EURO-WALL, LLC

ALUMINUM TUBE MULLION

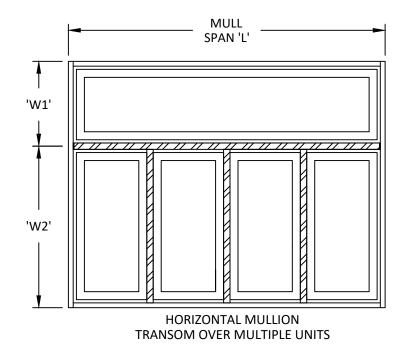
GENERAL NOTES:

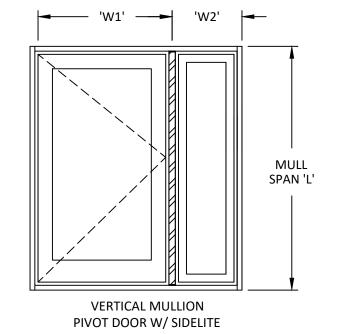
- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE EXCLUDING HVHZ.
- 2. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS IN WIND ZONE 3 OR LESS. INDIVIDUAL UNITS ATTACHED TO MULLIONS MUST BE IMPACT 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.
- 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.
- 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.
- 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)
- MULLIONS MAY BE USED WITH ANY APPROVED FENESTRATION PRODUCT, UNDER SEPARATE APPROVAL.
- 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:

- DETERMINE REQUIRED DESIGN PRESSURE FOR OPENING.
- CHOOSE A MULLION THAT PROPERLY FITS THE FENESTRATION PRODUCT.
- 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.
- 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
7	-	MULLION TABLES
8	-	MULLION TABLES
9	-	MULLION TABLES
10	-	MULLION ASSEMBLIES





euro-wall

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ALUMINUM TUBE MULLION INSTALLATION {

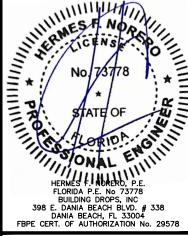
REMARKS

DROPS, UILDING I 398 E. DANIA BEA DANIA BEA(PH: (954) FAX: (954)

COMPANY NAME UPD. SH 9.29.2

AND SHALL NOT BE REPRODUCED IN WHOLE OR PART

WITHOUT WRITTEN CONSENT OF BUILDING DROPS INC ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND



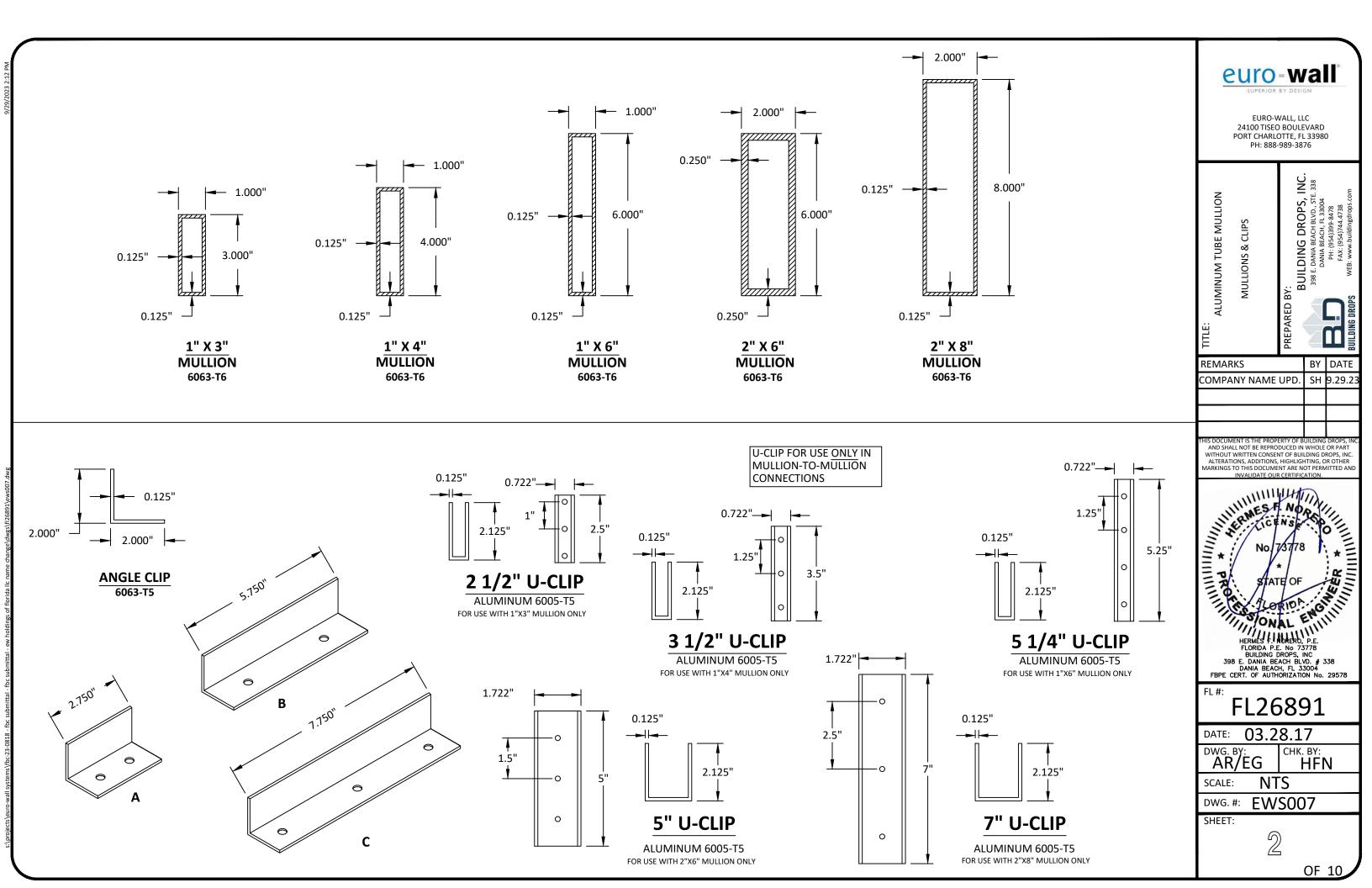
FL26891

03.28.17 DATE: CHK. BY:

AR/EG HFN NTS SCALE:

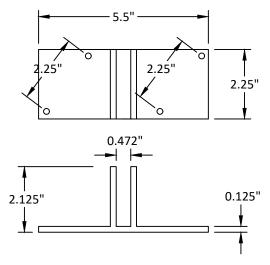
EWS007 DWG. #:

SHEET:



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

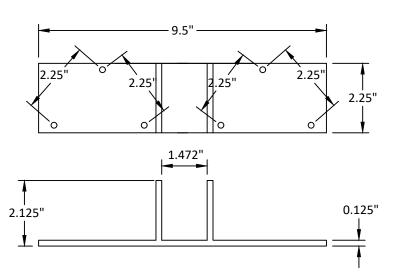
ALUMINUM 6063-T6 FOR USE WITH 1"X3" AND 1"X4" MULLIONS ONLY



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

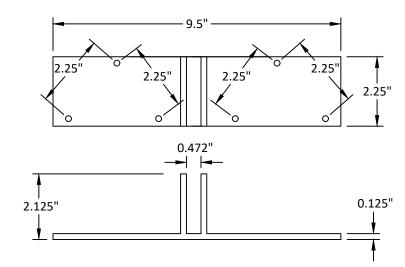
ALUMINUM 6063-T6

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



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

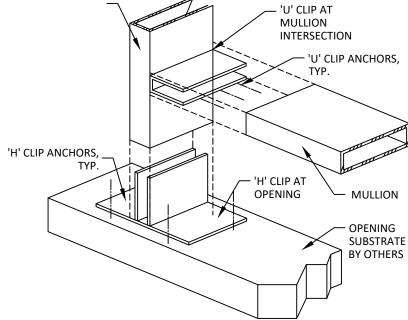
ALUMINUM 6063-T6 FOR USE WITH 1"X3" AND 1"X4" MULLIONS ONLY



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

ALUMINUM 6063-T6

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



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

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.



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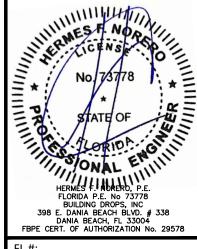
MULLIONS & CLIPS

ALUMINUM TUBE MULLION

BUILDING DROPS, 1 398 E. DANIA BEACH BLVD., STE. DANIA BEACH, It. 33004 PH: (954)399-8478 FAX: (954)744.4738

REMARKS COMPANY NAME UPD. SH 9.29.2

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03.28.17 DATE: CHK. BY:

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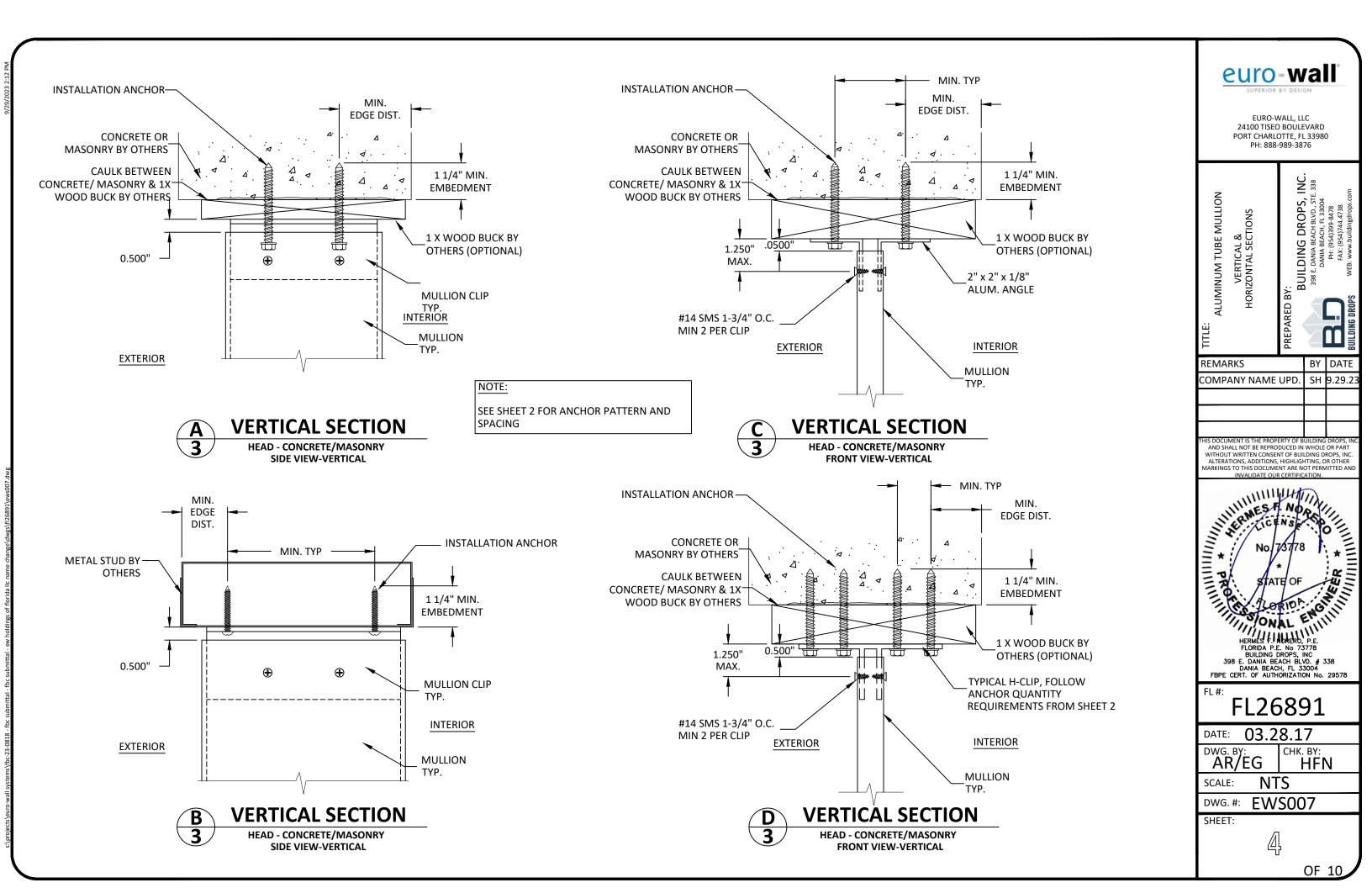
NTS SCALE:

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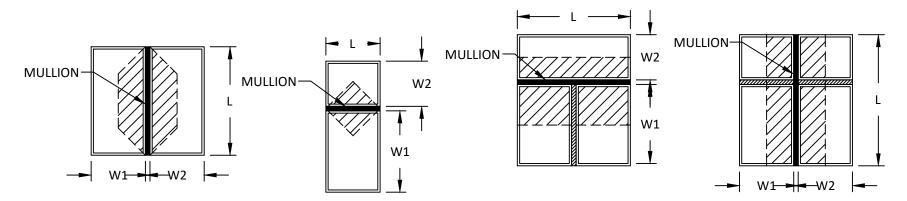


L - Mull Length		W - Tributary Width (in)											
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0				
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
50.0	150.0	150.0	148.4	137.7	133.0	132.7	132.7	132.7	132.7				
58.0	138.9	115.7	101.3	92.3	87.0	84.3	83.7	83.7	83.7				
63.0	107.2	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	-	-	-	-	-	-	-				
400.0													

DESIGN	DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 1" x 3" - 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	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	1	-	-	-	-	-	-			
120.0		-	-	-	-	-	-	-	-			
132.0	-	-	-	-	-	-	-	-	-			
144.0	-	-	-	-	-	-	-	-	-			

DESIGN	DESIGN PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT: 1" x 3" - ONE-WAY MULLIONS												
L - Mull Length		W - Tributary Width (in)											
(in)	24.0	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	0.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0											
58.0	150.0	0.0 150.0 150.0 136.0 127.3 122.9 122.0 122.0 122.0											
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	-	-	-	•	ı				
144.0	21.2	17.0	-	•	-	-	-		-				

DESIG	DESIGN PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT: 1" x 3" - 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	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	-	-	-	-	-	-	-				



TWO-WAY MULLION DIAGRAMS

W1 + W2 TRIBUTARY WIDTH =

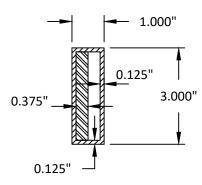
0.125"

1" X 3" MULLION NO REINFORCEMENT

0.125"

1.000"

3.000"



1" X 3" MULLION STEEL REINFORCEMENT

TABLE NOTES:

- 1. 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, LLC 24100 TISEO BOULEVARD PORT CHARLOTTE, FL 33980 PH: 888-989-3876

ALUMINUM TUBE MULLION

DROPS, SACH BLVD., STE ACH, FL 33004 UILDING 1 398 E. DANIA BEA DANIA BEA

REMARKS BY DATE COMPANY NAME UPD. SH 9.29.2

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FL #: FL26891

03.28.17 DATE:

DWG. BY: CHK. BY: AR/EG HFN

SCALE: NTS

EWS007 DWG. #:

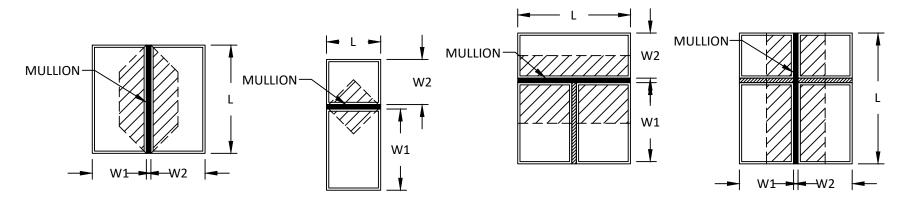
SHEET:

DESIGN	DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 1" x 4" - ONE-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	150.0	150.0	150.0				
58.0	150.0	.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	DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 1" x 4" - 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												
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	-	-	-	-	-	-	-	-				

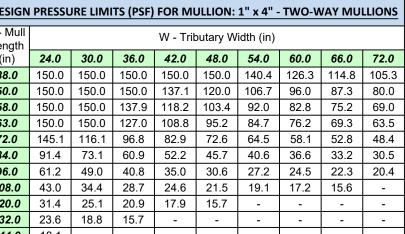
DESIG	DESIGN PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT:												
L - Mull Length		1" x 4" - ONE-WAY MULLIONS W - Tributary Width (in)											
(in)	24.0	24.0 30.0 36.0 42.0 48.0 54.0 60.0 66.0 72.0											
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0				
50.0	150.0	150.0 150.0 <td< th=""></td<>											
58.0	150.0	50.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0											
63.0	150.0	150.0	150.0	150.0	150.0	148.1	145.5	145.1	145.1				
72.0	150.0	150.0	148.1	134.5	125.0	118.5	114.3	111.9	111.1				
84.0	150.0	139.1	121.2	108.8	100.0	93.6	88.9	85.6	83.3				
96.0	142.9	118.5	102.6	91.4	83.3	77.3	72.7	69.3	66.7				
108.0	125.0	102.5	86.6	75.5	67.3	61.2	56.4	52.7	49.8				
120.0	92.0	74.3	62.6	54.4	48.3	43.7	40.1	37.3	35.0				
132.0	68.9	55.5	46.7	40.5	35.9	32.4	29.6	27.4	25.6				
144.0	52.9	42.6	35.8	31.0	27.4	24.7	22.5	20.8	19.4				

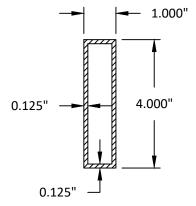
DESIG	DESIGN PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT:													
			1" x 4"	- TWO-\	WAY MU	JLLIONS								
L - Mull Length		W - Tributary Width (in)												
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0					
38.0	150.0	150.0	150.0	150.0	150.0	140.4	126.3	114.8	105.3					
50.0	150.0	150.0	150.0	137.1	120.0	106.7	96.0	87.3	80.0					
58.0	150.0	50.0 150.0 137.9 118.2 103.4 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					



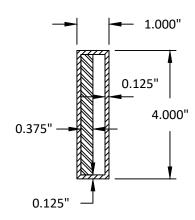
TWO-WAY MULLION DIAGRAMS

W1 + W2 TRIBUTARY WIDTH =





1" X 4" MULLION NO REINFORCEMENT



1" X 4" MULLION STEEL REINFORCEMENT

TABLE NOTES:

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- SEE SHEET 2 FOR SPECIFIC CLIP DIMENSIONS.
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 - 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, LLC 24100 TISEO BOULEVARD PORT CHARLOTTE, FL 33980 PH: 888-989-3876

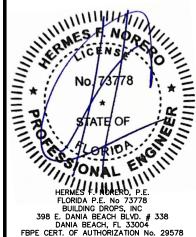
MULLION TABLES

ALUMINUM TUBE MULLION

DROPS, SACH BLVD., STE ACH, FL 33004 UILDING I 398 E. DANIA BEA DANIA BEA(PH: (954) FAX: (954)

REMARKS BY DATE COMPANY NAME UPD. SH 9.29.2

AND SHALL NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF BUILDING DROPS INC ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND



FL #: FL26891

03.28.17 DATE:

DWG. BY: CHK. BY: AR/EG HFN

SCALE: NTS **EWS007** DWG. #:

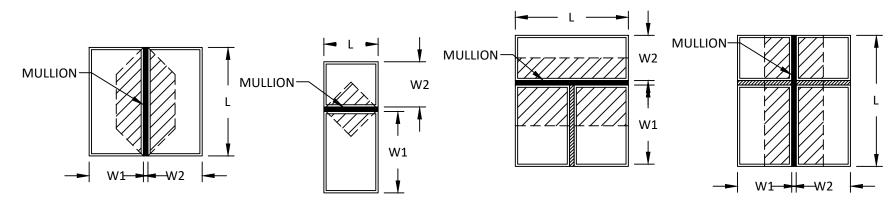
SHEET:



	DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 1" x 6" - TWO-WAY MULLIONS												
DESIGN	I PRESSU	JRE LIM	ITS (PSF)	FOR M	ULLION:	1" x 6"	- 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	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				

DESIGN PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT:														
DESIG	1" x 6" - ONE-WAY MULLIONS													
L - Mull Length		W - Tributary Width (in)												
(in)	24.0	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	50.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0												
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	70.7					
132.0	150.0	123.1	105.3	91.2	80.7	72.6	66.2	61.2	57.0					
144.0	130.9	105.2	88.3	76.2	67.3	60.4	55.0	50.7	47.1					

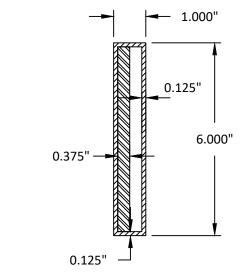
DESIGN	N PRESS	URE LIM) FOR M			TEEL REI	NFORCE	MENT:					
L - Mull Length		1" x 6" - TWO-WAY MULLIONS W - Tributary Width (in)												
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0					
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0					
50.0	150.0	150.0	150.0	150.0	150.0	150.0	144.0	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					



TWO-WAY MULLION DIAGRAMS

W1 + W2 TRIBUTARY WIDTH =

0.125" 0.125" 1" X 6" MULLION



1" X 6" 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.
- ANCHOR REQUIREMENTS:
 - WOOD: #14 WOOD SCREWS

1.000'

6.000"

NO REINFORCEMENT

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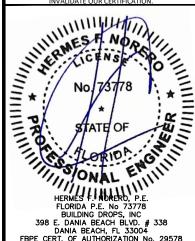
EURO-WALL, LLC 24100 TISEO BOULEVARD PORT CHARLOTTE, FL 33980 PH: 888-989-3876

DROPS, ACH BLVD., STE ACH, FL 33004 UILDING I 398 E. DANIA BEA DANIA BEA(PH: (954) FAX: (954)

ALUMINUM TUBE MULLION

REMARKS BY DATE SH 9.29.2 COMPANY NAME UPD.

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FL #: FL26891

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DWG. BY: CHK. BY: AR/EG HFN

SCALE: NTS **EWS007** DWG. #:

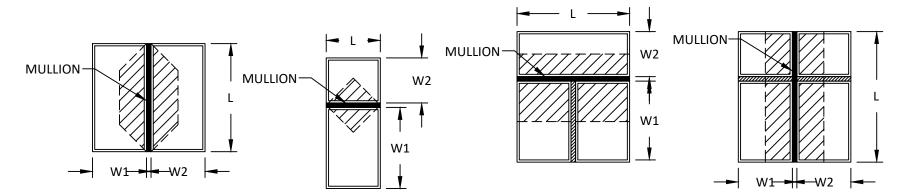
SHEET:

$\underline{\text{DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 2"} \times 6" - \text{ONE-WAY MULLIONS}}$											
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	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	144.2	121.9	106.2	94.7	86.0	79.4	74.2	70.1		
120.0	129.4	104.5	88.1	76.5	68.0	61.5	56.5	52.5	49.3		
132.0	96.9	78.1	65.7	57.0	50.5	45.5	41.7	38.6	36.1		
144.0	74.5	60.0	50.4	43.6	38.6	34.7	31.7	29.2	27.2		

DESIGN	PRESSU	JRE LIM	ITS (PSF)	FOR M	ULLION:	2" x 6"	- TWO-V	VAY MU	LLIONS		
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		

DESIGN	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	N PRESS	URE LIM	IITS (PSF	,			TEEL REI	NFORCE	MENT:				
	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	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				



TWO-WAY MULLION DIAGRAMS

W1 + W2 TRIBUTARY WIDTH =

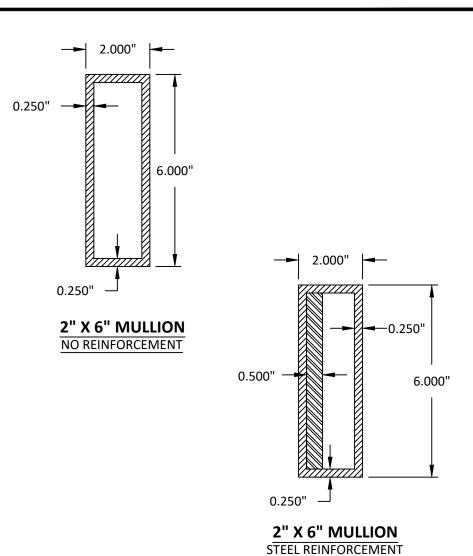


TABLE NOTES:

- 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:
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HERMES F. INDRERO, 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 HFN SCALE: NTS

EWS007 DWG. #:

SHEET:

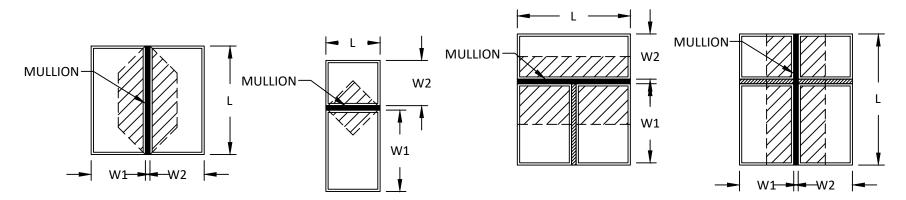


DESIGN	DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 2" x 8" - ONE-WAY MULLIONS											
L - Mull Length		W - Tributary Width (in)										
(in)	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0			
38.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0			
50.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	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	I PRESSU	JRE LIM	ITS (PSF)	FOR M	ULLION:	2" x 8"	- TWO-V	VAY MU	LLIONS		
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		
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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		

DESIGN PRESSURE LIMITS (PSF) FOR MULLION WITH STEEL REINFORCEMENT:											
2" x 8" - ONE-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	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				



TWO-WAY MULLION DIAGRAMS

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

TABLE NOTES:

1. SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 3 AND 4 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.

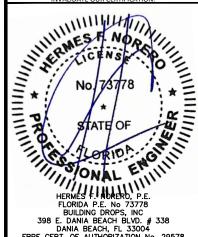
STEEL REINFORCEMENT

- 2. LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
- 3. SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- 4. 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.
 - <u>CONCRETE ANCHORS</u> 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.



REMARKS BY DATE
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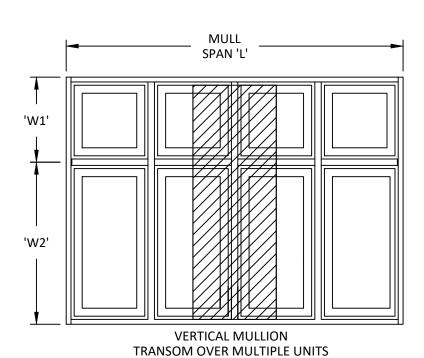
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SCALE: NTS

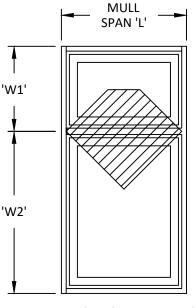
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SHEET:



MULL SPAN 'L'

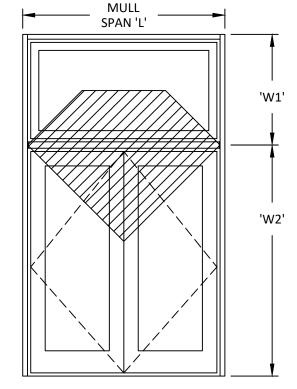




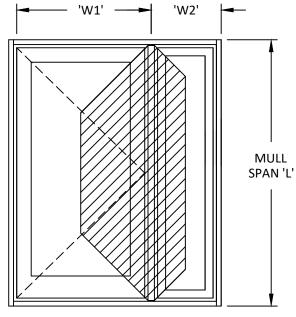
HORIZONTAL MULLION

VERTICAL MULLION PIVOT DOOR W/ SIDELITE

EXAMPLES OF ONE-WAY MULLION ASSEMBLIES



HORIZONTAL MULLION



- 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.



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

ALUMINUM TUBE MULLION

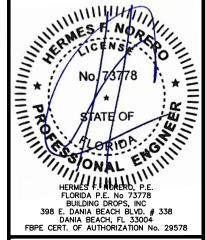
MULLION ASSEMBLIES

DROPS, STE ACH BLVD., STE ACH, FL 33004

BUILDING E 398 E. DANIA BEAC DANIA BEAC PH: (954) FAX: (954)

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