

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, METAL FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
4. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT PRODUCT IN WIND BORNE DEBRIS REGIONS, UP TO WIND ZONE 3.
5. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO THE MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
6. SINGLE UNITS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. SINGLE UNITS TO BE MULLED TOGETHER MUST BE MANUFACTURED BY STERGIS WINDOWS AND DOORS.
7. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT.
8. TWIN CONFIGURATION SHOWN. UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND SINGLE UNIT HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.

Mullion rating chart
1x3 3/8 Structural Tubing with bull nose clip 1x3 3/8

Mullion span (in)	Tributary width (in)								
	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00
24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48.00	100.0	99.0	90.7	86.4	85.0	85.0	85.0	85.0	85.0
54.00	97.2	83.7	75.6	70.7	68.0	67.2	67.2	67.2	67.2
60.00	85.0	72.6	64.8	59.8	56.7	55.0	54.4	54.4	54.4
66.00	75.6	64.0	56.7	51.8	48.6	46.5	45.4	45.0	45.0
72.00	68.0	57.3	50.4	45.7	42.5	40.3	38.9	38.1	37.8
78.00	61.8	51.8	45.4	40.9	37.8	35.6	34.0	33.0	32.4
84.00	56.7	47.3	41.2	37.0	34.0	31.8	30.2	29.1	28.3

LARGE AND SMALL MISSILE 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.

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

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATION, NOTES AND DESIGN PRESSURE CHARTS
2	INSTALLATION DETAILS AND B.OM.
3	COMPONENTS

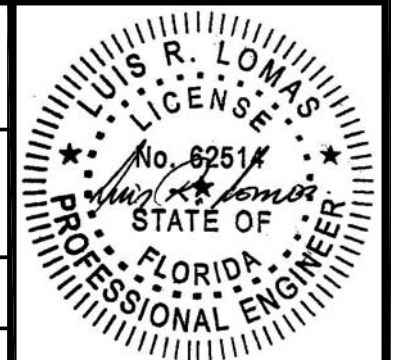
STERGIS WINDOW & DOORS
 79 WALTON STREET
 ATTLEBORO, MA 02703

1 X 3 3/8 VERTICAL STRUCTURAL TUBING MULLION
 LMI & SMI
 ELEVATIONS, NOTES AND DESIGN PRESSURE CHART

DRAWN: R.L.	DWG NO. 08-03873	REV -
SCALE NTS	DATE 01/24/23	SHEET 1 OF 3

L. ROBERTO LOMAS P.E.
 400 S. PALM AVE, INDIALANTIC, FL 32903
 434-688-0609 rllomas@rlomaspe.com

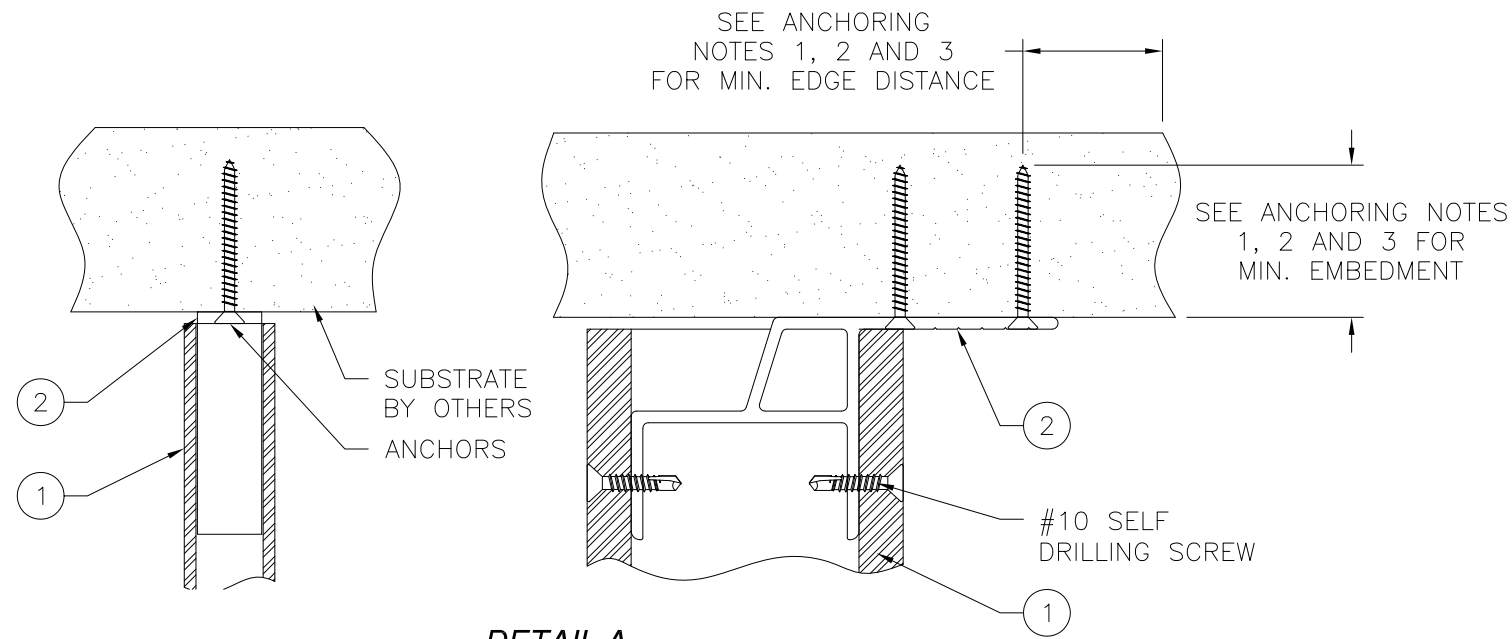
SIGNED: 01/24/2023



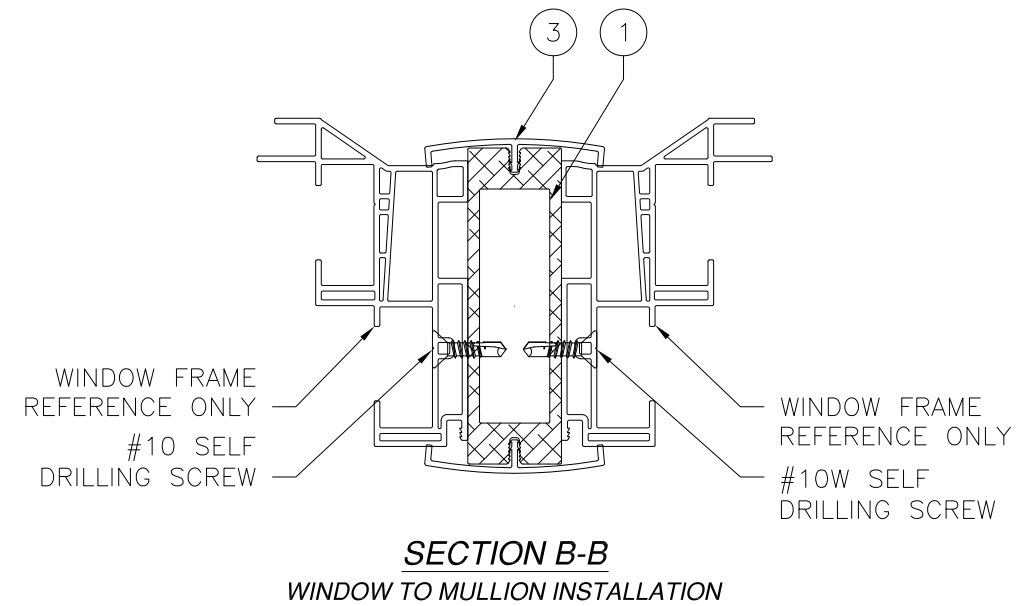
Luis R. Lomas P.E.
 FL No.: 62514

PARTS LIST		
NO.	PART NUMBER	DESCRIPTION
1		1X3 3/8 STRUCTURAL TUBING MULLION 6063-T6
2		BULL NOSE CLIP 1X3, ALUMINUM 6063-T6
3	AM72	COVER, PVC

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DETAIL A
TOP AND BOTTOM CLIP INSTALLATION



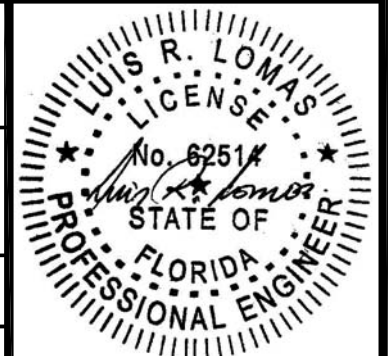
SECTION B-B
WINDOW TO MULLION INSTALLATION

ANCHORING NOTES:

- FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE AND 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 1/2" MINIMUM EDGE DISTANCE AND 1 1/2" MINIMUM SPACING BETWEEN ANCHORS. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL AND 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ATTACHING WINDOW UNITS TO MULLION USE #10 SELF TAPPING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF 3 THREADS PAST THE MULLION WALL. LOCATE SCREWS 6" FROM EACH MULLION END AND 8" MAX O.C. THEREAFTER STAGGER SCREWS AT EACH WINDOW.
- FOR WINDOW UNITS ANCHORING SCHEDULE REFER TO WINDOW APPROVED INSTALLATION INSTRUCTIONS
- ALL FASTENERS TO BE CORROSION RESISTANT.
- 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:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - MASONRY GROUT FILLED - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

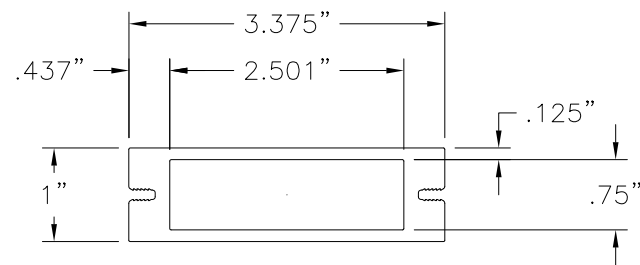
SIGNED: 01/24/2023

STERGIS WINDOW & DOORS 79 WALTON STREET ATTLEBORO, MA 02703		
1 X 3 3/8 VERTICAL STRUCTURAL TUBING MULLION LMI & SMI INSTALLATION DETAILS AND B.O.M.		
DRAWN: R.L.	DWG NO. 08-03873	REV -
SCALE NTS	DATE 01/24/23	SHEET 2 OF 3
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

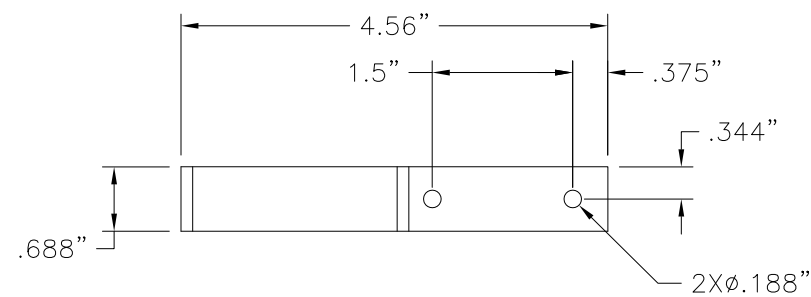


Luis R. Lomas P.E.
FL No.: 62514

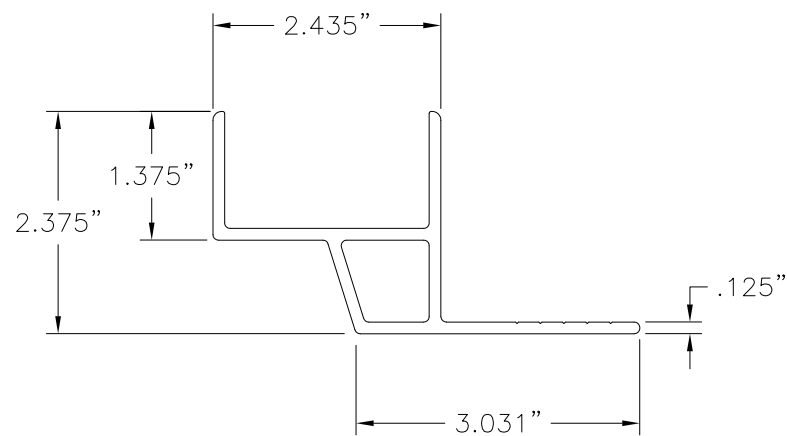
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



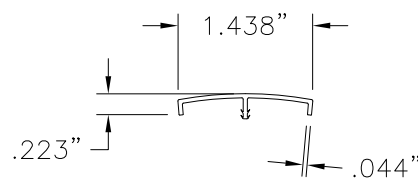
① **1X3 3/8 STRUCTURAL TUBING MULLION**
6063-T6 ALUMINUM



② **BULL NOSE CLIP (1X3 3/8)**
6063-T6 ALUMINUM



③ **COVER**
PVC



SIGNED: 01/24/2023

STERGIS WINDOW & DOORS

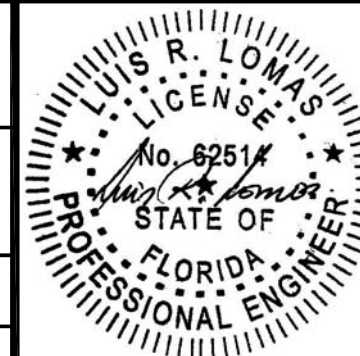
79 WALTON STREET
ATTLEBORO, MA 02703

1 X 3 3/8 VERTICAL STRUCTURAL TUBING MULLION
LMI & SMI
COMPONENTS

DRAWN: R.L. DWG NO. 08-03873 REV -

SCALE NTS DATE 01/24/23 SHEET 3 OF 3

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@rlomaspe.com



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