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WINDSOR WINDOWS & DOORS

PINNACLE CLAD MULLIONS FOR 3 1/4" FRAME

(NON-HVHZ)(NON-IMPACT)

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. REFER TO SHEETS 2 & 3 FOR INSTALLATION DETAILS, ANCHOR SELECTION, AND ANCHOR REQUIREMENTS.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. 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.
9. 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.
10. 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. GROUT-FILLED CMU-UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.


D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS

E. ALUMINUM- MINIMUM THICKNESS 1/8". MIN. 6063-T5

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC) EXCLUDING HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO SECTION 1709.8 OF THE FBC.
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.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** FOR THIS PRODUCT WHERE IMPACT PROTECTIVE SYSTEM IS REQUIRED.
6. MULLION MATERIAL: GLULAM LVL COMPOSITE, COMMON PINE OUTER, A36 STEEL.

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WINDSOR WINDOWS & DOORS  
A Woodgrain Millwork Company


WINDSOR WINDOWS & DOORS  
900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
INSTALLATION & GENERAL NOTES

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

REMARKS	BY	DATE
8TH FBC CODE CHANGE	MG	02/23

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  
LICENSE  
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 #:

FL21905

DATE:

12.14.20

DWG. BY:

YC

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

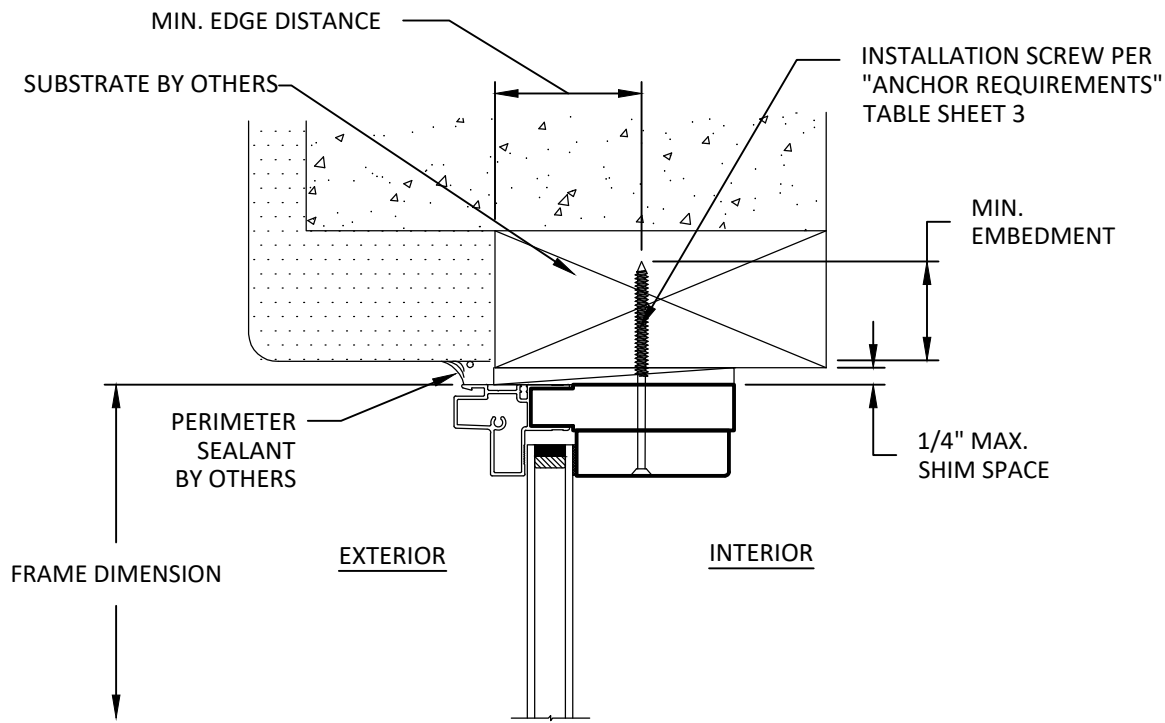
WWD053

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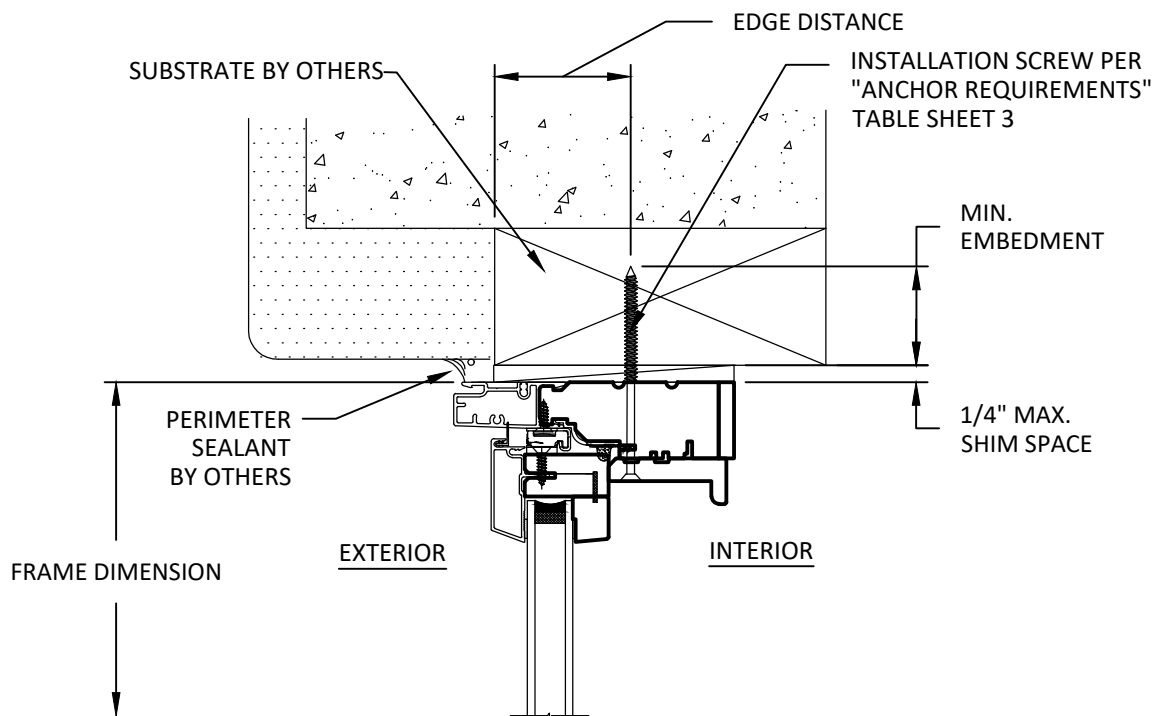
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OF 20

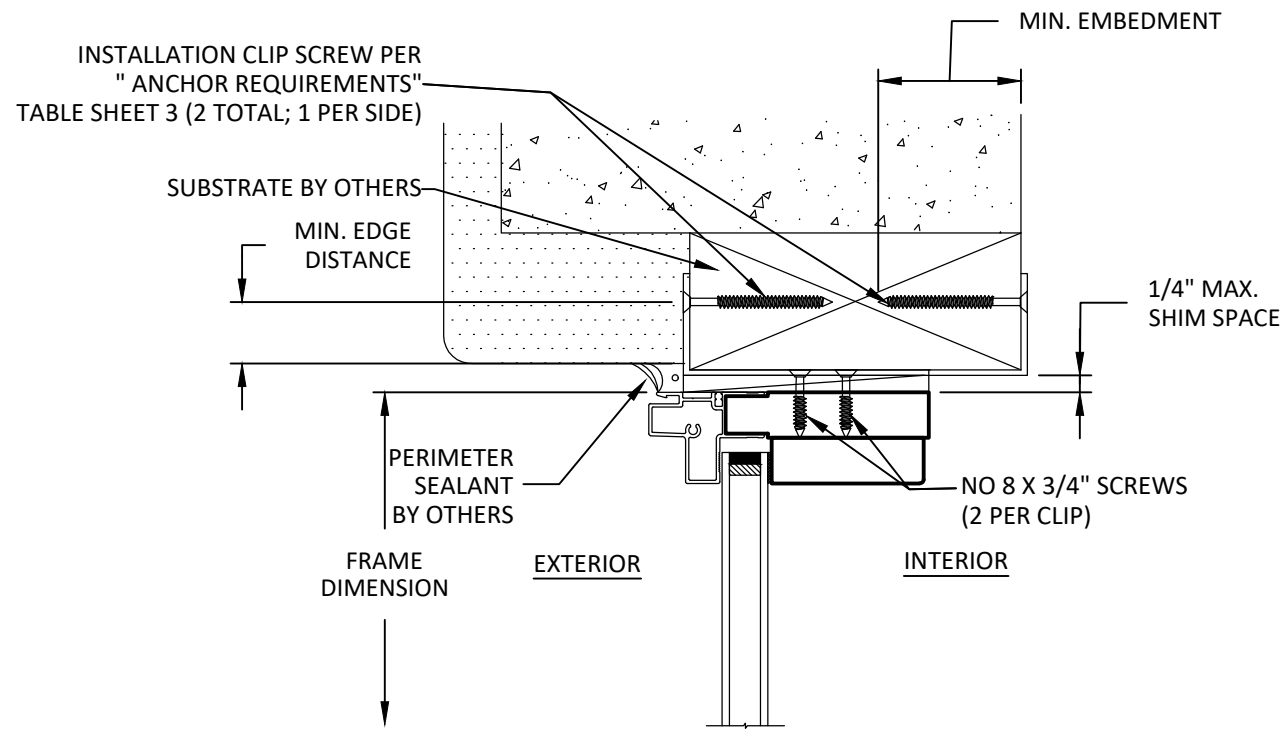
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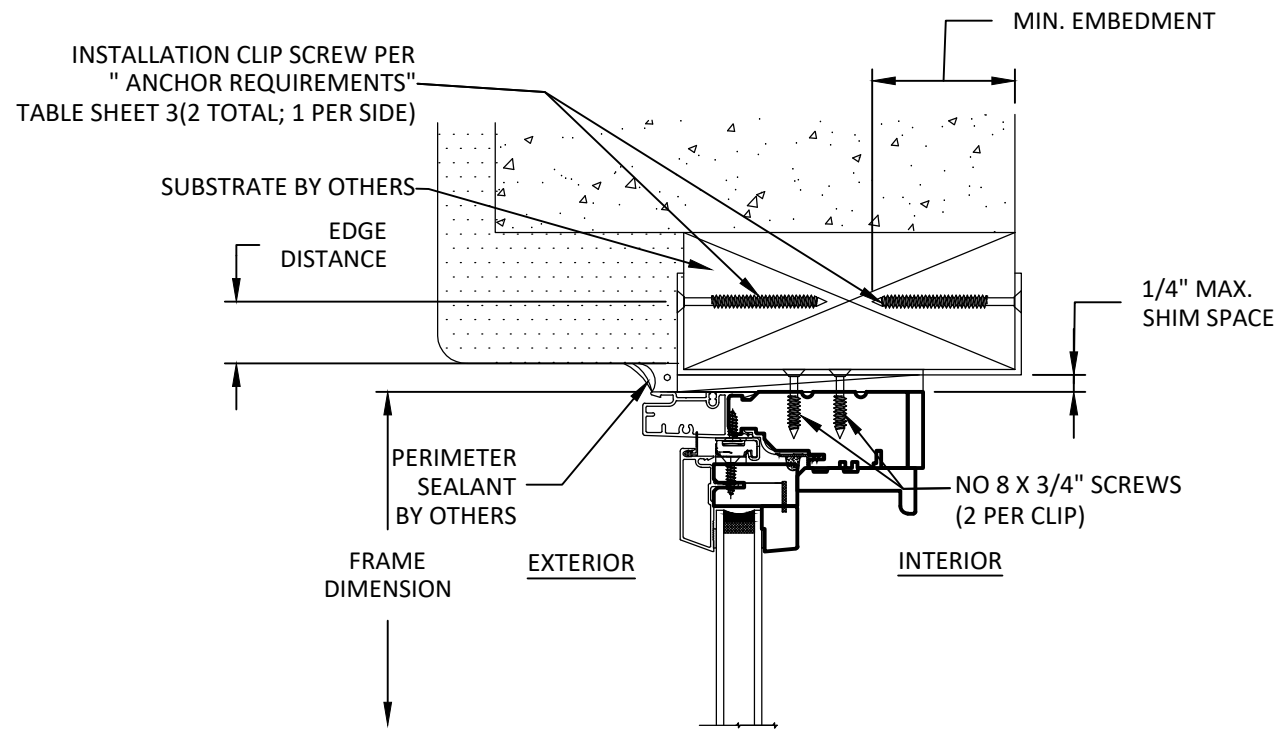
**A**  
**2** **HEAD SECTION**  
DIRECT SET THROUGH FRAME INSTALLATION  
(SILL & JAMBS SIMILAR)



**C**  
**2** **HEAD SECTION**  
CASEMENT THROUGH FRAME INSTALLATION  
(SILL & JAMB SIMILAR)



**B**  
**2** **HEAD SECTION**  
DIRECT SET STRAP INSTALLATION  
(SILL & JAMBS SIMILAR)



**D**  
**2** **HEAD SECTION**  
CASEMENT STRAP INSTALLATION  
(SILL & JAMBS SIMILAR)



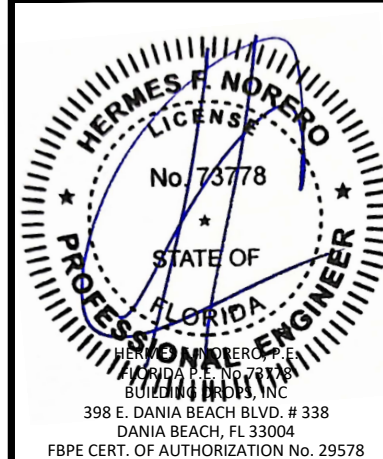
**WINDSOR WINDOWS  
& DOORS**  
900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
VERTICAL SECTIONS

PREPARED BY:  
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FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED  
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC  
DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:	<b>FL21905</b>
DATE:	<b>12.14.20</b>
DWG. BY:	<b>YC</b>
CHK. BY:	<b>HFN</b>
SCALE:	<b>NTS</b>
DWG. #:	<b>WWD053</b>
SHEET:	<b>2</b>

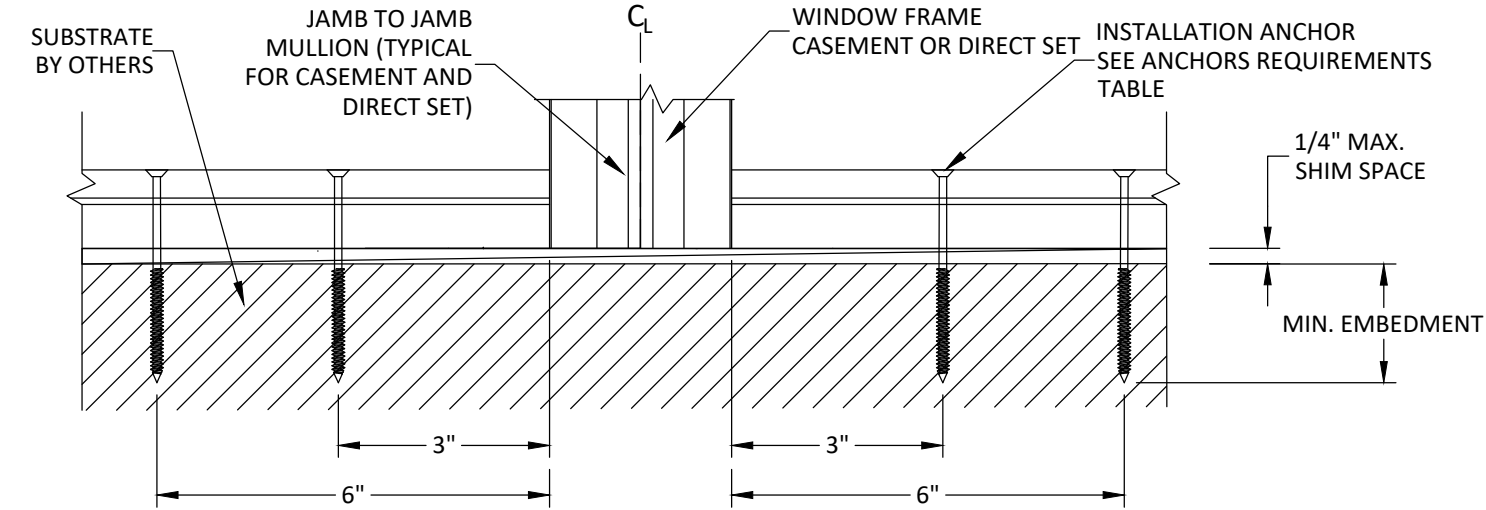
ANCHOR REQUIREMENTS			
ANCHOR SCHEDULE	SUBSTRATE	MIN EMBEDMENT	MIN. EDGE DISTANCE
#10 WOOD	WOOD: MIN. SG=0.55	1 1/4"	3/4"
#10 SELF-TAPPING OR SELF DRILLING SCREW	METAL: MIN. 18GAUGE STEEL , FY=33KSI	3 THREADS MIN. OF PENETRATION BEYOND METAL	1/2"
	METAL: MIN. 1/8" THICK ALUMINUM. 6063-T5 MIN.		
1/4" ELCO ULTRACON	CONCRETE: MIN. F'c=3000 PSI	1 1/4"	2 1/2"
1/4" ELCO ULTRACON	MASONRY: CMU PER ASTM C-90 MIN. 2000 PSI	1"	4"

MULLION NOTES:

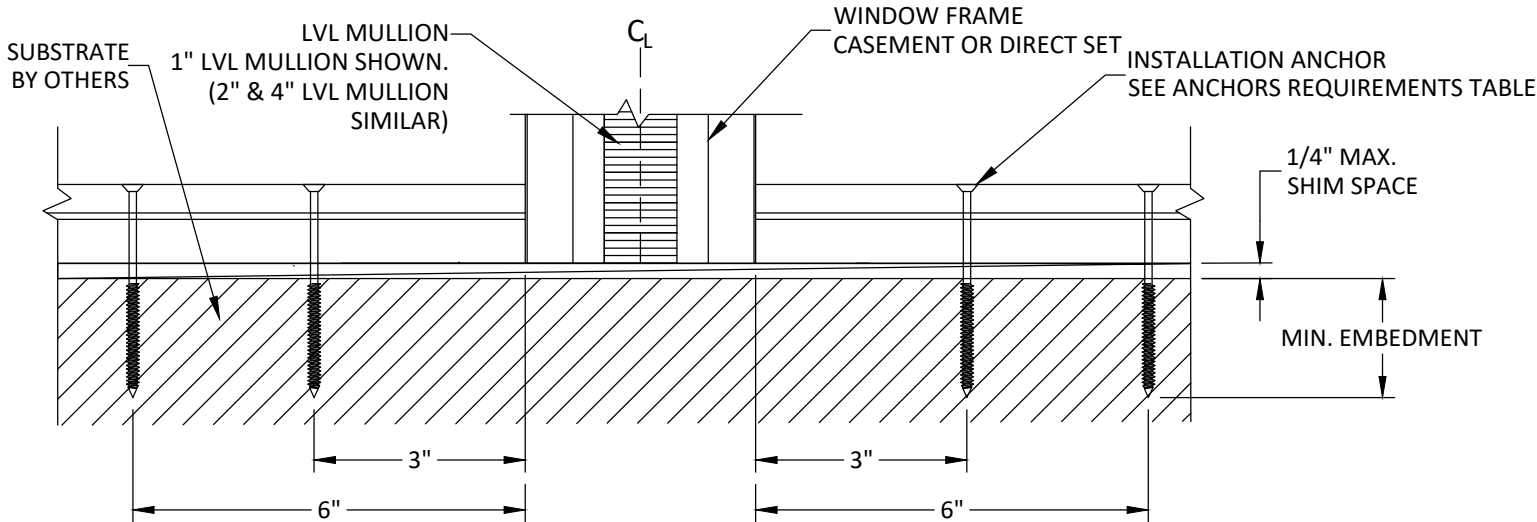
- WINDOW UNIT SHOWN ON THIS SHEET IS TYPICAL AND SHALL BE USED FOR DIAGRAMMATIC PURPOSES ONLY. ALL WINDOW AND DOOR PRODUCTS TO BE MULLED TO MULLION SHALL BE UNDER SEPARATE FL APPROVAL.
- MULLION SHOWN HEREIN MAY BE USED WITH APPROVED WINDOW OR DOOR PRODUCTS WHICH ARE COMPATIBLE WITH MULLION (E.G. WINDSOR WINDOWS PINNACLE CLAD SERIES PRODUCTS)
- INSTALLATION SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR SEALING & ASSEMBLY. SHOULD MANUFACTURER'S INSTALLATION INSTRUCTION AND THOSE SHOWN HEREIN DEViate, THE DRAWINGS HEREIN SHALL GOVERN.
- TWO ANCHORS CLUSTERED TO EACH SIDE OF MULLION, SPACED 3" & 6" AWAY FROM MULLION AT BOTH ENDS.

ANCHOR NOTES:

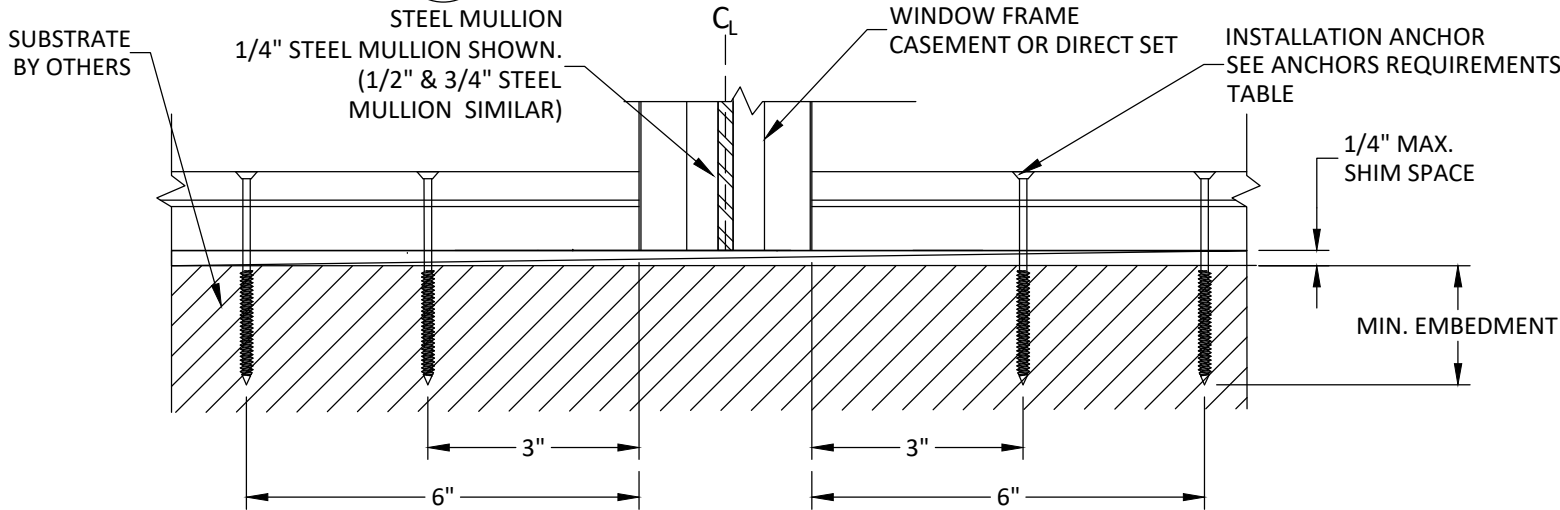
- THROUGH FRAME OPTION SHOWN. STRAP INSTALLATION TO FOLLOW SAME LAYOUT AND SPACING.
- SILL SHOWN . HEAD AND JAMBS SIMILAR



**A**  
**3**  
**ANCHOR DETAIL**  
THROUGH FRAME



**B**  
**3**  
**ANCHOR DETAIL**  
THROUGH FRAME



**C**  
**3**  
**ANCHOR DETAIL**  
THROUGH FRAME



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& DOORS

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TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
MULLION NOTES,  
ANCHOR REQUIREMENTS & LAYOUT

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SCALE: **NTS**

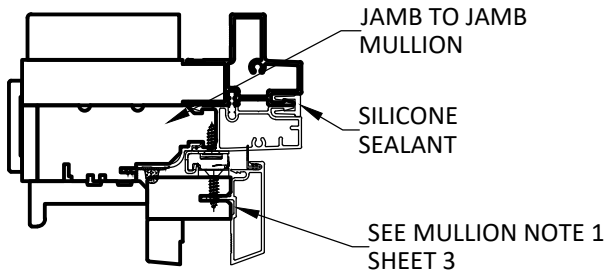
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SHEET:  
**3**

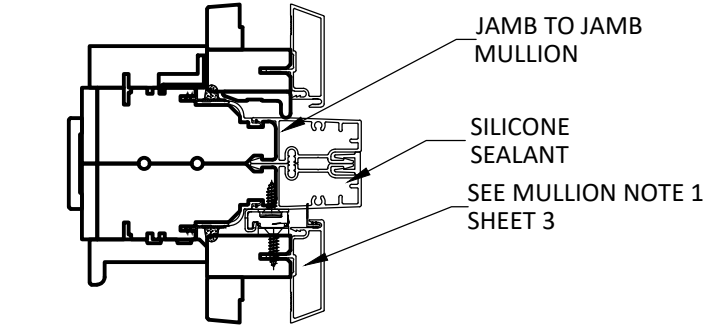


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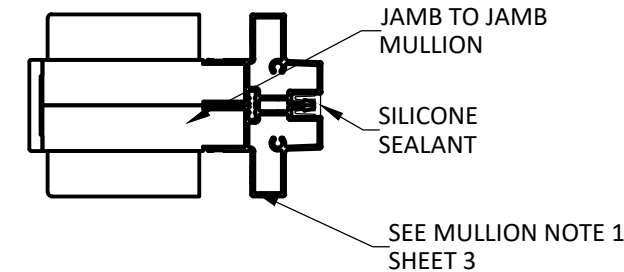
ZERO MULLION WITH 3 1/4" FRAME



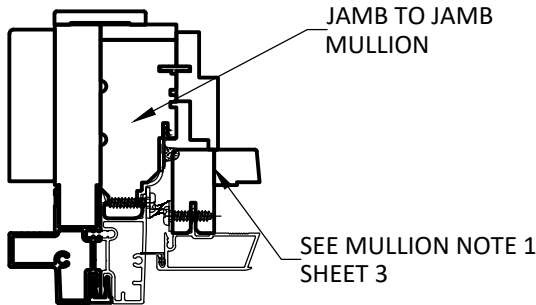
**A**  
**4**  
**CASEMENT/DIRECT SET**  
HORIZONTAL MULLION



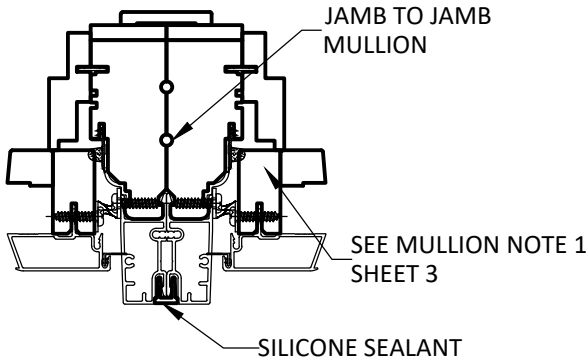
**B**  
**4**  
**CASEMENT/CASEMENT**  
HORIZONTAL MULLION



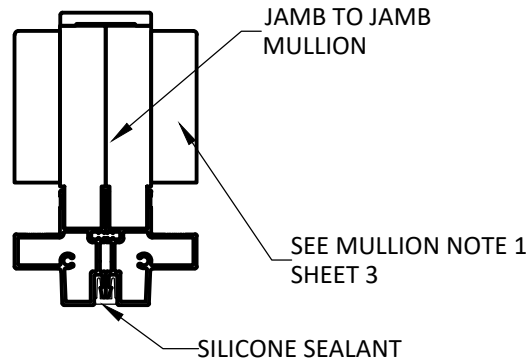
**C**  
**4**  
**DIRECT SET/DIRECT SET**  
HORIZONTAL MULLION



**D**  
**4**  
**CASEMENT/DIRECT SET**  
VERTICAL MULLION



**E**  
**4**  
**CASEMENT/DIRECT SET**  
VERTICAL MULLION



**F**  
**4**  
**DIRECT SET/DIRECT SET**  
VERTICAL MULLION



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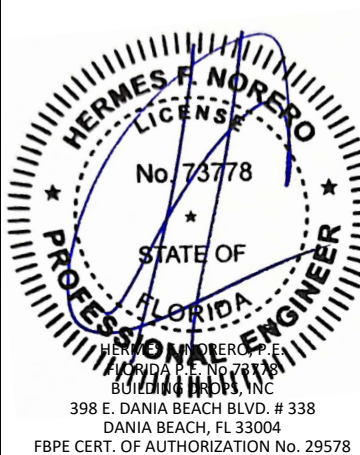
**TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)/(NON-IMPACT)  
ZERO MULLION  
VERTICAL AND HORIZONTAL  
SECTION**

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**BUILDING DROPS**

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**FL #:**  
**FL21905**

**DATE:** 12.14.20

**DWG. BY:** YC **CHK. BY:** HFN

**SCALE:** NTS

**DWG. #:** WWD053

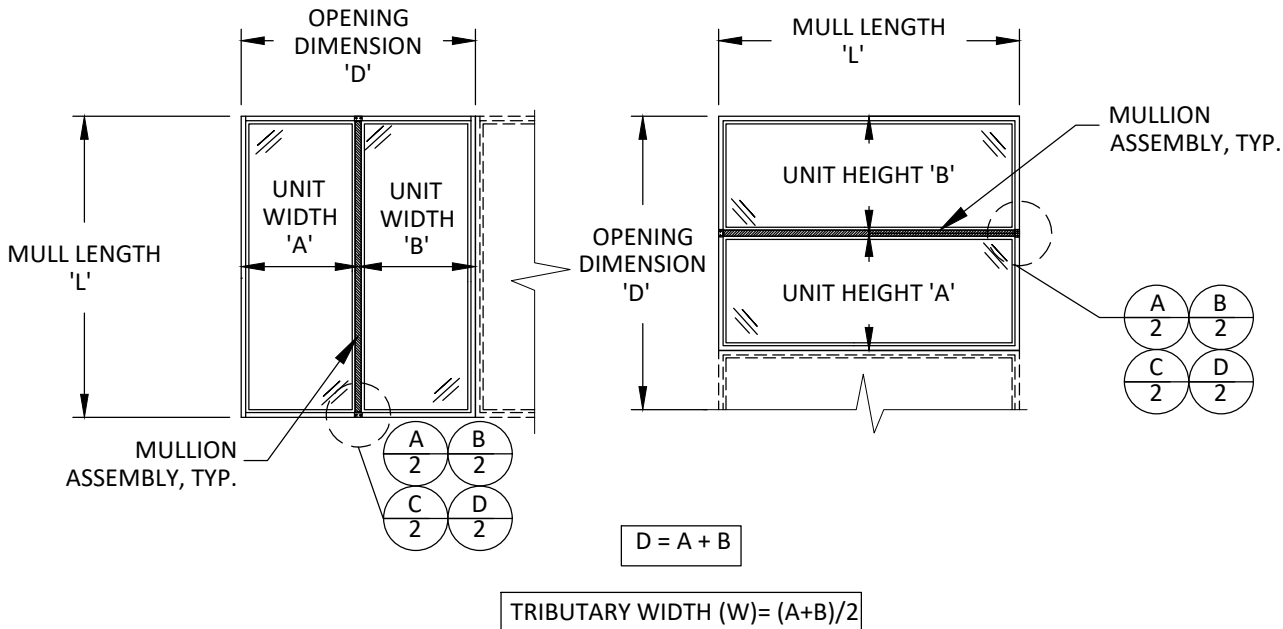
**SHEET:**  
**4**  
**OF 20**

ZERO MULLION (3 1/4" FRAME)- THROUGH FRAME & STRAP INSTALLATION  
(CASEMENT/CASEMENT)(CASEMENT/DIRECT SET)

ONE WAY-MAXIMUM DESIGN PRESSURE CAPACITY (PSF): ZERO MULLION FRAME													
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
42.0	150.0	140.8	129.0	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3
48.0	122.0	102.9	91.8	85.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
54.0	94.6	78.8	69.2	63.3	60.0	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
60.0	75.6	62.5	54.2	48.9	45.5	43.6	43.0	43.0	43.0	43.0	43.0	43.0	43.0
66.0	61.9	50.8	43.8	39.1	35.9	33.9	32.7	32.3	32.3	32.3	32.3	32.3	32.3
72.0	50.3	41.3	35.5	31.6	29.0	27.1	25.9	25.1	24.9	24.9	24.9	24.9	24.9
78.0	39.3	32.2	27.5	24.4	22.1	20.6	19.5	18.7	18.3	18.2	18.2	18.2	18.2
84.0	31.3	25.5	21.8	19.2	17.3	16.0	15.0	-	-	-	-	-	-
90.0	25.3	20.6	17.5	15.4	-	-	-	-	-	-	-	-	-
96.0	20.8	16.9	-	-	-	-	-	-	-	-	-	-	-
102.0	17.3	-	-	-	-	-	-	-	-	-	-	-	-
108.0	-	-	-	-	-	-	-	-	-	-	-	-	-
114.0	-	-	-	-	-	-	-	-	-	-	-	-	-
120.0	-	-	-	-	-	-	-	-	-	-	-	-	-
126.0	-	-	-	-	-	-	-	-	-	-	-	-	-
132.0	-	-	-	-	-	-	-	-	-	-	-	-	-
138.0	-	-	-	-	-	-	-	-	-	-	-	-	-
144.0	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

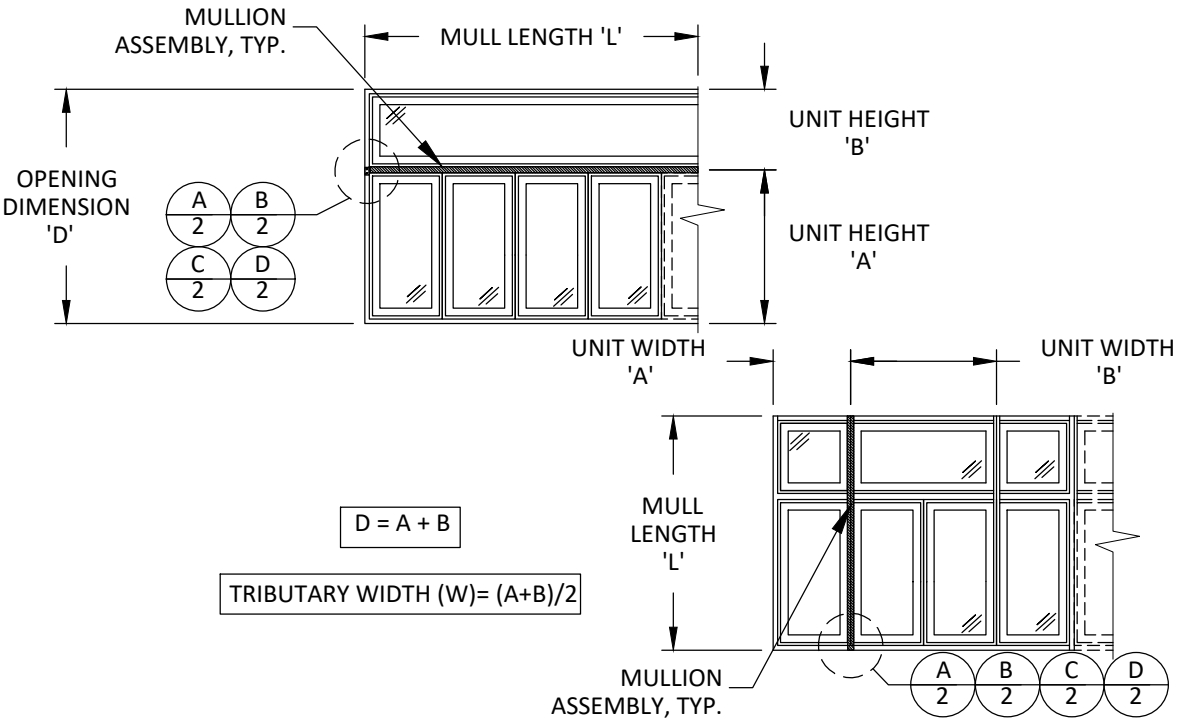
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ARE APPLICABLE FOR INSTALLATION PROCEDURES ON SHEET 3.
- WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
- DESIGN 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.



TWO WAY-MAXIMUM DESIGN PRESSURE CAPACITY (PSF): ZERO MULLION (3 1/4" Frame)													
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
36.0	150.0	142.7	118.9	101.9	89.2	79.3	71.3	64.9	59.4	54.9	51.0	47.6	44.6
48.0	111.9	89.5	74.6	63.9	55.9	49.7	44.8	40.7	37.3	34.4	32.0	29.8	28.0
60.0	71.6	57.3	47.7	40.9	35.8	31.8	28.6	26.0	23.9	22.0	20.5	19.1	17.9
72.0	48.1	38.5	32.1	27.5	24.1	21.4	19.2	17.5	16.0	-	-	-	-
84.0	30.3	24.2	20.2	17.3	15.1	-	-	-	-	-	-	-	-
96.0	20.3	16.2	-	-	-	-	-	-	-	-	-	-	-
108.0	-	-	-	-	-	-	-	-	-	-	-	-	-
120.0	-	-	-	-	-	-	-	-	-	-	-	-	-
132.0	-	-	-	-	-	-	-	-	-	-	-	-	-
144.0	-	-	-	-	-	-	-	-	-	-	-	-	-
156.0	-	-	-	-	-	-	-	-	-	-	-	-	-
168.0	-	-	-	-	-	-	-	-	-	-	-	-	-
180.0	-	-	-	-	-	-	-	-	-	-	-	-	-
192.0	-	-	-	-	-	-	-	-	-	-	-	-	-
204.0	-	-	-	-	-	-	-	-	-	-	-	-	-
216.0	-	-	-	-	-	-	-	-	-	-	-	-	-
228.0	-	-	-	-	-	-	-	-	-	-	-	-	-
240.0	-	-	-	-	-	-	-	-	-	-	-	-	-

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 ARE APPLICABLE FOR INSTALLATION PROCEDURES ON SHEET 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.



WINDSOR WINDOWS  
& DOORS

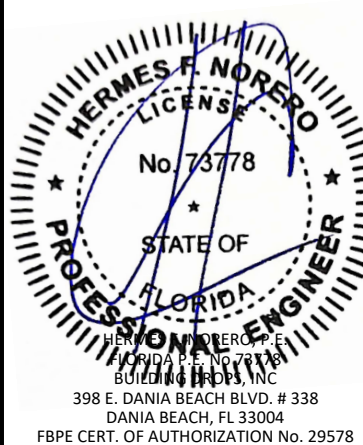
900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
ZERO MULLION (3 1/4" FRAME)  
(CASEMENT/CASEMENT)  
(DIRECT SET/CASEMENT)

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

REMARKS BY DATE  
8TH FBC CODE CHANGE MG 02/23

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.



FL #: FL21905

DATE: 12.14.20

DWG. BY: YC CHK. BY: HFN

SCALE: NTS

DWG. #: WWD053

SHEET: 5

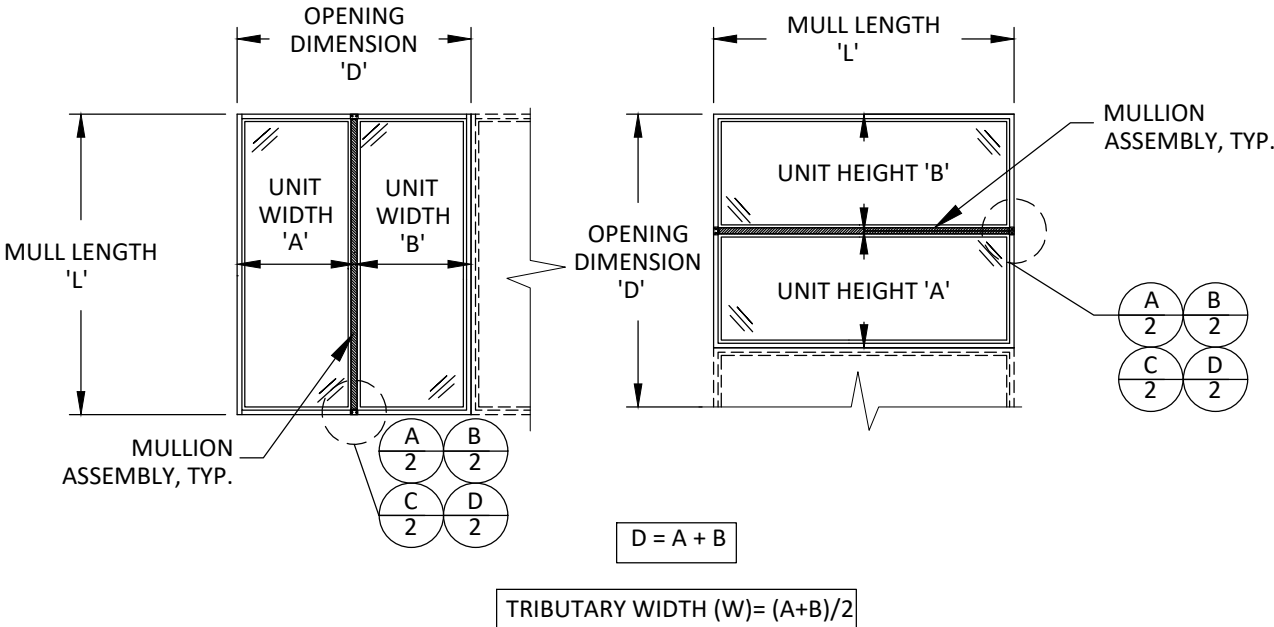
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ZERO MULLION (3 1/4" FRAME)- THROUGH FRAME & STRAP INSTALLATION  
(DIRECT SET/DIRECT SET)

ONE WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): ZERO MULLION (3 1/4" FRAME)													
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
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
48.0	150.0	150.0	136.0	127.2	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3
54.0	140.2	116.7	102.4	93.7	88.9	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
60.0	112.1	92.6	80.3	72.4	67.4	64.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7
66.0	91.7	75.3	64.9	57.9	53.2	50.1	48.4	47.8	47.8	47.8	47.8	47.8	47.8
72.0	76.5	62.5	53.6	47.5	43.2	40.3	38.3	37.2	36.8	36.8	36.8	36.8	36.8
78.0	60.8	49.7	42.5	37.6	34.2	31.8	30.1	29.0	28.3	28.1	28.1	28.1	28.1
84.0	48.4	39.4	33.6	29.6	26.8	24.7	23.2	22.1	21.4	21.0	20.9	20.9	20.9
90.0	39.2	31.9	27.1	23.8	21.4	19.6	18.3	17.4	16.7	16.2	16.0	15.9	15.9
96.0	32.1	26.1	22.1	19.4	17.4	15.9	-	-	-	-	-	-	-
102.0	26.7	21.7	18.3	16.0	-	-	-	-	-	-	-	-	-
108.0	22.5	18.2	15.4	-	-	-	-	-	-	-	-	-	-
114.0	19.1	15.4	-	-	-	-	-	-	-	-	-	-	-
120.0	16.3	-	-	-	-	-	-	-	-	-	-	-	-
126.0	-	-	-	-	-	-	-	-	-	-	-	-	-
132.0	-	-	-	-	-	-	-	-	-	-	-	-	-
138.0	-	-	-	-	-	-	-	-	-	-	-	-	-
144.0	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

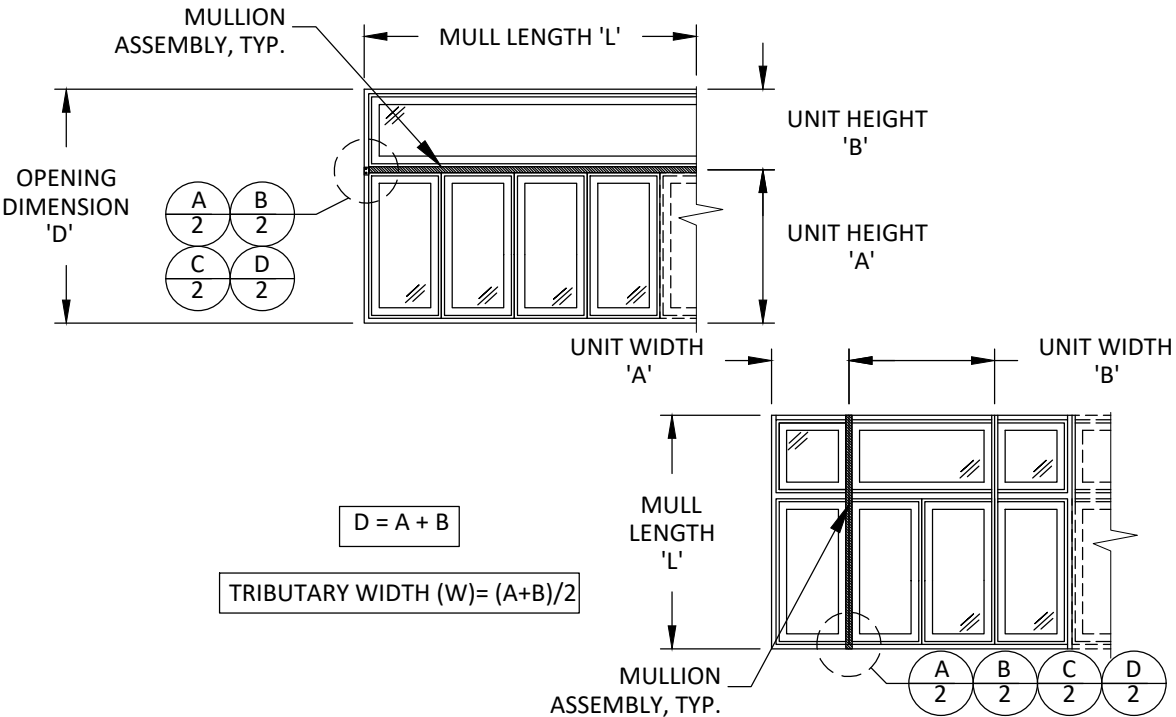
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ARE APPLICABLE FOR INSTALLATION PROCEDURES ON SHEET 3.
- WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
- DESIGN 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.



TWO WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): ZERO MULLION (3 1/4" FRAME)													
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
36.0	150.0	142.7	118.9	101.9	89.2	79.3	71.3	64.9	59.4	54.9	51.0	47.6	44.6
48.0	133.8	107.0	89.2	76.4	66.9	59.4	53.5	48.6	44.6	41.2	38.2	35.7	33.4
60.0	106.1	84.9	70.7	60.6	53.0	47.1	42.4	38.6	35.4	32.6	30.3	28.3	26.5
72.0	73.7	58.9	49.1	42.1	36.8	32.7	29.5	26.8	24.6	22.7	21.0	19.6	18.4
84.0	46.8	37.4	31.2	26.7	23.4	20.8	18.7	17.0	15.6	-	-	-	-
96.0	31.4	25.1	20.9	17.9	15.7	-	-	-	-	-	-	-	-
108.0	22.0	17.6	-	-	-	-	-	-	-	-	-	-	-
120.0	16.1	-	-	-	-	-	-	-	-	-	-	-	-
132.0	-	-	-	-	-	-	-	-	-	-	-	-	-
144.0	-	-	-	-	-	-	-	-	-	-	-	-	-
156.0	-	-	-	-	-	-	-	-	-	-	-	-	-
168.0	-	-	-	-	-	-	-	-	-	-	-	-	-
180.0	-	-	-	-	-	-	-	-	-	-	-	-	-
192.0	-	-	-	-	-	-	-	-	-	-	-	-	-
204.0	-	-	-	-	-	-	-	-	-	-	-	-	-
216.0	-	-	-	-	-	-	-	-	-	-	-	-	-
228.0	-	-	-	-	-	-	-	-	-	-	-	-	-
240.0	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

- 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
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- 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.



WINDSOR WINDOWS  
& DOORS

900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

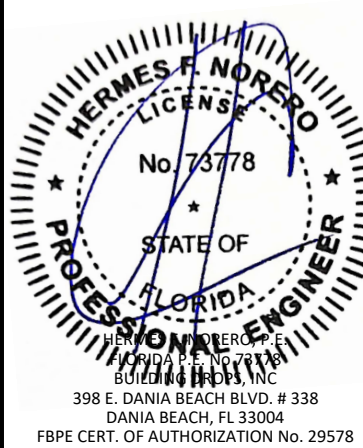
TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
ZERO MULLION (3 1/4" FRAME)  
(DIRECT SET/DIRECT SET)

PREPARED BY:  
BUILDING DROPS, INC.  
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REMARKS BY DATE  
8TH FBC CODE CHANGE MG 02/23

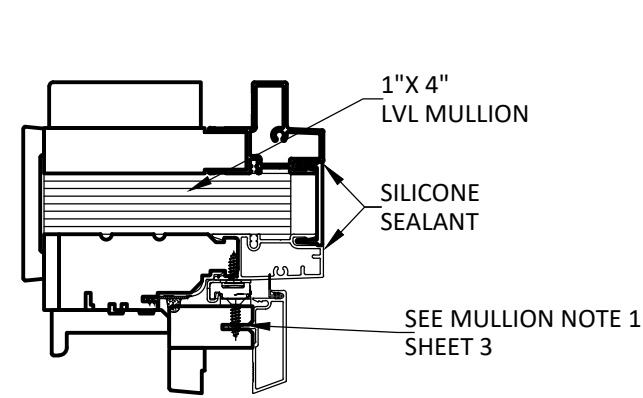
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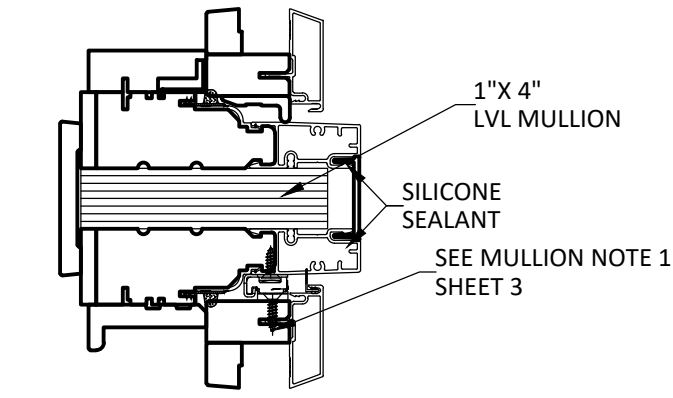
FL #: FL21905  
DATE: 12.14.20  
DWG. BY: YC CHK. BY: HFN  
SCALE: NTS  
DWG. #: WWD053  
SHEET: 6

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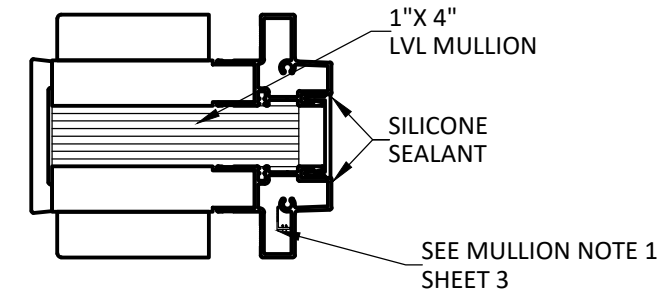
1" LVL MULLION WITH 3 1/4" FRAME



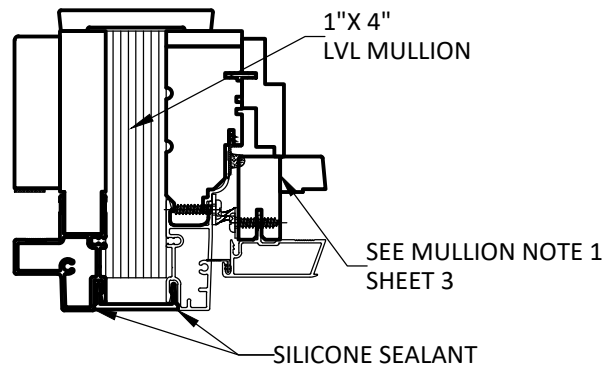
A  
2 CASEMENT/DIRECT SET  
HORIZONTAL MULLION



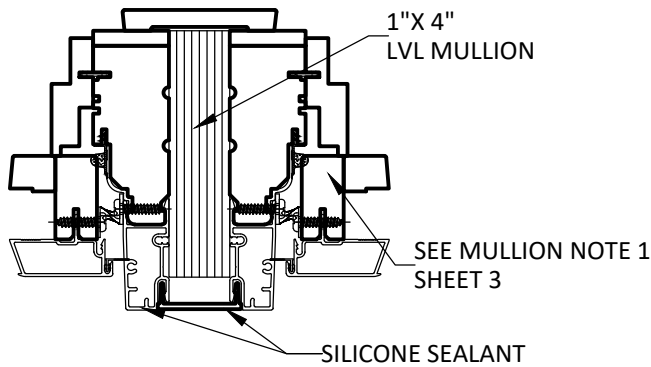
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7 CASEMENT/CASEMENT  
HORIZONTAL MULLION



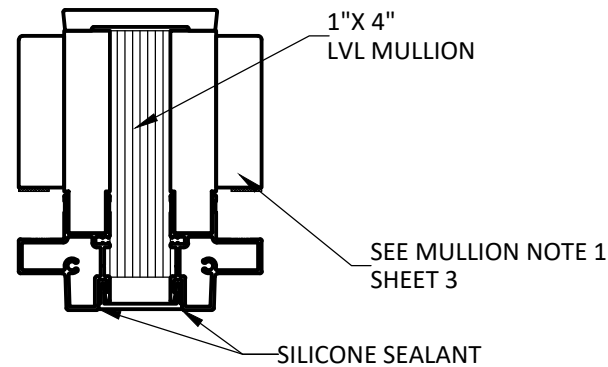
C  
7 DIRECT SET/DIRECT SET  
HORIZONTAL MULLION



D  
7 CASEMENT/DIRECT SET  
VERTICAL MULLION



E  
7 CASEMENT/DIRECT SET  
VERTICAL MULLION



F  
7 DIRECT SET/DIRECT SET  
VERTICAL MULLION



WINDSOR WINDOWS  
& DOORS  
900 S. 19TH STREET.  
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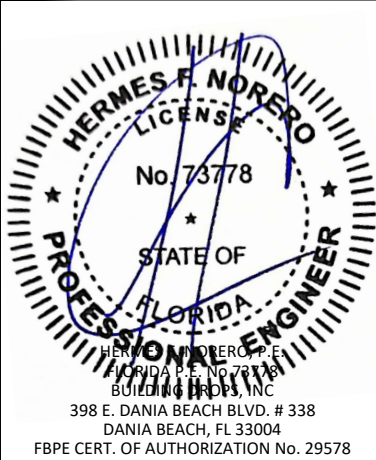
TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)/(NON-IMPACT)  
1" LVL MULLION  
VERTICAL AND HORIZONTAL  
SECTION

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
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REMARKS	BY	DATE
8TH FBC CODE CHANGE	MG	02/23

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FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED  
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC  
DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:	FL21905
DATE:	12.14.20
DWG. BY:	CHK. BY:
YC	HFN
SCALE:	NTS
DWG. #:	WWD053
SHEET:	7



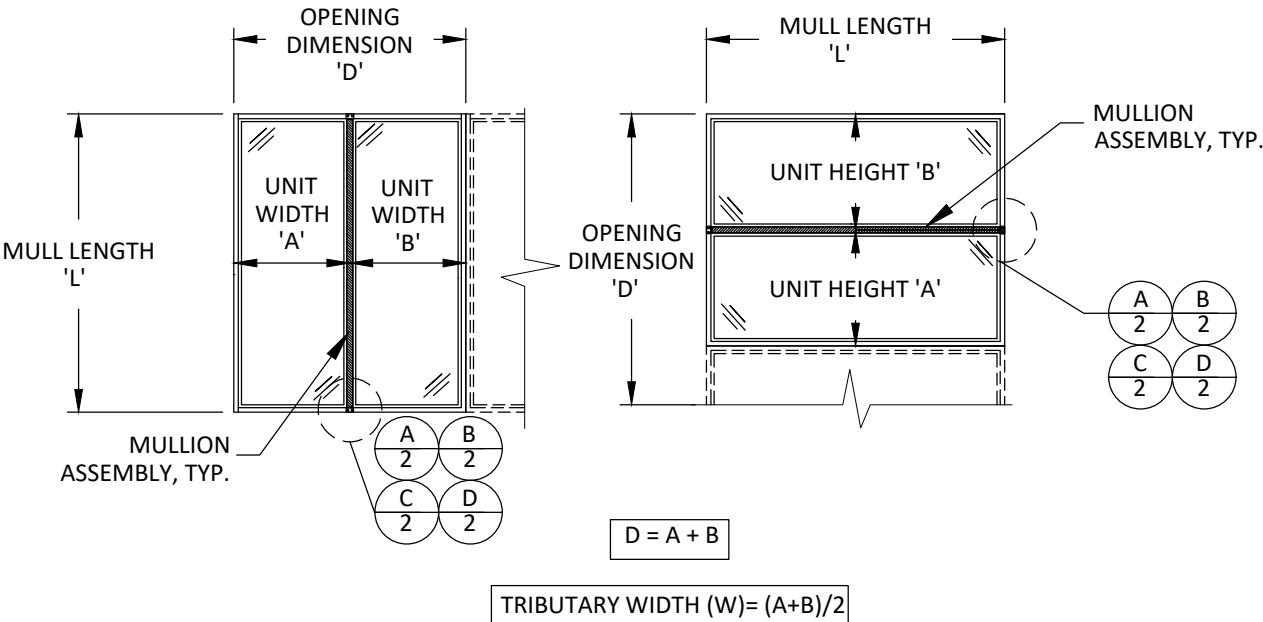
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1" LVL MULLION (3 1/4" FRAME)- THROUGH FRAME & STRAP INSTALLATION  
(CASEMENT/CASEMENT)(CASEMENT/DIRECT SET)

ONE WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 1" LVL MULLION (3 1/4" FRAME)													
L-MULLION LENGTH (IN)	W- TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
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
48.0	150.0	150.0	142.7	135.9	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8
54.0	150.0	131.7	118.9	111.2	107.0	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7
60.0	133.8	114.1	101.9	94.1	89.2	86.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6
66.0	118.9	100.7	89.2	81.5	76.4	73.2	71.3	70.7	70.7	70.7	70.7	70.7	70.7
72.0	107.0	90.1	79.3	71.9	66.9	63.4	61.1	59.9	59.4	59.4	59.4	59.4	59.4
78.0	97.3	81.5	71.3	64.3	58.4	54.3	51.4	49.5	48.4	48.0	48.0	48.0	48.0
84.0	82.6	67.4	57.5	50.6	45.7	42.2	39.6	37.8	36.6	35.9	35.7	35.7	35.7
90.0	66.9	54.4	46.3	40.6	36.5	33.5	31.3	29.7	28.5	27.7	27.3	27.1	27.1
96.0	54.9	44.6	37.8	33.1	29.7	27.1	25.2	23.7	22.7	21.9	21.3	21.0	20.9
102.0	45.6	37.0	31.3	27.3	24.4	22.3	20.6	19.3	18.3	17.6	17.1	16.7	16.5
108.0	38.4	31.0	26.2	22.9	20.4	18.5	17.1	16.0	15.1	-	-	-	-
114.0	32.5	26.3	22.2	19.3	17.2	15.6	-	-	-	-	-	-	-
120.0	27.8	22.5	19.0	16.5	-	-	-	-	-	-	-	-	-
126.0	24.0	19.4	16.3	-	-	-	-	-	-	-	-	-	-
132.0	20.9	16.8	-	-	-	-	-	-	-	-	-	-	-
138.0	18.2	-	-	-	-	-	-	-	-	-	-	-	-
144.0	16.0	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

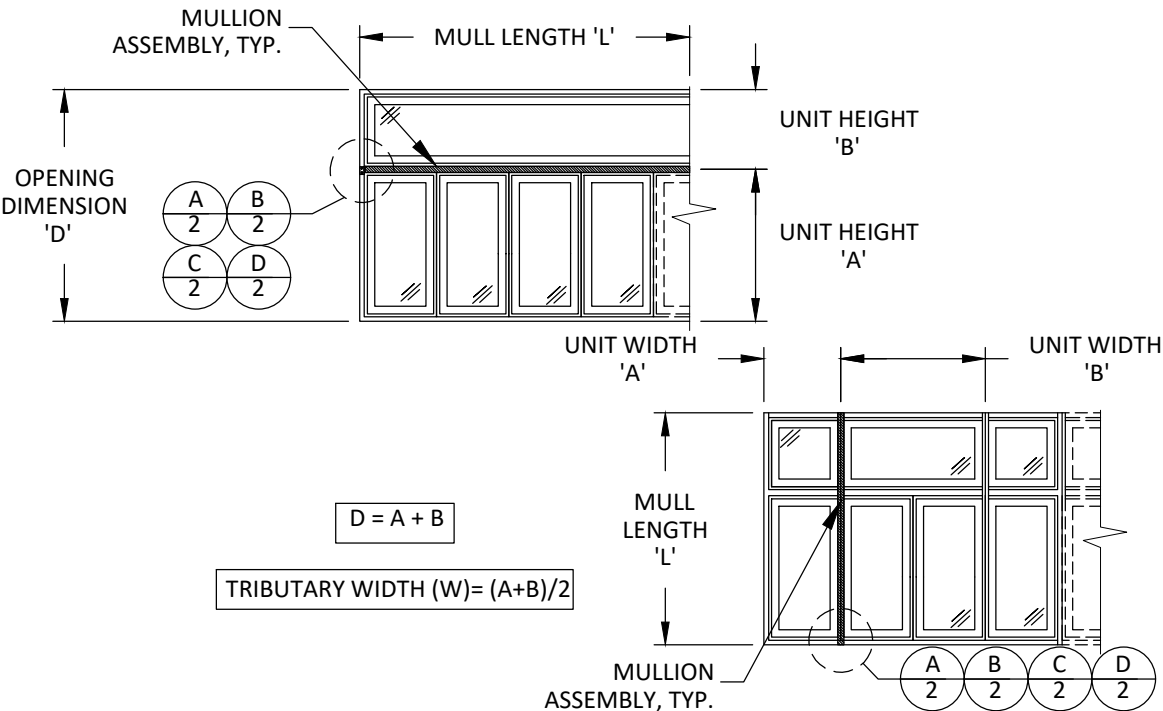
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
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- MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW OR DOOR UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.



TWO WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 1" LVL MULLION (3 1/4" FRAME)													
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
36.0	150.0	142.7	118.9	101.9	89.2	79.3	71.3	64.9	59.4	54.9	51.0	47.6	44.6
48.0	133.8	107.0	89.2	76.4	66.9	59.4	53.5	48.6	44.6	41.2	38.2	35.7	33.4
60.0	107.0	85.6	71.3	61.1	53.5	47.6	42.8	38.9	35.7	32.9	30.6	28.5	26.8
72.0	89.2	71.3	59.4	51.0	44.6	39.6	35.7	32.4	29.7	27.4	25.5	23.8	22.3
84.0	76.4	61.1	51.0	43.7	38.2	34.0	30.6	27.8	25.5	23.5	21.8	20.4	19.1
96.0	53.6	42.8	35.7	30.6	26.8	23.8	21.4	19.5	17.9	16.5	15.3	-	-
108.0	37.6	30.1	25.1	21.5	18.8	16.7	15.0	-	-	-	-	-	-
120.0	27.4	21.9	18.3	15.7	-	-	-	-	-	-	-	-	-
132.0	20.6	16.5	-	-	-	-	-	-	-	-	-	-	-
144.0	15.9	-	-	-	-	-	-	-	-	-	-	-	-
156.0	-	-	-	-	-	-	-	-	-	-	-	-	-
168.0	-	-	-	-	-	-	-	-	-	-	-	-	-
180.0	-	-	-	-	-	-	-	-	-	-	-	-	-
192.0	-	-	-	-	-	-	-	-	-	-	-	-	-
204.0	-	-	-	-	-	-	-	-	-	-	-	-	-
216.0	-	-	-	-	-	-	-	-	-	-	-	-	-
228.0	-	-	-	-	-	-	-	-	-	-	-	-	-
240.0	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

- 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
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- MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW OR DOOR UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.



WINDSOR WINDOWS  
& DOORS

900 S. 19TH STREET.  
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PH: (515)223-6660 FAX: (515)224-1938

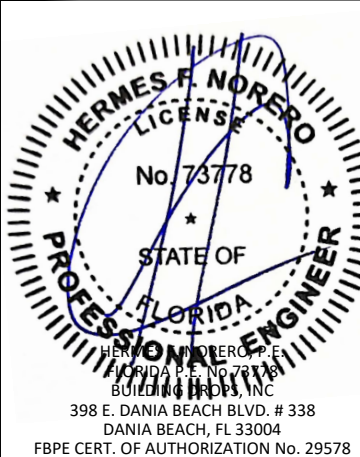
TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
1" LVL MULLION (3 1/4" FRAME)  
(CASEMENT/CASEMENT)  
(DIRECT SET/CASEMENT)

PREPARED BY:  
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REMARKS	BY	DATE
8TH FBC CODE CHANGE	MG	02/23

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FL #:	FL21905
DATE:	12.14.20
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	WWD053
SHEET:	00



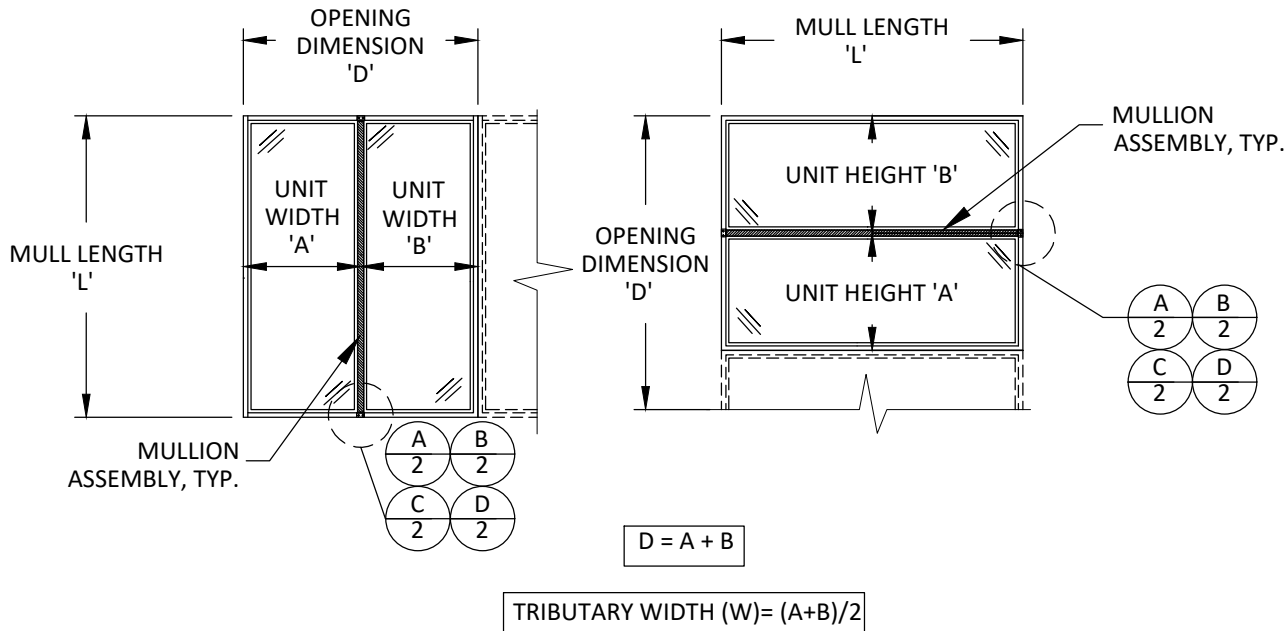
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1" LVL MULLION (3 1/4" FRAME)- THROUGH FRAME & STRAP INSTALLATION  
(DIRECT SET/DIRECT SET)

L-MULLION LENGTH (IN)	ONE WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 1" LVL MULLION (3 1/4" FRAME)												
	W - TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
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
48.0	150.0	150.0	142.7	135.9	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8
54.0	150.0	131.7	118.9	111.2	107.0	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7
60.0	133.8	114.1	101.9	94.1	89.2	86.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6
66.0	118.9	100.7	89.2	81.5	76.4	73.2	71.3	70.7	70.7	70.7	70.7	70.7	70.7
72.0	107.0	90.1	79.3	71.9	66.9	63.4	61.1	59.9	59.4	59.4	59.4	59.4	59.4
78.0	97.3	81.5	71.3	64.4	59.4	56.0	53.5	51.9	51.0	50.7	50.7	50.7	50.7
84.0	89.2	74.4	64.9	58.2	53.1	48.8	45.6	43.3	41.8	40.9	40.6	40.6	40.6
90.0	80.8	65.7	55.9	49.0	44.1	40.5	37.8	35.8	34.4	33.5	32.9	32.7	32.7
96.0	66.3	53.8	45.7	40.0	35.8	32.7	30.4	28.7	27.4	26.4	25.8	25.4	25.3
102.0	55.1	44.7	37.8	33.0	29.5	26.9	24.9	23.3	22.2	21.3	20.6	20.2	19.9
108.0	46.3	37.5	31.7	27.6	24.6	22.4	20.6	19.3	18.2	17.4	16.8	16.3	16.0
114.0	39.3	31.8	26.8	23.3	20.8	18.8	17.3	16.1	15.2	-	-	-	-
120.0	33.6	27.2	22.9	19.9	17.7	16.0	-	-	-	-	-	-	-
126.0	29.0	23.4	19.7	17.1	15.2	-	-	-	-	-	-	-	-
132.0	25.2	20.3	17.1	-	-	-	-	-	-	-	-	-	-
138.0	22.0	17.7	-	-	-	-	-	-	-	-	-	-	-
144.0	19.4	15.6	-	-	-	-	-	-	-	-	-	-	-

NOTES:

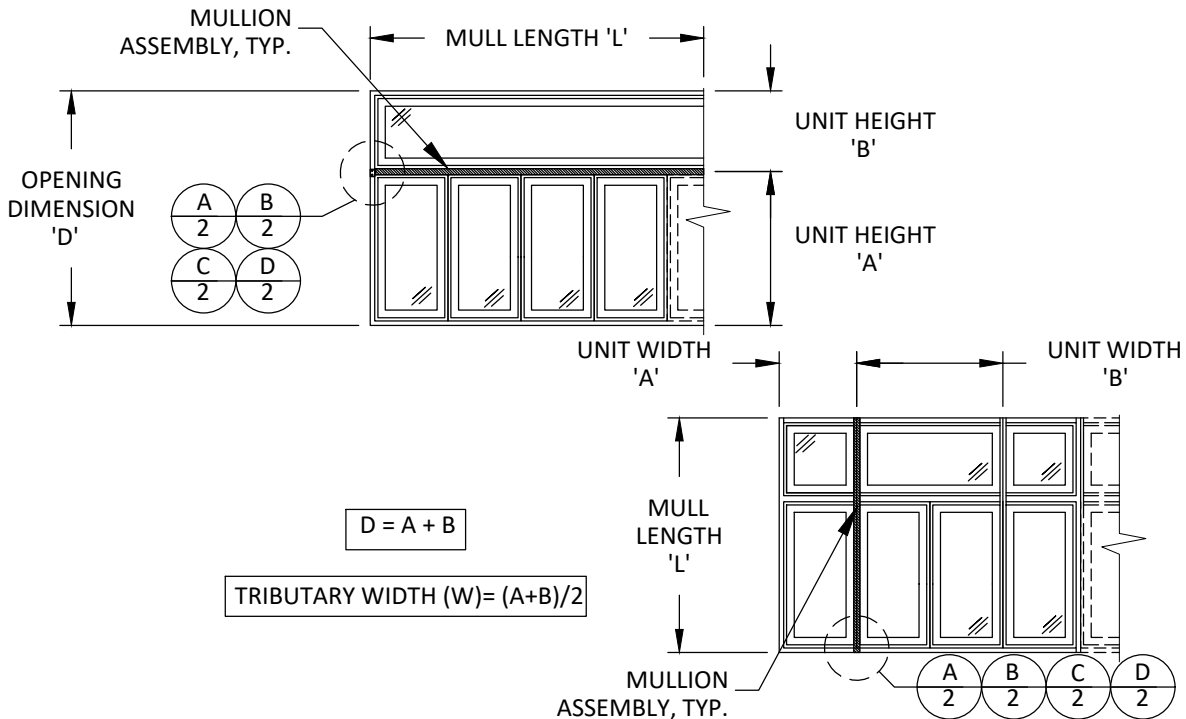
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ARE APPLICABLE FOR INSTALLATION PROCEDURES ON SHEET 3.
- WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
- DESIGN 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.



L-MULLION LENGTH (IN)	TWO WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 1" LVL MULLION (3 1/4" FRAME)												
	W - TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
36.0	150.0	142.7	118.9	101.9	89.2	79.3	71.3	64.9	59.4	54.9	51.0	47.6	44.6
48.0	133.8	107.0	89.2	76.4	66.9	59.4	53.5	48.6	44.6	41.2	38.2	35.7	33.4
60.0	107.0	85.6	71.3	61.1	53.5	47.6	42.8	38.9	35.7	32.9	30.6	28.5	26.8
72.0	89.2	71.3	59.4	51.0	44.6	39.6	35.7	32.4	29.7	27.4	25.5	23.8	22.3
84.0	76.4	61.1	51.0	43.7	38.2	34.0	30.6	27.8	25.5	23.5	21.8	20.4	19.1
96.0	64.7	51.7	43.1	36.9	32.3	28.7	25.9	23.5	21.6	19.9	18.5	17.2	16.2
108.0	45.4	36.3	30.3	26.0	22.7	20.2	18.2	16.5	15.1	-	-	-	-
120.0	33.1	26.5	22.1	18.9	16.6	-	-	-	-	-	-	-	-
132.0	24.9	19.9	16.6	-	-	-	-	-	-	-	-	-	-
144.0	19.2	15.3	-	-	-	-	-	-	-	-	-	-	-
156.0	15.1	-	-	-	-	-	-	-	-	-	-	-	-
168.0	-	-	-	-	-	-	-	-	-	-	-	-	-
180.0	-	-	-	-	-	-	-	-	-	-	-	-	-
192.0	-	-	-	-	-	-	-	-	-	-	-	-	-
204.0	-	-	-	-	-	-	-	-	-	-	-	-	-
216.0	-	-	-	-	-	-	-	-	-	-	-	-	-
228.0	-	-	-	-	-	-	-	-	-	-	-	-	-
240.0	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

- 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
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- 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.



WINDSOR WINDOWS  
& DOORS

900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

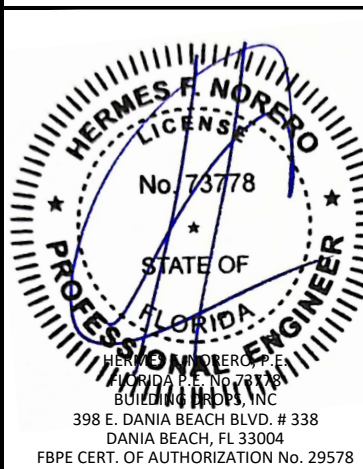
TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
1" LVL MULLION (3 1/4" FRAME)  
(DIRECT SET/DIRECT SET)

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS BY DATE  
8TH FBC CODE CHANGE MG 02/23

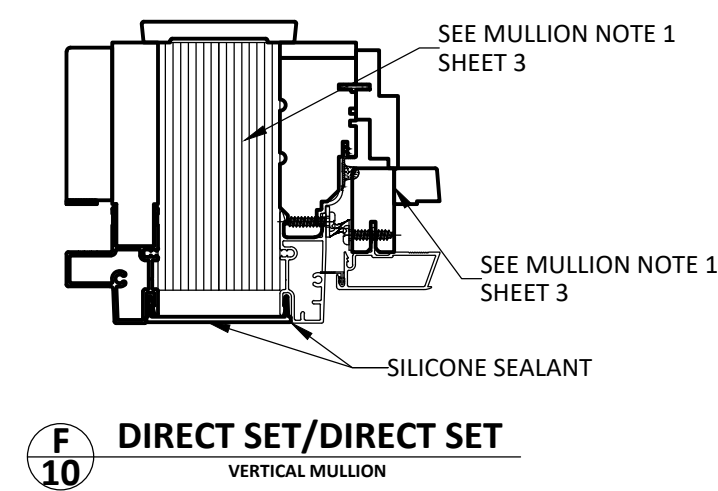
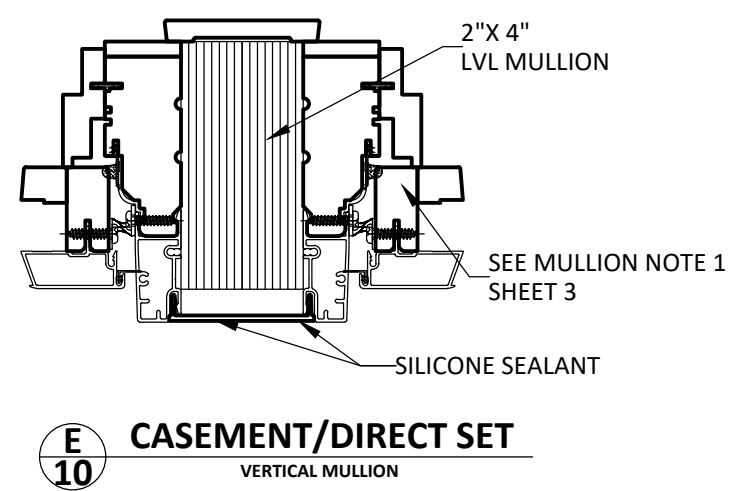
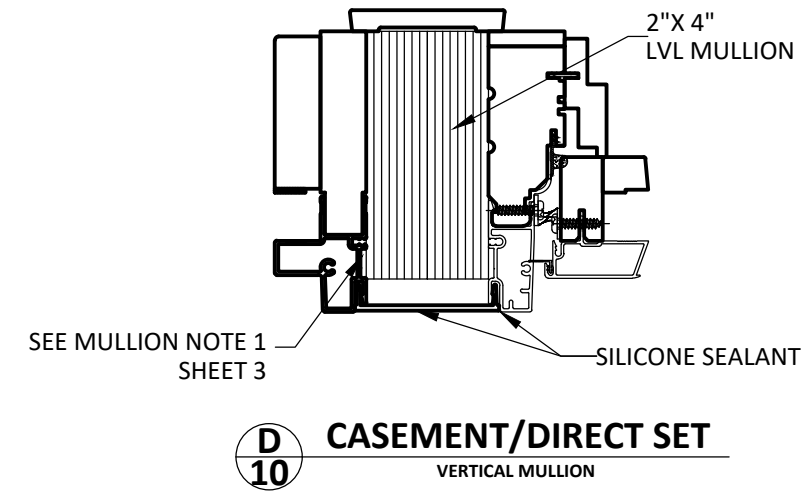
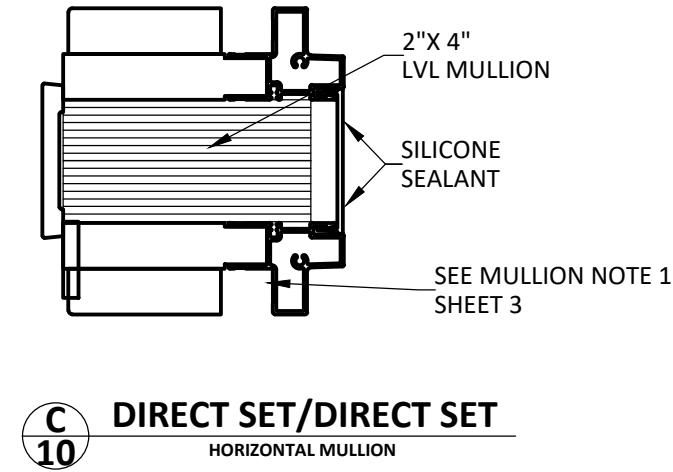
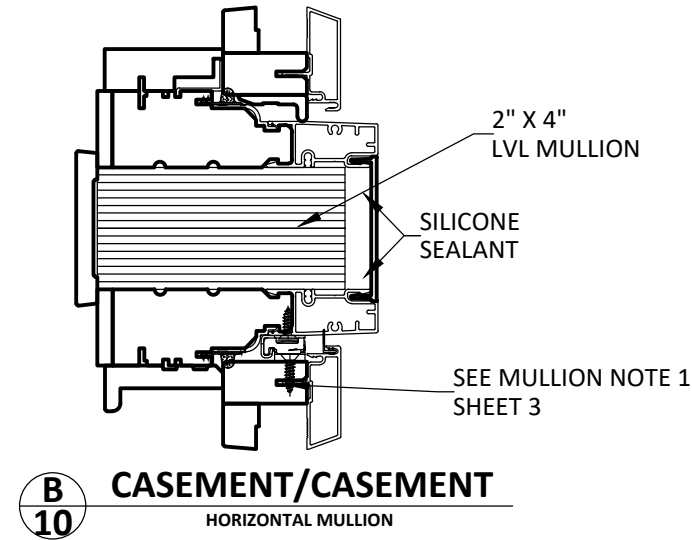
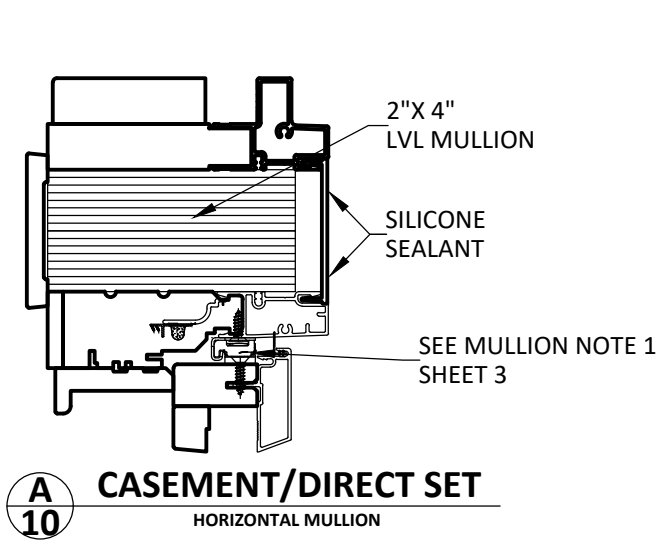
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #: FL21905  
DATE: 12.14.20  
DWG. BY: YC CHK. BY: HFN  
SCALE: NTS  
DWG. #: WWD053  
SHEET: 9

6/5/2023 1:32 PM  
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z:\projects\windsor windows and doors\cc-22-1132 - fbc 2023 code change.dwg

2" LVL MULLION WITH 3 1/4" FRAME



WINDSOR WINDOWS  
& DOORS  
900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)/(NON-IMPACT)  
2" LVL MULLION  
VERTICAL AND HORIZONTAL  
SECTIONS

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE
8TH FBC CODE CHANGE	MG	02/23

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FL #:	FL21905
DATE:	12.14.20
DWG. BY:	CHK. BY:
YC	HFN
SCALE:	NTS
DWG. #:	WWD053
SHEET:	10
	OF 20

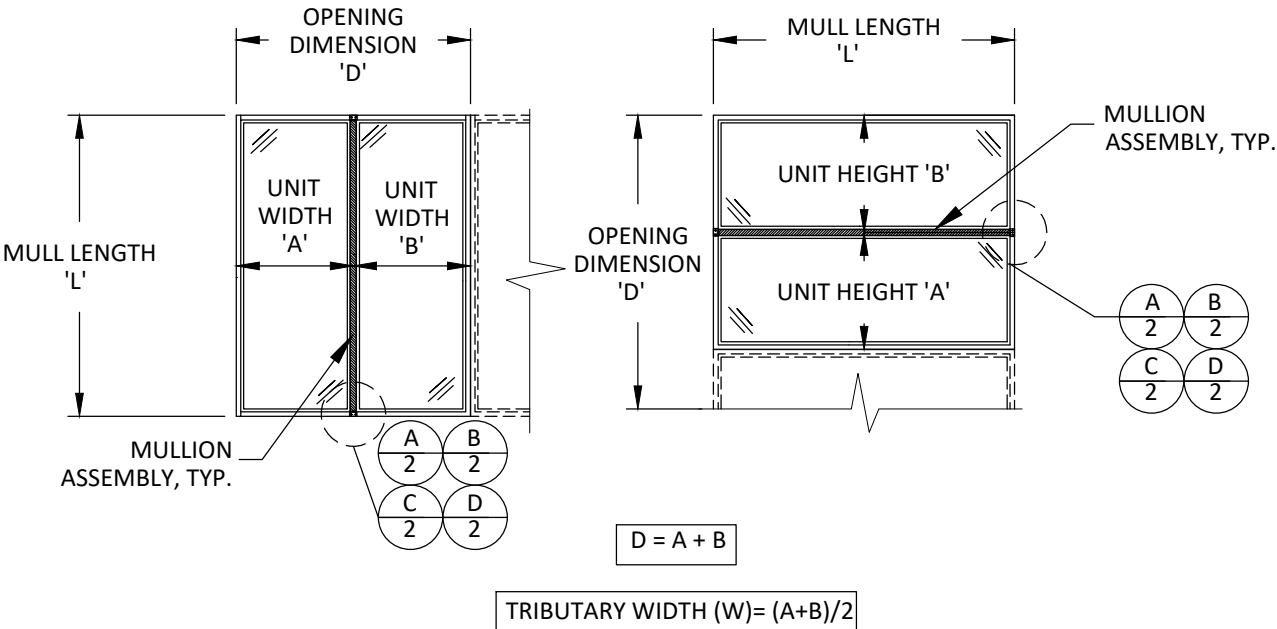
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2" LVL MULLION (3 1/4" FRAME)- THROUGH FRAME & STRAP INSTALLATION  
(CASEMENT/CASEMENT)(CASEMENT/DIRECT SET)

L-MULLION LENGTH (IN)	ONE WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 2" LVL MULLION (3 1/4" FRAME)													
	W - TRIBUTARY WIDTH (IN)													
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	
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	
48.0	150.0	150.0	142.7	135.9	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	
54.0	150.0	131.7	118.9	111.2	107.0	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	
60.0	133.8	114.1	101.9	94.1	89.2	86.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	
66.0	118.9	100.7	89.2	81.5	76.4	73.2	71.3	70.7	70.7	70.7	70.7	70.7	70.7	
72.0	107.0	90.1	79.3	71.9	66.9	63.4	61.1	59.9	59.4	59.4	59.4	59.4	59.4	
78.0	97.3	81.5	71.3	64.4	59.4	56.0	53.5	51.8	50.5	50.1	50.1	50.1	50.1	
84.0	89.2	74.4	64.9	58.2	52.5	48.2	45.1	42.8	41.3	40.4	40.1	40.1	40.1	
90.0	82.3	67.7	57.4	50.2	45.0	41.1	38.2	36.1	34.5	33.4	32.8	32.6	32.6	
96.0	73.2	59.2	50.1	43.7	39.1	35.6	32.9	30.9	29.4	28.2	27.5	27.0	26.9	
102.0	64.7	52.3	44.1	38.4	34.2	31.1	28.7	26.8	25.3	24.2	23.4	22.8	22.5	
108.0	57.6	46.5	39.2	34.1	30.3	27.4	25.2	23.5	22.1	21.1	20.2	19.6	19.2	
114.0	51.6	41.6	35.0	30.4	27.0	24.4	22.4	20.8	19.5	18.5	17.7	17.1	16.6	
120.0	45.1	36.4	30.7	26.7	23.7	21.5	19.7	18.3	17.2	16.3	15.6	15.0	-	
126.0	38.9	31.4	26.4	23.0	20.4	18.4	16.9	15.6	-	-	-	-	-	
132.0	33.8	27.3	22.9	19.9	17.6	15.9	-	-	-	-	-	-	-	
138.0	29.5	23.8	20.0	17.3	15.3	-	-	-	-	-	-	-	-	
144.0	26.0	20.9	17.6	15.2	-	-	-	-	-	-	-	-	-	

NOTES:

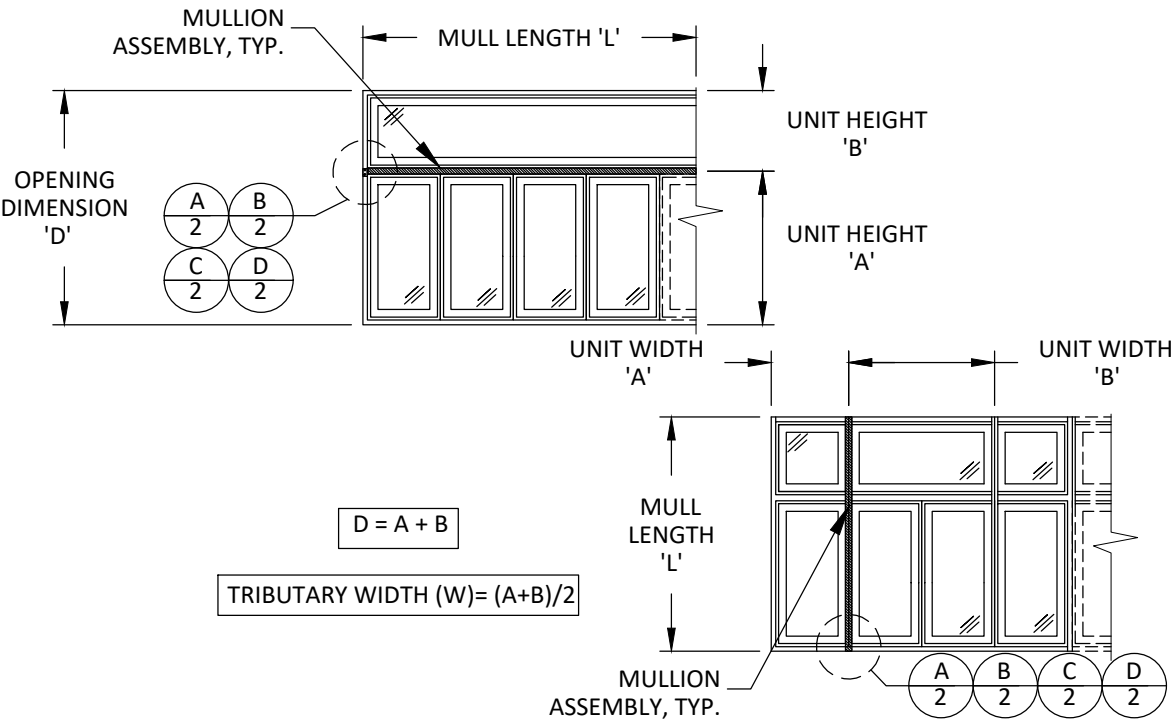
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
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TWO WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 2" LVL MULLION (3 1/4" FRAME)														
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)													
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	
36.0	150.0	142.7	118.9	101.9	89.2	79.3	71.3	64.9	59.4	54.9	51.0	47.6	44.6	
48.0	133.8	107.0	89.2	76.4	66.9	59.4	53.5	48.6	44.6	41.2	38.2	35.7	33.4	
60.0	107.0	85.6	71.3	61.1	53.5	47.6	42.8	38.9	35.7	32.9	30.6	28.5	26.8	
72.0	89.2	71.3	59.4	51.0	44.6	39.6	35.7	32.4	29.7	27.4	25.5	23.8	22.3	
84.0	76.4	61.1	51.0	43.7	38.2	34.0	30.6	27.8	25.5	23.5	21.8	20.4	19.1	
96.0	66.9	53.5	44.6	38.2	33.4	29.7	26.8	24.3	22.3	20.6	19.1	17.8	16.7	
108.0	56.6	45.3	37.7	32.3	28.3	25.2	22.6	20.6	18.9	17.4	16.2	15.1	-	
120.0	44.4	35.5	29.6	25.4	22.2	19.7	17.8	16.2	-	-	-	-	-	
132.0	33.4	26.7	22.3	19.1	16.7	-	-	-	-	-	-	-	-	
144.0	25.7	20.6	17.1	-	-	-	-	-	-	-	-	-	-	
156.0	20.2	16.2	-	-	-	-	-	-	-	-	-	-	-	
168.0	16.2	-	-	-	-	-	-	-	-	-	-	-	-	
180.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
192.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
204.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
216.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
228.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
240.0	-	-	-	-	-	-	-	-	-	-	-	-	-	

NOTES:

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WINDSOR WINDOWS & DOORS

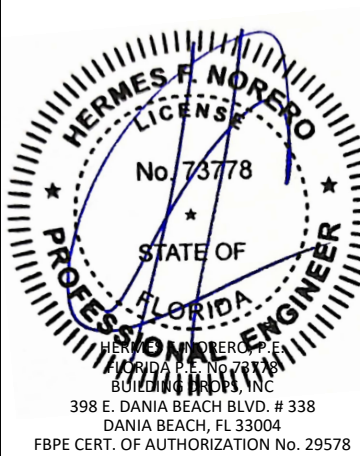
900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
2" LVL MULLION (3 1/4" FRAME)  
(CASEMENT/CASEMENT)  
(DIRECT SET/CASEMENT)

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
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REMARKS BY DATE  
8TH FBC CODE CHANGE MG 02/23

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FL #: FL21905  
DATE: 12.14.20  
DWG. BY: YC CHK. BY: HFN  
SCALE: NTS  
DWG. #: WWD053  
SHEET: 11 OF 20



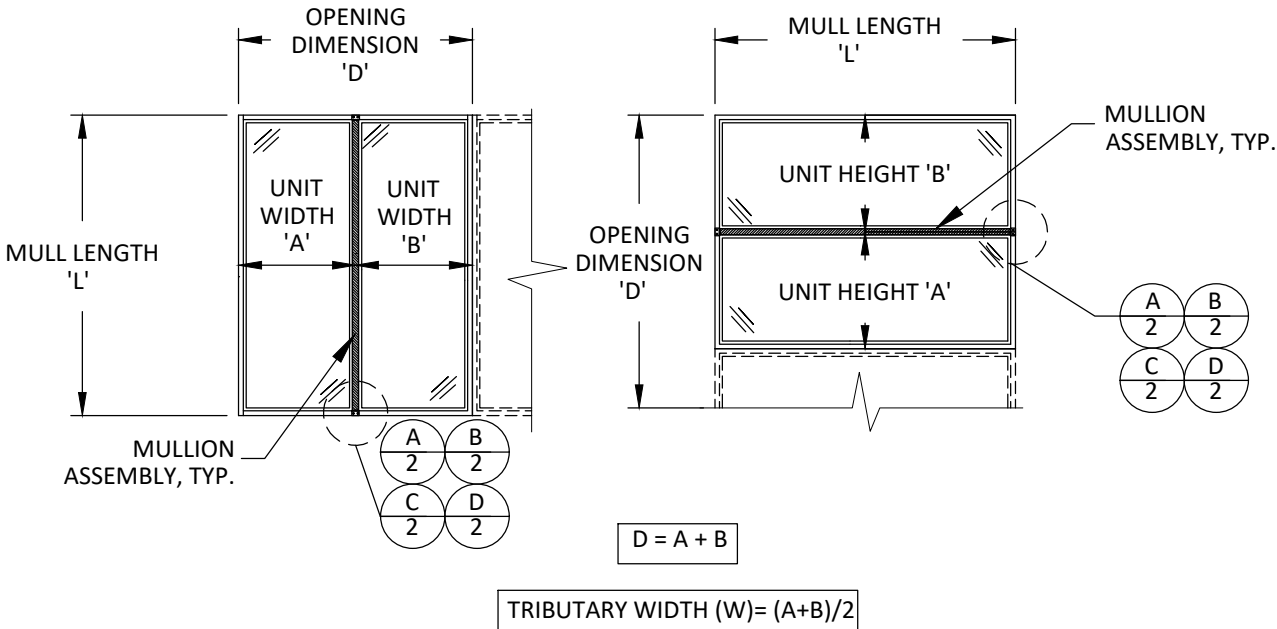
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2" LVL MULLION (3 1/4" FRAME)- THROUGH FRAME & STRAP INSTALLATION  
(DIRECT SET/DIRECT SET)

ONE WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 2" LVL MULLION (3 1/4" FRAME)													
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
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
48.0	150.0	150.0	142.7	135.9	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8
54.0	150.0	131.7	118.9	111.2	107.0	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7
60.0	133.8	114.1	101.9	94.1	89.2	86.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6
66.0	118.9	100.7	89.2	81.5	76.4	73.2	71.3	70.7	70.7	70.7	70.7	70.7	70.7
72.0	107.0	90.1	79.3	71.9	66.9	63.4	61.1	59.9	59.4	59.4	59.4	59.4	59.4
78.0	97.3	81.5	71.3	64.4	59.4	56.0	53.5	51.9	51.0	50.7	50.7	50.7	50.7
84.0	89.2	74.4	64.9	58.2	53.5	50.1	47.6	45.8	44.6	43.9	43.7	43.7	43.7
90.0	82.3	68.5	59.4	53.2	48.6	45.3	42.8	41.0	39.6	38.7	38.2	38.0	38.0
96.0	76.4	63.4	54.9	48.9	44.6	41.4	38.9	37.1	35.7	34.7	34.0	33.6	33.4
102.0	71.3	59.0	51.0	45.3	41.2	38.0	35.7	33.8	32.4	31.4	30.6	30.0	29.7
108.0	66.9	55.2	47.6	41.8	37.3	33.9	31.2	29.2	27.6	26.4	25.4	24.7	24.3
114.0	59.5	48.1	40.6	35.3	31.4	28.5	26.2	24.4	23.0	21.9	21.0	20.3	19.9
120.0	50.9	41.1	34.7	30.1	26.8	24.2	22.2	20.7	19.4	18.4	17.6	17.0	16.5
126.0	43.9	35.4	29.8	25.9	23.0	20.8	19.0	17.6	16.5	15.6	-	-	-
132.0	38.1	30.8	25.9	22.4	19.9	17.9	16.4	15.2	-	-	-	-	-
138.0	33.3	26.9	22.6	19.6	17.3	15.6	-	-	-	-	-	-	-
144.0	29.3	23.6	19.8	17.2	15.2	-	-	-	-	-	-	-	-

NOTES:

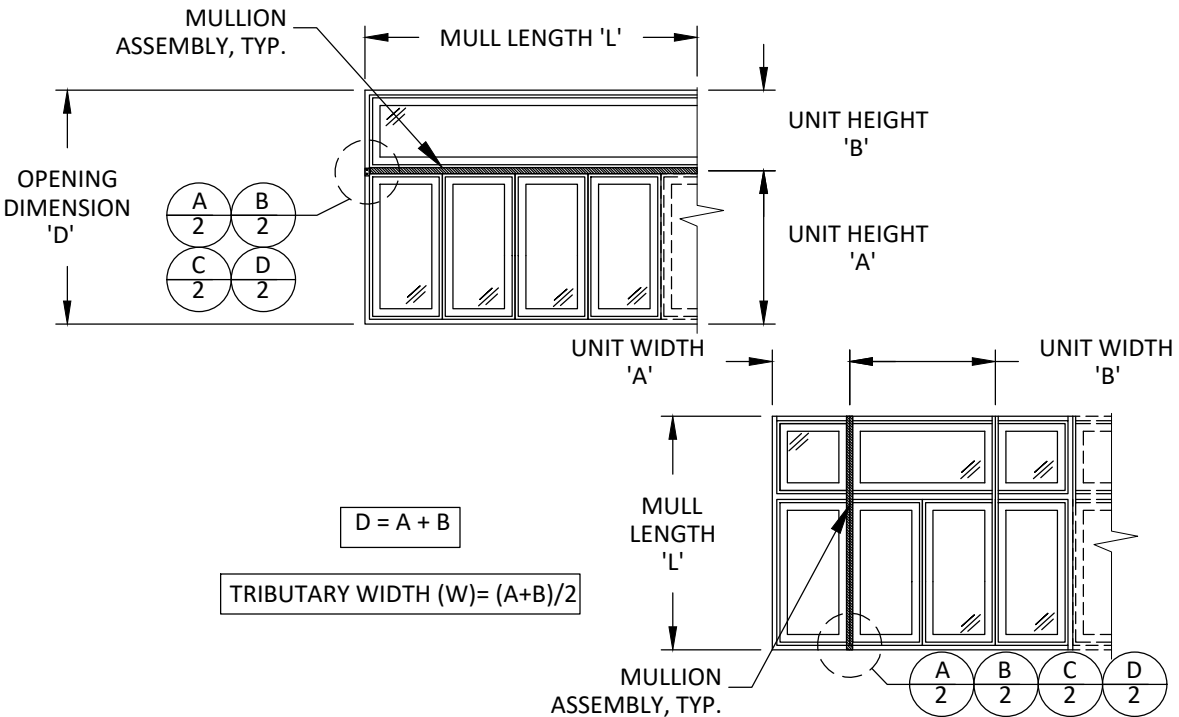
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ARE APPLICABLE FOR INSTALLATION PROCEDURES ON SHEET 3.
- WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
- DESIGN 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.



TWO WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 2" LVL MULLION (3 1/4" FRAME)													
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
36.0	150.0	142.7	118.9	101.9	89.2	79.3	71.3	64.9	59.4	54.9	51.0	47.6	44.6
48.0	133.8	107.0	89.2	76.4	66.9	59.4	53.5	48.6	44.6	41.2	38.2	35.7	33.4
60.0	107.0	85.6	71.3	61.1	53.5	47.6	42.8	38.9	35.7	32.9	30.6	28.5	26.8
72.0	89.2	71.3	59.4	51.0	44.6	39.6	35.7	32.4	29.7	27.4	25.5	23.8	22.3
84.0	76.4	61.1	51.0	43.7	38.2	34.0	30.6	27.8	25.5	23.5	21.8	20.4	19.1
96.0	66.9	53.5	44.6	38.2	33.4	29.7	26.8	24.3	22.3	20.6	19.1	17.8	16.7
108.0	59.4	47.6	39.6	34.0	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.9	-
120.0	50.1	40.1	33.4	28.6	25.1	22.3	20.1	18.2	16.7	15.4	-	-	-
132.0	37.7	30.1	25.1	21.5	18.8	16.7	15.1	-	-	-	-	-	-
144.0	29.0	23.2	19.3	16.6	-	-	-	-	-	-	-	-	-
156.0	22.8	18.3	15.2	-	-	-	-	-	-	-	-	-	-
168.0	18.3	-	-	-	-	-	-	-	-	-	-	-	-
180.0	-	-	-	-	-	-	-	-	-	-	-	-	-
192.0	-	-	-	-	-	-	-	-	-	-	-	-	-
204.0	-	-	-	-	-	-	-	-	-	-	-	-	-
216.0	-	-	-	-	-	-	-	-	-	-	-	-	-
228.0	-	-	-	-	-	-	-	-	-	-	-	-	-
240.0	-	-	-	-	-	-	-	-	-	-	-	-	-

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 ARE APPLICABLE FOR INSTALLATION PROCEDURES ON SHEET 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.



WINDSOR WINDOWS  
& DOORS

900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

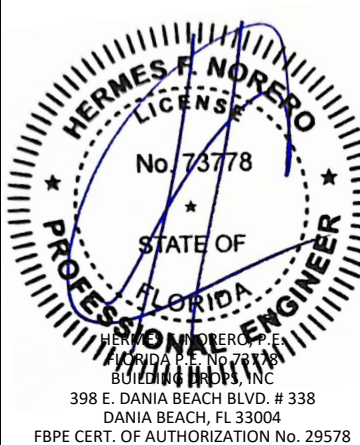
TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
2" LVL MULLION (3 1/4" FRAME)  
(DIRECT SET/DIRECT SET)

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE
8TH FBC CODE CHANGE	MG	02/23

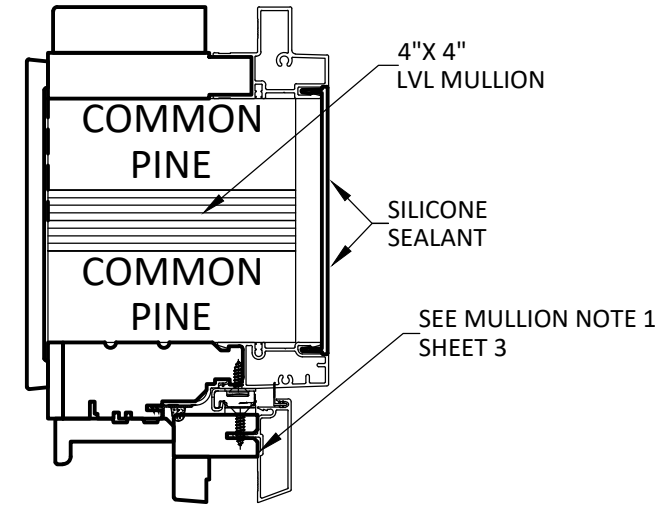
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



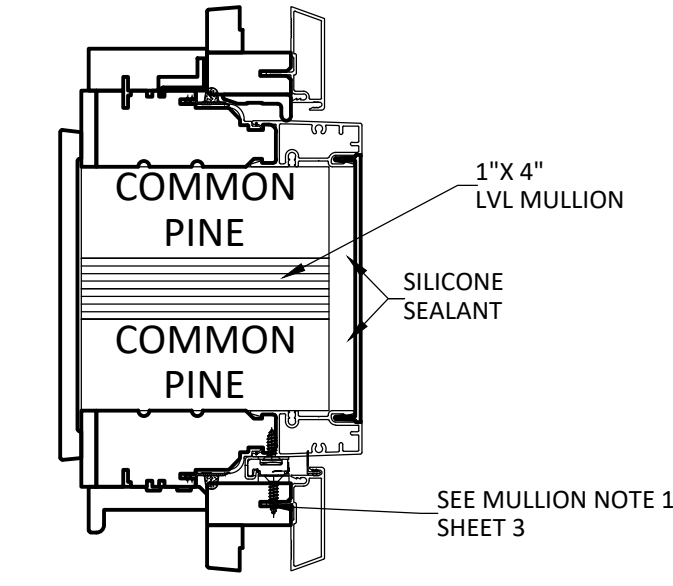
FL #:	FL21905
DATE:	12.14.20
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	WWD053
SHEET:	12

6/5/2023 1:33 PM  
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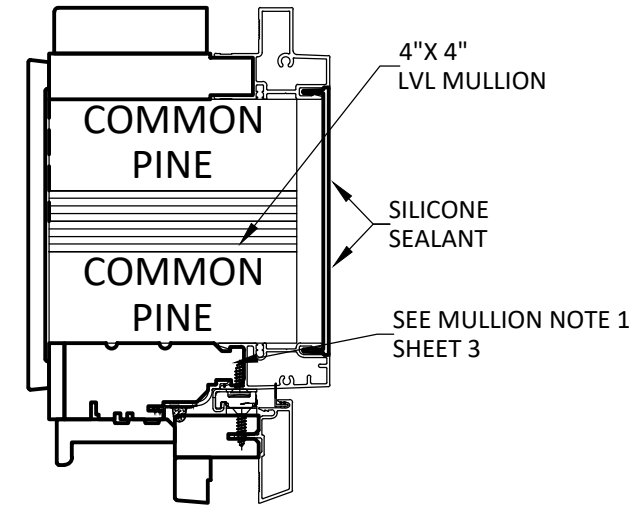
4" LVL MULLION WITH 3 1/4" FRAME



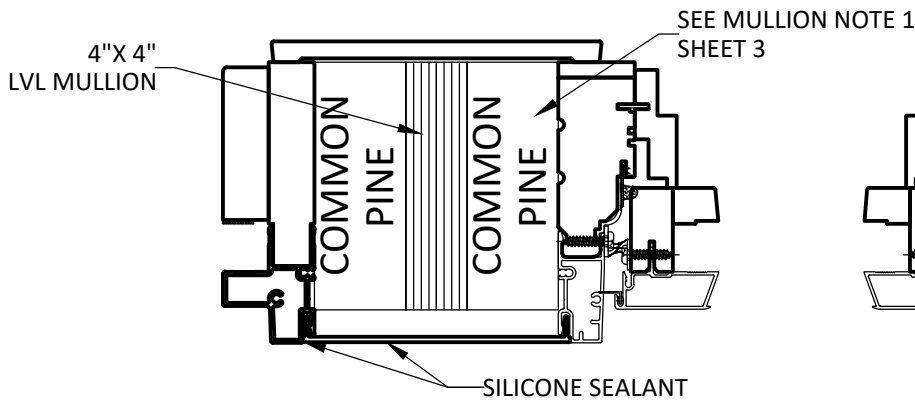
**A**  
**13** CASEMENT/DIRECT SET  
HORIZONTAL MULLION



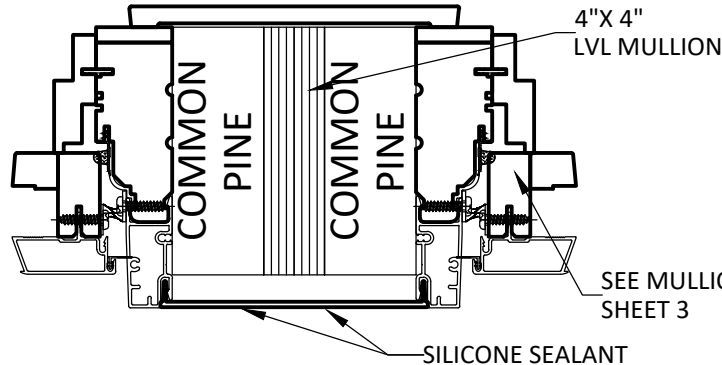
**B**  
**13** CASEMENT/CASEMENT  
HORIZONTAL MULLION



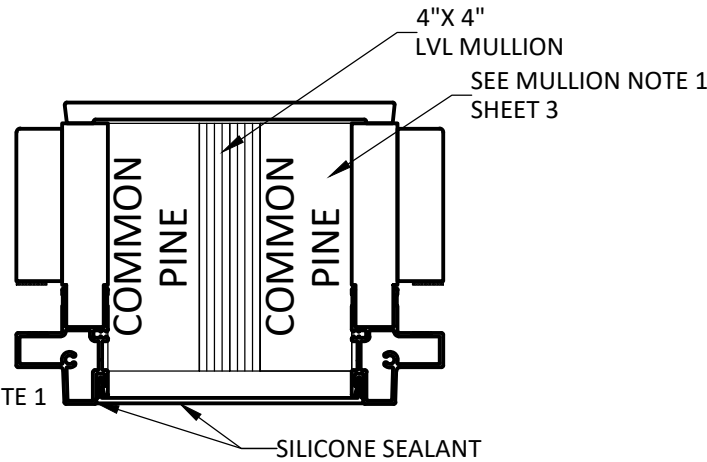
**C**  
**13** DIRECT SET/DIRECT SET  
HORIZONTAL MULLION



**D**  
**13** CASEMENT/DIRECT SET  
VERTICAL MULLION



**E**  
**13** CASEMENT/DIRECT SET  
VERTICAL MULLION



**F**  
**13** DIRECT SET/DIRECT SET  
VERTICAL MULLION

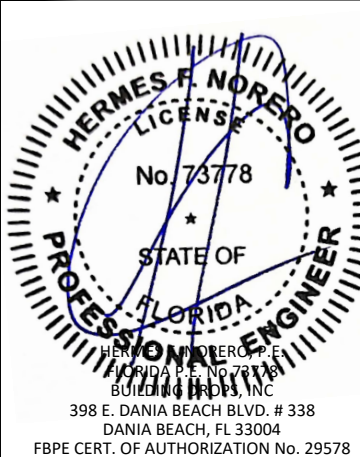


WINDSOR WINDOWS  
& DOORS  
900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)/(NON-IMPACT)  
4" LVL MULLION  
VERTICAL AND HORIZONTAL  
SECTIONS  
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
8TH FBC CODE CHANGE	MG	02/23

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.



FL #:	FL21905
DATE:	12.14.20
DWG. BY:	CHK. BY:
YC	HFN
SCALE:	NTS
DWG. #:	WWD053
SHEET:	13

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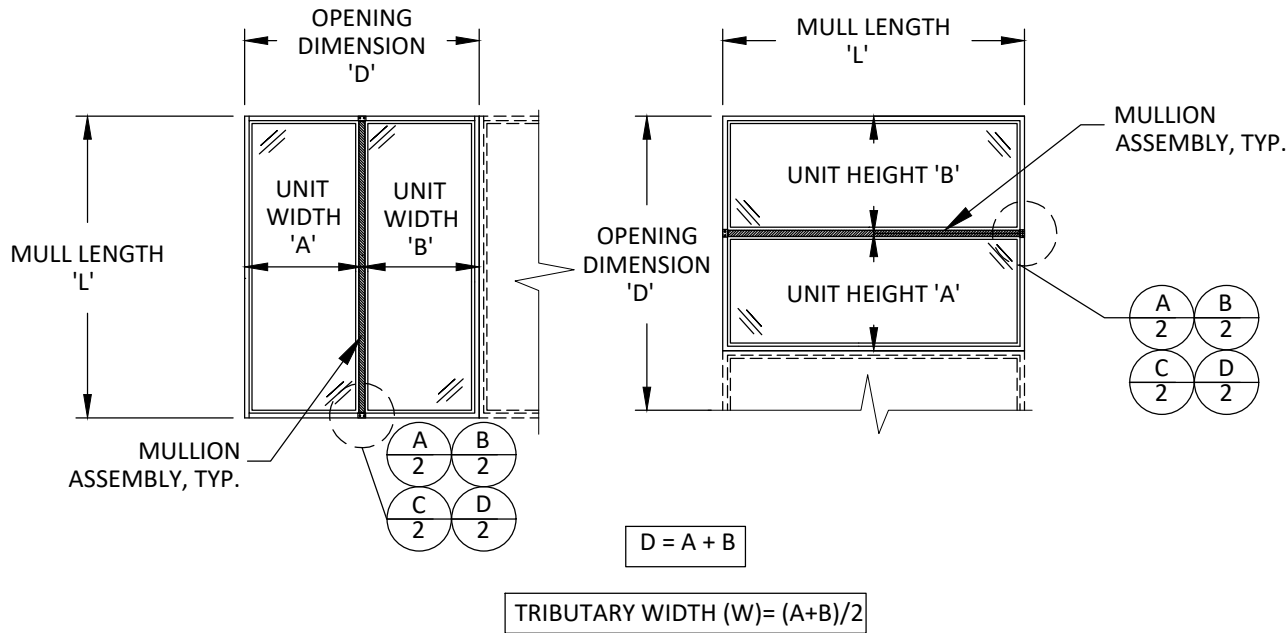
4" LVL MULLION (3 1/4" FRAME)- THROUGH FRAME & STRAP INSTALLATION  
(CASEMENT/CASEMENT)(CASEMENT/DIRECT SET)

ONE WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 4" LVL MULLION (3 1/4" FRAME)														
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)													
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	
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	
48.0	150.0	150.0	142.7	135.9	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	
54.0	150.0	131.7	118.9	111.2	107.0	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	
60.0	133.8	114.1	101.9	94.1	89.2	86.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	
66.0	118.9	100.7	89.2	81.5	76.4	73.2	71.3	70.7	70.7	70.7	70.7	70.7	70.7	
72.0	107.0	90.1	79.3	71.9	66.9	63.4	61.1	59.9	59.4	59.4	59.4	59.4	59.4	
78.0	97.3	81.5	71.3	64.4	59.4	56.0	53.5	51.9	51.0	50.7	50.7	50.7	50.7	
84.0	89.2	74.4	64.9	58.2	53.5	50.1	47.6	45.8	44.6	43.9	43.7	43.7	43.7	
90.0	82.3	68.5	59.4	53.2	48.6	45.3	42.8	41.0	39.6	38.7	38.2	38.0	38.0	
96.0	76.4	63.4	54.9	48.9	44.6	41.4	38.9	37.1	35.7	34.7	34.0	33.6	33.4	
102.0	71.3	59.0	51.0	45.3	41.2	38.0	35.7	33.8	32.4	31.4	30.6	30.0	29.7	
108.0	66.9	55.2	47.6	42.2	38.2	35.2	32.9	31.1	29.7	28.6	27.8	27.2	26.8	
114.0	62.9	51.9	44.6	39.4	35.7	32.8	30.6	28.8	27.4	26.3	25.5	24.8	24.3	
120.0	59.4	48.9	42.0	37.1	33.4	30.7	28.5	26.8	25.5	24.4	23.4	22.5	21.9	
126.0	56.3	46.3	39.6	34.4	30.5	27.6	25.3	23.4	21.9	20.7	19.8	19.0	18.4	
132.0	50.7	40.8	34.4	29.8	26.4	23.8	21.8	20.2	18.8	17.8	16.9	16.2	15.6	
138.0	44.3	35.7	30.0	26.0	23.0	20.7	18.9	17.5	16.3	15.4	-	-	-	
144.0	38.9	31.4	26.3	22.8	20.2	18.1	16.5	15.3	-	-	-	-	-	

TWO WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 4" LVL MULLION (3 1/4" FRAME)														
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)													
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	
36.0	150.0	142.7	118.9	101.9	89.2	79.3	71.3	64.9	59.4	54.9	51.0	47.6	44.6	
48.0	133.8	107.0	89.2	76.4	66.9	59.4	53.5	48.6	44.6	41.2	38.2	35.7	33.4	
60.0	107.0	85.6	71.3	61.1	53.5	47.6	42.8	38.9	35.7	32.9	30.6	28.5	26.8	
72.0	89.2	71.3	59.4	51.0	44.6	39.6	35.7	32.4	29.7	27.4	25.5	23.8	22.3	
84.0	76.4	61.1	51.0	43.7	38.2	34.0	30.6	27.8	25.5	23.5	21.8	20.4	19.1	
96.0	66.9	53.5	44.6	38.2	33.4	29.7	26.8	24.3	22.3	20.6	19.1	17.8	16.7	
108.0	59.4	47.6	39.6	34.0	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.9	-	
120.0	53.5	42.8	35.7	30.6	26.8	23.8	21.4	19.5	17.8	16.5	15.3	-	-	
132.0	48.6	38.9	32.4	27.8	24.3	21.6	19.5	17.7	16.2	-	-	-	-	
144.0	38.5	30.8	25.7	22.0	19.3	17.1	15.4	-	-	-	-	-	-	
156.0	30.3	24.2	20.2	17.3	15.2	-	-	-	-	-	-	-	-	
168.0	24.3	19.4	16.2	-	-	-	-	-	-	-	-	-	-	
180.0	19.7	15.8	-	-	-	-	-	-	-	-	-	-	-	
192.0	16.3	-	-	-	-	-	-	-	-	-	-	-	-	
204.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
216.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
228.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
240.0	-	-	-	-	-	-	-	-	-	-	-	-	-	

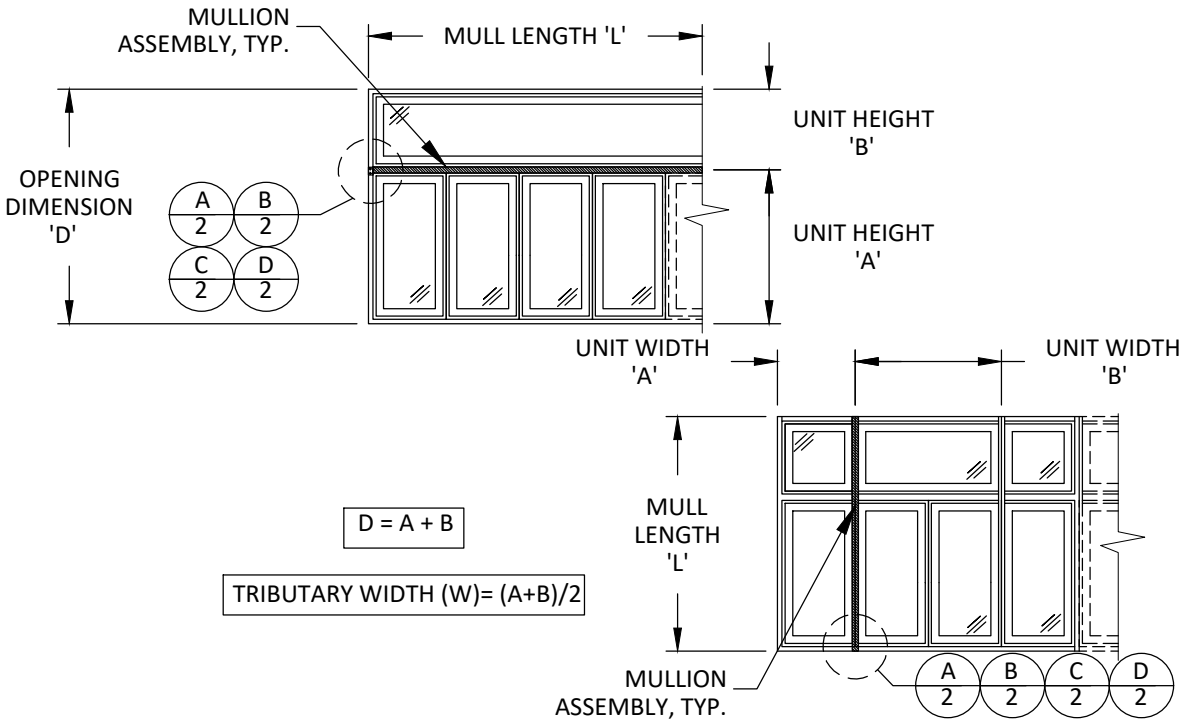
NOTES:

- '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 ARE APPLICABLE FOR INSTALLATION PROCEDURES ON SHEET 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.



NOTES:

- 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
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WINDSOR WINDOWS  
& DOORS

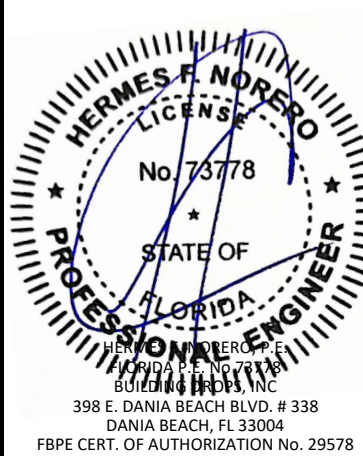
900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
4" LVL MULLION (3 1/4" FRAME)  
(CASEMENT/CASEMENT)  
(DIRECT SET/CASEMENT)

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

REMARKS BY DATE  
8TH FBC CODE CHANGE MG 02/23

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FL #: FL21905  
DATE: 12.14.20  
DWG. BY: YC CHK. BY: HFN  
SCALE: NTS  
DWG. #: WWD053  
SHEET: 14 OF 20



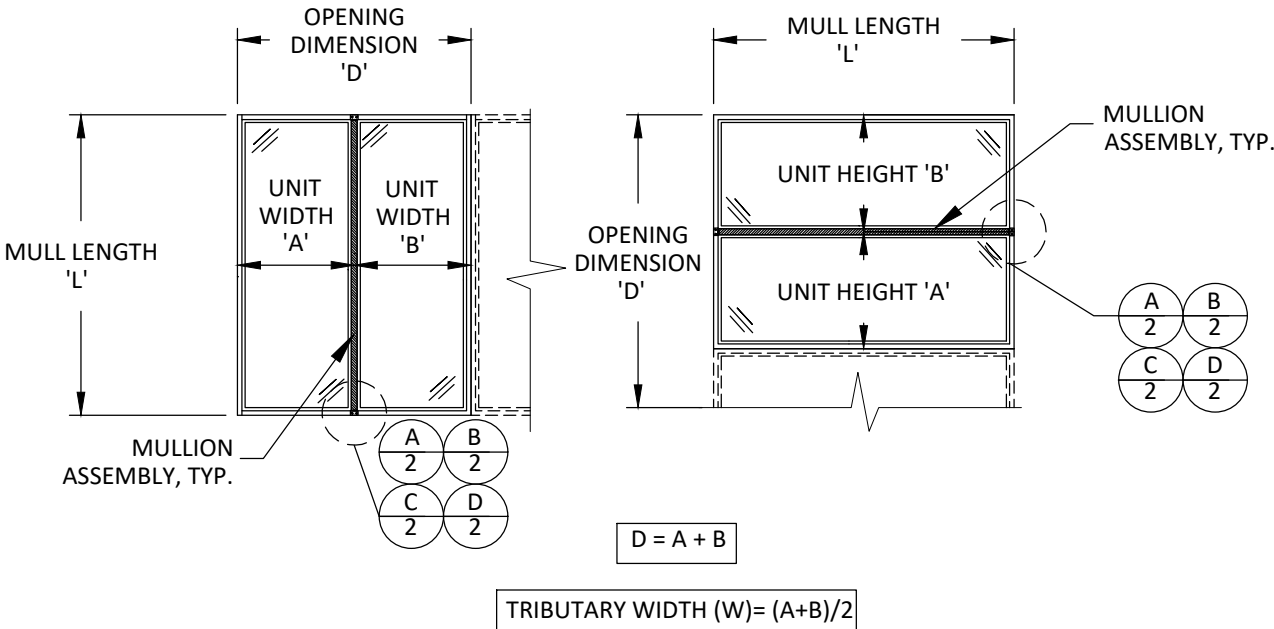
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4" LVL MULLION (3 1/4" FRAME)- THROUGH FRAME & STRAP INSTALLATION  
(DIRECT SET/DIRECT SET)

ONE WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 4" LVL MULLION (3 1/4" FRAME)													
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
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
48.0	150.0	150.0	142.7	135.9	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8
54.0	150.0	131.7	118.9	111.2	107.0	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7
60.0	133.8	114.1	101.9	94.1	89.2	86.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6
66.0	118.9	100.7	89.2	81.5	76.4	73.2	71.3	70.7	70.7	70.7	70.7	70.7	70.7
72.0	107.0	90.1	79.3	71.9	66.9	63.4	61.1	59.9	59.4	59.4	59.4	59.4	59.4
78.0	97.3	81.5	71.3	64.4	59.4	56.0	53.5	51.9	51.0	50.7	50.7	50.7	50.7
84.0	89.2	74.4	64.9	58.2	53.5	50.1	47.6	45.8	44.6	43.9	43.7	43.7	43.7
90.0	82.3	68.5	59.4	53.2	48.6	45.3	42.8	41.0	39.6	38.7	38.2	38.0	38.0
96.0	76.4	63.4	54.9	48.9	44.6	41.4	38.9	37.1	35.7	34.7	34.0	33.6	33.4
102.0	71.3	59.0	51.0	45.3	41.2	38.0	35.7	33.8	32.4	31.4	30.6	30.0	29.7
108.0	66.9	55.2	47.6	42.2	38.2	35.2	32.9	31.1	29.7	28.6	27.8	27.2	26.8
114.0	62.9	51.9	44.6	39.4	35.7	32.8	30.6	28.8	27.4	26.3	25.5	24.8	24.3
120.0	59.4	48.9	42.0	37.1	33.4	30.7	28.5	26.8	25.5	24.4	23.5	22.8	22.3
126.0	56.3	46.3	39.6	34.9	31.5	28.8	26.8	25.1	23.8	22.5	21.5	20.6	20.0
132.0	53.5	43.9	37.3	32.3	28.7	25.8	23.6	21.9	20.5	19.3	18.4	17.6	17.0
138.0	48.1	38.7	32.6	28.2	25.0	22.5	20.5	19.0	17.7	16.7	15.8	15.1	-
144.0	42.3	34.0	28.6	24.7	21.9	19.7	18.0	16.6	15.4	-	-	-	-

NOTES:

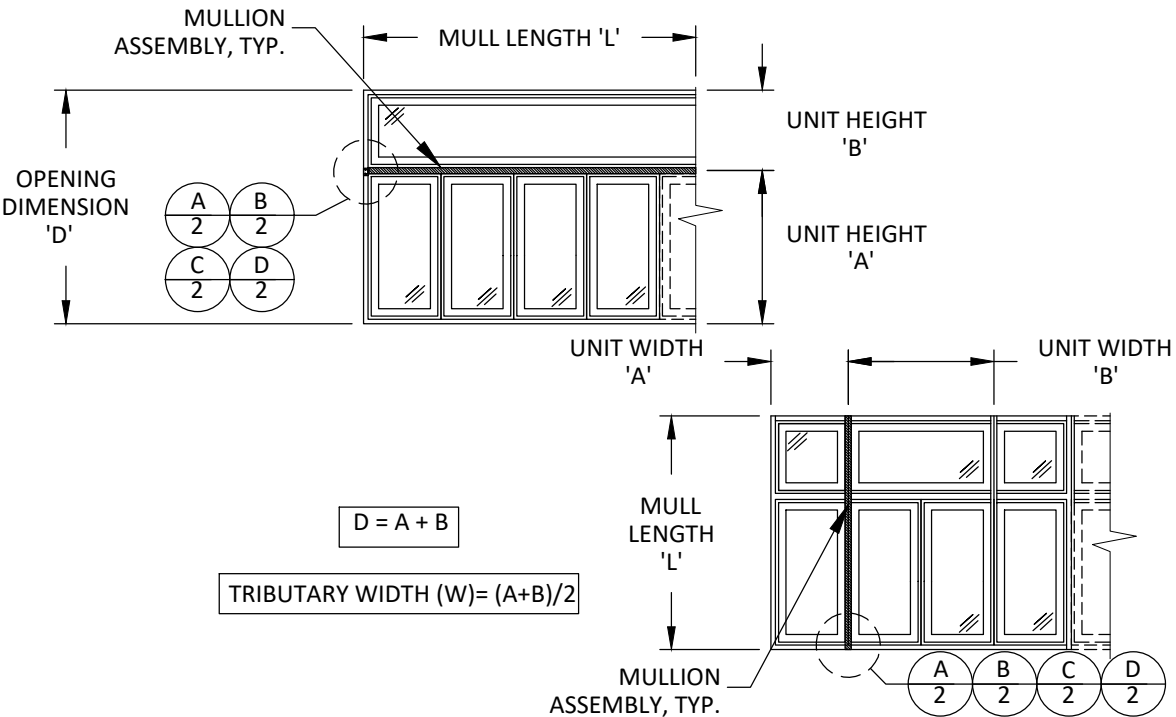
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
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- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW 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.



TWO WAY-MAXIMUM DESIGN PRESSURE CAPACITY(PSF): 4" LVL MULLION (3 1/4" FRAME)													
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
36.0	150.0	142.7	118.9	101.9	89.2	79.3	71.3	64.9	59.4	54.9	51.0	47.6	44.6
48.0	133.8	107.0	89.2	76.4	66.9	59.4	53.5	48.6	44.6	41.2	38.2	35.7	33.4
60.0	107.0	85.6	71.3	61.1	53.5	47.6	42.8	38.9	35.7	32.9	30.6	28.5	26.8
72.0	89.2	71.3	59.4	51.0	44.6	39.6	35.7	32.4	29.7	27.4	25.5	23.8	22.3
84.0	76.4	61.1	51.0	43.7	38.2	34.0	30.6	27.8	25.5	23.5	21.8	20.4	19.1
96.0	66.9	53.5	44.6	38.2	33.4	29.7	26.8	24.3	22.3	20.6	19.1	17.8	16.7
108.0	59.4	47.6	39.6	34.0	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.9	-
120.0	53.5	42.8	35.7	30.6	26.8	23.8	21.4	19.5	17.8	16.5	15.3	-	-
132.0	48.6	38.9	32.4	27.8	24.3	21.6	19.5	17.7	16.2	-	-	-	-
144.0	41.8	33.5	27.9	23.9	20.9	18.6	16.7	15.2	-	-	-	-	-
156.0	32.9	26.3	21.9	18.8	16.4	-	-	-	-	-	-	-	-
168.0	26.3	21.1	17.6	15.1	-	-	-	-	-	-	-	-	-
180.0	21.4	17.1	-	-	-	-	-	-	-	-	-	-	-
192.0	17.6	-	-	-	-	-	-	-	-	-	-	-	-
204.0	-	-	-	-	-	-	-	-	-	-	-	-	-
216.0	-	-	-	-	-	-	-	-	-	-	-	-	-
228.0	-	-	-	-	-	-	-	-	-	-	-	-	-
240.0	-	-	-	-	-	-	-	-	-	-	-	-	-

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 ARE APPLICABLE FOR INSTALLATION PROCEDURES ON SHEET 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.



WINDSOR WINDOWS  
& DOORS

900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

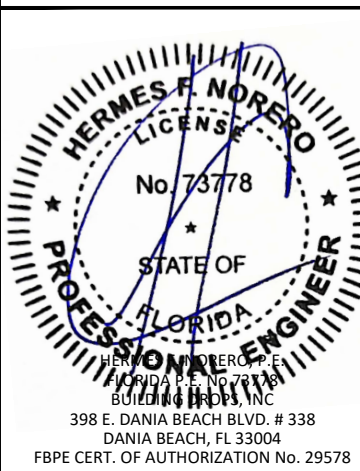
TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
4" LVL MULLION (3 1/4" FRAME)  
(DIRECT SET/DIRECT SET)

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE
8TH FBC CODE CHANGE	MG	02/23

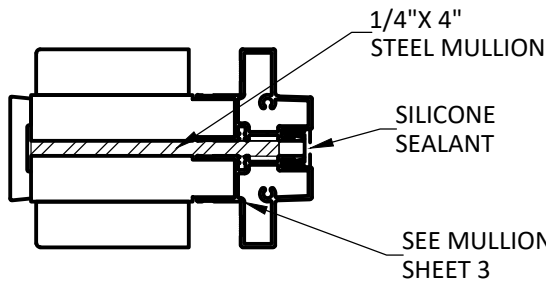
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



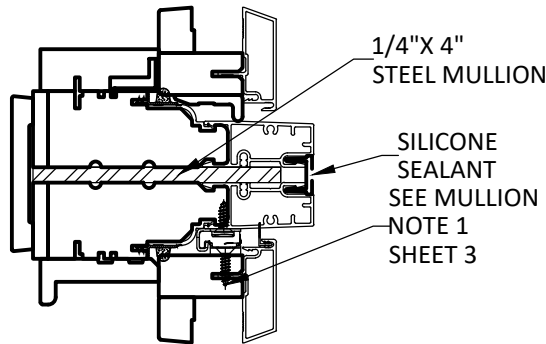
FL #:	FL21905
DATE:	12.14.20
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	WWD053
SHEET:	15

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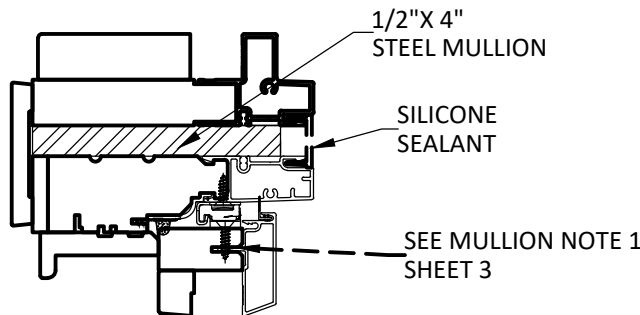
STEEL MULLION WITH 3 1/4" FRAME



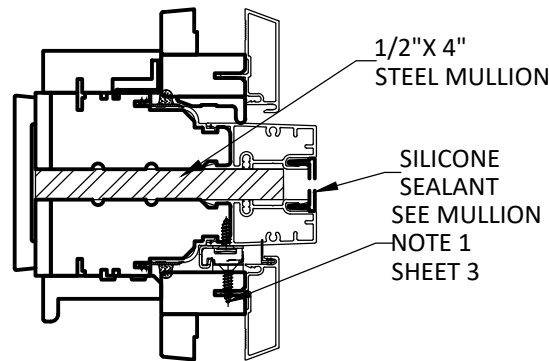
**A**  
**14** DIRECT SET/DIRECT SET  
HORIZONTAL MULLION  
1/4" STEEL MULLION



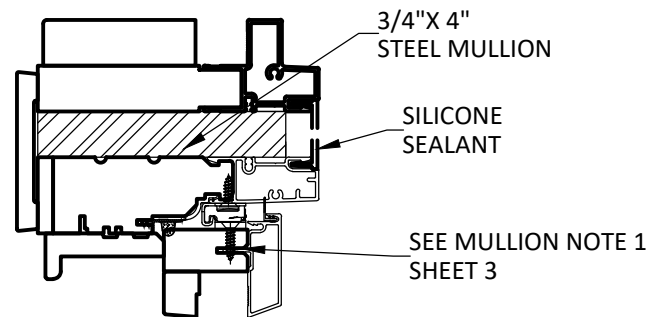
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HORIZONTAL MULLION  
1/4" STEEL MULLION



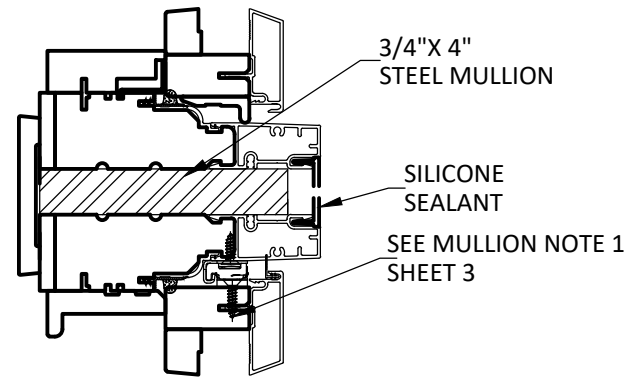
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HORIZONTAL MULLION  
1/2" STEEL MULLION



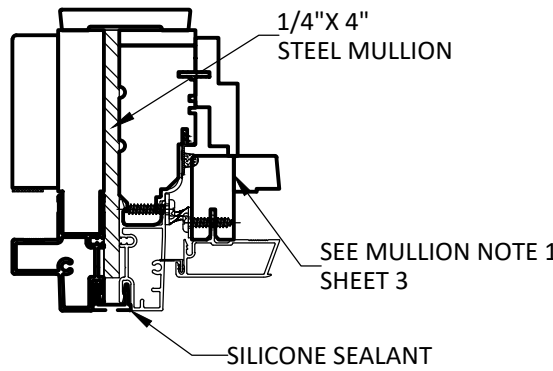
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HORIZONTAL MULLION  
1/2" STEEL MULLION



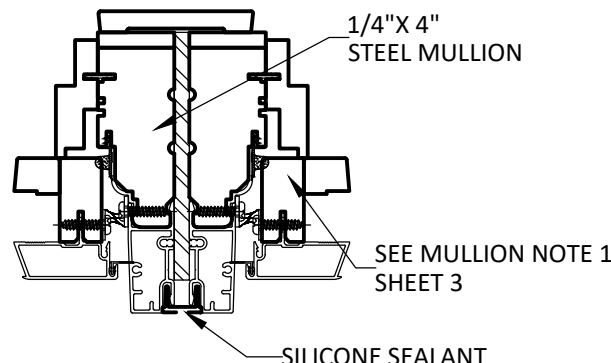
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3/4" STEEL MULLION



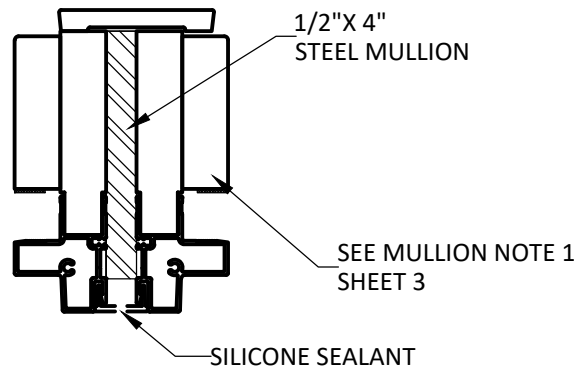
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HORIZONTAL MULLION  
3/4" STEEL MULLION



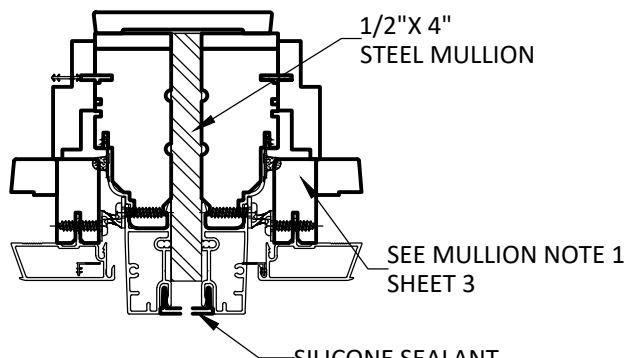
**G**  
**14** CASEMENT/DIRECT SET  
VERTICAL MULLION  
1/4" STEEL MULLION



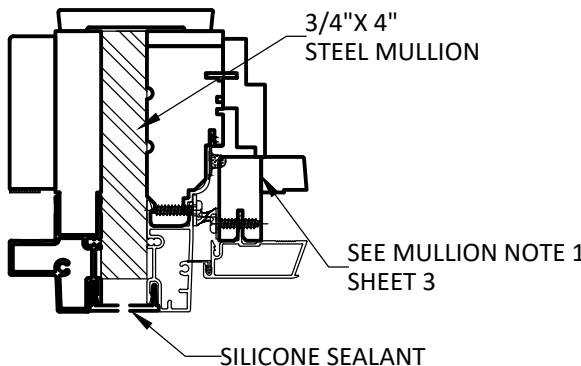
**H**  
**14** CASEMENT/CASEMENT  
VERTICAL MULLION  
1/4" STEEL MULLION



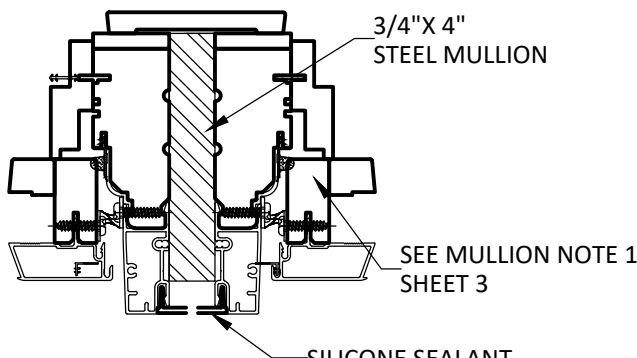
**I**  
**14** DIRECT SET/DIRECT SET  
VERTICAL MULLION  
1/2" STEEL MULLION



**J**  
**14** CASEMENT/CASEMENT  
VERTICAL MULLION  
1/2" STEEL MULLION



**K**  
**14** CASEMENT/DIRECT SET  
VERTICAL MULLION  
3/4" STEEL MULLION



**L**  
**14** CASEMENT/CASEMENT  
VERTICAL MULLION  
3/4" STEEL 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 MULLIONED TO MULLION SHALL BE UNDER SEPARATE FL APPROVAL.
2. MULLION SHOWN HEREIN MAY BE USED WITH APPROVED WINDOW OR DOOR PRODUCTS WHICH ARE COMPATIBLE WITH MULLION (E.G. WINDSOR WINDOWS PINNACLE CLAD SERIES 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.
4. TWO ANCHORS CLUSTERED TO EACH SIDE OF MULLION, SPACED 3" & 6" AWAY FROM MULLION AT BOTH ENDS.



WINDSOR WINDOWS  
& DOORS

900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

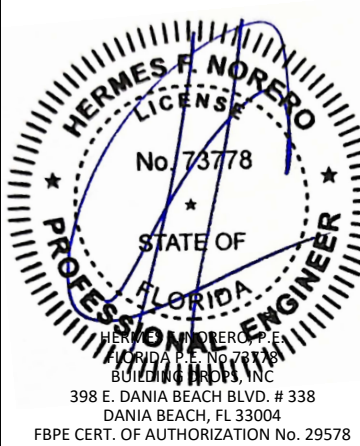
TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)/(NON-IMPACT)  
STEEL MULLION  
VERTICAL AND HORIZONTAL  
SECTIONS

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

**BD**  
BUILDING DROPS

REMARKS	BY	DATE
8TH FBC CODE CHANGE	MG	02/23

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FL #:

**FL21905**

DATE: **12.14.20**

DWG. BY: <b>YC</b>	CHK. BY: <b>HFN</b>
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SCALE: **NTS**

DWG. #: **WWD053**

SHEET:

**16**

OF 20

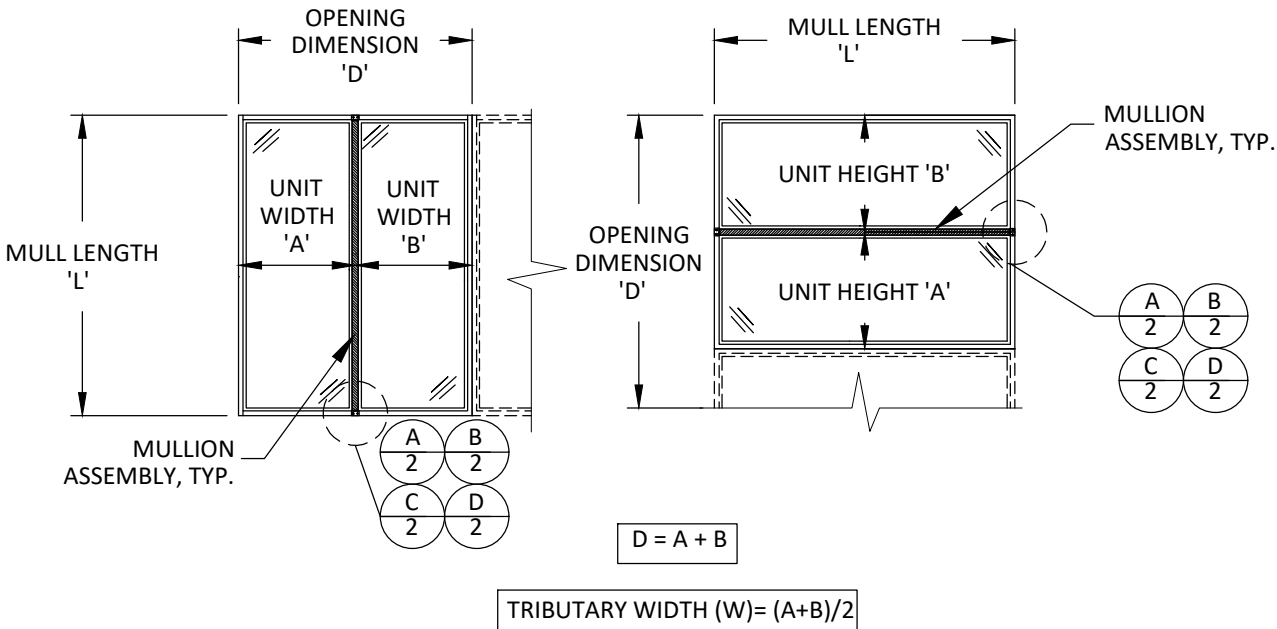
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1/4" STEEL MULLION (3 1/4" FRAME)- THROUGH FRAME & STRAP INSTALLATION  
(CASEMENT/CASEMENT)(CASEMENT/DIRECT SET)(DIRECT SET/DIRECT SET)

ONE WAY-MAXIMUM DESIGN PRESSURE CAPACITY (PSF): 1/4" STEEL MULLION (3 1/4" FRAME)													
L-MULLION LENGTH (IN)	W- TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
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
48.0	150.0	150.0	142.7	135.9	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8
60.0	133.8	114.1	101.9	94.1	89.2	86.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6
72.0	107.0	90.1	79.3	71.9	66.9	63.4	61.1	59.9	59.4	59.4	59.4	59.4	59.4
84.0	89.2	74.4	64.9	58.2	53.5	50.1	47.6	45.8	44.6	43.9	43.7	43.7	43.7
96.0	76.4	63.4	54.9	48.9	44.6	41.4	38.9	37.1	35.7	34.7	34.0	33.6	33.4
108.0	66.9	55.2	47.6	42.2	38.2	35.2	32.9	31.1	29.7	28.6	27.8	27.2	26.8
120.0	59.4	48.9	42.0	37.1	33.4	30.7	28.5	26.8	25.5	24.4	23.5	22.8	22.3
132.0	53.5	43.9	37.2	32.3	28.6	25.8	23.6	21.8	20.4	19.3	18.3	17.6	16.9
144.0	42.2	34.0	28.5	24.7	21.8	19.6	17.9	16.5	15.4	-	-	-	-
156.0	33.1	26.6	22.4	19.3	17.1	15.3	-	-	-	-	-	-	-
168.0	26.5	21.3	17.8	15.4	-	-	-	-	-	-	-	-	-
180.0	21.5	17.3	-	-	-	-	-	-	-	-	-	-	-
192.0	17.7	-	-	-	-	-	-	-	-	-	-	-	-
204.0	-	-	-	-	-	-	-	-	-	-	-	-	-
216.0	-	-	-	-	-	-	-	-	-	-	-	-	-
228.0	-	-	-	-	-	-	-	-	-	-	-	-	-
240.0	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

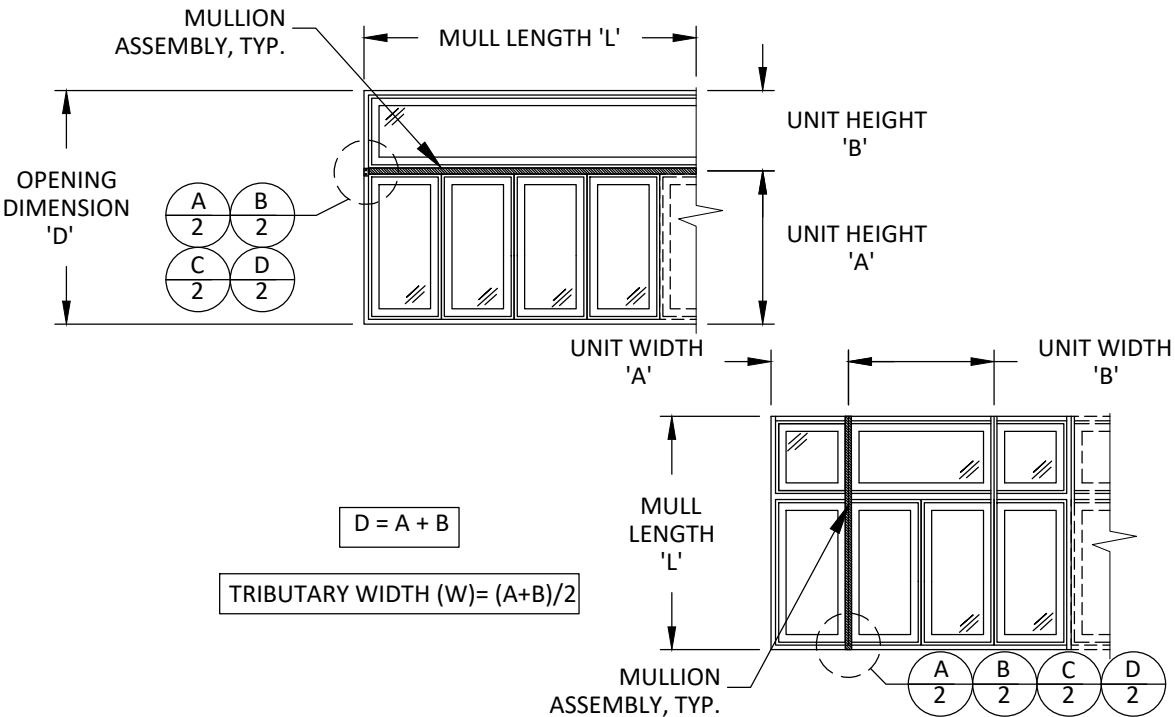
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ARE APPLICABLE FOR INSTALLATION PROCEDURES ON SHEET 3.
- WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW OR DOOR UNIT UNDER SEPARATE APPROVAL.
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TWO WAY-MAXIMUM DESIGN PRESSURE CAPACITY (PSF): 1/4" STEEL MULLION (3 1/4" FRAME)													
L-MULLION LENGTH (IN)	W- TRIBUTARY WIDTH (IN)												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
36.0	150.0	142.7	118.9	101.9	89.2	79.3	71.3	64.9	59.4	54.9	51.0	47.6	44.6
48.0	133.8	107.0	89.2	76.4	66.9	59.4	53.5	48.6	44.6	41.2	38.2	35.7	33.4
60.0	107.0	85.6	71.3	61.1	53.5	47.6	42.8	38.9	35.7	32.9	30.6	28.5	26.8
72.0	89.2	71.3	59.4	51.0	44.6	39.6	35.7	32.4	29.7	27.4	25.5	23.8	22.3
84.0	76.4	61.1	51.0	43.7	38.2	34.0	30.6	27.8	25.5	23.5	21.8	20.4	19.1
96.0	66.9	53.5	44.6	38.2	33.4	29.7	26.8	24.3	22.3	20.6	19.1	17.8	16.7
108.0	59.4	47.6	39.6	34.0	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.9	-
120.0	53.5	42.8	35.7	30.6	26.8	23.8	21.4	19.5	17.8	16.5	15.3	-	-
132.0	48.6	38.9	32.4	27.8	24.3	21.6	19.5	17.7	16.2	-	-	-	-
144.0	41.7	33.4	27.8	23.8	20.9	18.5	16.7	15.2	-	-	-	-	-
156.0	32.8	26.3	21.9	18.8	16.4	-	-	-	-	-	-	-	-
168.0	26.3	21.0	17.5	15.0	-	-	-	-	-	-	-	-	-
180.0	21.4	17.1	-	-	-	-	-	-	-	-	-	-	-
192.0	17.6	-	-	-	-	-	-	-	-	-	-	-	-
204.0	-	-	-	-	-	-	-	-	-	-	-	-	-
216.0	-	-	-	-	-	-	-	-	-	-	-	-	-
228.0	-	-	-	-	-	-	-	-	-	-	-	-	-
240.0	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

- 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
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- 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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WINDSOR WINDOWS  
& DOORS

900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

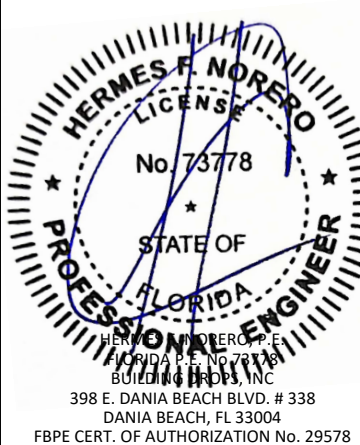
TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
1/4" STEEL MULLION (3 1/4" FRAME)  
(CASEMENT/CASEMENT)  
(DIRECT SET/CASEMENT)  
(DIRECT SET/DIRECT SET)

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
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REMARKS	BY	DATE
8TH FBC CODE CHANGE	MG	02/23

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FL #:	FL21905
DATE:	12.14.20
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	WWD053
SHEET:	17

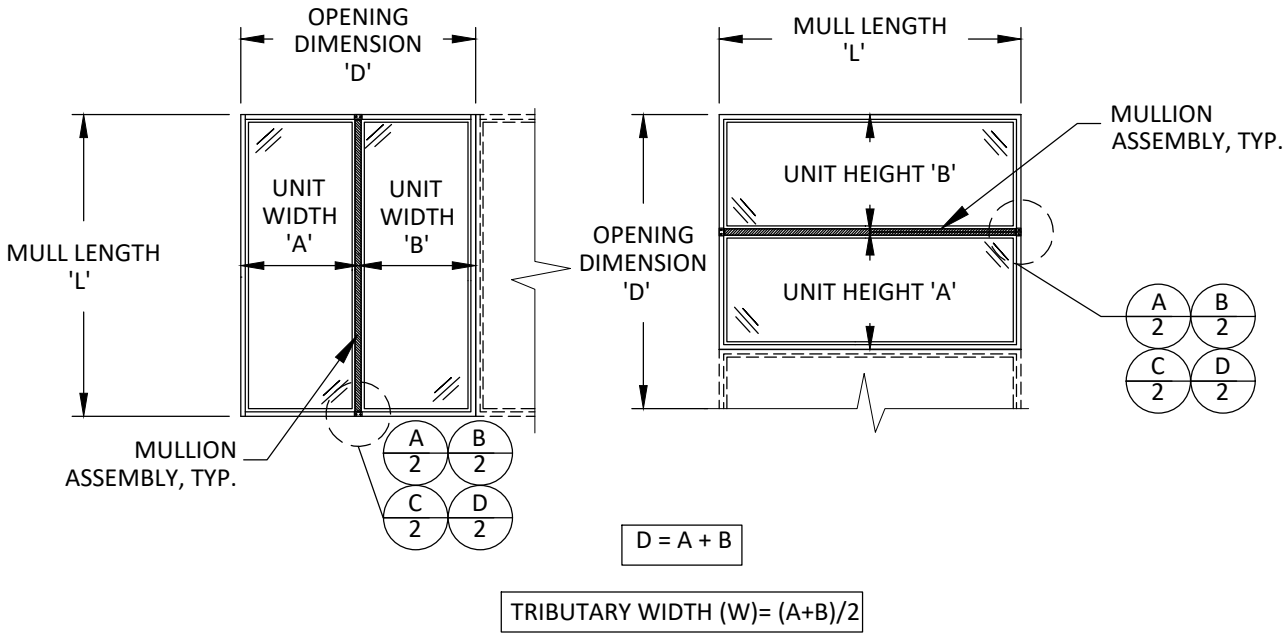


1/2" STEEL MULLION (3 1/4" FRAME)- THROUGH FRAME & STRAP INSTALLATION  
(CASEMENT/CASEMENT)(CASEMENT/DIRECT SET)(DIRECT SET/DIRECT SET)

ONE WAY-MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF) 1/2" STEEL MULLION (3 1/4" FRAME)														
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)													
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	
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	
48.0	150.0	150.0	142.7	135.9	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	
60.0	133.8	114.1	101.9	94.1	89.2	86.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	
72.0	107.0	90.1	79.3	71.9	66.9	63.4	61.1	59.9	59.4	59.4	59.4	59.4	59.4	
84.0	89.2	74.4	64.9	58.2	53.5	50.1	47.6	45.8	44.6	43.9	43.7	43.7	43.7	
96.0	76.4	63.4	54.9	48.9	44.6	41.4	38.9	37.1	35.7	34.7	34.0	33.6	33.4	
108.0	66.9	55.2	47.6	42.2	38.2	35.2	32.9	31.1	29.7	28.6	27.8	27.2	26.8	
120.0	59.4	48.9	42.0	37.1	33.4	30.7	28.5	26.8	25.5	24.4	23.5	22.8	22.3	
132.0	53.5	43.9	37.5	33.1	29.7	27.2	25.2	23.6	22.3	21.2	20.4	19.7	19.1	
144.0	48.6	39.8	34.0	29.8	26.8	24.4	22.5	21.0	19.8	18.8	18.0	17.3	16.7	
156.0	44.6	36.4	31.0	27.2	24.3	22.1	20.4	19.0	17.8	16.9	16.1	15.4	-	
168.0	41.2	33.6	28.5	25.0	22.3	20.2	18.6	17.3	16.2	15.3	-	-	-	
180.0	38.2	31.1	26.4	23.1	20.4	18.3	16.6	15.2	-	-	-	-	-	
192.0	32.8	26.4	22.1	19.0	16.8	-	-	-	-	-	-	-	-	
204.0	27.4	22.0	18.4	15.8	-	-	-	-	-	-	-	-	-	
216.0	23.0	18.5	15.5	-	-	-	-	-	-	-	-	-	-	
228.0	19.6	15.7	-	-	-	-	-	-	-	-	-	-	-	
240.0	16.8	-	-	-	-	-	-	-	-	-	-	-	-	

NOTES:

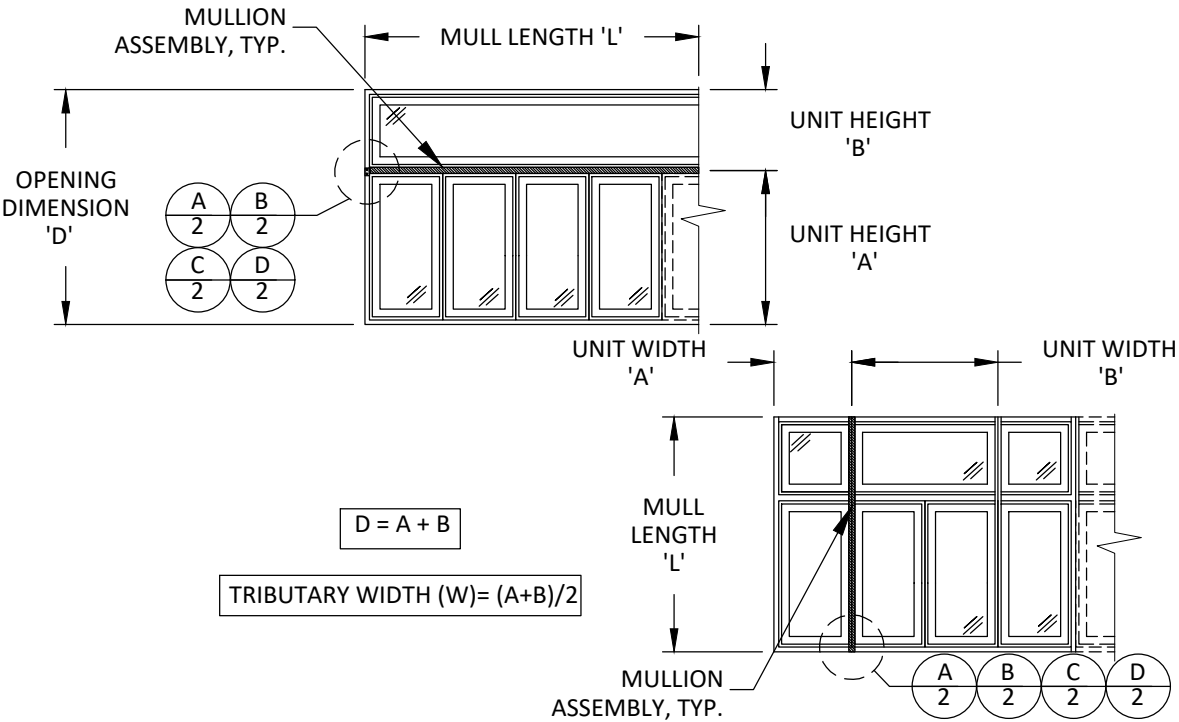
1. 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
2. THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ARE APPLICABLE FOR INSTALLATION PROCEDURES ON SHEET 3.
3. WINDOW OR DOORS SHALL BE UNDER SEPARATE APPROVAL.
4. DESIGN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



TWO WAY-MAXIMUM DESIGN PRESSURE CAPACITY (PSF) 1/2" STEEL MULLION (3 1/4" FRAME)														
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)													
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	
36.0	150.0	142.7	118.9	101.9	89.2	79.3	71.3	64.9	59.4	54.9	51.0	47.6	44.6	
48.0	133.8	107.0	89.2	76.4	66.9	59.4	53.5	48.6	44.6	41.2	38.2	35.7	33.4	
60.0	107.0	85.6	71.3	61.1	53.5	47.6	42.8	38.9	35.7	32.9	30.6	28.5	26.8	
72.0	89.2	71.3	59.4	51.0	44.6	39.6	35.7	32.4	29.7	27.4	25.5	23.8	22.3	
84.0	76.4	61.1	51.0	43.7	38.2	34.0	30.6	27.8	25.5	23.5	21.8	20.4	19.1	
96.0	66.9	53.5	44.6	38.2	33.4	29.7	26.8	24.3	22.3	20.6	19.1	17.8	16.7	
108.0	59.4	47.6	39.6	34.0	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.9	-	
120.0	53.5	42.8	35.7	30.6	26.8	23.8	21.4	19.5	17.8	16.5	15.3	-	-	
132.0	48.6	38.9	32.4	27.8	24.3	21.6	19.5	17.7	16.2	-	-	-	-	
144.0	44.6	35.7	29.7	25.5	22.3	19.8	17.8	16.2	-	-	-	-	-	
156.0	41.2	32.9	27.4	23.5	20.6	18.3	16.5	-	-	-	-	-	-	
168.0	38.2	30.6	25.5	21.8	19.1	17.0	15.3	-	-	-	-	-	-	
180.0	35.7	28.5	23.8	20.4	17.8	15.9	-	-	-	-	-	-	-	
192.0	32.7	26.1	21.8	18.7	16.3	-	-	-	-	-	-	-	-	
204.0	27.2	21.8	18.2	15.6	-	-	-	-	-	-	-	-	-	
216.0	22.9	18.4	15.3	-	-	-	-	-	-	-	-	-	-	
228.0	19.5	15.6	-	-	-	-	-	-	-	-	-	-	-	
240.0	16.7	-	-	-	-	-	-	-	-	-	-	-	-	

NOTES:

1. 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
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5. MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW OR DOOR UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.



WINDSOR WINDOWS  
& DOORS

900 S. 19TH STREET.  
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PH: (515)223-6660 FAX: (515)224-1938

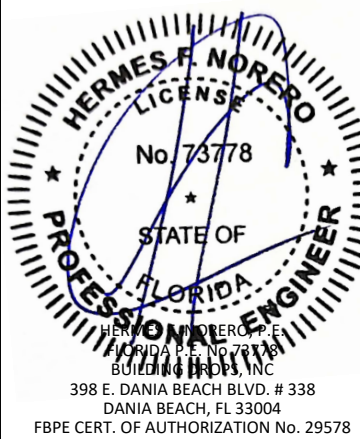
TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
1/2" STEEL MULLION (3 1/4" FRAME)  
(CASEMENT/CASEMENT)  
(DIRECT SET/CASEMENT)  
(DIRECT SET/DIRECT SET)

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE
8TH FBC CODE CHANGE	MG	02/23

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FL #:	FL21905
DATE:	12.14.20
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	WWD053
SHEET:	18

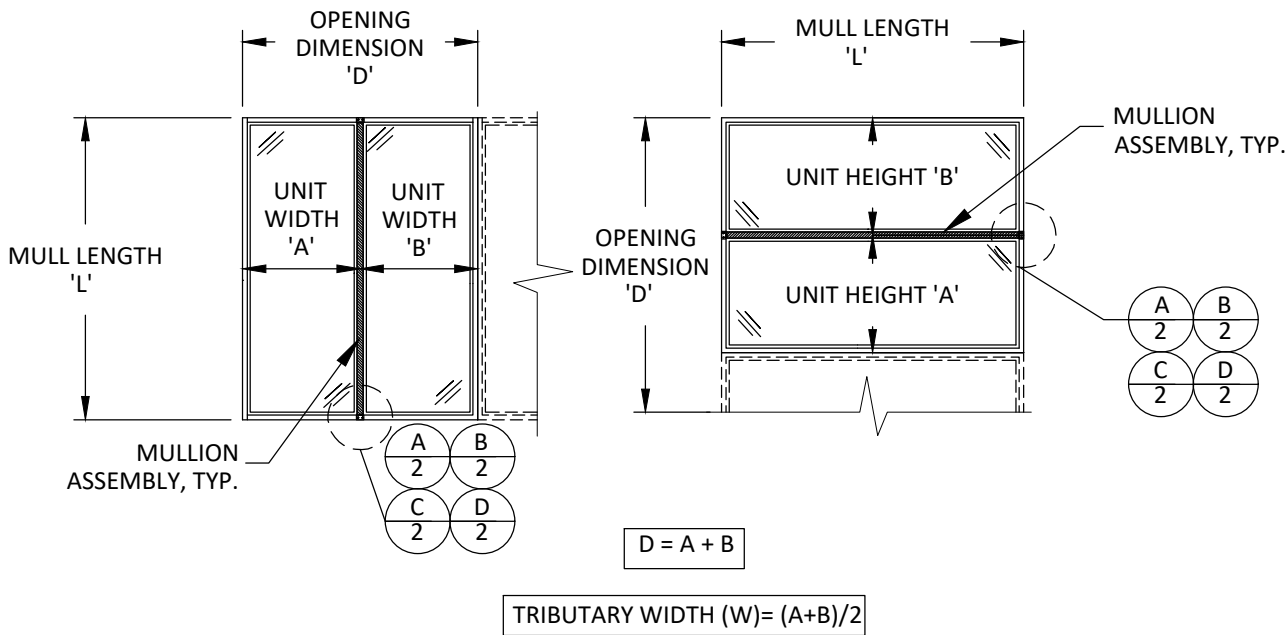
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3/4" STEEL MULLION (3 1/4" FRAME)- THROUGH FRAME & STRAP INSTALLATION  
(CASEMENT/CASEMENT)(CASEMENT/DIRECT SET)(DIRECT SET/DIRECT SET)

ONE WAY-MAXIMUM DESIGN PRESSURE CAPACITY (PSF) 3/4" STEEL MULLION (3 1/4" FRAME)														
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)													
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	
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	
48.0	150.0	150.0	142.7	135.9	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	
60.0	133.8	114.1	101.9	94.1	89.2	86.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	
72.0	107.0	90.1	79.3	71.9	66.9	63.4	61.1	59.9	59.4	59.4	59.4	59.4	59.4	
84.0	89.2	74.4	64.9	58.2	53.5	50.1	47.6	45.8	44.6	43.9	43.7	43.7	43.7	
96.0	76.4	63.4	54.9	48.9	44.6	41.4	38.9	37.1	35.7	34.7	34.0	33.6	33.4	
108.0	66.9	55.2	47.6	42.2	38.2	35.2	32.9	31.1	29.7	28.6	27.8	27.2	26.8	
120.0	59.4	48.9	42.0	37.1	33.4	30.7	28.5	26.8	25.5	24.4	23.5	22.8	22.3	
132.0	53.5	43.9	37.5	33.1	29.7	27.2	25.2	23.6	22.3	21.2	20.4	19.7	19.1	
144.0	48.6	39.8	34.0	29.8	26.8	24.4	22.5	21.0	19.8	18.8	18.0	17.3	16.7	
156.0	44.6	36.4	31.0	27.2	24.3	22.1	20.4	19.0	17.8	16.9	16.1	15.4	-	
168.0	41.2	33.6	28.5	25.0	22.3	20.2	18.6	17.3	16.2	15.3	-	-	-	
180.0	38.2	31.1	26.4	23.1	20.6	18.7	17.1	15.9	-	-	-	-	-	
192.0	35.7	29.0	24.6	21.5	19.1	17.3	15.9	-	-	-	-	-	-	
204.0	33.4	27.2	23.0	20.0	17.8	16.1	-	-	-	-	-	-	-	
216.0	31.5	25.6	21.6	18.8	16.7	15.1	-	-	-	-	-	-	-	
228.0	28.6	23.0	19.2	16.5	-	-	-	-	-	-	-	-	-	
240.0	24.5	19.7	16.4	-	-	-	-	-	-	-	-	-	-	

NOTES:

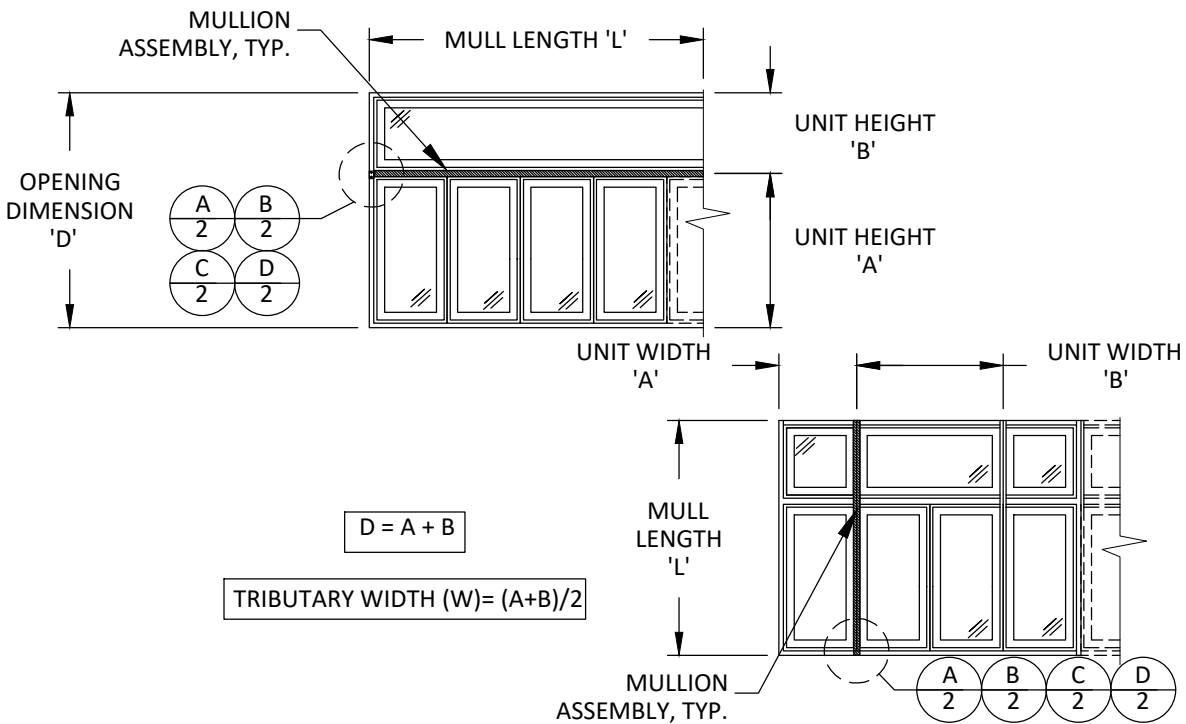
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL SINGLE SPAN OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
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TWO WAY-MAXIMUM DESIGN PRESSURE CAPACITY (PSF) 3/4" STEEL MULLION (3 1/4" FRAME)														
L-MULLION LENGTH (IN)	W - TRIBUTARY WIDTH (IN)													
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	
36.0	150.0	142.7	118.9	101.9	89.2	79.3	71.3	64.9	59.4	54.9	51.0	47.6	44.6	
48.0	133.8	107.0	89.2	76.4	66.9	59.4	53.5	48.6	44.6	41.2	38.2	35.7	33.4	
60.0	107.0	85.6	71.3	61.1	53.5	47.6	42.8	38.9	35.7	32.9	30.6	28.5	26.8	
72.0	89.2	71.3	59.4	51.0	44.6	39.6	35.7	32.4	29.7	27.4	25.5	23.8	22.3	
84.0	76.4	61.1	51.0	43.7	38.2	34.0	30.6	27.8	25.5	23.5	21.8	20.4	19.1	
96.0	66.9	53.5	44.6	38.2	33.4	29.7	26.8	24.3	22.3	20.6	19.1	17.8	16.7	
108.0	59.4	47.6	39.6	34.0	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.9	-	
120.0	53.5	42.8	35.7	30.6	26.8	23.8	21.4	19.5	17.8	16.5	15.3	-	-	
132.0	48.6	38.9	32.4	27.8	24.3	21.6	19.5	17.7	16.2	-	-	-	-	
144.0	44.6	35.7	29.7	25.5	22.3	19.8	17.8	16.2	-	-	-	-	-	
156.0	41.2	32.9	27.4	23.5	20.6	18.3	16.5	-	-	-	-	-	-	
168.0	38.2	30.6	25.5	21.8	19.1	17.0	15.3	-	-	-	-	-	-	
180.0	35.7	28.5	23.8	20.4	17.8	15.9	-	-	-	-	-	-	-	
192.0	33.4	26.8	22.3	19.1	16.7	-	-	-	-	-	-	-	-	
204.0	31.5	25.2	21.0	18.0	15.7	-	-	-	-	-	-	-	-	
216.0	29.7	23.8	19.8	17.0	-	-	-	-	-	-	-	-	-	
228.0	28.2	22.5	18.8	16.1	-	-	-	-	-	-	-	-	-	
240.0	24.5	19.6	16.3	-	-	-	-	-	-	-	-	-	-	

NOTES:

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WINDSOR WINDOWS  
& DOORS

900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

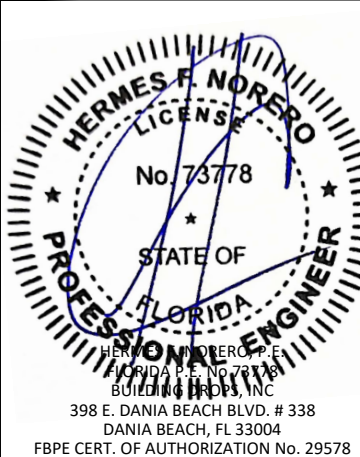
TITLE: PINNACLE CLAD MULLIONS  
(NON-HVHZ)(NON-IMPACT)  
3/4" STEEL MULLION (3 1/4" FRAME)  
(CASEMENT/CASEMENT)  
(DIRECT SET/CASEMENT)  
(DIRECT SET/DIRECT SET)

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)395-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



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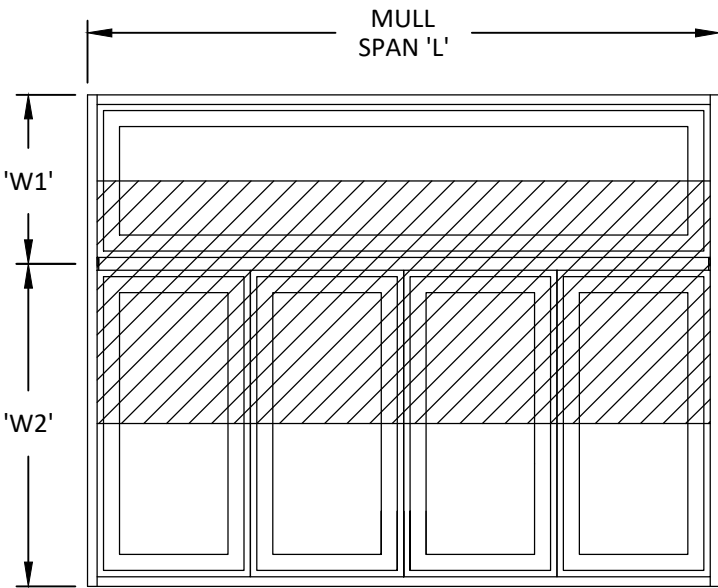
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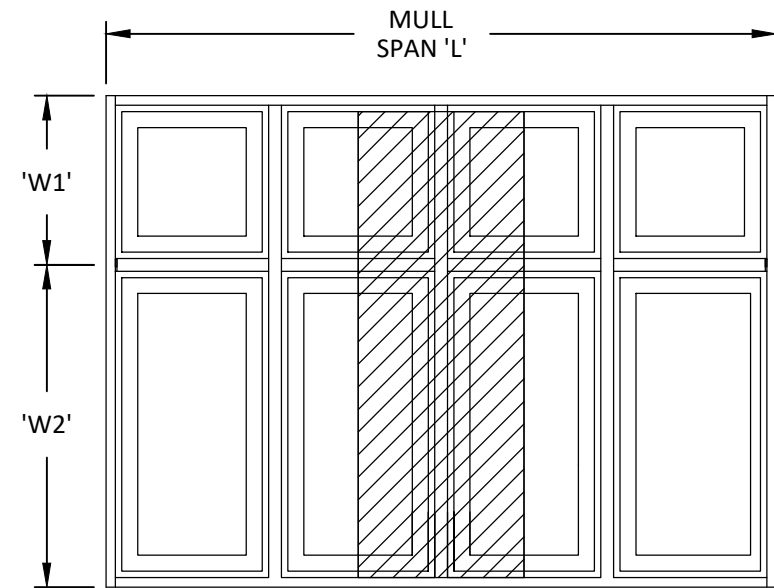
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DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	WWD053
SHEET:	19

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EXAMPLES OF TWO-WAY MULLION ASSEMBLIES



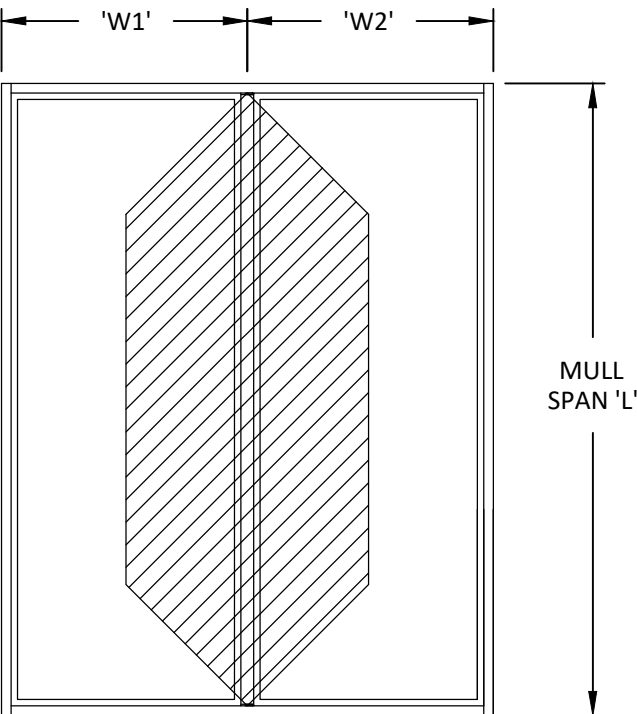
HORIZONTAL MULLION  
TRANSOM OVER MULTIPLE UNITS



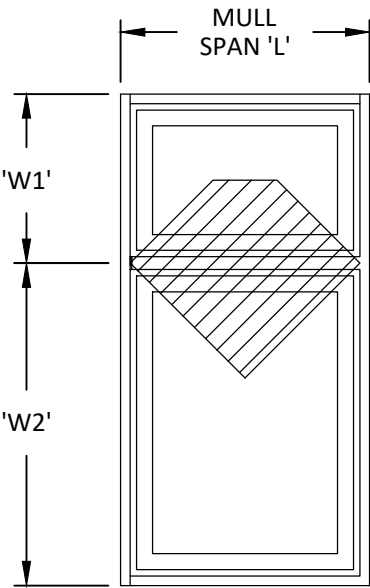
VERTICAL MULLION  
TRANSOM OVER MULTIPLE UNITS

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

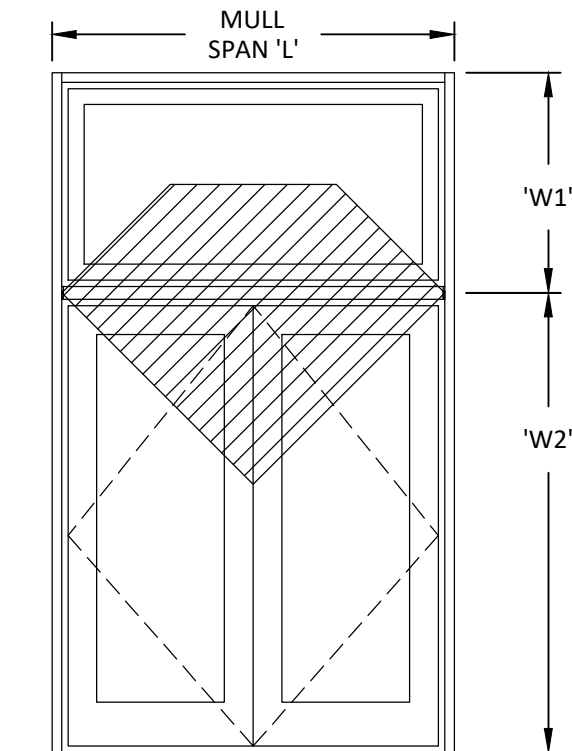
EXAMPLES OF ONE-WAY MULLION ASSEMBLIES



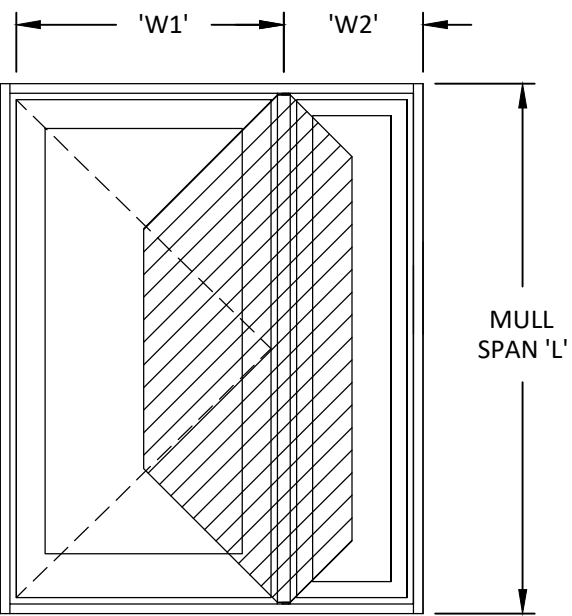
VERTICAL MULLION



HORIZONTAL MULLION



HORIZONTAL MULLION



VERTICAL MULLION  
PIVOT DOOR W/ SIDELITE



WINDSOR WINDOWS  
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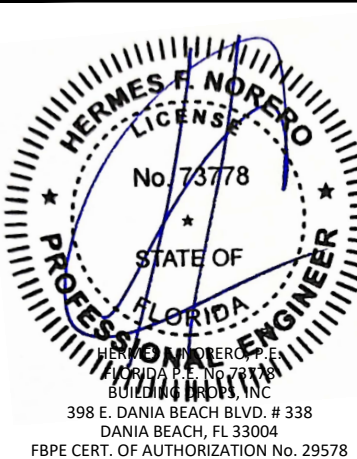
TITLE: PINNACLE CLAD MULLIONS  
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SHEET:	20