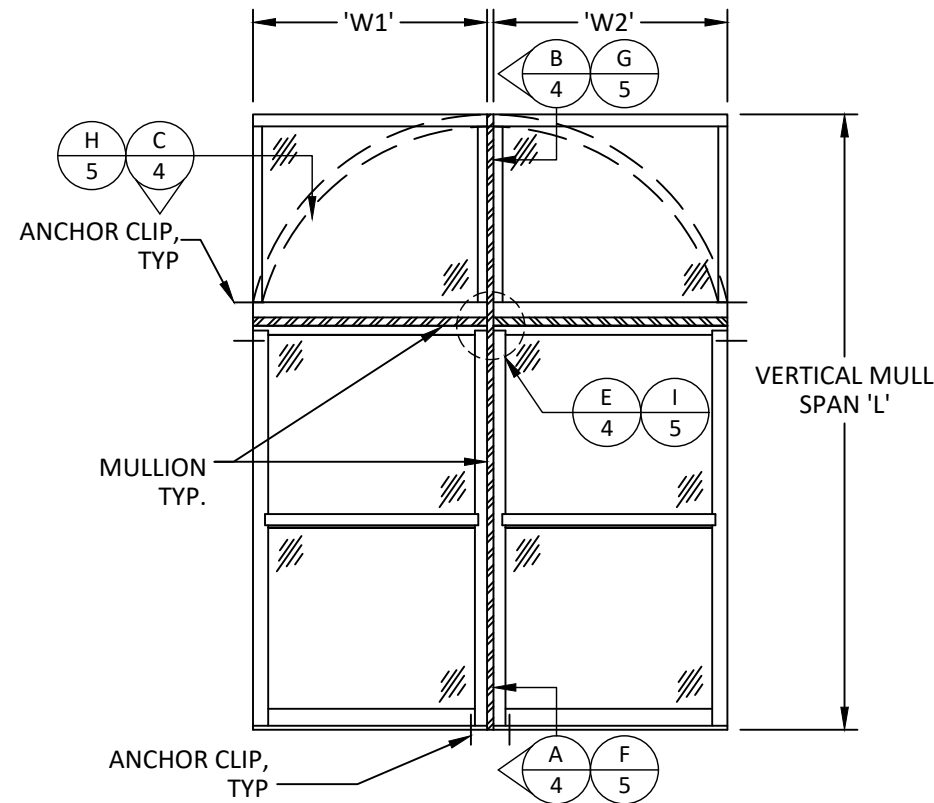


EASTERN ARCHITECTURAL SYSTEMS

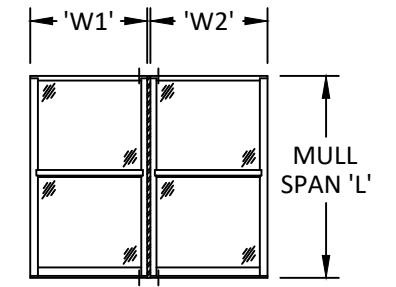
HVHZ CLIPPED ALUMINUM TUBE MULLIONS

GENERAL NOTES:

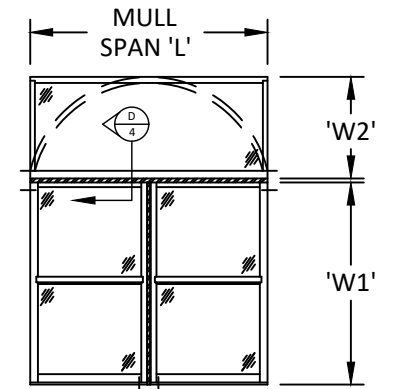
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, **INCLUDING** THE HIGH VELOCITY HURRICANE ZONE.
3. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS. INDIVIDUAL UNITS ATTACHED TO MULLIONS MUST BE IMPACT RATED.
4. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
5. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
6. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE RER.
7. MULLION & CLIP MATERIAL: ALUMINUM 6005-T5 & 6063-T6 (AS NOTED)
8. MULLIONS MAY BE USED WITH ANY APPROVED FENESTRATION PRODUCT, UNDER SEPARATE APPROVAL.
9. SEE SHEETS 7-12 FOR INSTALLATION ANCHOR REQUIREMENTS FOR SPECIFIC ANCHORING REQUIREMENTS, MULLION CONFIGURATIONS, AND DESIGN LOAD CAPACITIES.
10. DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE CURRENT FLORIDA BUILDING CODE.



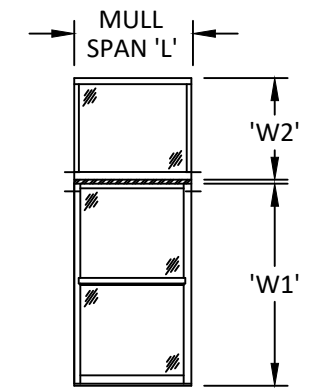
TYPICAL MULLION ASSEMBLY



VERTICAL SPAN



HORIZONTAL "T" MULL SPAN

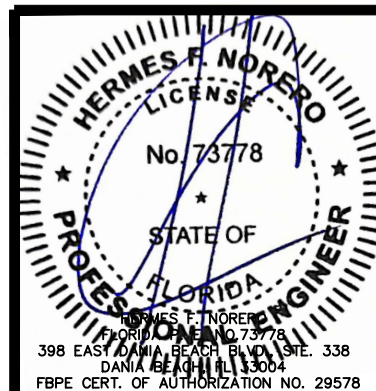


HORIZONTAL SPAN

INSTRUCTIONS:

1. DETERMINE REQUIRED DESIGN PRESSURE FOR OPENING.
2. CHOOSE A MULLION THAT PROPERLY FITS THE FENESTRATION PRODUCT.
3. DETERMINE WHETHER ASSEMBLY REQUIRES ONE-WAY OR TWO-WAY MULLIONS:
 - ASSEMBLIES CONSISTING OF STACKED OR SIDE-BY-SIDE UNITS REQUIRE USE OF ONE-WAY MULLIONS.
 - ASSEMBLIES CONSISTING OF MULTIPLE UNITS MULLED TOGETHER WITH MULTIPLE MULLIONS REQUIRE USE OF TWO-WAY MULLIONS.
 - SEE SHEET 13 FOR ASSEMBLY AND LOAD EXAMPLES.
 - IF ASSEMBLY TYPE CANNOT BE DETERMINED USE TWO-WAY MULLION CHART.
4. VERIFY THAT MULLION DESIGN PRESSURE MEETS OR EXCEEDS REQUIRED DESIGN PRESSURE OF OPENING USING CHARTS ON SHEETS 7-12.
5. QUALIFIED CLIP TYPES APPEAR ON SHEETS 7-12. MULTIPLE ANCHOR TYPE/SUBSTRATE/CLIP COMBINATIONS WITHIN AN OPENING ARE ALLOWED.
6. THE LESSER DESIGN PRESSURE OR MULLION OR FENESTRATION PRODUCT WILL GOVERN OVERALL ASSEMBLY DESIGN PRESSURE RATING.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES, INSTRUCTIONS, AND ELEVATIONS
2	MULLION CROSS SECTIONS
3	ANCHOR CLIP DETAILS
4	MULLION SECTIONS
5	MULLION SECTIONS
6	TYPICAL MULLION & CLIP ASSEMBLIES
7	1" X 3-1/8" (LIGHT) MULLION DESIGN LOAD TABLES
8	1-1/4" X 3" MULLION DESIGN LOAD TABLES
9	1" X 3-1/8" (HEAVY) MULLION DESIGN LOAD TABLES
10	1" X 4" MULLION DESIGN LOAD TABLES
11	2" X 4" MULLION DESIGN LOAD TABLES
12	2" X 6" MULLION DESIGN LOAD TABLES
13	MULLION ASSEMBLY AND LOAD EXAMPLES



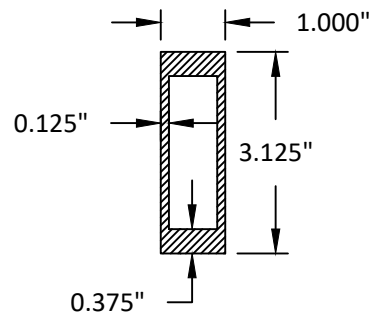
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SH	DATE	DESCRIPTION	REV
SH	9/7/23	MISC. UPDATES	3
SM	5/25/21	FBC UPDATE	2
SM	2/6/18	6TH ED. FBC UPDATES	1
BY	DATE	DESCRIPTION	REV

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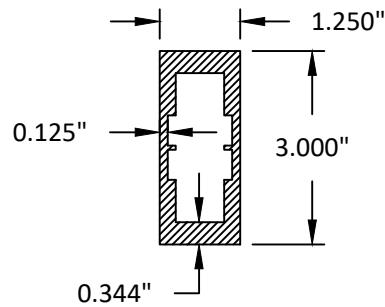
TITLE: HVHZ CLIPPED ALUMINUM TUBE MULLIONS
VERTICAL AND HORIZONTAL CONFIGURATIONS
GENERAL AND INSTALLATION ELEVATIONS

DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	<p>BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578</p>
SHEET: 1 OF 13	REV: -	



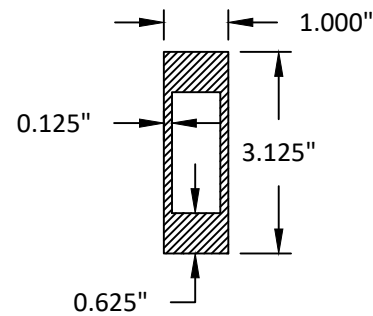
**1" X 3-1/8" (LIGHT)
MULLION**

SEE SHEET 7 FOR
QUALIFIED CLIPS



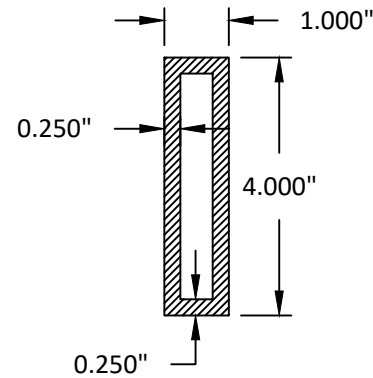
**1-1/4" X 3"
MULLION**

SEE SHEET 8 FOR
QUALIFIED CLIPS



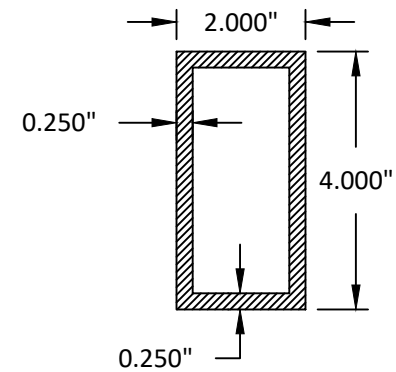
**1" X 3-1/8" (HEAVY)
MULLION**

SEE SHEET 9 FOR
QUALIFIED CLIPS



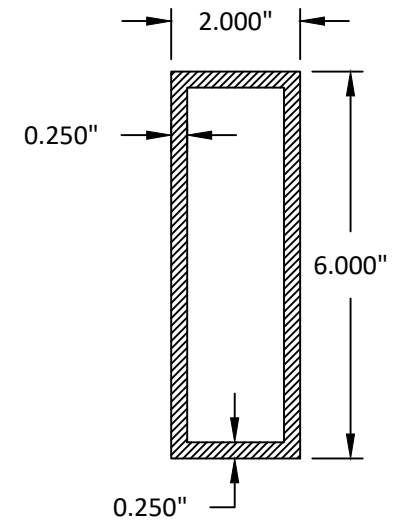
**1" X 4"
MULLION**

SEE SHEET 10 FOR
QUALIFIED CLIPS



**2" X 4"
MULLION**

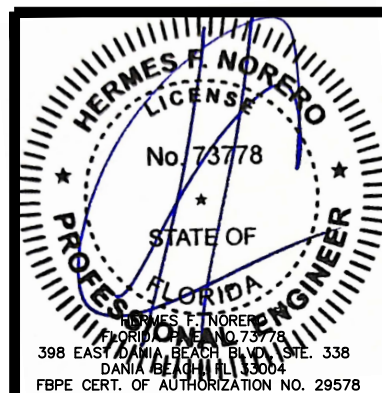
SEE SHEET 11 FOR
QUALIFIED CLIPS




**2" X 6"
MULLION**

SEE SHEET 12 FOR
QUALIFIED CLIPS

NOTE: SEE SHEET 3 FOR SPECIFIC CLIP
TYPES AND DIMENSIONS.




REVISIONS			
BY	DATE	DESCRIPTION	REV

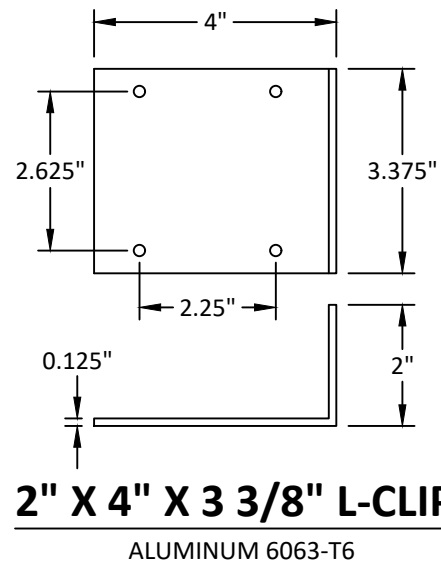


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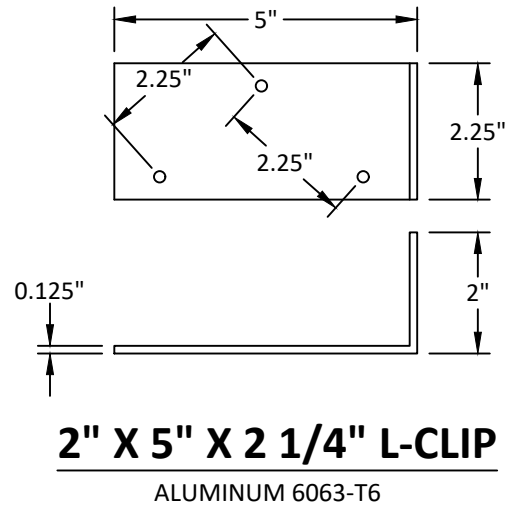
EASTERN ARCHITECTURAL SYSTEMS
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TITLE: HVHZ CLIPPED ALUMINUM TUBE MULLIONS
VERTICAL AND HORIZONTAL CONFIGURATIONS
MULLION CROSS SECTIONS

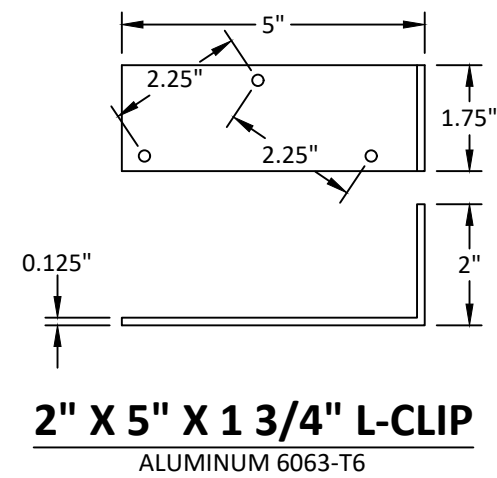
DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	 BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578
SHEET: 2 OF 13	REV: -	



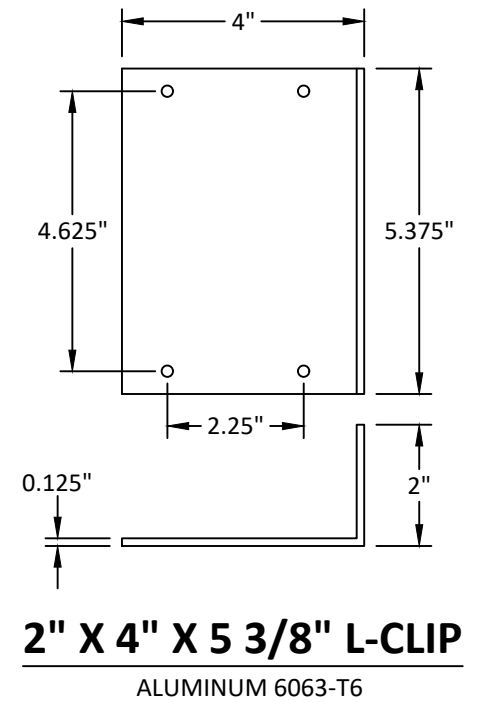
2" X 4" X 3 3/8" L-CLIP
ALUMINUM 6063-T6



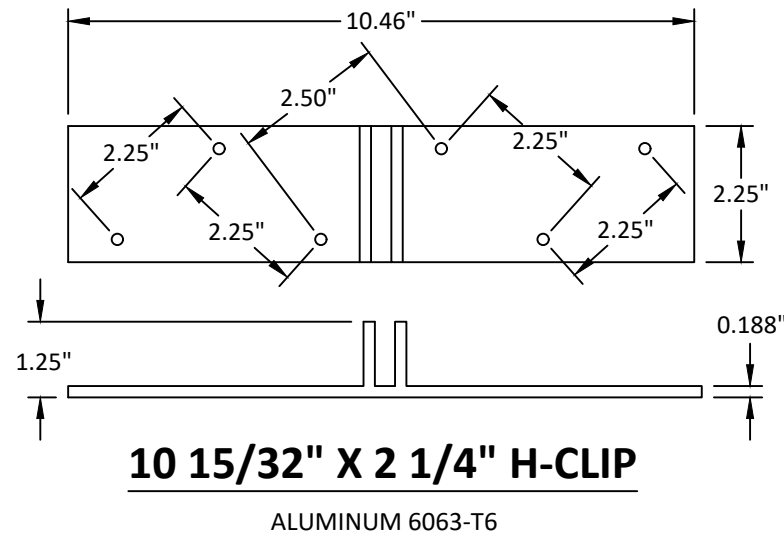
2" X 5" X 2 1/4" L-CLIP
ALUMINUM 6063-T6



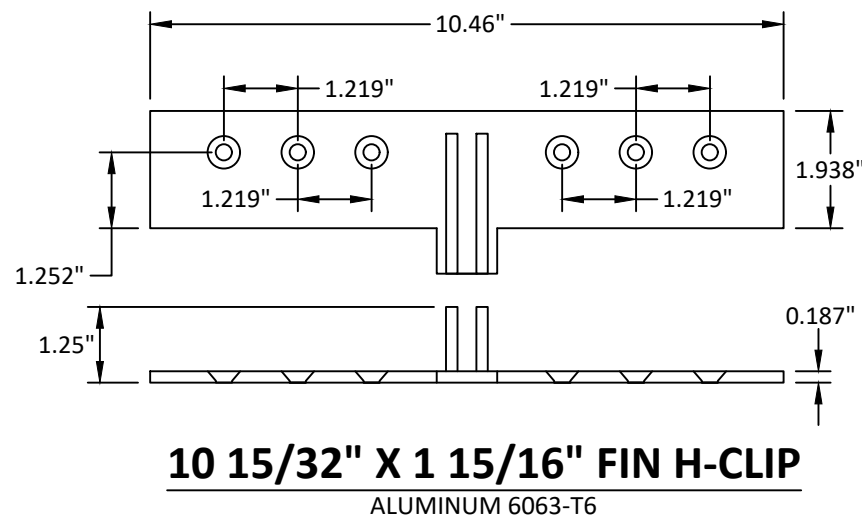
2" X 5" X 1 3/4" L-CLIP
ALUMINUM 6063-T6



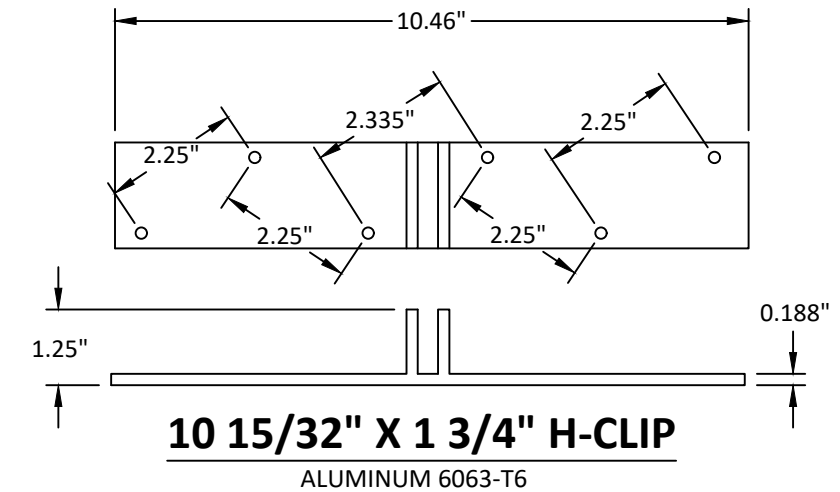
2" X 4" X 5 3/8" L-CLIP
ALUMINUM 6063-T6



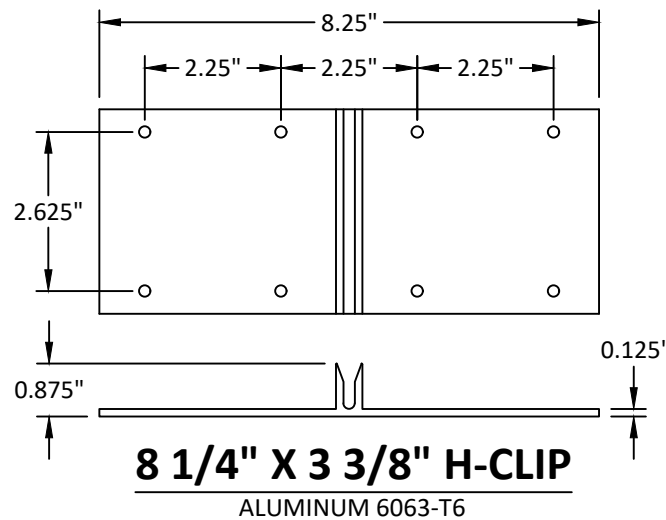
10 15/32" X 2 1/4" H-CLIP
ALUMINUM 6063-T6



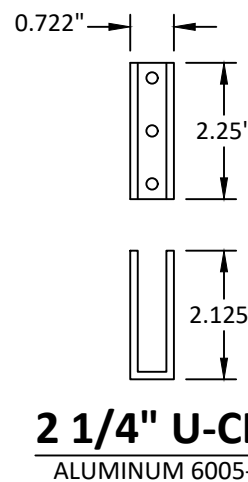
10 15/32" X 1 15/16" FIN H-CLIP
ALUMINUM 6063-T6



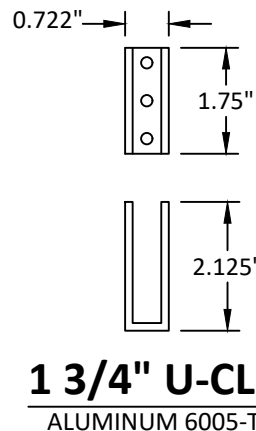
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ALUMINUM 6063-T6



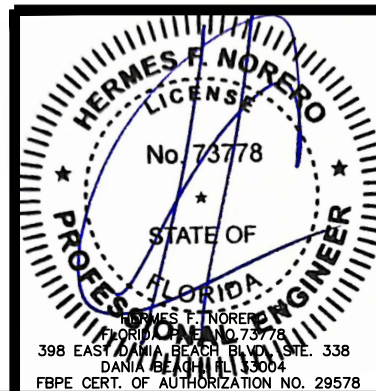
8 1/4" X 3 3/8" H-CLIP
ALUMINUM 6063-T6



2 1/4" U-CLIP
ALUMINUM 6005-T5



1 3/4" U-CLIP
ALUMINUM 6005-T5




REVISIONS			
BY	DATE	DESCRIPTION	REV

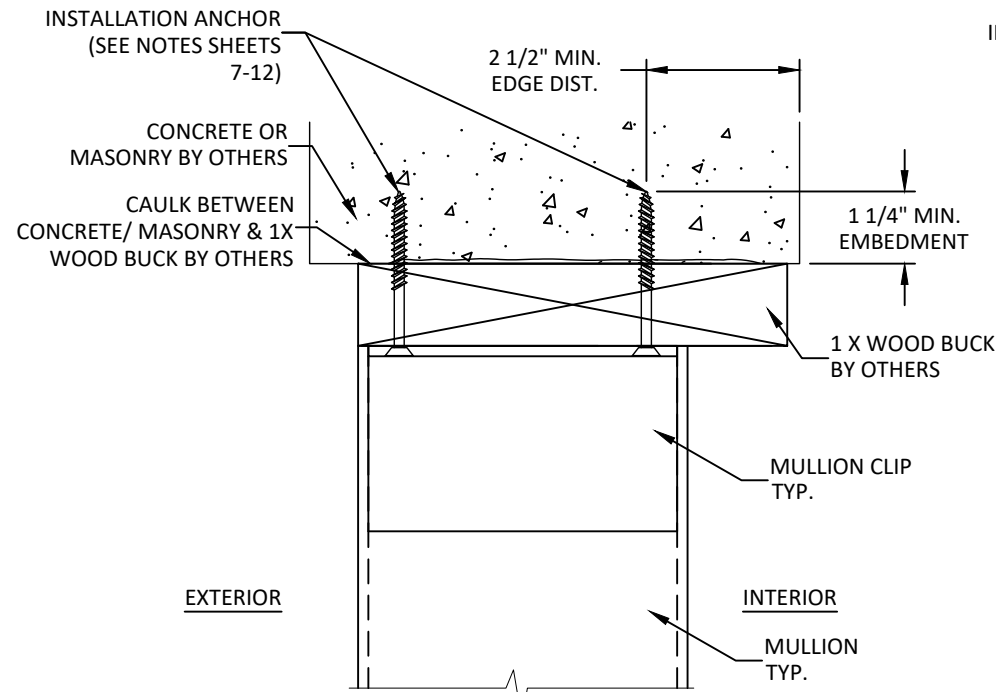


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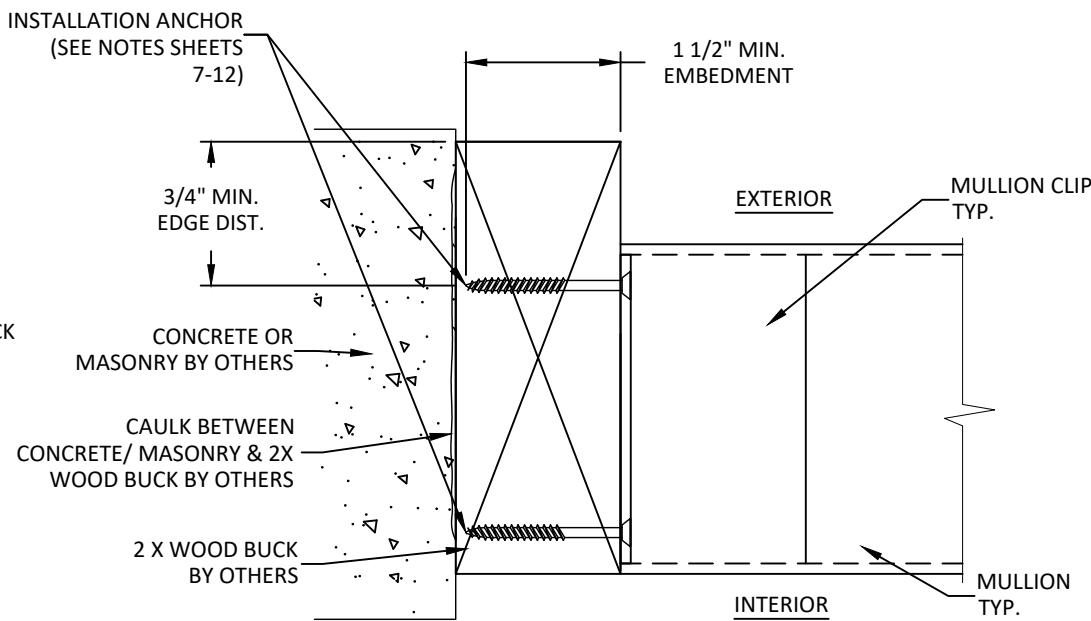
EASTERN ARCHITECTURAL SYSTEMS
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16341 DOMESTIC AVE.
FT MYERS, FL 33912
1-877-401-2190

TITLE: **HVHZ CLIPPED ALUMINUM TUBE MULLIONS
VERTICAL AND HORIZONTAL CONFIGURATIONS
CLIP DETAILS**

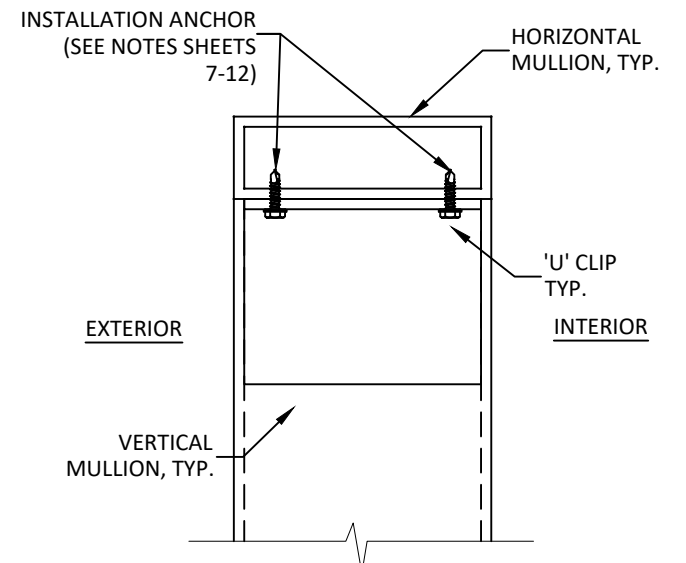
DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	 <p>BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578</p>
SHEET: 3 OF 13	REV: -	



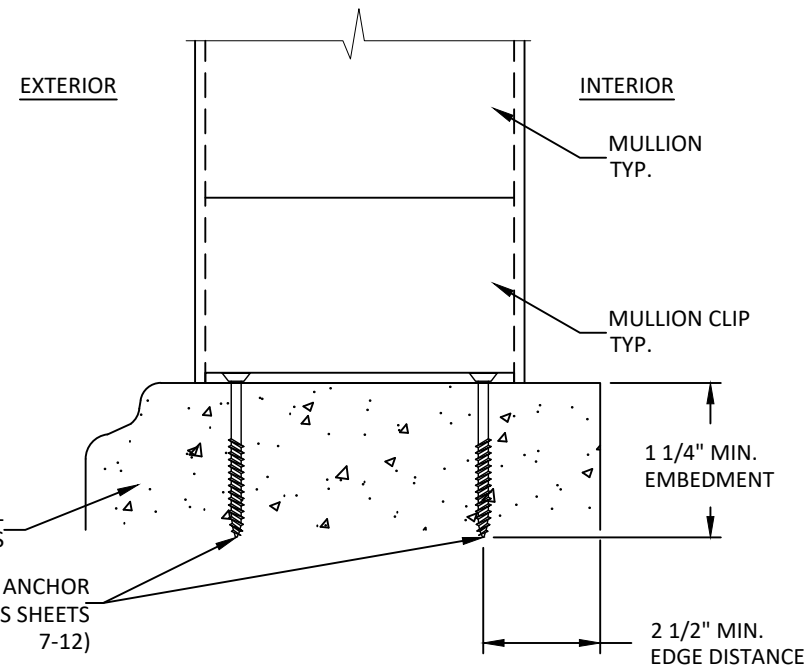
B
4 **VERTICAL SECTION**
HEAD - CONCRETE/MASONRY
SIDE VIEW-VERTICAL



C
4 **HORIZONTAL SECTION**
JAMB - 2X WOOD BUCK
SIDE VIEW-HORIZONTAL

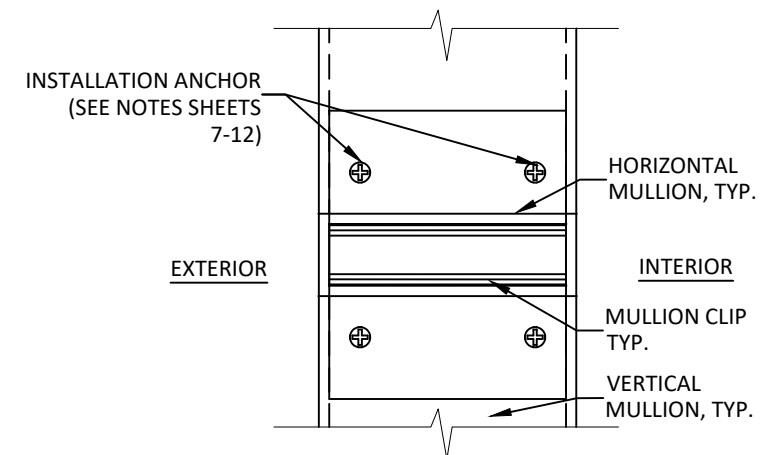


D
4 **HORIZONTAL SECTION**
T-MULLION INTERSECT DETAIL
SIDE VIEW

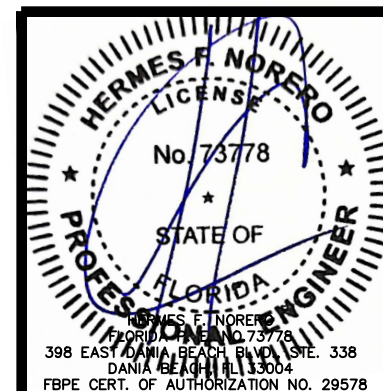


A
4 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
SIDE VIEW-VERTICAL


NOTE
DETAILS SHOWN ARE TYPICAL FOR ALL MULLION & CLIP ASSEMBLIES. SEE SHEETS 7-12 FOR ALLOWABLE MULLION CONFIGURATIONS, SIZES, AND DESIGN PRESSURES.



E
4 **HORIZONTAL SECTION**
X-MULLION INTERSECT DETAIL
SIDE VIEW




REVISIONS			
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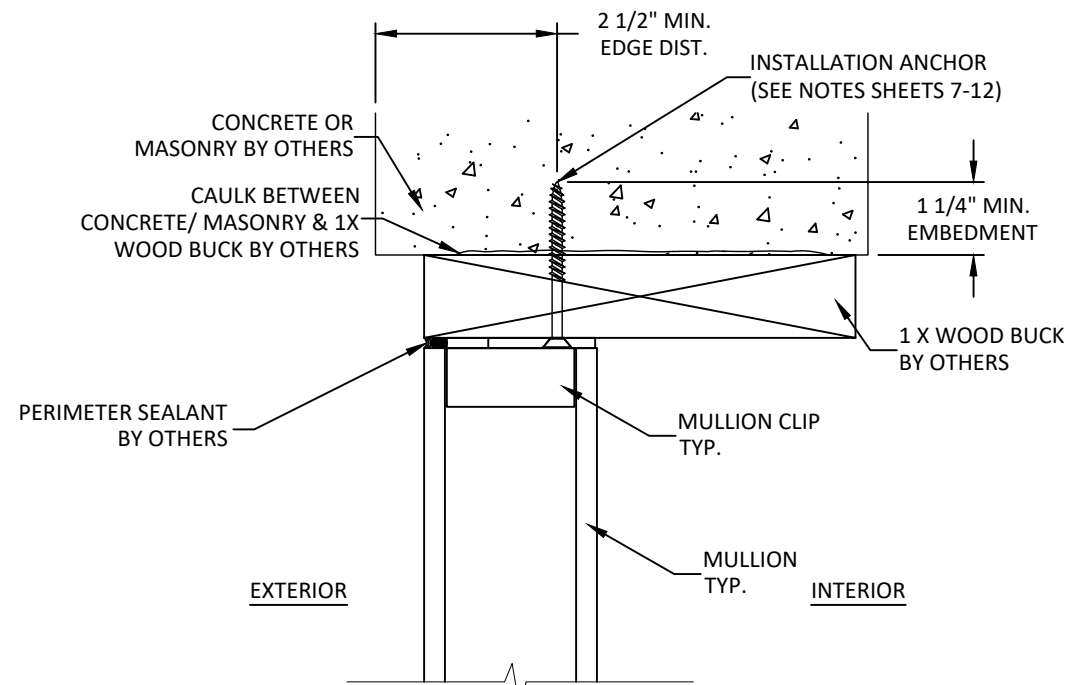


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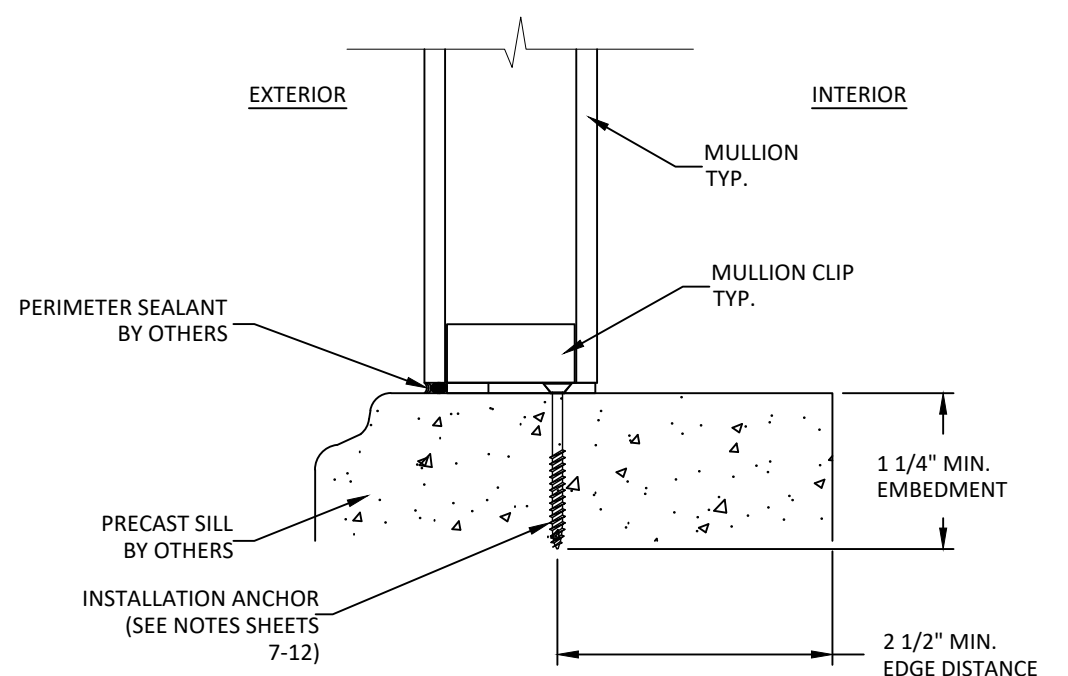
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FT MYERS, FL 33912
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TITLE: HVHZ CLIPPED ALUMINUM TUBE MULLIONS
VERTICAL AND HORIZONTAL CONFIGURATIONS
INSTALLATION DETAILS

DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	 <p>BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578</p>
SHEET: 4 OF 13	REV: -	

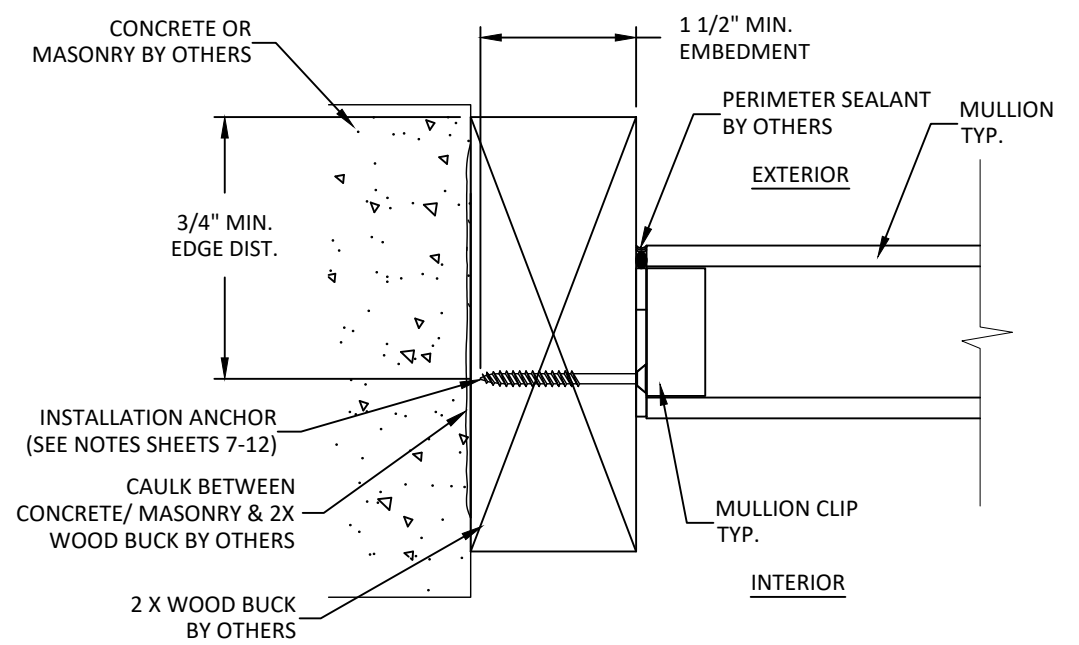


G
5 **VERTICAL SECTION**
HEAD - CONCRETE/MASONRY
SIDE VIEW-VERTICAL

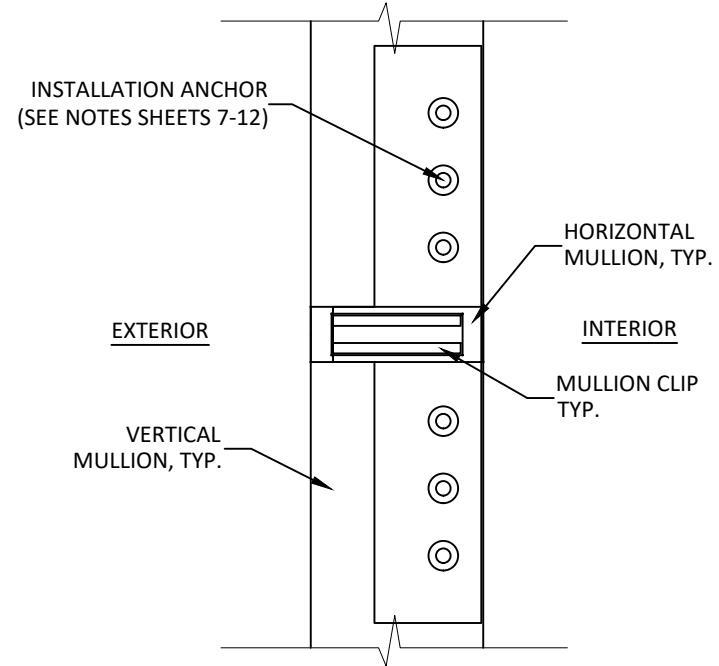


F
5 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
SIDE VIEW-VERTICAL

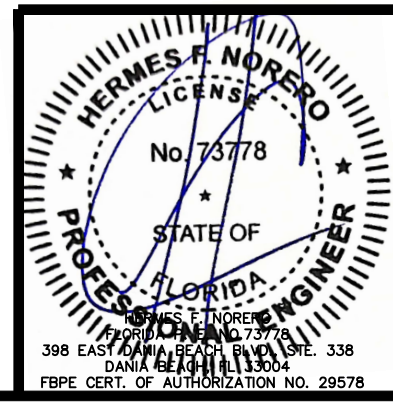
NOTE
DETAILS SHOWN ARE TYPICAL FOR MULLIONS ON SHEETS 7 & 8. SEE SHEETS 7 & 8 FOR ALLOWABLE MULLION CONFIGURATIONS, SIZES, AND DESIGN PRESSURES.




H
5 **HORIZONTAL SECTION**
JAMB - 2X WOOD BUCK
SIDE VIEW-HORIZONTAL



I
5 **HORIZONTAL SECTION**
X-MULLION INTERSECT DETAIL
SIDE VIEW




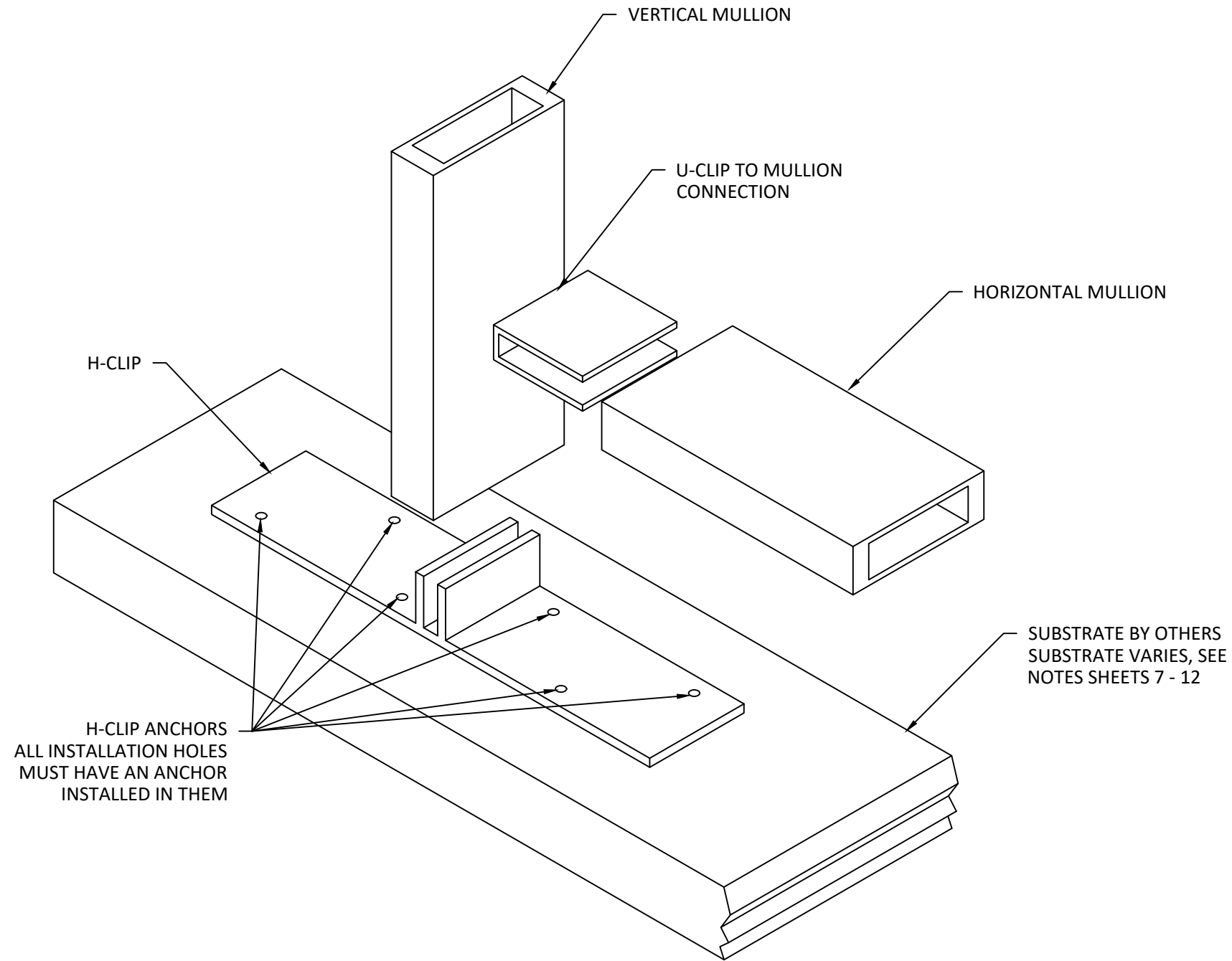
REVISIONS			
BY	DATE	DESCRIPTION	REV



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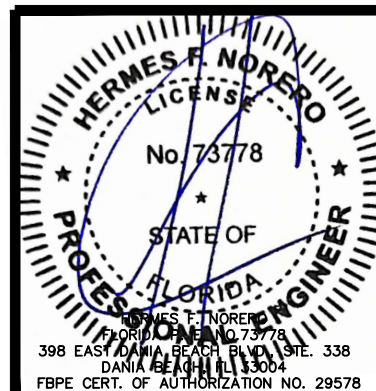
TITLE: HVHZ CLIPPED ALUMINUM TUBE MULLIONS
VERTICAL AND HORIZONTAL CONFIGURATIONS
INSTALLATION DETAILS

DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	 BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578
SHEET: 5 OF 13	REV: -	



MULLION AND CLIP ASSEMBLY

TYPICAL ASSEMBLY SHOWN WITH 1" x 3 1/8" MULLION AND H-CLIP. OTHER MULLIONS AND CLIPS ARE APPROVED. SEE INDIVIDUAL MULLION SHEETS




REVISIONS			
BY	DATE	DESCRIPTION	REV



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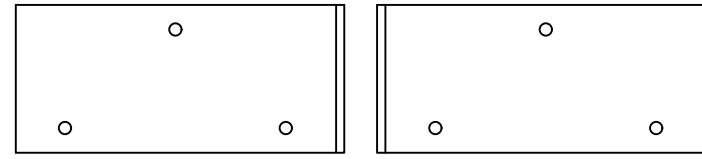
TITLE: HVHZ CLIPPED ALUMINUM TUBE MULLIONS
VERTICAL AND HORIZONTAL CONFIGURATIONS
MULLION AND CLIP ASSEMBLY DETAILS

DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	 BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578
SHEET: 6 OF 13	REV: -	

DESIGN PRESSURE LIMITS FOR MULLION: 1" x 3-1/8" (LIGHT) - ONE-WAY MULLIONS									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72	90.0	90.0	90.0	87.3	77.7	71.1	67.2	66.7	63.8
84	90.0	76.9	62.7	53.5	47.1	42.6	39.7	39.3	36.9
96	67.4	51.1	41.5	35.2	30.8	27.6	25.6	25.2	23.5
108	47.2	35.7	28.9	24.4	21.3	19.0	17.5	17.2	15.9

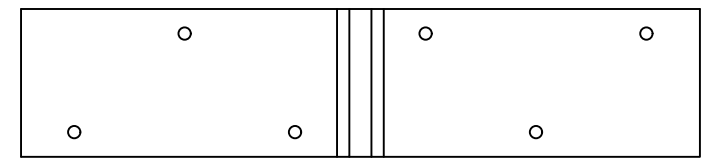
DESIGN PRESSURE LIMITS FOR MULLION: 1" x 3-1/8" (LIGHT) - TWO-WAY MULLIONS									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	89.3	80.4
72	90.0	90.0	90.0	78.8	67.5	59.1	53.4	52.5	47.3
84	90.0	74.4	59.5	49.6	42.5	37.2	33.6	33.1	29.8
96	66.5	49.9	39.9	33.2	28.5	24.9	22.5	22.2	19.9
108	46.7	35.0	28.0	23.3	20.0	17.5	15.8	15.6	14.0

QUALIFIED ANCHOR CLIPS



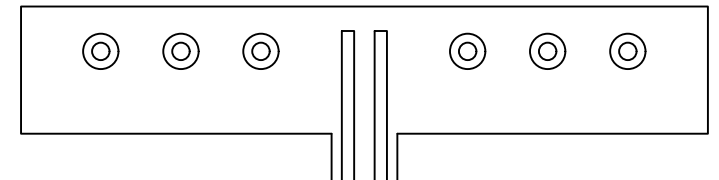
2" X 5" X 2 1/4" L-CLIP

ALUMINUM 6063-T6
**MUST BE USED IN PAIRS



10 15/32" X 2 1/4" H-CLIP

ALUMINUM 6063-T6



10 15/32" X 1 15/16" FIN H-CLIP

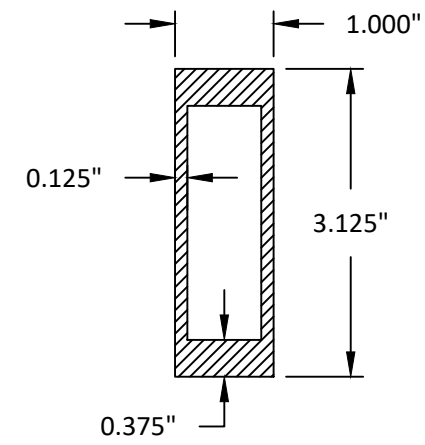
ALUMINUM 6063-T6

2 1/4" U-CLIP

ALUMINUM 6005-T5

U-CLIP FOR USE ONLY IN MULLION-TO-MULLION CONNECTIONS

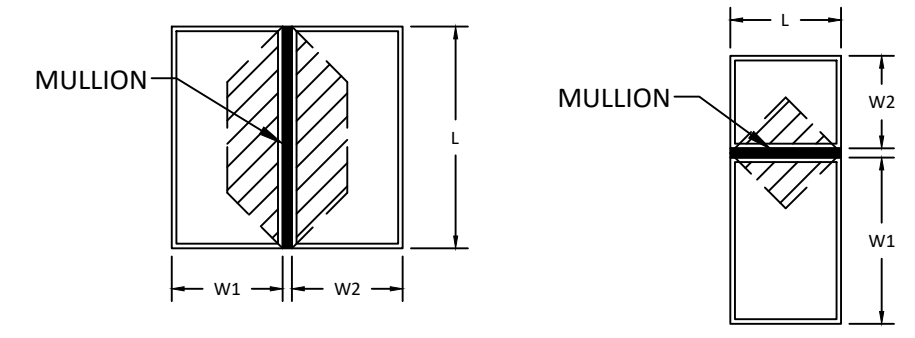
NOTE: SEE SHEET 3 FOR SPECIFIC CLIP TYPES AND DIMENSIONS.



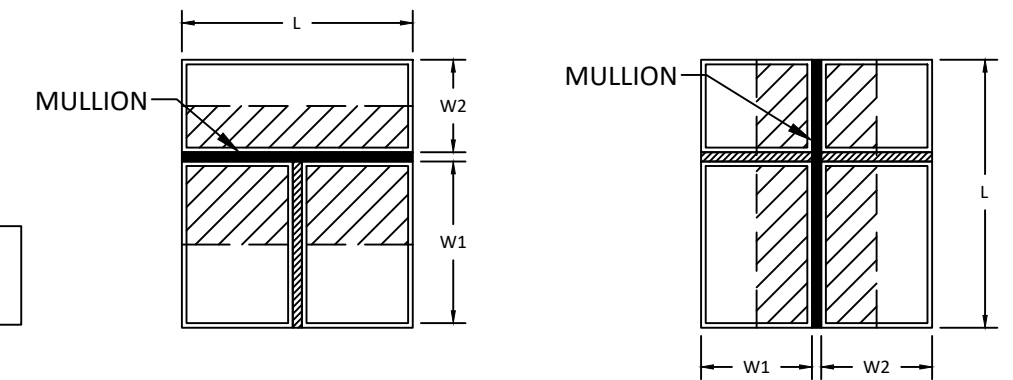
1" X 3-1/8" (LIGHT) MULLION

ALUMINUM 6005-T5

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



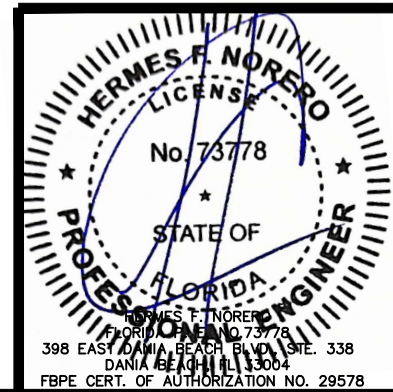
ONE-WAY MULLION DIAGRAMS



TWO-WAY MULLION DIAGRAMS

TABLE NOTES:

- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 4, 5, & 6 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
- LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
- SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- SEE SHEET 3 FOR SPECIFIC CLIP DIMENSIONS.
- ANCHOR REQUIREMENTS:
 - WOOD: #14 WOOD SCREWS
 - CMU: 1/4" ITW TAPCONS
 - CONCRETE: 1/4" ITW TAPCONS
 - METAL: 1/4" SELF-DRILLING SCREWS (GRADE 5)
- INSTALLATION SUBSTRATES:
 - WOOD ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-1/2" & EDGE DISTANCE OF 1". WOOD SHALL BE MIN. S.G.=0.55.
 - HOLLOW CMU ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-1/4" & EDGE DISTANCE OF 2-1/2". HOLLOW CMU SHALL BE MEDIUM WEIGHT CONFORMING TO ASTM C 90.
 - CONCRETE ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-3/4" & EDGE DISTANCE OF 2-1/2". CONCRETE SHALL BE MIN. 4000 PSI.
 - METAL ANCHORS SHALL HAVE A MIN. (3) THREADS PENETRATION BEYOND METAL STRUCTURE. STEEL SHALL BE MIN. 18 GA. (0.045" THICK) 33 KSI YIELD. ALUMINUM SHALL BE MIN. 1/8" THICK ALUMINUM 6063-T5.



REVISIONS			
BY	DATE	DESCRIPTION	REV

Eastern
ARCHITECTURAL SYSTEMS
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IMPACT WINDOWS AND DOORS

EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
EASTERN METAL SUPPLY

16341 DOMESTIC AVE.
FT MYERS, FL 33912
1-877-401-2190

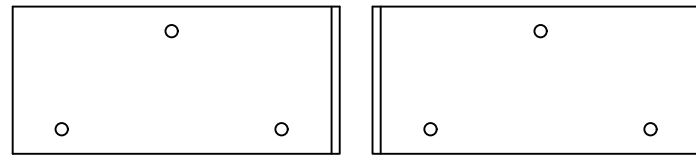
TITLE: HVHZ CLIPPED ALUMINUM TUBE MULLIONS VERTICAL AND HORIZONTAL CONFIGURATIONS 1" x 3 1/8" LIGHT MULLION

DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	<p>BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578</p>
SHEET: 7 OF 13	REV: -	

DESIGN PRESSURE LIMITS FOR MULLION: 1-1/4" X 3" - ONE-WAY MULLION									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72	90.0	90.0	90.0	87.3	77.7	71.1	67.2	66.7	63.8
84	90.0	76.9	62.7	53.5	47.1	42.6	39.7	39.3	36.9
96	67.4	51.1	41.5	35.2	30.8	27.6	25.6	25.2	23.5
108	47.2	35.7	28.9	24.4	21.3	19.0	17.5	17.2	15.9

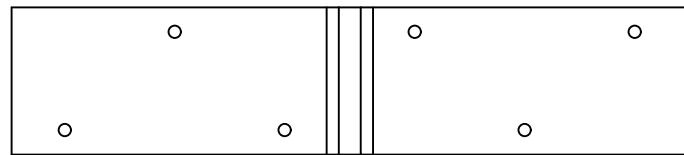
DESIGN PRESSURE LIMITS FOR MULLION: 1-1/4" X 3" - TWO-WAY MULLION									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	89.3	80.4
72	90.0	90.0	90.0	78.8	67.5	59.1	53.4	52.5	47.3
84	90.0	74.4	59.5	49.6	42.5	37.2	33.6	33.1	29.8
96	66.5	49.9	39.9	33.2	28.5	24.9	22.5	22.2	19.9
108	46.7	35.0	28.0	23.3	20.0	17.5	15.8	15.6	14.0

QUALIFIED ANCHOR CLIPS



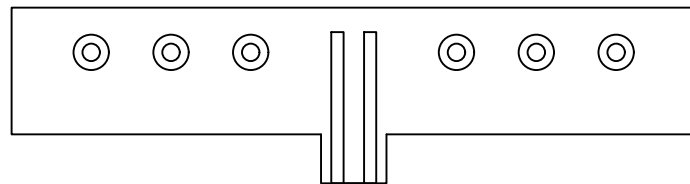
2" X 5" X 2 1/4" L-CLIP

ALUMINUM 6063-T6
**MUST BE USED IN PAIRS



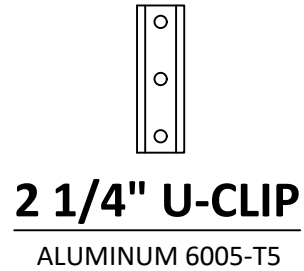
10 15/32" X 2 1/4" H-CLIP

ALUMINUM 6063-T6



10 15/32" X 1 15/16" FIN H-CLIP

ALUMINUM 6063-T6

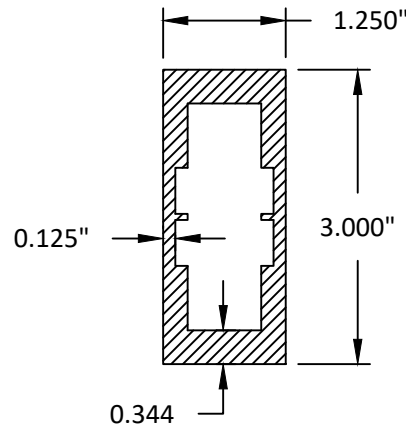


2 1/4" U-CLIP

ALUMINUM 6005-T5

U-CLIP FOR USE ONLY IN
MULLION-TO-MULLION
CONNECTIONS

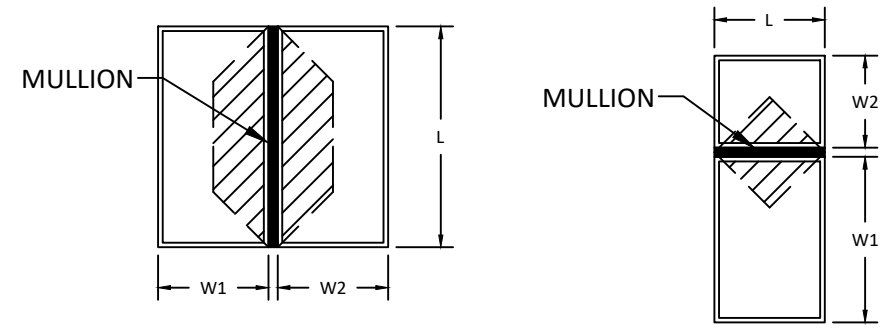
NOTE: SEE SHEET 3 FOR SPECIFIC CLIP
TYPES AND DIMENSIONS.



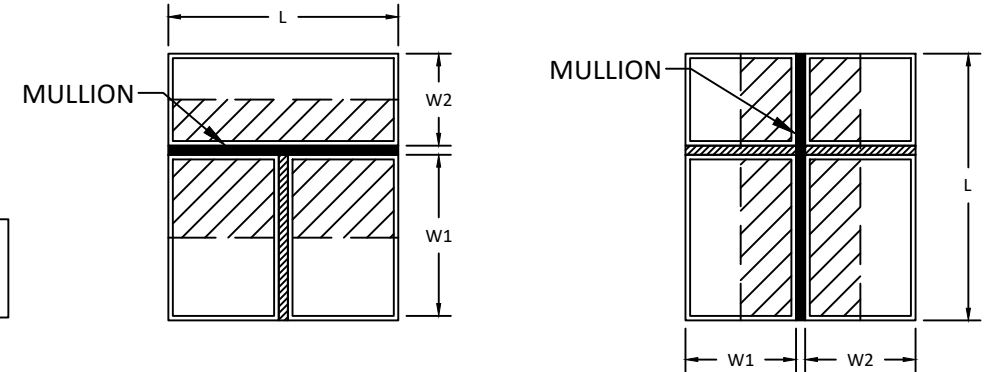
1-1/4" X 3" MULLION

ALUMINUM 6005-T5

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



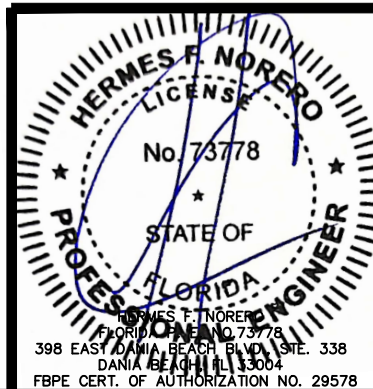
ONE-WAY MULLION DIAGRAMS



TWO-WAY MULLION DIAGRAMS

TABLE NOTES:

- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 4, 5, & 6 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
- LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
- SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- SEE SHEET 3 FOR SPECIFIC CLIP DIMENSIONS.
- ANCHOR REQUIREMENTS:
 - WOOD: #14 WOOD SCREWS
 - CMU: 1/4" ITW TAPCONS
 - CONCRETE: 1/4" ITW TAPCONS
 - METAL: 1/4" SELF-DRILLING SCREWS (GRADE 5)
- INSTALLATION SUBSTRATES:
 - WOOD ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-1/2" & EDGE DISTANCE OF 1". WOOD SHALL BE MIN. S.G.=0.55.
 - HOLLOW CMU ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-1/4" & EDGE DISTANCE OF 2-1/2". HOLLOW CMU SHALL BE MEDIUM WEIGHT CONFORMING TO ASTM C 90.
 - CONCRETE ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-3/4" & EDGE DISTANCE OF 2-1/2". CONCRETE SHALL BE MIN. 4000 PSI.
 - METAL ANCHORS SHALL HAVE A MIN. (3) THREADS PENETRATION BEYOND METAL STRUCTURE. STEEL SHALL BE MIN. 18 GA. (0.045" THICK) 33 KSI YIELD. ALUMINUM SHALL BE MIN. 1/8" THICK ALUMINUM 6063-T5.



REVISIONS			
SH	DATE	DESCRIPTION	REV
9/7/2023	NEW SHEET ADDED		1

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ARCHITECTURAL SYSTEMS
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IMPACT WINDOWS AND DOORS

EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
EASTERN METAL SUPPLY

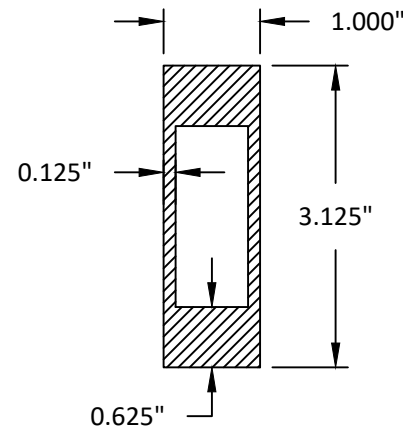
16341 DOMESTIC AVE.
FT MYERS, FL 33912
1-877-401-2190

TITLE: HVHZ CLIPPED ALUMINUM TUBE MULLIONS
VERTICAL AND HORIZONTAL CONFIGURATIONS
1 1/4" X 3" MULLION

DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	<p>BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578</p>
SHEET: 8 OF 13	REV: -	

DESIGN PRESSURE LIMITS FOR MULLION: 1" x 3-1/8" (HEAVY) - ONE-WAY MULLIONS									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72	90.0	90.0	90.0	90.0	90.0	88.9	84.0	83.3	79.7
84	90.0	90.0	78.4	66.8	58.9	53.2	49.6	49.1	46.1
96	84.2	63.9	51.8	44.0	38.5	34.5	31.9	31.5	29.3
108	58.9	44.6	36.1	30.5	26.6	23.7	21.8	21.5	19.9

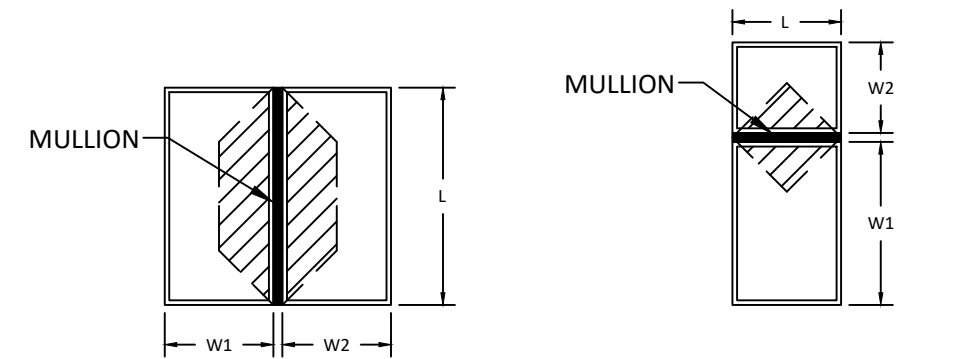
DESIGN PRESSURE LIMITS FOR MULLION: 1" x 3-1/8" (HEAVY) - TWO-WAY MULLIONS									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	89.3	80.4
72	90.0	90.0	90.0	90.0	84.4	73.8	66.7	65.6	59.1
84	90.0	90.0	74.4	62.0	53.1	46.5	42.0	41.3	37.2
96	83.0	62.3	49.8	41.5	35.6	31.1	28.1	27.7	24.9
108	58.3	43.7	35.0	29.2	25.0	21.9	19.8	19.4	17.5



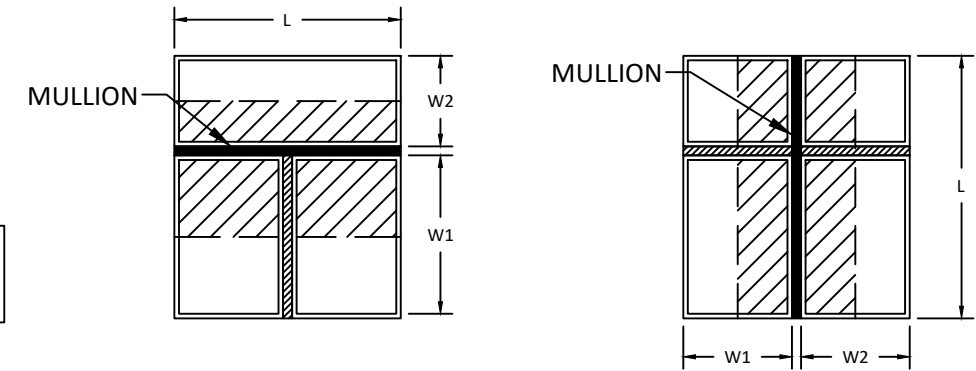
1" X 3-1/8" (HEAVY) MULLION

ALUMINUM 6005-T5

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

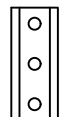


ONE-WAY MULLION DIAGRAMS



TWO-WAY MULLION DIAGRAMS

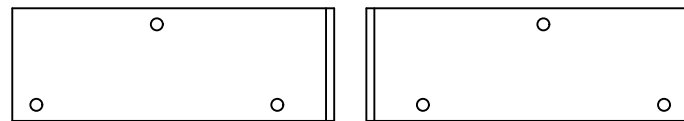
QUALIFIED ANCHOR CLIPS



1 3/4" U-CLIP

ALUMINUM 6005-T5

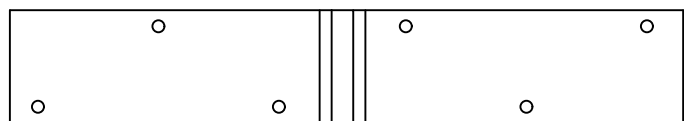
U-CLIP FOR USE ONLY IN MULLION-TO-MULLION CONNECTIONS



2" X 5" X 1 3/4" L-CLIP

ALUMINUM 6063-T6

**MUST BE USED IN PAIRS



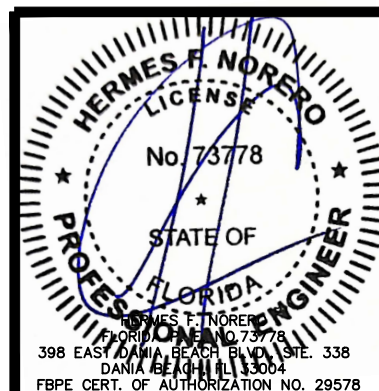
10 15/32" X 1 3/4" H-CLIP

ALUMINUM 6063-T6

NOTE: SEE SHEET 3 FOR SPECIFIC CLIP TYPES AND DIMENSIONS.

TABLE NOTES:

- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 4, 5, & 6 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
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- SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- SEE SHEET 3 FOR SPECIFIC CLIP DIMENSIONS.
- ANCHOR REQUIREMENTS:
 - WOOD: #14 WOOD SCREWS
 - CMU: 1/4" ITW TAPCONS
 - CONCRETE: 1/4" ITW TAPCONS
 - METAL: 1/4" SELF-DRILLING SCREWS (GRADE 5)
- INSTALLATION SUBSTRATES:
 - WOOD ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-1/2" & EDGE DISTANCE OF 1". WOOD SHALL BE MIN. S.G.=0.55.
 - HOLLOW CMU ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-1/4" & EDGE DISTANCE OF 2-1/2". HOLLOW CMU SHALL BE MEDIUM WEIGHT CONFORMING TO ASTM C 90.
 - CONCRETE ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-3/4" & EDGE DISTANCE OF 2-1/2". CONCRETE SHALL BE MIN. 4000 PSI.
 - METAL ANCHORS SHALL HAVE A MIN. (3) THREADS PENETRATION BEYOND METAL STRUCTURE. STEEL SHALL BE MIN. 18 GA. (0.045" THICK) 33 KSI YIELD. ALUMINUM SHALL BE MIN. 1/8" THICK ALUMINUM 6063-T5.



REVISIONS			
BY	DATE	DESCRIPTION	REV

Eastern
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ALUMINUM AND VINYL
IMPACT WINDOWS AND DOORS

EASTERN ARCHITECTURAL SYSTEMS
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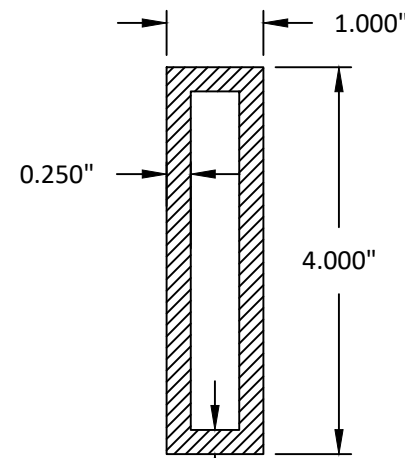
16341 DOMESTIC AVE.
FT MYERS, FL 33912
1-877-401-2190

TITLE: HVHZ CLIPPED ALUMINUM TUBE MULLIONS VERTICAL AND HORIZONTAL CONFIGURATIONS 1" x 3 1/8" HEAVY MULLION

DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	<p>BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578</p>
SHEET: 9 OF 13	REV: -	

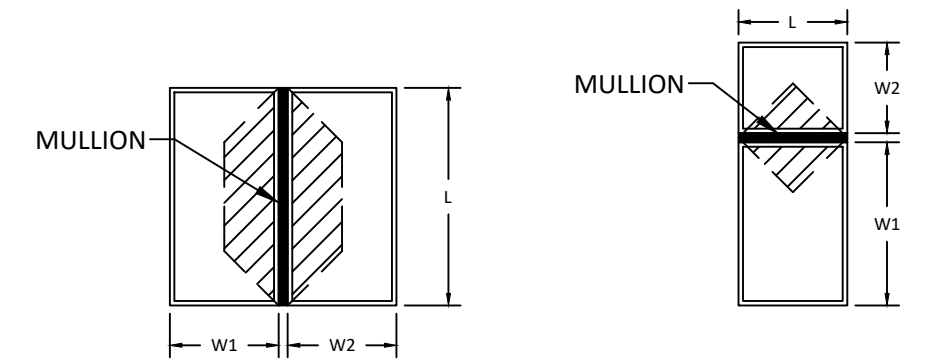
DESIGN PRESSURE LIMITS FOR MULLION: 1" x 4" - ONE-WAY MULLIONS									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
84	90.0	90.0	90.0	90.0	90.0	88.5	82.5	81.7	76.7
96	90.0	90.0	86.3	73.2	64.1	57.4	53.1	52.5	48.8
108	90.0	74.2	60.1	50.8	44.3	39.5	36.3	35.9	33.1

DESIGN PRESSURE LIMITS FOR MULLION: 1" x 4" - TWO-WAY MULLIONS									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
84	90.0	90.0	90.0	90.0	88.4	77.4	69.9	68.8	61.9
96	90.0	90.0	82.9	69.1	59.2	51.8	46.8	46.1	41.5
108	90.0	72.8	58.2	48.5	41.6	36.4	32.9	32.4	29.1

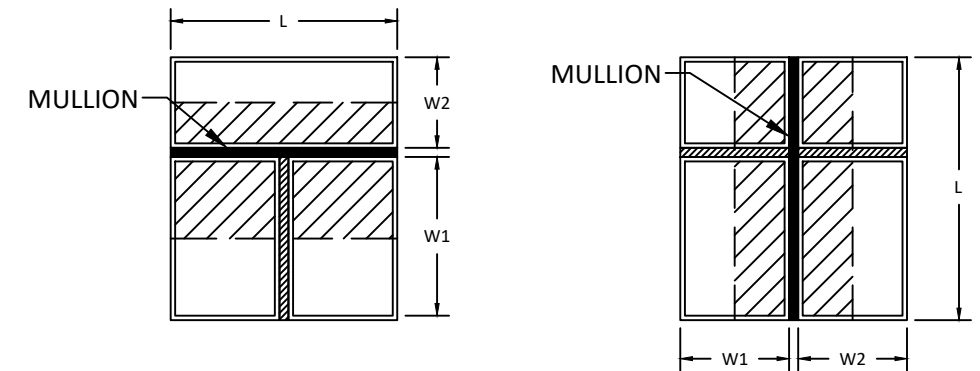


1" X 4" MULLION
ALUMINUM 6005-T5

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

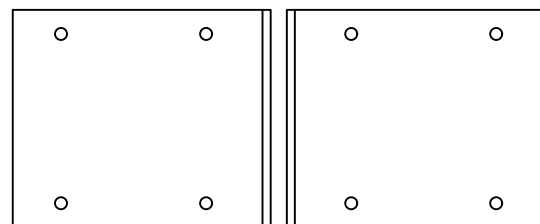


ONE-WAY MULLION DIAGRAMS

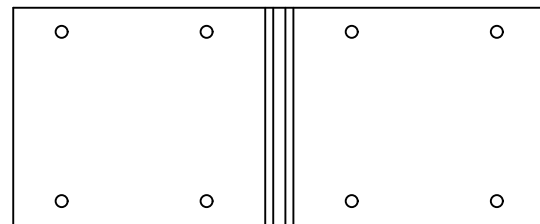


TWO-WAY MULLION DIAGRAMS

QUALIFIED ANCHOR CLIPS



2" X 4" X 3 3/8" L-CLIP
ALUMINUM 6063-T6
**MUST BE USED IN PAIRS

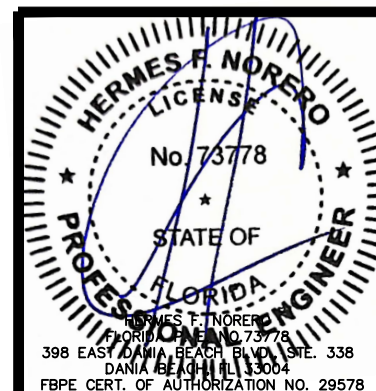


8 1/4" X 3 3/8" H-CLIP
ALUMINUM 6063-T6

NOTE: SEE SHEET 3 FOR SPECIFIC CLIP TYPES AND DIMENSIONS.

TABLE NOTES:

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- SEE SHEET 3 FOR SPECIFIC CLIP DIMENSIONS.
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 - CMU: 1/4" ITW TAPCONS
 - CONCRETE: 1/4" ITW TAPCONS
 - METAL: 1/4" SELF-DRILLING SCREWS (GRADE 5)
- INSTALLATION SUBSTRATES:
 - WOOD ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-1/2" & EDGE DISTANCE OF 1". WOOD SHALL BE MIN. S.G.=0.55.
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REVISIONS			
BY	DATE	DESCRIPTION	REV

Eastern
ARCHITECTURAL SYSTEMS
ALUMINUM AND VINYL
IMPACT WINDOWS AND DOORS

EASTERN ARCHITECTURAL SYSTEMS
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EASTERN METAL SUPPLY

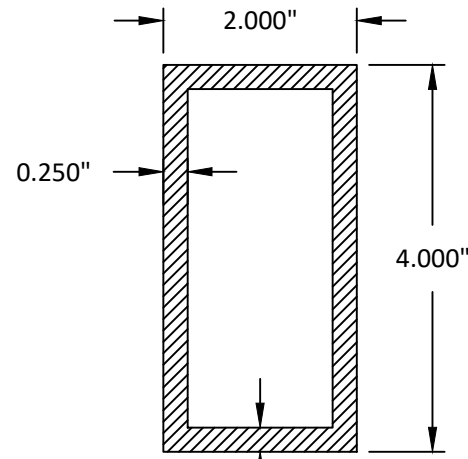
16341 DOMESTIC AVE.
FT MYERS, FL 33912
1-877-401-2190

TITLE: HVHZ CLIPPED ALUMINUM TUBE MULLIONS
VERTICAL AND HORIZONTAL CONFIGURATIONS
1" x 4" MULLION

DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	<p>BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578</p>
SHEET: 10 OF 13	REV: -	

DESIGN PRESSURE LIMITS FOR MULLION: 2" x 4" - ONE-WAY MULLIONS									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
84	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
96	90.0	90.0	90.0	90.0	90.0	85.9	79.5	78.5	73.0
108	90.0	90.0	89.9	76.0	66.2	59.1	54.4	53.7	49.5

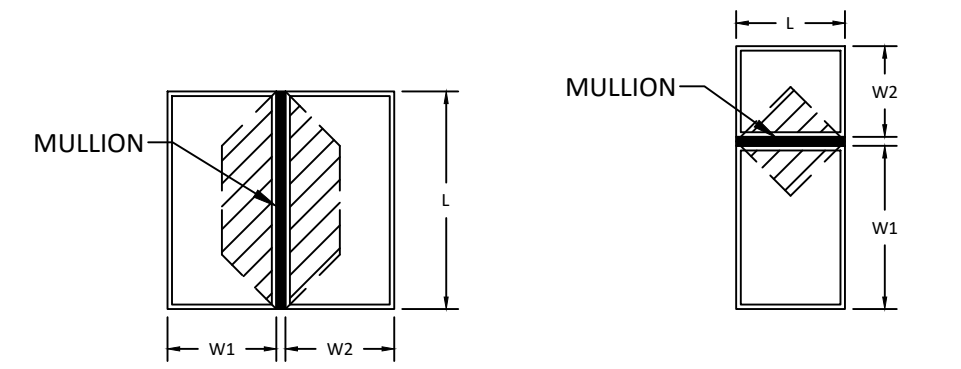
DESIGN PRESSURE LIMITS FOR MULLION: 2" x 4" - TWO-WAY MULLIONS									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
84	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
96	90.0	90.0	90.0	90.0	88.6	77.6	70.1	68.9	62.0
108	90.0	90.0	87.1	72.6	62.2	54.5	49.2	48.4	43.6



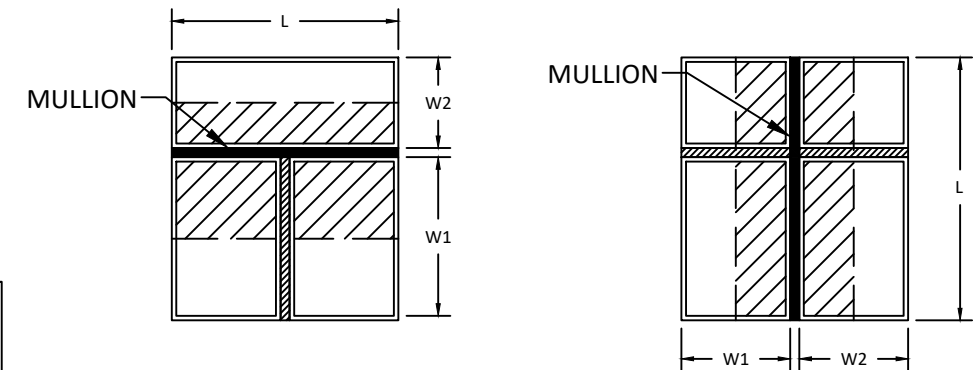
2" X 4" MULLION

ALUMINUM 6005-T5

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

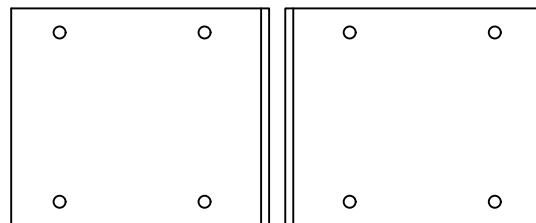


ONE-WAY MULLION DIAGRAMS



TWO-WAY MULLION DIAGRAMS

QUALIFIED ANCHOR CLIPS



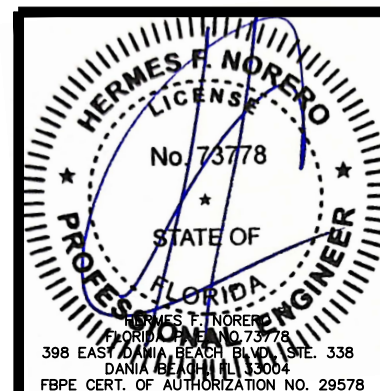
2" X 4" X 3/8" L-CLIP

ALUMINUM 6063-T6
**MUST BE USED IN PAIRS

NOTE: SEE SHEET 3 FOR SPECIFIC CLIP TYPES AND DIMENSIONS.

TABLE NOTES:

- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 4 AND 5 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
- LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
- SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- SEE SHEET 3 FOR SPECIFIC CLIP DIMENSIONS.
- ANCHOR REQUIREMENTS:
 - WOOD: #14 WOOD SCREWS
 - CMU: 1/4" ITW TAPCONS
 - CONCRETE: 1/4" ITW TAPCONS
 - METAL: 1/4" SELF-DRILLING SCREWS (GRADE 5)
- INSTALLATION SUBSTRATES:
 - WOOD ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-1/2" & EDGE DISTANCE OF 1". WOOD SHALL BE MIN. S.G.=0.55.
 - HOLLOW CMU ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-1/4" & EDGE DISTANCE OF 2-1/2". HOLLOW CMU SHALL BE MEDIUM WEIGHT CONFORMING TO ASTM C 90.
 - CONCRETE ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-3/4" & EDGE DISTANCE OF 2-1/2". CONCRETE SHALL BE MIN. 4000 PSI.
 - METAL ANCHORS SHALL HAVE A MIN. (3) THREADS PENETRATION BEYOND METAL STRUCTURE. STEEL SHALL BE MIN. 18 GA. (0.045" THICK) 33 KSI YIELD. ALUMINUM SHALL BE MIN. 1/8" THICK ALUMINUM 6063-T5.



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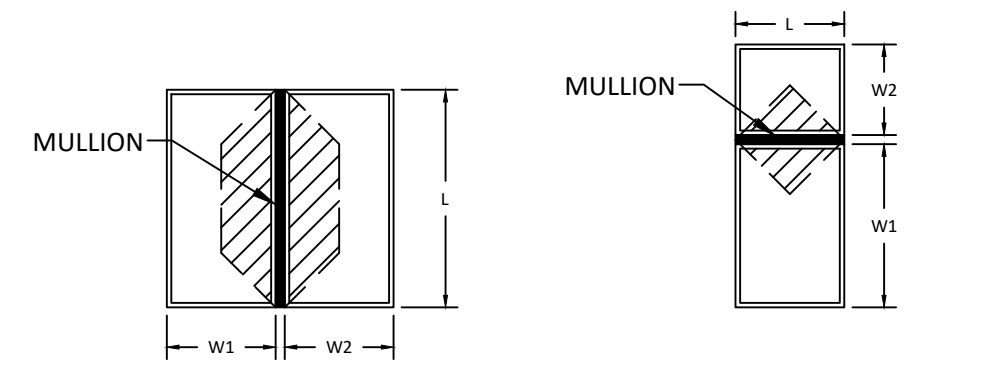
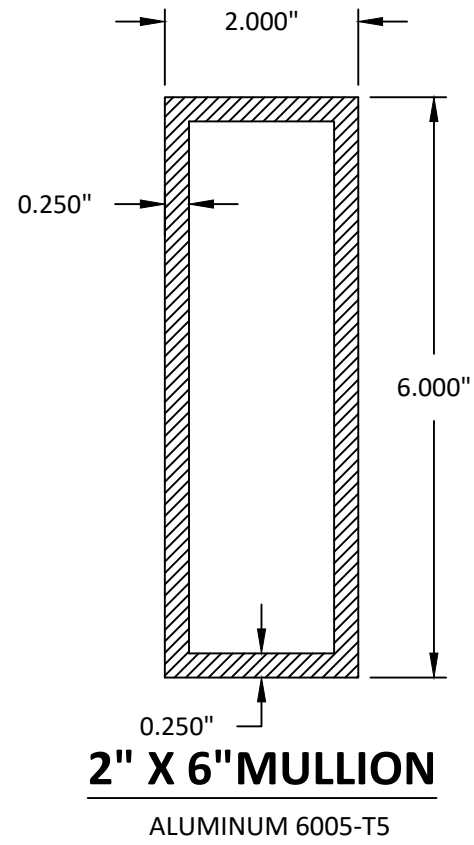
16341 DOMESTIC AVE.
FT MYERS, FL 33912
1-877-401-2190

TITLE: HVHZ CLIPPED ALUMINUM TUBE MULLIONS
VERTICAL AND HORIZONTAL CONFIGURATIONS
2" x 4" MULLION

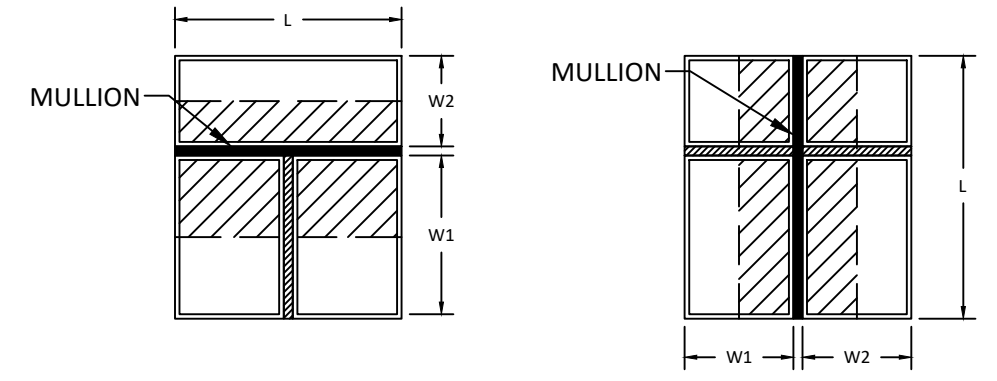
DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	 <p>BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578</p>
SHEET: 11 OF 13	REV: -	

DESIGN PRESSURE LIMITS FOR MULLION: 2" x 6" - ONE-WAY MULLIONS									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
84	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
96	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
108	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0

DESIGN PRESSURE LIMITS FOR MULLION: 2" x 6" - TWO-WAY MULLIONS									
SPAN 'L' (IN.)	TRIBUTARY WIDTH 'W' (IN.)								
	18	24	30	36	42	48	53.125	54	60
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
84	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
96	90.0	90.0	90.0	90.0	90.0	90.0	89.0	87.6	78.8
108	90.0	90.0	90.0	90.0	90.0	87.6	79.1	77.8	70.0



ONE-WAY MULLION DIAGRAMS



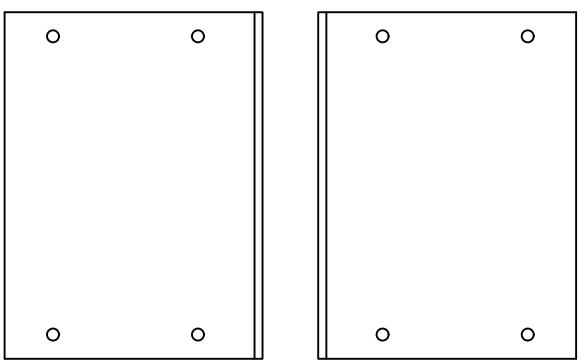
TWO-WAY MULLION DIAGRAMS

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

TABLE NOTES:

- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 4, 5, & 6 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
- LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
- SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- SEE SHEET 3 FOR SPECIFIC CLIP DIMENSIONS.
- ANCHOR REQUIREMENTS:
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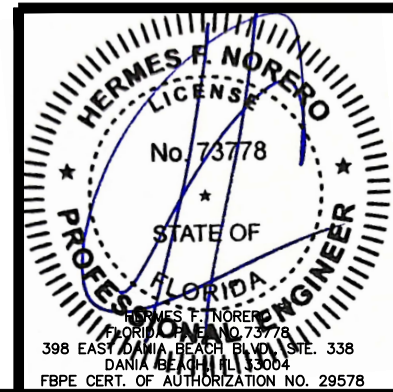
QUALIFIED ANCHOR CLIPS



2" X 4" X 5 3/8" L-CLIP

ALUMINUM 6063-T6
**MUST BE USED IN PAIRS

NOTE: SEE SHEET 3 FOR SPECIFIC CLIP TYPES AND DIMENSIONS.



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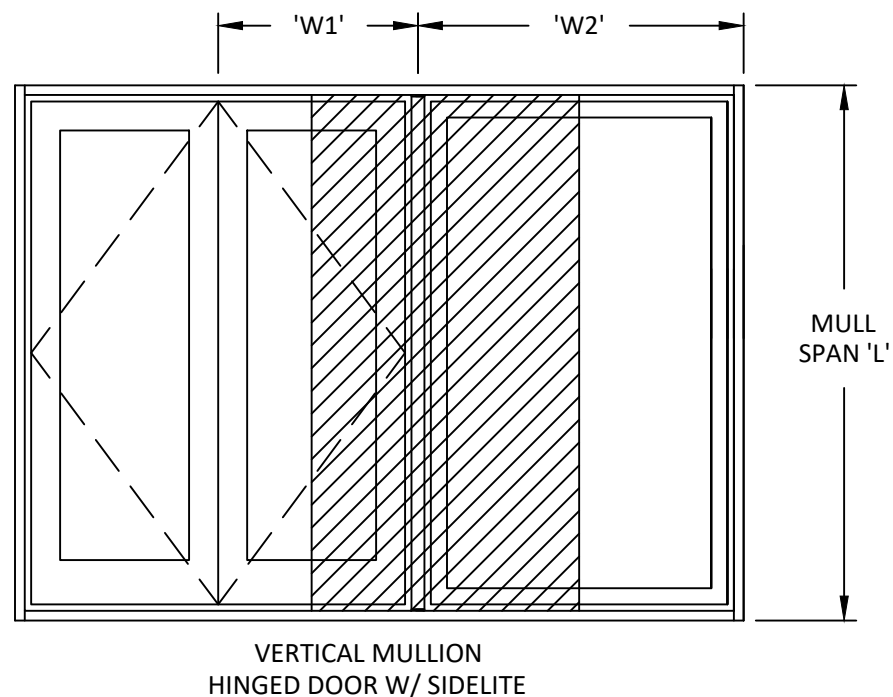
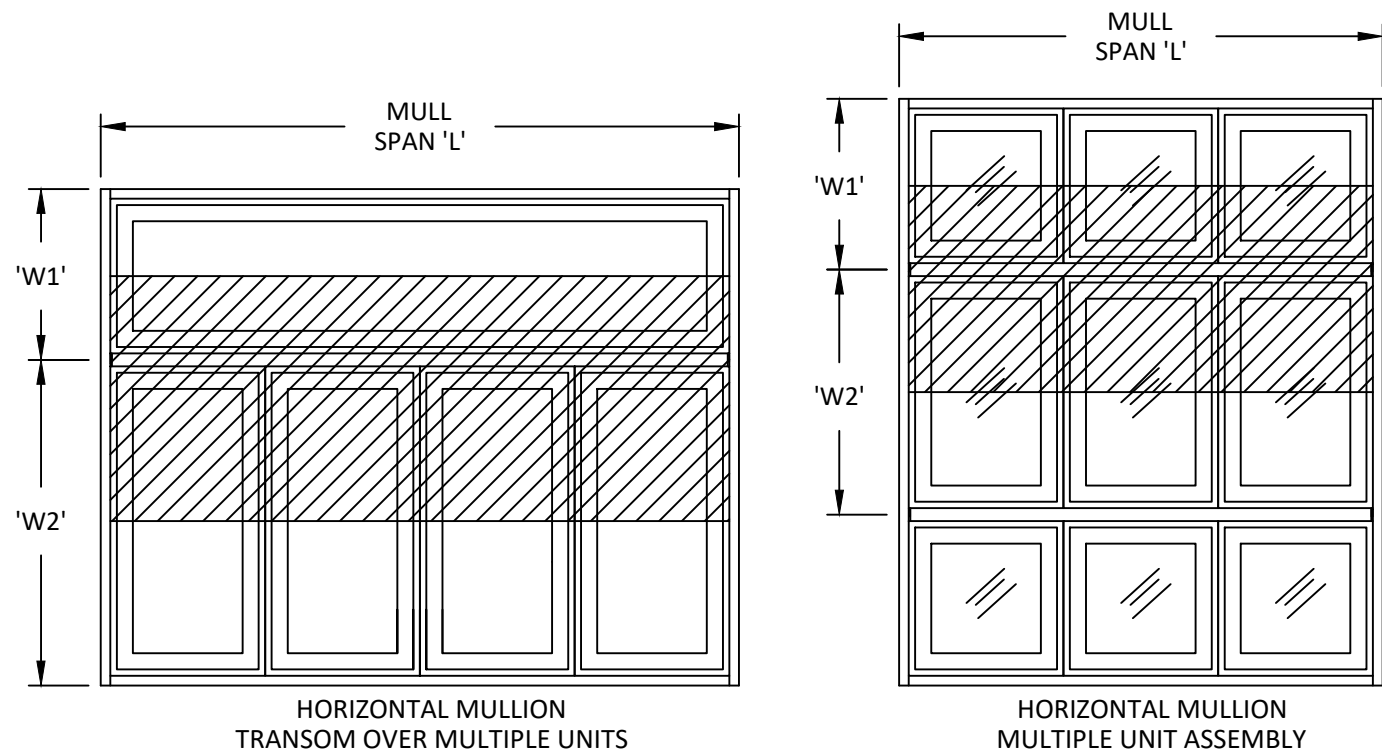
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FT MYERS, FL 33912
1-877-401-2190

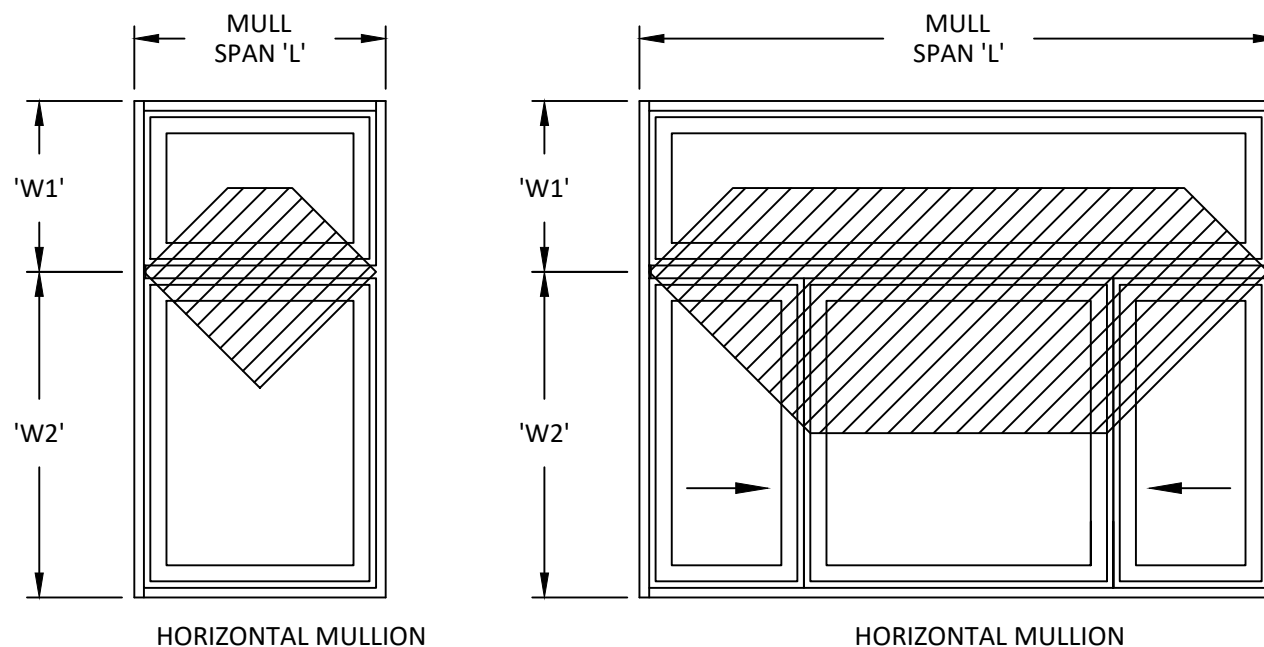
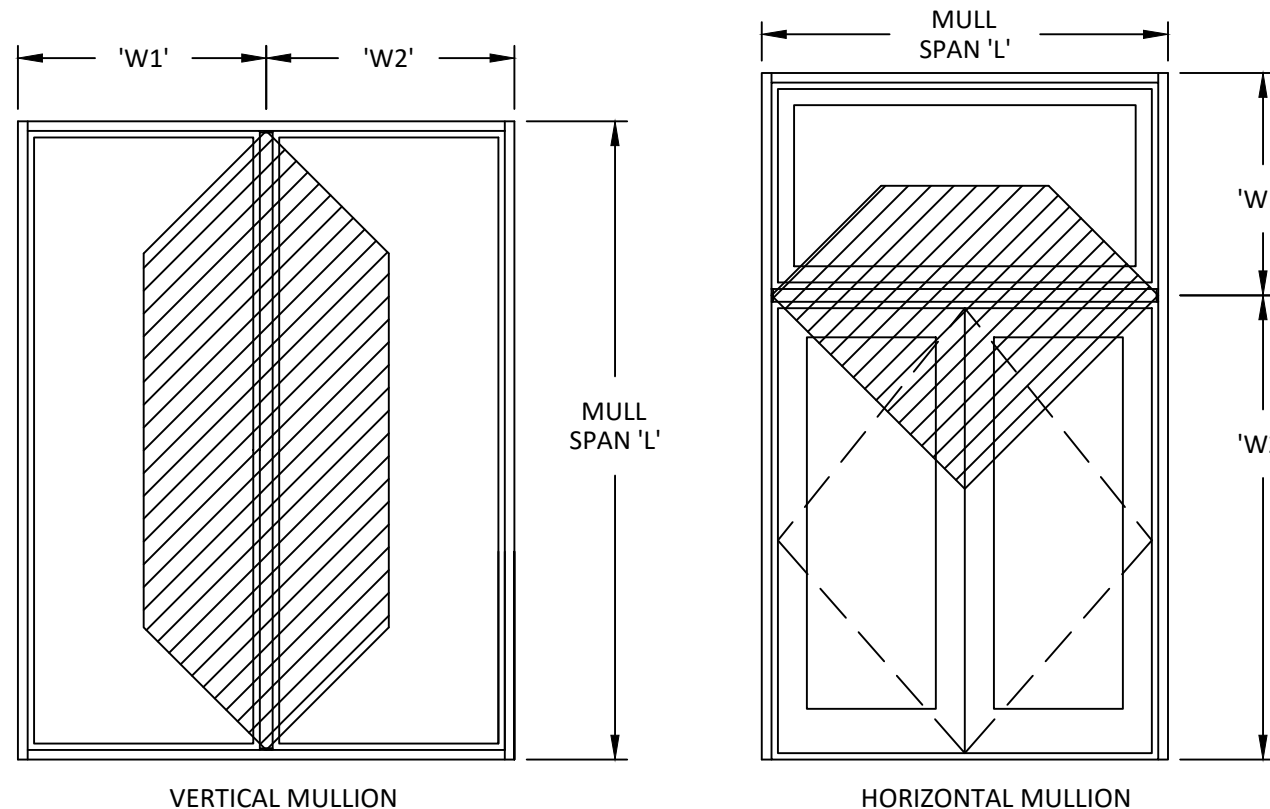
TITLE: HVHZ CLIPPED ALUMINUM TUBE MULLIONS
VERTICAL AND HORIZONTAL CONFIGURATIONS
2" x 6" MULLION

DATE: 02/05/13	DRAWN BY: TJH	PREPARED BY:
DRAWING NO: PA-0003	SCALE: N.T.S.	<p>BUILDING DROPS, INC. FBPE CERTIFICATE OF AUTHORIZATION NO. 29578</p>
SHEET: 12 OF 13	REV: -	

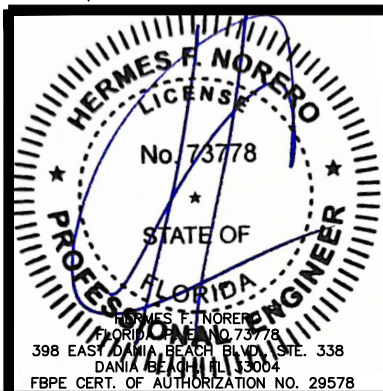
EXAMPLES OF TWO-WAY MULLION ASSEMBLIES



EXAMPLES OF ONE-WAY MULLION ASSEMBLIES



- NOTES:**
1. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CONFIGURATIONS NOT SPECIFICALLY SHOWN MAY BE EXTRAPOLATED FROM THOSE SHOWN.
 2. IF THE LOADING TYPE CANNOT BE DETERMINED, USE TWO-WAY ASSEMBLY CONFIGURATION VALUES.
 3. FENESTRATION PRODUCTS SHALL BE ANCHORED AS APPROVED.



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FT MYERS, FL 33912
1-877-401-2190

TITLE:
**HVHZ CLIPPED ALUMINUM TUBE MULLIONS
VERTICAL AND HORIZONTAL CONFIGURATIONS
MULLION ASSEMBLY AND LOAD EXAMPLES**

DATE: 02/05/13
DRAWN BY: TJH
DRAWING NO: PA-0003
SCALE: N.T.S.
SHEET: 13 OF 13
REV: -

PREPARED BY:
BD
BUILDING DROPS

BUILDING DROPS, INC.
FBPE CERTIFICATE OF
AUTHORIZATION NO. 29578