

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 UP TO WIND ZONE 3.
- 5. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. DOORS AND TRANSOMS MUST BE APPROVED UNDER SEPARATE APPROVAL.
- 6. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL DOOR AND TRANSOM UNIT.

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 1/4" 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 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 DOOR AND TRANSOM FRAME TO MULLION USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF 1 3/8". LOCATE SCREWS IN ACCORDANCE WITH DOOR AND TRANSOM FRAME ANCHORING SCHEDULE AS SHOWN IN DOOR AND TRANSOM FRAME 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 3,200 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

SIGNED: 08/15/2017

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THE MUHLER COMPANY
630 SKYLARK DRIVE, SUITE U
NORTH CHARLESTON, SC 29407

WOOD HORIZONTAL
MULLIONS
NOTES

DRAWN:
A.R.

DWG NO.
08-03152

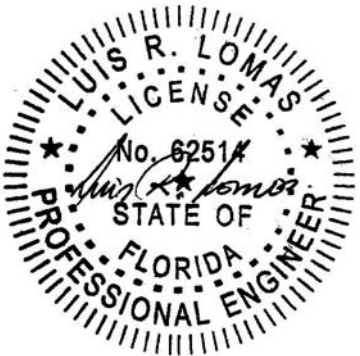
REV
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SCALE
NTS

DATE
08/14/17

SHEET
1 OF 13

L. ROBERTO LOMAS P.E.
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Luis R. Lomas P.E.
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REVISIONS			
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1 X 4 MULLION

CHART #1

Maximum design pressure capacity chart (psf)
Units with a transom height up to: 30"

Design pressures are positive and negative						
Height (in)		Unit width (in)				
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.0	30.0	120.0	120.0	120.0	120.0	120.0
84.0	30.0	120.0	120.0	120.0	120.0	120.0
90.0	30.0	120.0	120.0	120.0	120.0	120.0
96.0	30.0	120.0	120.0	120.0	120.0	120.0

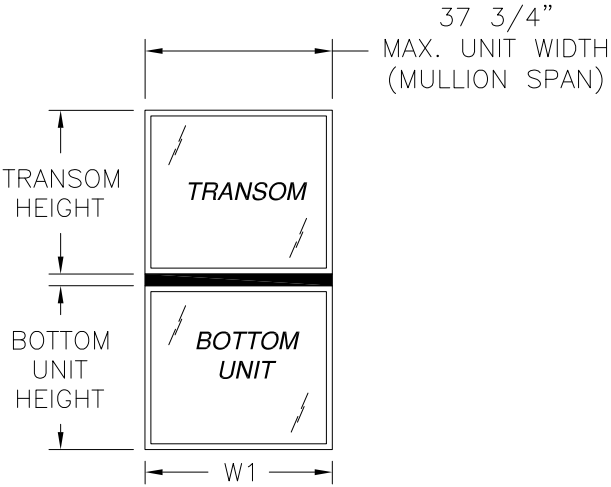
IMPACT RATED UP TO WIND ZONE 3

CHART #2

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

Design pressures are positive and negative						
Height (in)		Unit width (in)				
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.0	36.0	120.0	120.0	120.0	120.0	118.2
84.0	36.0	120.0	120.0	120.0	120.0	118.2
90.0	36.0	120.0	120.0	120.0	120.0	118.2
96.0	36.0	120.0	120.0	120.0	120.0	118.2

IMPACT RATED UP TO WIND ZONE 3



SINGLE WITH TRANSOM
CONFIGURATION

1 X 6 MULLION, 5/4 X 6 MULLION, 2 X 4 MULLION,
2 X 6 MULLION & 2 X 6 9/16 MULLION

CHART #3

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

Design pressures are positive and negative						
Height (in)		Unit width (in)				
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.0	36.0	120.0	120.0	120.0	120.0	120.0
84.0	36.0	120.0	120.0	120.0	120.0	120.0
90.0	36.0	120.0	120.0	120.0	120.0	120.0
96.0	36.0	120.0	120.0	120.0	120.0	120.0

IMPACT RATED UP TO WIND ZONE 3

- 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. LOCATE MULLION SPAN (UNIT WIDTH) DOOR AND TRANSOM HEIGHT. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND DOOR AND TRANSOM HEIGHT 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.

SIGNED: 08/15/2017

THE MUHLER COMPANY

630 SKYLARK DRIVE, SUITE U
NORTH CHARLESTON, SC 29407

WOOD HORIZONTAL
MULLIONS

CHARTS FOR SINGLE DOOR WITH TRANSOM

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SHEET
2 OF 13

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1 X 6 MULLION

CHART #4

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	18.00	67.5	54.1	44.3	37.0	31.3
84.00	18.00	64.9	52.0	42.6	35.5	30.1
90.00	18.00	61.2	49.1	40.2	33.5	28.4
96.00	18.00	58.0	46.5	38.1	31.8	26.9

IMPACT RATED UP TO WIND ZONE 3

CHART #6

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	30.00	61.6	49.1	40.1	33.4	28.2
84.00	30.00	59.4	47.4	38.7	32.2	27.2
90.00	30.00	56.3	44.9	36.7	30.5	25.8
96.00	30.00	53.6	42.7	34.9	29.1	24.6

IMPACT RATED UP TO WIND ZONE 3

5/4 X 6 MULLION

CHART #8

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	18.00	90.0	72.1	59.1	49.3	41.7
84.00	18.00	86.5	69.3	56.7	47.3	40.1
90.00	18.00	81.6	65.4	53.6	44.7	37.9
96.00	18.00	77.3	61.9	50.7	42.3	35.9

IMPACT RATED UP TO WIND ZONE 3

CHART #10

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	30.00	82.2	65.5	53.5	44.5	37.6
84.00	30.00	79.2	63.1	51.5	42.9	36.2
90.00	30.00	75.1	59.9	48.9	40.7	34.4
96.00	30.00	71.4	57.0	46.5	38.7	32.8

IMPACT RATED UP TO WIND ZONE 3

CHART #5

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	24.00	64.2	51.4	42.0	35.0	29.6
84.00	24.00	61.8	49.4	40.4	33.7	28.5
90.00	24.00	58.5	46.8	38.3	31.9	27.0
96.00	24.00	55.5	44.4	36.4	30.3	25.6

IMPACT RATED UP TO WIND ZONE 3

CHART #7

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	36.00	59.6	47.3	38.5	32.0	27.0
84.00	36.00	57.6	45.7	37.2	30.9	26.1
90.00	36.00	54.7	43.4	35.4	29.4	24.8
96.00	36.00	52.1	41.4	33.7	28.0	23.6

IMPACT RATED UP TO WIND ZONE 3

CHART #9

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	24.00	85.6	68.5	56.0	46.7	39.5
84.00	24.00	82.4	65.9	53.9	44.9	38.0
90.00	24.00	78.0	62.4	51.0	42.5	36.0
96.00	24.00	74.1	59.2	48.5	40.4	34.2

IMPACT RATED UP TO WIND ZONE 3

CHART #11

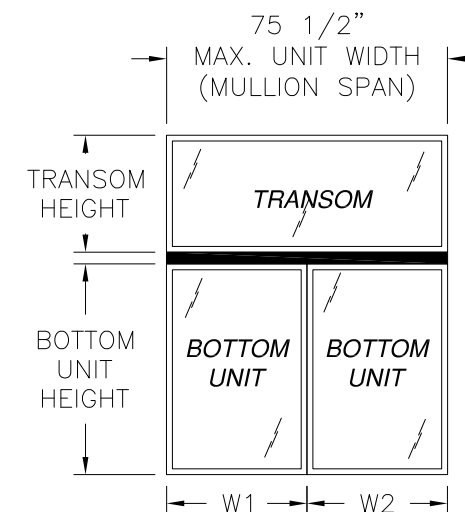
Maximum design pressure capacity chart (psf)

Units with transom height of: 36 in

Design pressures are positive and negative						
Height (in)		Span and Tributary width (in)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	36.00	79.5	63.1	51.4	42.6	36.0
84.00	36.00	76.7	60.9	49.6	41.2	34.7
90.00	36.00	72.9	57.9	47.2	39.2	33.1
96.00	36.00	69.4	55.2	45.0	37.3	31.5

IMPACT RATED UP TO WIND ZONE 3

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DOUBLE DOOR WITH TRANSOM CONFIGURATION

- 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 WIDTH) AND DOOR AND TRANSOM HEIGHT. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND DOOR AND TRANSOM HEIGHT 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.

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

SIGNED: 08/15/2017

THE MUHLER COMPANY

630 SKYLARK DRIVE, SUITE U

NORTH CHARLESTON, SC 29407

WOOD HORIZONTAL

MULLIONS

CHARTS FOR DOUBLE DOOR WITH TRANSOM

DRAWN:

A.R.

DWG NO.

08-03152

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SHEET

3

OF

13

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2 X 4 MULLION

CHART #12

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	18.00	65.6	52.5	43.0	35.9	28.9
84.00	18.00	63.0	50.5	41.3	34.5	27.8
90.00	18.00	59.5	47.6	39.0	32.6	26.4
96.00	18.00	56.3	45.1	37.0	30.8	25.2

IMPACT RATED UP TO WIND ZONE 3

CHART #14

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	30.00	59.8	47.7	38.9	32.4	25.7
84.00	30.00	57.7	46.0	37.5	31.2	24.9
90.00	30.00	54.7	43.6	35.6	29.7	23.8
96.00	30.00	52.0	41.5	33.9	28.2	22.8

IMPACT RATED UP TO WIND ZONE 3

CHART #13

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	24.00	62.4	49.9	40.8	34.0	27.2
84.00	24.00	60.0	48.0	39.3	32.7	26.3
90.00	24.00	56.8	45.4	37.2	31.0	25.0
96.00	24.00	53.9	43.1	35.3	29.4	23.9

IMPACT RATED UP TO WIND ZONE 3

CHART #15

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	36.00	57.9	46.0	37.4	31.1	24.6
84.00	36.00	55.9	44.4	36.1	30.0	23.8
90.00	36.00	53.1	42.2	34.4	28.5	22.8
96.00	36.00	50.6	40.2	32.7	27.2	21.8

IMPACT RATED UP TO WIND ZONE 3

2 X 6 MULLION

CHART #16

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	18.00	120.0	108.2	88.6	73.9	62.6
84.00	18.00	120.0	103.9	85.1	71.0	60.1
90.00	18.00	120.0	98.1	80.4	67.0	56.8
96.00	18.00	116.0	92.9	76.1	63.5	53.8

IMPACT RATED UP TO WIND ZONE 3

CHART #18

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	30.00	120.0	98.2	80.2	66.7	56.4
84.00	30.00	118.8	94.7	77.3	64.3	54.4
90.00	30.00	112.6	89.8	73.4	61.0	51.6
96.00	30.00	107.1	85.5	69.8	58.1	49.1

IMPACT RATED UP TO WIND ZONE 3

CHART #17

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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	24.00	120.0	102.7	84.0	70.0	59.2
84.00	24.00	120.0	98.8	80.9	67.4	57.0
90.00	24.00	117.0	93.6	76.6	63.8	54.0
96.00	24.00	111.1	88.8	72.7	60.6	51.3

IMPACT RATED UP TO WIND ZONE 3

CHART #19

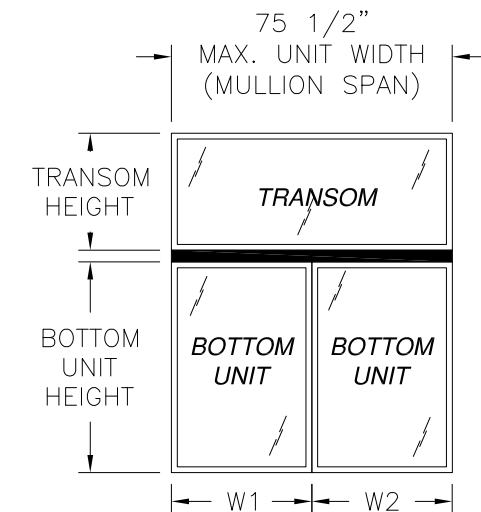
Maximum design pressure capacity chart (psf)

Units with transom height of: 36 in

Design pressures are positive and negative						
Height (in)		Span and Tributary width (in)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	36.00	119.3	94.7	77.0	63.9	54.0
84.00	36.00	115.1	91.4	74.4	61.8	52.1
90.00	36.00	109.3	86.9	70.7	58.7	49.6
96.00	36.00	104.1	82.8	67.4	56.0	47.3

IMPACT RATED UP TO WIND ZONE 3

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DOUBLE DOOR WITH TRANSM CONFIGURATION

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 WIDTH) AND DOOR AND TRANSM HEIGHT. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND DOOR AND TRANSM HEIGHT 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.

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

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THE MUHLER COMPANY

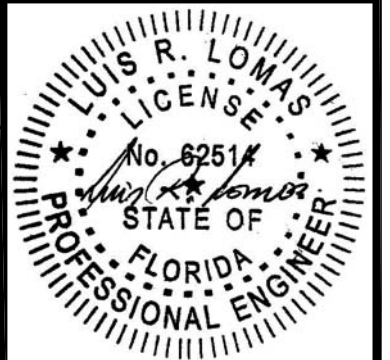
630 SKYLARK DRIVE, SUITE U
NORTH CHARLESTON, SC 29407

WOOD HORIZONTAL
MULLIONS

CHARTS FOR DOUBLE DOOR WITH TRANSM

DRAWN: A.R.	DWG NO. 08-03152	REV -
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Luis R. Lomas P.E.
FL No.: 62514

2 X 6 9/16 MULLION

CHART #20
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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	18.00	120.0	120.0	120.0	105.2	89.1
84.00	18.00	120.0	120.0	120.0	101.1	85.6
90.00	18.00	120.0	120.0	114.4	95.5	80.8
96.00	18.00	120.0	120.0	108.4	90.4	76.6

IMPACT RATED UP TO WIND ZONE 3

CHART #21
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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	24.00	120.0	120.0	119.6	99.7	84.3
84.00	24.00	120.0	120.0	115.1	95.9	81.2
90.00	24.00	120.0	120.0	109.0	90.9	76.9
96.00	24.00	120.0	120.0	103.5	86.3	73.0

IMPACT RATED UP TO WIND ZONE 3

CHART #22
Maximum design pressure capacity chart (psf)
Units with transom height of: 30 in

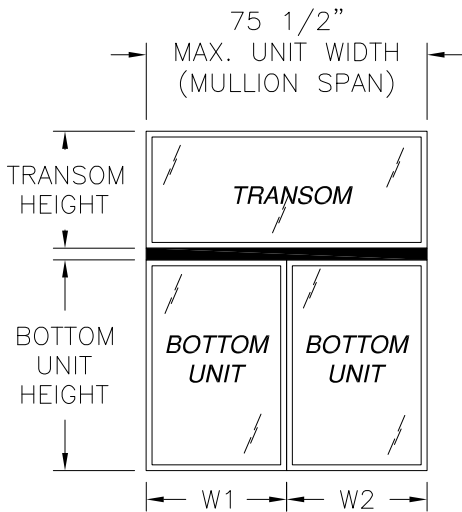
Design pressures are positive and negative						
Height (in)		Span and Tributary width (in)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	30.00	120.0	120.0	114.2	95.0	80.3
84.00	30.00	120.0	120.0	110.1	91.6	77.4
90.00	30.00	120.0	120.0	104.5	86.9	73.5
96.00	30.00	120.0	120.0	99.4	82.7	69.9

IMPACT RATED UP TO WIND ZONE 3

CHART #23
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)				
		51.50	57.50	63.50	69.50	75.50
Door	Transom	25.75	28.75	31.75	34.75	37.75
80.00	36.00	120.0	120.0	109.7	91.1	76.8
84.00	36.00	120.0	120.0	105.9	87.9	74.2
90.00	36.00	120.0	120.0	100.7	83.7	70.6
96.00	36.00	120.0	117.9	96.0	79.8	67.3

IMPACT RATED UP TO WIND ZONE 3



DOUBLE DOOR WITH TRANSOM CONFIGURATION

- 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 WIDTH) AND DOOR AND TRANSOM HEIGHT. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND DOOR AND TRANSOM HEIGHT 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 = $\frac{W1 + W2}{2}$

SIGNED: 08/15/2017

THE MUHLER COMPANY

630 SKYLARK DRIVE, SUITE U

NORTH CHARLESTON, SC 29407

WOOD HORIZONTAL

MULLIONS

CHARTS FOR DOUBLE DOOR WITH TRANSOM

DRAWN:

A.R.

DWG NO.

08-03152

REV

-

SCALE

NTS

DATE

08/14/17

SHEET

5

OF

13

L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

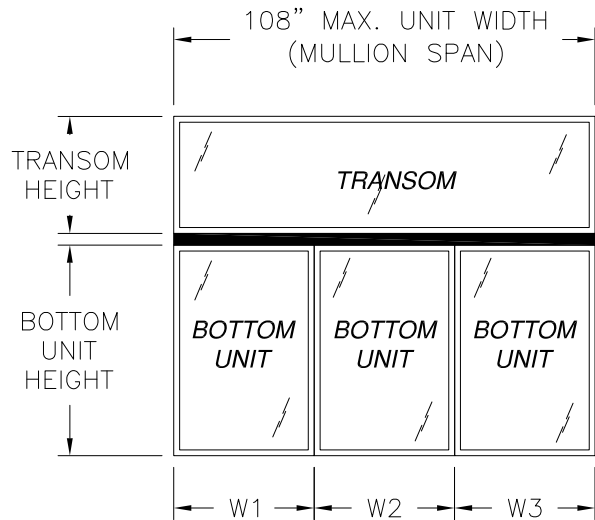
434-688-0609

rlomas@lrlomaspe.com

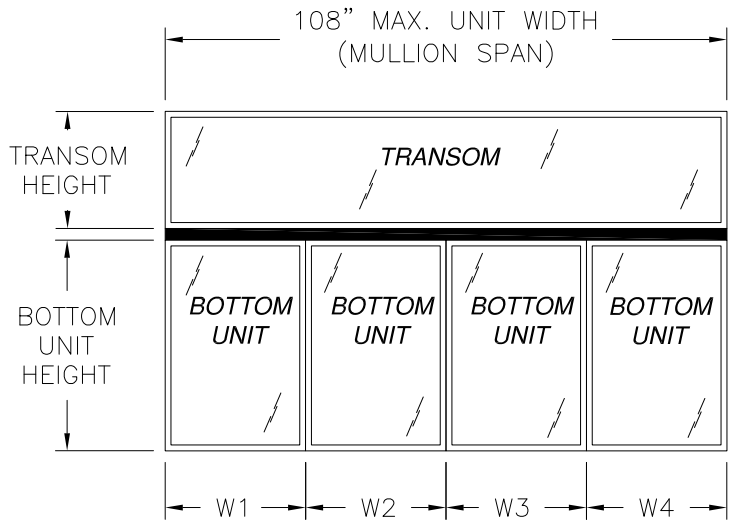
Luis R. Lomas P.E.
FL No.: 62514

1 X 6 HORIZONTAL MULLION
APPROVED CONFIGURATIONS: OXO/O, XXO/O, OXX/O, XXX/O,
OXXO/O, OXXX/O, XXXO/O, XXXX/O

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



SINGLE DOOR WITH SIDELITES AND
TRANSOM CONFIGURATION



DOUBLE DOOR WITH SIDELITES AND TRANSOM
CONFIGURATION

- 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.
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CHART #24

Design pressure for units with 18in transom (psf)									
Height (in)		Horizontal Mullion Span (in)							
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
80.00	18.00	40.8	34.3	29.2	25.2	21.9	19.3	17.1	15.2
84.00	18.00	39.2	32.9	28.1	24.2	21.1	18.5	16.4	-
88.00	18.00	37.7	31.7	27.0	23.3	20.3	17.8	15.8	-
92.00	18.00	36.4	30.6	26.0	22.4	19.6	17.2	15.2	-
96.00	18.00	35.1	29.5	25.1	21.7	18.9	16.6	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #25

Design pressure for units with 24in transom (psf)									
Height (in)		Horizontal Mullion Span (in)							
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	
80.00	24.00	38.5	32.3	27.5	23.7	20.7	18.2	16.1	
84.00	24.00	37.0	31.1	26.5	22.9	19.9	17.5	15.5	
88.00	24.00	35.7	30.0	25.6	22.0	19.2	16.9	-	
92.00	24.00	34.5	29.0	24.7	21.3	18.5	16.3	-	
96.00	24.00	33.3	28.0	23.9	20.6	17.9	15.8	-	

IMPACT RATED UP TO WIND ZONE 3

CHART #26

Design pressure for units with 30in transom (psf)								
Height (in)		Horizontal Mullion Span (in)						
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	
80.00	30.00	36.4	30.6	26.0	22.4	19.6	17.2	
84.00	30.00	35.1	29.5	25.1	21.7	18.9	16.6	
88.00	30.00	33.9	28.5	24.3	20.9	18.2	16.0	
92.00	30.00	32.8	27.5	23.5	20.2	17.6	15.5	
96.00	30.00	31.7	26.7	22.7	19.6	17.1	15.0	

IMPACT RATED UP TO WIND ZONE 3

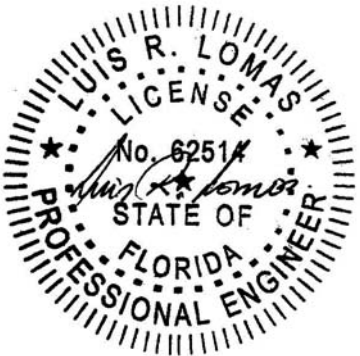
CHART #27

Design pressure for units with 36in transom (psf)								
Height (in)		Horizontal Mullion Span (in)						
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	
80.00	36.00	34.5	29.0	24.7	21.3	18.5	16.3	
84.00	36.00	33.3	28.0	23.9	20.6	17.9	15.8	
88.00	36.00	32.3	27.1	23.1	19.9	17.3	15.2	
92.00	36.00	31.2	26.3	22.4	19.3	16.8	-	
96.00	36.00	30.3	25.5	21.7	18.7	16.3	-	

IMPACT RATED UP TO WIND ZONE 3

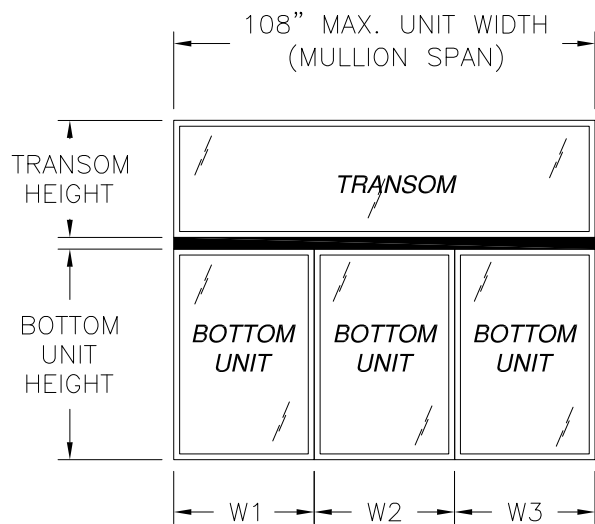
THE MUHLER COMPANY 630 SKYLARK DRIVE, SUITE U NORTH CHARLESTON, SC 29407		
WOOD HORIZONTAL MULLIONS SINGLE/DOUBLE DOOR W/SIDELITES & TRANSOM		
DRAWN: A.R.	DWG NO. 08-03152	REV -
SCALE NTS	DATE 08/14/17	SHEET 6 OF 13
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/15/2017

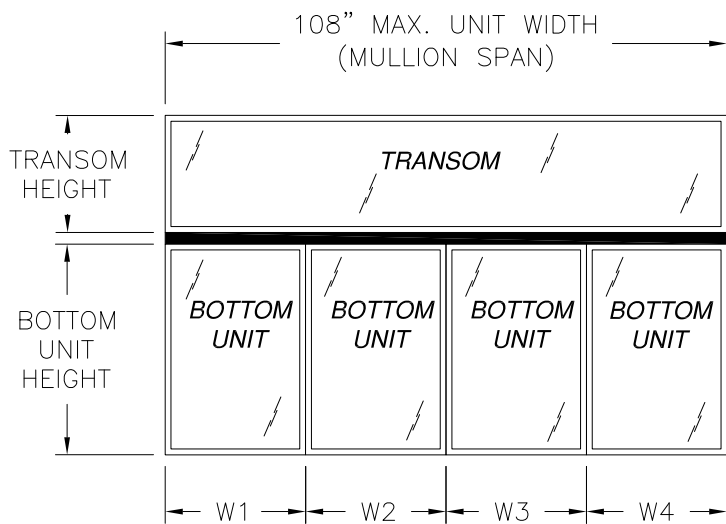


Luis R. Lomas P.E.
FL No.: 62514

5/4 X 6 HORIZONTAL MULLION
APPROVED CONFIGURATIONS: OXO/O, XXO/O, OXX/O, XXX/O,
OXXO/O, OXXX/O, XXXO/O, XXXX/O



SINGLE DOOR WITH SIDELITES AND
TRANSOM CONFIGURATION



DOUBLE DOOR WITH SIDELITES AND TRANSOM
CONFIGURATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

- 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. LOCATE MULLION SPAN (UNIT WIDTH) AND DOOR AND TRANSOM HEIGHT. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND DOOR AND TRANSOM HEIGHT 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.

CHART #28

Design pressure for units with 18in transom (psf)									
Height (in)		Horizontal Mullion Span (in)							
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
80.00	18.00	54.4	45.7	39.0	33.6	29.3	25.7	22.8	20.3
84.00	18.00	52.3	43.9	37.4	32.3	28.1	24.7	21.9	19.5
88.00	18.00	50.3	42.3	36.0	31.1	27.1	23.8	21.1	18.8
92.00	18.00	48.5	40.7	34.7	29.9	26.1	22.9	20.3	18.1
96.00	18.00	46.8	39.3	33.5	28.9	25.2	22.1	19.6	17.5

IMPACT RATED UP TO WIND ZONE 3

CHART #29

Design pressure for units with 24in transom (psf)									
Height (in)		Horizontal Mullion Span (in)							
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
80.00	24.00	51.3	43.1	36.7	31.7	27.6	24.2	21.5	19.1
84.00	24.00	49.4	41.5	35.4	30.5	26.6	23.3	20.7	18.4
88.00	24.00	47.6	40.0	34.1	29.4	25.6	22.5	19.9	17.8
92.00	24.00	46.0	38.6	32.9	28.4	24.7	21.7	19.2	17.2
96.00	24.00	44.4	37.3	31.8	27.4	23.9	21.0	18.6	16.6

IMPACT RATED UP TO WIND ZONE 3

CHART #30

Design pressure for units with 30in transom (psf)									
Height (in)		Horizontal Mullion Span (in)							
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
80.00	30.00	48.5	40.7	34.7	29.9	26.1	22.9	20.3	18.1
84.00	30.00	46.8	39.3	33.5	28.9	25.2	22.1	19.6	17.5
88.00	30.00	45.2	38.0	32.4	27.9	24.3	21.4	18.9	16.9
92.00	30.00	43.7	36.7	31.3	27.0	23.5	20.7	18.3	16.3
96.00	30.00	42.3	35.6	30.3	26.1	22.8	20.0	17.7	15.8

IMPACT RATED UP TO WIND ZONE 3

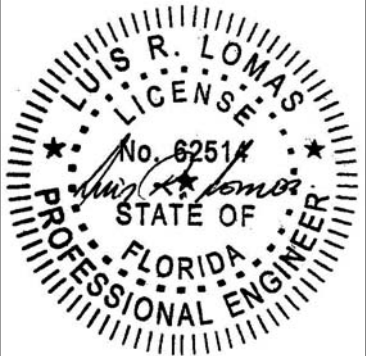
CHART #31

Design pressure for units with 36in transom (psf)									
Height (in)		Horizontal Mullion Span (in)							
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
80.00	36.00	46.0	38.6	32.9	28.4	24.7	21.7	19.2	17.2
84.00	36.00	44.4	37.3	31.8	27.4	23.9	21.0	18.6	16.6
88.00	36.00	43.0	36.1	30.8	26.5	23.1	20.3	18.0	16.1
92.00	36.00	41.7	35.0	29.8	25.7	22.4	19.7	17.4	15.6
96.00	36.00	40.4	33.9	28.9	24.9	21.7	19.1	16.9	15.1

IMPACT RATED UP TO WIND ZONE 3

SIGNED: 08/15/2017

THE MUHLER COMPANY 630 SKYLARK DRIVE, SUITE U NORTH CHARLESTON, SC 29407		
WOOD HORIZONTAL MULLIONS SINGLE/DOUBLE DOOR W/SIDELITES & TRANSOM		
DRAWN: A.R.	DWG NO. 08-03152	REV -
SCALE NTS	DATE 08/14/17	SHEET 7 OF 13
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

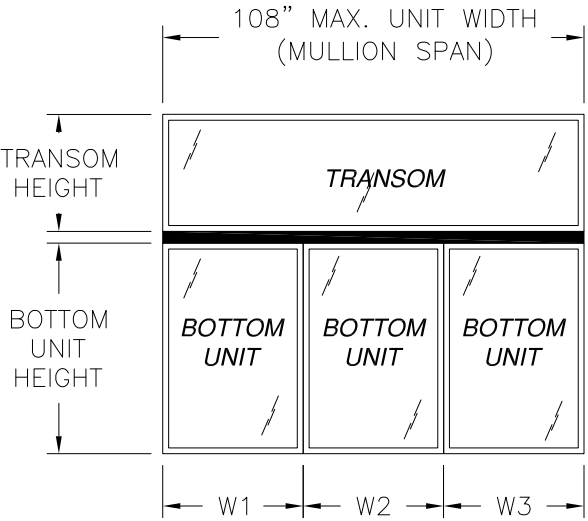


Luis R. Lomas P.E.
FL No.: 62514

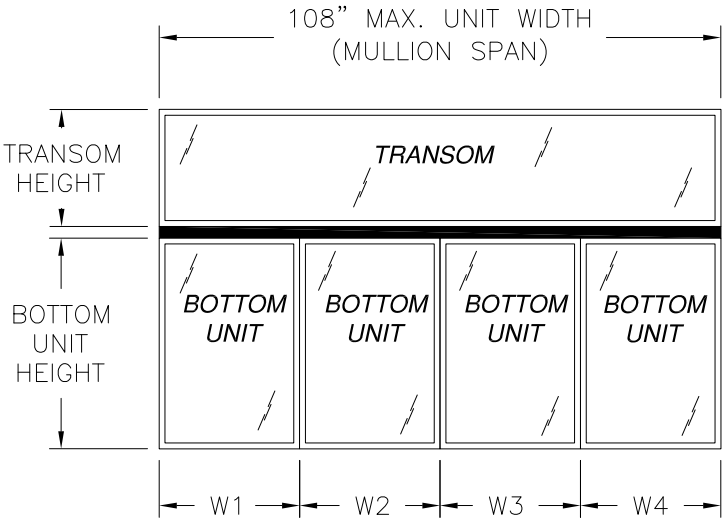
2 X 6 HORIZONTAL MULLION

APPROVED CONFIGURATIONS: OXO/O, XXO/O, OXX/O, XXX/O, OXXO/O, OXXX/O, XXXO/O, XXXX/O

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



SINGLE DOOR WITH SIDELITES AND TRANSOM CONFIGURATION



DOUBLE DOOR WITH SIDELITES AND TRANSOM CONFIGURATION

- 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.
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CHART #32

Design pressure for units with 18in transom (psf)									
Height (in)		Horizontal Mullion Span (in)							
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
80.00	18.00	81.6	68.6	58.4	50.4	43.9	38.6	34.2	30.5
84.00	18.00	78.4	65.9	56.1	48.4	42.2	37.1	32.8	29.3
88.00	18.00	75.4	63.4	54.0	46.6	40.6	35.7	31.6	28.2
92.00	18.00	72.7	61.1	52.1	44.9	39.1	34.4	30.4	27.2
96.00	18.00	70.2	58.9	50.2	43.3	37.7	33.2	29.4	26.2

IMPACT RATED UP TO WIND ZONE 3

CHART #33

Design pressure for units with 24in transom (psf)									
Height (in)		Horizontal Mullion Span (in)							
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
80.00	24.00	76.9	64.6	55.1	47.5	41.4	36.3	32.2	28.7
84.00	24.00	74.0	62.2	53.0	45.7	39.8	35.0	31.0	27.7
88.00	24.00	71.4	60.0	51.1	44.1	38.4	33.8	29.9	26.7
92.00	24.00	68.9	57.9	49.4	42.6	37.1	32.6	28.9	25.7
96.00	24.00	66.6	56.0	47.7	41.1	35.8	31.5	27.9	24.9

IMPACT RATED UP TO WIND ZONE 3

CHART #34

Design pressure for units with 30in transom (psf)									
Height (in)		Horizontal Mullion Span (in)							
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
80.00	30.00	72.7	61.1	52.1	44.9	39.1	34.4	30.4	27.2
84.00	30.00	70.2	58.9	50.2	43.3	37.7	33.2	29.4	26.2
88.00	30.00	67.8	56.9	48.5	41.8	36.4	32.0	28.4	25.3
92.00	30.00	65.6	55.1	46.9	40.5	35.3	31.0	27.4	24.5
96.00	30.00	63.5	53.3	45.4	39.2	34.1	30.0	26.6	23.7

IMPACT RATED UP TO WIND ZONE 3

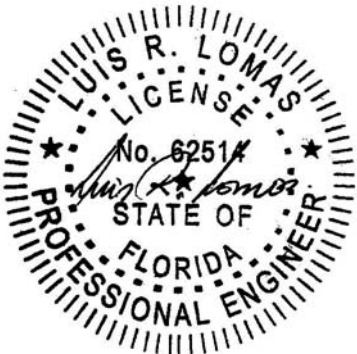
CHART #35

Design pressure for units with 36in transom (psf)									
Height (in)		Horizontal Mullion Span (in)							
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
80.00	36.00	68.9	57.9	49.4	42.6	37.1	32.6	28.9	25.7
84.00	36.00	66.6	56.0	47.7	41.1	35.8	31.5	27.9	24.9
88.00	36.00	64.5	54.2	46.2	39.8	34.7	30.5	27.0	24.1
92.00	36.00	62.5	52.5	44.7	38.6	33.6	29.5	26.2	23.3
96.00	36.00	60.6	50.9	43.4	37.4	32.6	28.6	25.4	22.6

IMPACT RATED UP TO WIND ZONE 3

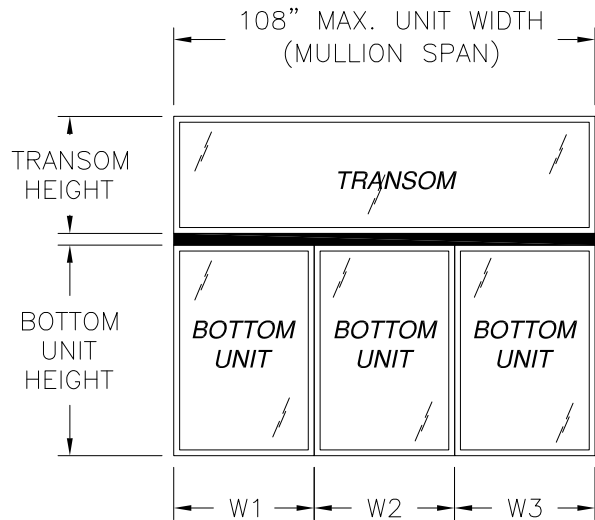
SIGNED: 08/15/2017

THE MUHLER COMPANY 630 SKYLARK DRIVE, SUITE U NORTH CHARLESTON, SC 29407		
WOOD HORIZONTAL MULLIONS SINGLE/DOUBLE DOOR W/SIDELITES & TRANSOM		
DRAWN: A.R.	DWG NO. 08-03152	REV -
SCALE NTS	DATE 08/14/17	SHEET 8 OF 13
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

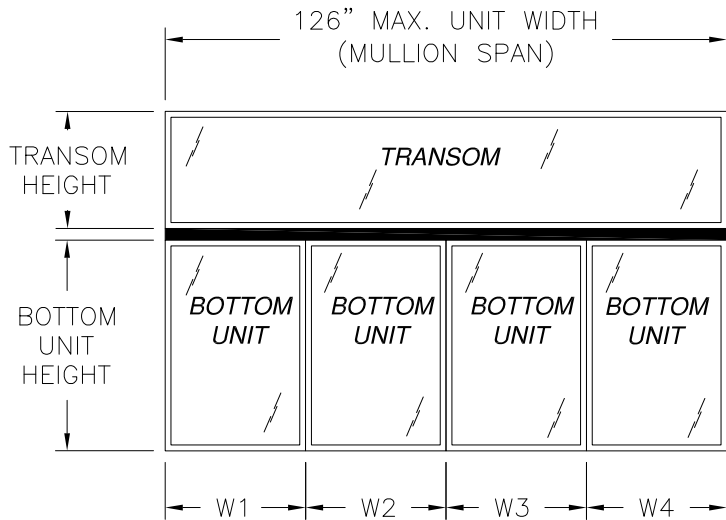


Luis R. Lomas P.E.
FL No.: 62514

2 X 6 9/16 HORIZONTAL MULLION
APPROVED CONFIGURATIONS: OXO/O, XXO/O, OXX/O, XXX/O,
OXXO/O, OXXX/O, XXXO/O, XXXX/O



SINGLE DOOR WITH SIDELITES AND
TRANSOM CONFIGURATION



DOUBLE DOOR WITH SIDELITES AND TRANSOM
CONFIGURATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

- 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. LOCATE MULLION SPAN (UNIT WIDTH) AND DOOR AND TRANSOM HEIGHT. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND DOOR AND TRANSOM HEIGHT 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.

CHART #36

Design pressure for units with 18in transom (psf)												
Height (in)		Horizontal Mullion Span (in)										
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00
80.00	18.00	116.2	97.7	83.2	71.7	62.5	54.9	48.7	43.4	39.0	35.2	31.9
84.00	18.00	111.7	93.8	79.9	68.9	60.0	52.8	46.7	41.7	37.4	33.8	30.6
88.00	18.00	107.4	90.3	76.9	66.3	57.8	50.8	45.0	40.1	36.0	32.5	29.5
92.00	18.00	103.5	87.0	74.1	63.9	55.7	48.9	43.3	38.7	34.7	31.3	28.4
96.00	18.00	99.9	83.9	71.5	61.7	53.7	47.2	41.8	37.3	33.5	30.2	27.4

IMPACT RATED UP TO WIND ZONE 3

CHART #37

Design pressure for units with 24in transom (psf)												
Height (in)		Horizontal Mullion Span (in)										
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00
80.00	24.00	109.5	92.0	78.4	67.6	58.9	51.8	45.8	40.9	36.7	33.1	30.0
84.00	24.00	105.5	88.6	75.5	65.1	56.7	49.8	44.2	39.4	35.3	31.9	28.9
88.00	24.00	101.7	85.4	72.8	62.8	54.7	48.1	42.6	38.0	34.1	30.8	27.9
92.00	24.00	98.2	82.5	70.3	60.6	52.8	46.4	41.1	36.7	32.9	29.7	26.9
96.00	24.00	94.9	79.7	68.0	58.6	51.0	44.9	39.7	35.4	31.8	28.7	26.0

IMPACT RATED UP TO WIND ZONE 3

CHART #38

Design pressure for units with 30in transom (psf)												
Height (in)		Horizontal Mullion Span (in)										
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00
80.00	30.00	103.5	87.0	74.1	63.9	55.7	48.9	43.3	38.7	34.7	31.3	28.4
84.00	30.00	99.9	83.9	71.5	61.7	53.7	47.2	41.8	37.3	33.5	30.2	27.4
88.00	30.00	96.5	81.1	69.1	59.6	51.9	45.6	40.4	36.0	32.4	29.2	26.5
92.00	30.00	93.4	78.4	66.8	57.6	50.2	44.1	39.1	34.9	31.3	28.2	25.6
96.00	30.00	90.4	76.0	64.7	55.8	48.6	42.7	37.8	33.8	30.3	27.3	24.8

IMPACT RATED UP TO WIND ZONE 3

CHART #39

Design pressure for units with 36in transom (psf)												
Height (in)		Horizontal Mullion Span (in)										
Door	Transom	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00
80.00	36.00	98.2	82.5	70.3	60.6	52.8	46.4	41.1	36.7	32.9	29.7	26.9
84.00	36.00	94.9	79.7	68.0	58.6	51.0	44.9	39.7	35.4	31.8	28.7	26.0
88.00	36.00	91.8	77.2	65.8	56.7	49.4	43.4	38.5	34.3	30.8	27.8	25.2
92.00	36.00	89.0	74.8	63.7	54.9	47.8	42.1	37.3	33.2	29.8	26.9	24.4
96.00	36.00	86.3	72.5	61.8	53.3	46.4	40.8	36.1	32.2	28.9	26.1	23.7

IMPACT RATED UP TO WIND ZONE 3

SIGNED: 08/15/2017

THE MUHLER COMPANY

630 SKYLARK DRIVE, SUITE U

NORTH CHARLESTON, SC 29407

WOOD HORIZONTAL

MULLIONS

SINGLE/DOUBLE DOOR W/SIDELITES & TRANSOM

DRAWN: A.R.

DWG NO. 08-03152

REV -

SCALE NTS

DATE 08/14/17

SHEET 9 OF 13

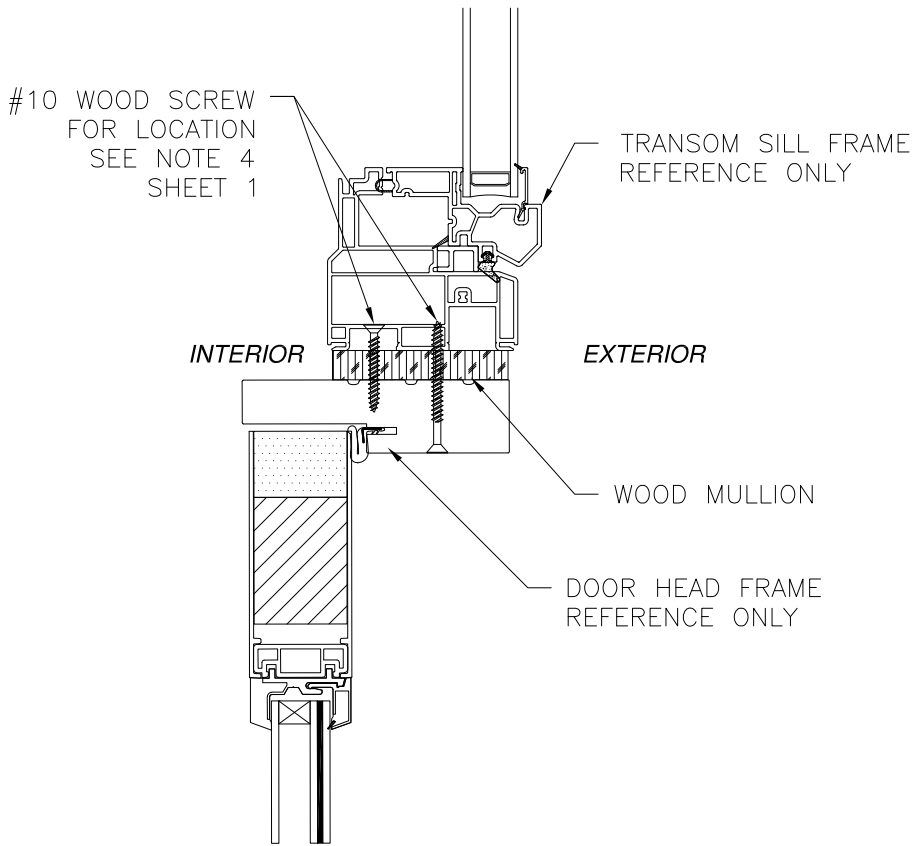
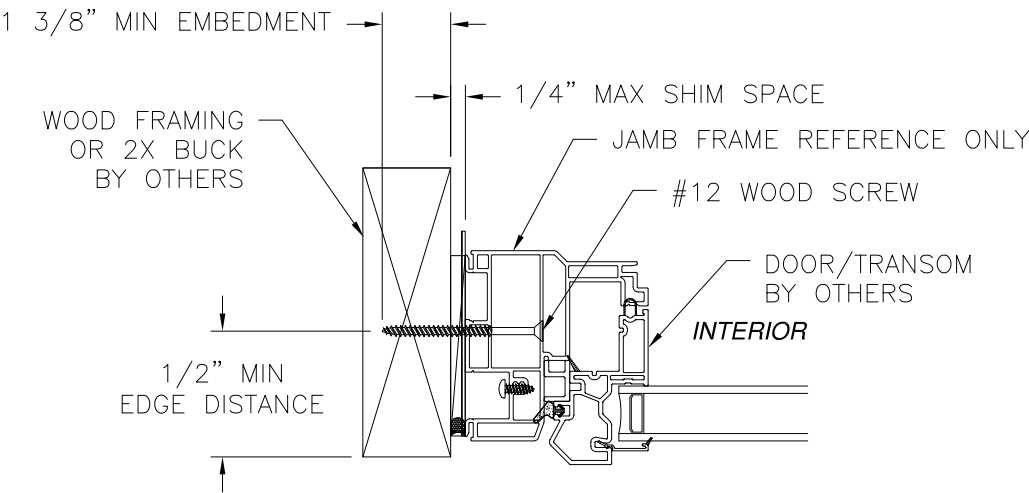
L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

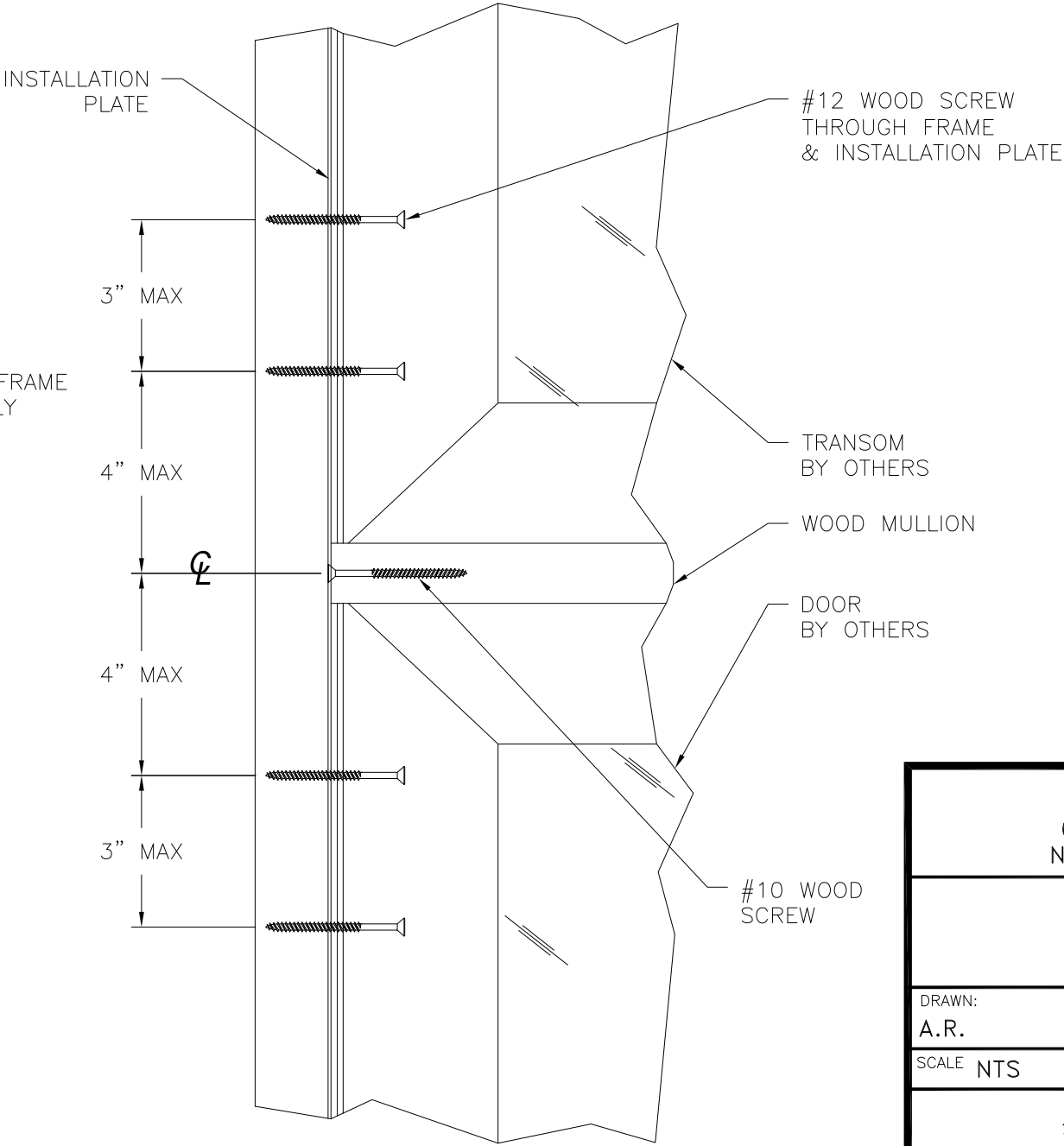
434-688-0609 rllomas@lrlomaspe.com

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



MULLION INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK SUBSTRATE



SIGNED: 08/15/2017

THE MUHLER COMPANY

630 SKYLARK DRIVE, SUITE U

NORTH CHARLESTON, SC 29407

WOOD HORIZONTAL MULLIONS

INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03152

REV -

SCALE NTS

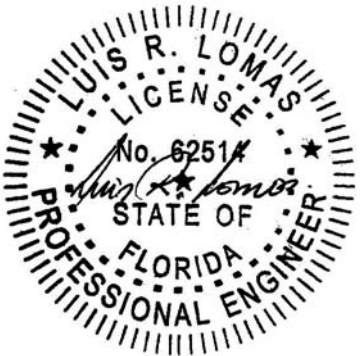
DATE 08/14/17

SHEET 10 OF 13

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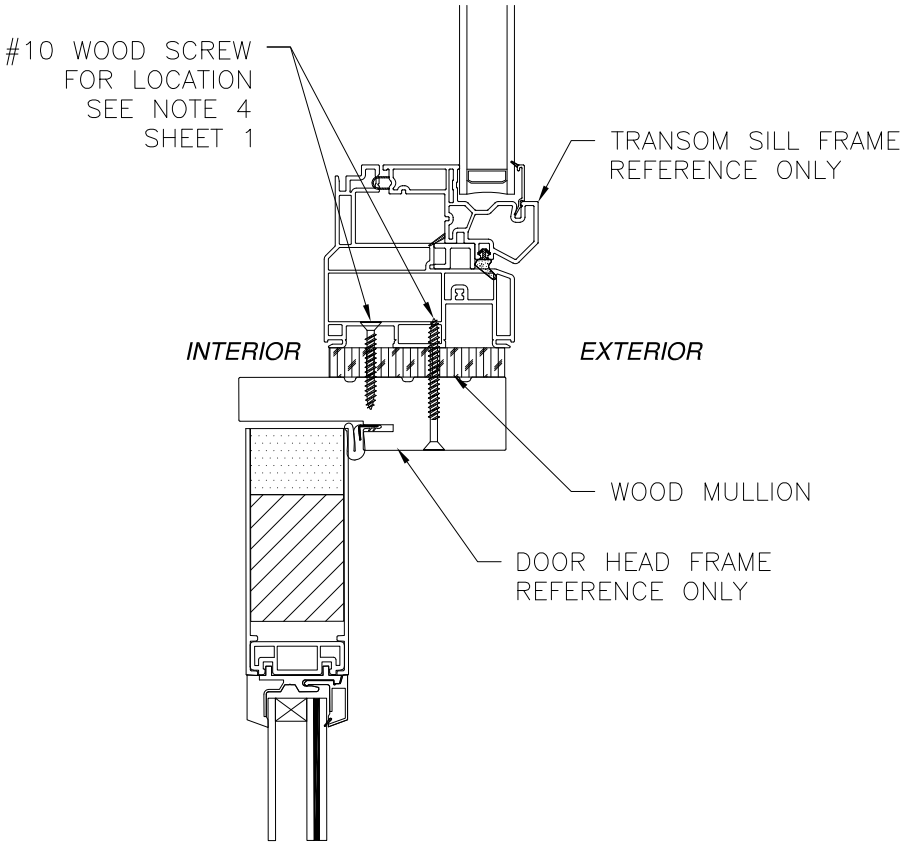
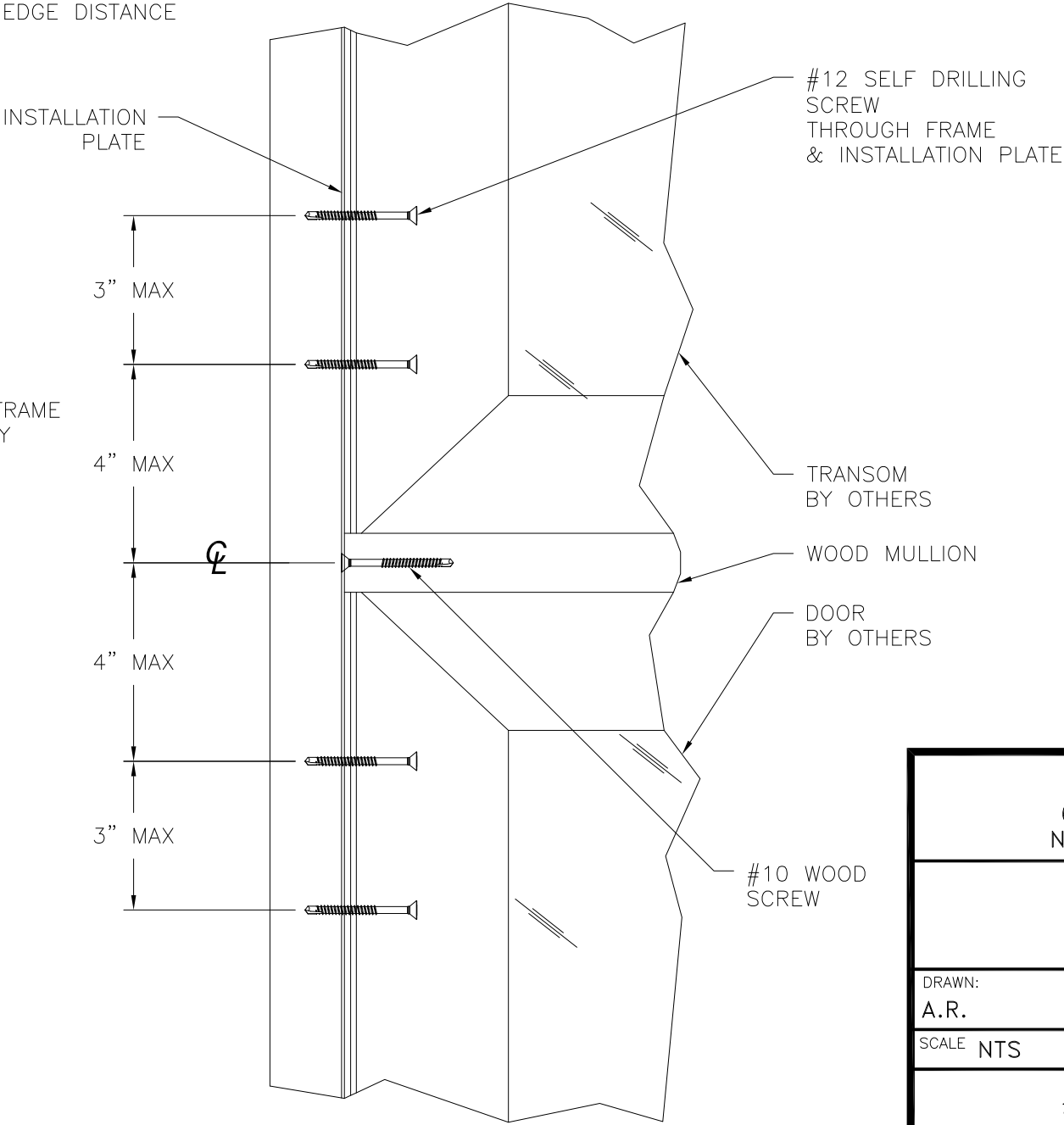
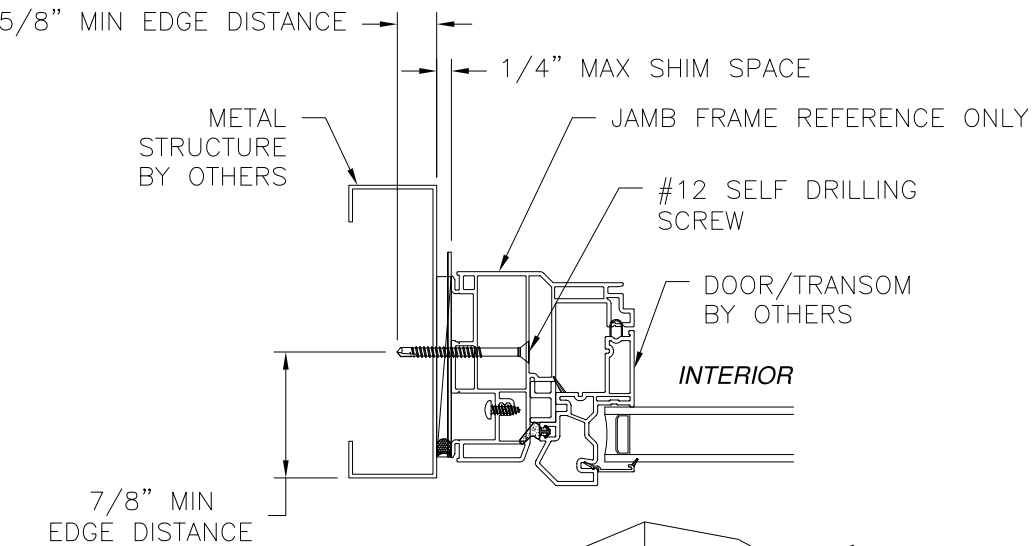
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REV	DESCRIPTION	DATE	APPROVED



MULLION INSTALLATION DETAIL
METAL STRUCTURE

SIGNED: 08/15/2017

THE MUHLER COMPANY

630 SKYLARK DRIVE, SUITE U

NORTH CHARLESTON, SC 29407

WOOD HORIZONTAL MULLIONS

INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03152

REV -

SCALE NTS

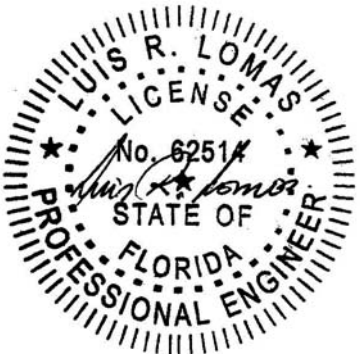
DATE 08/14/17

SHEET 11 OF 13

L. ROBERTO LOMAS P.E.

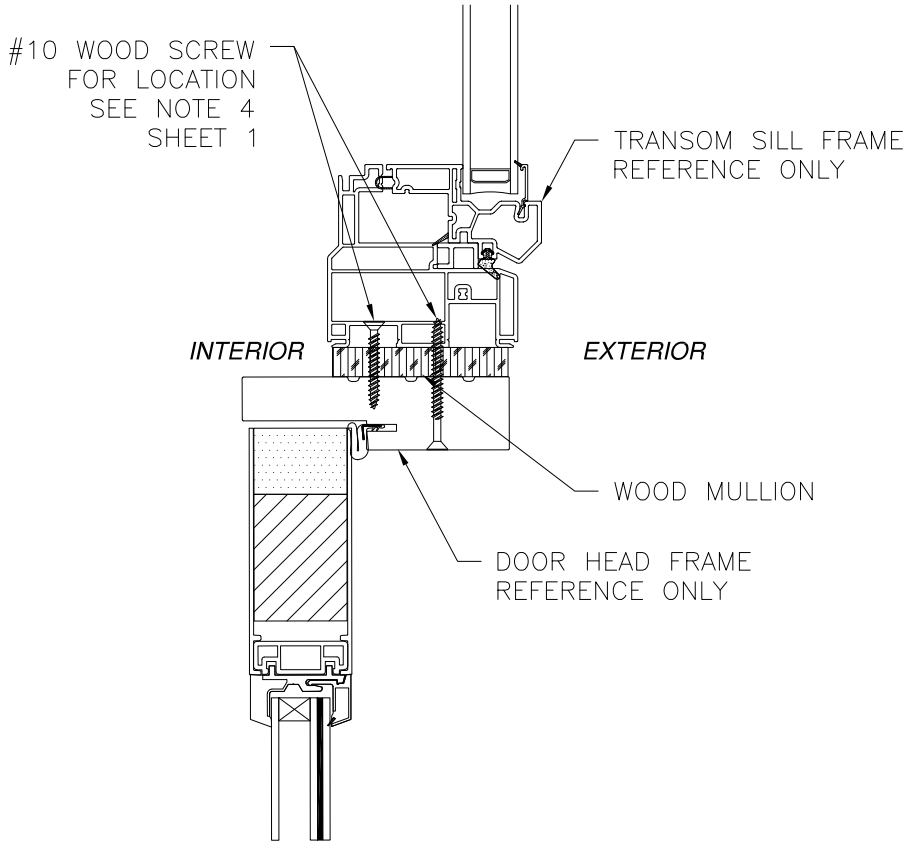
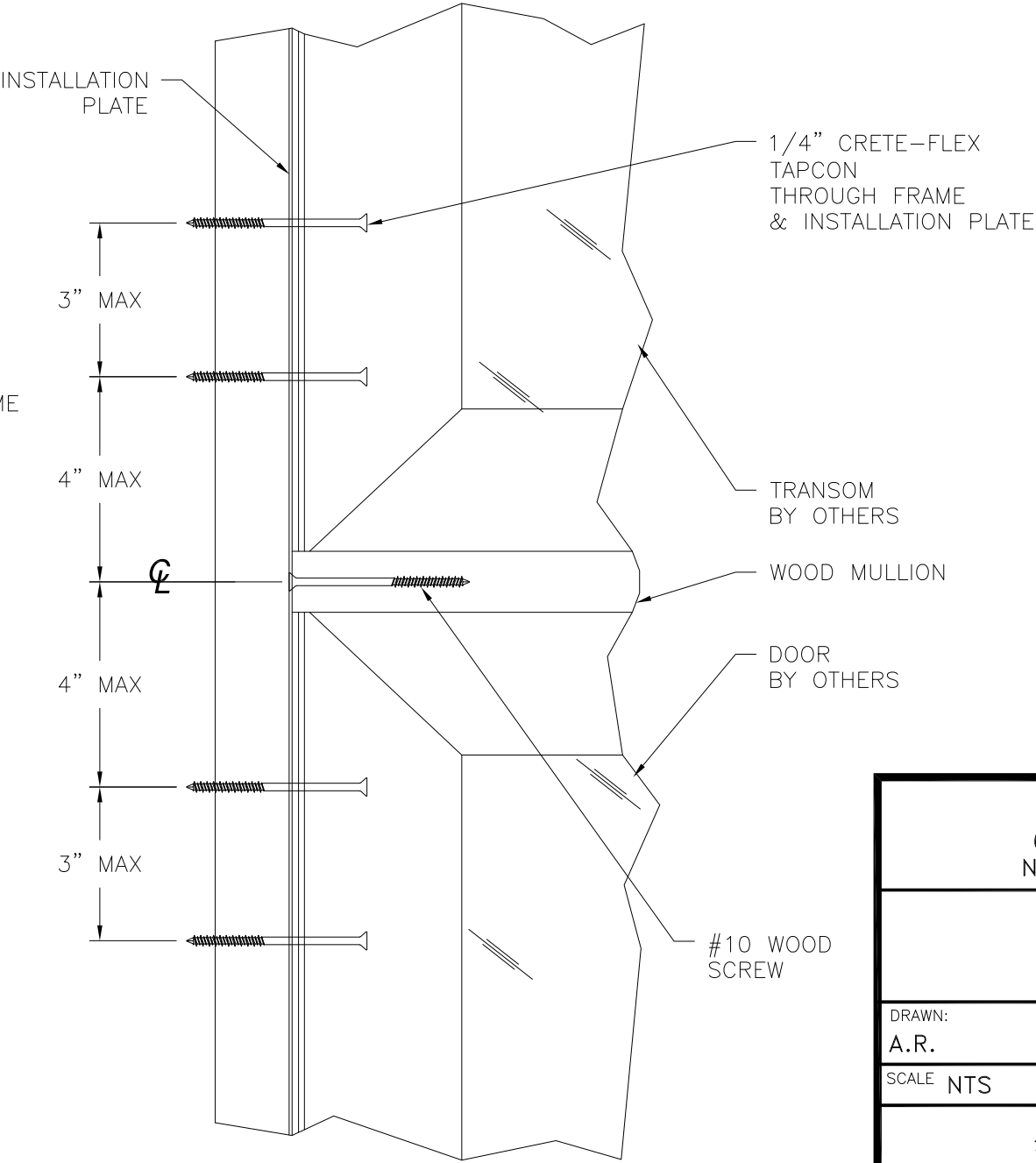
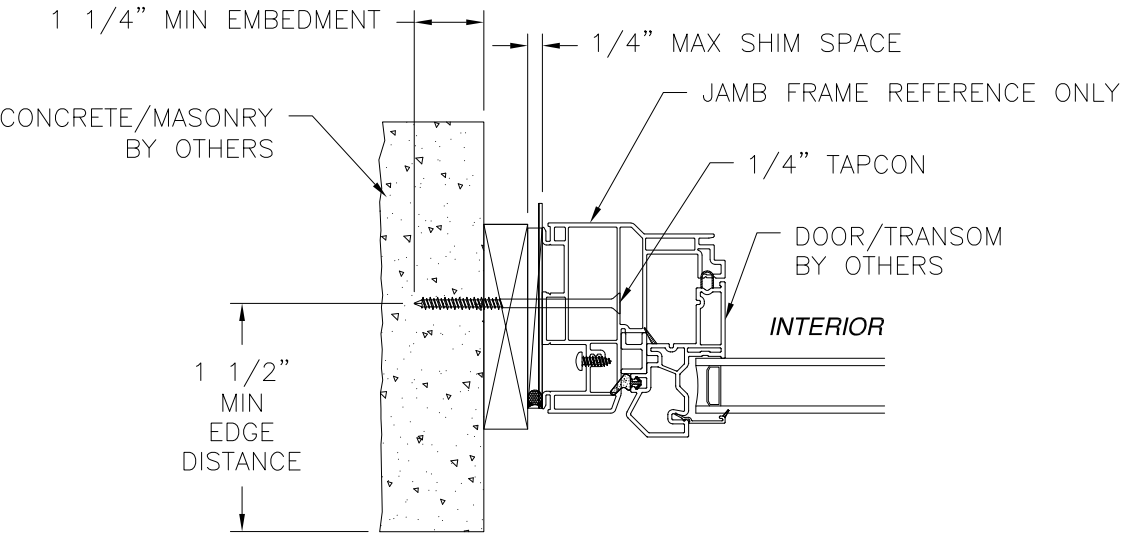
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FL No.: 62514

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REV	DESCRIPTION	DATE	APPROVED



MULLION INSTALLATION DETAIL
MASONRY/CONCRETE

THE MUHLER COMPANY

630 SKYLARK DRIVE, SUITE U

NORTH CHARLESTON, SC 29407

WOOD HORIZONTAL

MULLIONS

INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03152

REV -

SCALE NTS

DATE 08/14/17

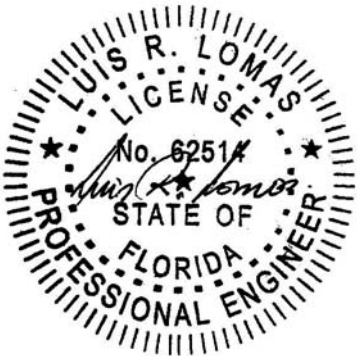
SHEET 12 OF 13

L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

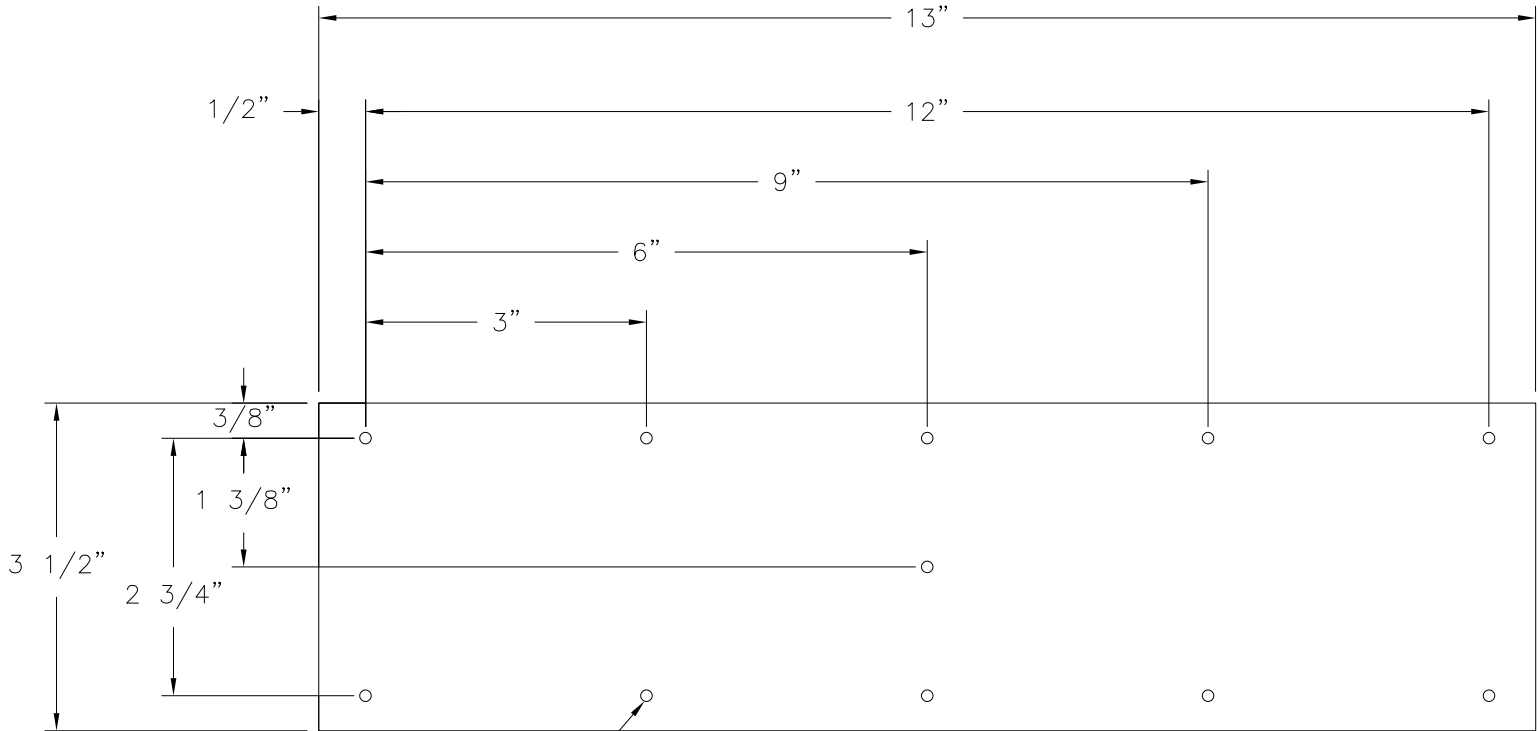
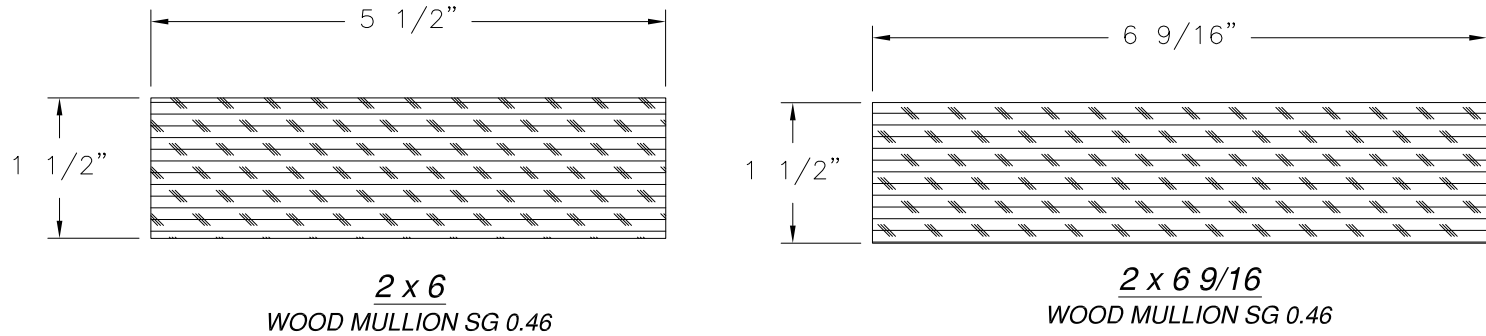
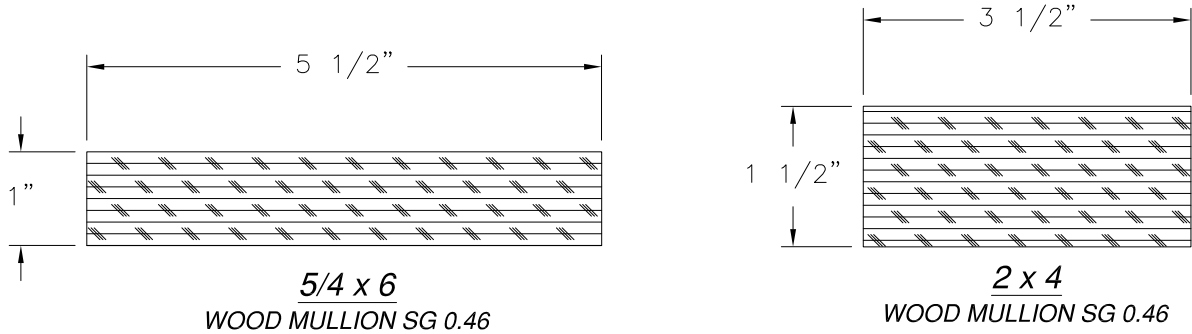
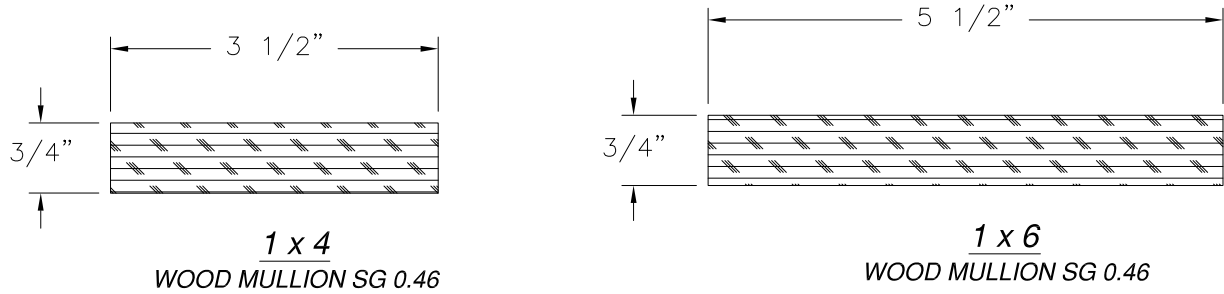
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



0.25x11
INSTALLATION PLATE
 GALVANIZED STEEL .058 THICK

THE MUHLER COMPANY
 630 SKYLARK DRIVE, SUITE U
 NORTH CHARLESTON, SC 29407

WOOD HORIZONTAL
 MULLIONS
 COMPONENTS

DRAWN:
 A.R.

DWG NO.
 08-03152

SCALE NTS

DATE 08/14/17

SHEET 13 OF 13

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 434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/15/2017



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