

ATRIUM CORPORATION

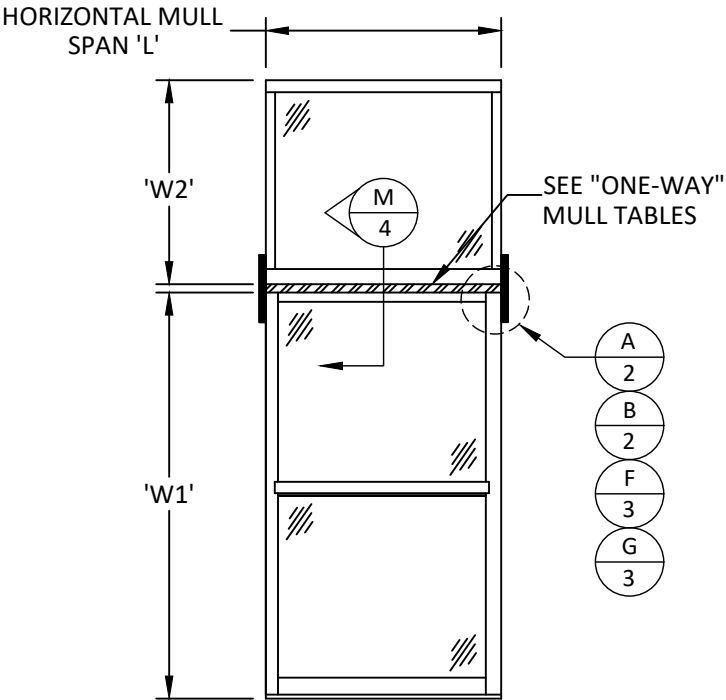
SERIES 130 1.25" TUBE MULLION (NON-HVHZ)(NON-IMPACT)

GENERAL NOTES:

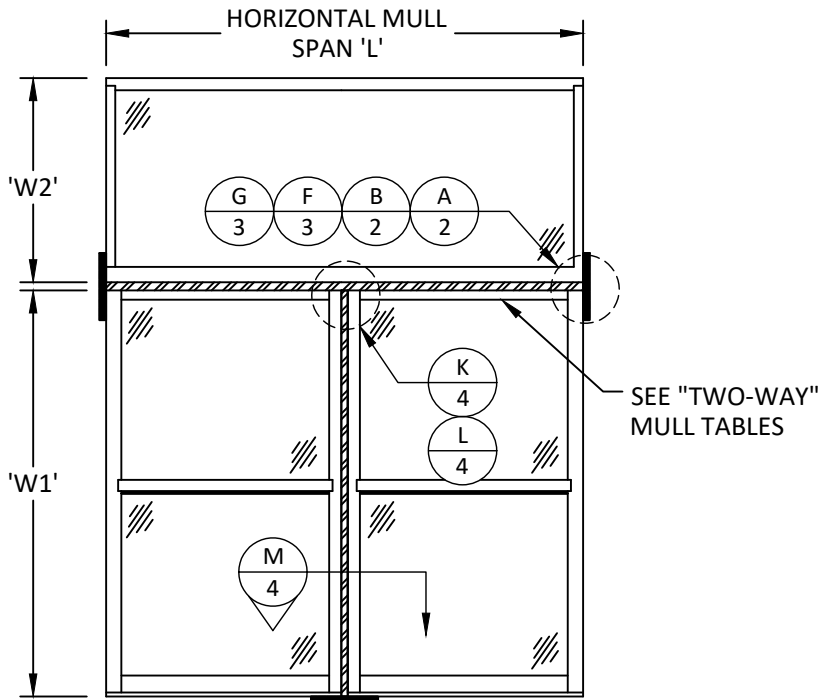
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ , AND HAVE BEEN EVALUATED TO 7TH EDITION (2020) FLORIDA BUILDING CODE, SECTION 1709.8.
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- MULLION & CLIP MATERIAL: ALUMINUM 6063-T6
- SEE SHEETS 5-8 FOR INSTALLATION ANCHOR REQUIREMENTS FOR SPECIFIC MULLION CONFIGURATIONS AND DESIGN LOAD CAPACITIES.
- IN ACCORDANCE WITH THE CURRENT FBC, DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED AS DEFINED IN CHAPTER 20.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
 - 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 YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

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

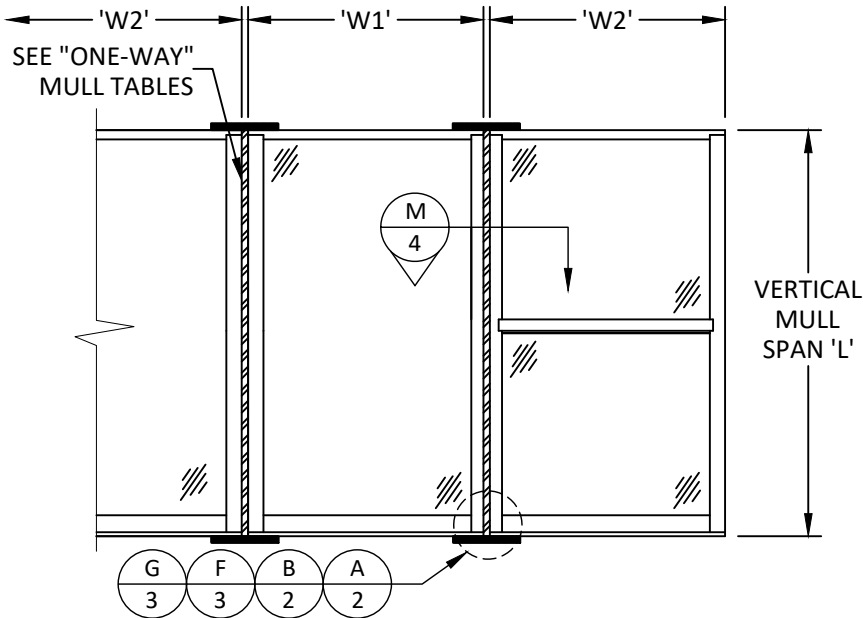
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7	TWO-WAY MULL TABLES (TAPCONS ONLY)
8	TWO-WAY MULL TABLES (ALL OTHER ANCHORS)



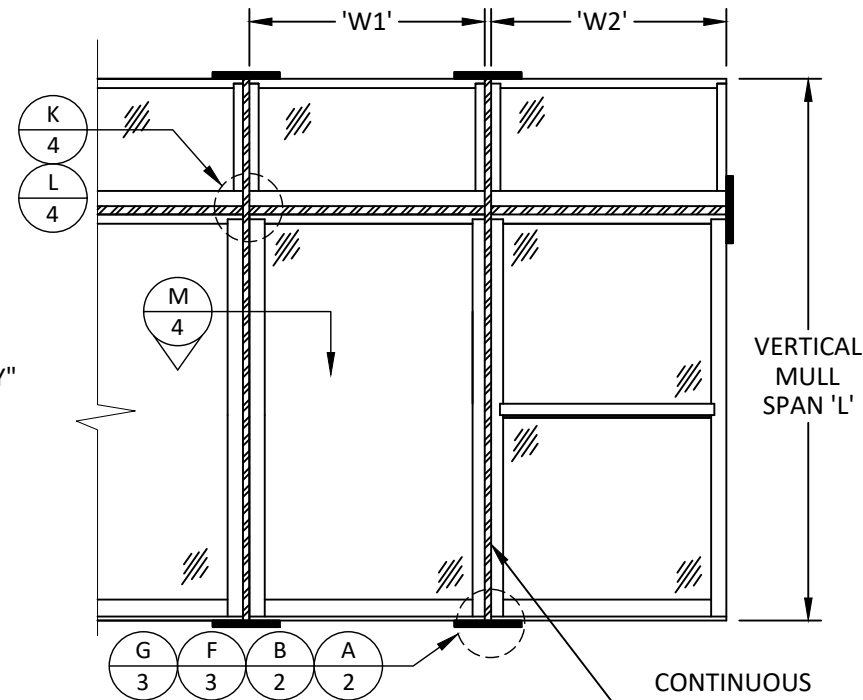
HORIZONTAL SPAN



HORIZONTAL "T" MULL SPAN



VERTICAL SPAN



VERTICAL SPAN



ATRIUM WINDOWS AND DOORS
9001 AMBASSADOR ROW
DALLAS, TEXAS 75247
PH: (214)637-2696 FAX: (214)424-6734

TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)(NON-IMPACT)

INSTALLATION, GENERAL NOTES & ELEVATIONS

PREPARED BY:

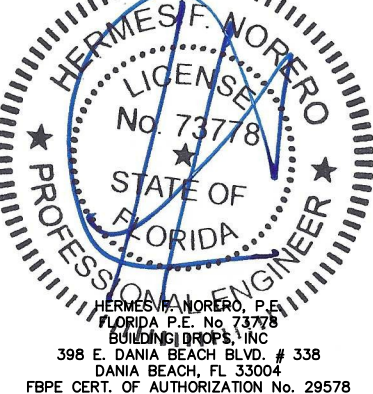
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
FBC 5th ED.CODE CHANGE	SM	06.03.14
ADDITIONAL SIZING	LS	04.14.16
FBC 2017 CODE CHANGE	AG	10.03.17
FBC 2020 CODE CHANGE	LL	11.11.20

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Digitally signed by Hermes F Norero
Reason: I am approving this document
Date: 2020.11.15 16:40:58 -0500



FL #: FL22377

DATE: 10.03.17

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SCALE: NTS

DWG. #: ATR110

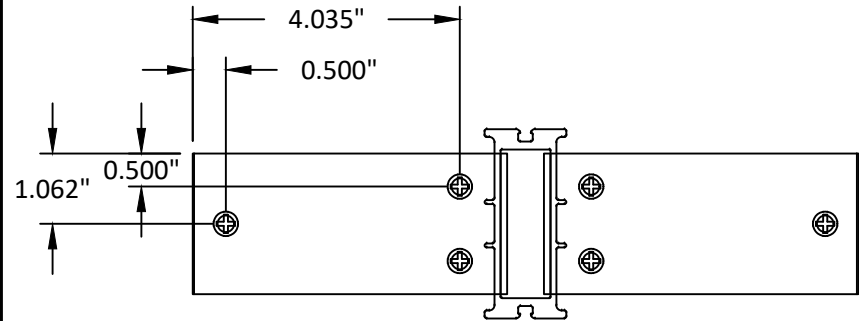
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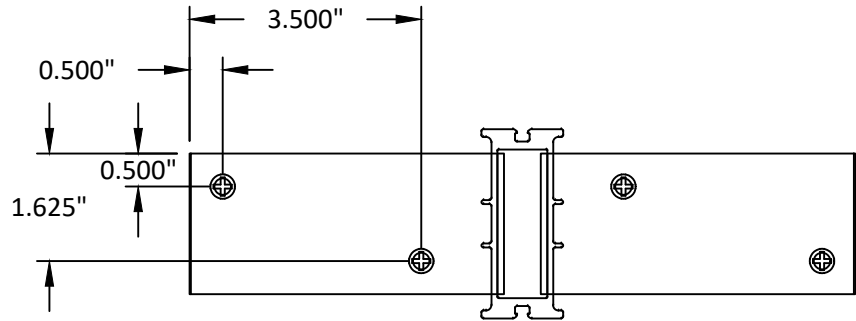
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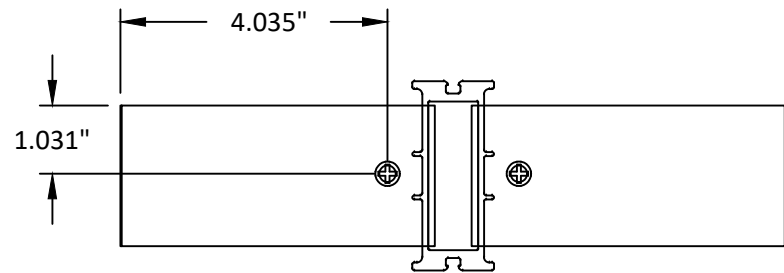
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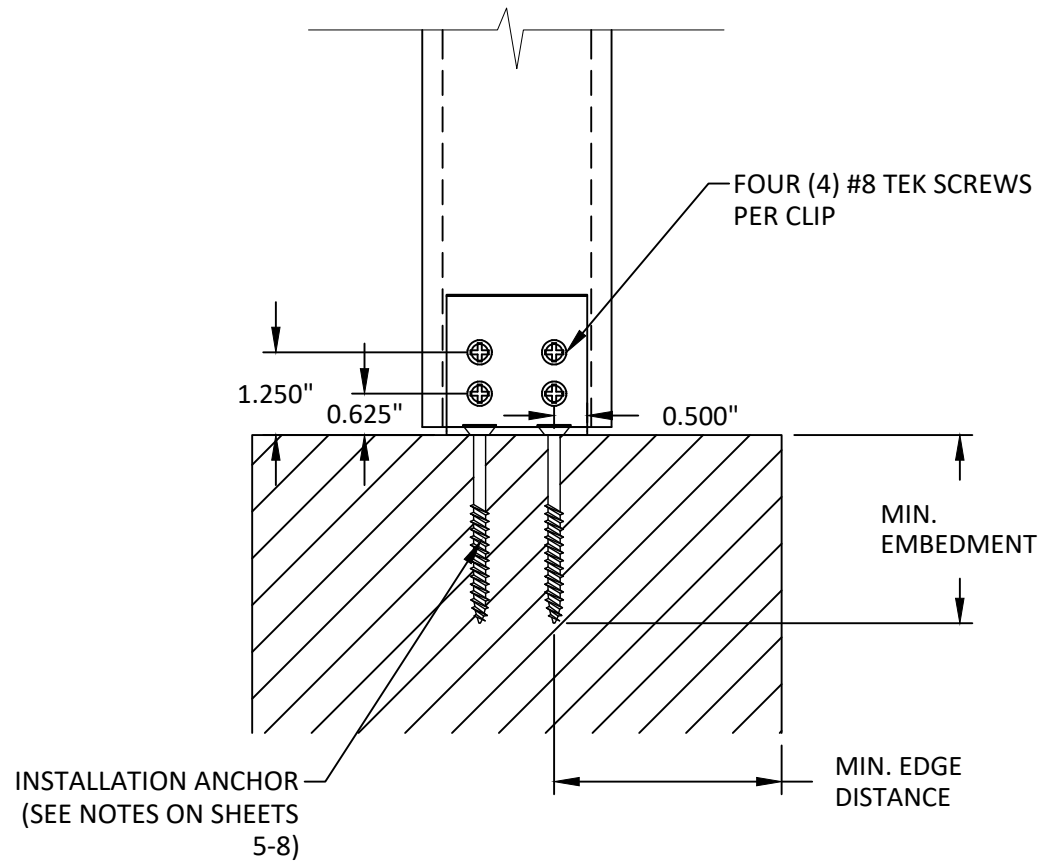
C
2 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
WOOD OR STEEL STUD INSTALLATION



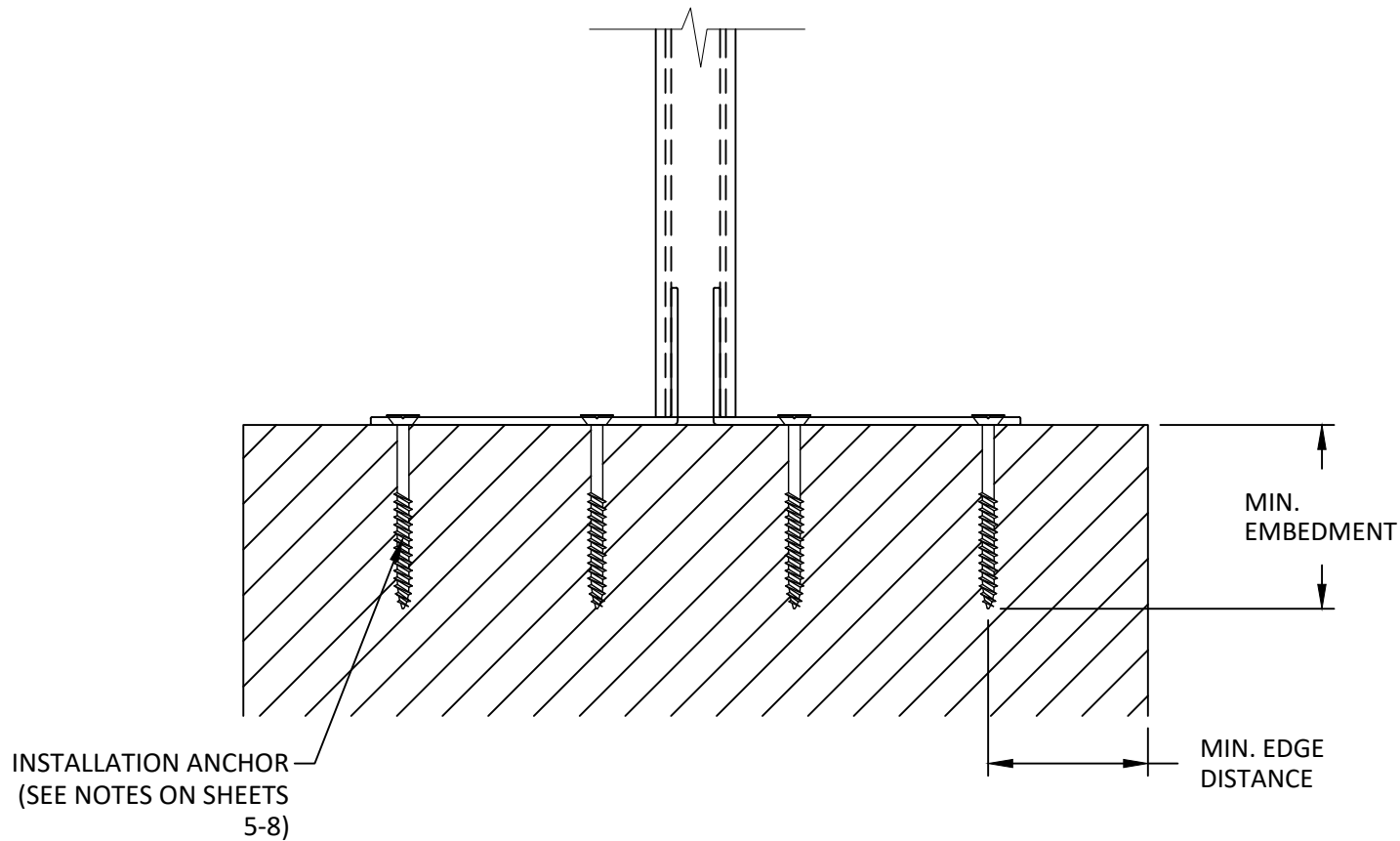
D
2 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
ITW TAPCONS INTO CONCRETE/MASONRY



E
2 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
HILTI KWIK BOLTS INTO CONCRETE/MASONRY



A
2 **SIDE VIEW**
MULLION W/ END CLIPS (ONE OR TWO WAY)
STANDARD CLIP



B
2 **FRONT VIEW**
MULLION W/ END CLIPS (ONE OR TWO WAY)
STANDARD CLIP

TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)/(NON-IMPACT)

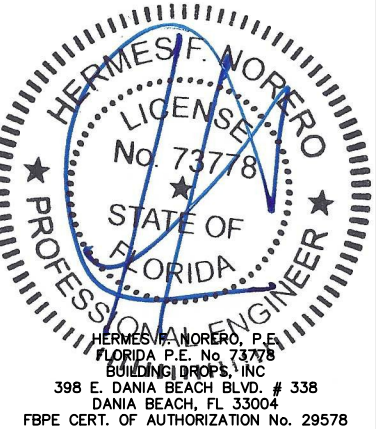
MULLION DETAILS
(STANDARD CLIP)

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398 E. DANIA BEACH BLVD., STE. 338
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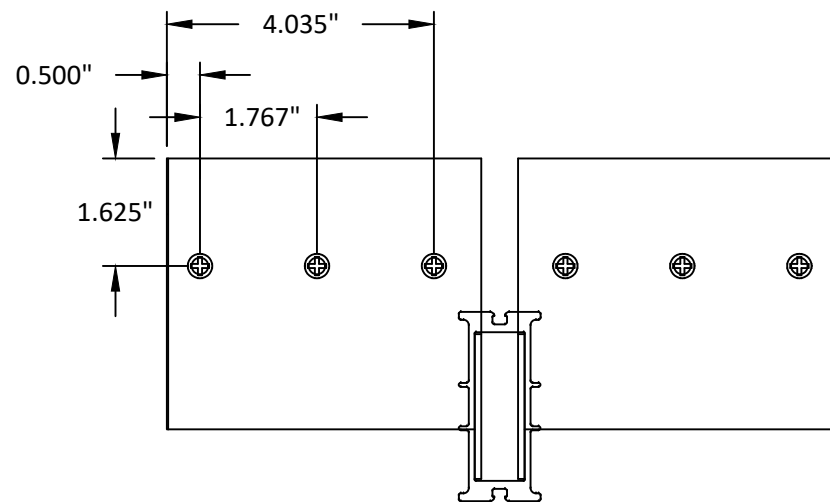
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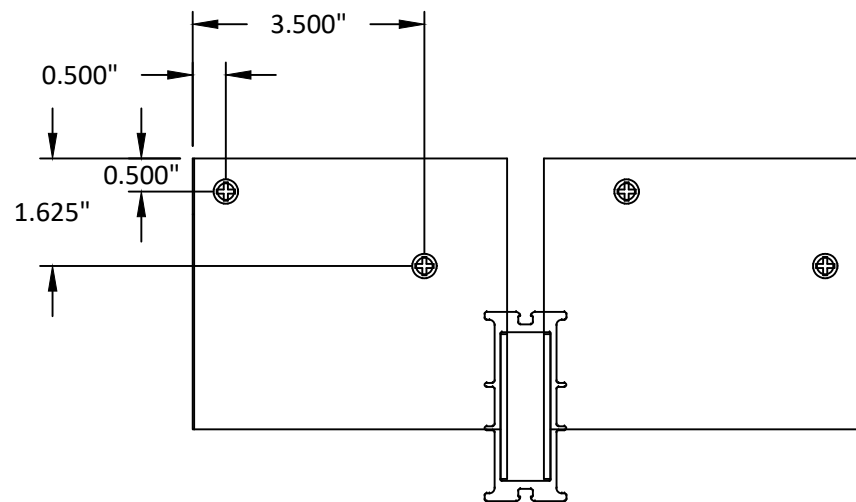
FL #:	FL22377
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR110
SECTION:	2

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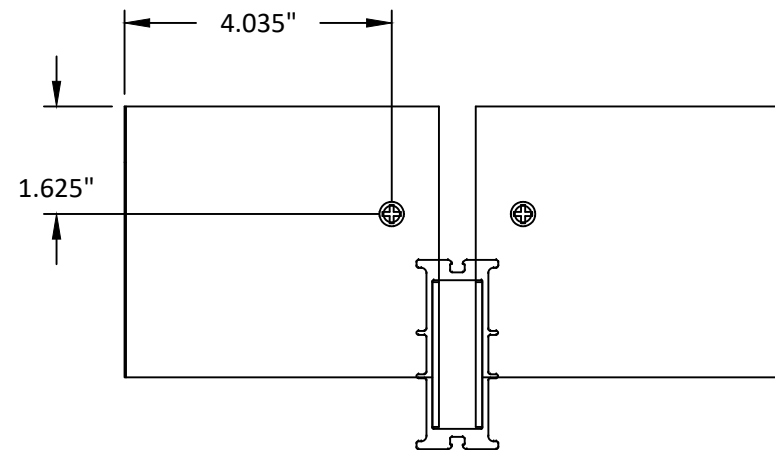
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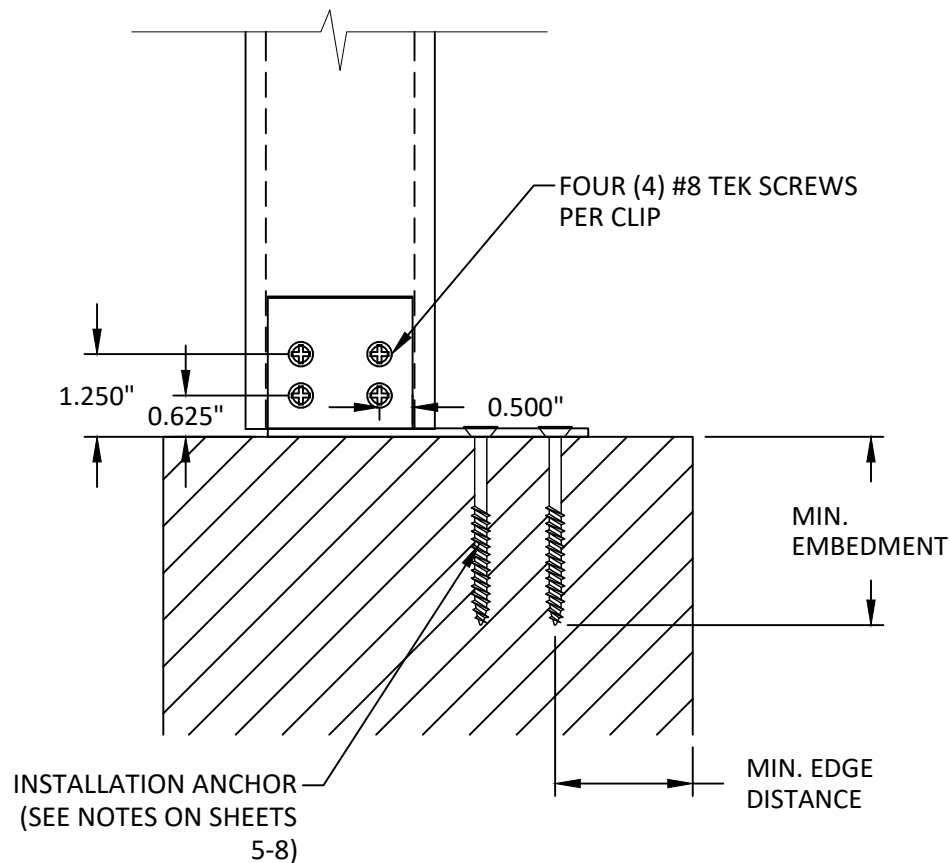
H
3 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
WOOD OR STEEL STUD INSTALLATION



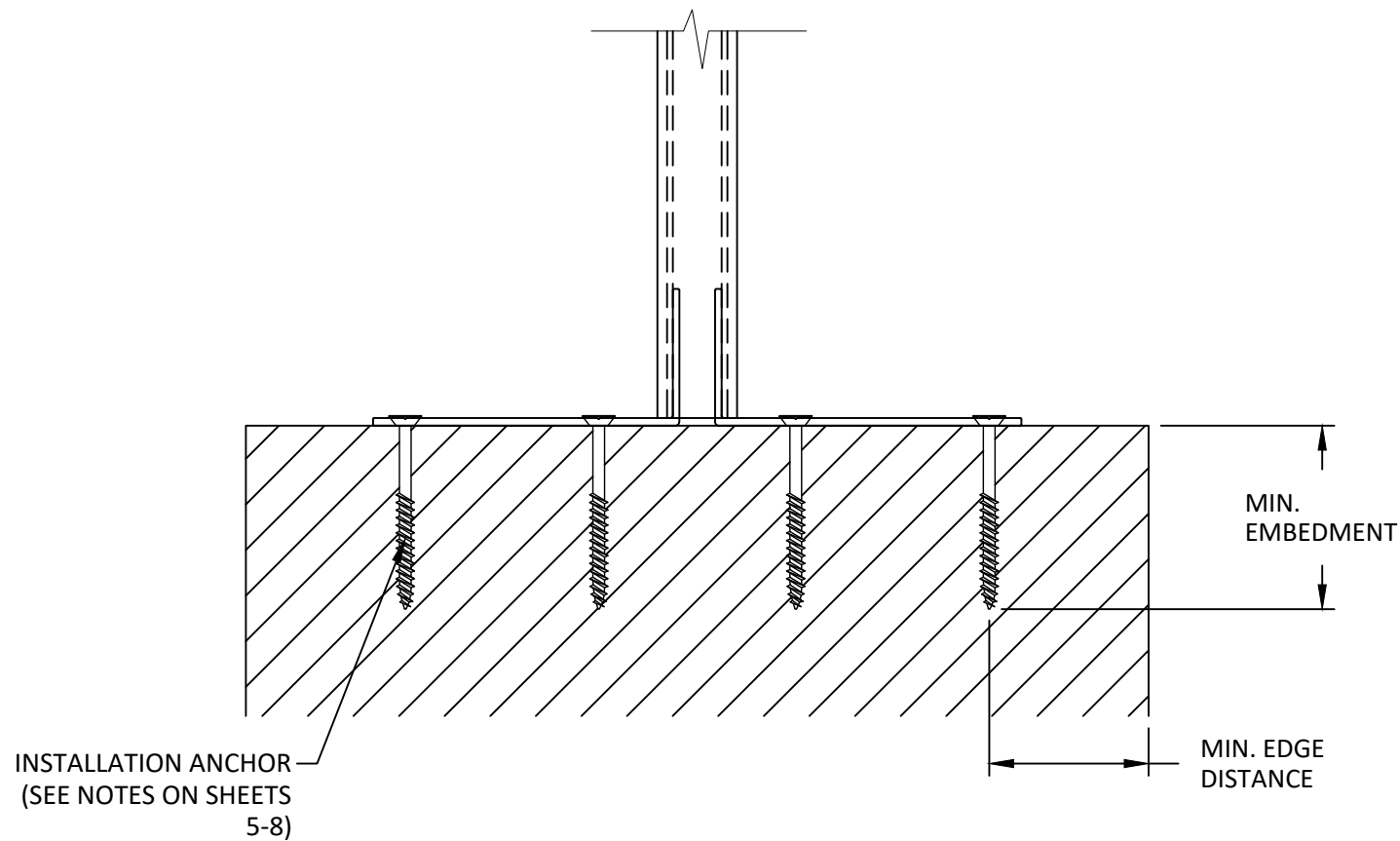
I
3 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
ITW TAPCONS INTO CONCRETE/MASONRY



J
3 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
HILTI KWIK BOLTS INTO CONCRETE/MASONRY



F
3 **SIDE VIEW**
MULLION W/ END CLIPS (ONE OR TWO WAY)
OFFSET CLIP



G
3 **FRONT VIEW**
MULLION W/ END CLIPS (ONE OR TWO WAY)
OFFSET CLIP

TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)(NON-IMPACT)

MULLION DETAILS
(OFFSET CLIP)

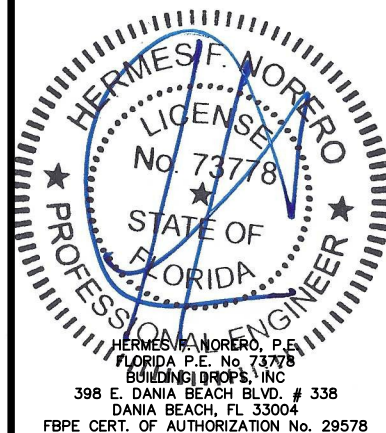
PREPARED BY:

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398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
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WEB: www.buildingdrops.com



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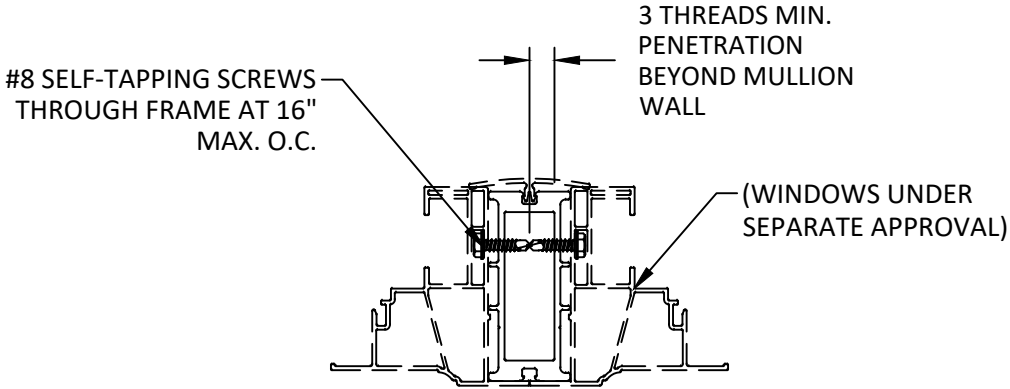
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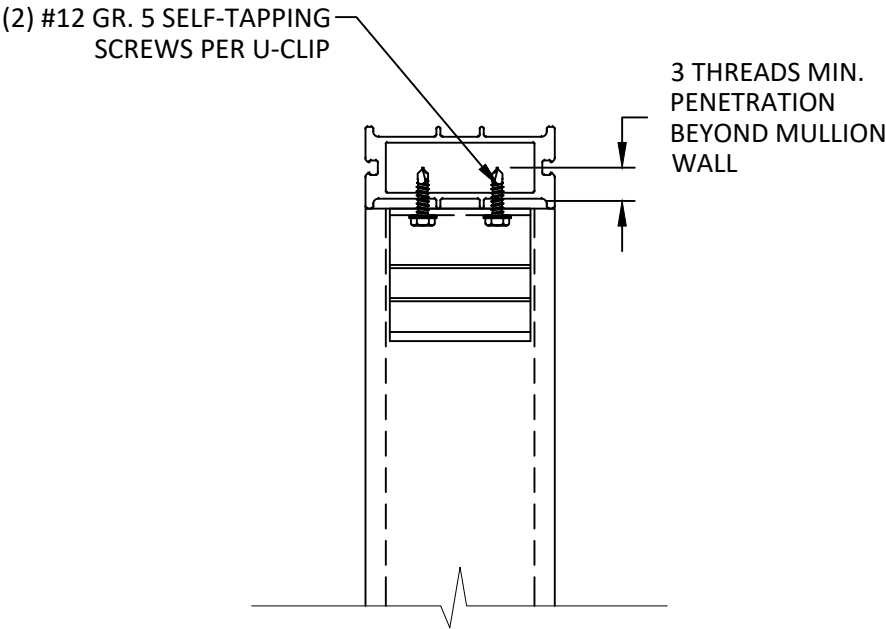
FL #:	FL22377
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DWG. BY:	AR/AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR110
SECTION:	

3

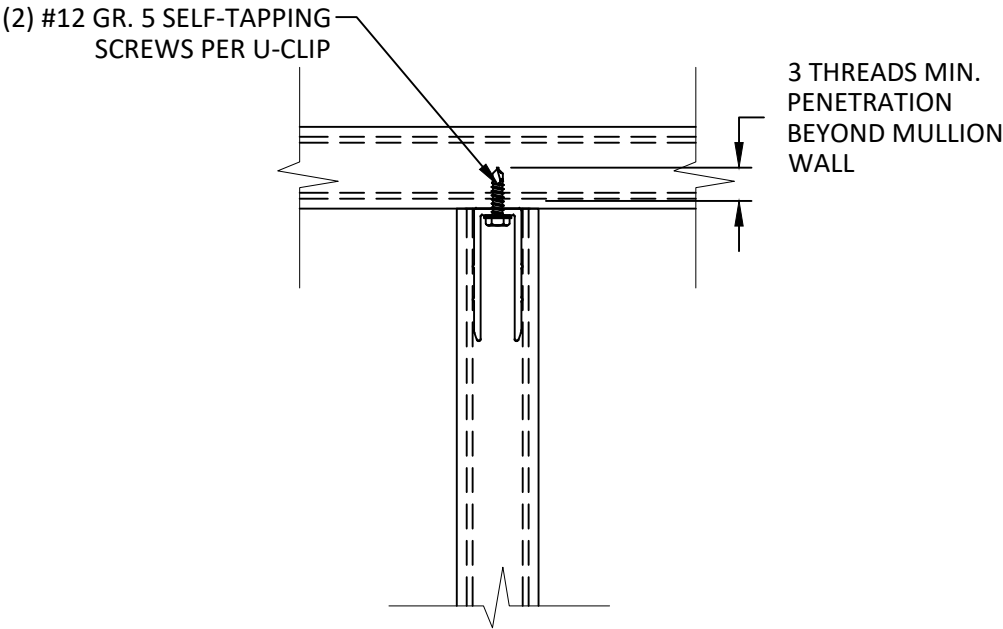
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M
4 **HORIZONTAL SECTION**
FRAME CONNECTION TO MULLION
TYPICAL



K
4 **SIDE VIEW**
MULLION WITH U-CLIP (TWO WAY)
TYPICAL



L
4 **FRONT VIEW**
MULLION WITH U-CLIP (TWO WAY)
TYPICAL

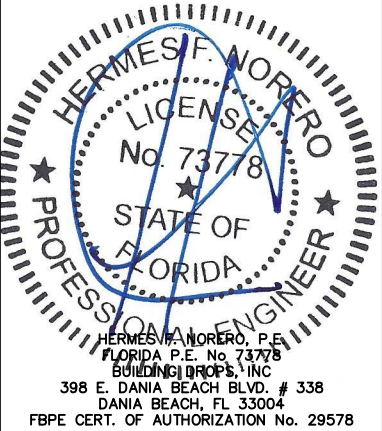
TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)(NON-IMPACT)

TWO-WAY DETAILS &
FRAME DETAIL

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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR110
SECTION:	4

Maximum design pressure capacity chart (psf)
One-Way Mullions (Tapcons only)

L - Mull Length (in)	W - Tributary Width (in)													
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42.0	150.0	150.0	143.7	134.5	127.8	123.0	119.8	117.3	117.3	117.3	117.3	117.3	117.3	117.3
48.0	147.4	131.4	119.8	111.1	104.5	99.6	95.8	91.3	89.8	89.8	89.8	89.8	89.8	89.8
54.0	127.8	113.3	102.7	94.6	88.5	83.6	79.9	74.7	71.9	71.0	71.0	71.0	71.0	71.0
60.0	112.7	99.6	89.8	82.4	76.7	72.1	68.4	63.2	59.9	58.1	57.5	57.5	57.5	57.5
66.0	100.9	88.8	79.9	73.0	67.6	63.4	59.9	54.8	51.3	49.1	47.9	47.5	47.5	47.5
72.0	91.3	80.1	71.9	65.5	60.5	56.5	53.2	48.3	44.9	42.6	41.1	40.2	39.9	39.9
78.0	83.3	73.0	65.1	58.4	53.2	49.0	45.5	40.3	36.6	34.0	32.2	31.0	30.3	30.1
84.0	68.0	58.7	51.8	46.5	42.2	38.8	36.0	31.7	28.7	26.5	24.9	23.7	23.0	22.5
90.0	55.2	47.6	41.9	37.6	34.1	31.3	29.0	25.5	22.9	21.0	19.6	18.6	17.9	17.4
96.0	45.4	39.1	34.4	30.8	28.0	25.6	23.7	20.8	18.6	17.0	15.8	-	-	-

NOTES:

1. MULLION CHART APPLIES TO MULLION ASSEMBLIES WHEN USED TO MULL WINDOWS IN ONE-WAY CONFIGURATIONS SHOWN ON SHEET 1 USING ITW TAPCON ANCHORS ONLY. SEE DETAILS D/2 & I/3.
2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3. MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL WINDOW UNITS OF INSTALLATION UNDER SEPARATE APPROVAL.
5. FOR CONCRETE/MASONRY INSTALLATION USE TWO (2) 1/4" DIAMETER ITW TAPCON SCREWS AT EACH ANCHOR CLIP. TAPCONS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 1-1/4" EMBEDMENT AND MINIMUM 2-1/2" EDGE DISTANCE. SEE DETAILS D/2 & I/3.

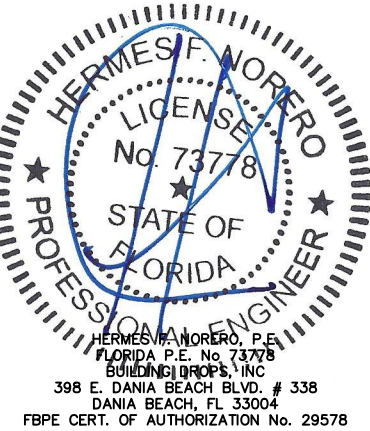


TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)(NON-IMPACT)
ONE-WAY MULL TABLES
(TAPCONS ONLY)

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

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FL22377

DATE: **10.03.17**

DWG. BY: **AR/AG** | CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **ATR110**

SECTION:
5

OF 8

Maximum design pressure capacity chart (psf)
One-Way Mullions (All other anchors)

L - Mull Length (in)	W - Tributary Width (in)													
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	148.3	148.3	148.3	148.3	148.3	148.3
54.0	150.0	150.0	150.0	150.0	146.0	138.0	131.8	123.2	118.6	117.1	117.1	117.1	117.1	117.1
60.0	150.0	150.0	146.8	132.8	121.9	113.3	106.4	96.5	90.4	87.1	86.0	86.0	86.0	86.0
66.0	142.0	123.1	109.1	98.4	90.0	83.3	77.9	69.9	64.6	61.2	59.4	58.7	58.7	58.7
72.0	108.8	94.2	83.3	74.9	68.4	63.1	58.8	52.3	47.9	44.9	42.9	41.8	41.5	41.5
78.0	85.2	73.7	65.1	58.4	53.2	49.0	45.5	40.3	36.6	34.0	32.2	31.0	30.3	30.1
84.0	68.0	58.7	51.8	46.5	42.2	38.8	36.0	31.7	28.7	26.5	24.9	23.7	23.0	22.5
90.0	55.2	47.6	41.9	37.6	34.1	31.3	29.0	25.5	22.9	21.0	19.6	18.6	17.9	17.4
96.0	45.4	39.1	34.4	30.8	28.0	25.6	23.7	20.8	18.6	17.0	15.8	-	-	-

NOTES:

1. MULLION CHART APPLIES TO MULLION ASSEMBLIES WHEN USED TO MULL WINDOWS IN ONE-WAY CONFIGURATIONS SHOWN ON SHEET 1 USING ALL OTHER ANCHOR OPTIONS. SEE DETAILS C/2, E/2, H/3, & J/3.
2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3. MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL WINDOW UNITS OF INSTALLATION UNDER SEPARATE APPROVAL.
5. FOR WOOD FRAME INSTALLATION USE THREE (3) #14 WOOD SCREWS AT EACH ANCHOR CLIP. WOOD SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 1-1/2" EMBEDMENT AND MINIMUM 3/4" EDGE DISTANCE. SEE DETAILS C/2 & H/3.
6. FOR STEEL STUD INSTALLATION USE THREE (3) 1/4" TEK SCREWS AT EACH ANCHOR CLIP. TEK SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND STEEL STRUCTURE EMBEDMENT AND MINIMUM 1/2" EDGE DISTANCE. SEE DETAILS C/2 & H/3.
5. FOR CONCRETE INSTALLATION USE ONE (1) 3/8" DIAMETER HILTI KWIK BOLT III EXPANSION ANCHOR AT EACH ANCHOR CLIP. BOLTS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 2-1/2" EMBEDMENT AND MINIMUM 2-1/2" EDGE DISTANCE. SEE DETAILS E/2 & J/3.
6. FOR GROUT-FILLED CMU INSTALLATION USE ONE (1) 3/8" DIAMETER HILTI KWIK BOLT III EXPANSION ANCHOR AT EACH ANCHOR CLIP. BOLTS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 2-1/2" EMBEDMENT AND MINIMUM 3-1/2" EDGE DISTANCE. SEE DETAILS E/2 & J/3

ATRTRIUM

WINDOWS AND DOORS

ATRIUM WINDOWS AND DOORS

9001 AMBASSADOR ROW
DALLAS, TEXAS 75247

PH: (214)637-2696 FAX: (214)424-6734

TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)(NON-IMPACT)
ONE-WAY MULL TABLES
(ALL OTHER ANCHORS)

PREPARED BY:

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DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
FBC 5th ED.CODE CHANGE	SM	06.03.14
ADDITIONAL SIZING	LS	04.14.16
FBC 2017 CODE CHANGE	AG	10.03.17
FBC 2020 CODE CHANGE	LL	11.11.20

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HERMES F. NORERO

LICENSEE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.

FLORIDA P.E. No. 73778

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD. # 338

DANIA BEACH, FL 33004

FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL22377

DATE: **10.03.17**

DWG. BY: **AR/AG**CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **ATR110**

SECTION:
6

OF 8

Maximum design pressure capacity chart (psf)
Two-Way Mullions (Tapcons Only)

L - Mull Length (in)	W - Tributary Width (in)														
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	54.0	55.0	60.0	66.0	72.0	78.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.7	130.7	119.8	110.6
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.7	127.8	125.4	115.0	104.5	95.8	88.5
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	136.9	119.8	106.5	104.5	95.8	87.1	79.9	73.7
42.0	150.0	150.0	150.0	150.0	150.0	149.3	136.9	117.3	102.7	91.3	89.6	82.1	74.7	68.4	63.2
48.0	150.0	150.0	150.0	150.0	143.7	130.7	119.8	102.7	89.8	79.9	78.4	71.9	65.3	59.9	55.3
54.0	150.0	150.0	150.0	142.0	127.8	116.2	106.5	91.3	79.9	71.0	69.7	63.9	58.1	53.2	49.1
60.0	150.0	150.0	137.5	122.2	110.0	100.0	91.7	78.6	68.8	61.1	60.0	55.0	50.0	45.8	42.3
66.0	137.8	118.1	103.3	91.8	82.7	75.1	68.9	59.0	51.7	45.9	45.1	41.3	37.6	34.4	31.8
72.0	106.1	91.0	79.6	70.7	63.7	57.9	53.1	45.5	39.8	35.4	34.7	31.8	28.9	26.5	24.5
74.0	97.7	83.8	73.3	65.2	58.6	53.3	48.9	41.9	36.7	32.6	32.0	29.3	26.7	24.4	22.6
78.0	83.5	71.5	62.6	55.6	50.1	45.5	41.7	35.8	31.3	27.8	27.3	25.0	22.8	20.9	19.3
84.0	66.8	57.3	50.1	44.6	40.1	36.5	33.4	28.6	25.1	22.3	21.9	20.0	18.2	16.7	15.4
90.0	54.3	46.6	40.7	36.2	32.6	29.6	27.2	23.3	20.4	18.1	17.8	16.3	-	-	-
96.0	44.8	38.4	33.6	29.8	26.9	24.4	22.4	19.2	16.8	-	-	-	-	-	-

NOTES:

1. MULLION CHART APPLIES TO MULLION ASSEMBLIES WHEN USED TO MULL WINDOWS IN TWO-WAY CONFIGURATIONS SHOWN ON SHEET 1 USING ITW TAPCON ANCHORS ONLY. SEE DETAILS D/2, I/3, K/4 & L/4.
2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3. MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL WINDOW UNITS OF INSTALLATION
5. FOR CONCRETE/MASONRY INSTALLATION USE TWO (2) 1/4" DIAMETER ITW TAPCON SCREWS AT EACH ANCHOR CLIP. TAPCONS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 1-1/4" EMBEDMENT AND MINIMUM 2-1/2" EDGE DISTANCE. SEE DETAILS D/2 & I/3.
6. FOR TWO-WAY CONNECTION OF U-CLIP TO MULLION USE TWO (2) 1/4" TEK SCREWS AT EACH ANCHOR CLIP. TEK SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND ALUMINUM MULLION STRUCTURE. SEE DETAILS K/4 & L/4.

ATRTRIUM

WINDOWS AND DOORS

ATRIUM WINDOWS AND DOORS

9001 AMBASSADOR ROW
DALLAS, TEXAS 75247
PH: (214)637-2696 FAX: (214)424-6734

TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)/(NON-IMPACT)
TWO-WAY MULL TABLES
(TAPCONS ONLY)

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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DWG. #: **ATR110**

SECTION:
7

OF 8

Maximum design pressure capacity chart (psf)
Two-Way Mullions (All other anchors)

L - Mull Length (in)	W - Tributary Width (in)														
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	54.0	55.0	60.0	66.0	72.0	78.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	146.0
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.8	131.8	121.6
42.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.1	140.5	128.8	117.1	107.3	99.1
48.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	140.9	123.3	109.6	107.6	98.6	89.7	82.2	75.9
54.0	150.0	150.0	150.0	150.0	150.0	137.2	125.8	107.8	94.3	83.8	82.3	75.5	68.6	62.9	58.0
60.0	150.0	150.0	137.5	122.2	110.0	100.0	91.7	78.6	68.8	61.1	60.0	55.0	50.0	45.8	42.3
66.0	137.8	118.1	103.3	91.8	82.7	75.1	68.9	59.0	51.7	45.9	45.1	41.3	37.6	34.4	31.8
72.0	106.1	91.0	79.6	70.7	63.7	57.9	53.1	45.5	39.8	35.4	34.7	31.8	28.9	26.5	24.5
74.0	97.7	83.8	73.3	65.2	58.6	53.3	48.9	41.9	36.7	32.6	32.0	29.3	26.7	24.4	22.6
78.0	83.5	71.5	62.6	55.6	50.1	45.5	41.7	35.8	31.3	27.8	27.3	25.0	22.8	20.9	19.3
84.0	66.8	57.3	50.1	44.6	40.1	36.5	33.4	28.6	25.1	22.3	21.9	20.0	18.2	16.7	15.4
90.0	54.3	46.6	40.7	36.2	32.6	29.6	27.2	23.3	20.4	18.1	17.8	16.3	-	-	-
96.0	44.8	38.4	33.6	29.8	26.9	24.4	22.4	19.2	16.8	-	-	-	-	-	-

NOTES:

1. MULLION CHART APPLIES TO MULLION ASSEMBLIES WHEN USED TO MULL WINDOWS IN TWO-WAY CONFIGURATIONS SHOWN ON SHEET 1 USING ALL OTHER ANCHOR OPTIONS. SEE DETAILS C/2, E/2, H/3, J/3, K/4, & L/4.
2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3. MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL WINDOW UNITS OF INSTALLATION UNDER SEPARATE APPROVAL.
5. FOR WOOD FRAME INSTALLATION USE THREE (3) #14 WOOD SCREWS AT EACH ANCHOR CLIP. WOOD SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 1-1/2" EMBEDMENT AND MINIMUM 3/4" EDGE DISTANCE. SEE DETAILS C/2 & H/3.
6. FOR STEEL STUD INSTALLATION USE THREE (3) 1/4" TEK SCREWS AT EACH ANCHOR CLIP. TEK SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND STEEL STRUCTURE EMBEDMENT AND MINIMUM 1/2" EDGE DISTANCE. SEE DETAILS C/2 & H/3.
5. FOR CONCRETE INSTALLATION USE ONE (1) 3/8" DIAMETER HILTI KWIK BOLT III EXPANSION ANCHOR AT EACH ANCHOR CLIP. BOLTS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 2-1/2" EMBEDMENT AND MINIMUM 2-1/2" EDGE DISTANCE. SEE DETAILS E/2 & J/3.
6. FOR GROUT-FILLED CMU INSTALLATION USE ONE (1) 3/8" DIAMETER HILTI KWIK BOLT III EXPANSION ANCHOR AT EACH ANCHOR CLIP. BOLTS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 2-1/2" EMBEDMENT AND MINIMUM 3-1/2" EDGE DISTANCE. SEE DETAILS E/2 & J/3.
7. FOR TWO-WAY CONNECTION OF U-CLIP TO MULLION USE TWO (2) 1/4" TEK SCREWS AT EACH ANCHOR CLIP. TEK SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND ALUMINUM MULLION STRUCTURE. SEE DETAILS K/4 & L/4.

ATR[®]U[®]M

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DALLAS, TEXAS 75247
PH: (214)637-2696 FAX: (214)424-6734

TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
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TWO-WAY MULL TABLES
(ALL OTHER ANCHORS)

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SECTION:

8

OF 8