# **EURO-WALL SYSTEMS**

## **ALUMINUM TUBE MULLION**

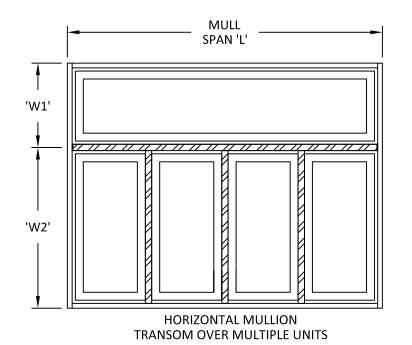
#### **GENERAL NOTES:**

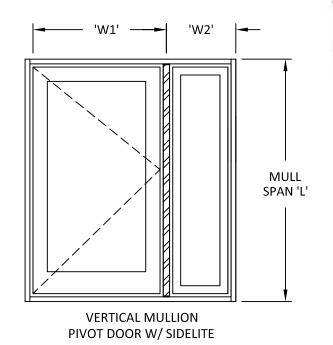
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE EXCLUDING HVHZ
- 2. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS IN WIND ZONE 3 OR LESS. INDIVIDUAL UNITS ATTACHED TO MULLIONS MUST BE IMPACT RATED.
- APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS IN WIND ZONE 4. 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.
- 7. MULLION & CLIP MATERIAL: ALUMINUM 6005-T5, 6063-T6, MINIMUM A36 STEEL (AS NOTED)
- 8. MULLIONS MAY BE USED WITH ANY APPROVED FENESTRATION PRODUCT, UNDER SEPARATE APPROVAL.
- 9. SEE SHEETS 5-9 FOR INSTALLATION ANCHOR REQUIREMENTS FOR SPECIFIC ANCHORING REQUIREMENTS, MULLION CONFIGURATIONS, AND DESIGN LOAD CAPACITIES.
- 10. IN ACCORDANCE WITH THE CURRENT FLORIDA BUILDING CODE, DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED AS DEFINED IN CHAPTER 16.

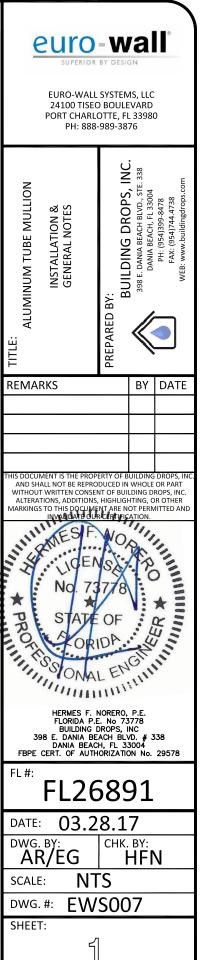
#### INSTRUCTIONS:

- 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 10 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 5-9.
- QUALIFIED CLIP TYPES APPEAR ON SHEET 2. MULTIPLE ANCHOR
   TYPE/SUBSTRATE/CLIP COMBINATIONS WITHIN AN OPENING ARE ALLOWED.
- THE LESSER DESIGN PRESSURE OR MULLION OR FENESTRATION PRODUCT WILL GOVERN OVERALL ASSEMBLY DESIGN PRESSURE RATING.

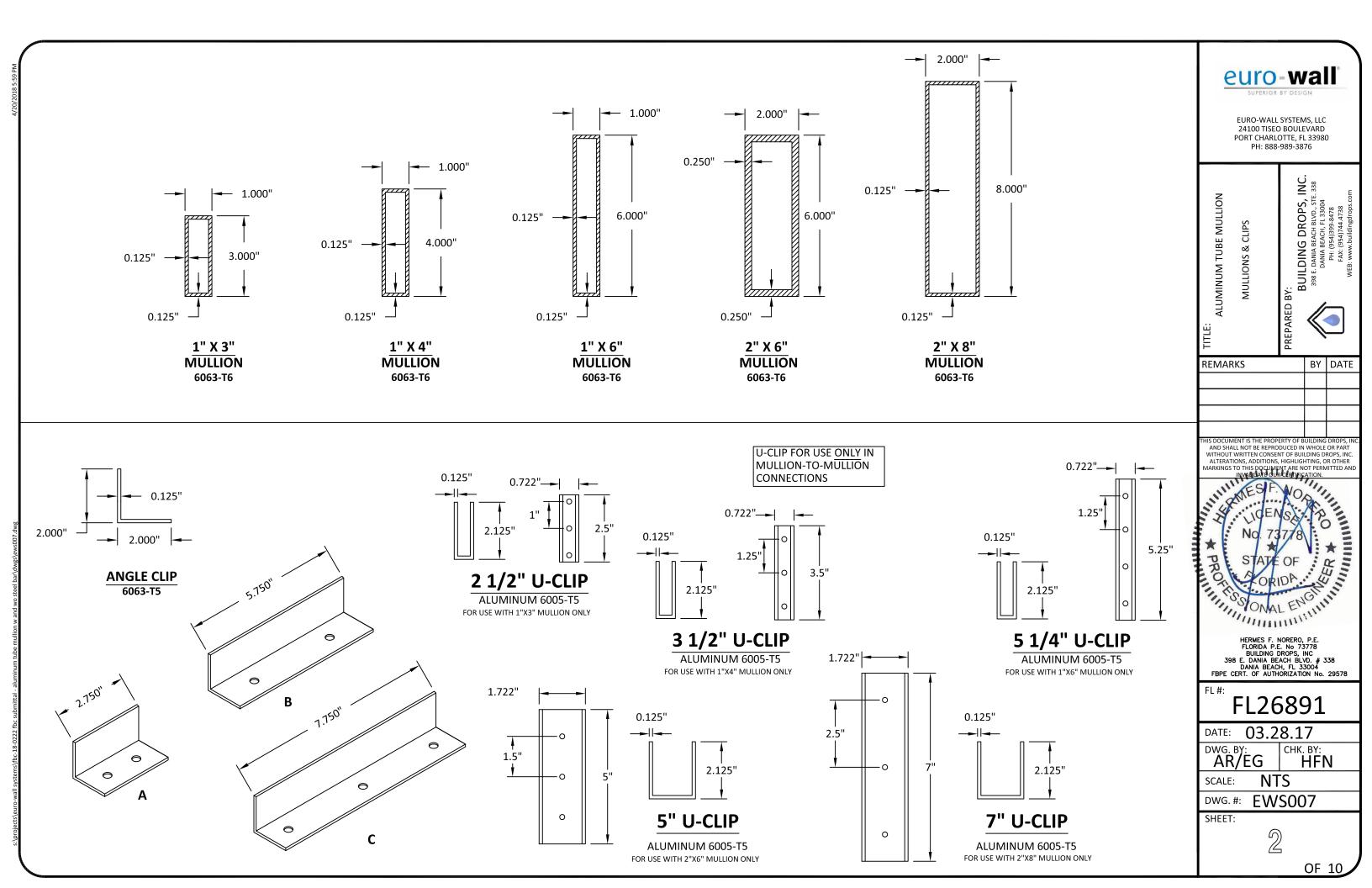
		TABLE OF CONTENTS
SHEET	REVISION	SHEET DESCRIPTION
1	-	GENERAL NOTES & INSTRUCTIONS
2	-	MULLIONS AND CLIPS
3	-	MULLIONS AND CLIPS
4	-	VERTICAL & HORIZONTAL SECTIONS
5	-	MULLION TABLES
6	-	MULLION TABLES
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9	-	MULLION TABLES
10	-	MULLION ASSEMBLIES





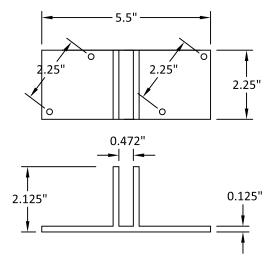


OF 10



## 5 1/2" X 2 1/4" H-CLIP

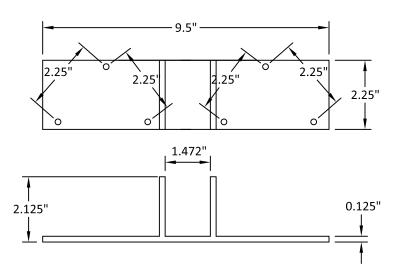
ALUMINUM 6063-T6
FOR USE WITH 1"X3" AND 1"X4" MULLIONS ONLY



## 5 1/2" X 2 1/4" H-CLIP

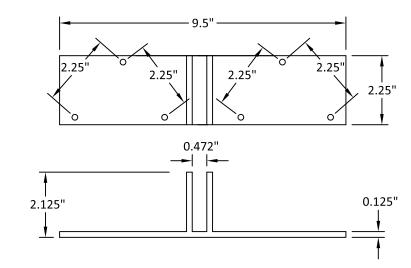
ALUMINUM 6063-T6

FOR USE WITH 1"X3" AND 1"X4" MULLIONS ONLY



## 9 1/2" X 2 1/4" H-CLIP

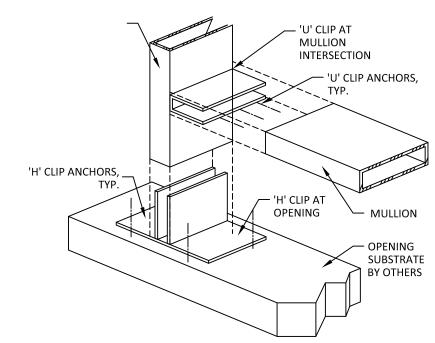
ALUMINUM 6063-T6 FOR USE WITH 1"X3" AND 1"X4" MULLIONS ONLY



## 9 1/2" X 2 1/4" H-CLIP

ALUMINUM 6063-T6

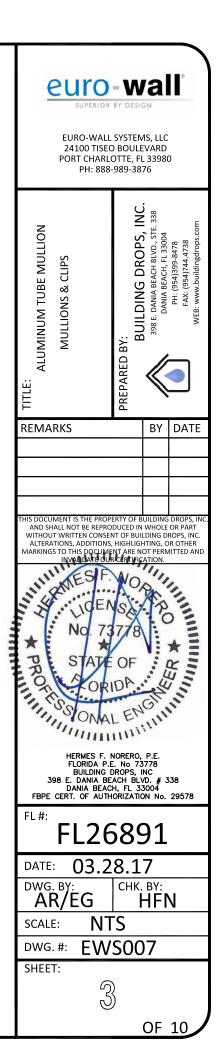
FOR USE WITH 1"X3" AND 1"X4" MULLIONS ONLY

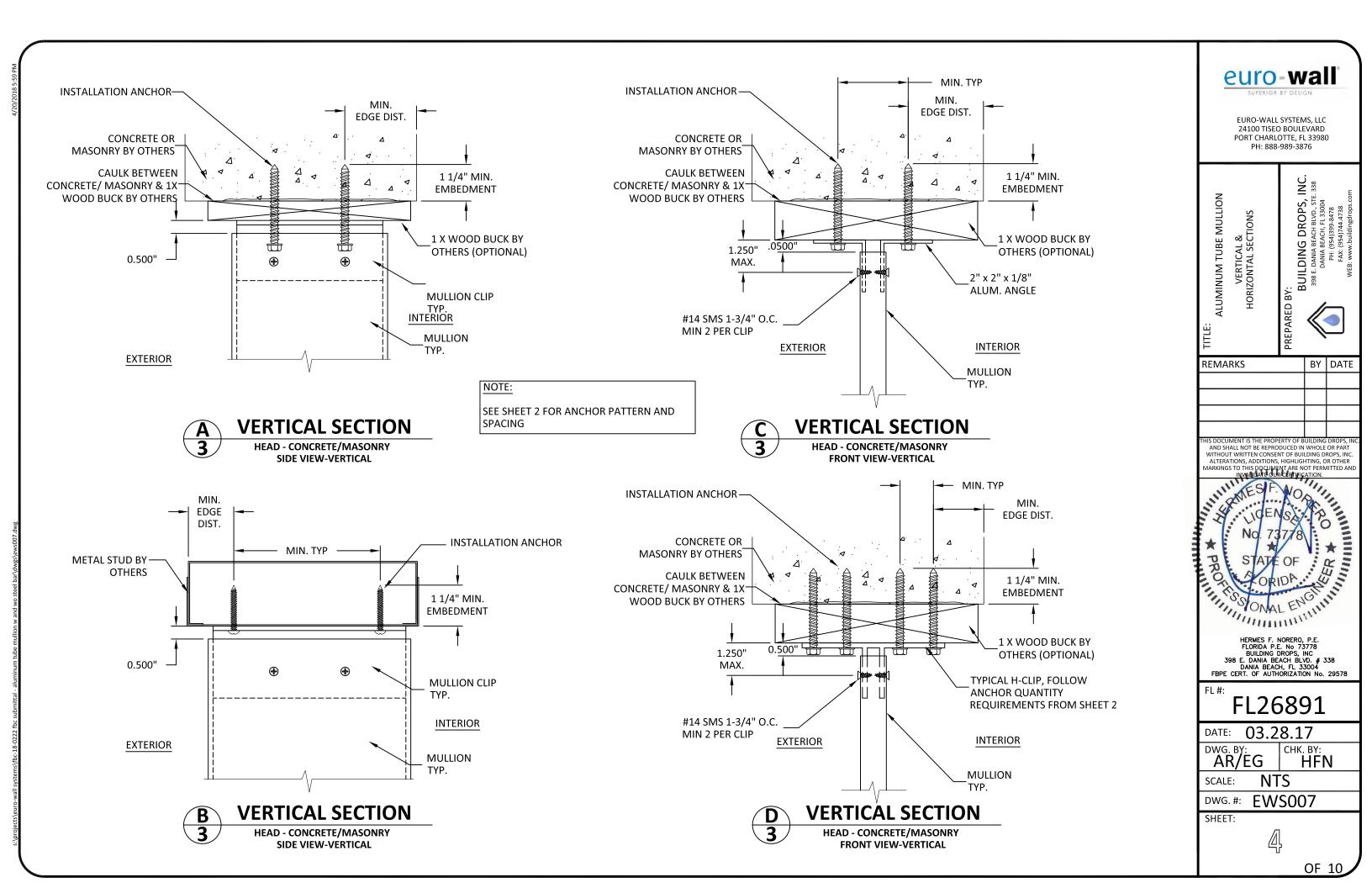


## **MULLION & CLIP ASSEMBLY (TYP.)**

NOTE: ASSEMBLY SHOWN ABOVE IS
DIAGRAMMATIC IN SCOPE. OTHER CLIP & MULLION
ASSEMBLIES ARE ALLOWED, SEE SPECIFIC MULLION
SHEET 2 FOR DETAILS.

NOTE: INSTALLATION DETAIL SECTIONS SHOW VERTICAL MULLION CONDITION. HORIZONTAL MULLIONS QUALIFIED FOR USE, RESULTING HORIZONTAL SECTIONS WOULD BE TYPICAL FOR VERTICAL SECTIONS.



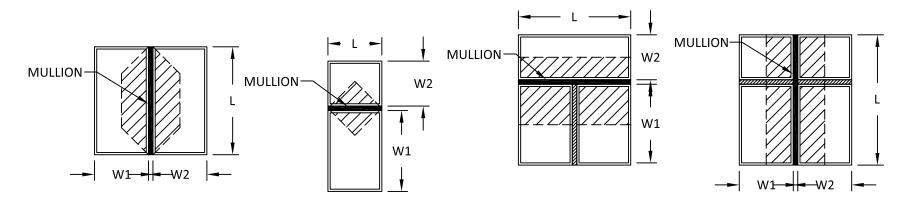


DESIGN	N PRESS	URE LIM	ITS (PSF	) FOR M	ULLION	: 1" x 3"	- ONE-V	VAY MU	LLIONS
L - Mull Length				W - Tril	outary W	idth (in)			
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
50.0	150.0	150.0	148.4	137.7	133.0	132.7	132.7	132.7	132.7
58.0	138.9	115.7	101.3	92.3	87.0	84.3	83.7	83.7	83.7
63.0	107.2	88.7	77.1	69.5	64.7	61.7	60.4	60.2	60.2
72.0	70.8	58.2	50.0	44.5	40.8	38.2	36.5	35.6	35.3
84.0	44.1	35.9	30.6	27.0	24.4	22.5	21.1	20.2	19.5
96.0	29.3	23.8	20.2	17.7	15.8	-	-	-	-
108.0	20.5	16.6	-	-	-	-	-	-	-
120.0	-	-	-	ı	-	-	-	-	-
132.0	-	_	_	_	_	_	_	-	-
144.0	_	_	_	_	_	_	_	_	_

DESIGN	I PRESSU	JRE LIM	ITS (PSF	) FOR M	ULLION:	1" x 3"	- TWO-V	VAY MU	LLIONS
L - Mull Length				W - Trik	outary W	idth (in)			
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
38.0	150.0	150.0	150.0	150.0	150.0	140.4	126.3	114.8	105.3
50.0	150.0	147.4	122.9	105.3	92.1	81.9	73.7	67.0	61.4
58.0	129.5	103.6	86.3	74.0	64.8	57.6	51.8	47.1	43.2
63.0	101.1	80.8	67.4	57.7	50.5	44.9	40.4	36.7	33.7
72.0	67.7	54.2	45.1	38.7	33.9	30.1	27.1	24.6	22.6
84.0	42.6	34.1	28.4	24.4	21.3	18.9	17.1	15.5	-
96.0	28.6	22.9	19.0	16.3	-	-	-	-	-
108.0	20.1	16.0	-	-	-	-	-	-	-
120.0	ı	-	-	-	-	-	-	-	-
132.0	-	-	-	-	-	_	-	-	-
144.0	-	_	_	_	-	_	_	_	-

DESIG	N PRESS	URE LIM	IITS (PSF		ULLION VAY MU		TEEL REI	NFORCE	MENT:
L - Mull Length			1 X 3		outary W				
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
50.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
58.0	150.0	150.0	150.0	136.0	127.3	122.9	122.0	122.0	122.0
63.0	150.0	144.1	124.5	111.7	103.2	98.0	95.5	95.2	95.2
72.0	132.4	108.3	92.7	82.2	74.8	69.7	66.4	64.4	63.8
84.0	96.3	78.3	66.5	58.4	52.5	48.3	45.1	42.9	41.4
96.0	72.5	58.9	49.9	43.7	39.1	35.6	33.0	30.9	29.4
108.0	50.6	41.0	34.6	30.2	26.9	24.5	22.6	21.1	19.9
120.0	36.8	29.7	25.0	21.7	19.3	17.5	16.0	_	-
132.0	27.5	22.2	18.7	16.2	-	-	-	-	-
144.0	21.2	17.0	-	-	-	-	-	-	-

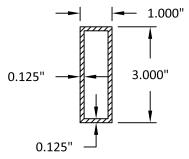
DESIG	N PRESS	URE LIM			NAY MU		TEEL REI	NFORCE	MENT:
L - Mull Length				W - Tril	outary W	idth (in)			
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
50.0	150.0	150.0	150.0	150.0	132.2	117.5	105.8	96.2	88.1
58.0	150.0	150.0	131.0	112.3	98.3	87.3	78.6	71.5	65.5
63.0	150.0	133.3	111.0	95.2	83.3	74.0	66.6	60.6	55.5
72.0	127.5	102.0	85.0	72.9	63.8	56.7	51.0	46.4	42.5
84.0	93.7	75.0	62.5	53.5	46.8	41.6	37.5	34.1	31.2
96.0	70.7	56.6	47.1	40.4	35.4	31.4	28.3	25.7	23.6
108.0	49.7	39.7	33.1	28.4	24.8	22.1	19.9	18.1	16.6
120.0	36.2	29.0	24.1	20.7	18.1	16.1	-	-	-
132.0	27.2	21.8	18.1	15.5	-	-	-	-	-
144.0	20.9	16.8	-	-	-	-	-	-	_



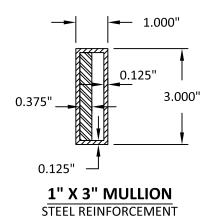
## **ONE-WAY MULLION DIAGRAMS**

## **TWO-WAY MULLION DIAGRAMS**

W1 + W2 TRIBUTARY WIDTH =



1" X 3" MULLION NO REINFORCEMENT



#### **TABLE NOTES:**

- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 3 AND 4 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
- LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
- SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- SEE SHEET 2 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)
- 6. 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 1-1/4" & 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.



ALUMINUM TUBE MULLION

BY DATE REMARKS

AND SHALL NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF BUILDING DROPS, INC. ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER



HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL#: FL26891

DATE: 03.28.17

DWG. BY: CHK. BY: AR/EG

NTS SCALE:

EWS007 DWG. #:

SHEET:



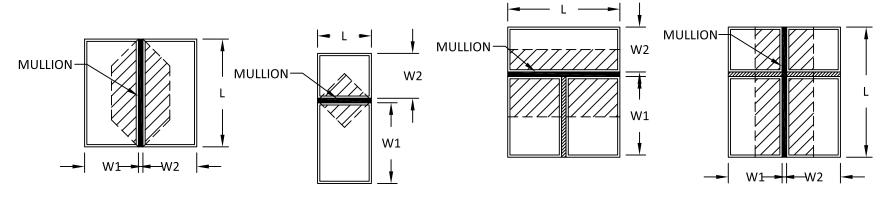
OF 10

DESIGN	I PRESSU	JRE LIM	ITS (PSF	FOR M	ULLION:	1" x 4"	- ONE-W	/AY MUI	LIONS
L - Mull Length				W - Tril	outary W	idth (in)			
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
50.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
58.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
63.0	150.0	150.0	150.0	149.1	138.6	132.4	129.4	129.0	129.0
72.0	150.0	124.7	107.2	95.5	87.4	81.9	78.3	76.3	75.6
84.0	94.5	77.0	65.7	57.9	52.3	48.2	45.3	43.3	41.9
96.0	62.8	51.0	43.2	37.8	33.9	31.0	28.8	27.1	25.9
108.0	43.9	35.5	30.0	26.1	23.3	21.2	19.5	18.3	17.3
120.0	31.8	25.7	21.7	18.8	16.7	15.1	-	-	-
132.0	23.9	19.2	16.2	_	-	_	_	=	-
144.0	18.3	_	_	_	_	_	_	_	-

DESIGN	PRESSU	JRE LIMI	TS (PSF)	FOR MI	JLLION:	1" x 4" -	TWO-W	/AY MU	LLIONS
L - Mull Length				W - Trik	outary W	idth (in)			
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
38.0	150.0	150.0	150.0	150.0	150.0	140.4	126.3	114.8	105.3
50.0	150.0	150.0	150.0	137.1	120.0	106.7	96.0	87.3	80.0
58.0	150.0	150.0	137.9	118.2	103.4	92.0	82.8	75.2	69.0
63.0	150.0	150.0	127.0	108.8	95.2	84.7	76.2	69.3	63.5
72.0	145.1	116.1	96.8	82.9	72.6	64.5	58.1	52.8	48.4
84.0	91.4	73.1	60.9	52.2	45.7	40.6	36.6	33.2	30.5
96.0	61.2	49.0	40.8	35.0	30.6	27.2	24.5	22.3	20.4
108.0	43.0	34.4	28.7	24.6	21.5	19.1	17.2	15.6	-
120.0	31.4	25.1	20.9	17.9	15.7	-	-	-	-
132.0	23.6	18.8	15.7	_	-	_	=	=	_
144.0	18.1	_	_	_	_	_	_	_	_

N PRESS	URE LIM	ITS (PSF	) FOR M	ULLION	WITH ST	EEL REII	NFORCE	MENT:
		1" x 4"	- ONE-V	VAY MU	LLIONS			_
			W - Trit	outary W	idth (in)			
24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
150.0	150.0	150.0	150.0	150.0	148.1	145.5	145.1	145.1
150.0	150.0	148.1	134.5	125.0	118.5	114.3	111.9	111.1
150.0	139.1	121.2	108.8	100.0	93.6	88.9	85.6	83.3
142.9	118.5	102.6	91.4	83.3	77.3	72.7	69.3	66.7
125.0	102.5	86.6	75.5	67.3	61.2	56.4	52.7	49.8
92.0	74.3	62.6	54.4	48.3	43.7	40.1	37.3	35.0
68.9	55.5	46.7	40.5	35.9	32.4	29.6	27.4	25.6
52.9	42.6	35.8	31.0	27.4	24.7	22.5	20.8	19.4
	24.0 150.0 150.0 150.0 150.0 150.0 150.0 142.9 125.0 92.0 68.9	24.0     30.0       150.0     150.0       150.0     150.0       150.0     150.0       150.0     150.0       150.0     150.0       150.0     139.1       142.9     118.5       125.0     102.5       92.0     74.3       68.9     55.5	24.0     30.0     36.0       150.0     150.0     150.0       150.0     150.0     150.0       150.0     150.0     150.0       150.0     150.0     150.0       150.0     150.0     148.1       150.0     139.1     121.2       142.9     118.5     102.6       125.0     102.5     86.6       92.0     74.3     62.6       68.9     55.5     46.7	1" x 4" - ONE-V       W - Trib       24.0     30.0     36.0     42.0       150.0     150.0     150.0     150.0       150.0     150.0     150.0     150.0       150.0     150.0     150.0     150.0       150.0     150.0     150.0     150.0       150.0     150.0     148.1     134.5       150.0     139.1     121.2     108.8       142.9     118.5     102.6     91.4       125.0     102.5     86.6     75.5       92.0     74.3     62.6     54.4       68.9     55.5     46.7     40.5	1" x 4" - ONE-WAY MU W - Tributary W  24.0 30.0 36.0 42.0 48.0 150.0 148.1 134.5 125.0 150.0 139.1 121.2 108.8 100.0 142.9 118.5 102.6 91.4 83.3 125.0 102.5 86.6 75.5 67.3 92.0 74.3 62.6 54.4 48.3 68.9 55.5 46.7 40.5 35.9	1" x 4" - ONE-WAY MULLIONS         W - Tributary Width (in)         24.0       30.0       36.0       42.0       48.0       54.0         150.0       150.0       150.0       150.0       150.0       150.0         150.0       150.0       150.0       150.0       150.0       150.0         150.0       150.0       150.0       150.0       150.0       150.0         150.0       150.0       150.0       150.0       148.1         150.0       150.0       148.1       134.5       125.0       118.5         150.0       139.1       121.2       108.8       100.0       93.6         142.9       118.5       102.6       91.4       83.3       77.3         125.0       102.5       86.6       75.5       67.3       61.2         92.0       74.3       62.6       54.4       48.3       43.7         68.9       55.5       46.7       40.5       35.9       32.4	1" x 4" - ONE-WAY MULLIONS         W - Tributary Width (in)         24.0       30.0       36.0       42.0       48.0       54.0       60.0         150.0       148.1       145.5       148.1       145.5       114.3       150.0       139.1       121.2       108.8       100.0       93.6       88.9         142.9       118.5       102.6       91.4       83.3       77.3       72.7         125.0       102.5       86.6       75.5       67.3       61.2       56.4         92.0       74.3       62.6       54.4       48.3       43.7       40.1         68.9       55.5       46.7       40.5       35.9       32.4       29.6	W - Tributary Width (in)         24.0       30.0       36.0       42.0       48.0       54.0       60.0       66.0         150.0       148.1       145.5       145.1       145.1       145.5       145.1       119.0       118.5       114.3       111.9       150.0       150.0       180.0       93.6       88.9       85.6       85.6

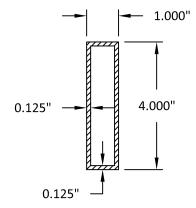
DESIG	N PRESS	URE LIM	IITS (PSF	) FOR M	ULLION	WITH ST	TEEL REII	NFORCE	MENT:
			1" x 4"	- TWO-\	WAY MU	JLLIONS			
L - Mull Length				W - Tril	outary W	idth (in)			
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
38.0	150.0	150.0	150.0	150.0	150.0	140.4	126.3	114.8	105.3
50.0	150.0	150.0	150.0	137.1	120.0	106.7	96.0	87.3	80.0
58.0	150.0	150.0	137.9	118.2	103.4	92.0	82.8	75.2	69.0
63.0	150.0	150.0	127.0	108.8	95.2	84.7	76.2	69.3	63.5
72.0	150.0	133.3	111.1	95.2	83.3	74.1	66.7	60.6	55.6
84.0	142.9	114.3	95.2	81.6	71.4	63.5	57.1	51.9	47.6
96.0	125.0	100.0	83.3	71.4	62.5	55.6	50.0	45.5	41.7
108.0	111.1	88.9	74.1	63.5	55.6	49.4	44.4	40.4	37.0
120.0	90.5	72.4	60.4	51.7	45.3	40.2	36.2	32.9	30.2
132.0	68.0	54.4	45.4	38.9	34.0	30.2	27.2	24.7	22.7
144.0	52.4	41.9	34.9	29.9	26.2	23.3	21.0	19.1	17.5



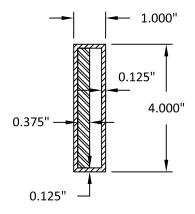
## **ONE-WAY MULLION DIAGRAMS**

## **TWO-WAY MULLION DIAGRAMS**

W1 + W2TRIBUTARY WIDTH =



#### **1" X 4" MULLION** NO REINFORCEMENT



1" X 4" MULLION STEEL REINFORCEMENT

#### **TABLE NOTES:**

- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 3 AND 4 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
- LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
- SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- SEE SHEET 2 FOR SPECIFIC CLIP DIMENSIONS.
- 5. ANCHOR REQUIREMENTS:
  - WOOD: #14 WOOD SCREWS
  - CMU: 1/4" ITW TAPCONS
  - CONCRETE: 1/4" ITW TAPCONS
  - METAL: 1/4" SELF-DRILLING SCREWS (GRADE 5)
- 6. 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 1-1/4" & 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.



EURO-WALL SYSTEMS, LLC 24100 TISEO BOULEVARD PORT CHARLOTTE, FL 33980 PH: 888-989-3876

ALUMINUM TUBE MULLION

1.
BUILDING [
398 E. DANIA BEA.
DANIA BEA

BY DATE REMARKS

AND SHALL NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF BUILDING DROPS, INC. ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER



HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL#: FL26891

DATE: 03.28.17

DWG. BY: CHK. BY: AR/EG

NTS SCALE:

EWS007 DWG. #:

SHEET:



OF 10

Length

38.0

50.0

58.0

63.0

72.0

132.0

DESIGN	N PRESS	URE LIM	IITS (PSF	) FOR M	ULLION	: 1" x 6"	- ONE-V	VAY MU	LLIONS
L - Mull Length				W - Tril	outary W	idth (in)			
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
50.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
58.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
63.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
72.0	150.0	150.0	150.0	150.0	150.0	150.0	148.9	144.5	143.1
84.0	150.0	150.0	149.2	131.0	117.9	108.3	101.3	96.2	92.8
96.0	150.0	133.1	112.6	98.2	87.8	79.9	74.0	69.4	66.0
108.0	129.3	104.4	88.0	76.5	68.0	61.6	56.7	52.8	49.7
120.0	94.7	76.5	64.5	56.0	49.8	45.0	41.3	38.4	36.1
132.0	70.9	57.2	48.1	41.7	37.0	33.3	30.5	28.2	26.4
144.0	54.5	43.9	36.9	31.9	28.2	25.4	23.2	21.4	19.9

DESIGN PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT: 1" x 6" - ONE-WAY MULLIONS

42.0

150.0

150.0

150.0

150.0

150.0

150.0

137.1

118.2

103.9

91.2

76.2

36.0

150.0

150.0

150.0

150.0

150.0

150.0

117.6

105.3

24.0 | 30.0 |

150.0

150.0

150.0

150.0

150.0

150.0

150.0

150.0

150.0

150.0

150.0

150.0

137.1

123.1

130.9 | 105.2

W - Tributary Width (in)

48.0

150.0

150.0

150.0

150.0

150.0

150.0

125.0

107.1

93.8

80.7

67.3

54.0

150.0

150.0

150.0

115.9

98.8

86.0

72.6

60.4

150.0 150.0

140.4 | 133.3

60.0

150.0

150.0

150.0

109.1

80.0

66.2

55.0

				-					
DESIGN	I PRESSI	JRE LIM	ITS (PSF	) FOR M	ULLION:	1" x 6"	- TWO-V	<u>VAY MU</u>	<u>LLIONS</u>
L - Mull Length				W - Tril	outary W	idth (in)			
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
50.0	150.0	150.0	150.0	150.0	150.0	150.0	144.0	130.9	120.0
58.0	150.0	150.0	150.0	150.0	150.0	137.9	124.1	112.9	103.4
63.0	150.0	150.0	150.0	150.0	142.9	127.0	114.3	103.9	95.2
72.0	150.0	150.0	150.0	142.9	125.0	111.1	100.0	90.9	83.3
84.0	150.0	150.0	140.1	120.1	105.1	93.4	84.1	76.4	70.1
96.0	150.0	128.7	107.3	92.0	80.5	71.5	64.4	58.5	53.6
108.0	127.2	101.7	84.8	72.7	63.6	56.5	50.9	46.2	42.4
120.0	94.2	75.3	62.8	53.8	47.1	41.8	37.7	34.2	31.4
132.0	70.7	56.6	47.2	40.4	35.4	31.4	28.3	25.7	23.6
144.0	54.5	43.6	36.3	31.1	27.2	24.2	21.8	19.8	18.2

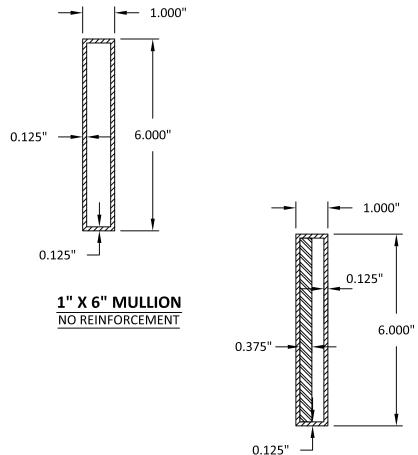
96.0	150.0	128.7	107.3	92.0	80.5	71.5	64.4	58.5	53.6		
108.0	127.2	101.7	84.8	72.7	63.6	56.5	50.9	46.2	42.4		
120.0	94.2	75.3	62.8	53.8	47.1	41.8	37.7	34.2	31.4		
132.0	70.7	56.6	47.2	40.4	35.4	31.4	28.3	25.7	23.6		
144.0	54.5	43.6	36.3	31.1	27.2	24.2	21.8	19.8	18.2		
DESIG	N PRESS	N PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT:  1" x 6" - TWO-WAY MULLIONS									
L - Mull Length				W - Tril	outary W	idth (in)					
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0		
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
50.0	150.0	150.0	150.0	150.0	150.0	150.0	144.0	130.9	120.0		
58.0	150.0	150.0	150.0	150.0	150.0	137.9	124.1	112.9	103.4		
63.0	150.0	150.0	150.0	150.0	142.9	127.0	114.3	103.9	95.2		
72.0	150.0	150.0	150.0	142.9	125.0	111.1	100.0	90.9	83.3		
84.0	150.0	150.0	142.9	122.4	107.1	95.2	85.7	77.9	71.4		
96.0	150.0	150.0	125.0	107.1	93.8	83.3	75.0	68.2	62.5		
108.0	150.0	133.3	111.1	95.2	83.3	74.1	66.7	60.6	55.6		
120.0	150.0	120.0	100.0	85.7	75.0	66.7	60.0	54.5	50.0		

60.6

55.6

54.5

49.6



1" X 6" MULLION STEEL REINFORCEMENT

## MULLION-MULLION-MULLION -W2 W1

66.0 72.0

150.0 | 150.0

150.0 | 150.0

150.0 150.0

150.0 | 150.0

150.0 | 150.0

128.3 | 125.0

103.9 | 100.0

70.7

57.0

**132.0** | 136.4 | 109.1

100.0

87.3

75.2

61.2

50.7

## **ONE-WAY MULLION DIAGRAMS**

## TWO-WAY MULLION DIAGRAMS

68.2

90.9

77.9

W1 + W2 TRIBUTARY WIDTH =

#### **TABLE NOTES:**

- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 3 AND 4 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
- LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
- SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- SEE SHEET 2 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)
- 6. 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 1-1/4" & 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.



EURO-WALL SYSTEMS, LLC 24100 TISEO BOULEVARD PORT CHARLOTTE, FL 33980 PH: 888-989-3876

INC. UILDING I 398 E. DANIA BEA DANIA BEAY

ALUMINUM TUBE MULLION

REMARKS

BY DATE

AND SHALL NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF BUILDING DROPS, INC ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER



HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLYD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL#: FL26891

03.28.17 DATE:

DWG. BY: CHK. BY: AR/EG

NTS SCALE:

EWS007 DWG. #:

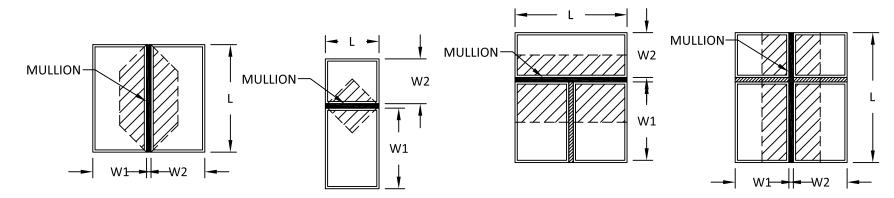
SHEET:

OF 10

DESIGN	DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 2" x 6" - TWO-WAY MULLIONS												
L - Mull Length		W - Tributary Width (in)											
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0				
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
50.0	150.0	150.0	150.0	150.0	150.0	150.0	144.0	130.9	120.0				
58.0	150.0	150.0	150.0	150.0	150.0	137.9	124.1	112.9	103.4				
63.0	150.0	150.0	150.0	150.0	142.9	127.0	114.3	103.9	95.2				
72.0	150.0	150.0	150.0	142.9	125.0	111.1	100.0	90.9	83.3				
84.0	150.0	150.0	142.9	122.4	107.1	95.2	85.7	77.9	71.4				
96.0	150.0	150.0	125.0	107.1	93.8	83.3	75.0	68.2	62.5				
108.0	150.0	133.3	111.1	95.2	83.3	74.1	66.7	60.6	55.6				
120.0	127.4	101.9	84.9	72.8	63.7	56.6	50.9	46.3	42.5				
132.0	95.7	76.6	63.8	54.7	47.8	42.5	38.3	34.8	31.9				
144.0	73.7	59.0	49.1	42.1	36.9	32.8	29.5	26.8	24.6				

DESIG	DESIGN PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT:												
L - Mull Length	2" x 6" - ONE-WAY MULLIONS  W - Tributary Width (in)												
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0				
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
50.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
58.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
63.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
72.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
84.0	150.0	150.0	150.0	150.0	150.0	140.4	133.3	128.3	125.0				
96.0	150.0	150.0	150.0	137.1	125.0	115.9	109.1	103.9	100.0				
108.0	150.0	150.0	133.3	118.2	107.1	98.8	92.3	87.3	83.3				
120.0	150.0	137.1	117.6	103.9	93.8	86.0	80.0	75.2	71.4				
132.0	150.0	123.1	105.3	92.7	83.3	76.2	70.6	66.1	62.5				
144.0	136.4	111.6	95.2	83.6	75.0	68.4	63.2	59.0	55.6				

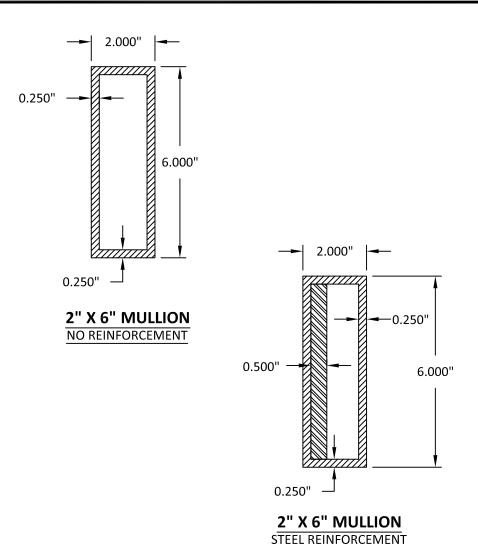
DESIGN	DESIGN PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT:												
L - Mull Length		<b>2" x 6" - TWO-WAY MULLIONS</b> W - Tributary Width (in)											
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0				
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
50.0	150.0	150.0	150.0	150.0	150.0	150.0	144.0	130.9	120.0				
58.0	150.0	150.0	150.0	150.0	150.0	137.9	124.1	112.9	103.4				
63.0	150.0	150.0	150.0	150.0	142.9	127.0	114.3	103.9	95.2				
72.0	150.0	150.0	150.0	142.9	125.0	111.1	100.0	90.9	83.3				
84.0	150.0	150.0	142.9	122.4	107.1	95.2	85.7	77.9	71.4				
96.0	150.0	150.0	125.0	107.1	93.8	83.3	75.0	68.2	62.5				
108.0	150.0	133.3	111.1	95.2	83.3	74.1	66.7	60.6	55.6				
120.0	150.0	120.0	100.0	85.7	75.0	66.7	60.0	54.5	50.0				
132.0	136.4	109.1	90.9	77.9	68.2	60.6	54.5	49.6	45.5				
144.0	125.0	100.0	83.3	71.4	62.5	55.6	50.0	45.5	41.7				



## **ONE-WAY MULLION DIAGRAMS**

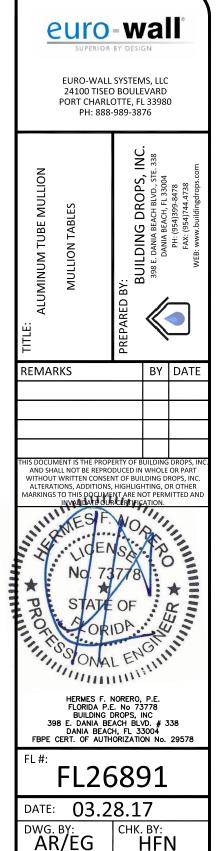
**TWO-WAY MULLION DIAGRAMS** 

W1 + W2 TRIBUTARY WIDTH =



#### **TABLE NOTES:**

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- LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
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  - WOOD: #14 WOOD SCREWS
  - CMU: 1/4" ITW TAPCONS
  - CONCRETE: 1/4" ITW TAPCONS
  - METAL: 1/4" SELF-DRILLING SCREWS (GRADE 5)
- 6. INSTALLATION SUBSTRATES:
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  - 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.



NTS

**EWS007** 

SCALE:

DWG. #:

SHEET:

OF 10

DESIG	N PRESS	URE LIM	IITS (PSF	) FOR M	IULLION	: 2" x 8"	- ONE-V	VAY MU	LLIONS				
L - Mul Length	1	W - Tributary Width (in)											
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0				
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
50.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
58.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
63.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
72.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
84.0	150.0	150.0	150.0	150.0	150.0	140.4	133.3	128.3	125.0				
96.0	150.0	150.0	150.0	137.1	125.0	115.9	109.1	103.9	100.0				
108.0	150.0	150.0	133.3	118.2	107.1	98.8	92.3	87.3	83.3				
120.0	150.0	137.1	117.6	103.9	93.8	86.0	80.0	75.2	71.4				
132.0	150.0	123.1	105.3	92.7	83.3	76.2	70.6	66.1	62.5				
144.0	136.4	111.6	95.2	83.6	75.0	68.4	63.2	59.0	55.6				

DESIGN	DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 2" x 8" - TWO-WAY MULLIONS												
L - Mull Length		W - Tributary Width (in)											
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0				
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
50.0	150.0	150.0	150.0	150.0	150.0	150.0	144.0	130.9	120.0				
58.0	150.0	150.0	150.0	150.0	150.0	137.9	124.1	112.9	103.4				
63.0	150.0	150.0	150.0	150.0	142.9	127.0	114.3	103.9	95.2				
72.0	150.0	150.0	150.0	142.9	125.0	111.1	100.0	90.9	83.3				
84.0	150.0	150.0	142.9	122.4	107.1	95.2	85.7	77.9	71.4				
96.0	150.0	150.0	125.0	107.1	93.8	83.3	75.0	68.2	62.5				
108.0	150.0	133.3	111.1	95.2	83.3	74.1	66.7	60.6	55.6				
120.0	150.0	120.0	100.0	85.7	75.0	66.7	60.0	54.5	50.0				
132.0	136.4	109.1	90.9	77.9	68.2	60.6	54.5	49.6	45.5				
144.0	125.0	100.0	83.3	71.4	62.5	55.6	50.0	45.5	41.7				

DESIG	DESIGN PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT:												
	2" x 8" - ONE-WAY MULLIONS												
L - Mull		W - Tributary Width (in)											
Length (in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0				
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
50.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
58.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
63.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
72.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
84.0	150.0	150.0	150.0	150.0	150.0	140.4	133.3	128.3	125.0				
96.0	150.0	150.0	150.0	137.1	125.0	115.9	109.1	103.9	100.0				
108.0	150.0	150.0	133.3	118.2	107.1	98.8	92.3	87.3	83.3				
120.0	150.0	137.1	117.6	103.9	93.8	86.0	80.0	75.2	71.4				
132.0	150.0	123.1	105.3	92.7	83.3	76.2	70.6	66.1	62.5				
144.0	136.4	111.6	95.2	83.6	75.0	68.4	63.2	59.0	55.6				

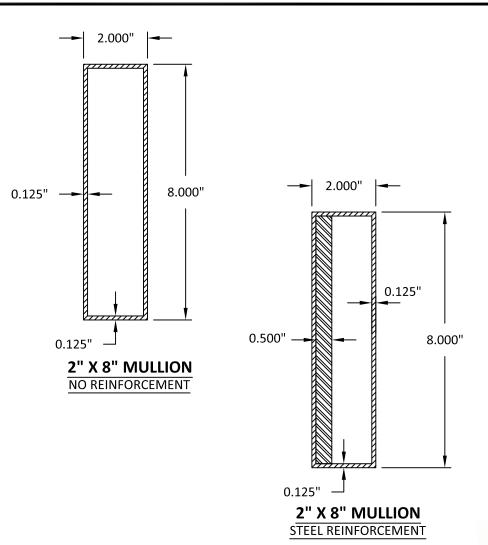
DESIG	DESIGN PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT: 2" x 8" - TWO-WAY MULLIONS												
L - Mull Length		W - Tributary Width (in)											
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0				
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
50.0	150.0	150.0	150.0	150.0	150.0	150.0	144.0	130.9	120.0				
58.0	150.0	150.0	150.0	150.0	150.0	137.9	124.1	112.9	103.4				
63.0	150.0	150.0	150.0	150.0	142.9	127.0	114.3	103.9	95.2				
72.0	150.0	150.0	150.0	142.9	125.0	111.1	100.0	90.9	83.3				
84.0	150.0	150.0	142.9	122.4	107.1	95.2	85.7	77.9	71.4				
96.0	150.0	150.0	125.0	107.1	93.8	83.3	75.0	68.2	62.5				
108.0	150.0	133.3	111.1	95.2	83.3	74.1	66.7	60.6	55.6				
120.0	150.0	120.0	100.0	85.7	75.0	66.7	60.0	54.5	50.0				
132.0	136.4	109.1	90.9	77.9	68.2	60.6	54.5	49.6	45.5				
144.0	125.0	100.0	83.3	71.4	62.5	55.6	50.0	45.5	41.7				

## MULLION MULLION-MULLION · MULLION · W2 W1

## **ONE-WAY MULLION DIAGRAMS**

## **TWO-WAY MULLION DIAGRAMS**

W1 + W2TRIBUTARY WIDTH =



#### **TABLE NOTES:**

- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 3 AND 4 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
- LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
- SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- SEE SHEET 2 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)
- 6. 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 1-1/4" & 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.

euro-wall EURO-WALL SYSTEMS, LLC 24100 TISEO BOULEVARD PORT CHARLOTTE, FL 33980 PH: 888-989-3876 ALUMINUM TUBE MULLION UILDING I 398 E. DANIA BEA DANIA BEAY BY DATE **REMARKS** 

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398 E. DANIA BEACH BLYD. # 338
DANIA BEACH, FL 33004
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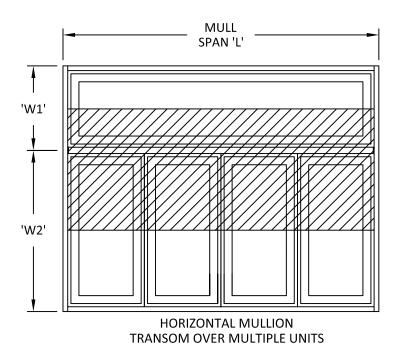
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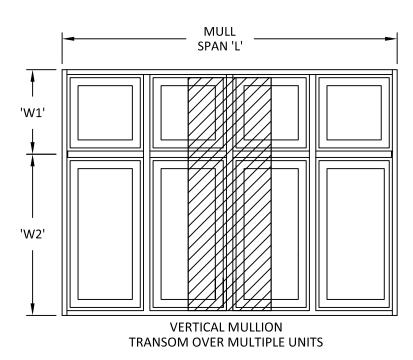
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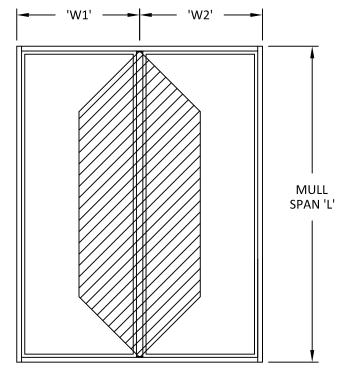
OF 10

#### **EXAMPLES OF TWO-WAY MULLION ASSEMBLIES**

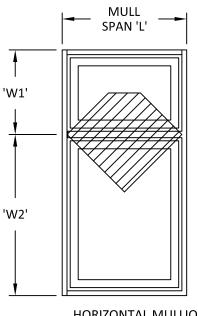




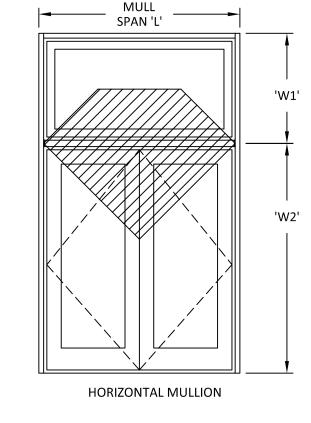
### **EXAMPLES OF ONE-WAY MULLION ASSEMBLIES**

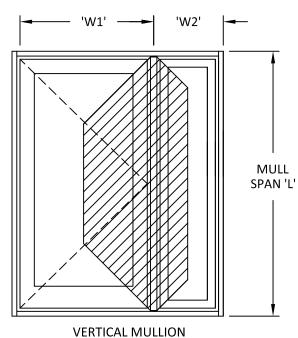






HORIZONTAL MULLION





PIVOT DOOR W/ SIDELITE

- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CONFIGURATIONS NOT SPECIFICALLY SHOWN MAY BE EXTRAPOLATED FROM THOSE SHOWN.
- IF THE LOADING TYPE CANNOT BE DETERMINED, USE TWO-WAY ASSEMBLY CONFIGURATION VALUES.
- FENESTRATION PRODUCTS SHALL BE ANCHORED AS PER SEPARATE APPROVAL.



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