

MILLWORK ARTISANS

CLIPPED MULLION

(WZ3)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA 450-20
 - 8TH EDITION FBC SECTION 1709.8
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONES 3 OR LESS. APPROVED IMPACT SYSTEM **IS** REQUIRED IN WIND ZONE 4.
- MULLION MATERIAL:
 - CARBON STEEL (A36 Min. Fy = 34 KSI, Fu = 52 ksi)
 - STAINLESS STEEL (AISI304/316, Min. Fy = 30 KSI, Fu = 75 KSI)
- DISSIMILAR METALS INCLUDING FASTENERS SHALL BE PROTECTED FROM GALVANIC CORROSION IN ACCORDANCE WITH FBC REQUIREMENTS.
- MULL ASSEMBLIES ARE QUALIFIED FOR TWO OR MORE UNITS PER OPENING IN THE FOLLOWING CONFIGURATION:
 - "ONE WAY" - RIBBON OR STACKED MULLIONS
 - "TWO WAY" - 'X' OR 'T' MULLIONS.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE 1X BUCKING, SHEATHING, & WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
 - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM WALL THICKNESS OF 54 MILS (16 GA.) WHEN THROUGH GUSSET INSTALLATION.
 - ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5)

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL AND INSTALLATION NOTES
2	MULL ASSEMBLY SECTION
3	STANDARD INSTALLATION - WOOD & METAL STUD SUBSTRATES
4	STANDARD INSTALLATION - CONCRETE & GROUT FILLED CMU SUBSTRATES
5	WELD PLATE AND DEFLECTION ANCHOR INSTALLATIONS
6	1/2" X 3" ONE-WAY/TWO-WAY DESIGN PRESSURE TABLE
7	1/2" X 4" ONE-WAY DESIGN PRESSURE TABLE
8	1/2" X 4" TWO-WAY DESIGN PRESSURE TABLE
9	1/2" X 5" ONE-WAY DESIGN PRESSURE TABLE
10	1/2" X 5" TWO-WAY DESIGN PRESSURE TABLE
11	1/2" X 6" ONE-WAY DESIGN PRESSURE TABLE
12	1/2" X 6" TWO-WAY DESIGN PRESSURE TABLE
13	1/2" X 6.5" ONE-WAY DESIGN PRESSURE TABLE
14	1/2" X 6.5" TWO-WAY DESIGN PRESSURE TABLE

WIND ZONE	MISSILE IMPACT RATING
WIND ZONE 3 OR LESS	IMPACT RATED
WIND ZONE 4	NOT IMPACT RATED

MULLING INSTRUCTIONS:

- STEP 1: ESTABLISH MULL STIFFENER THICKNESS AND DEPTH.
- STEP 2: VERIFY MULL ASSEMBLY CONSTRUCTION FROM SHEET 2
- STEP 3: DETERMINE ALLOWABLE LOAD OF MULL ASSEMBLY FROM APPLICABLE LOAD TABLE, REFER TO SHEETS 6-14
- STEP 4: INSTALL MULLION BASED ON APPLICABLE SPECIFICATIONS & DETAILS SHOWN ON SHEETS 3-5.



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TITLE:

CLIPPED MULLION
(WZ3)

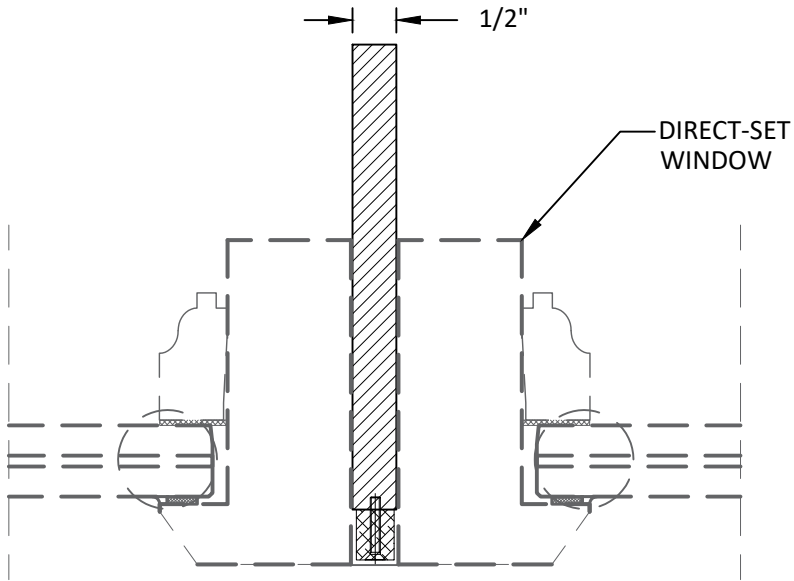
GENERAL AND
INSTALLATION NOTES

PREPARED BY:

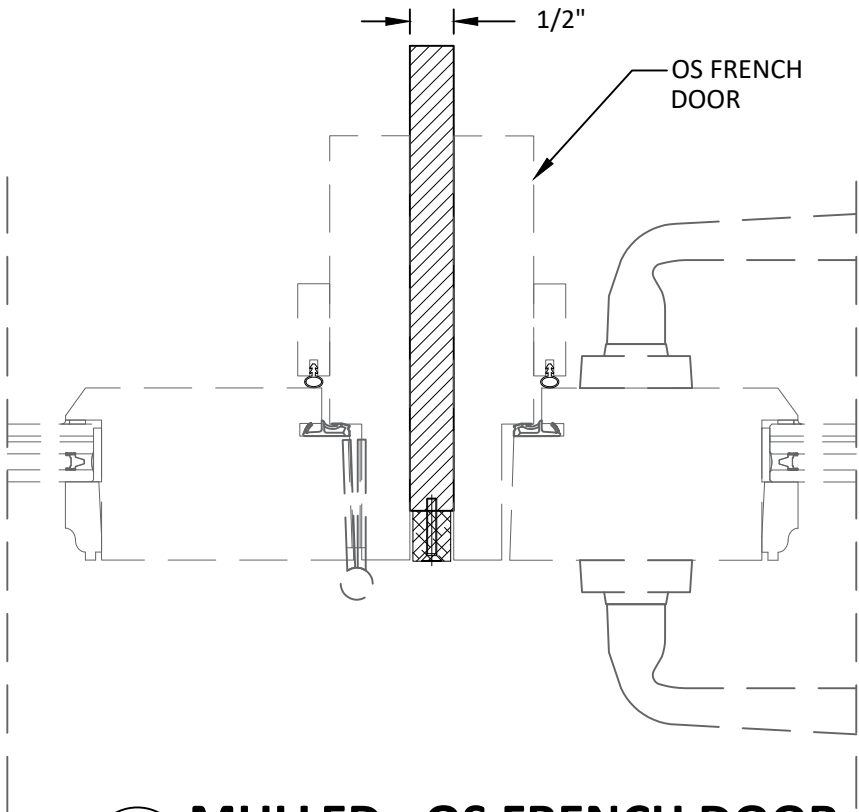
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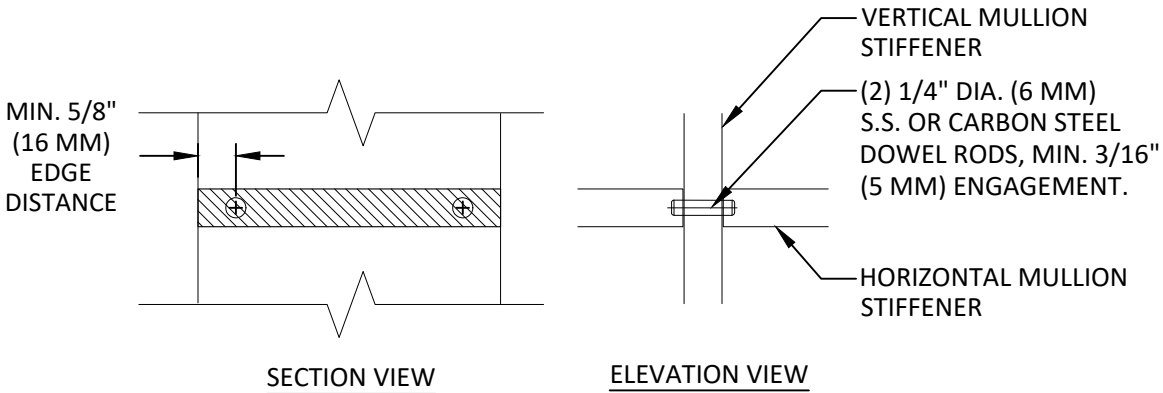
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HERMES F. NORERO, P.E. FLORIDA PROFESSIONAL ENGINEER BUILDING DROPS, INC. 1900 NE MIAMI CT, SUITE 2-15 MIAMI, FL 33132 FBPE CERT. OF AUTHORIZATION No. 29578		
FL #: FL47465		
DATE: 03.18.2025		
DWG. BY: FB	CHK. BY: HFN	
SCALE: NTS		
DWG. #: MWA003		
SHEET: 1 OF 14		



A
2 **MULLED - FIXED WINDOW**
VERTICAL OR HORIZONTAL MULL
TYPICAL STIFFENER DETAIL



B
2 **MULLED - OS FRENCH DOOR**
VERTICAL OR HORIZONTAL MULL
TYPICAL STIFFENER DETAIL



C
2 **'X' CONNECTION**
STIFFENER INTERSECTION
TYP. TWO WAY MULL JOINING DETAILS

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TITLE:
CLIPPED MULLION (WZ3)
MULL ASSEMBLY SECTIONS & INTERSECTION DETAILS

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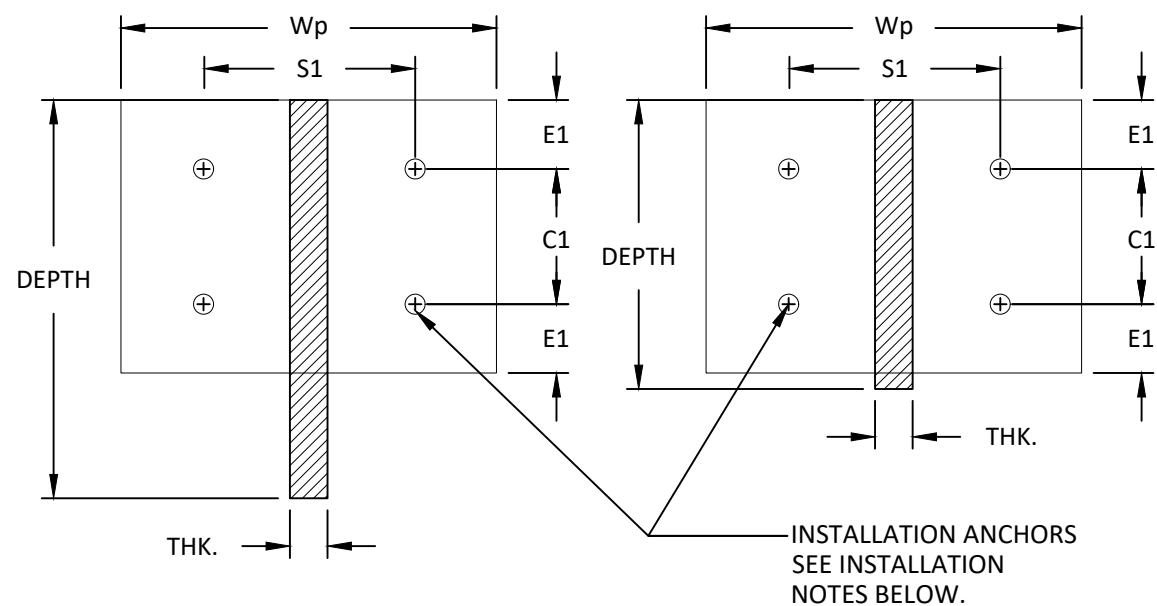
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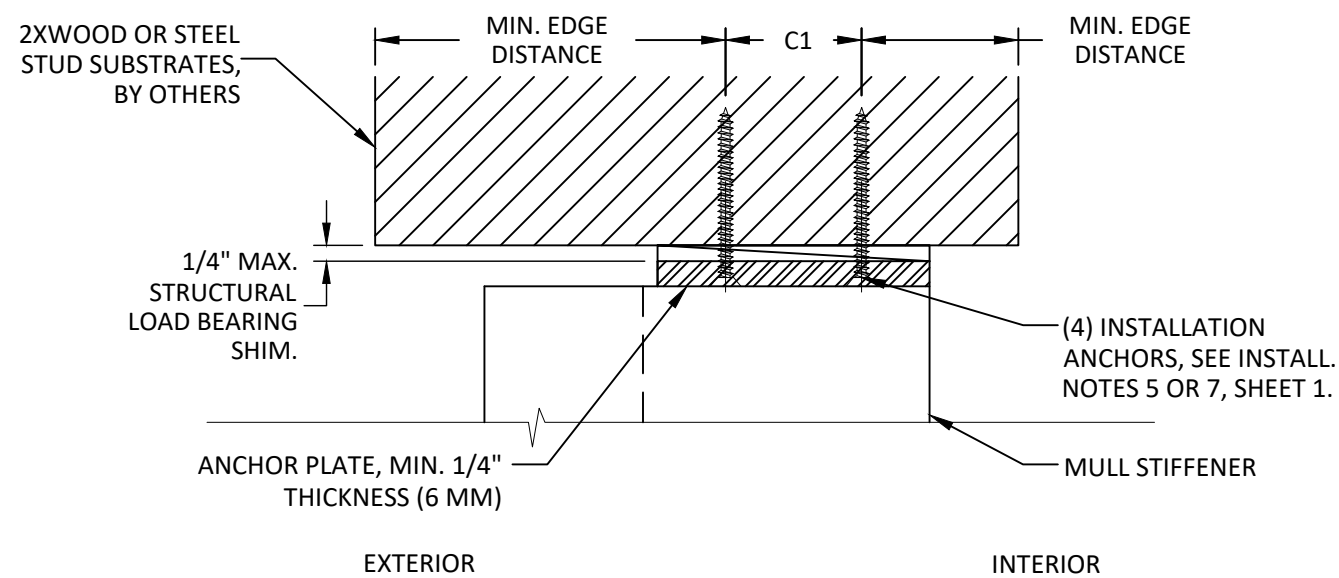
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SHEET:	2



A3 HORIZONTAL SECTION

TYP. ANCHOR DETAILS
WOOD/STEEL STUD SUBSTRATES

**TYP. ANCHOR DETAILS
WOOD/STEEL STUD SUBSTRATES**



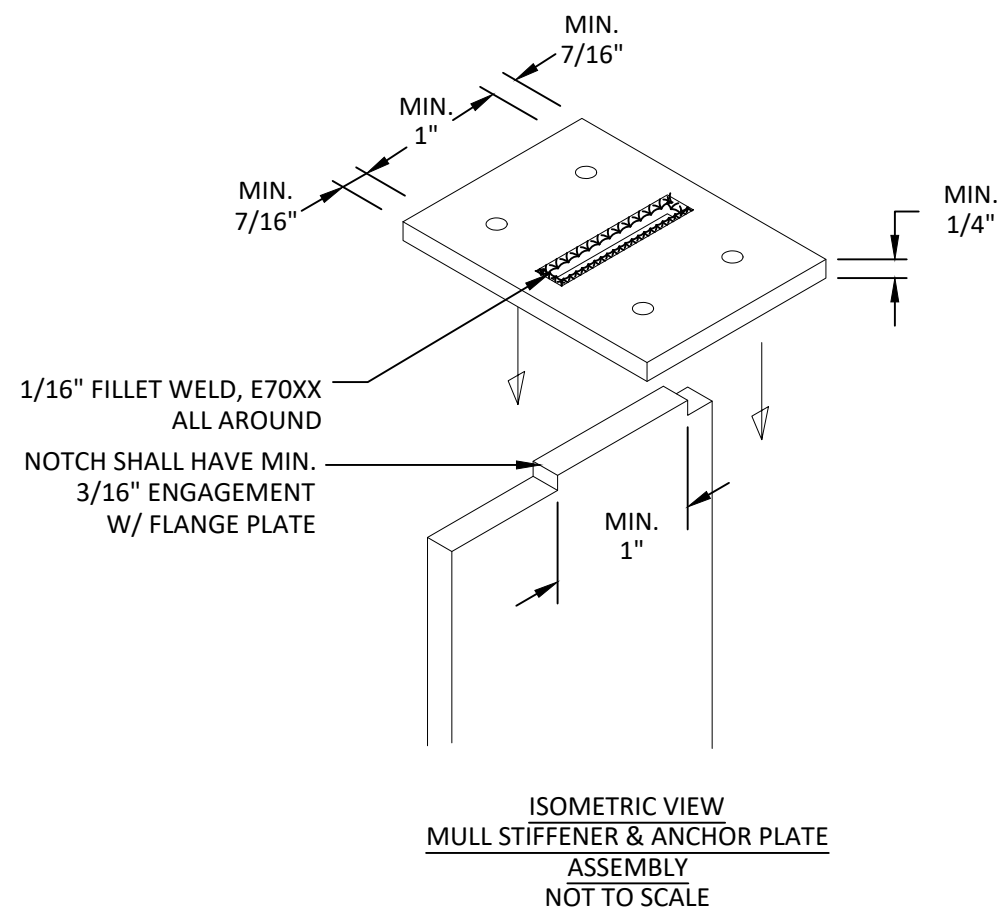
B 3 VERTICAL SECTION

TYP. ANCHOR DETAIL
WOOD/STEEL STUD SUBSTRATES

**TYP. ANCHOR DETAIL
WOOD/STEEL STUD SUBSTRATES**

- ### INSTALLATION NOTES:

1. FOR INSTALLATION INTO 2X BUCK USE (4) #12 FH WOOD SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - 1.1. MINIMUM EMBEDMENT OF 1-1/2" INTO WOOD
 - 1.2. MINIMUM EDGE DISTANCE OF 1"
2. FOR INSTALLATION THROUGH METAL FRAME USE (2) #12 FH SELF-DRILLING OR SELF-TAPPING, SAE GR. 5, TYPE SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.
 - 2.1. THREE (3) THREADS MINIMUM PENETRATION BEYOND METAL FRAME WALL.
 - 2.2. MINIMUM EDGE DISTANCE OF 3/4"
3. MINIMUM ANCHOR PLATE DIMENSIONS:
 - 3.1. $W_p = 5"$
 - 3.2. $E_1 = 1/2"$
 - 3.3. $C_1 = 1"$
 - 3.4. $S_1 = 3"$
4. SEE SHEET 1, INSTALLATION NOTE 7 FOR SUBSTRATE MINIMUM PROPERTIES.



TITLE: *CLIPPED MULLION
(WZ3)*

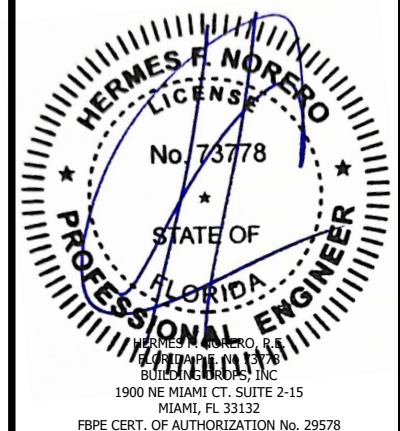
STANDARD INSTALLATION -
WOOD & METAL STUD SUBSTRATES

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DWG. BY: FB	CHK. BY: HFN
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SCALE: **NTS**

DWG. #: MWA003

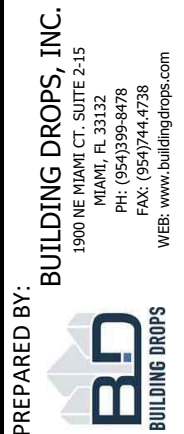
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3

OF 14

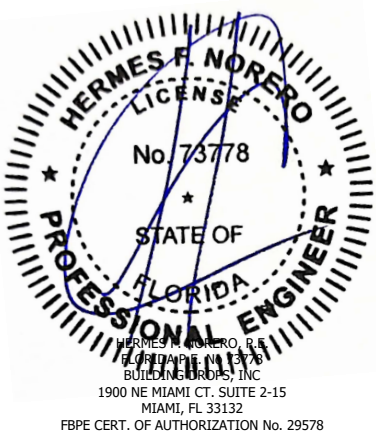


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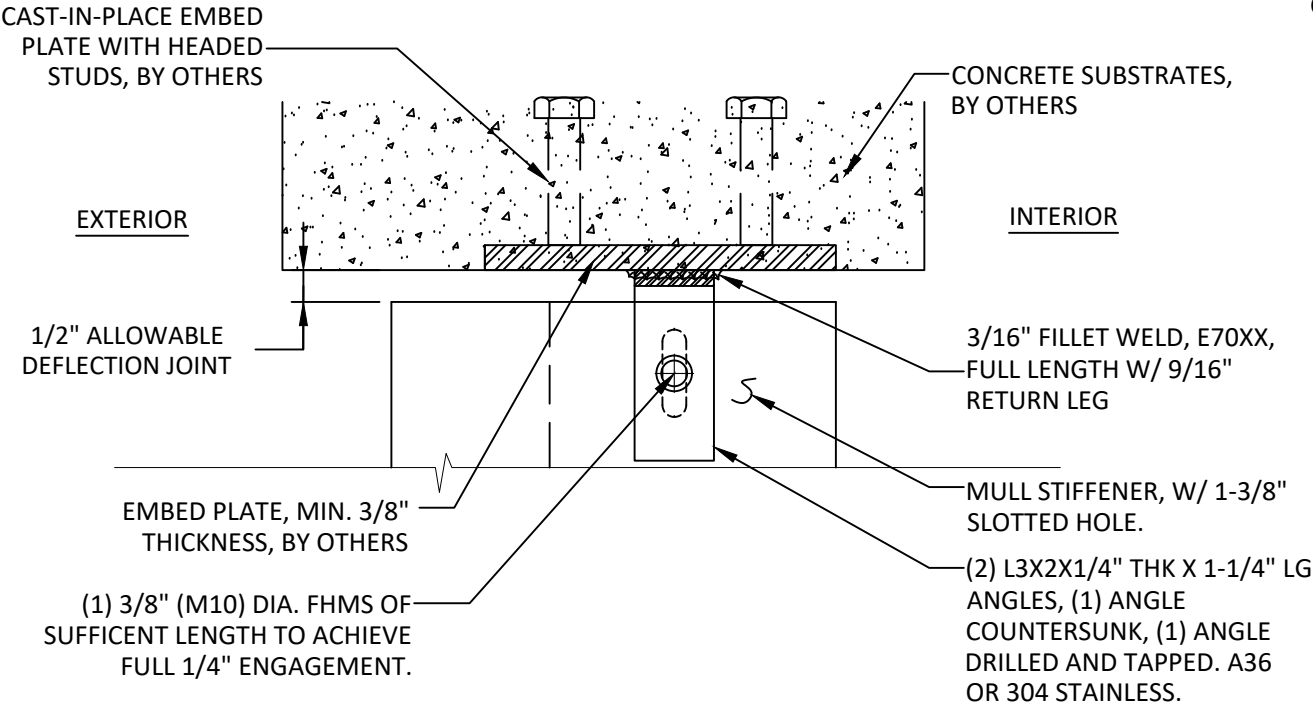
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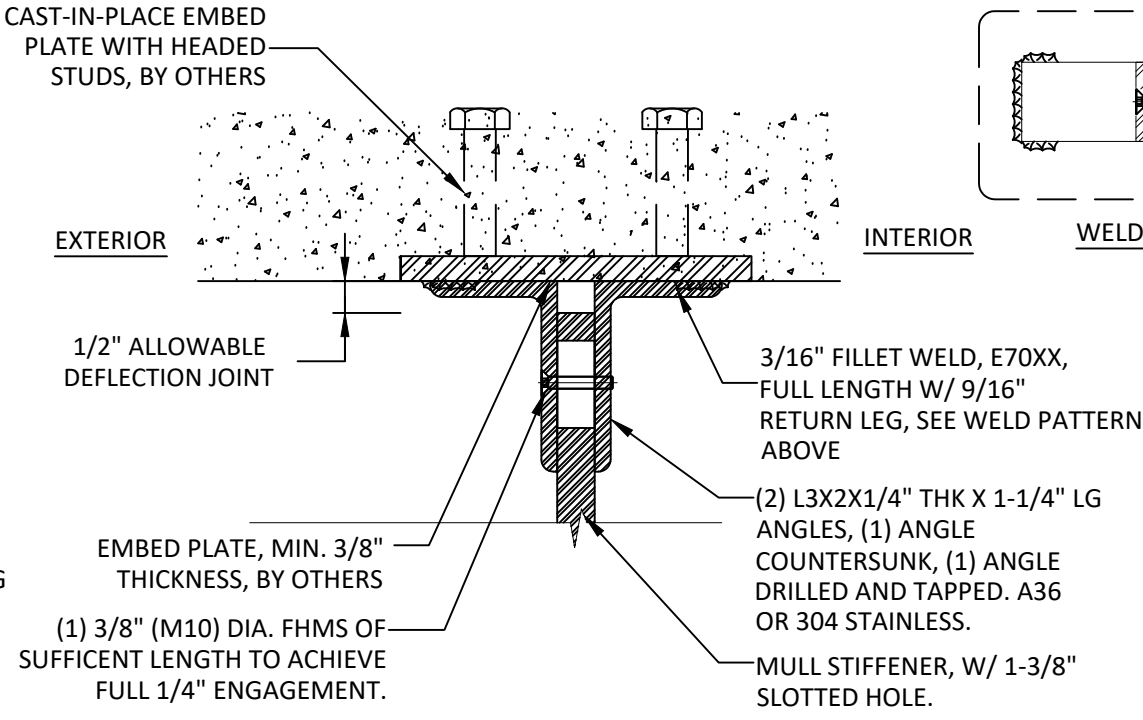


4 OF 14

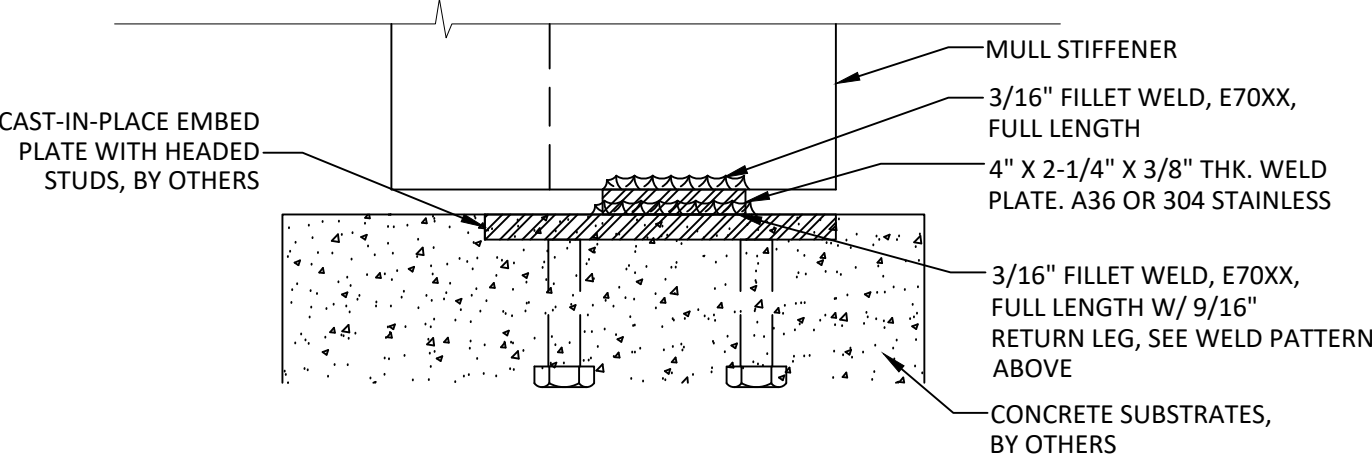
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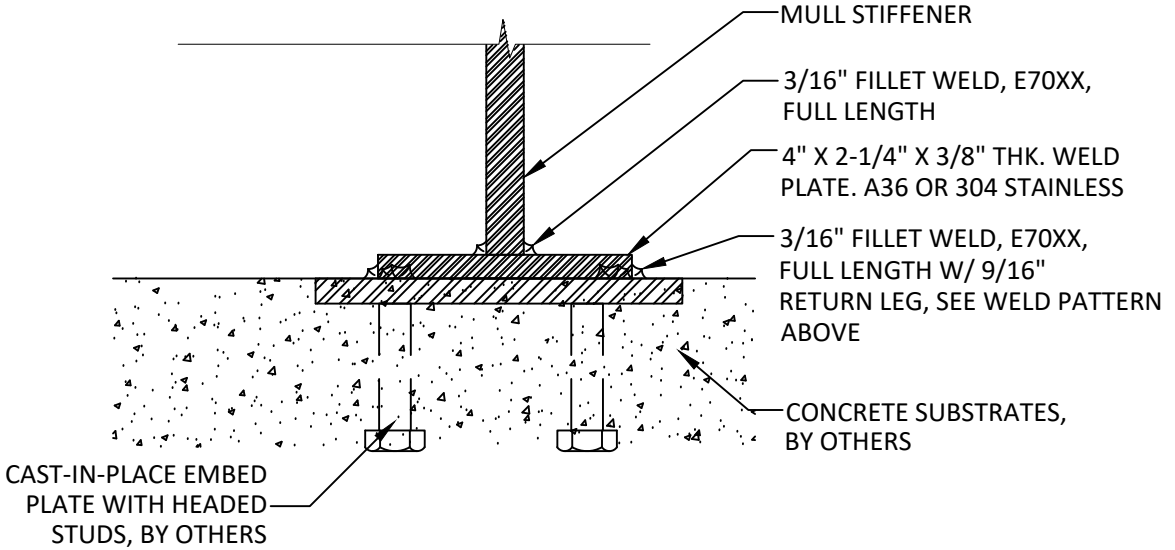
A
5 **VERTICAL SECTION**
DEFLECTION ANCHOR
CAST IN PLACE ANCHOR - CONCRETE



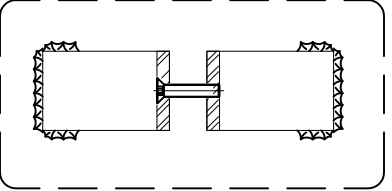
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5 **ELEVATION VIEW**
DEFLECTION ANCHOR
CAST IN PLACE ANCHOR - CONCRETE



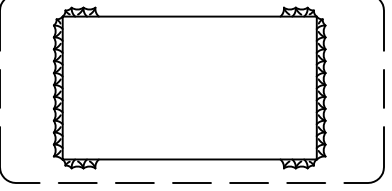
C
5 **VERTICAL SECTION**
WELD PLATE
CAST IN PLACE ANCHOR - CONCRETE



D
5 **ELEVATION VIEW**
WELD PLATE
CAST IN PLACE ANCHOR - CONCRETE



WELD PATTERN



WELD PATTERN

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TITLE: **CLIPPED MULLION (WZ3)**
WELD PLATE AND DEFLECTION ANCHOR INSTALLATION

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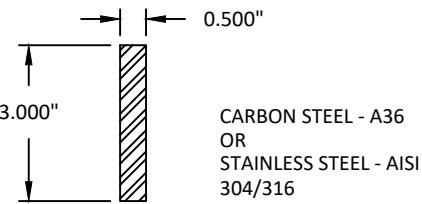
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	MWA003
SHEET:	5

1/2" X 3" STEEL STIFFENER

DESIGN PRESSURE CAPACITIES FOR ONE-WAY/TWO-WAY CONFIGURATIONS

TABLE 1

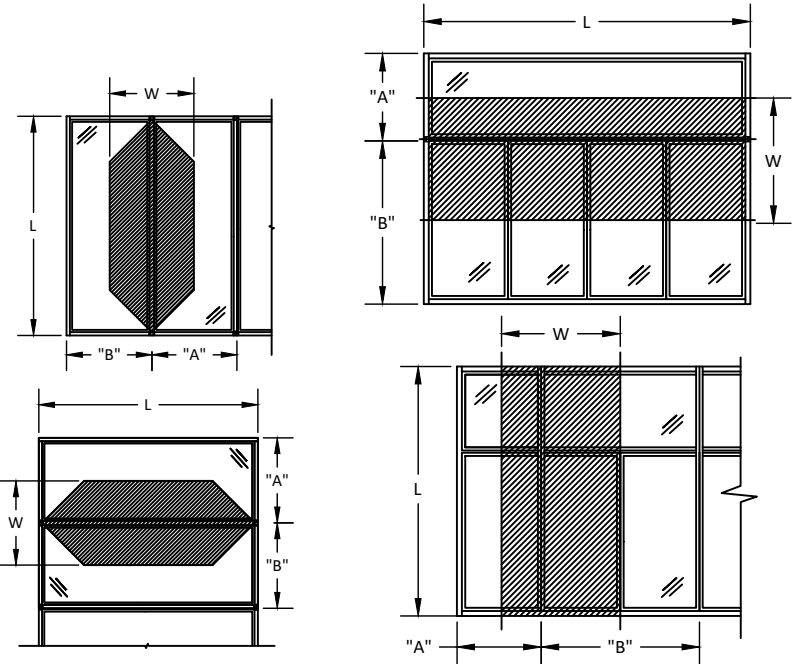
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																			
1/2 x 3 STRUCTURAL MULLION (ONE-WAY) CONFIGURATION																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
63.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
69.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.2
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.0	95.6	92.8	90.5	88.7	87.2	86.1	85.3
81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.2	90.9	87.2	84.1	81.5	79.3	77.5	76.0	74.8	73.9
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.7	89.2	84.6	80.6	77.3	74.4	71.9	69.9	68.1	66.7	65.6
87.0	100.0	100.0	100.0	100.0	100.0	97.8	90.7	84.8	79.8	75.5	71.9	68.8	66.1	63.9	61.9	60.3	58.9	57.7	56.8
90.0	100.0	100.0	100.0	100.0	95.9	88.0	81.5	76.1	71.6	67.7	64.4	61.6	59.1	57.0	55.2	53.6	52.3	51.2	50.2
93.0	100.0	100.0	100.0	95.5	86.7	79.5	73.6	68.7	64.5	61.0	57.9	55.3	53.0	51.1	49.4	47.9	46.7	45.6	44.7
96.0	100.0	100.0	96.8	86.6	78.6	72.0	66.7	62.2	58.3	55.1	52.3	49.9	47.8	46.0	44.4	43.0	41.8	40.8	39.9
108.0	89.3	76.9	67.6	60.4	54.7	50.1	46.3	43.0	40.3	38.0	35.9	34.2	32.7	31.3	30.1	29.1	28.1	27.3	26.6
114.0	75.9	65.3	57.4	51.2	46.4	42.4	39.1	36.4	34.1	32.0	30.3	28.8	27.5	26.3	25.3	24.4	23.5	22.8	22.2
120.0	65.0	55.9	49.1	43.8	39.6	36.2	33.4	31.1	29.0	27.3	25.8	24.5	23.3	22.3	21.4	20.6	19.9	19.3	18.7
126.0	56.1	48.2	42.3	37.8	34.2	31.2	28.8	26.7	25.0	23.5	22.2	21.0	20.0	19.1	18.3	17.6	17.0	16.4	15.9
132.0	48.7	41.9	36.8	32.8	29.7	27.1	24.9	23.2	21.6	20.3	19.2	18.2	17.3	16.5	15.8	15.2	-	-	-
138.0	42.6	36.6	32.1	28.7	25.9	23.6	21.8	20.2	18.9	17.7	16.7	15.8	15.0	-	-	-	-	-	-
144.0	37.5	32.2	28.3	25.2	22.8	20.8	19.1	17.7	16.5	15.5	-	-	-	-	-	-	-	-	-



- NOTE:
- TABLE 1 MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS. TABLE 2 MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN TWO-WAY, 'X' OR 'T' CONFIGURATIONS. TYPICAL ELEVATIONS SHOWN AT RIGHT.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
 - TRIBUTARY WIDTH = W = (A+B)/2
 - REFER TO SHEETS 3-5 FOR INSTALLATION DETAILS.
 - WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

TABLE 2

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																			
1/2 x 3 STRUCTURAL MULLION (TWO-WAY) CONFIGURATION																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	91.5	87.3	83.5	80.1
63.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.3	91.5	87.1	83.2	79.6	76.3
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.0	91.9	87.3	83.2	79.4	76.0	72.8
69.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.3	92.8	87.9	83.5	79.6	76.0	72.6	69.6
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2	89.0	84.3	80.1	76.3	72.8	69.6	66.7
75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	90.4	85.4	80.9	76.9	73.2	69.9	66.8	64.1
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.9	88.0	82.8	78.2	74.1	70.4	67.0	64.0	61.2	58.7
81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.7	89.8	83.8	78.6	74.0	69.8	66.2	62.9	59.9	57.1	54.7	52.4
84.0	100.0	100.0	100.0	100.0	100.0	100.0	93.9	86.7	80.5	75.2	70.5	66.3	62.6	59.3	56.4	53.7	51.2	49.0	47.0
87.0	100.0	100.0	100.0	100.0	100.0	92.2	84.6	78.1	72.5	67.6	63.4	59.7	56.4	53.4	50.7	48.3	46.1	44.1	42.3
90.0	100.0	100.0	100.0	100.0	91.7	83.3	76.4	70.5	65.5	61.1	57.3	53.9	50.9	48.2	45.8	43.6	41.7	39.8	38.2
93.0	100.0	100.0	100.0	92.3	83.1	75.5	69.2	63.9	59.3	55.4	51.9	48.9	46.1	43.7	41.5	39.6	37.8	36.1	34.6
96.0	100.0	100.0	94.4	83.9	75.5	68.7	62.9	58.1	53.9	50.3	47.2	44.4	42.0	39.7	37.8	36.0	34.3	32.8	31.5
108.0	88.4	75.8	66.3	58.9	53.0	48.2	44.2	40.8	37.9	35.4	33.2	31.2	29.5	27.9	26.5	25.3	24.1	23.1	22.1
114.0	75.2	64.4	56.4	50.1	45.1	41.0	37.6	34.7	32.2	30.1	28.2	26.5	25.1	23.7	22.5	21.5	20.5	-	-
120.0	64.4	55.2	48.3	43.0	38.7	35.2	32.2	29.7	27.6	25.8	24.2	22.7	21.5	20.4	-	-	-	-	-
126.0	55.7	47.7	41.8	37.1	33.4	30.4	27.8	25.7	23.9	22.3	20.9	-	-	-	-	-	-	-	-
132.0	48.4	41.5	36.3	32.3	29.1	26.4	24.2	22.3	20.8	-	-	-	-	-	-	-	-	-	-
138.0	42.4	36.3	31.8	28.2	25.4	23.1	21.2	-	-	-	-	-	-	-	-	-	-	-	-
144.0	37.3	32.0	28.0	24.9	22.4	20.3	-	-	-	-	-	-	-	-	-	-	-	-	-



ONE-WAY

TWO-WAY



4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
PH: +(843) 577-3348

CLIPPED MULLION
(WZ3)
1/2" X 3" ONE-WAY/TWO-WAY
DESIGN PRESSURE TABLES

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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.



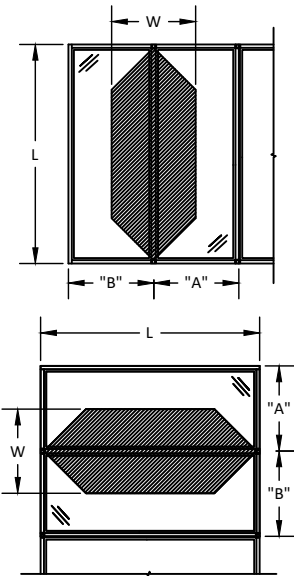
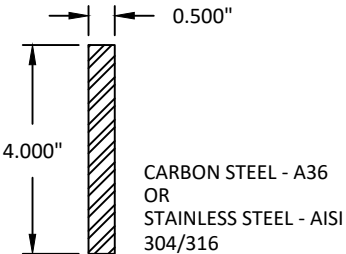
FL #:	FL47465
DATE:	03.18.2025
DWG. BY:	FB
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	MWA003
SHEET:	6

1/2" X 4" STEEL STIFFENER

DESIGN PRESSURE CAPACITIES FOR ONE-WAY CONFIGURATIONS

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																			
1/2 x 4 STRUCTURAL MULLION (ONE-WAY) CONFIGURATION																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
63.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
69.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
87.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	97.0	95.5	94.2
90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.7	96.1	93.9	91.9	90.3	89.0
93.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.0	94.1	91.5	89.3	87.3	85.7	84.3
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.2	92.8	89.9	87.3	85.1	83.2	81.5	80.1
108.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.7	89.9	85.2	81.0	77.4	74.2	71.4	68.9	66.7	64.8	63.1
114.0	100.0	100.0	100.0	100.0	100.0	100.0	92.8	86.3	80.7	76.0	71.8	68.3	65.1	62.3	59.9	57.7	55.8	54.1	52.6
120.0	100.0	100.0	100.0	100.0	94.0	85.9	79.2	73.6	68.8	64.7	61.2	58.1	55.3	52.9	50.8	48.9	47.2	45.7	44.3
126.0	100.0	100.0	100.0	89.6	81.0	74.0	68.2	63.3	59.2	55.6	52.5	49.8	47.4	45.3	43.4	41.8	40.3	39.0	37.8
132.0	100.0	99.3	87.2	77.8	70.3	64.2	59.1	54.9	51.3	48.1	45.4	43.1	41.0	39.1	37.5	36.0	34.7	33.5	32.4
138.0	100.0	86.8	76.2	68.0	61.4	56.0	51.6	47.9	44.7	42.0	39.6	37.5	35.6	34.0	32.6	31.3	30.1	29.0	28.1
144.0	88.9	76.3	67.0	59.7	53.9	49.2	45.3	42.0	39.2	36.8	34.7	32.8	31.2	29.8	28.5	27.3	26.3	25.3	24.5
148.0	81.8	70.3	61.7	55.0	49.6	45.3	41.7	38.6	36.1	33.8	31.9	30.2	28.7	27.3	26.1	25.1	24.1	23.2	22.4
152.0	75.5	64.9	56.9	50.7	45.8	41.8	38.4	35.6	33.2	31.2	29.4	27.8	26.4	25.1	24.0	23.0	22.1	21.3	20.6
156.0	69.8	60.0	52.6	46.9	42.3	38.6	35.5	32.9	30.7	28.8	27.1	25.6	24.3	23.2	22.2	21.2	20.4	19.7	19.0
160.0	64.7	55.6	48.7	43.4	39.2	35.7	32.9	30.5	28.4	26.6	25.1	23.7	22.5	21.4	20.5	19.6	18.8	18.1	17.5
164.0	60.1	51.6	45.2	40.3	36.4	33.2	30.5	28.2	26.3	24.7	23.2	22.0	20.8	19.9	19.0	18.2	17.4	16.8	16.2
168.0	55.9	48.0	42.1	37.5	33.8	30.8	28.3	26.2	24.5	22.9	21.6	20.4	19.4	18.4	17.6	16.8	16.2	15.6	15.0
172.0	52.0	44.7	39.2	34.9	31.5	28.7	26.4	24.4	22.8	21.3	20.1	19.0	18.0	17.1	16.4	15.7	15.0	-	-

- NOTE:
- MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS. TYPICAL ELEVATIONS SHOWN AT RIGHT.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
 - TRIBUTARY WIDTH = W = (A+B)/2
 - REFER TO SHEETS 3-5 FOR INSTALLATION DETAILS.
 - WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



MILLWORK
artisans

4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
PH: +(843) 577-3348

TITLE:
CLIPPED MULLION
(WZ3)
1/2" X 4" ONE-WAY
DESIGN PRESSURE TABLES

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL47465

DATE: 03.18.2025

DWG. BY: FB
CHK. BY: HFN

SCALE: NTS

DWG. #: MWA003

SHEET:

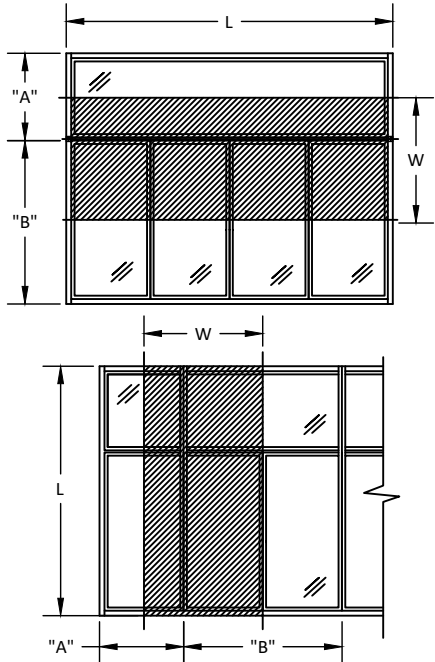
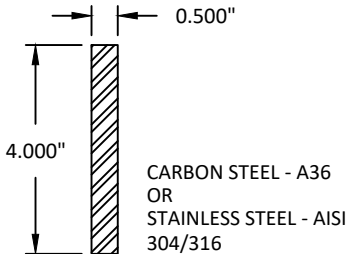
1/2" X 4" STEEL STIFFENER

DESIGN PRESSURE CAPACITIES FOR TWO-WAY CONFIGURATIONS

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																			
1/2 x 4 STRUCTURAL MULLION (TWO-WAY) CONFIGURATION																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	91.5	87.3	83.5	80.1
63.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.3	91.5	87.1	83.2	79.6
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.0	91.9	87.3	83.2	79.4	72.8
69.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.3	92.8	87.9	83.5	79.6	76.0	69.6
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2	89.0	84.3	80.1	76.3	72.8	66.7
75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	90.4	85.4	80.9	76.9	73.2	69.9	64.1
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.5	92.4	86.9	82.1	77.8	73.9	70.4	67.2	61.6
81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.9	89.0	83.7	79.1	74.9	71.2	67.8	64.7	59.3
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	91.5	85.8	80.7	76.3	72.2	68.6	65.4	62.4	57.2
87.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.7	88.3	82.8	78.0	73.6	69.7	66.3	63.1	60.2	55.2
90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.5	91.5	85.4	80.1	75.4	71.2	67.4	64.1	61.0	58.2	53.4
93.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.4	88.6	82.6	77.5	72.9	68.9	65.2	62.0	59.0	56.4	51.7
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.4	85.8	80.1	75.1	70.6	66.7	63.2	60.0	57.2	54.6	50.0
108.0	100.0	100.0	100.0	100.0	100.0	97.0	89.0	82.1	76.3	71.2	66.7	62.8	59.3	56.2	53.4	50.8	48.5	46.4	44.5
114.0	100.0	100.0	100.0	100.0	100.0	91.9	84.3	77.8	72.2	67.4	63.2	59.5	56.2	53.2	50.6	48.2	46.0	44.0	42.1
120.0	100.0	100.0	100.0	100.0	91.7	83.3	76.4	70.5	65.5	61.1	57.3	53.9	50.9	48.2	45.8	43.6	41.7	39.9	38.2
126.0	100.0	100.0	99.0	88.0	79.2	72.0	66.0	60.9	56.6	52.8	49.5	46.6	44.0	41.7	39.6	37.7	36.0	34.4	33.0
132.0	100.0	98.4	86.1	76.5	68.9	62.6	57.4	53.0	49.2	45.9	43.0	40.5	38.3	36.2	34.4	32.8	31.3	29.9	28.7
138.0	100.0	86.1	75.3	67.0	60.3	54.8	50.2	46.4	43.0	40.2	37.7	35.4	33.5	31.7	30.1	28.7	27.4	26.2	25.1
144.0	88.4	75.8	66.3	58.9	53.0	48.2	44.2	40.8	37.9	35.4	33.2	31.2	29.5	27.9	26.5	25.3	24.1	23.1	22.1
148.0	81.4	69.8	61.1	54.3	48.9	44.4	40.7	37.6	34.9	32.6	30.5	28.7	27.1	25.7	24.4	23.3	22.2	21.2	20.4
152.0	75.2	64.4	56.4	50.1	45.1	41.0	37.6	34.7	32.2	30.1	28.2	26.5	25.1	23.7	22.5	21.5	20.5	-	-
156.0	69.5	59.6	52.1	46.4	41.7	37.9	34.8	32.1	29.8	27.8	26.1	24.5	23.2	22.0	20.9	-	-	-	-
160.0	64.4	55.2	48.3	43.0	38.7	35.2	32.2	29.7	27.6	25.8	24.2	22.7	21.5	20.4	-	-	-	-	-
164.0	59.8	51.3	44.9	39.9	35.9	32.6	29.9	27.6	25.6	23.9	22.4	21.1	-	-	-	-	-	-	-
168.0	55.7	47.7	41.8	37.1	33.4	30.4	27.8	25.7	23.9	22.3	20.9	-	-	-	-	-	-	-	-
172.0	51.9	44.5	38.9	34.6	31.1	28.3	25.9	23.9	22.2	20.8	-	-	-	-	-	-	-	-	-

NOTE:

- MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN TWO-WAY, 'X' OR 'T' CONFIGURATIONS. TYPICAL ELEVATIONS SHOWN AT RIGHT.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
- TRIBUTARY WIDTH = W = (A+B)/2
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MILLWORK
artisans

4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
PH: +(843) 577-3348

TITLE:
CLIPPED MULLION
(WZ3)
1/2" X 4" TWO-WAY
DESIGN PRESSURE TABLES

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE
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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL47465

DATE: 03.18.2025

DWG. BY: FB
CHK. BY: HFN

SCALE: NTS

DWG. #: MWA003

SHEET:
8
OF 14

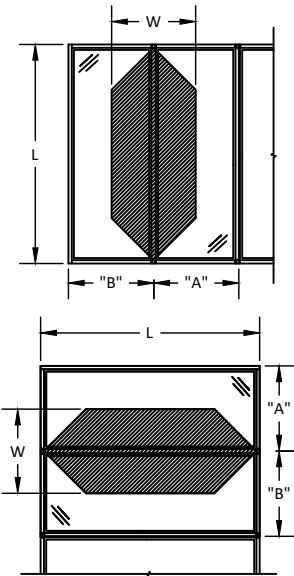
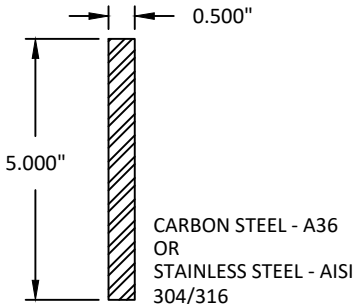
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1/2" X 5" STEEL STIFFENER

DESIGN PRESSURE CAPACITIES FOR ONE-WAY CONFIGURATIONS

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																			
1/2 x 5 STRUCTURAL MULLION (ONE-WAY) CONFIGURATION																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
63.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
69.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
87.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	97.0	95.5	94.2
90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.7	96.1	93.9	91.9	90.3	89.0
93.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.0	94.1	91.5	89.3	87.3	85.7	84.3
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.2	92.8	89.9	87.3	85.1	83.2	81.5	80.1
108.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.7	89.9	85.8	82.2	79.1	76.3	73.9	71.8	69.9	68.2	66.7
114.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.9	88.6	84.0	80.1	76.6	73.6	71.0	68.6	66.5	64.7	63.1	61.6
120.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2	88.2	83.2	78.8	75.1	71.8	68.9	66.3	64.1	62.0	60.2	58.6	57.2
126.0	100.0	100.0	100.0	100.0	100.0	95.7	89.0	83.3	78.4	74.3	70.6	67.5	64.7	62.2	60.0	58.1	56.4	54.8	53.4
132.0	100.0	100.0	100.0	100.0	98.5	90.7	84.3	78.8	74.2	70.2	66.7	63.7	61.0	58.6	56.5	54.6	52.9	51.4	50.0
138.0	100.0	100.0	100.0	100.0	93.7	86.3	80.1	74.8	70.4	66.5	63.2	60.3	57.7	55.4	53.4	51.6	49.9	48.4	47.1
144.0	100.0	100.0	100.0	98.2	89.4	82.2	76.3	71.2	67.0	63.3	60.0	57.2	54.7	52.5	50.6	48.8	47.2	45.8	44.5
148.0	100.0	100.0	100.0	95.2	86.7	79.7	73.9	69.0	64.8	61.2	58.1	55.4	52.9	50.8	48.9	47.1	45.6	44.2	42.7
152.0	100.0	100.0	100.0	92.5	84.2	77.4	71.7	66.9	62.9	59.4	56.3	53.6	51.2	49.1	46.9	45.0	43.3	41.7	40.2
156.0	100.0	100.0	100.0	89.9	81.8	75.1	69.3	64.3	59.9	56.2	52.9	50.1	47.5	45.3	43.3	41.5	39.9	38.4	37.0
160.0	100.0	100.0	95.2	84.8	76.5	69.8	64.2	59.5	55.5	52.0	49.0	46.3	44.0	41.9	40.0	38.3	36.8	35.4	34.2
164.0	100.0	100.0	88.3	78.7	71.0	64.8	59.6	55.2	51.4	48.2	45.4	42.9	40.7	38.8	37.0	35.5	34.1	32.8	31.6
168.0	100.0	93.7	82.1	73.2	66.0	60.2	55.4	51.3	47.8	44.8	42.1	39.8	37.8	36.0	34.4	32.9	31.6	30.4	29.3
172.0	100.0	87.3	76.5	68.2	61.5	56.1	51.5	47.7	44.5	41.7	39.2	37.1	35.2	33.5	31.9	30.6	29.3	28.2	27.2
176.0	94.9	81.4	71.4	63.6	57.4	52.3	48.1	44.5	41.5	38.8	36.5	34.5	32.8	31.2	29.7	28.5	27.3	26.3	25.3
180.0	88.7	76.1	66.7	59.4	53.6	48.8	44.9	41.6	38.7	36.3	34.1	32.2	30.6	29.1	27.8	26.6	25.5	24.5	23.6
184.0	83.0	71.2	62.4	55.6	50.1	45.7	42.0	38.9	36.2	33.9	31.9	30.1	28.6	27.2	25.9	24.8	23.8	22.9	22.0
188.0	77.8	66.8	58.5	52.1	47.0	42.8	39.3	36.4	33.9	31.8	29.9	28.2	26.7	25.4	24.3	23.2	22.3	21.4	20.6
192.0	73.0	62.7	54.9	48.9	44.1	40.2	36.9	34.2	31.8	29.8	28.0	26.4	25.1	23.8	22.7	21.7	20.8	20.0	19.3
196.0	68.6	58.9	51.6	45.9	41.4	37.7	34.7	32.1	29.9	28.0	26.3	24.8	23.5	22.4	21.3	20.4	19.6	18.8	18.1

- NOTE:
- MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS. TYPICAL ELEVATIONS SHOWN AT RIGHT.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
 - TRIBUTARY WIDTH = W = (A+B)/2
 - REFER TO SHEETS 3-5 FOR INSTALLATION DETAILS.
 - WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
PH: +(843) 577-3348

TITLE:

CLIPPED MULLION
(WZ3)

1/2" X 5" ONE-WAY
DESIGN PRESSURE TABLES

PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE

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.

HERMES F. NORERO, R.
LICENSED PROFESSIONAL ENGINEER
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL47465

DATE: 03.18.2025

DWG. BY: FB CHK. BY: HFN

SCALE: NTS

DWG. #: MWA003

SHEET:

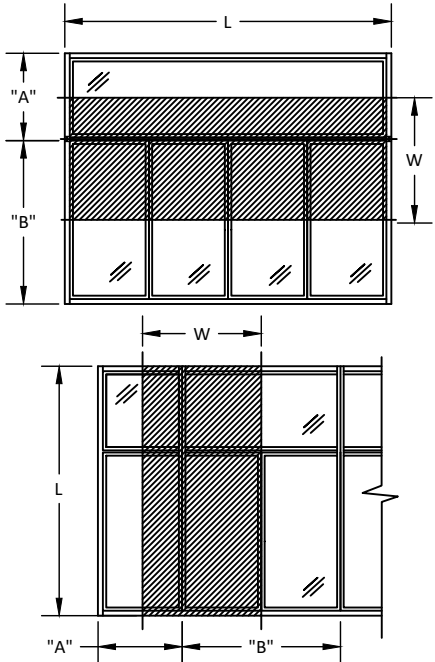
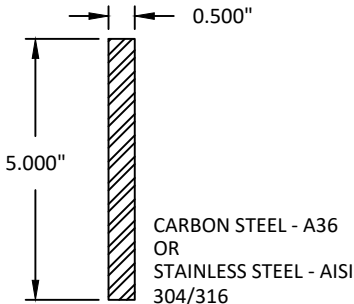
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1/2" X 5" STEEL STIFFENER

DESIGN PRESSURE CAPACITIES FOR TWO-WAY CONFIGURATIONS

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																			
1/2 x 5 STRUCTURAL MULLION (TWO-WAY) CONFIGURATION																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	91.5	87.3	83.5	80.1
63.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.3	91.5	87.1	83.2	79.6
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.0	91.9	87.3	83.2	79.4	76.0
69.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.3	92.8	87.9	83.5	79.6	76.0	69.6
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2	89.0	84.3	80.1	76.3	72.8	66.7
75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	90.4	85.4	80.9	76.9	73.2	69.9	64.1
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.5	92.4	86.9	82.1	77.8	73.9	70.4	67.2	61.6
81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.9	89.0	83.7	79.1	74.9	71.2	67.8	64.7	61.9	59.3
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	91.5	85.8	80.7	76.3	72.2	68.6	65.4	62.4	59.7	57.2
87.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.7	88.3	82.8	78.0	73.6	69.7	66.3	63.1	60.2	57.6	55.2
90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.5	91.5	85.4	80.1	75.4	71.2	67.4	64.1	61.0	58.2	55.7	53.4
93.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.4	88.6	82.6	77.5	72.9	68.9	65.2	62.0	59.0	56.4	53.9	51.7
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.4	85.8	80.1	75.1	70.6	66.7	63.2	60.0	57.2	54.6	52.2	50.0
108.0	100.0	100.0	100.0	100.0	100.0	97.0	89.0	82.1	76.3	71.2	66.7	62.8	59.3	56.2	53.4	50.8	48.5	46.4	44.5
114.0	100.0	100.0	100.0	100.0	100.0	91.9	84.3	77.8	72.2	67.4	63.2	59.5	56.2	53.2	50.6	48.2	46.0	44.0	42.1
120.0	100.0	100.0	100.0	100.0	96.1	87.3	80.1	73.9	68.6	64.1	60.0	56.5	53.4	50.6	48.0	45.8	43.7	41.8	40.0
126.0	100.0	100.0	100.0	100.0	91.5	83.2	76.3	70.4	65.4	61.0	57.2	53.8	50.8	48.2	45.8	43.6	41.6	39.8	38.1
132.0	100.0	100.0	100.0	97.0	87.3	79.4	72.8	67.2	62.4	58.2	54.6	51.4	48.5	46.0	43.7	41.6	39.7	38.0	36.4
138.0	100.0	100.0	100.0	92.8	83.5	76.0	69.6	64.3	59.7	55.7	52.2	49.1	46.4	44.0	41.8	39.8	38.0	36.3	34.8
144.0	100.0	100.0	100.0	89.0	80.1	72.8	66.7	61.6	57.2	53.4	50.0	47.1	44.5	42.1	40.0	38.1	36.4	34.8	33.4
148.0	100.0	100.0	97.4	86.6	77.9	70.8	64.9	59.9	55.6	51.9	48.7	45.8	43.3	41.0	39.0	37.1	35.4	33.9	32.5
152.0	100.0	100.0	93.3	82.9	74.6	67.9	62.2	57.4	53.3	49.8	46.7	43.9	41.5	39.3	37.3	35.5	33.9	32.5	31.1
156.0	100.0	100.0	88.6	78.7	70.9	64.4	59.1	54.5	50.6	47.2	44.3	41.7	39.4	37.3	35.4	33.7	32.2	30.8	29.5
160.0	100.0	96.2	84.2	74.9	67.4	61.2	56.1	51.8	48.1	44.9	42.1	39.6	37.4	35.5	33.7	32.1	30.6	29.3	28.1
164.0	100.0	91.6	80.1	71.2	64.1	58.3	53.4	49.3	45.8	42.7	40.1	37.7	35.6	33.7	32.1	30.5	29.1	27.9	26.7
168.0	100.0	87.3	76.4	67.9	61.1	55.5	50.9	47.0	43.6	40.7	38.2	35.9	33.9	32.2	30.6	29.1	27.8	26.6	25.5
172.0	97.2	83.3	72.9	64.8	58.3	53.0	48.6	44.8	41.6	38.9	36.4	34.3	32.4	30.7	29.1	27.8	26.5	25.3	24.3
176.0	92.8	79.5	69.6	61.9	55.7	50.6	46.4	42.8	39.8	37.1	34.8	32.7	30.9	29.3	27.8	26.5	25.3	24.2	23.2
180.0	88.4	75.8	66.3	58.9	53.0	48.2	44.2	40.8	37.9	35.4	33.2	31.2	29.5	27.9	26.5	25.3	24.1	23.1	22.1
184.0	82.8	70.9	62.1	55.2	49.7	45.1	41.4	38.2	35.5	33.1	31.0	29.2	27.6	26.1	24.8	23.6	22.6	21.6	20.7
188.0	77.6	66.5	58.2	51.7	46.6	42.3	38.8	35.8	33.3	31.0	29.1	27.4	25.9	24.5	23.3	22.2	21.2	20.2	-
192.0	72.8	62.4	54.6	48.6	43.7	39.7	36.4	33.6	31.2	29.1	27.3	25.7	24.3	23.0	21.9	20.8	-	-	-
196.0	68.5	58.7	51.4	45.6	41.1	37.3	34.2	31.6	29.3	27.4	25.7	24.2	22.8	21.6	20.5	-	-	-	-

- NOTE:
- MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN TWO-WAY,'X' OR 'T' CONFIGURATIONS. TYPICAL ELEVATIONS SHOWN AT RIGHT.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
 - TRIBUTARY WIDTH = W = (A+B)/2
 - REFER TO SHEETS 3-5 FOR INSTALLATION DETAILS.
 - WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



MILLWORK
artisans

4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
PH: +(843) 577-3348

TITLE:
CLIPPED MULLION
(WZ3)
1/2" X 5" TWO-WAY
DESIGN PRESSURE TABLES

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, R.
ENGINEER
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL47465

DATE: 03.18.2025

DWG. BY: FB
CHK. BY: HFN

SCALE: NTS

DWG. #: MWA003

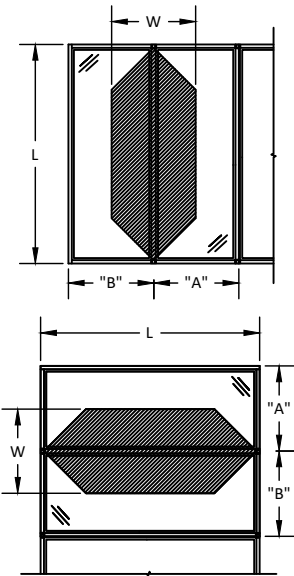
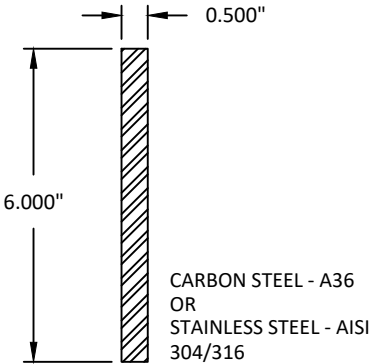
SHEET:
10
OF 14

1/2" X 6" STEEL STIFFENER

DESIGN PRESSURE CAPACITIES FOR ONE-WAY CONFIGURATIONS

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																			
1/2 x 6 STRUCTURAL MULLION (ONE-WAY) CONFIGURATION																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
63.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
69.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
87.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	97.0	95.5	94.2
90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.7	96.1	93.9	91.9	90.3	89.0
93.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.0	94.1	91.5	89.3	87.3	85.7	84.3
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.2	92.8	89.9	87.3	85.1	83.2	81.5	80.1
108.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.7	89.9	85.8	82.2	79.1	76.3	73.9	71.8	69.9	68.2	66.7
114.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.9	88.6	84.0	80.1	76.6	73.6	71.0	68.6	66.5	64.7	63.1	61.6
120.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2	88.2	83.2	78.8	75.1	71.8	68.9	66.3	64.1	62.0	60.2	58.6	57.2
126.0	100.0	100.0	100.0	100.0	100.0	95.7	89.0	83.3	78.4	74.3	70.6	67.5	64.7	62.2	60.0	58.1	56.4	54.8	53.4
132.0	100.0	100.0	100.0	100.0	98.5	90.7	84.3	78.8	74.2	70.2	66.7	63.7	61.0	58.6	56.5	54.6	52.9	51.4	50.0
138.0	100.0	100.0	100.0	100.0	93.7	86.3	80.1	74.8	70.4	66.5	63.2	60.3	57.7	55.4	53.4	51.6	49.9	48.4	47.1
144.0	100.0	100.0	100.0	98.2	89.4	82.2	76.3	71.2	67.0	63.3	60.0	57.2	54.7	52.5	50.6	48.8	47.2	45.8	44.5
148.0	100.0	100.0	100.0	95.2	86.7	79.7	73.9	69.0	64.8	61.2	58.1	55.4	52.9	50.8	48.9	47.1	45.6	44.2	42.9
152.0	100.0	100.0	100.0	92.5	84.2	77.4	71.7	66.9	62.9	59.4	56.3	53.6	51.2	49.1	47.3	45.6	44.0	42.7	41.4
156.0	100.0	100.0	100.0	89.9	81.8	75.1	69.6	65.0	61.0	57.6	54.6	52.0	49.7	47.6	45.8	44.1	42.6	41.3	40.0
160.0	100.0	100.0	97.4	87.4	79.5	73.0	67.7	63.1	59.2	55.9	53.0	50.4	48.2	46.1	44.3	42.7	41.3	39.9	38.7
164.0	100.0	100.0	94.8	85.1	77.4	71.1	65.8	61.4	57.6	54.3	51.5	49.0	46.8	44.8	43.0	41.4	40.0	38.7	37.5
168.0	100.0	100.0	92.4	82.9	75.4	69.2	64.1	59.7	56.0	52.8	50.0	47.6	45.4	43.5	41.8	40.2	38.8	37.5	36.4
172.0	100.0	100.0	90.1	80.8	73.4	67.4	62.4	58.2	54.5	51.4	48.7	46.3	44.2	42.3	40.6	39.1	37.7	36.5	35.3
176.0	100.0	99.5	87.9	78.8	71.6	65.7	60.8	56.7	53.1	50.1	47.4	45.1	43.0	41.1	39.5	38.0	36.6	35.4	34.3
180.0	100.0	97.2	85.8	76.9	69.9	64.1	59.3	55.3	51.8	48.8	46.2	43.9	41.9	40.1	38.4	37.0	35.7	34.5	33.4
184.0	100.0	94.9	83.8	75.1	68.2	62.6	57.9	53.9	50.5	47.6	45.0	42.8	40.8	39.0	37.4	36.0	34.7	33.5	32.2
188.0	100.0	92.8	81.9	73.4	66.6	61.1	56.5	52.6	49.3	46.4	43.9	41.7	39.8	38.0	36.4	34.8	33.3	32.0	30.8
192.0	100.0	90.7	80.1	71.8	65.1	59.7	55.2	51.4	48.2	45.3	42.9	40.6	38.4	36.5	34.8	33.3	31.9	30.6	29.4
196.0	100.0	88.8	78.3	70.2	63.7	58.4	54.0	50.2	46.9	43.9	41.2	38.9	36.9	35.0	33.4	31.9	30.5	29.3	28.2

- NOTE:
- MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS. TYPICAL ELEVATIONS SHOWN AT RIGHT.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
 - TRIBUTARY WIDTH = W = (A+B)/2
 - REFER TO SHEETS 3-5 FOR INSTALLATION DETAILS.
 - WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
PH: +(843) 577-3348

TITLE:

CLIPPED MULLION
(WZ3)

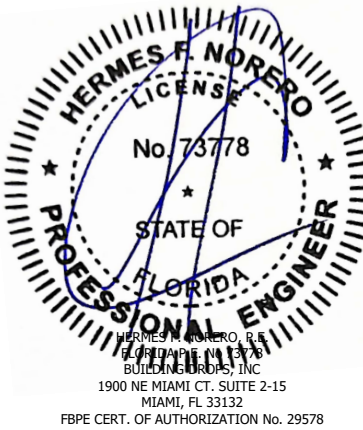
1/2" X 6" ONE-WAY
DESIGN PRESSURE TABLES

PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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.



FL #:

FL47465

DATE: 03.18.2025

DWG. BY: FB
CHK. BY: HFN

SCALE: NTS

DWG. #: MWA003

SHEET:

4/21/2025 7:20 PM

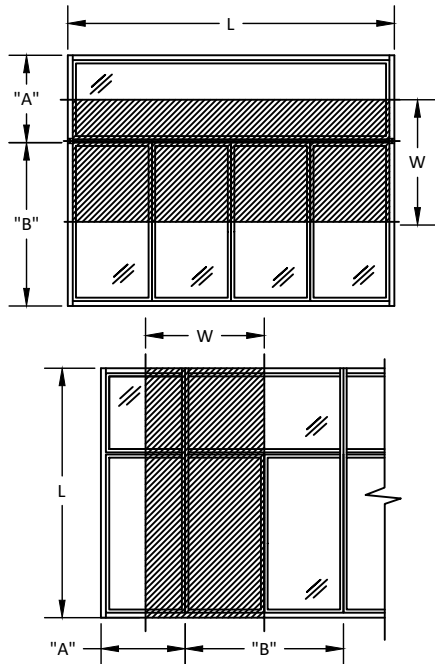
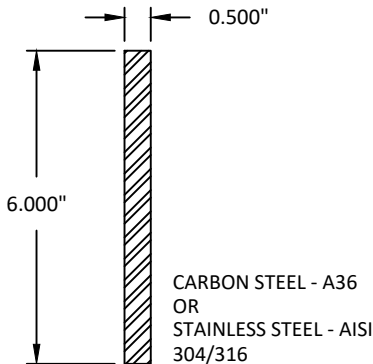
1/2" X 6" STEEL STIFFENER

DESIGN PRESSURE CAPACITIES FOR TWO-WAY CONFIGURATIONS

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																			
1/2 x 6 STRUCTURAL MULLION (TWO-WAY) CONFIGURATION																			
L - Mullion Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	91.5	87.3	83.5	80.1
63.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.3	91.5	87.1	83.2	79.6
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.0	91.9	87.3	83.2	79.4	76.0
69.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.3	92.8	87.9	83.5	79.6	76.0	72.6
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2	89.0	84.3	80.1	76.3	72.8	69.6
75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	90.4	85.4	80.9	76.9	73.2	69.9	66.8	64.1
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.5	92.4	86.9	82.1	77.8	73.9	70.4	67.2	64.3	61.6
81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.9	89.0	83.7	79.1	74.9	71.2	67.8	64.7	61.9	59.3
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	91.5	85.8	80.7	76.3	72.2	68.6	65.4	62.4	59.7	57.2
87.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.7	88.3	82.8	78.0	73.6	69.7	66.3	63.1	60.2	57.6	55.2
90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.5	91.5	85.4	80.1	75.4	71.2	67.4	64.1	61.0	58.2	55.7	53.4
93.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.4	88.6	82.6	77.5	72.9	68.9	65.2	62.0	59.0	56.4	53.9	51.7
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.4	85.8	80.1	75.1	70.6	66.7	63.2	60.0	57.2	54.6	52.2	50.0
108.0	100.0	100.0	100.0	100.0	100.0	97.0	89.0	82.1	76.3	71.2	66.7	62.8	59.3	56.2	53.4	50.8	48.5	46.4	44.5
114.0	100.0	100.0	100.0	100.0	100.0	91.9	84.3	77.8	72.2	67.4	63.2	59.5	56.2	53.2	50.6	48.2	46.0	44.0	42.1
120.0	100.0	100.0	100.0	100.0	96.1	87.3	80.1	73.9	68.6	64.1	60.0	56.5	53.4	50.6	48.0	45.8	43.7	41.8	40.0
126.0	100.0	100.0	100.0	100.0	91.5	83.2	76.3	70.4	65.4	61.0	57.2	53.8	50.8	48.2	45.8	43.6	41.6	39.8	38.1
132.0	100.0	100.0	100.0	97.0	87.3	79.4	72.8	67.2	62.4	58.2	54.6	51.4	48.5	46.0	43.7	41.6	39.7	38.0	36.4
138.0	100.0	100.0	100.0	92.8	83.5	76.0	69.6	64.3	59.7	55.7	52.2	49.1	46.4	44.0	41.8	39.8	38.0	36.3	34.8
144.0	100.0	100.0	100.0	89.0	80.1	72.8	66.7	61.6	57.2	53.4	50.0	47.1	44.5	42.1	40.0	38.1	36.4	34.8	33.4
148.0	100.0	100.0	97.4	86.6	77.9	70.8	64.9	59.9	55.6	51.9	48.7	45.8	43.3	41.0	39.0	37.1	35.4	33.9	32.5
152.0	100.0	100.0	94.8	84.3	75.9	69.0	63.2	58.3	54.2	50.6	47.4	44.6	42.1	39.9	37.9	36.1	34.5	33.0	31.6
156.0	100.0	100.0	92.4	82.1	73.9	67.2	61.6	56.9	52.8	49.3	46.2	43.5	41.1	38.9	37.0	35.2	33.6	32.1	30.8
160.0	100.0	100.0	90.1	80.1	72.1	65.5	60.0	55.4	51.5	48.0	45.0	42.4	40.0	37.9	36.0	34.3	32.8	31.3	30.0
164.0	100.0	100.0	87.9	78.1	70.3	63.9	58.6	54.1	50.2	46.9	43.9	41.4	39.1	37.0	35.2	33.5	32.0	30.6	29.3
168.0	100.0	98.0	85.8	76.3	68.6	62.4	57.2	52.8	49.0	45.8	42.9	40.4	38.1	36.1	34.3	32.7	31.2	29.8	28.6
172.0	100.0	95.8	83.8	74.5	67.0	60.9	55.9	51.6	47.9	44.7	41.9	39.4	37.2	35.3	33.5	31.9	30.5	29.1	27.9
176.0	100.0	93.6	81.9	72.8	65.5	59.6	54.6	50.4	46.8	43.7	40.9	38.5	36.4	34.5	32.8	31.2	29.8	28.5	27.3
180.0	100.0	91.2	79.8	71.0	63.9	58.1	53.2	49.1	45.6	42.6	39.9	37.6	35.5	33.6	31.9	30.4	29.0	27.8	26.6
184.0	100.0	87.3	76.4	67.9	61.1	55.6	50.9	47.0	43.7	40.8	38.2	36.0	34.0	32.2	30.6	29.1	27.8	26.6	25.5
188.0	97.6	83.6	73.2	65.1	58.6	53.2	48.8	45.0	41.8	39.0	36.6	34.4	32.5	30.8	29.3	27.9	26.6	25.5	24.4
192.0	93.6	80.2	70.2	62.4	56.1	51.0	46.8	43.2	40.1	37.4	35.1	33.0	31.2	29.5	28.1	26.7	25.5	24.4	23.4
196.0	89.8	77.0	67.3	59.9	53.9	49.0	44.9	41.4	38.5	35.9	33.7	31.7	29.9	28.4	26.9	25.7	24.5	23.4	22.4

NOTE:

- MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN TWO-WAY, 'X' OR 'T' CONFIGURATIONS. TYPICAL ELEVATIONS SHOWN AT RIGHT.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
- TRIBUTARY WIDTH = W = (A+B)/2
- REFER TO SHEETS 3-5 FOR INSTALLATION DETAILS.
- WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
PH: +(843) 577-3348

TITLE:

CLIPPED MULLION
(WZ3)

1/2" X 6" TWO-WAY
DESIGN PRESSURE TABLES

PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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.

HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, R.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL47465

DATE: **03.18.2025**

DWG. BY: **FB** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **MWA003**

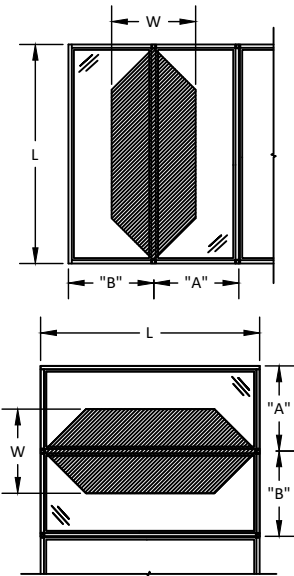
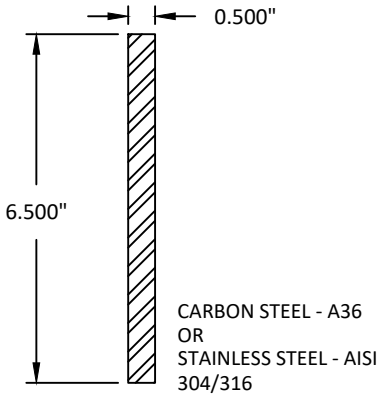
SHEET:

1/2" X 6-1/2" STEEL STIFFENER

DESIGN PRESSURE CAPACITIES FOR ONE-WAY CONFIGURATIONS

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																			
1/2 x 6.5 STRUCTURAL MULLION (ONE-WAY) CONFIGURATION																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
63.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
69.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
87.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	97.0	95.5	94.2
90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.7	96.1	93.9	91.9	90.3	89.0
93.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.0	94.1	91.5	89.3	87.3	85.7	84.3
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.2	92.8	89.9	87.3	85.1	83.2	81.5	80.1
108.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.7	89.9	85.8	82.2	79.1	76.3	73.9	71.8	69.9	68.2	66.7
114.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.9	88.6	84.0	80.1	76.6	73.6	71.0	68.6	66.5	64.7	63.1	61.6
120.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2	88.2	83.2	78.8	75.1	71.8	68.9	66.3	64.1	62.0	60.2	58.6	57.2
126.0	100.0	100.0	100.0	100.0	100.0	95.7	89.0	83.3	78.4	74.3	70.6	67.5	64.7	62.2	60.0	58.1	56.4	54.8	53.4
132.0	100.0	100.0	100.0	100.0	98.5	90.7	84.3	78.8	74.2	70.2	66.7	63.7	61.0	58.6	56.5	54.6	52.9	51.4	50.0
138.0	100.0	100.0	100.0	100.0	93.7	86.3	80.1	74.8	70.4	66.5	63.2	60.3	57.7	55.4	53.4	51.6	49.9	48.4	47.1
144.0	100.0	100.0	100.0	98.2	89.4	82.2	76.3	71.2	67.0	63.3	60.0	57.2	54.7	52.5	50.6	48.8	47.2	45.8	44.5
148.0	100.0	100.0	100.0	95.2	86.7	79.7	73.9	69.0	64.8	61.2	58.1	55.4	52.9	50.8	48.9	47.1	45.6	44.2	42.9
152.0	100.0	100.0	100.0	92.5	84.2	77.4	71.7	66.9	62.9	59.4	56.3	53.6	51.2	49.1	47.3	45.6	44.0	42.7	41.4
156.0	100.0	100.0	100.0	89.9	81.8	75.1	69.6	65.0	61.0	57.6	54.6	52.0	49.7	47.6	45.8	44.1	42.6	41.3	40.0
160.0	100.0	100.0	97.4	87.4	79.5	73.0	67.7	63.1	59.2	55.9	53.0	50.4	48.2	46.1	44.3	42.7	41.3	39.9	38.7
164.0	100.0	100.0	94.8	85.1	77.4	71.1	65.8	61.4	57.6	54.3	51.5	49.0	46.8	44.8	43.0	41.4	40.0	38.7	37.5
168.0	100.0	100.0	92.4	82.9	75.4	69.2	64.1	59.7	56.0	52.8	50.0	47.6	45.4	43.5	41.8	40.2	38.8	37.5	36.4
172.0	100.0	100.0	90.1	80.8	73.4	67.4	62.4	58.2	54.5	51.4	48.7	46.3	44.2	42.3	40.6	39.1	37.7	36.5	35.3
176.0	100.0	99.5	87.9	78.8	71.6	65.7	60.8	56.7	53.1	50.1	47.4	45.1	43.0	41.1	39.5	38.0	36.6	35.4	34.3
180.0	100.0	97.2	85.8	76.9	69.9	64.1	59.3	55.3	51.8	48.8	46.2	43.9	41.9	40.1	38.4	37.0	35.7	34.5	33.4
184.0	100.0	94.9	83.8	75.1	68.2	62.6	57.9	53.9	50.5	47.6	45.0	42.8	40.8	39.0	37.4	36.0	34.7	33.5	32.5
188.0	100.0	92.8	81.9	73.4	66.6	61.1	56.5	52.6	49.3	46.4	43.9	41.7	39.8	38.0	36.5	35.1	33.8	32.7	31.6
192.0	100.0	90.7	80.1	71.8	65.1	59.7	55.2	51.4	48.2	45.3	42.9	40.7	38.8	37.1	35.6	34.2	33.0	31.8	30.8
196.0	100.0	88.8	78.3	70.2	63.7	58.4	54.0	50.2	47.1	44.3	41.9	39.8	37.9	36.2	34.7	33.4	32.2	31.0	30.0

- NOTE:
- MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS. TYPICAL ELEVATIONS SHOWN AT RIGHT.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
 - TRIBUTARY WIDTH = $W = (A+B)/2$
 - REFER TO SHEETS 3-5 FOR INSTALLATION DETAILS.
 - WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
PH: +(843) 577-3348

TITLE:

CLIPPED MULLION
(WZ3)

1/2" X 6-1/2" ONE-WAY
DESIGN PRESSURE TABLES

PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com


BUILDING DROPS

REMARKS	BY	DATE

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.



FL #:

FL47465

DATE: 03.18.2025

DWG. BY: FB
CHK. BY: HFN

SCALE: NTS

DWG. #: MWA003

SHEET:

13

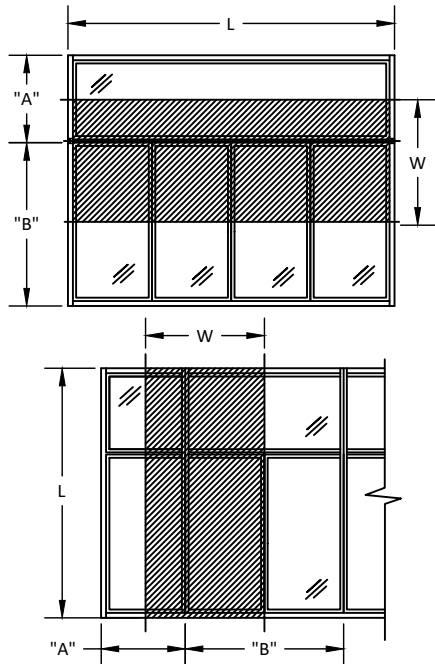
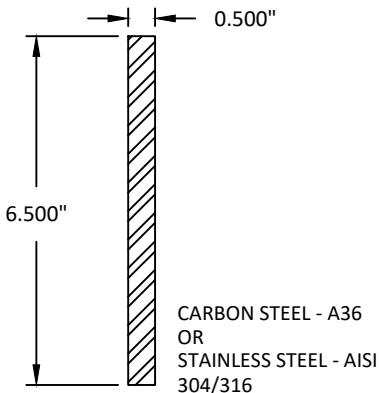
OF 14

1/2" X 6-1/2" STEEL STIFFENER

DESIGN PRESSURE CAPACITIES FOR TWO-WAY CONFIGURATIONS

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																			
1/2 x 6.5 STRUCTURAL MULLION (TWO-WAY) CONFIGURATION																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	91.5	87.3	83.5	80.1
63.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.3	91.5	87.1	83.2	79.6
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.0	91.9	87.3	83.2	79.4	76.0
69.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.3	92.8	87.9	83.5	79.6	76.0	72.6
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2	89.0	84.3	80.1	76.3	72.8	69.6
75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	90.4	85.4	80.9	76.9	73.2	69.9	66.8	64.1
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.5	92.4	86.9	82.1	77.8	73.9	70.4	67.2	64.3	61.6
81.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.9	89.0	83.7	79.1	74.9	71.2	67.8	64.7	61.9	59.3
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	91.5	85.8	80.7	76.3	72.2	68.6	65.4	62.4	59.7	57.2
87.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.7	88.3	82.8	78.0	73.6	69.7	66.3	63.1	60.2	57.6	55.2
90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.5	91.5	85.4	80.1	75.4	71.2	67.4	64.1	61.0	58.2	55.7	53.4
93.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.4	88.6	82.6	77.5	72.9	68.9	65.2	62.0	59.0	56.4	53.9	51.7
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.4	85.8	80.1	75.1	70.6	66.7	63.2	60.0	57.2	54.6	52.2	50.0
108.0	100.0	100.0	100.0	100.0	100.0	97.0	89.0	82.1	76.3	71.2	66.7	62.8	59.3	56.2	53.4	50.8	48.5	46.4	44.5
114.0	100.0	100.0	100.0	100.0	100.0	91.9	84.3	77.8	72.2	67.4	63.2	59.5	56.2	53.2	50.6	48.2	46.0	44.0	42.1
120.0	100.0	100.0	100.0	100.0	96.1	87.3	80.1	73.9	68.6	64.1	60.0	56.5	53.4	50.6	48.0	45.8	43.7	41.8	40.0
126.0	100.0	100.0	100.0	100.0	91.5	83.2	76.3	70.4	65.4	61.0	57.2	53.8	50.8	48.2	45.8	43.6	41.6	39.8	38.1
132.0	100.0	100.0	100.0	97.0	87.3	79.4	72.8	67.2	62.4	58.2	54.6	51.4	48.5	46.0	43.7	41.6	39.7	38.0	36.4
138.0	100.0	100.0	100.0	92.8	83.5	76.0	69.6	64.3	59.7	55.7	52.2	49.1	46.4	44.0	41.8	39.8	38.0	36.3	34.8
144.0	100.0	100.0	100.0	89.0	80.1	72.8	66.7	61.6	57.2	53.4	50.0	47.1	44.5	42.1	40.0	38.1	36.4	34.8	33.4
148.0	100.0	100.0	97.4	86.6	77.9	70.8	64.9	59.9	55.6	51.9	48.7	45.8	43.3	41.0	39.0	37.1	35.4	33.9	32.5
152.0	100.0	100.0	94.8	84.3	75.9	69.0	63.2	58.3	54.2	50.6	47.4	44.6	42.1	39.9	37.9	36.1	34.5	33.0	31.6
156.0	100.0	100.0	92.4	82.1	73.9	67.2	61.6	56.9	52.8	49.3	46.2	43.5	41.1	38.9	37.0	35.2	33.6	32.1	30.8
160.0	100.0	100.0	90.1	80.1	72.1	65.5	60.0	55.4	51.5	48.0	45.0	42.4	40.0	37.9	36.0	34.3	32.8	31.3	30.0
164.0	100.0	100.0	87.9	78.1	70.3	63.9	58.6	54.1	50.2	46.9	43.9	41.4	39.1	37.0	35.2	33.5	32.0	30.6	29.3
168.0	100.0	98.0	85.8	76.3	68.6	62.4	57.2	52.8	49.0	45.8	42.9	40.4	38.1	36.1	34.3	32.7	31.2	29.8	28.6
172.0	100.0	95.8	83.8	74.5	67.0	60.9	55.9	51.6	47.9	44.7	41.9	39.4	37.2	35.3	33.5	31.9	30.5	29.1	27.9
176.0	100.0	93.6	81.9	72.8	65.5	59.6	54.6	50.4	46.8	43.7	40.9	38.5	36.4	34.5	32.8	31.2	29.8	28.5	27.3
180.0	100.0	91.5	80.1	71.2	64.1	58.2	53.4	49.3	45.8	42.7	40.0	37.7	35.6	33.7	32.0	30.5	29.1	27.8	26.7
184.0	100.0	89.5	78.3	69.6	62.7	57.0	52.2	48.2	44.8	41.8	39.2	36.9	34.8	33.0	31.3	29.8	28.5	27.2	26.1
188.0	100.0	87.6	76.7	68.1	61.3	55.8	51.1	47.2	43.8	40.9	38.3	36.1	34.1	32.3	30.7	29.2	27.9	26.7	25.6
192.0	100.0	85.8	75.1	66.7	60.0	54.6	50.0	46.2	42.9	40.0	37.5	35.3	33.4	31.6	30.0	28.6	27.3	26.1	25.0
196.0	97.3	83.4	72.9	64.8	58.4	53.1	48.6	44.9	41.7	38.9	36.5	34.3	32.4	30.7	29.2	27.8	26.5	25.4	24.3

- NOTE:
- MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN TWO-WAY,'X' OR 'T' CONFIGURATIONS. TYPICAL ELEVATIONS SHOWN AT RIGHT.
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MILLWORK
artisans

4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
PH: +(843) 577-3348

TITLE:
CLIPPED MULLION
(WZ3)
1/2" X 6-1/2" TWO-WAY
DESIGN PRESSURE TABLES

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
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FAX: (954)744-4738
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BUILDING DROPS

REMARKS	BY	DATE

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FL #:
FL47465

DATE: **03.18.2025**

DWG. BY: **FB** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **MWA003**

SHEET: