDING ROW FOR BOTTOM AND TRANSOM HEIGHTS. FIND THE INTERSECTION OF THIS COLUMN AND ROW. MULLION RATING IS LOCATED AT THIS INTERSECTION.
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 6. WINDOW/DOOR AND TRANSOMS TO BE ANCHORED ON ALL FOUR SIDES.

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

SIGNED: 12/20/2019

MI WINDOWS AND DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

M2301 HORIZONTAL MULLION
W/ M2300 VERTICAL MULLION
ELEVATION AND CHARTS

DRAWN: A.R. DWG NO. 08-03264 REV -

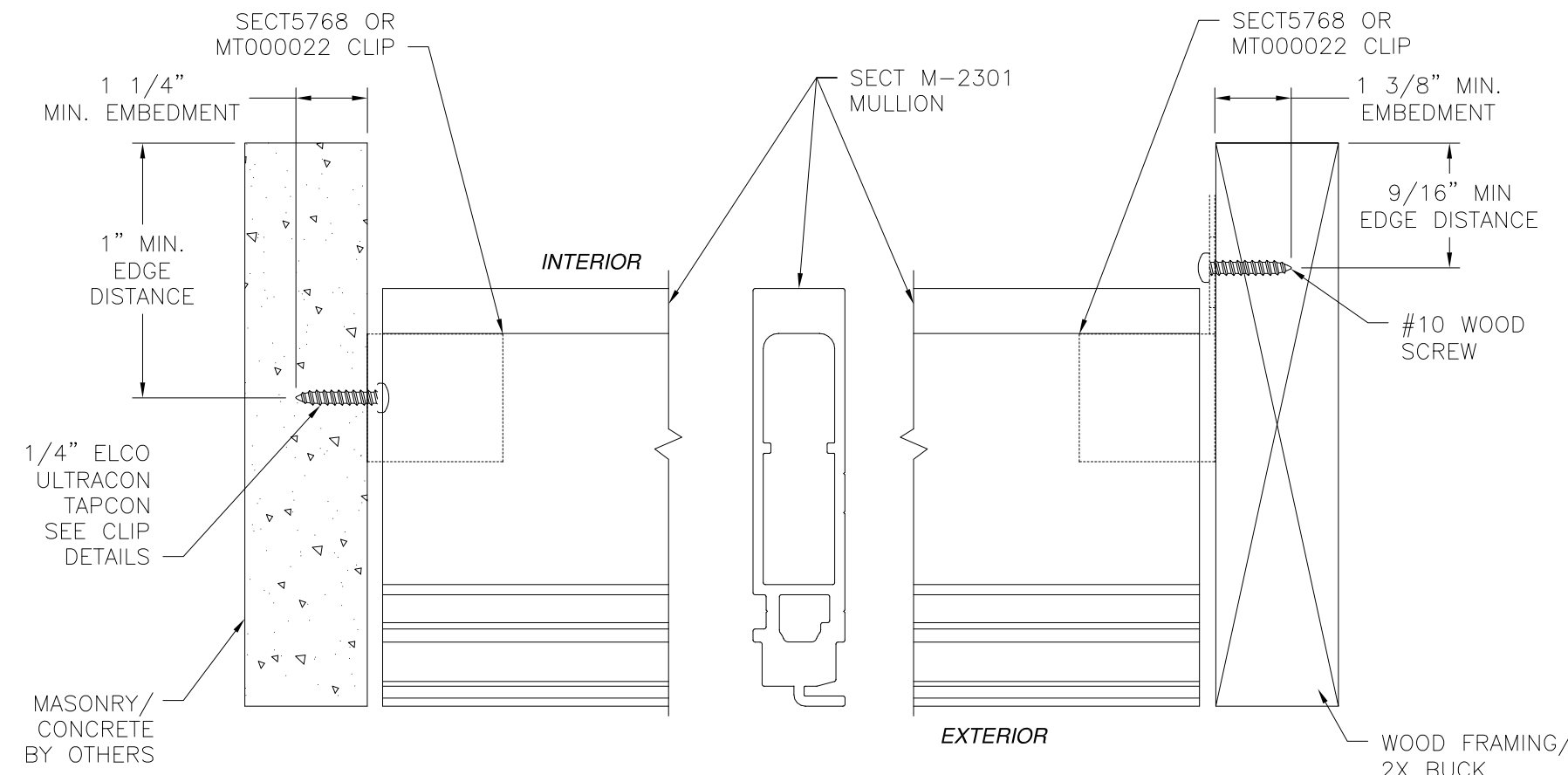
SCALE NTS DATE 06/05/18 SHEET 5 OF 7

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

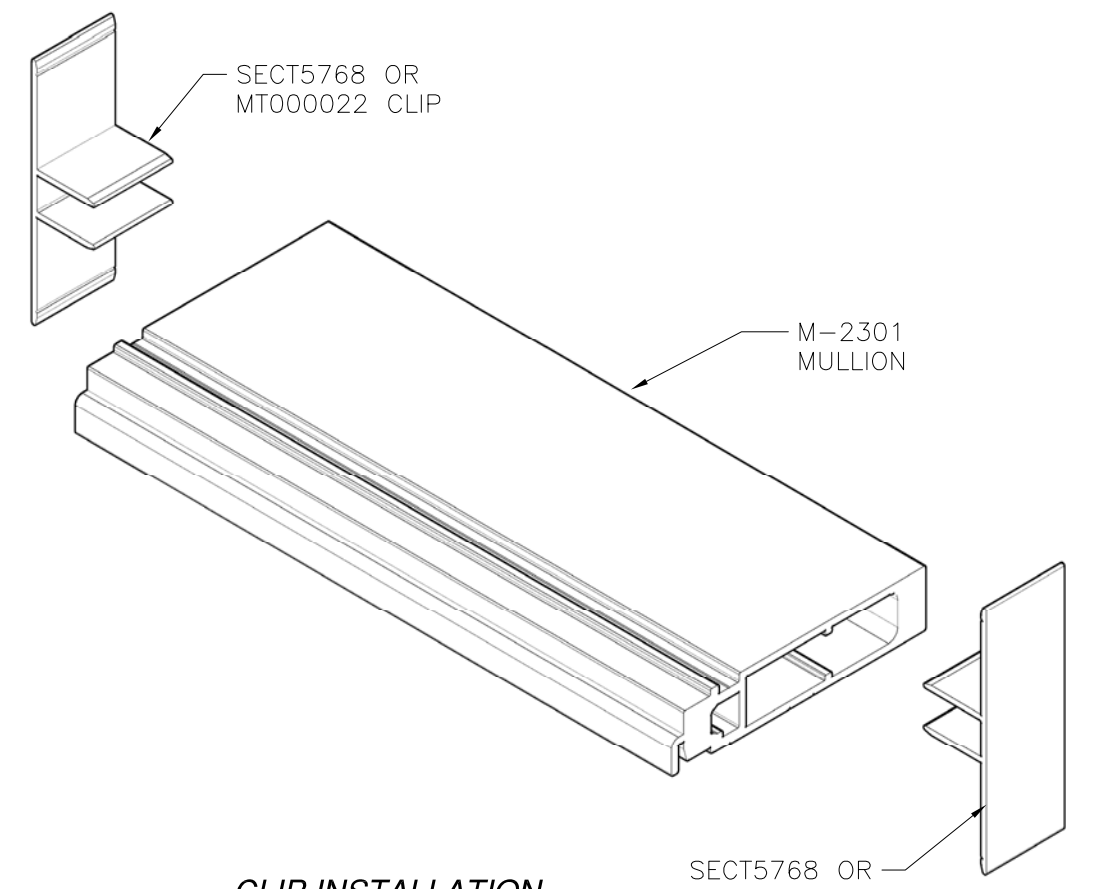


Luis R. Lomas P.E.
TX No.: 101889

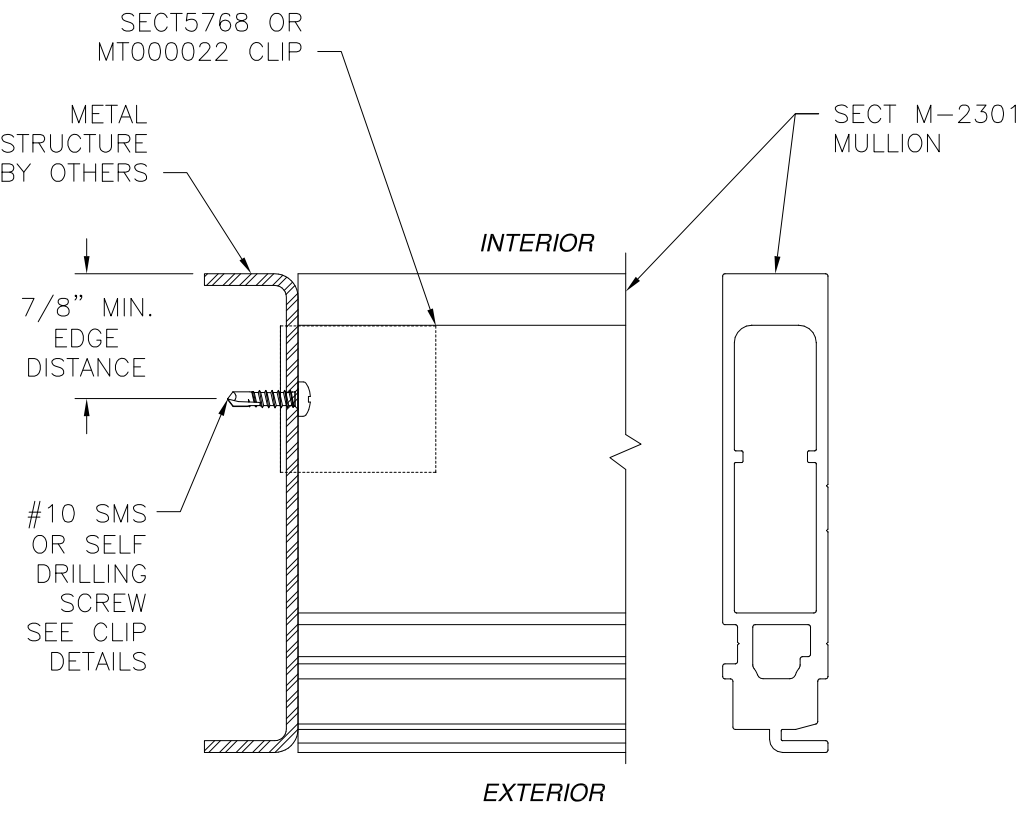
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



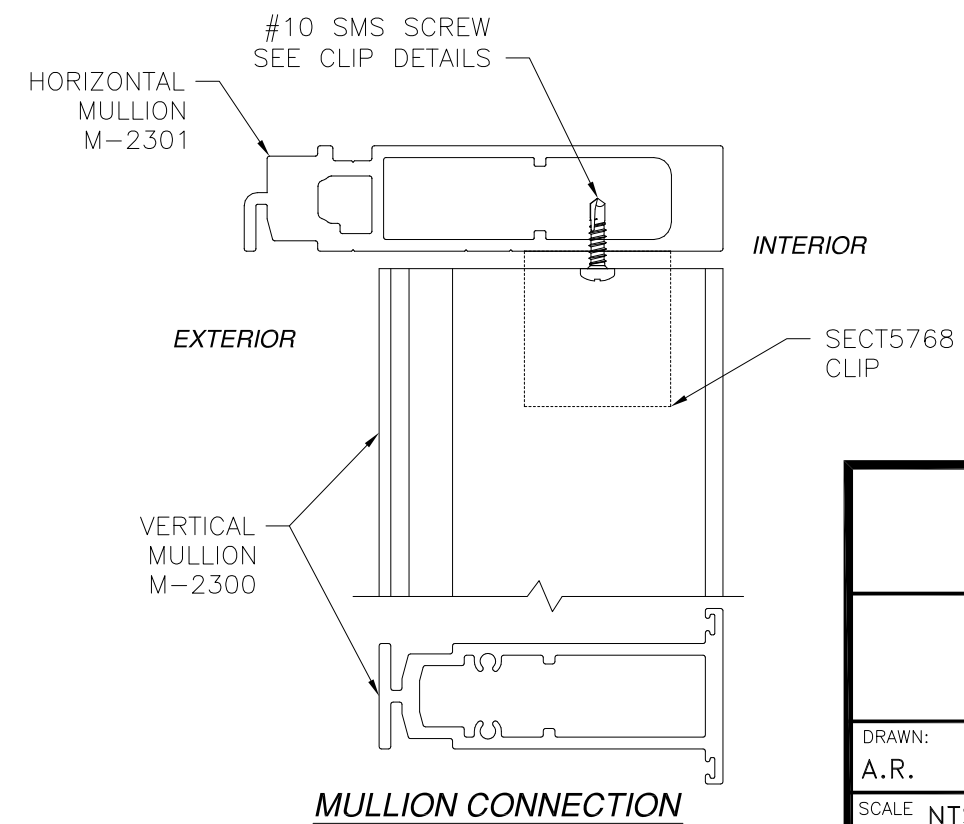
**HORIZONTAL CROSS SECTION
MASONRY/CONCRETE AND WOOD FRAMING
INSTALLATION**



CLIP INSTALLATION



**HORIZONTAL CROSS SECTION
METAL INSTALLATION**



MULLION CONNECTION

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: 12/20/2019

MI WINDOWS AND DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

M2301 HORIZONTAL MULLION
W/ M2300 VERTICAL MULLION
INSTALLATION DETAILS

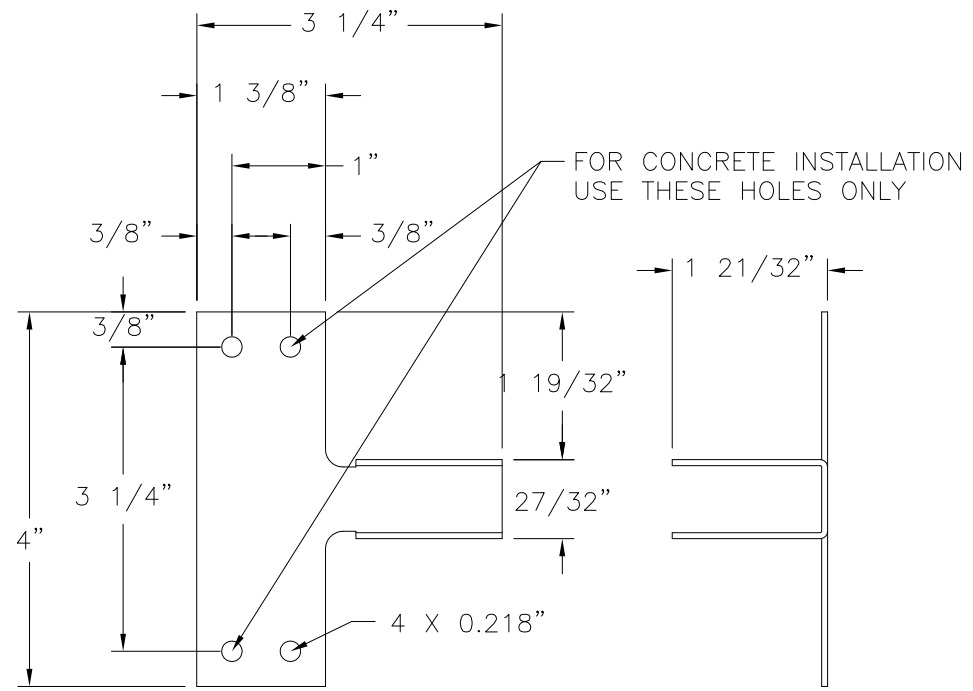
DRAWN: A.R.	DWG NO. 08-03264	REV -
SCALE NTS	DATE 06/05/18	SHEET 6 OF 7

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

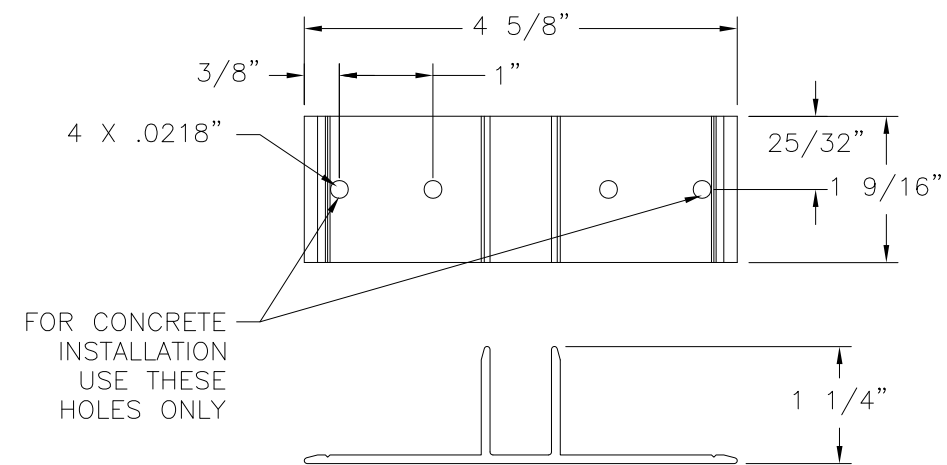


Luis R. Lomas P.E.
TX No.: 101889

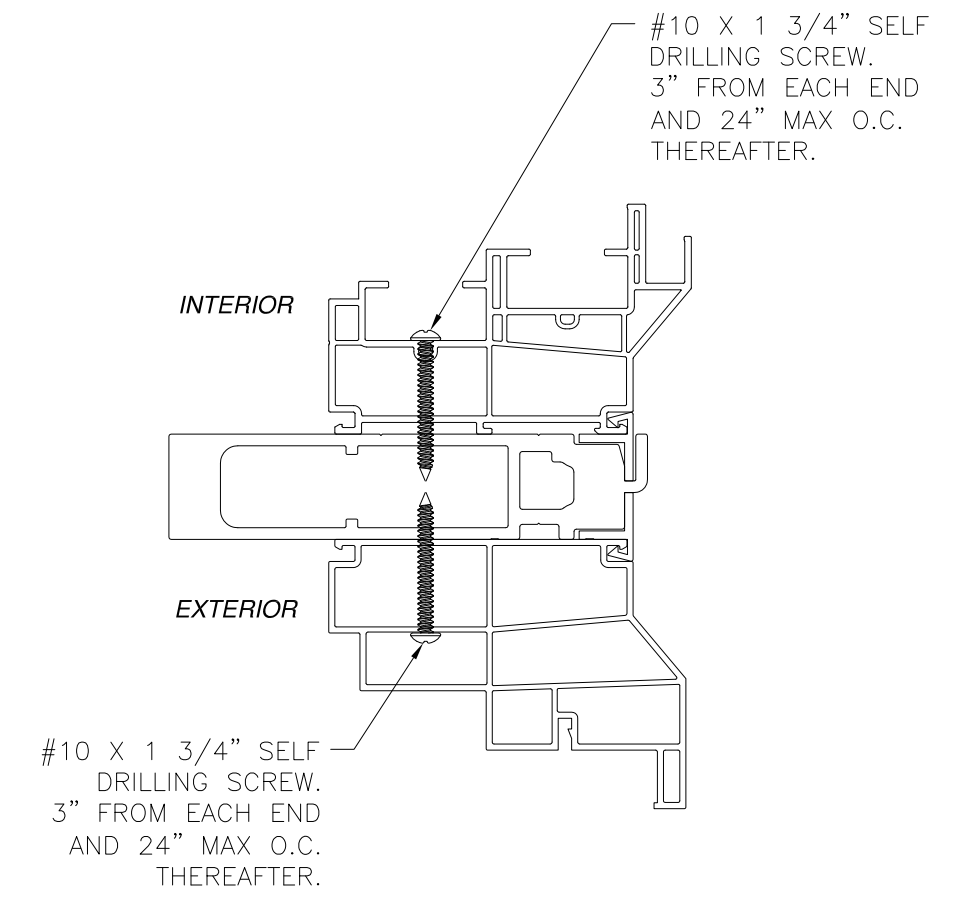
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



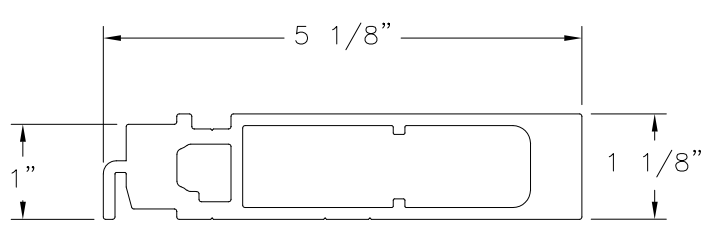
MT000022 CLIP
 16GA (.063") GALVANIZED STEEL
 FOR WOOD AND METAL FRAMING INSTALL (4)
 ANCHORS PER CLIP
 FOR MASONRY/CONCRETE INSTALLATION USE (2)
 ANCHORS PER CLIP AS SHOWN



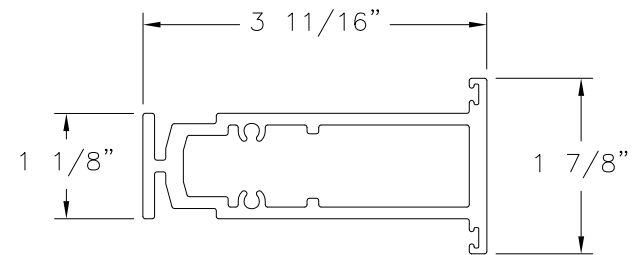
SECT5768 CLIP
 ALUMINUM 6063-T5 .125" THICK
 FOR WOOD AND METAL FRAMING INSTALL (4)
 ANCHORS PER CLIP
 FOR MASONRY/CONCRETE INSTALLATION USE (2)
 ANCHORS PER CLIP AS SHOWN



WINDOW & MULLION ASSEMBLY



SECT M-2301 MULLION
 ALUMINUM 6005-T5 .125" THICK



SECT M-2300 MULLION
 ALUMINUM 6005-T5 .125" THICK

SIGNED: 12/20/2019

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
M2301 HORIZONTAL MULLION W/ M2300 VERTICAL MULLION COMPONENTS		
DRAWN: A.R.	DWG NO. 08-03264	REV -
SCALE NTS	DATE 06/05/18	SHEET 7 OF 7
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



Luis R. Lomas P.E.
 TX No.: 101889