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# JELD-WEN, inc.

## CUSTOM COLLECTION

### 1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)



JELD-WEN, inc.  
3737 LAKEPORT BOULEVARD  
KLAMATH FALLS, OR 97601  
PH: (541) 882-3451 FX: (541) 850-2609

**INSTALLATION NOTES:**

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. FOR INSTALLATION INTO 2X WOOD FRAMING USE MINIMUM #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2" MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. MINIMUM EDGE DISTANCE OF 1/2" SHALL BE MAINTAINED.
6. FOR INSTALLATION INTO CONCRETE/MASONRY, USE 3/16" ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1-3/4" MINIMUM EMBEDMENT INTO CONCRETE/MASONRY. MINIMUM EDGE DISTANCE OF 2-1/4" SHALL BE MAINTAINED.
7. FOR INSTALLATION INTO METAL STUD, USE #10 TEK SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM 3 THREADS PENETRATION BEYOND METAL STRUCTURAL ELEMENT. MINIMUM 1/2" EDGE DISTANCE SHALL BE MAINTAINED.
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
8. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
9. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
10. 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.
11. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
  - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - C. CMU - STRENGTH CONFORMANCE TO ASTM C90.
  - D. STEEL - MIN. 18 GAUGE F<sub>y</sub>=33 KSI

**GENERAL NOTES:**

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94
  - ASTM E1886-13
  - ASTM E1996-14
  - AAMA/WDMA/CSA 101/I.S.2/A440-08
  - AAMA 450-10
2. 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.
3. 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.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE RER.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** FOR THIS PRODUCT IN **WIND BORNE DEBRIS REGIONS IN THE HVHZ OR ZONE 4 OR LESS**. INDIVIDUAL WINDOW UNITS MUST BE IMPACT RATED WHERE APPLICABLE.
6. MULLION MATERIAL: 6063-T6
7. DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED AS DEFINED IN CHAPTER 23 OF THE CURRENT FBC.

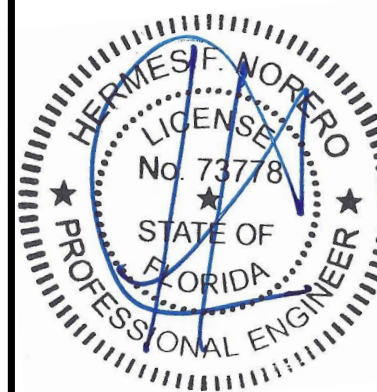
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TITLE: CUSTOM COLLECTION  
1" ALUMINUM CLIPPED MULLION  
(HVHZ) (IMPACT)  
INSTALLATION  
& GENERAL NOTES

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
6TH FBC CODE CHANGE	CL	8.31.17
ANCHOR UPDATE	SM	4.17.19
7TH FBC CODE CHANGE	SR	3.30.20
8TH FBC CODE CHANGE	MG	2.06.23

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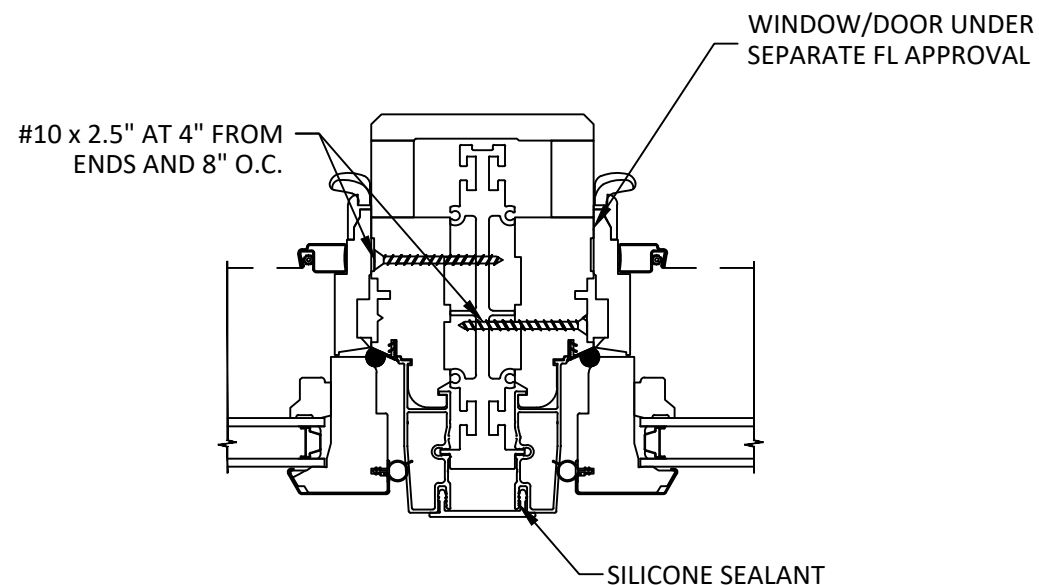
HERMES F. NORERO, P.E.  
FLORIDA P.E. No 73778  
BUILDING DROPS, INC  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
FBPE CERT. OF AUTHORIZATION No. 29578

DATE: **08.31.17**

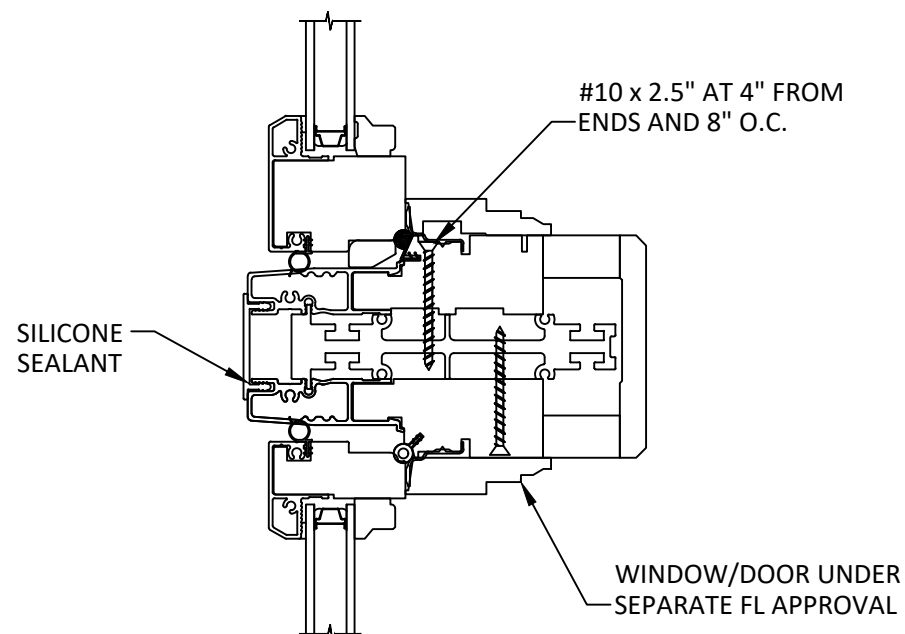
DWG. BY: <b>CL</b>	CHK. BY: <b>HFN</b>
SCALE: <b>NTS</b>	
DWG. #: <b>JW055</b>	
SHEET: <b>1</b>	

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**A**  
**2** **HORIZONTAL SECTION**  
TYP. VERTICAL MULLION



**B**  
**2** **VERTICAL SECTION**  
TYPICAL HORIZONTAL MULLION

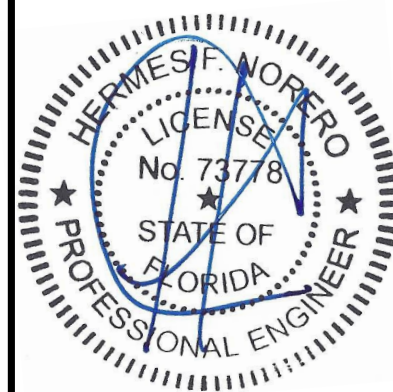
- MULLION NOTES:**
1. WINDOW UNIT SHOWN ON THIS SHEET IS TYPICAL AND SHALL BE USED FOR DIAGRAMMATIC PURPOSES ONLY. ALL WINDOW AND DOOR PRODUCTS TO BE MULLED TO 1" CLIPPED ALUMINUM MULLION EXTRUSION SHALL BE UNDER SEPARATE FL APPROVAL.
  2. MULLION SHOWN HEREIN MAY BE USED WITH APPROVED WINDOW OR DOOR PRODUCTS WHICH ARE COMPATIBLE WITH 1" MULLION EXTRUSION (E.G. CUSTOM COLLECTION & CUSTOM CLAD PRODUCTS)
  3. INSTALLATION SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR SEALING & ASSEMBLY. SHOULD MANUFACTURER'S INSTALLATION INSTRUCTION AND THOSE SHOWN HEREIN DEVIATE, THE DRAWINGS HEREIN SHALL GOVERN.

TITLE: CUSTOM COLLECTION  
1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)  
TYPICAL VERTICAL & HORIZONTAL SECTIONS

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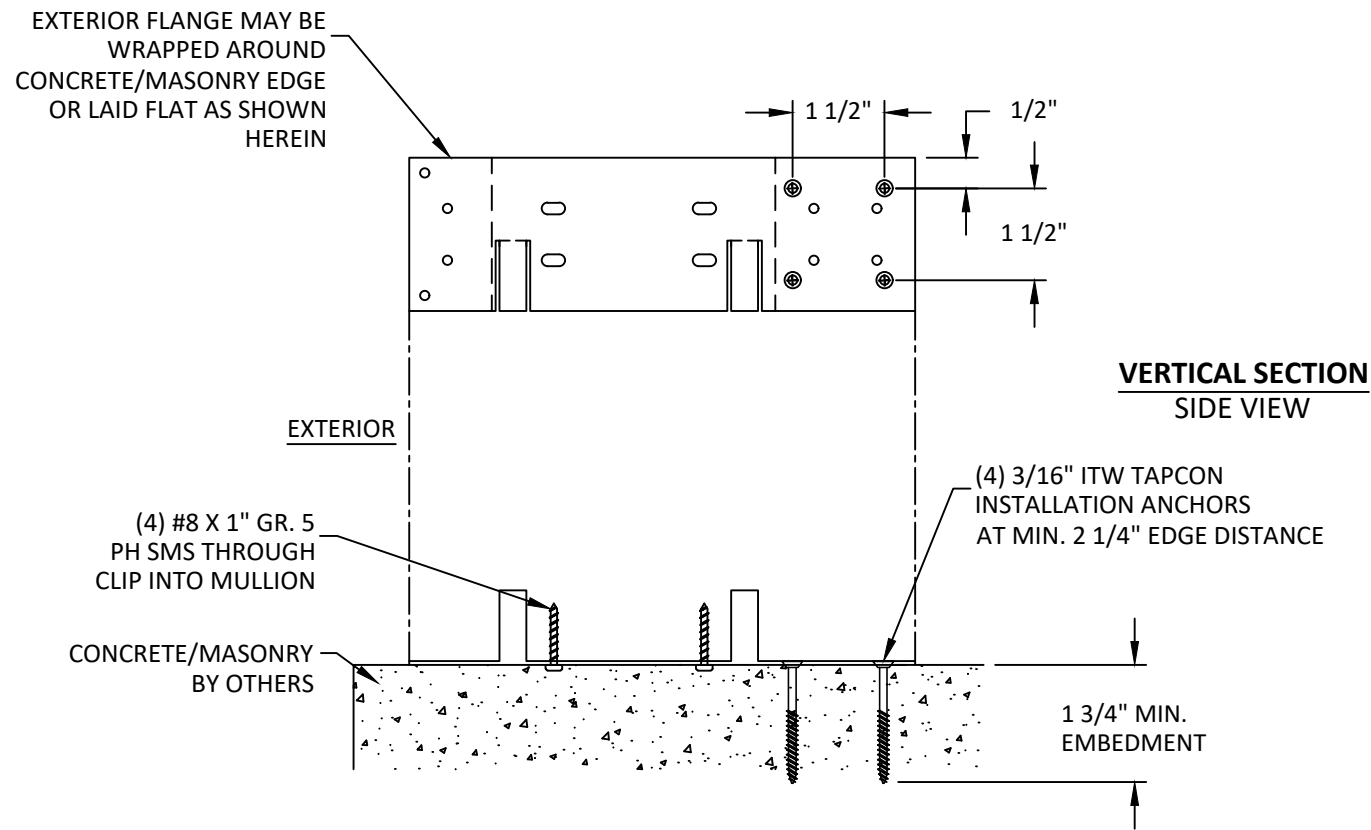


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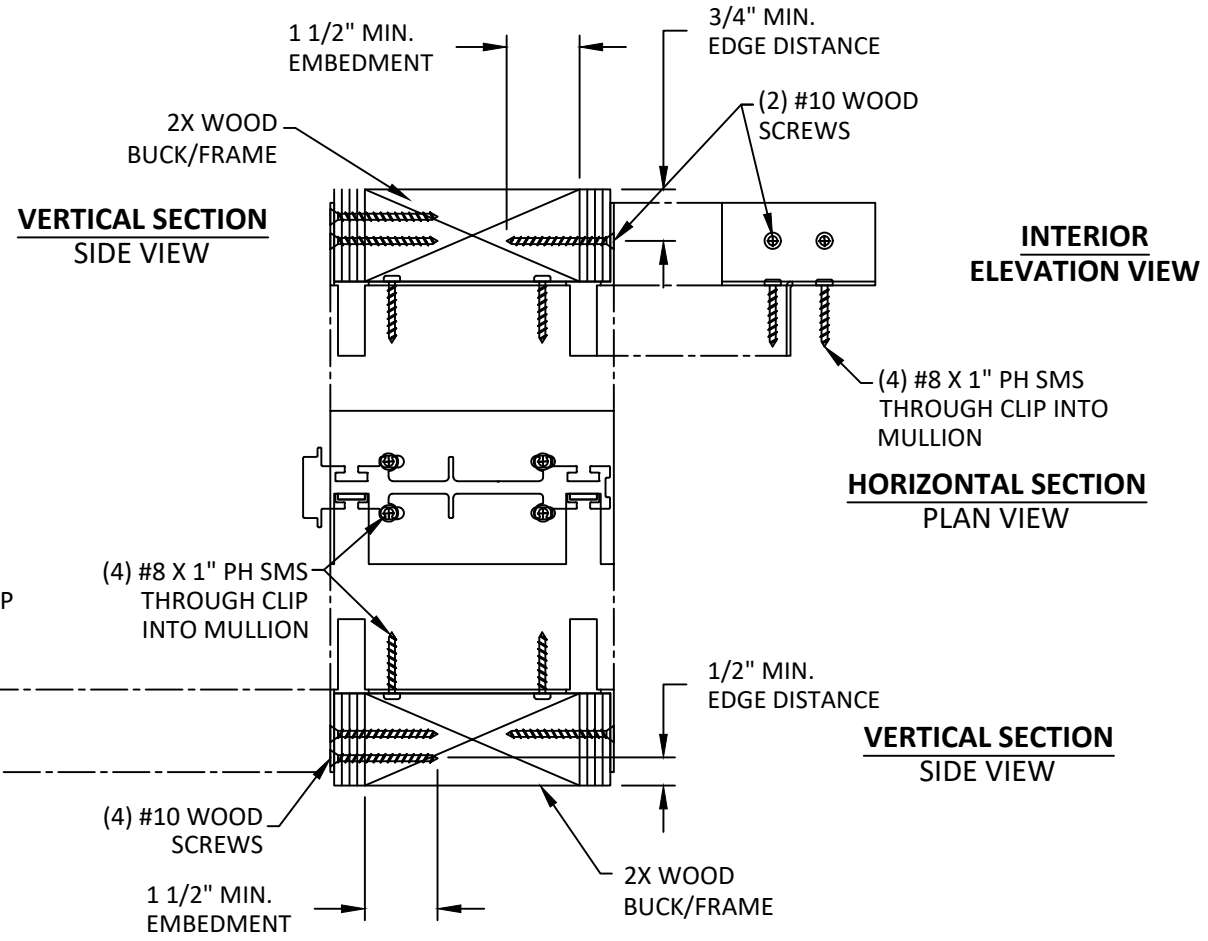
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SCALE:	NTS	
DWG. #:	JW055	

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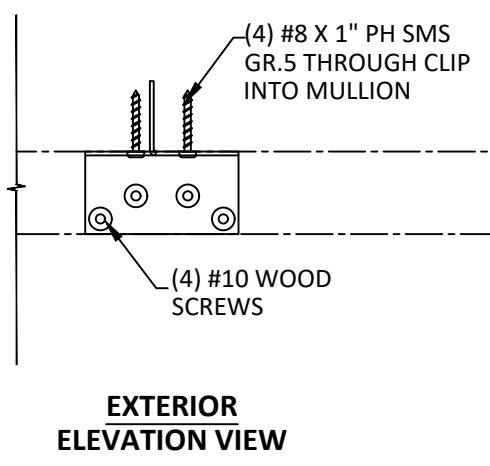
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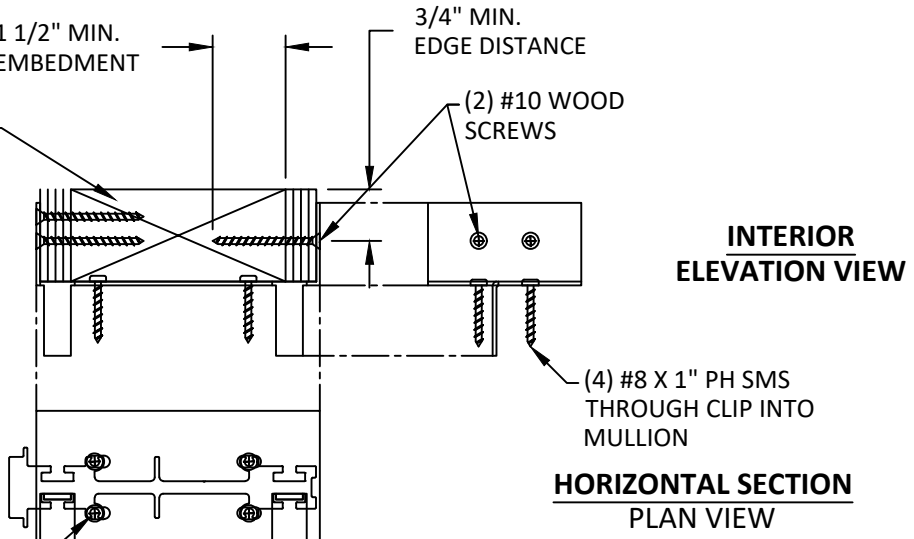
**B**  
**3**  
**MULLION INSTALLATION**  
ALTERNATE CLIP MULLION INSTALLATION  
2X BUCK OR CONCRETE/MASONRY



**A**  
**3**  
**MULLION INSTALLATION**  
STANDARD CLIP MULLION INSTALLATION  
2X WOOD BUCK OR FRAMING



**EXTERIOR ELEVATION VIEW**



**INTERIOR ELEVATION VIEW**

**HORIZONTAL SECTION PLAN VIEW**

**VERTICAL SECTION SIDE VIEW**



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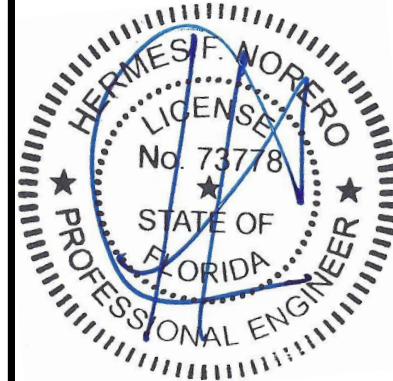
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1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)  
CLIP INSTALLATION DETAILS

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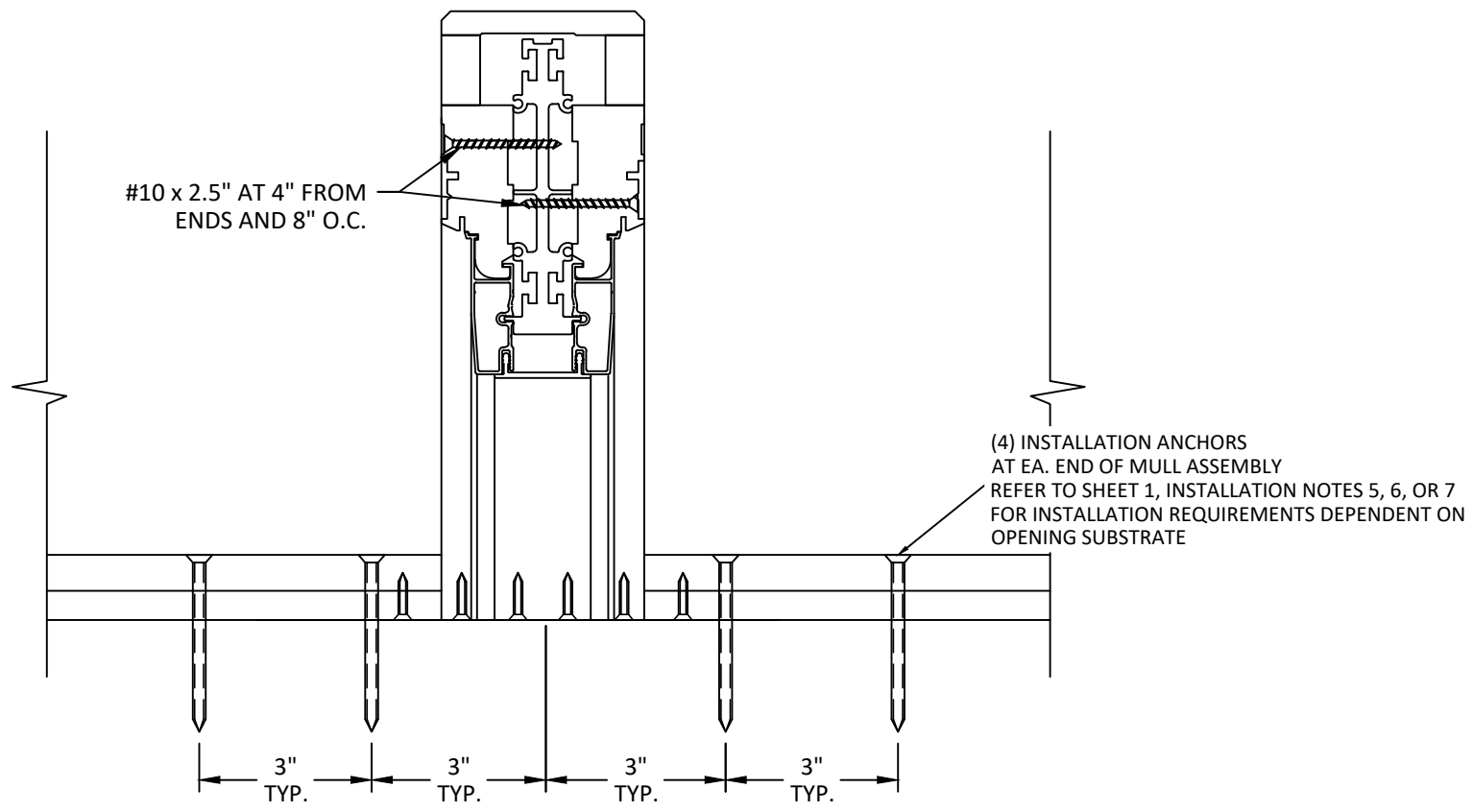


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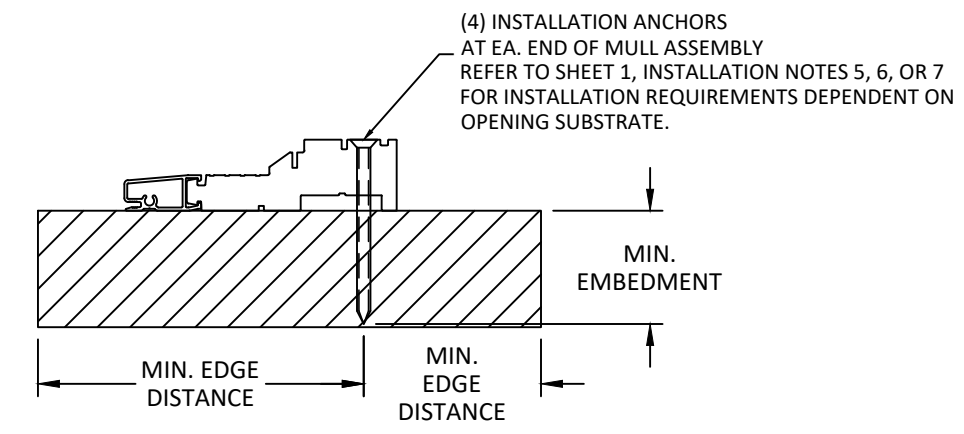
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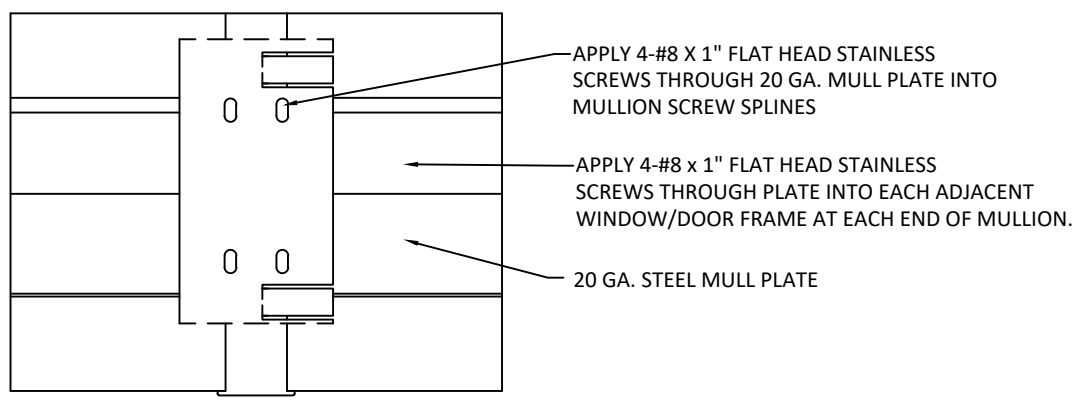
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**C**  
**4** ENLARGED ELEVATION  
THROUGH FRAME INSTALLATION  
ANCHOR PATTERN



**D**  
**4** VERTICAL SECTION  
THROUGH FRAME



**E**  
**4** VERTICAL SECTION  
THROUGH FRAME INSTALLATION  
AT EA. END OF MULL

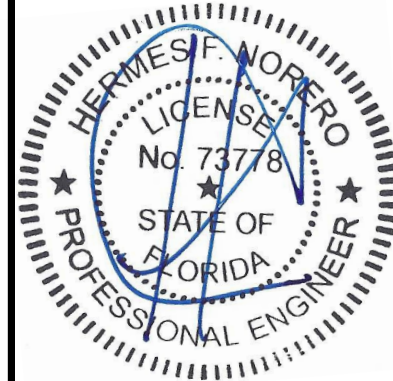
**INSTALLATION NOTE:**  
1. 20 GA. MULLION JOINING PLATE SHALL BE USED AT EA. END OF MULLION FOR THROUGH FRAME APPLICATIONS, SEE DETAIL E/4.

TITLE: CUSTOM COLLECTION  
1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)  
THROUGH FRAME  
INSTALLATION DETAILS

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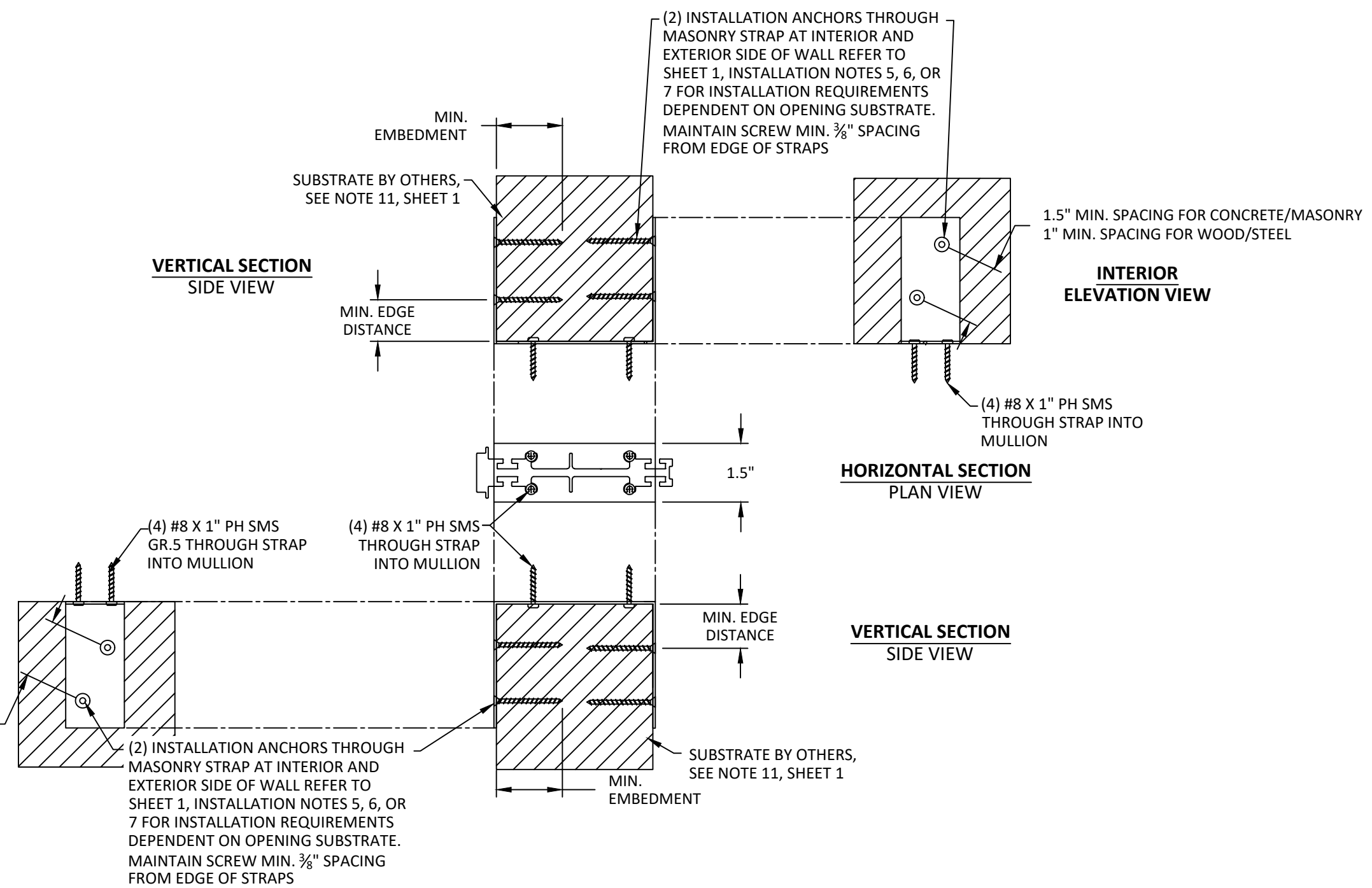
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**4**  
OF 13

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TITLE: CUSTOM COLLECTION  
1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)  
MASONRY STRAP INSTALLATION DETAILS

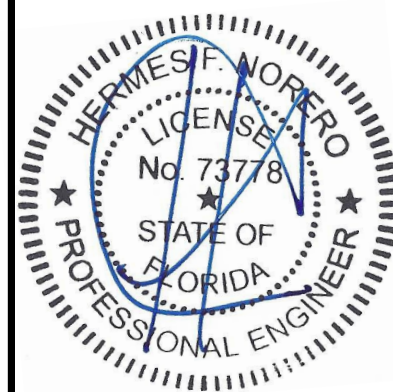
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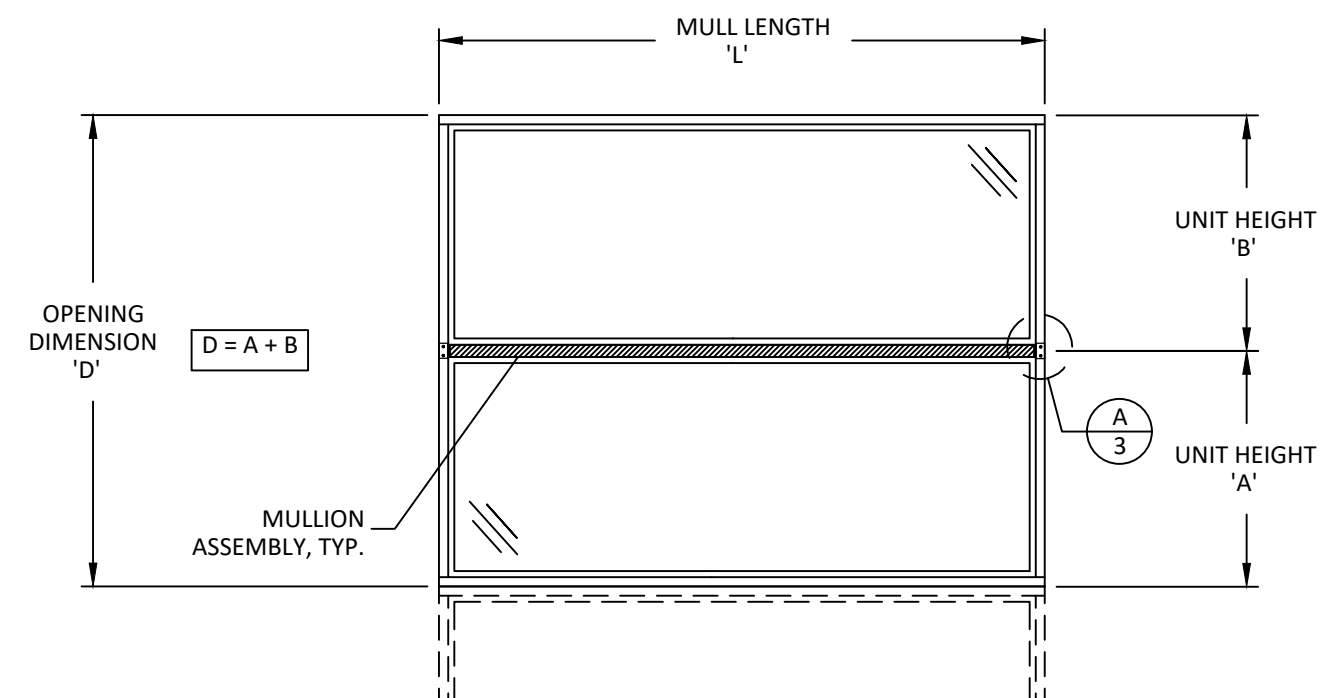
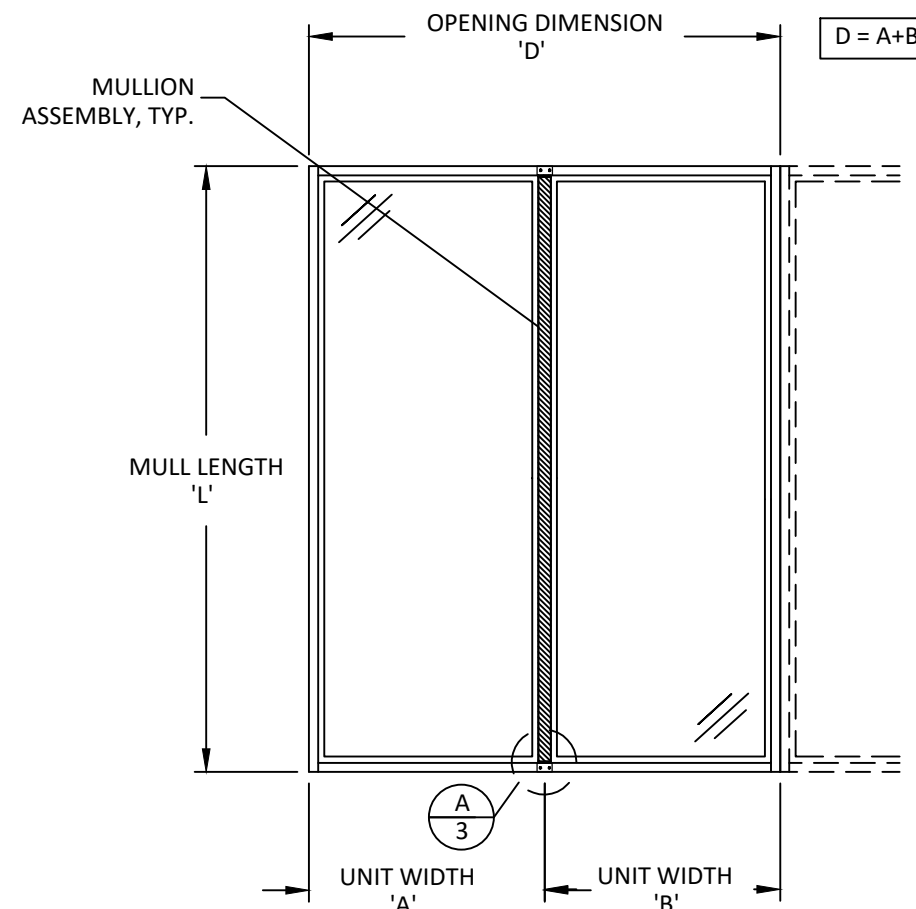
**F**  
**5** **MULLION INSTALLATION**  
20 GA. MASONRY STRAP MULLION INSTALLATION

DATE:	<b>08.31.17</b>	
DWG. BY:	CL	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	JW055	
SHEET:	5	

# 1" ALUMINUM MULLION - STANDARD CLIP INSTALLATION ONE-WAY CONFIGURATIONS (NO INTERMEDIATE MEMBERS)

Maximum Positive Design Pressure Capacity Chart (psf): 1" Mullion with Standard Clip Installation											
L - Mull Length (in)	D - Opening Dimension (in)										
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0
24.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
30.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
48.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
54.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
66.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
72.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
78.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
84.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.7
102.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	55.5	52.0
108.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	55.7	51.4	48.0
114.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.5	52.0	47.8	44.5
120.0	60.0	60.0	60.0	60.0	60.0	60.0	58.9	51.2	45.5	41.1	37.8

Maximum Negative Design Pressure Capacity Chart (psf): 1" Mullion with Standard Clip Installation											
L - Mull Length (in)	D - Opening Dimension (in)										
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
66.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	78.0
84.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	78.0	73.0	69.3
90.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.5	70.9	66.0	62.4
96.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	71.3	65.0	60.3	56.7
102.0	80.0	80.0	80.0	80.0	80.0	79.6	74.3	66.0	60.0	55.5	52.0
108.0	80.0	80.0	80.0	80.0	80.0	74.4	69.3	61.5	55.7	51.4	48.0
114.0	80.0	80.0	80.0	80.0	75.6	69.8	65.0	57.5	52.0	47.8	44.5
120.0	80.0	80.0	80.0	77.3	69.9	63.9	58.9	51.2	45.5	41.1	37.8



**NOTES:**

- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'STANDARD CLIP INSTALLATION' PROCEDURES, SEE DETAIL A/3.
- WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW OR DOOR UNIT UNDER SEPARATE APPROVAL.
- MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW OR DOOR UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.

TITLE: CUSTOM COLLECTION  
1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)

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
6TH FBC CODE CHANGE	CL	8.31.17
ANCHOR UPDATE	SM	4.17.19
7TH FBC CODE CHANGE	SR	3.30.20
8TH FBC CODE CHANGE	MG	2.06.23

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, 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

DATE:	08.31.17	
DWG. BY:	CL	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	JW055	

SHEET: 6

OF 13

z:\projects\jeld-wen\cc-22-1133.1 - fbc submittal - 2023 code change\115861.dwg\115861.2\jw055.dwg 2/20/2023 3:37 PM

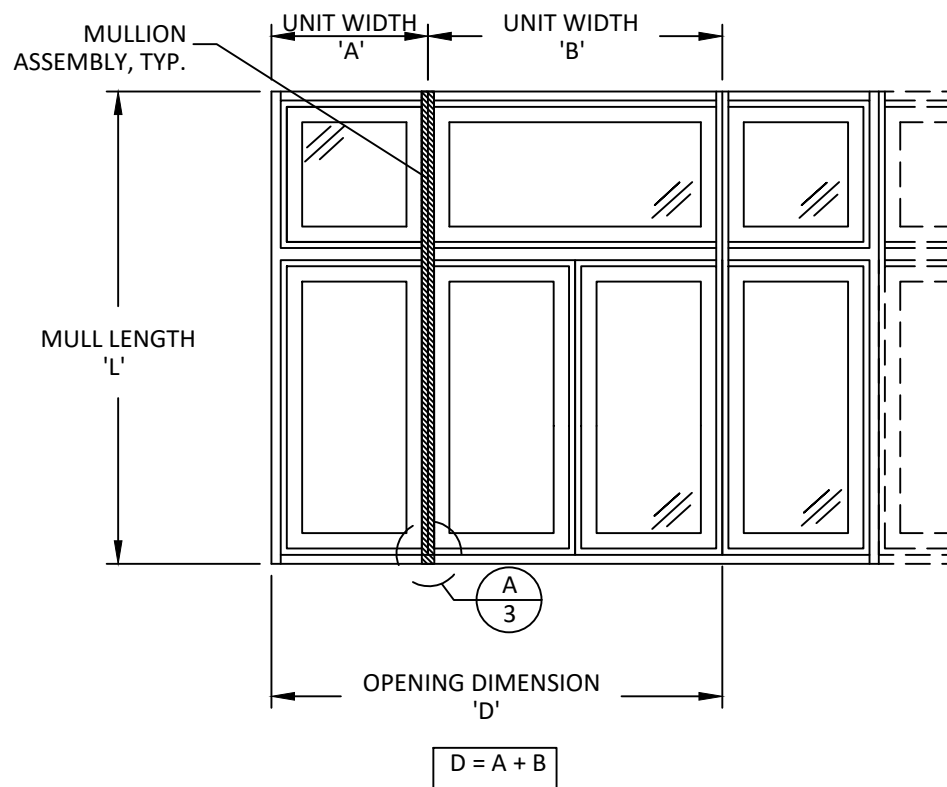
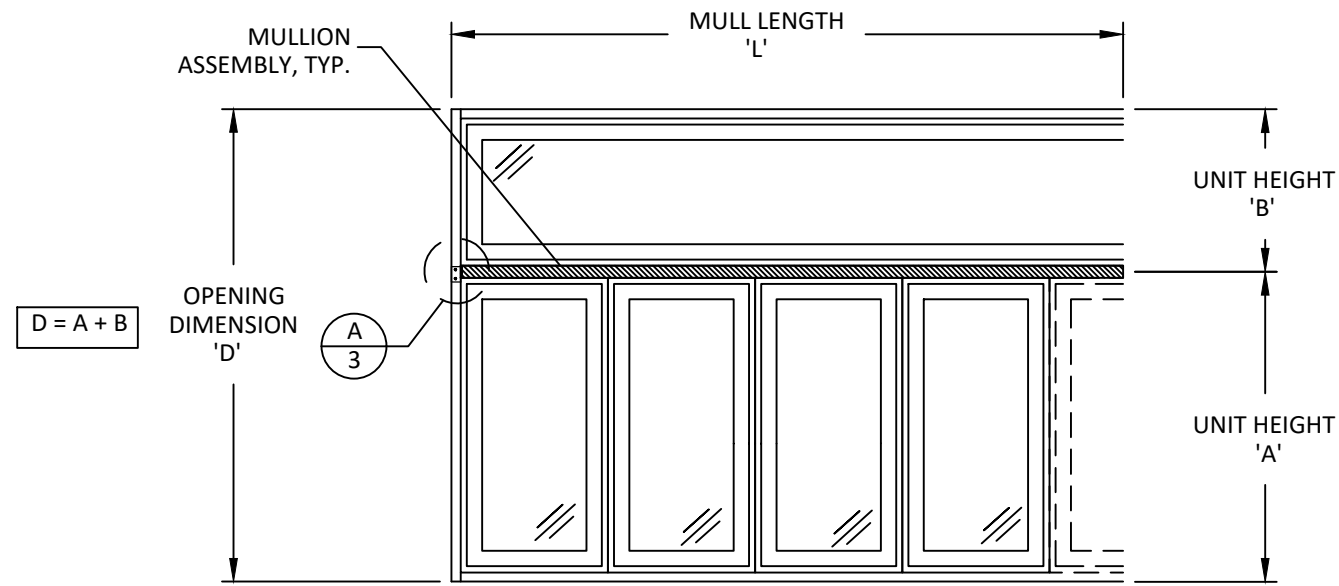
# 1" ALUMINUM MULLION - STANDARD CLIP INSTALLATION TWO-WAY CONFIGURATIONS (WITH INTERMEDIATE MEMBERS)



JELD-WEN, inc.  
3737 LAKEPORT BOULEVARD  
KLAMATH FALLS, OR 97601  
PH: (541) 882-3451 FX: (541) 850-2609

Maximum Positive Design Pressure Capacity per Calculations: 1" Mullion with Standard Installation												
L - Mull Length (in)	D - Opening Dimension (in)											
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0	132.0
24.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
30.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
48.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
54.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
66.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
72.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
78.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.8
84.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.0	52.8
90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.2	49.2
96.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.4	50.8	46.2
102.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	47.8	43.4
108.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	45.1	41.0
114.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.7	44.2	39.7	36.1
120.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	48.7	42.6	37.9	34.1	31.0
126.0	50.0	50.0	50.0	50.0	50.0	49.1	42.1	36.8	32.7	29.4	26.8	23.3
132.0	50.0	50.0	50.0	50.0	50.0	46.6	42.7	36.6	32.0	28.4	25.6	23.3
138.0	50.0	50.0	50.0	49.8	44.8	40.7	37.3	32.0	28.0	24.9	22.4	20.4
144.0	50.0	50.0	49.3	43.8	39.4	35.9	32.9	28.2	24.7	21.9	19.7	17.9
150.0	50.0	49.9	43.6	38.8	34.9	31.7	29.1	24.9	21.8	19.4	17.4	15.9
153.0	50.0	47.0	41.1	36.5	32.9	29.9	27.4	23.5	20.6	18.3	16.4	-

Maximum Negative Design Pressure Capacity per Calculations: 1" Mullion with Standard Installation												
L - Mull Length (in)	D - Opening Dimension (in)											
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0	132.0
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	73.9
66.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	73.9	67.1
72.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	75.2	67.7	61.6
78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	78.1	69.4	62.5	56.8
84.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	72.5	64.5	58.0	52.8
90.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.4	67.7	60.2	54.2	49.2
96.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	72.5	63.5	56.4	50.8	46.2
102.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	53.1	47.8	43.4
108.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	50.2	45.1	41.0
114.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	49.7	44.2	39.7	36.1
120.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	48.7	42.6	37.9	34.1	31.0
126.0	55.0	55.0	55.0	55.0	55.0	53.5	49.1	42.1	36.8	32.7	29.4	26.8
132.0	55.0	55.0	55.0	55.0	51.2	46.6	42.7	36.6	32.0	28.4	25.6	23.3
138.0	55.0	55.0	55.0	49.8	44.8	40.7	37.3	32.0	28.0	24.9	22.4	20.4
144.0	55.0	55.0	49.3	43.8	39.4	35.9	32.9	28.2	24.7	21.9	19.7	17.9
150.0	55.0	49.9	43.6	38.8	34.9	31.7	29.1	24.9	21.8	19.4	17.4	15.9
153.0	54.8	47.0	41.1	36.5	32.9	29.9	27.4	23.5	20.6	18.3	16.4	-



- NOTES:**
- 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
  - THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'STANDARD CLIP INSTALLATION' PROCEDURES, SEE DETAIL A/3.
  - WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
  - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW OR DOOR UNIT UNDER SEPARATE APPROVAL.
  - MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW OR DOOR UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.

TITLE: CUSTOM COLLECTION 1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)

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

2-WAY DESIGN PRESSURE TABLES - STD. INSTALLATION

REMARKS	BY	DATE
6TH FBC CODE CHANGE	CL	8.31.17
ANCHOR UPDATE	SM	4.17.19
7TH FBC CODE CHANGE	SR	3.30.20
8TH FBC CODE CHANGE	MG	2.06.23

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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

DATE:	08.31.17	
DWG. BY:	CL	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	JW055	

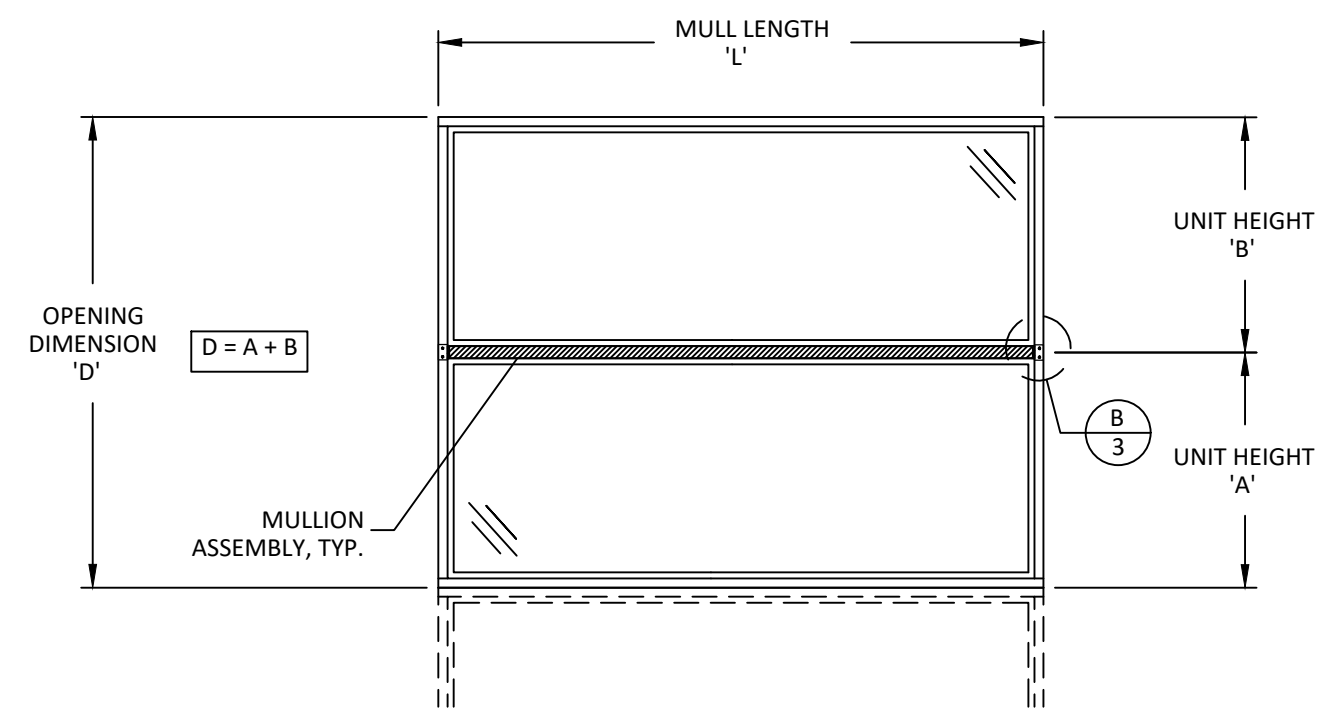
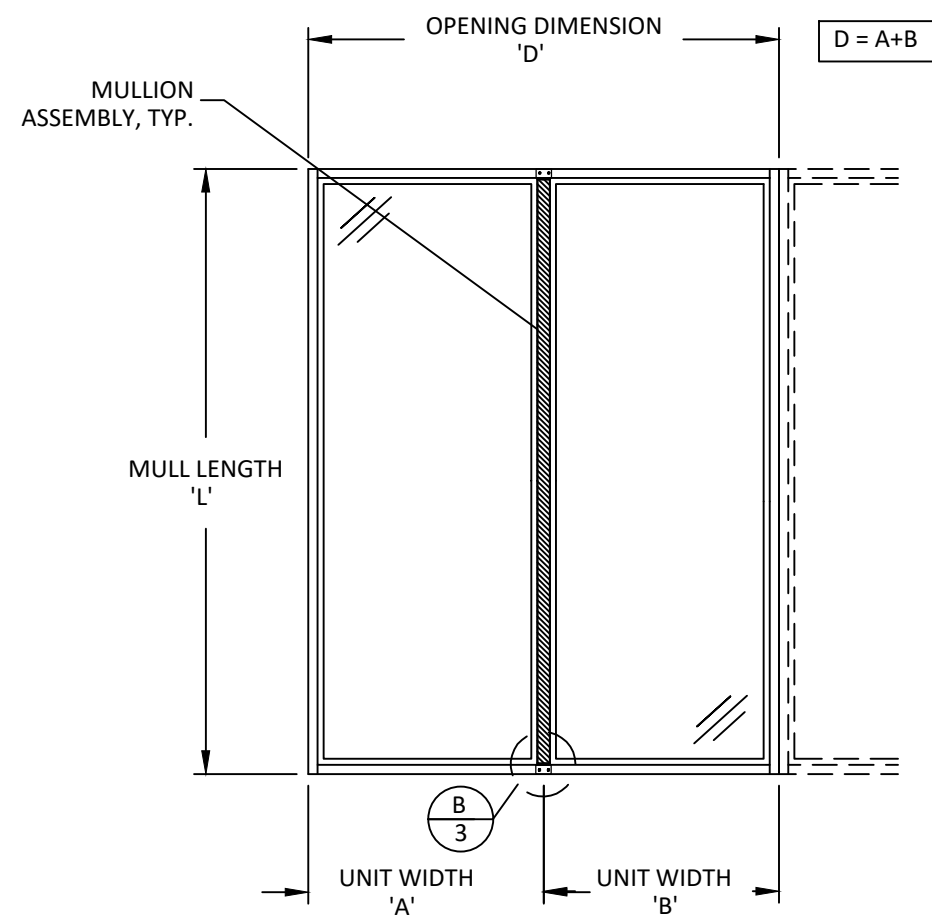
# 1" ALUMINUM MULLION - ALTERNATE CLIP INSTALLATION ONE-WAY CONFIGURATIONS (NO INTERMEDIATE MEMBERS)



JELD-WEN, inc.  
3737 LAKEPORT BOULEVARD  
KLAMATH FALLS, OR 97601  
PH: (541) 882-3451 FX: (541) 850-2609

Maximum Positive Design Pressure Capacity Chart (psf): 1" Mullion with Alternate Clip Installation											
L - Mull Length (in)	D - Opening Dimension (in)										
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0
24.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
30.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
48.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
54.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
66.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
72.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
78.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.4	50.2	47.3	45.2
84.0	60.0	60.0	60.0	60.0	60.0	58.4	54.8	49.2	45.2	42.3	40.2
90.0	60.0	60.0	60.0	60.0	57.9	53.7	50.2	44.9	41.1	38.3	36.2
96.0	60.0	60.0	60.0	58.4	53.6	49.6	46.4	41.3	37.7	34.9	32.9
102.0	60.0	60.0	60.0	54.5	49.9	46.1	43.0	38.3	34.8	32.1	30.1
108.0	60.0	60.0	56.5	51.0	46.7	43.1	40.2	35.6	32.3	29.8	27.8
114.0	60.0	59.9	53.2	48.0	43.8	40.5	37.7	33.3	30.1	27.7	25.8
120.0	60.0	56.6	50.2	45.3	41.3	38.1	35.5	31.3	28.3	25.9	24.1

Maximum Negative Design Pressure Capacity Chart (psf): 1" Mullion with Alternate Clip Installation											
L - Mull Length (in)	D - Opening Dimension (in)										
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	79.5	75.3	73.1	72.3
66.0	80.0	80.0	80.0	80.0	80.0	79.7	75.3	68.9	64.6	61.8	60.3
72.0	80.0	80.0	80.0	80.0	76.1	71.1	67.0	60.8	56.5	53.6	51.7
78.0	80.0	80.0	80.0	74.7	68.9	64.1	60.3	54.4	50.2	47.3	45.2
84.0	80.0	80.0	75.3	68.4	62.9	58.4	54.8	49.2	45.2	42.3	40.2
90.0	80.0	78.0	69.5	63.0	57.9	53.7	50.2	44.9	41.1	38.3	36.2
96.0	80.0	72.5	64.6	58.4	53.6	49.6	46.4	41.3	37.7	34.9	32.9
102.0	77.8	67.7	60.3	54.5	49.9	46.1	43.0	38.3	34.8	32.1	30.1
108.0	73.1	63.6	56.5	51.0	46.7	43.1	40.2	35.6	32.3	29.8	27.8
114.0	68.9	59.9	53.2	48.0	43.8	40.5	37.7	33.3	30.1	27.7	25.8
120.0	65.2	56.6	50.2	45.3	41.3	38.1	35.5	31.3	28.3	25.9	24.1



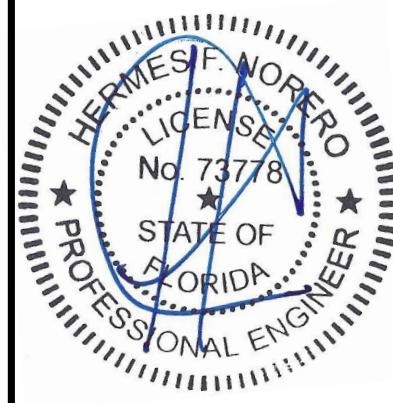
- NOTES:**
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
  - THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'ALTERNATE CLIP INSTALLATION' PROCEDURES, SEE DETAIL B/3.
  - WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
  - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW OR DOOR UNIT UNDER SEPARATE APPROVAL.
  - MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW OR DOOR UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.

TITLE: CUSTOM COLLECTION  
1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)  
1-WAY DESIGN PRESSURE TABLES - ALT. INSTALLATION

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
6TH FBC CODE CHANGE	CL	8.31.17
ANCHOR UPDATE	SM	4.17.19
7TH FBC CODE CHANGE	SR	3.30.20
8TH FBC CODE CHANGE	MG	2.06.23

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

DATE:	08.31.17	
DWG. BY:	CL	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	JW055	

SHEET: 8 OF 13



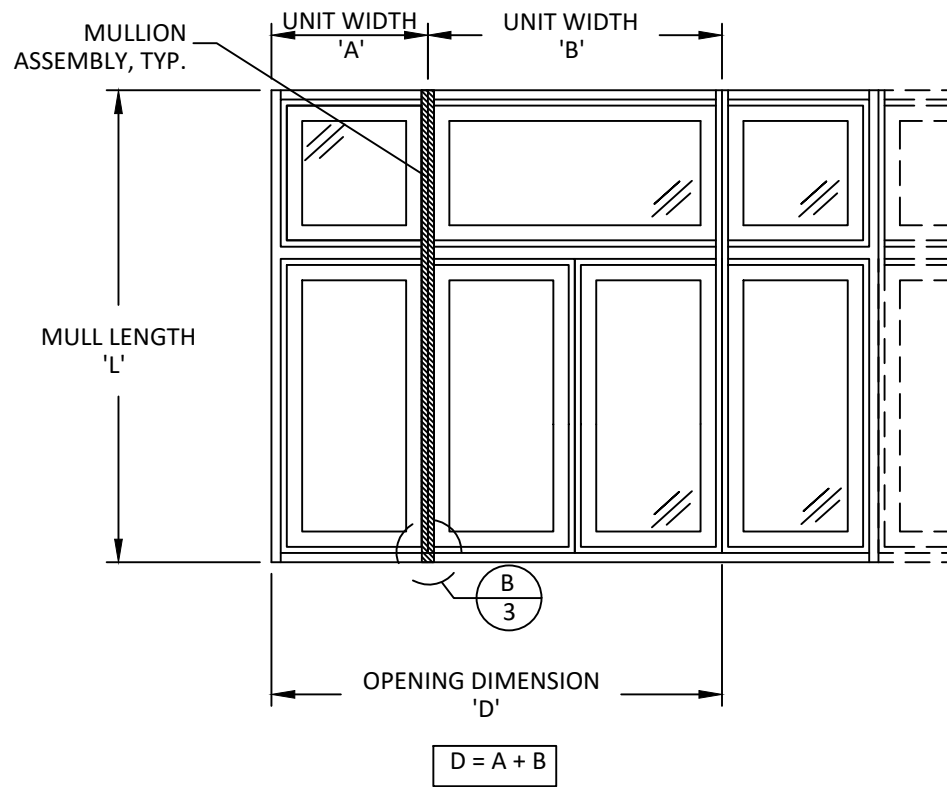
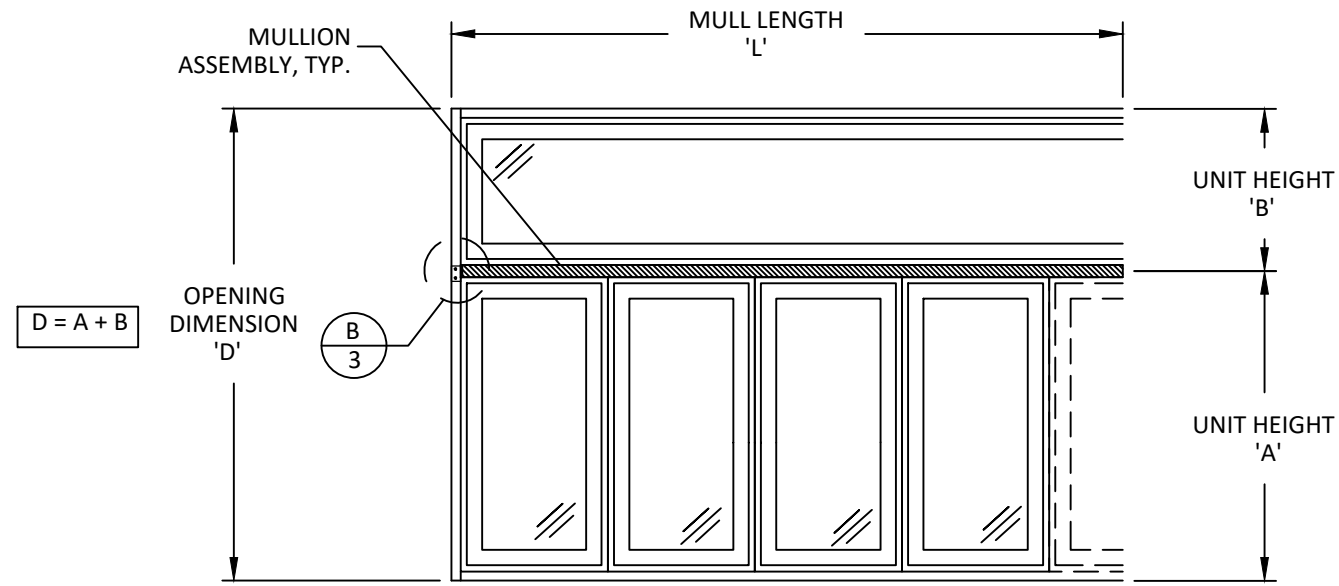
# 1" ALUMINUM MULLION - ALTERNATE CLIP INSTALLATION TWO-WAY CONFIGURATIONS (WITH INTERMEDIATE MEMBERS)



JELD-WEN, inc.  
3737 LAKEPORT BOULEVARD  
KLAMATH FALLS, OR 97601  
PH: (541) 882-3451 FX: (541) 850-2609

Maximum Positive Design Pressure Capacity per Calculations: 1" Mullion with Alternate Installation												
L - Mull Length (in)	D - Opening Dimension (in)											
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0	132.0
24.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
30.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.8
42.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.4	47.0
48.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.5	50.2	41.1
54.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.4	50.2	44.6	36.5
60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	51.7	45.2	40.2	36.2	32.9
66.0	60.0	60.0	60.0	60.0	60.0	60.0	59.8	54.8	47.0	41.1	36.5	29.9
72.0	60.0	60.0	60.0	60.0	60.0	54.8	50.2	43.0	37.7	33.5	30.1	27.4
78.0	60.0	60.0	60.0	60.0	55.6	50.6	46.4	39.7	34.8	30.9	27.8	25.3
84.0	60.0	60.0	60.0	57.4	51.7	47.0	43.0	36.9	32.3	28.7	25.8	23.5
90.0	60.0	60.0	60.0	53.6	48.2	43.8	40.2	34.4	30.1	26.8	24.1	21.9
96.0	60.0	60.0	56.5	50.2	45.2	41.1	37.7	32.3	28.3	25.1	22.6	20.5
102.0	50.0	50.0	50.0	47.3	42.5	38.7	35.5	30.4	26.6	23.6	21.3	19.3
108.0	50.0	50.0	50.0	44.6	40.2	36.5	33.5	28.7	25.1	22.3	20.1	18.3
114.0	50.0	50.0	47.6	42.3	38.1	34.6	31.7	27.2	23.8	21.1	19.0	17.3
120.0	50.0	50.0	45.2	40.2	36.2	32.9	30.1	25.8	22.6	20.1	18.1	16.4
126.0	50.0	49.2	43.0	38.3	34.4	31.3	28.7	24.6	21.5	19.1	17.2	15.7
132.0	50.0	47.0	41.1	36.5	32.9	29.9	27.4	23.5	20.5	18.3	16.4	-
138.0	50.0	44.9	39.3	34.9	31.4	28.6	26.2	22.5	19.7	17.5	15.7	-
144.0	50.0	43.0	37.7	33.5	30.1	27.4	25.1	21.5	18.8	16.7	15.1	-
150.0	48.2	41.3	36.2	32.1	28.9	26.3	24.1	20.7	18.1	16.1	-	-
153.0	47.3	40.5	35.5	31.5	28.4	25.8	23.6	20.3	17.7	15.8	-	-

Maximum Negative Design Pressure Capacity per Calculations: 1" Mullion with Alternate Installation												
L - Mull Length (in)	D - Opening Dimension (in)											
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0	132.0
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	65.7
36.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	75.3	67.0	54.8
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	73.8	64.6	57.4	51.7	47.0
48.0	80.0	80.0	80.0	80.0	80.0	80.0	75.3	64.6	56.5	50.2	45.2	41.1
54.0	80.0	80.0	80.0	80.0	80.0	73.1	67.0	57.4	50.2	44.6	40.2	36.5
60.0	80.0	80.0	80.0	80.0	72.3	65.7	60.3	51.7	45.2	40.2	36.2	32.9
66.0	80.0	80.0	80.0	73.1	65.7	59.8	54.8	47.0	41.1	36.5	32.9	29.9
72.0	80.0	80.0	75.3	67.0	60.3	54.8	50.2	43.0	37.7	33.5	30.1	27.4
78.0	80.0	79.5	69.5	61.8	55.6	50.6	46.4	39.7	34.8	30.9	27.8	25.3
84.0	80.0	73.8	64.6	57.4	51.7	47.0	43.0	36.9	32.3	28.7	25.8	23.5
90.0	80.0	68.9	60.3	53.6	48.2	43.8	40.2	34.4	30.1	26.8	24.1	21.9
96.0	75.3	64.6	56.5	50.2	45.2	41.1	37.7	32.3	28.3	25.1	22.6	20.5
102.0	50.0	50.0	50.0	47.3	42.5	38.7	35.5	30.4	26.6	23.6	21.3	19.3
108.0	50.0	50.0	50.0	44.6	40.2	36.5	33.5	28.7	25.1	22.3	20.1	18.3
114.0	50.0	50.0	47.6	42.3	38.1	34.6	31.7	27.2	23.8	21.1	19.0	17.3
120.0	50.0	50.0	45.2	40.2	36.2	32.9	30.1	25.8	22.6	20.1	18.1	16.4
126.0	50.0	49.2	43.0	38.3	34.4	31.3	28.7	24.6	21.5	19.1	17.2	15.7
132.0	50.0	47.0	41.1	36.5	32.9	29.9	27.4	23.5	20.5	18.3	16.4	-
138.0	50.0	44.9	39.3	34.9	31.4	28.6	26.2	22.5	19.7	17.5	15.7	-
144.0	50.0	43.0	37.7	33.5	30.1	27.4	25.1	21.5	18.8	16.7	15.1	-
150.0	48.2	41.3	36.2	32.1	28.9	26.3	24.1	20.7	18.1	16.1	-	-
153.0	47.3	40.5	35.5	31.5	28.4	25.8	23.6	20.3	17.7	15.8	-	-



- NOTES:**
- 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
  - THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'ALTERNATE CLIP INSTALLATION' PROCEDURES, SEE DETAIL B/3.
  - WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
  - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW OR DOOR UNIT UNDER SEPARATE APPROVAL.
  - MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW OR DOOR UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.

TITLE: CUSTOM COLLECTION  
1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)  
2-WAY DESIGN PRESSURE TABLES - ALT. INSTALLATION

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

REMARKS	BY	DATE
6TH FBC CODE CHANGE	CL	8.31.17
ANCHOR UPDATE	SM	4.17.19
7TH FBC CODE CHANGE	SR	3.30.20
8TH FBC CODE CHANGE	MG	2.06.23

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, 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

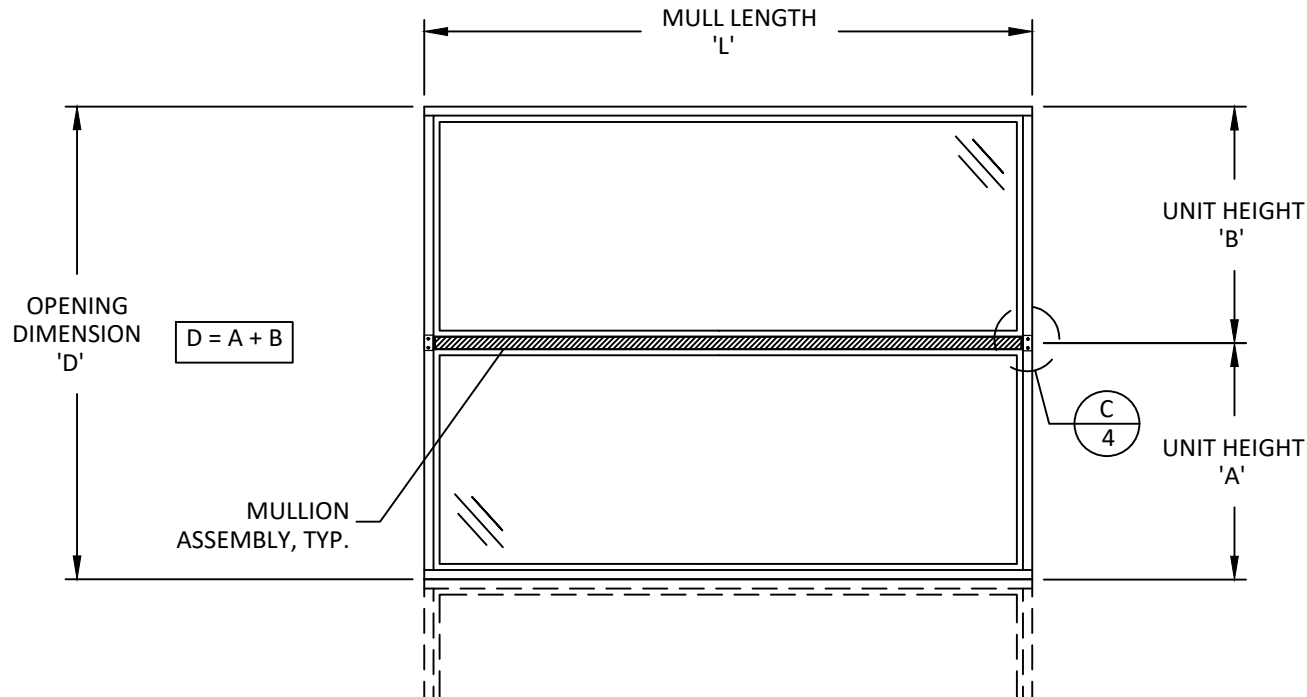
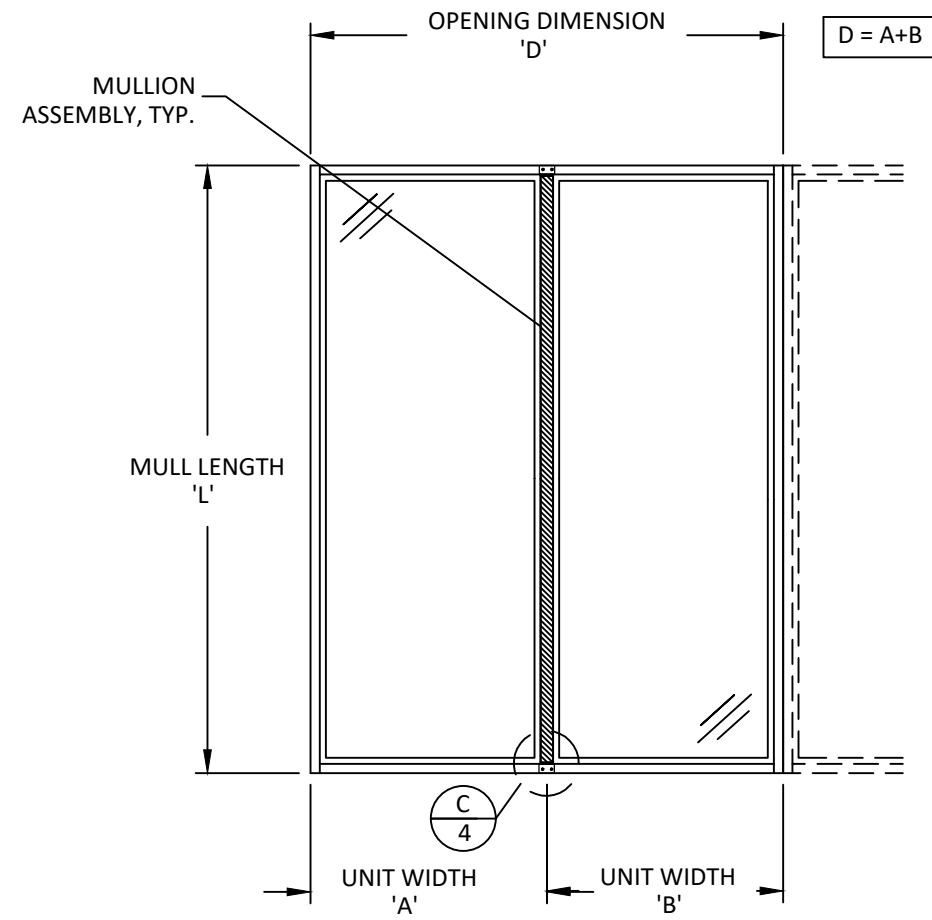
DATE:	08.31.17	
DWG. BY:	CL	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	JW055	
SHEET:	9	

# 1" ALUMINUM MULLION - THROUGH FRAME INSTALLATION ONE-WAY CONFIGURATIONS (NO INTERMEDIATE MEMBERS)

Maximum Positive Design Pressure Capacity Chart (psf): 1" Mullion with Adjacent Through Frame Installation											
L - Mull Length (in)	D - Opening Dimension (in)										
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0
24.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
30.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
48.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
54.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
66.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
72.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.6	56.5
78.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	59.5	55.0	49.5
84.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	53.8	49.5	46.3	44.0
90.0	60.0	60.0	60.0	60.0	60.0	58.7	55.0	49.2	45.0	41.9	39.6
96.0	60.0	60.0	60.0	60.0	58.6	54.3	50.7	45.2	41.2	38.2	36.0
102.0	60.0	60.0	60.0	59.6	54.6	50.5	47.1	41.9	38.1	35.2	33.0
108.0	60.0	60.0	60.0	55.8	51.1	47.2	44.0	39.0	35.3	32.6	30.4
114.0	60.0	60.0	58.2	52.5	48.0	44.3	41.2	36.5	33.0	30.3	28.3
120.0	60.0	60.0	55.0	49.5	45.2	41.7	38.8	34.3	30.9	28.4	26.4

Maximum Negative Design Pressure Capacity Chart (psf): 1" Mullion with Adjacent Through Frame Installation											
L - Mull Length (in)	D - Opening Dimension (in)										
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	79.9	79.1
66.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	75.4	70.7	67.6	66.0
72.0	80.0	80.0	80.0	80.0	80.0	77.8	73.3	66.5	61.8	58.6	56.5
78.0	80.0	80.0	80.0	80.0	75.4	70.2	66.0	59.5	55.0	51.7	49.5
84.0	80.0	80.0	80.0	74.8	68.8	64.0	60.0	53.8	49.5	46.3	44.0
90.0	80.0	80.0	76.1	69.0	63.3	58.7	55.0	49.2	45.0	41.9	39.6
96.0	80.0	79.3	70.7	64.0	58.6	54.3	50.7	45.2	41.2	38.2	36.0
102.0	80.0	74.1	66.0	59.6	54.6	50.5	47.1	41.9	38.1	35.2	33.0
108.0	79.9	69.6	61.8	55.8	51.1	47.2	44.0	39.0	35.3	32.6	30.4
114.0	75.4	65.5	58.2	52.5	48.0	44.3	41.2	36.5	33.0	30.3	28.3
120.0	71.3	62.0	55.0	49.5	45.2	41.7	38.8	34.3	30.9	28.4	26.4

- NOTES:**
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
  - THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'THROUGH FRAME INSTALLATION' PROCEDURES, SEE DETAIL C/4.
  - WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
  - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW OR DOOR UNIT UNDER SEPARATE APPROVAL.
  - MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW OR DOOR UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.



TITLE: CUSTOM COLLECTION  
1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)  
1-WAY DESIGN PRESSURE TABLES - THROUGH FRAME INSTALLATION

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

REMARKS	BY	DATE
6TH FBC CODE CHANGE	CL	8.31.17
ANCHOR UPDATE	SM	4.17.19
7TH FBC CODE CHANGE	SR	3.30.20
8TH FBC CODE CHANGE	MG	2.06.23

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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

DATE:	08.31.17	
DWG. BY:	CL	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	JW055	

SHEET: 10 OF 13

# 1" ALUMINUM MULLION - THROUGH FRAME INSTALLATION TWO-WAY CONFIGURATIONS (WITH INTERMEDIATE MEMBERS)



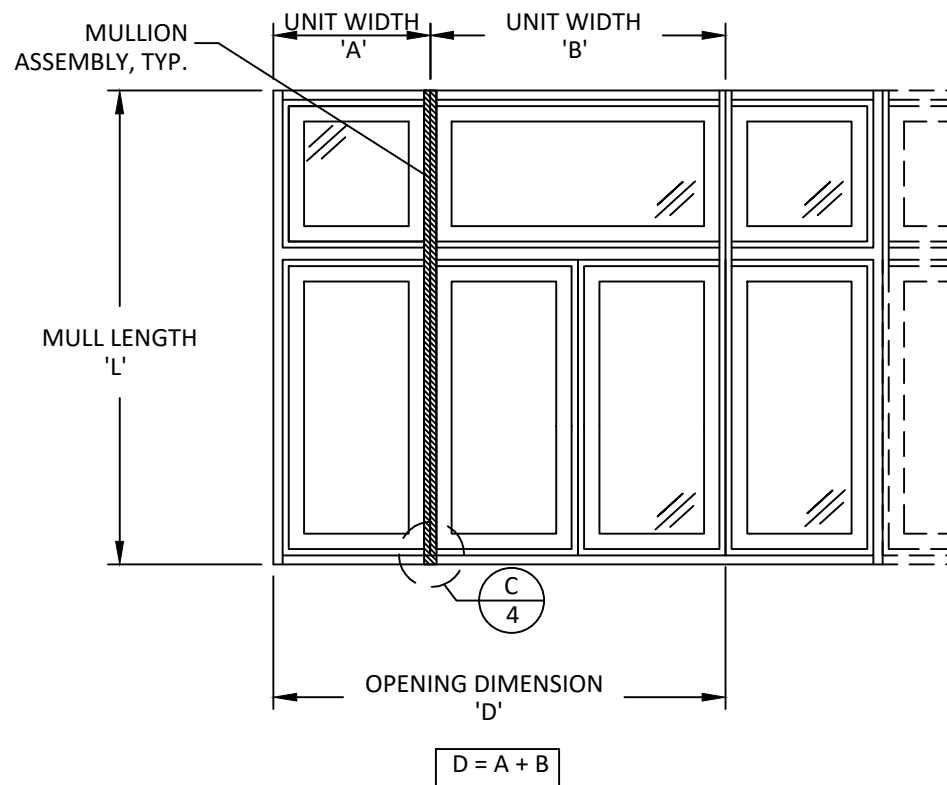
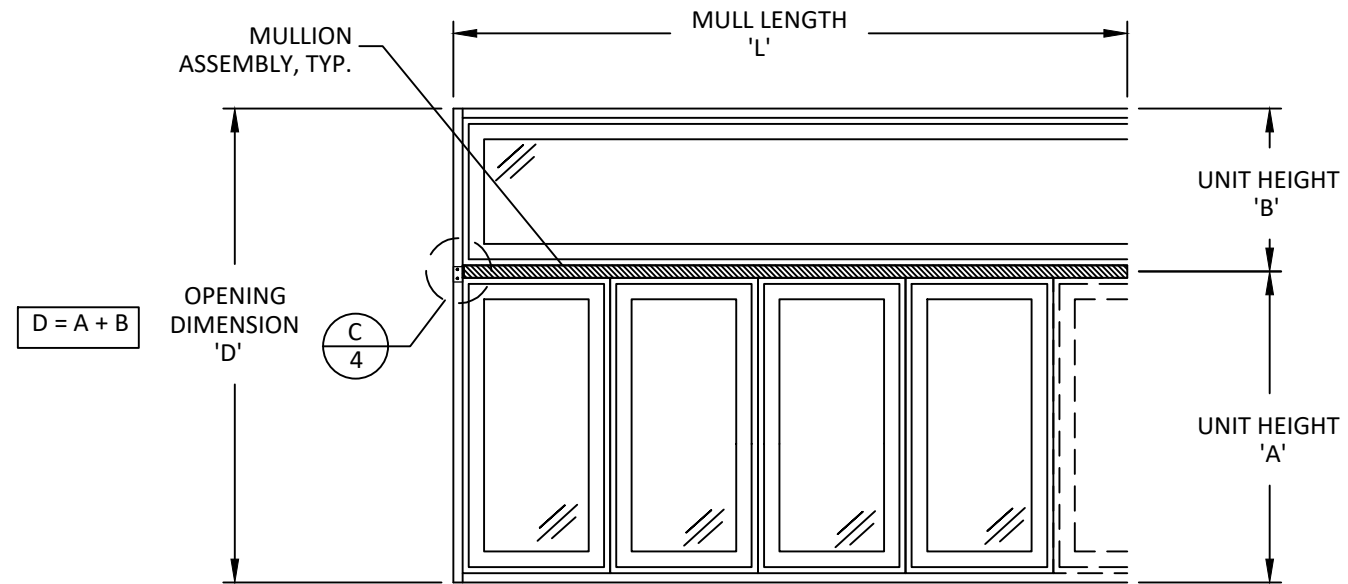
JELD-WEN, inc.  
3737 LAKEPORT BOULEVARD  
KLAMATH FALLS, OR 97601  
PH: (541) 882-3451 FX: (541) 850-2609

Maximum Positive Design Pressure Capacity: 1" Mullion with Adjacent Through Frame Installation												
L - Mull Length (in)	D - Opening Dimension (in)											
24.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0	132.0
30.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.1
48.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.0
54.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	53.4	48.0	43.7
60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.0	48.0	43.2
66.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.1	49.1	43.7	39.3
72.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	51.5	45.0	40.0	36.0
78.0	60.0	60.0	60.0	60.0	60.0	60.0	55.4	47.5	41.6	37.0	33.3	30.2
84.0	60.0	60.0	60.0	60.0	60.0	56.1	51.5	44.1	38.6	34.3	30.9	28.1
90.0	60.0	60.0	60.0	60.0	57.6	52.4	48.0	41.2	36.0	32.0	28.8	26.2
96.0	60.0	60.0	60.0	60.0	54.0	49.1	45.0	38.6	33.8	30.0	27.0	24.6
102.0	50.0	50.0	50.0	50.0	50.0	46.2	42.4	36.3	31.8	28.3	25.4	23.1
108.0	50.0	50.0	50.0	50.0	48.0	43.7	40.0	34.3	30.0	26.7	24.0	21.8
114.0	50.0	50.0	50.0	50.0	45.5	41.4	37.9	32.5	28.4	25.3	22.8	20.7
120.0	50.0	50.0	50.0	48.0	43.2	39.3	36.0	30.9	27.0	24.0	21.6	19.7
126.0	50.0	50.0	50.0	45.7	41.2	37.4	34.3	29.4	25.7	22.9	20.6	18.7
132.0	50.0	50.0	49.1	43.7	39.3	35.7	32.8	28.1	24.6	21.8	19.7	17.9
138.0	50.0	50.0	47.0	41.8	37.6	34.2	31.3	26.9	23.5	20.9	18.8	17.1
144.0	50.0	50.0	45.0	40.0	36.0	32.8	30.0	25.7	22.5	20.0	18.0	16.4
150.0	50.0	49.4	43.2	38.4	34.6	31.4	28.8	24.7	21.6	19.2	17.3	15.7
153.0	50.0	47.0	41.1	36.5	32.9	29.9	27.4	23.5	20.6	18.3	16.4	-

Maximum Negative Design Pressure Capacity: 1" Mullion with Adjacent Through Frame Installation												
L - Mull Length (in)	D - Opening Dimension (in)											
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	78.6
36.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	72.1
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.2	68.6	61.8	56.1
48.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.2	67.6	60.0	54.0	49.1
54.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	68.6	60.0	53.4	48.0	43.7
60.0	80.0	80.0	80.0	80.0	80.0	80.0	78.6	72.1	61.8	54.0	48.0	43.2
66.0	80.0	80.0	80.0	80.0	78.6	71.5	65.5	56.1	49.1	43.7	39.3	35.7
72.0	80.0	80.0	80.0	80.0	72.1	65.5	60.0	51.5	45.0	40.0	36.0	32.8
78.0	80.0	80.0	80.0	73.9	66.5	60.5	55.4	47.5	41.6	37.0	33.3	30.2
84.0	80.0	80.0	77.2	68.6	61.8	56.1	51.5	44.1	38.6	34.3	30.9	28.1
90.0	80.0	80.0	72.1	64.0	57.6	52.4	48.0	41.2	36.0	32.0	28.8	26.2
96.0	80.0	77.2	67.6	60.0	54.0	49.1	45.0	38.6	33.8	30.0	27.0	24.6
102.0	55.0	55.0	55.0	55.0	50.9	46.2	42.4	36.3	31.8	28.3	25.4	23.1
108.0	55.0	55.0	55.0	53.4	48.0	43.7	40.0	34.3	30.0	26.7	24.0	21.8
114.0	55.0	55.0	55.0	50.6	45.5	41.4	37.9	32.5	28.4	25.3	22.8	20.7
120.0	55.0	55.0	54.0	48.0	43.2	39.3	36.0	30.9	27.0	24.0	21.6	19.7
126.0	55.0	55.0	51.5	45.7	41.2	37.4	34.3	29.4	25.7	22.9	20.6	18.7
132.0	55.0	55.0	49.1	43.7	39.3	35.7	32.8	28.1	24.6	21.8	19.7	17.9
138.0	55.0	53.7	47.0	41.8	37.6	34.2	31.3	26.9	23.5	20.9	18.8	17.1
144.0	55.0	51.5	45.0	40.0	36.0	32.8	30.0	25.7	22.5	20.0	18.0	16.4
150.0	55.0	49.4	43.2	38.4	34.6	31.4	28.8	24.7	21.6	19.2	17.3	15.7
153.0	54.8	47.0	41.1	36.5	32.9	29.9	27.4	23.5	20.6	18.3	16.4	-

**NOTES:**

- 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'THROUGH FRAME INSTALLATION' PROCEDURES, SEE DETAIL C/4.
- WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW OR DOOR UNIT UNDER SEPARATE APPROVAL.
- MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW OR DOOR UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.



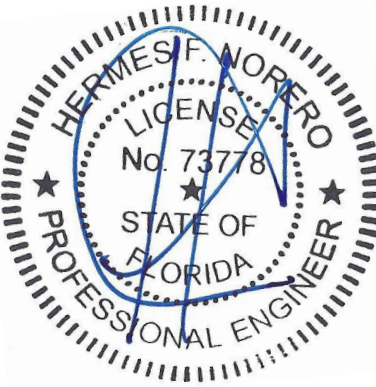
TITLE: CUSTOM COLLECTION  
1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)

PREPARED BY: 2-WAY DESIGN PRESSURE TABLES - THROUGH FRAME INSTALLATION

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
6TH FBC CODE CHANGE	CL	8.31.17
ANCHOR UPDATE	SM	4.17.19
7TH FBC CODE CHANGE	SR	3.30.20
8TH FBC CODE CHANGE	MG	2.06.23

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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

DATE:	08.31.17	
DWG. BY:	CL	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	JW055	
SHEET:	11	

# 1" ALUMINUM MULLION - MASONRY STRAP INSTALLATION ONE-WAY CONFIGURATIONS (NO INTERMEDIATE MEMBERS)



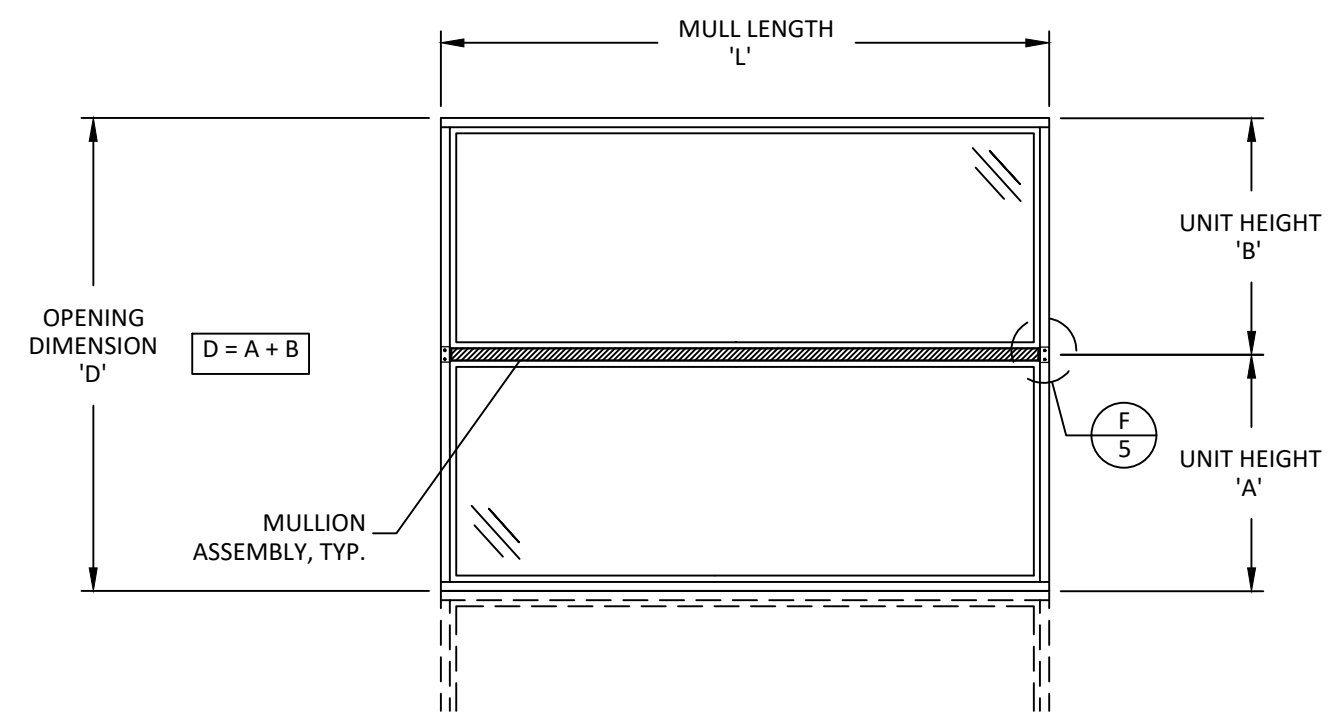
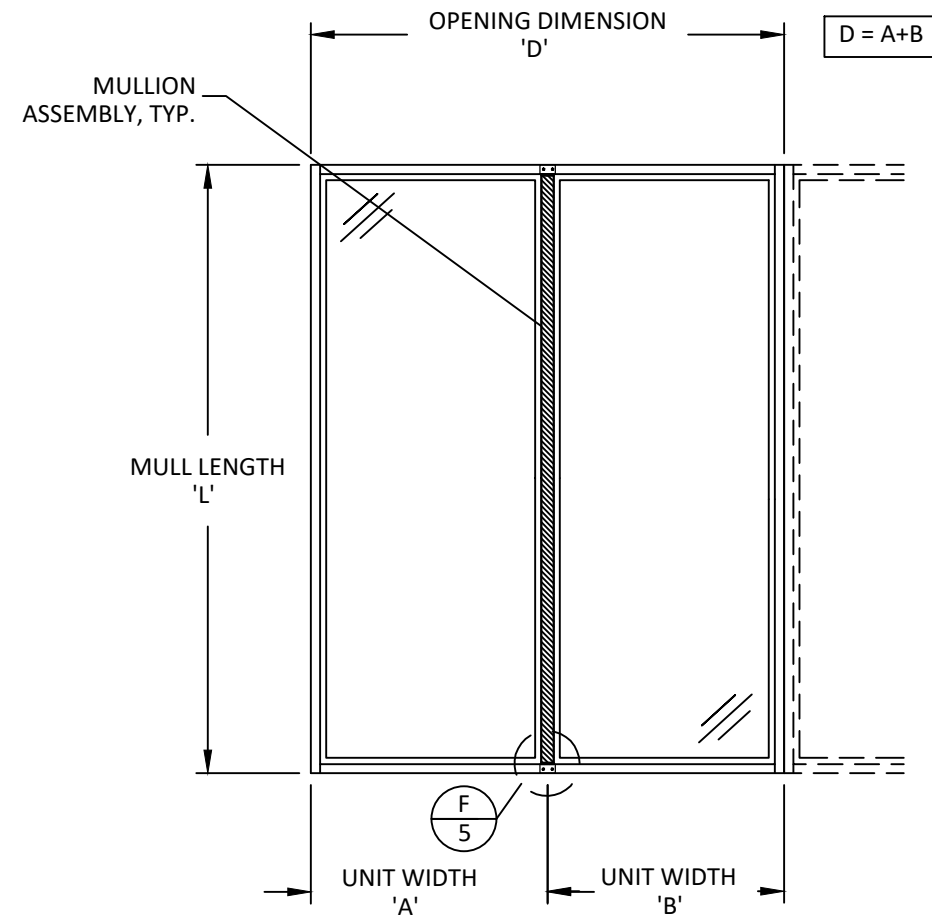
JELD-WEN, inc.  
3737 LAKEPORT BOULEVARD  
KLAMATH FALLS, OR 97601  
PH: (541) 882-3451 FX: (541) 850-2609

TITLE: CUSTOM COLLECTION  
1" ALUMINUM CLIPPED MULLION  
(HVHZ) (IMPACT)  
1-WAY DESIGN PRESSURE TABLES -  
MASONRY STRAP INSTALLATION

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

Maximum Positive Design Pressure Capacity Chart (psf): 1" Mullion with Masonry Strap Installation											
L - Mull Length (in)	D - Opening Dimension (in)										
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0
24.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
30.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
48.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
54.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.5	55.3	54.7
60.0	60.0	60.0	60.0	60.0	59.0	55.5	52.7	48.6	46.1	44.7	44.3
66.0	60.0	60.0	60.0	56.2	52.1	48.8	46.1	42.2	39.5	37.8	36.9
72.0	60.0	60.0	55.3	50.4	46.6	43.5	41.0	37.2	34.6	32.8	31.6
78.0	60.0	56.2	50.3	45.8	42.2	39.3	36.9	33.3	30.7	28.9	27.7
84.0	59.0	51.6	46.1	41.9	38.5	35.8	33.5	30.1	27.7	25.9	24.6
90.0	54.7	47.7	42.6	38.6	35.4	32.9	30.7	27.5	25.2	23.4	22.1
96.0	50.9	44.4	39.5	35.8	32.8	30.4	28.4	25.3	23.1	21.4	20.1
102.0	47.6	41.5	36.9	33.3	30.5	28.2	26.3	23.4	21.3	19.7	18.4
108.0	44.7	38.9	34.6	31.2	28.6	26.4	24.6	21.8	19.8	18.2	17.0
114.0	42.2	36.7	32.5	29.4	26.8	24.8	23.1	20.4	18.4	17.0	15.8
120.0	39.9	34.7	30.7	27.7	25.3	23.3	21.7	19.2	17.3	15.9	-

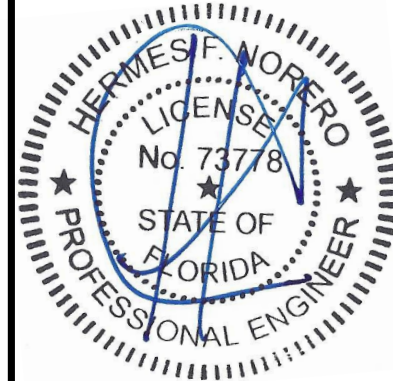
Maximum Negative Design Pressure Capacity Chart (psf): 1" Mullion with Masonry Strap Installation											
L - Mull Length (in)	D - Opening Dimension (in)										
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48.0	80.0	80.0	80.0	80.0	80.0	76.7	73.8	70.3	69.2	69.2	69.2
54.0	80.0	80.0	79.0	72.9	68.1	64.4	61.5	57.5	55.3	54.7	54.7
60.0	80.0	76.7	69.2	63.5	59.0	55.5	52.7	48.6	46.1	44.7	44.3
66.0	77.7	68.4	61.5	56.2	52.1	48.8	46.1	42.2	39.5	37.8	36.9
72.0	70.3	61.7	55.3	50.4	46.6	43.5	41.0	37.2	34.6	32.8	31.6
78.0	64.2	56.2	50.3	45.8	42.2	39.3	36.9	33.3	30.7	28.9	27.7
84.0	59.0	51.6	46.1	41.9	38.5	35.8	33.5	30.1	27.7	25.9	24.6
90.0	54.7	47.7	42.6	38.6	35.4	32.9	30.7	27.5	25.2	23.4	22.1
96.0	50.9	44.4	39.5	35.8	32.8	30.4	28.4	25.3	23.1	21.4	20.1
102.0	47.6	41.5	36.9	33.3	30.5	28.2	26.3	23.4	21.3	19.7	18.4
108.0	44.7	38.9	34.6	31.2	28.6	26.4	24.6	21.8	19.8	18.2	17.0
114.0	42.2	36.7	32.5	29.4	26.8	24.8	23.1	20.4	18.4	17.0	15.8
120.0	39.9	34.7	30.7	27.7	25.3	23.3	21.7	19.2	17.3	15.9	-



- NOTES:
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
  - THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'MASONRY STRAP INSTALLATION' PROCEDURES, SEE DETAIL F/5.
  - WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
  - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW OR DOOR UNIT UNDER SEPARATE APPROVAL.
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REMARKS	BY	DATE
6TH FBC CODE CHANGE	CL	8.31.17
ANCHOR UPDATE	SM	4.17.19
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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

DATE:	08.31.17	
DWG. BY:	CL	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	JW055	
SHEET:	12	

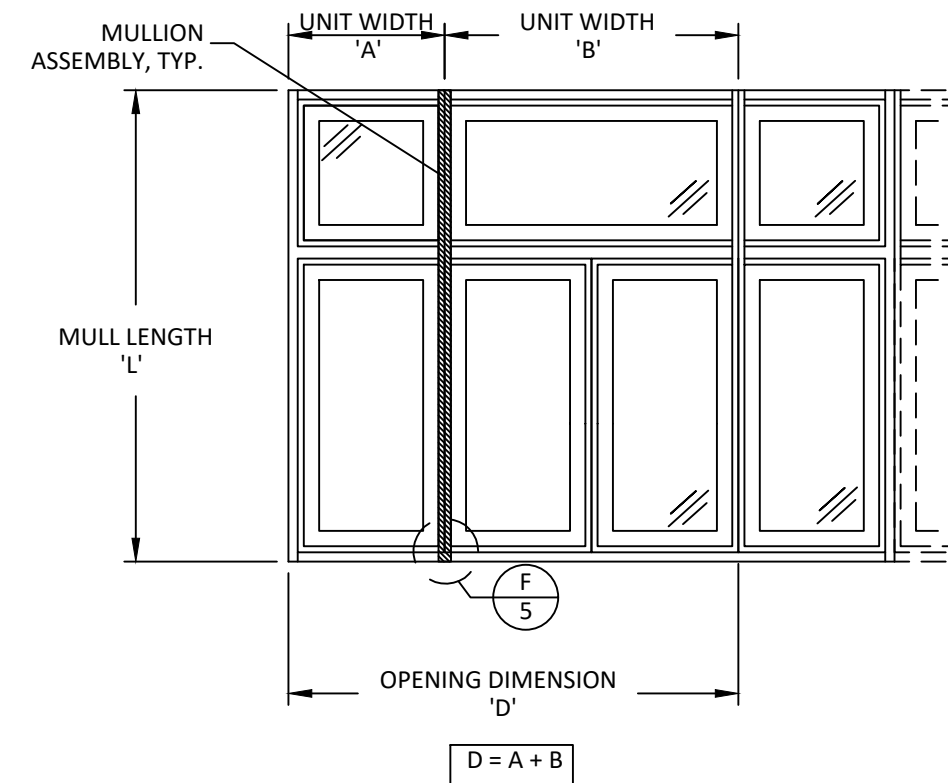
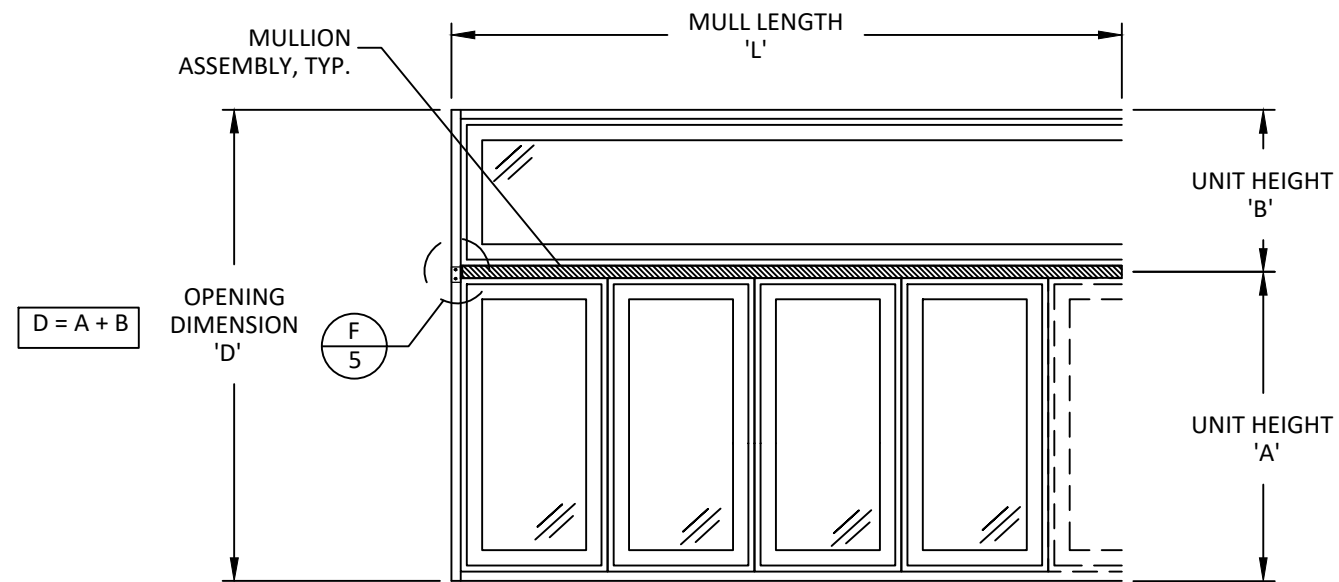
# 1" ALUMINUM MULLION - MASONRY STRAP INSTALLATION TWO-WAY CONFIGURATIONS (WITH INTERMEDIATE MEMBERS)



JELD-WEN, inc.  
3737 LAKEPORT BOULEVARD  
KLAMATH FALLS, OR 97601  
PH: (541) 882-3451 FX: (541) 850-2609

Maximum Positive Design Pressure Capacity: 1" Mullion with Masonry Strap Installation												
L - Mull Length (in)	D - Opening Dimension (in)											
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0	132.0
24.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.0	49.1
30.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.0	48.0	39.3
36.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	51.5	45.0	40.0	36.0	32.8
42.0	60.0	60.0	60.0	60.0	60.0	56.1	51.5	44.1	38.6	34.3	30.9	28.1
48.0	60.0	60.0	60.0	60.0	54.0	49.1	45.0	38.6	33.8	30.0	27.0	24.6
54.0	60.0	60.0	60.0	53.4	48.0	43.7	40.0	34.3	30.0	26.7	24.0	21.8
60.0	60.0	60.0	54.0	48.0	43.2	39.3	36.0	30.9	27.0	24.0	21.6	19.7
66.0	60.0	56.1	49.1	43.7	39.3	35.7	32.8	28.1	24.6	21.8	19.7	17.9
72.0	60.0	51.5	45.0	40.0	36.0	32.8	30.0	25.7	22.5	20.0	18.0	16.4
78.0	55.4	47.5	41.6	37.0	33.3	30.2	27.7	23.8	20.8	18.5	16.6	15.1
84.0	51.5	44.1	38.6	34.3	30.9	28.1	25.7	22.1	19.3	17.2	15.4	-
90.0	48.0	41.2	36.0	32.0	28.8	26.2	24.0	20.6	18.0	16.0	-	-
96.0	45.0	38.6	33.8	30.0	27.0	24.6	22.5	19.3	16.9	15.0	-	-
102.0	42.4	36.3	31.8	28.3	25.4	23.1	21.2	18.2	15.9	-	-	-
108.0	40.0	34.3	30.0	26.7	24.0	21.8	20.0	17.2	15.0	-	-	-
114.0	37.9	32.5	28.4	25.3	22.8	20.7	19.0	16.3	-	-	-	-
120.0	36.0	30.9	27.0	24.0	21.6	19.7	18.0	15.4	-	-	-	-
126.0	34.3	29.4	25.7	22.9	20.6	18.7	17.2	-	-	-	-	-
132.0	32.8	28.1	24.6	21.8	19.7	17.9	16.4	-	-	-	-	-
138.0	31.3	26.9	23.5	20.9	18.8	17.1	15.7	-	-	-	-	-
144.0	30.0	25.7	22.5	20.0	18.0	16.4	15.0	-	-	-	-	-
150.0	28.8	24.7	21.6	19.2	17.3	15.7	-	-	-	-	-	-
153.0	28.3	24.2	21.2	18.8	17.0	15.4	-	-	-	-	-	-

Maximum Negative Design Pressure Capacity: 1" Mullion with Masonry Strap Installation												
L - Mull Length (in)	D - Opening Dimension (in)											
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	84.0	96.0	108.0	120.0	132.0
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.2	67.6	60.0	54.0	49.1
30.0	80.0	80.0	80.0	80.0	80.0	78.6	72.1	61.8	54.0	48.0	43.2	39.3
36.0	80.0	80.0	80.0	80.0	72.1	65.5	60.0	51.5	45.0	40.0	36.0	32.8
42.0	80.0	80.0	77.2	68.6	61.8	56.1	51.5	44.1	38.6	34.3	30.9	28.1
48.0	80.0	77.2	67.6	60.0	54.0	49.1	45.0	38.6	33.8	30.0	27.0	24.6
54.0	80.0	68.6	60.0	53.4	48.0	43.7	40.0	34.3	30.0	26.7	24.0	21.8
60.0	72.1	61.8	54.0	48.0	43.2	39.3	36.0	30.9	27.0	24.0	21.6	19.7
66.0	65.5	56.1	49.1	43.7	39.3	35.7	32.8	28.1	24.6	21.8	19.7	17.9
72.0	60.0	51.5	45.0	40.0	36.0	32.8	30.0	25.7	22.5	20.0	18.0	16.4
78.0	55.4	47.5	41.6	37.0	33.3	30.2	27.7	23.8	20.8	18.5	16.6	15.1
84.0	51.5	44.1	38.6	34.3	30.9	28.1	25.7	22.1	19.3	17.2	15.4	-
90.0	48.0	41.2	36.0	32.0	28.8	26.2	24.0	20.6	18.0	16.0	-	-
96.0	45.0	38.6	33.8	30.0	27.0	24.6	22.5	19.3	16.9	15.0	-	-
102.0	42.4	36.3	31.8	28.3	25.4	23.1	21.2	18.2	15.9	-	-	-
108.0	40.0	34.3	30.0	26.7	24.0	21.8	20.0	17.2	15.0	-	-	-
114.0	37.9	32.5	28.4	25.3	22.8	20.7	19.0	16.3	-	-	-	-
120.0	36.0	30.9	27.0	24.0	21.6	19.7	18.0	15.4	-	-	-	-
126.0	34.3	29.4	25.7	22.9	20.6	18.7	17.2	-	-	-	-	-
132.0	32.8	28.1	24.6	21.8	19.7	17.9	16.4	-	-	-	-	-
138.0	31.3	26.9	23.5	20.9	18.8	17.1	15.7	-	-	-	-	-
144.0	30.0	25.7	22.5	20.0	18.0	16.4	15.0	-	-	-	-	-
150.0	28.8	24.7	21.6	19.2	17.3	15.7	-	-	-	-	-	-
153.0	28.3	24.2	21.2	18.8	17.0	15.4	-	-	-	-	-	-



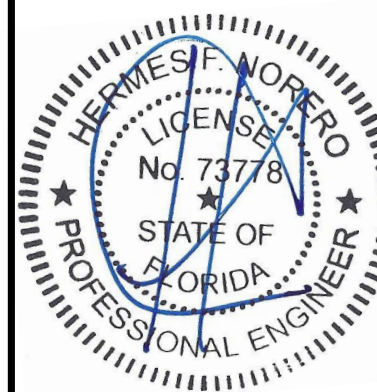
**NOTES:**

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TITLE: CUSTOM COLLECTION  
 1" ALUMINUM CLIPPED MULLION (HVHZ) (IMPACT)  
 2-WAY DESIGN PRESSURE TABLES - MASONRY STRAP INSTALLATION  
 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
6TH FBC CODE CHANGE	CL	8.31.17
ANCHOR UPDATE	SM	4.17.19
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8TH FBC CODE CHANGE	MG	2.06.23

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

DATE:	08.31.17	
DWG. BY:	CL	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	JW055	

SHEET: 13 OF 13