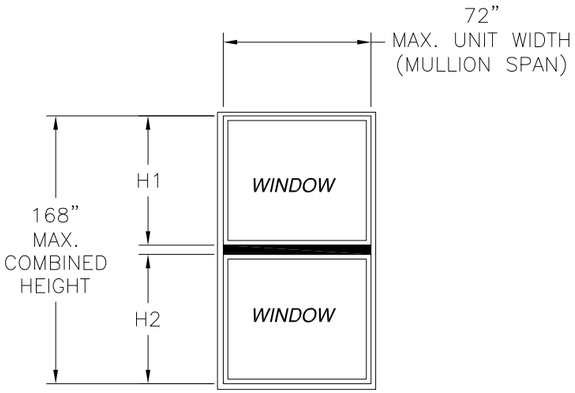


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

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 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. VERTICAL MULLIONS ARE NOT PART OF THIS APPROVAL. VERTICAL MULLIONS USED TO MULL UNITS SIDE BY SIDE MUST HAVE SEPARATE APPROVAL.
9. FOR ADDITIONAL APPROVED CONFIGURATIONS SEE SHEET 2.

Mullion rating chart, Single with transom (psf)
1 x 3-3/8 Horizontal mullion with bull nose clip

		Unit width (in)								
		24.0	***30.0***	***36.0***	***42.0***	***48.0***	***54.0***	***60.0***	***66.0***	***72.0***
Tributary Height	***24.0***	120.0	120.0	120.0	120.0	113.4	97.2	85.0	75.6	68.0
	30.0	120.0	120.0	120.0	120.0	99.0	83.7	72.6	64.0	57.3
	36.0	120.0	120.0	120.0	113.4	90.7	75.6	64.8	56.7	50.4
	42.0	120.0	120.0	120.0	111.1	86.4	70.7	59.8	51.8	45.7
	48.0	120.0	120.0	120.0	111.1	85.0	68.0	56.7	48.6	42.5
	54.0	120.0	120.0	120.0	111.1	85.0	67.2	55.0	46.5	40.3
	60.0	120.0	120.0	120.0	111.1	85.0	67.2	54.4	45.4	38.9
	66.0	120.0	120.0	120.0	111.1	85.0	67.2	54.4	45.0	38.1
	72.0	120.0	120.0	120.0	111.1	85.0	67.2	54.4	45.0	37.8
	78.0	120.0	120.0	120.0	111.1	85.0	67.2	54.4	45.0	37.8
	84.0	120.0	120.0	120.0	111.1	85.0	67.2	54.4	45.0	37.8

Design pressures are positive and negative
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 HEIGHT AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY HEIGHT.
3. LOCATE MULLION SPAN (UNIT WIDTH) AND TRIBUTARY HEIGHT. AT THE INTERSECTION OF COLUMN AND ROW CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

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

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

SIGNED: 01/24/2023

STERGIS WINDOW & DOORS
79 WALTON STREET
ATTLEBORO, MA 02703

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

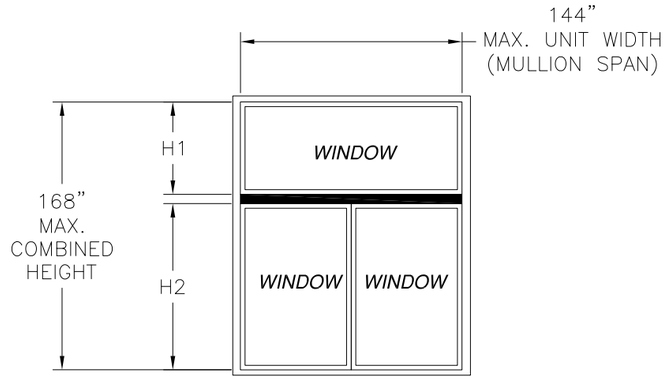
DRAWN:	DWG NO.	REV
R.L.	08–03874	–
SCALE NTS	DATE 01/24/23	SHEET 3 OF 4

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

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

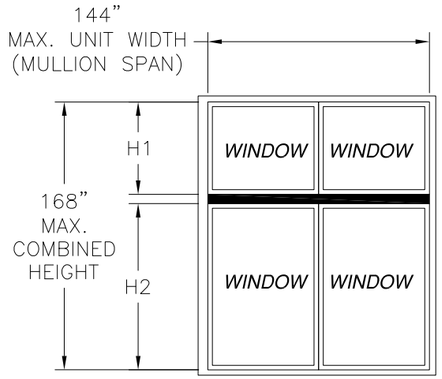
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



Mullion rating chart, Twin with transom (psf)
1 x 3-3/8 Horizontal mullion with bull nose clip

Tributary Height	Single Window width and Total Unit width (in)								
	24.00	**30.00**	**36.00**	**42.00**	**48.00**	**54.00**	**60.00**	**66.00**	**72.00**
	48.00	**60.00**	**72.00**	**84.00**	**96.00**	**108.00**	**120.00**	**132.00**	**144.00**
24.00	113.4	85.0	68.0	56.7	48.6	42.5	34.3	25.6	19.6
30.00	98.1	72.6	57.3	47.3	40.3	35.1	28.0	20.8	15.9
36.00	87.8	64.4	50.4	41.2	34.9	30.2	23.8	17.7	-
42.00	80.6	58.5	45.5	37.0	31.1	26.8	20.8	15.4	-
48.00	75.6	54.2	41.9	33.9	28.3	24.3	18.5	-	-
54.00	72.1	50.9	39.0	31.5	26.2	22.4	16.8	-	-
60.00	69.8	48.4	36.8	29.5	24.5	20.9	15.5	-	-
66.00	68.5	46.5	35.0	27.9	23.1	19.6	-	-	-
72.00	68.0	45.2	33.6	26.6	21.9	18.6	-	-	-
78.00	68.5	44.2	32.5	25.6	21.0	17.7	-	-	-
84.00	69.8	43.7	31.6	24.7	20.2	17.0	-	-	-

Design pressures are positive and negative
Large and Small Missile Impact rated, up to Wind Zone 3



Mullion rating chart, Twin with Twin transom (psf)
1 x 3-3/8 Horizontal mullion with bull nose clip

Tributary Height	Single Unit width and Total Unit width (in)								
	24.0	***30.0***	***36.0***	***42.0***	***48.0***	***54.0***	***60.0***	***66.0***	***72.0***
	48.0	***60.0***	***72.0***	***84.0***	***96.0***	***108.0***	***120.0***	***132.0***	***144.0***
24.0	113.4	85.0	68.0	56.7	48.6	42.5	33.2	24.9	19.1
30.0	97.2	72.6	57.3	47.3	40.3	35.1	26.9	20.1	15.4
36.0	85.0	64.0	50.4	41.2	34.9	30.2	22.6	16.9	-
42.0	75.6	57.3	45.4	37.0	31.1	26.8	19.6	-	-
48.0	68.0	51.8	41.2	33.8	28.3	24.0	17.3	-	-
54.0	61.8	47.3	37.8	31.1	26.2	21.6	15.6	-	-
60.0	56.7	43.5	34.9	28.8	24.3	19.7	-	-	-
66.0	52.3	40.3	32.4	26.8	22.7	18.0	-	-	-
72.0	48.6	37.5	30.2	25.1	21.3	16.7	-	-	-
78.0	45.4	35.1	28.3	23.6	20.0	15.5	-	-	-
84.0	42.5	33.0	26.7	22.2	18.9	-	-	-	-

Design pressures are positive and negative
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 HEIGHT.
3. LOCATE MULLION SPAN (UNIT WIDTH) AND TRIBUTARY HEIGHT. AT THE INTERSECTION OF COLUMN AND ROW CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

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

SIGNED: 01/24/2023

STERGIS WINDOW & DOORS
79 WALTON STREET
ATTLEBORO, MA 02703

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

DRAWN:	DWG NO.	REV
R.L.	08–03874	–
SCALE NTS	DATE 01/24/23	SHEET 3 OF 4

L. ROBERTO LOMAS P.E.
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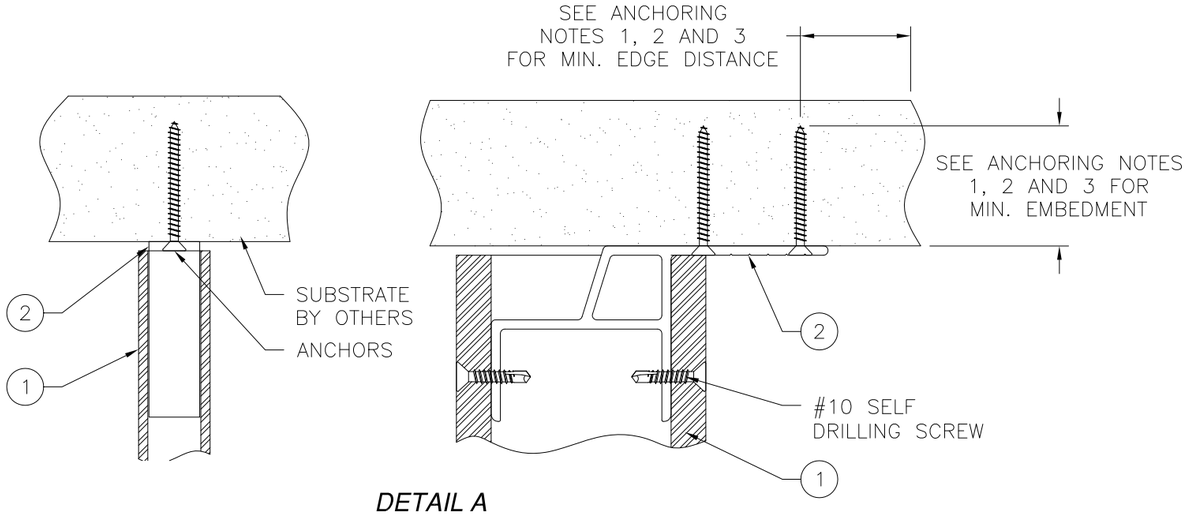
LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

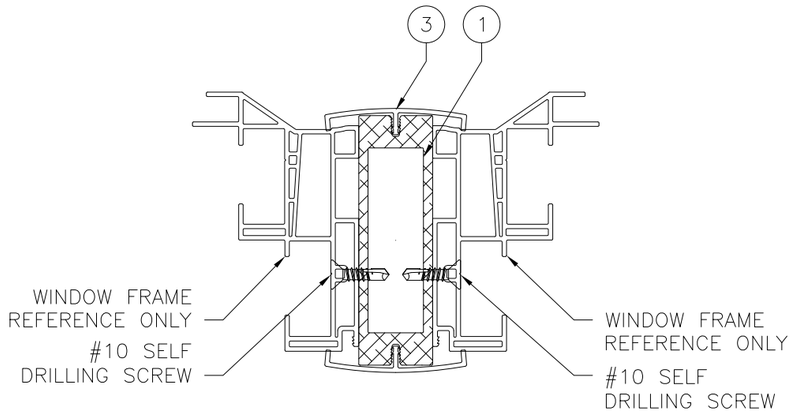
PARTS LIST		
NO.	PART NUMBER	DESCRIPTION
1		1X3 3/8 STRUCTURAL TUBING MULLION 6063–T6
2		BULL NOSE CLIP 1X3, ALUMINUM 6063–T6
3	AM72	COVER, PVC

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DETAIL A

CLIP INSTALLATION AT EACH END OF MULLION



SECTION B-B

WINDOW TO MULLION INSTALLATION

ANCHORING NOTES:

1. 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.
2. 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.
3. 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 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
4. FOR ATTACHING WINDOW UNITS TO MULLION USE #10 SELF TAPPING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF 3 THREADS PAST THE MULLION WALL. LOCATE SCREWS 6" FROM EACH MULLION END AND 8" MAX O.C. THEREAFTER STAGGER SCREWS AT EACH WINDOW.
5. FOR WINDOW UNITS ANCHORING SCHEDULE REFER TO WINDOW APPROVED INSTALLATON INSTRUCTIONS.
6. ALL FASTENERS TO BE CORROSION RESISTANT.
7. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
   - 7.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
   - 7.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
   - 7.3. MASONRY GROUT FILLED – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).
   - 7.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 1/8" THICK MINIMUM

SIGNED: 01/24/2023

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

DRAWN:	DWG NO.	REV
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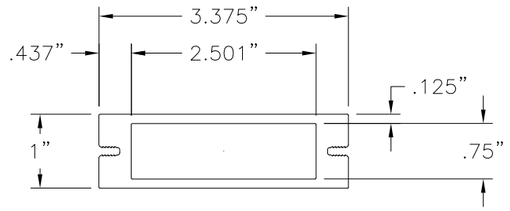
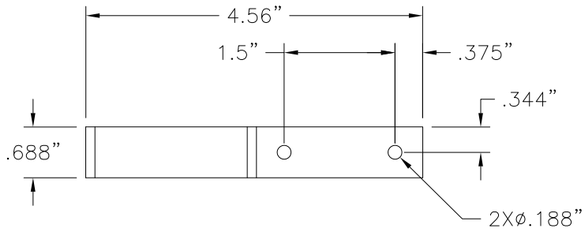
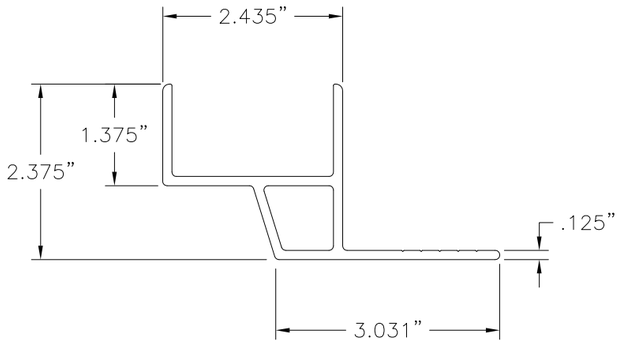
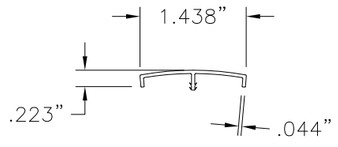


1 **1X3 3/8 STRUCTURAL TUBING MULLION**
6063-T6 ALUMINUM





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



3 **COVER**
PVC

SIGNED: 01/24/2023

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

DRAWN:	DWG NO.	REV
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