

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 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.
- 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 DECEUNINCK FABRICATORS.
- 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. VERTICAL AND HORIZONTAL MULLION INSTALLATION IS SHOWN.

ANCHORING NOTES:

- 1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 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" 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 STRUCTURE USE #12 SMS GRADE 5 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. FOR ATTACHING WINDOW UNITS TO MULLION USE #10 GRADE 5 SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE MULLION WALL. LOCATE SCREWS IN ACCORDANCE WITH WINDOW ANCHORING SCHEDULE AS SHOWN IN WINDOW SEPARATE APPROVAL.
- 5. ALL FASTENERS TO BE CORROSION RESISTANT.
- 6. 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 2,000 PSI.
 - C. NORMAL WEIGHT MASONRY HOLLOW FILLED BLOCK PER AS ASTM C90 WITH F'm= 2,000 PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048"), Fy= 33KSI/ Fu= 52KSI OR ALUMINUM 6063-T5 Fu= 30KSI .048" THICK MINIMUM

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 – 8	MULLION CHARTS
9 – 11	INSTALLATION DETAILS
12	COMPONENTS

SLOCOMB WINDOWS & DOORS
767 SANS SOUCI PARKWAY
HANOVER TWP, PA 18706

INNERGY MULLION 10000626
VERTICAL AND HORIZONTAL
NOTES

DRAWN:
R.L.

DWG NO.
08-03560

REV
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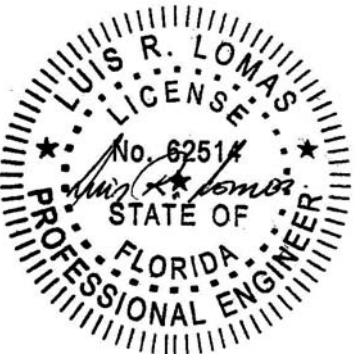
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DATE 05/14/2020

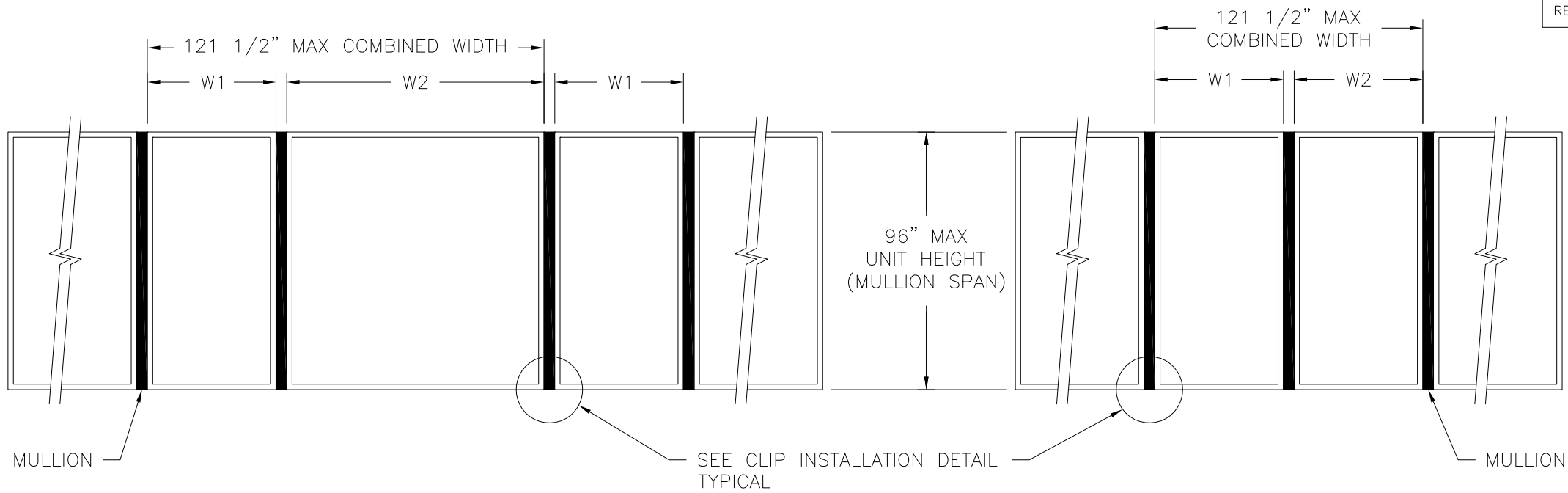
SHEET 1 OF 12

L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@rlomaspe.com

SIGNED: 06/01/2020



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



VERTICAL MULLION
SINGLE UNITS
SEE CHART #1 FOR RATINGS

CHART #1
Design pressure rating (psf)

Mullion span (in)	Tributary width (in)						
	24.00	30.00	36.00	42.00	48.00	54.00	60.00
24.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0
30.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0
36.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0
42.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0
48.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0
54.00	75.0	75.0	71.2	65.6	62.5	61.6	61.6
60.00	69.0	57.3	50.0	45.4	42.5	40.9	40.4
66.00	51.2	42.3	36.6	32.9	30.4	28.8	27.9
72.00	39.1	32.1	27.6	24.6	22.5	21.1	20.2
78.00	30.6	25.0	21.4	18.9	17.2	16.0	15.1
84.00	24.3	19.8	16.9	-	-	-	-
90.00	19.7	16.0	-	-	-	-	-
96.00	16.2	-	-	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3

- 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.
 4. TRIBUTARY WINDOW WIDTH (TW)= [WINDOW WIDTH (W1) + WINDOW WIDTH (W2)]/2. SEE FORMULA BELOW.

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

SLOCOMB WINDOWS & DOORS
767 SANS SOUCI PARKWAY
HANOVER TWP, PA 18706

INNERGY MULLION 10000626
VERTICAL AND HORIZONTAL
VERTICAL ELEVATION & CHARTS

DRAWN:
R.L.

DWG NO.
08-03560

REV
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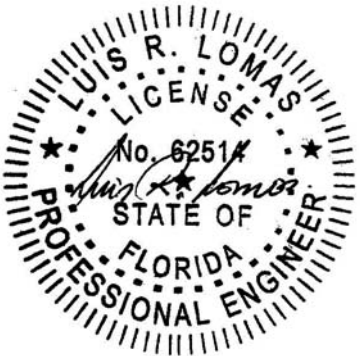
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DATE
05/14/2020

SHEET
2 OF 12

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SIGNED: 06/01/2020



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #2 Maximum design pressure chart (psf) Units with 18" transom									
Height (in)		Tributary width (in)							
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00	
24.00	18.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	
30.00	18.00	75.0	75.0	75.0	75.0	74.2	67.0	61.0	
36.00	18.00	75.0	74.5	64.7	57.6	51.9	47.2	43.3	
42.00	18.00	63.3	52.7	45.7	40.9	37.2	34.1	31.5	
48.00	18.00	46.3	38.4	33.3	29.8	27.2	25.1	23.4	
54.00	18.00	34.7	28.8	24.9	22.2	20.3	18.8	17.6	
60.00	18.00	26.7	22.1	19.1	17.0	15.5	-	-	
66.00	18.00	20.9	17.3	-	-	-	-	-	
72.00	18.00	16.7	-	-	-	-	-	-	

IMPACT RATED UP TO WIND ZONE 3

CHART #3 Maximum design pressure chart (psf) Units with 24" transom									
Height (in)		Tributary width (in)							
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00	
24.00	24.00	75.0	75.0	75.0	75.0	72.3	64.9	58.8	
30.00	24.00	75.0	75.0	65.0	56.8	50.4	45.4	41.2	
36.00	24.00	65.5	54.1	46.5	40.9	36.5	33.0	30.1	
42.00	24.00	48.2	39.7	34.1	30.2	27.1	24.6	22.6	
48.00	24.00	36.3	29.9	25.7	22.7	20.5	18.7	17.3	
54.00	24.00	28.0	23.0	19.7	17.4	15.7	-	-	
60.00	24.00	21.9	18.0	15.5	-	-	-	-	
66.00	24.00	17.5	-	-	-	-	-	-	

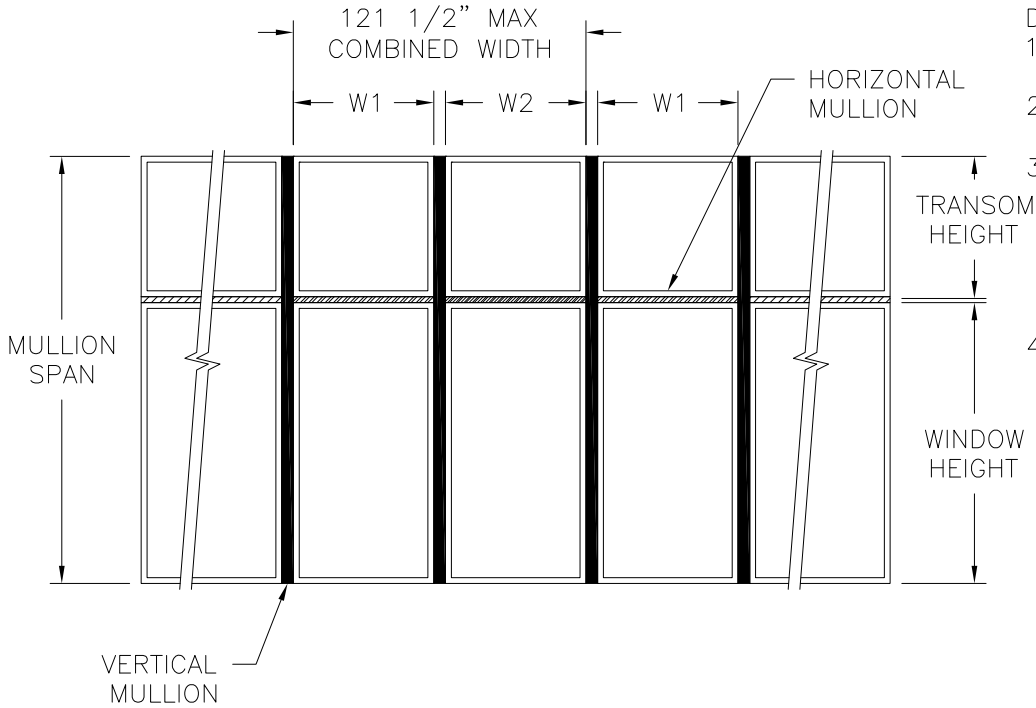
IMPACT RATED UP TO WIND ZONE 3

CHART #4 Maximum design pressure chart (psf) Units with 30" transom									
Height (in)		Tributary width (in)							
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00	
24.00	30.00	75.0	75.0	64.9	56.7	50.4	45.3	41.2	
30.00	30.00	66.2	54.6	46.7	40.8	36.2	32.6	29.6	
36.00	30.00	49.1	40.4	34.6	30.3	27.0	24.3	22.1	
42.00	30.00	37.3	30.6	26.2	23.0	20.6	18.6	17.0	
48.00	30.00	28.9	23.7	20.2	17.7	15.9	-	-	
54.00	30.00	22.7	18.6	15.9	-	-	-	-	
60.00	30.00	18.2	-	-	-	-	-	-	

IMPACT RATED UP TO WIND ZONE 3

CHART #5 Maximum design pressure chart (psf) Units with 36" transom									
Height (in)		Tributary width (in)							
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00	
24.00	36.00	65.2	53.9	46.3	40.8	36.4	32.9	30.0	
30.00	36.00	49.0	40.3	34.5	30.3	27.0	24.3	22.1	
36.00	36.00	37.6	30.8	26.3	23.1	20.6	18.5	16.8	
42.00	36.00	29.3	24.0	20.5	17.9	16.0	-	-	
48.00	36.00	23.2	19.0	16.2	-	-	-	-	
54.00	36.00	18.6	15.2	-	-	-	-	-	
60.00	36.00	15.2	-	-	-	-	-	-	

IMPACT RATED UP TO WIND ZONE 3



VERTICAL MULLION
UNITS WITH INDIVIDUAL TRANSOMS
SEE CHARTS #2, #3, #4 AND #5 FOR RATINGS

- 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.
 4. TRIBUTARY WINDOW WIDTH (TW)= [WINDOW WIDTH (W1) + WINDOW WIDTH (W2)]/2. SEE FORMULA BELOW.

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

SLOCOMB WINDOWS & DOORS 767 SANS SOUCI PARKWAY HANOVER TWP, PA 18706		
INNERGY MULLION 10000626 VERTICAL AND HORIZONTAL VX ELEVATION & CHARTS		
DRAWN: R.L.	DWG NO. 08-03560	REV -
SCALE NTS	DATE 05/14/2020	SHEET 3 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		

SIGNED: 06/01/2020

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

CHART #6
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	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
24.0	18.0	108.2	77.9	58.0	44.3	34.7	27.7	22.4	18.4
30.0	18.0	97.6	69.8	51.8	39.5	30.8	24.5	19.8	16.3
36.0	18.0	90.4	64.2	47.3	35.9	27.9	22.1	17.9	-
42.0	18.0	85.7	60.2	44.0	33.2	25.7	20.3	16.4	-
48.0	18.0	83.1	57.6	41.7	31.3	24.1	19.0	15.2	-
54.0	18.0	82.2	56.1	40.2	29.9	22.9	17.9	-	-
60.0	18.0	82.2	55.6	39.3	28.9	22.0	17.1	-	-
66.0	18.0	82.2	55.6	39.0	28.4	21.4	16.5	-	-
72.0	18.0	82.2	55.6	39.0	28.2	21.0	16.1	-	-
78.0	18.0	82.2	55.6	39.0	28.2	20.9	15.9	-	-
84.0	18.0	82.2	55.6	39.0	28.2	20.9	15.8	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #7
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	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
24.0	24.0	96.1	69.0	51.2	39.1	30.6	24.3	19.7	16.2
30.0	24.0	87.7	62.6	46.3	35.3	27.5	21.9	17.7	-
36.0	24.0	81.8	58.0	42.7	32.4	25.2	20.0	16.1	-
42.0	24.0	78.0	54.8	40.0	30.2	23.4	18.5	-	-
48.0	24.0	75.8	52.6	38.1	28.6	22.0	17.4	-	-
54.0	24.0	75.1	51.4	36.9	27.4	21.0	16.5	-	-
60.0	24.0	75.1	51.0	36.1	26.6	20.3	15.8	-	-
66.0	24.0	75.1	51.0	35.9	26.2	19.7	15.3	-	-
72.0	24.0	75.1	51.0	35.9	26.0	19.4	-	-	-
78.0	24.0	75.1	51.0	35.9	26.0	19.3	-	-	-
84.0	24.0	75.1	51.0	35.9	26.0	19.3	-	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #8
Maximum design pressure capacity chart (psf)
Units with a transom height of: 30"
Design pressures are positive and negative

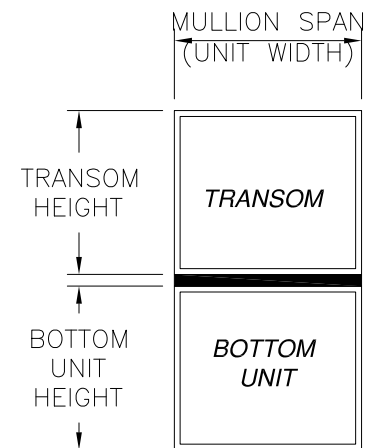
Height (in)		Unit width (in)						
Window	Transom	54.0	60.0	66.0	72.0	78.0	84.0	90.0
24.0	30.0	87.7	62.6	46.3	35.3	27.5	21.9	17.7
30.0	30.0	80.6	57.3	42.3	32.1	25.0	19.8	16.0
36.0	30.0	75.6	53.4	39.2	29.7	23.1	18.3	-
42.0	30.0	72.3	50.7	37.0	27.9	21.6	17.0	-
48.0	30.0	70.4	48.8	35.3	26.5	20.4	16.1	-
54.0	30.0	69.8	47.7	34.2	25.5	19.5	15.3	-
60.0	30.0	69.8	47.4	33.6	24.8	18.9	-	-
66.0	30.0	69.8	47.4	33.4	24.4	18.4	-	-
72.0	30.0	69.8	47.4	33.4	24.3	18.2	-	-
78.0	30.0	69.8	47.4	33.4	24.3	18.1	-	-
84.0	30.0	69.8	47.4	33.4	24.3	18.1	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #9
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	54.0	60.0	66.0	72.0	78.0	84.0	90.0
24.0	36.0	81.8	58.0	42.7	32.4	25.2	20.0	16.1
30.0	36.0	75.6	53.4	39.2	29.7	23.1	18.3	-
36.0	36.0	71.2	50.0	36.6	27.6	21.4	16.9	-
42.0	36.0	68.3	47.6	34.6	26.0	20.1	15.9	-
48.0	36.0	66.6	46.0	33.2	24.8	19.1	15.0	-
54.0	36.0	66.0	45.0	32.2	23.9	18.3	-	-
60.0	36.0	66.0	44.7	31.7	23.3	17.7	-	-
66.0	36.0	66.0	44.7	31.5	23.0	17.3	-	-
72.0	36.0	66.0	44.7	31.5	22.9	17.1	-	-
78.0	36.0	66.0	44.7	31.5	22.9	17.0	-	-
84.0	36.0	66.0	44.7	31.5	22.9	17.0	-	-

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

SINGLE WITH TRANSOM

SEE CHARTS #6, #7, #8 AND #9 FOR RATINGS

DESIGN PRESSURE TABLE INSTRUCTIONS:

1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2. DETERMINE MULLION SPAN BASED ON PRODUCT TO BE INSTALLED.
3. TO DETERMINE MULLION RATING LOCATE MULLION SPAN COLUMN AND BOTTOM UNIT HEIGHT ROW. RATING FOR MULLION IS LOCATED AT INTERSECTION OF COLUMN (MULLION SPAN) AND ROW (BOTTOM UNIT HEIGHT).
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.

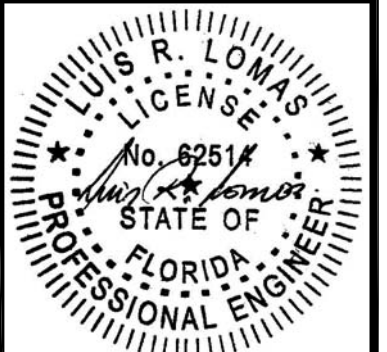
SIGNED: 06/01/2020

SLOCOMB WINDOWS & DOORS

767 SANS SOUCI PARKWAY
HANOVER TWP, PA 18706

INNERGY MULLION 10000626
VERTICAL AND HORIZONTAL
SINGLE UNIT WITH TRANSOM

DRAWN: R.L.	DWG NO. 08-03560	REV -
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Luis R. Lomas P.E.
FL No.: 62514

CHART #10

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)						
		24.00	36.00	48.00	60.00	72.00	84.00	96.00
Window	Transom	12.00	18.00	24.00	30.00	36.00	42.00	48.00
24.00	18.00	150.0	150.0	150.0	75.9	43.2	26.9	17.9
30.00	18.00	150.0	150.0	135.9	67.7	38.4	23.8	15.8
36.00	18.00	150.0	150.0	122.7	61.3	34.7	21.5	-
42.00	18.00	150.0	150.0	111.8	56.0	31.8	19.6	-
48.00	18.00	150.0	150.0	102.7	51.5	29.3	18.1	-
54.00	18.00	150.0	150.0	95.0	47.7	27.1	16.8	-
60.00	18.00	150.0	150.0	88.3	44.4	25.3	15.7	-
66.00	18.00	150.0	150.0	82.6	41.6	23.7	-	-
72.00	18.00	150.0	150.0	77.5	39.1	22.3	-	-
78.00	18.00	150.0	150.0	73.0	36.8	21.0	-	-
84.00	18.00	150.0	150.0	69.0	34.8	19.9	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #11

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)						
		24.00	36.00	48.00	60.00	72.00	84.00	96.00
Window	Transom	12.00	18.00	24.00	30.00	36.00	42.00	48.00
24.00	24.00	150.0	150.0	136.3	67.4	38.3	23.8	15.8
30.00	24.00	150.0	150.0	123.0	60.9	34.4	21.3	-
36.00	24.00	150.0	150.0	112.1	55.6	31.4	19.4	-
42.00	24.00	150.0	150.0	103.0	51.2	29.0	17.9	-
48.00	24.00	150.0	150.0	95.2	47.5	26.9	16.6	-
54.00	24.00	150.0	150.0	88.5	44.2	25.1	15.5	-
60.00	24.00	150.0	150.0	82.7	41.4	23.5	-	-
66.00	24.00	150.0	150.0	77.6	38.9	22.1	-	-
72.00	24.00	150.0	150.0	73.1	36.7	20.9	-	-
78.00	24.00	150.0	150.0	69.1	34.7	19.8	-	-
84.00	24.00	150.0	146.0	65.5	32.9	18.8	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #12

Maximum design pressure capacity chart (psf)

Units with transom height of: 30 in

Design pressures are positive and negative

Height (in)		Span and Tributary width (in)					
		24.00	36.00	48.00	60.00	72.00	84.00
Window	Transom	12.00	18.00	24.00	30.00	36.00	42.00
24.00	30.00	150.0	150.0	125.5	61.3	34.6	21.4
30.00	30.00	150.0	150.0	114.1	55.8	31.4	19.4
36.00	30.00	150.0	150.0	104.7	51.4	28.9	17.8
42.00	30.00	150.0	150.0	96.7	47.6	26.8	16.5
48.00	30.00	150.0	150.0	89.8	44.3	25.0	15.5
54.00	30.00	150.0	150.0	83.8	41.5	23.5	-
60.00	30.00	150.0	150.0	78.6	39.0	22.1	-
66.00	30.00	150.0	150.0	74.0	36.8	20.8	-
72.00	30.00	150.0	150.0	69.9	34.8	19.7	-
78.00	30.00	150.0	149.6	66.2	33.0	18.8	-
84.00	30.00	150.0	142.6	62.9	31.4	17.9	-

IMPACT RATED UP TO WIND ZONE 3

CHART #13

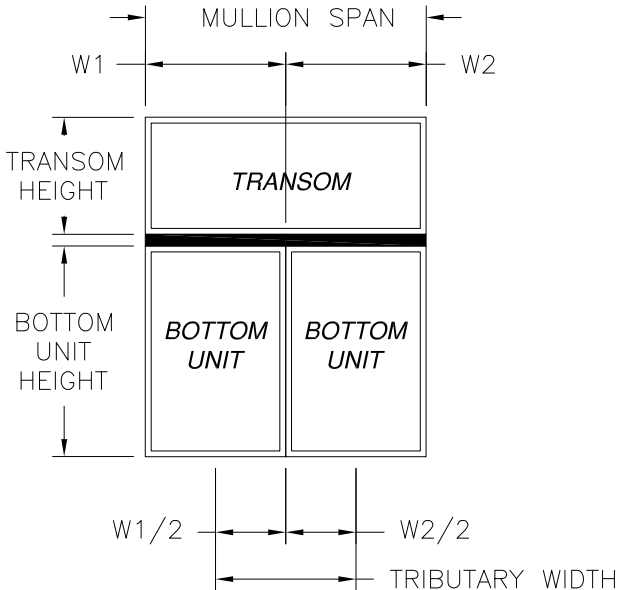
Maximum design pressure capacity chart (psf)

Units with transom height of: 36 in

Design pressures are positive and negative

Height (in)		Span and Tributary width (in)					
		24.00	36.00	48.00	60.00	72.00	84.00
Window	Transom	12.00	18.00	24.00	30.00	36.00	42.00
24.00	36.00	150.0	150.0	118.5	56.9	31.8	19.6
30.00	36.00	150.0	150.0	108.3	52.1	29.1	17.9
36.00	36.00	150.0	150.0	99.7	48.3	26.9	16.5
42.00	36.00	150.0	150.0	92.4	44.9	25.1	15.4
48.00	36.00	150.0	150.0	86.1	42.0	23.5	-
54.00	36.00	150.0	150.0	80.6	39.4	22.1	-
60.00	36.00	150.0	150.0	75.8	37.2	20.9	-
66.00	36.00	150.0	150.0	71.5	35.1	19.8	-
72.00	36.00	150.0	150.0	67.7	33.3	18.8	-
78.00	36.00	150.0	148.4	64.2	31.7	17.9	-
84.00	36.00	150.0	141.5	61.1	30.2	17.1	-

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION
TWIN UNITS WITH SINGLE TRANSOM
SEE CHARTS #10, #11, #12, AND #13 FOR RATINGS

- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA 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.
 7. TRIBUTARY WINDOW WIDTH (TW)= [WINDOW WIDTH (W1) + WINDOW WIDTH (W2)]/2. SEE FORMULA BELOW.

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

SLOCOMB WINDOWS & DOORS

767 SANS SOUCI PARKWAY
HANOVER TWP, PA 18706

INNERGY MULLION 10000626

VERTICAL AND HORIZONTAL
TWIN WITH TRANSOM

DRAWN:
R.L.

DWG NO.
08-03560

REV
-

SCALE NTS

DATE 05/14/2020

SHEET 5 OF 12

L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

434-688-0609 rllomas@rlomaspe.com

SIGNED: 06/01/2020



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

CHART # 14

Maximum Dp capacity chart (psf)								
Dps are positive and negative								
Height (in)		Span and Tributary width (in)						
Bottom unit	Transom	54.00	63.00	72.00	81.00	90.00	96.00	
		18.00	21.00	24.00	27.00	30.00	32.00	
30.00	18.00	93.1	58.1	38.6	27.0	19.5	16.0	
36.00	18.00	83.2	52.0	34.6	24.1	17.5	-	
42.00	18.00	75.2	47.0	31.3	21.9	15.9	-	
48.00	18.00	68.6	42.9	28.6	20.0	-	-	
54.00	18.00	63.0	39.5	26.3	18.4	-	-	
60.00	18.00	58.3	36.5	24.4	17.0	-	-	
66.00	18.00	54.3	34.0	22.7	15.9	-	-	
72.00	18.00	50.7	31.8	21.2	-	-	-	
78.00	18.00	47.6	29.9	19.9	-	-	-	
84.00	18.00	44.9	28.2	18.8	-	-	-	

IMPACT RATED UP TO WIND ZONE 3

CHART #15

Maximum Dp capacity chart (psf)							
Dps are positive and negative							
Height (in)		Span and Tributary width (in)					
Bottom unit	Transom	54.00	63.00	72.00	81.00	90.00	
		18.00	21.00	24.00	27.00	30.00	
30.00	24.00	84.0	52.2	34.6	24.1	17.5	
36.00	24.00	75.9	47.2	31.3	21.8	15.8	
42.00	24.00	69.2	43.1	28.6	20.0	-	
48.00	24.00	63.5	39.6	26.3	18.4	-	
54.00	24.00	58.7	36.6	24.4	17.0	-	
60.00	24.00	54.6	34.1	22.7	15.9	-	
66.00	24.00	51.1	31.9	21.2	-	-	
72.00	24.00	47.9	29.9	19.9	-	-	
78.00	24.00	45.2	28.2	18.8	-	-	
84.00	24.00	42.7	26.7	17.8	-	-	

IMPACT RATED UP TO WIND ZONE 3

CHART #16

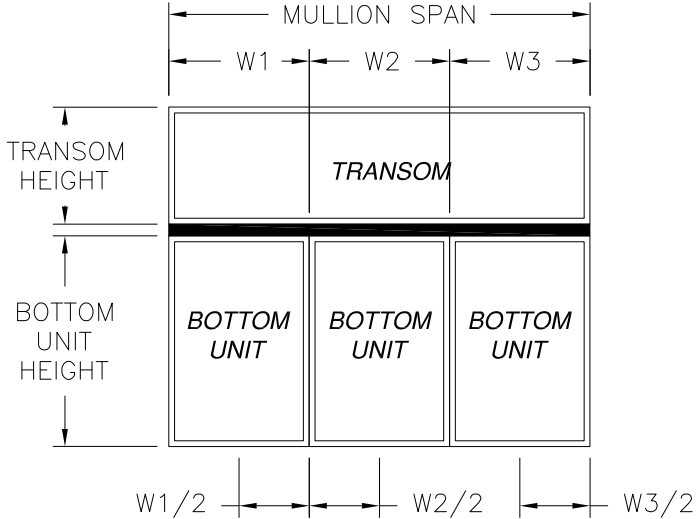
Maximum Dp capacity chart (psf)							
Dps are positive and negative							
Height (in)		Span and Tributary width (in)					
Bottom unit	Transom	54.00	63.00	72.00	81.00	90.00	
		18.00	21.00	24.00	27.00	30.00	
30.00	30.00	77.5	47.8	31.6	21.9	15.8	
36.00	30.00	70.5	43.6	28.8	20.0	-	
42.00	30.00	64.7	40.0	26.5	18.4	-	
48.00	30.00	59.7	37.0	24.5	17.1	-	
54.00	30.00	55.5	34.4	22.8	15.9	-	
60.00	30.00	51.8	32.2	21.3	-	-	
66.00	30.00	48.6	30.2	20.0	-	-	
72.00	30.00	45.7	28.4	18.9	-	-	
78.00	30.00	43.2	26.9	17.9	-	-	
84.00	30.00	40.9	25.5	17.0	-	-	

IMPACT RATED UP TO WIND ZONE 3

CHART #17

Maximum Dp capacity chart (psf)						
Dps are positive and negative						
Height (in)		Span and Tributary width (in)				
Bottom unit	Transom	54.00	63.00	72.00	81.00	
		18.00	21.00	24.00	27.00	
30.00	36.00	72.9	44.6	29.2	20.2	
36.00	36.00	66.7	40.9	26.9	18.6	
42.00	36.00	61.4	37.7	24.8	17.2	
48.00	36.00	56.9	35.0	23.1	16.0	
54.00	36.00	53.1	32.7	21.6	-	
60.00	36.00	49.7	30.7	20.3	-	
66.00	36.00	46.7	28.9	19.1	-	
72.00	36.00	44.1	27.3	18.0	-	
78.00	36.00	41.7	25.8	17.1	-	
84.00	36.00	39.6	24.5	16.3	-	

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION
TRIPLE UNITS WITH SINGLE TRANSOMS
SEE CHARTS #14, #15, #16, AND #17 FOR RATINGS

- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA 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.
 7. TRIBUTARY WINDOW WIDTH (TW)= [WINDOW WIDTH (W1) + WINDOW WIDTH (W2) + WINDOW WIDTH (W3)]/3. SEE FORMULA BELOW.

TRIBUTARY WIDTH = $\frac{W1 + W2 + W3}{3}$

SLOCOMB WINDOWS & DOORS
767 SANS SOUCI PARKWAY
HANOVER TWP, PA 18706

INNERGY MULLION 10000626
VERTICAL AND HORIZONTAL
TRIPLE WITH TRANSOM

DRAWN:
R.L.

DWG NO.
08-03560

REV
-

SCALE
NTS

DATE
05/14/2020

SHEET
6 OF 12

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1432 WOODFORD RD LEWISVILLE, NC 27023
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SIGNED: 06/01/2020

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

CHART #18							
Design pressure chart (psf)							
Height (in)		Mullion span and Tributary width (in)					
		26.0	38.0	50.0	62.0	74.0	86.0
Window	Transom	12.0	18.0	24.0	30.0	36.0	42.0
36.0	18.0	150.0	150.0	120.8	60.3	34.1	21.1
42.0	18.0	150.0	150.0	110.2	55.1	31.3	19.3
48.0	18.0	150.0	150.0	101.4	50.8	28.8	17.9
54.0	18.0	150.0	150.0	93.8	47.1	26.8	16.6
60.0	18.0	150.0	150.0	87.4	43.9	25.0	15.5
66.0	18.0	150.0	150.0	81.7	41.1	23.4	-
72.0	18.0	150.0	150.0	76.7	38.7	22.0	-
78.0	18.0	150.0	150.0	72.3	36.5	20.8	-
84.0	18.0	150.0	150.0	68.4	34.5	19.7	-

IMPACT RATED UP TO WIND ZONE 3

CHART #21							
Design pressure chart (psf)							
Height (in)		Mullion span and Tributary width (in)					
		24.0	36.0	48.0	60.0	72.0	84.0
Window	Transom	12.0	18.0	24.0	30.0	36.0	42.0
36.0	36.0	150.0	150.0	93.5	46.6	26.3	16.2
42.0	36.0	150.0	150.0	87.1	43.5	24.5	15.1
48.0	36.0	150.0	150.0	81.5	40.7	23.0	-
54.0	36.0	150.0	150.0	76.5	38.3	21.7	-
60.0	36.0	150.0	150.0	72.1	36.2	20.5	-
66.0	36.0	150.0	150.0	68.2	34.2	19.4	-
72.0	36.0	150.0	145.1	64.7	32.5	18.5	-
78.0	36.0	150.0	138.5	61.6	31.0	17.6	-
84.0	36.0	150.0	132.5	58.7	29.6	16.8	-

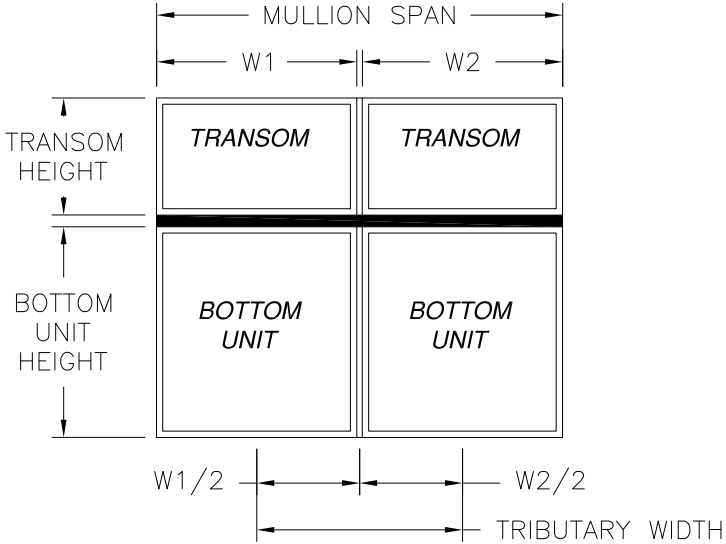
IMPACT RATED UP TO WIND ZONE 3

CHART #19							
Design pressure chart (psf)							
Height (in)		Mullion span and Tributary width (in)					
		24.0	36.0	48.0	60.0	72.0	84.0
Window	Transom	12.0	18.0	24.0	30.0	36.0	42.0
36.0	24.0	150.0	150.0	109.8	54.6	30.9	19.1
42.0	24.0	150.0	150.0	101.0	50.4	28.5	17.6
48.0	24.0	150.0	150.0	93.5	46.7	26.5	16.4
54.0	24.0	150.0	150.0	87.1	43.6	24.7	15.3
60.0	24.0	150.0	150.0	81.5	40.8	23.2	-
66.0	24.0	150.0	150.0	76.5	38.4	21.8	-
72.0	24.0	150.0	150.0	72.1	36.2	20.6	-
78.0	24.0	150.0	150.0	68.2	34.3	19.6	-
84.0	24.0	150.0	145.1	64.7	32.6	18.6	-

IMPACT RATED UP TO WIND ZONE 3

CHART #20							
Design pressure chart (psf)							
Height (in)		Mullion span and Tributary width (in)					
		24.0	36.0	48.0	60.0	72.0	84.0
Window	Transom	12.0	18.0	24.0	30.0	36.0	42.0
36.0	30.0	150.0	150.0	101.0	50.2	28.3	17.5
42.0	30.0	150.0	150.0	93.5	46.6	26.3	16.2
48.0	30.0	150.0	150.0	87.1	43.5	24.6	15.2
54.0	30.0	150.0	150.0	81.5	40.7	23.1	-
60.0	30.0	150.0	150.0	76.5	38.3	21.7	-
66.0	30.0	150.0	150.0	72.1	36.2	20.5	-
72.0	30.0	150.0	150.0	68.2	34.2	19.5	-
78.0	30.0	150.0	145.1	64.7	32.5	18.5	-
84.0	30.0	150.0	138.5	61.6	31.0	17.6	-

IMPACT RATED UP TO WIND ZONE 3



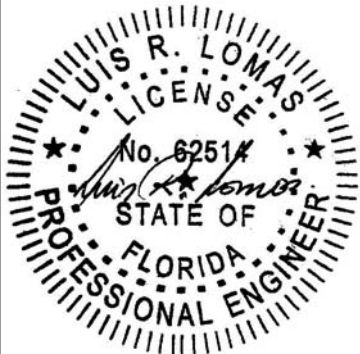
HORIZONTAL MULLION
TWIN UNITS WITH TWIN TRANSOMS
SEE CHARTS #18, #19, #20, AND #21 FOR RATINGS

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

- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA 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.
 7. TRIBUTARY WINDOW WIDTH (TW)= [WINDOW WIDTH (W1) + WINDOW WIDTH (W2)]/2. SEE FORMULA BELOW.

SLOCOMB WINDOWS & DOORS 767 SANS SOUCI PARKWAY HANOVER TWP, PA 18706		
INNERGY MULLION 10000626 VERTICAL AND HORIZONTAL TWIN WITH TWIN TRANSOMS		
DRAWN: R.L.	DWG NO. 08-03560	REV -
SCALE NTS	DATE 05/14/2020	SHEET 7 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		

SIGNED: 06/01/2020



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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #22

Design pressure (psf)				
Height (in)		Mullion span and Tributary width (in)		
		58.0	76.0	94.0
Window	Transom	18.0	24.0	30.0
36.0	18.0	82.6	34.3	17.4
42.0	18.0	74.7	31.1	15.8
48.0	18.0	68.1	28.4	-
54.0	18.0	62.7	26.2	-
60.0	18.0	58.0	24.2	-
66.0	18.0	54.0	22.6	-
72.0	18.0	50.5	21.1	-
78.0	18.0	47.4	19.9	-
84.0	18.0	44.7	18.7	-

IMPACT RATED UP TO WIND ZONE 3

CHART #25

Design pressure (psf)			
Height (in)		Mullion span and Tributary width (in)	
		58.0	76.0
Window	Transom	18.0	24.0
36.0	36.0	62.7	26.1
42.0	36.0	58.0	24.2
48.0	36.0	54.0	22.5
54.0	36.0	50.5	21.1
60.0	36.0	47.4	19.8
66.0	36.0	44.7	18.7
72.0	36.0	42.3	17.7
78.0	36.0	40.1	16.8
84.0	36.0	38.2	16.0

IMPACT RATED UP TO WIND ZONE 3

CHART #23

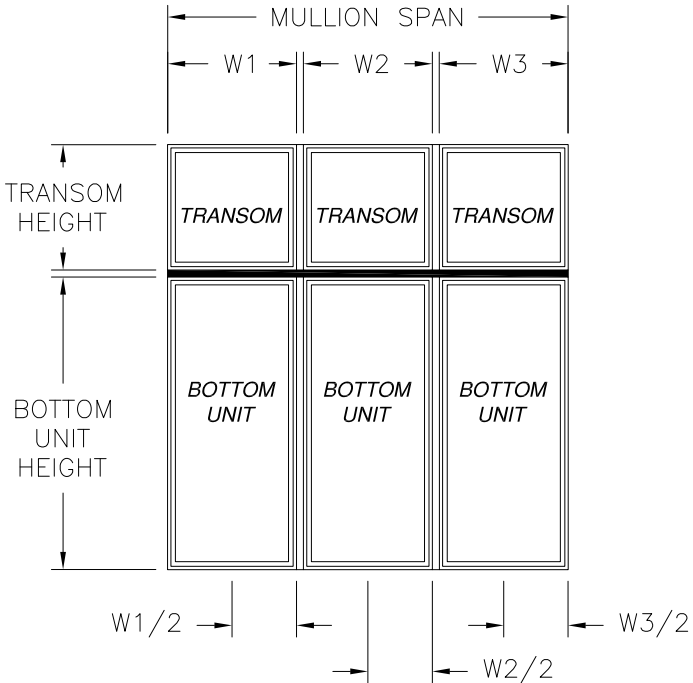
Design pressure (psf)				
Height (in)		Mullion span and Tributary width (in)		
		58.0	76.0	94.0
Window	Transom	18.0	24.0	30.0
36.0	24.0	74.7	31.0	15.7
42.0	24.0	68.1	28.4	-
48.0	24.0	62.7	26.1	-
54.0	24.0	58.0	24.2	-
60.0	24.0	54.0	22.5	-
66.0	24.0	50.5	21.1	-
72.0	24.0	47.4	19.8	-
78.0	24.0	44.7	18.7	-
84.0	24.0	42.3	17.7	-

IMPACT RATED UP TO WIND ZONE 3

CHART #24

Design pressure (psf)			
Height (in)		Mullion span and Tributary width (in)	
		58.0	76.0
Window	Transom	18.0	24.0
36.0	30.0	68.1	28.4
42.0	30.0	62.7	26.1
48.0	30.0	58.0	24.2
54.0	30.0	54.0	22.5
60.0	30.0	50.5	21.1
66.0	30.0	47.4	19.8
72.0	30.0	44.7	18.7
78.0	30.0	42.3	17.7
84.0	30.0	40.1	16.8

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

TRIPLE UNIT WITH TRIPLE TRANSOM

SEE CHARTS #22, #23, #24 AND #25 FOR RATINGS

DESIGN PRESSURE TABLE INSTRUCTIONS:

1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA 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.
7. TRIBUTARY WINDOW WIDTH (TW)= [WINDOW WIDTH (W1) + WINDOW WIDTH (W2) + WINDOW WIDTH (W3)]/3. SEE FORMULA BELOW.

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2 + W3}{3}$$

SIGNED: 06/01/2020

SLOCOMB WINDOWS & DOORS

767 SANS SOUCI PARKWAY
HANOVER TWP, PA 18706

INNERGY MULLION 10000626
VERTICAL AND HORIZONTAL
TRIPLE WITH TRIPLE TRANSOM

DRAWN: R.L.	DWG NO. 08-03560	REV -
SCALE NTS	DATE 05/14/2020	SHEET 8 OF 12

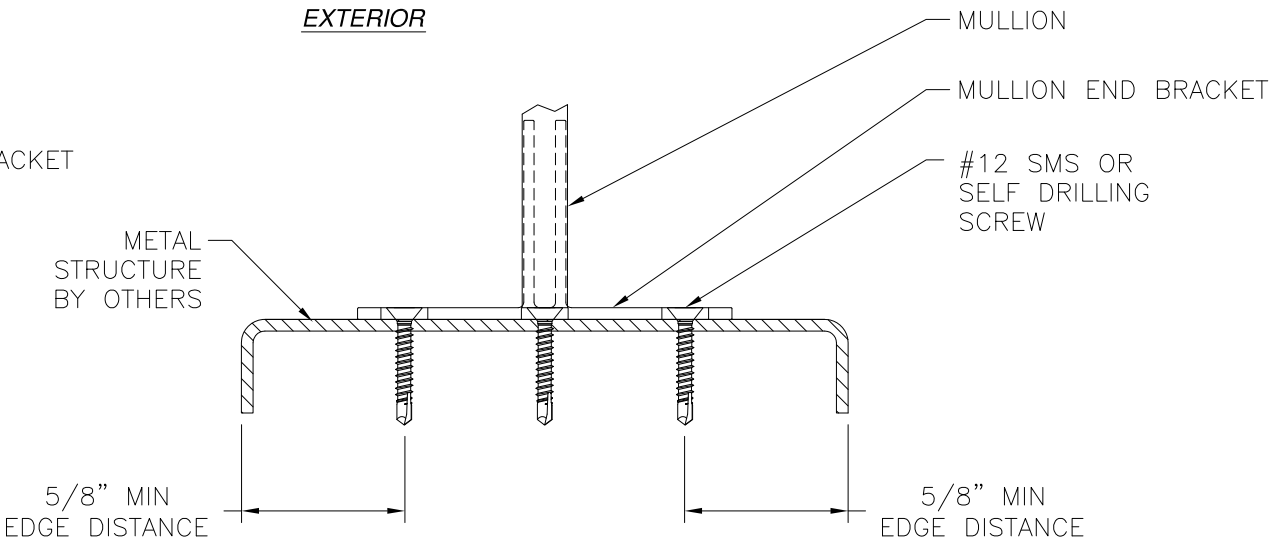
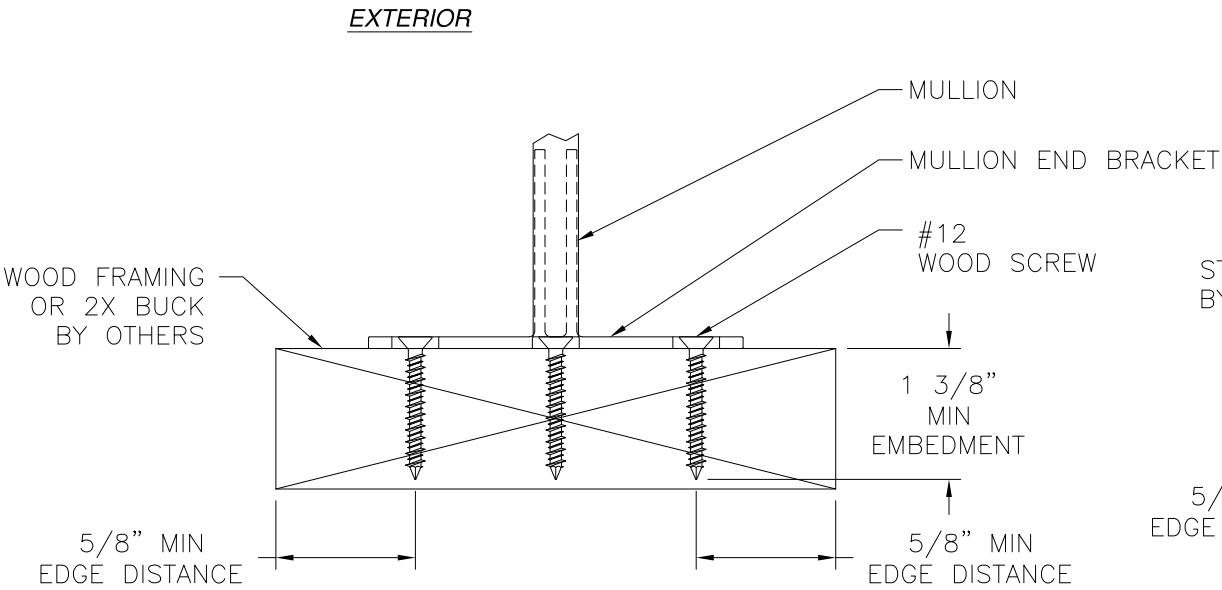
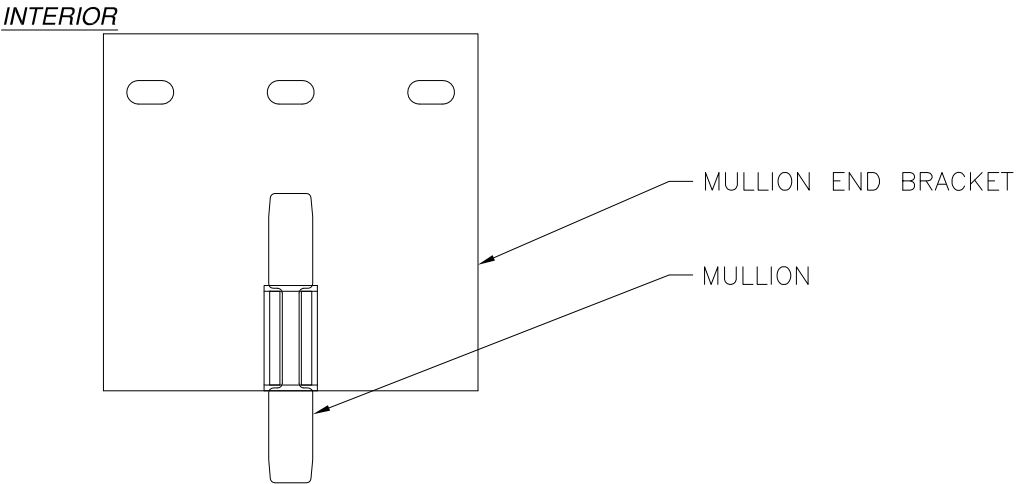
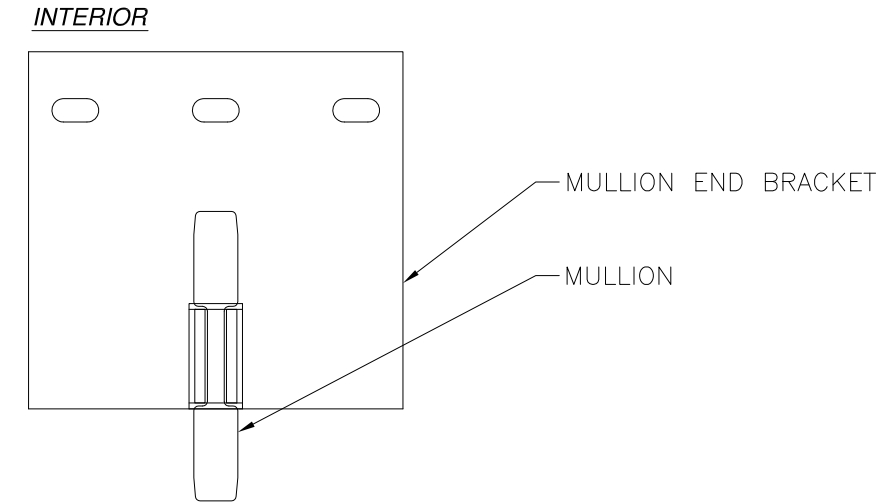
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com



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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



VERTICAL MULLION INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION
SILL SHOWN HEAD SIMILAR
VERTICAL MULLION SHOWN, HORIZONTAL
MULLION SIMILAR

VERTICAL MULLION INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION
SILL SHOWN HEAD SIMILAR
VERTICAL MULLION SHOWN, HORIZONTAL
MULLION SIMILAR

SIGNED: 06/01/2020

SLOCOMB WINDOWS & DOORS

767 SANS SOUCI PARKWAY
HANOVER TWP, PA 18706

INNERGY MULLION 10000626

VERTICAL AND HORIZONTAL
INSTALLATION DETAILS

DRAWN: R.L.

DWG NO. 08-03560

REV -

SCALE NTS

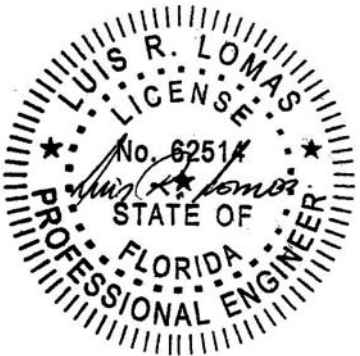
DATE 05/14/2020

SHEET 9 OF 12

L. ROBERTO LOMAS P.E.

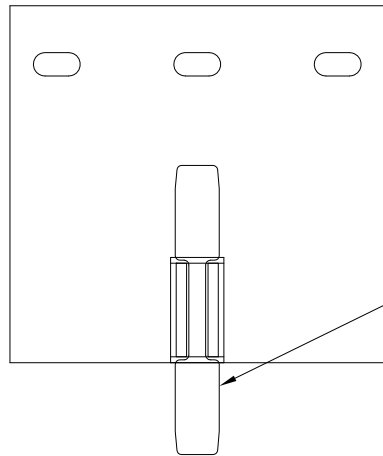
1432 WOODFORD RD LEWISVILLE, NC 27023

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INTERIOR



MULLION END BRACKET

MULLION

EXTERIOR

MULLION

MULLION END BRACKET

1/4" TAPCON

CONCRETE
STRUCTURE
BY OTHERS

1 3/4" MIN
EMBEDMENT

1 1/2" MIN
EDGE DISTANCE

1 1/2" MIN
EDGE DISTANCE

VERTICAL MULLION INSTALLATION DETAIL

CONCRETE/MASONRY INSTALLATION

SILL SHOWN HEAD SIMILAR

VERTICAL MULLION SHOWN, HORIZONTAL

MULLION SIMILAR

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
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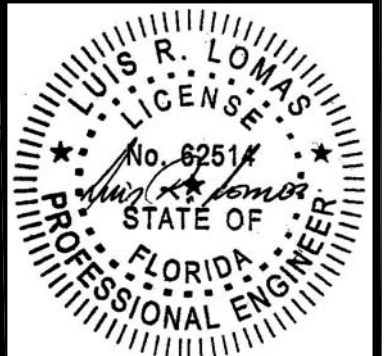
SIGNED: 06/01/2020

SLOCOMB WINDOWS & DOORS

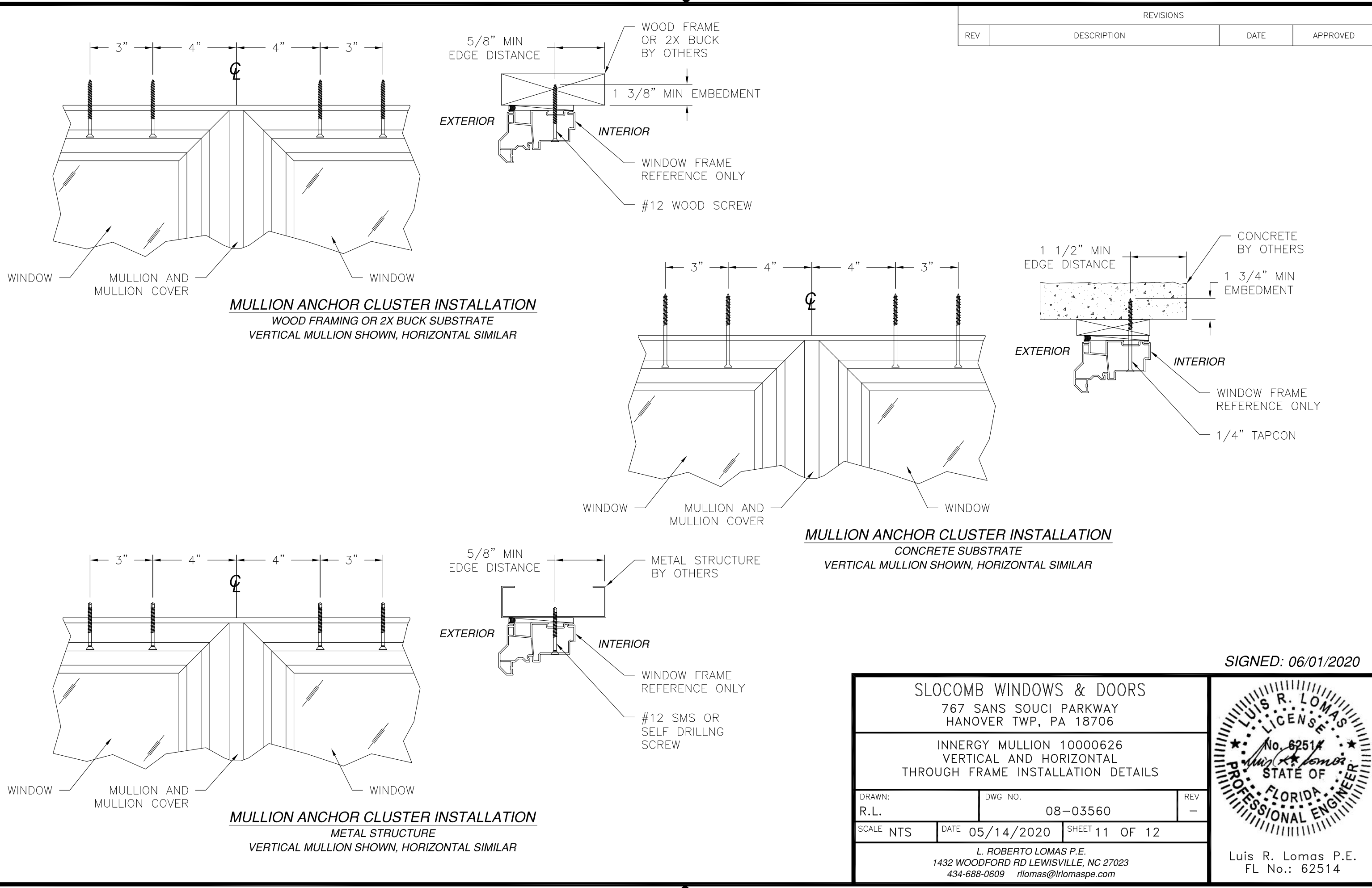
767 SANS SOUCI PARKWAY
HANOVER TWP, PA 18706

INNERGY MULLION 10000626
VERTICAL AND HORIZONTAL
INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-03560	REV -
SCALE NTS	DATE 05/14/2020	SHEET 10 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

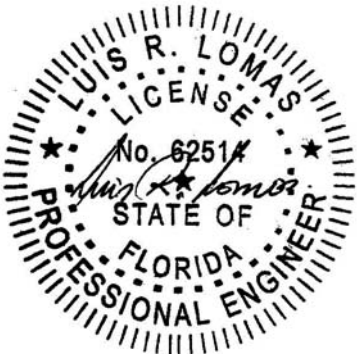
SIGNED: 06/01/2020

SLOCOMB WINDOWS & DOORS
767 SANS SOUCI PARKWAY
HANOVER TWP, PA 18706

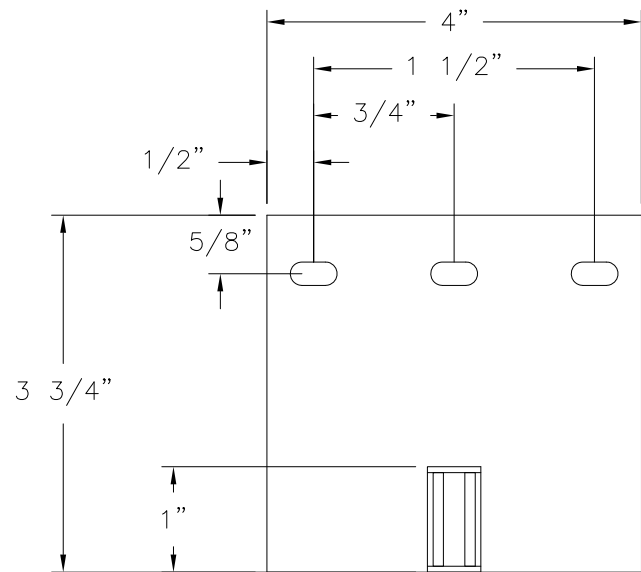
INNERGY MULLION 10000626
VERTICAL AND HORIZONTAL
THROUGH FRAME INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-03560	REV -
SCALE NTS	DATE 05/14/2020	SHEET 11 OF 12

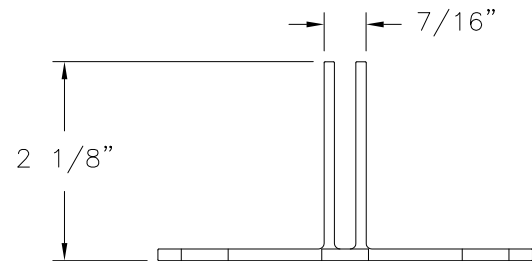
L. ROBERTO LOMAS P.E.
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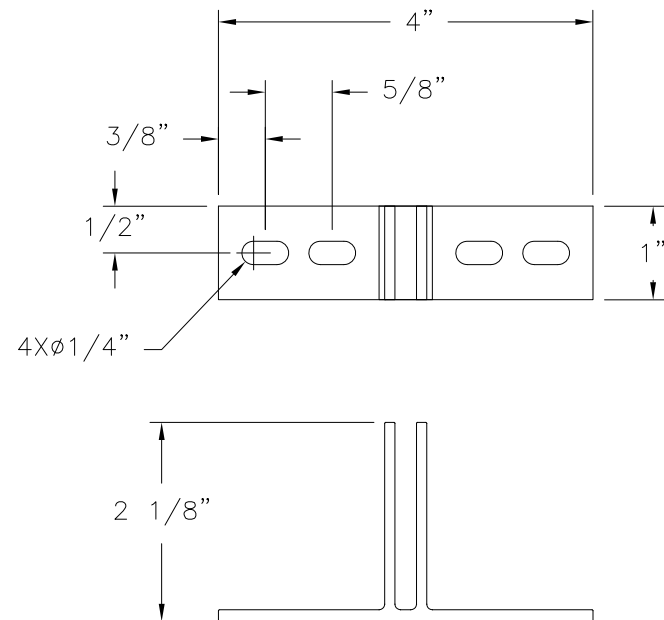
Luis R. Lomas P.E.
FL No.: 62514



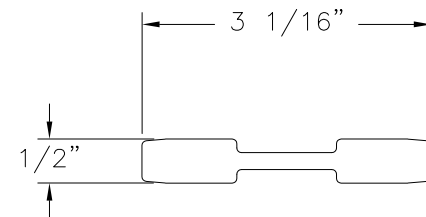
MULLION END BRACKET (10300301)
ALUMINUM 6063-T6 0.125 THICK



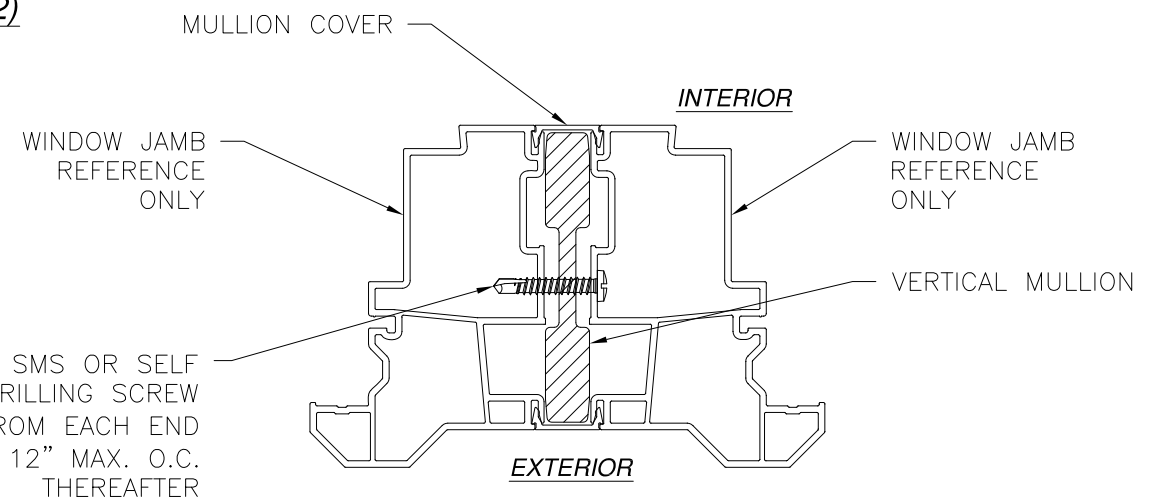
INTERSECTING MULLION BRACKET (10300302)
ALUMINUM 6063-T6 0.125 THICK



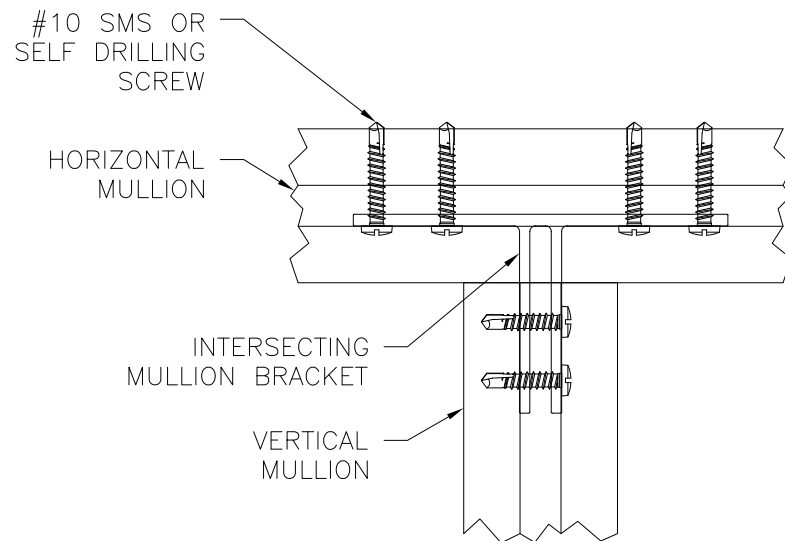
MULLION 10000626
FIBERGLASS REINFORCED POLYURETHANE
MOMENT OF INERTIA: 1.0989 IN⁴
SECTION MODULUS: 0.7112 IN³



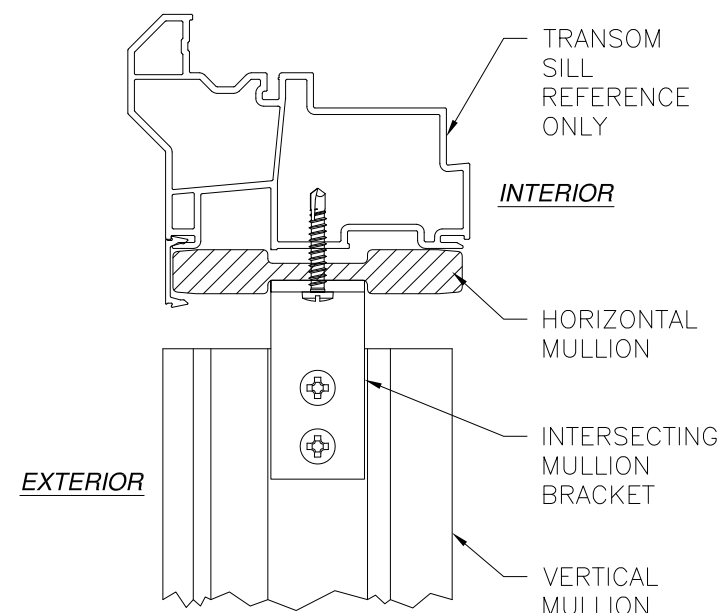
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



WINDOWS CONECTION

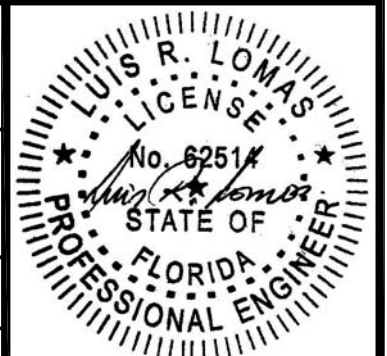


VERTICAL TO HORIZONTAL MULLION CONECTION



SIGNED: 06/01/2020

SLOCOMB WINDOWS & DOORS 767 SANS SOUCI PARKWAY HANOVER TWP, PA 18706		
INNERGY MULLION 10000626 VERTICAL AND HORIZONTAL COMPONENTS		
DRAWN: R.L.	DWG NO. 08-03560	REV -
SCALE NTS	DATE 05/14/2020	SHEET 12 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



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