

# WINDSOR WINDOWS & DOORS

## PINNACLE CLAD 1" LVL MULLION

### (WZ3)(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. CMU - STRENGTH CONFORMANCE TO ASTM C90.

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

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) AND INTERNATIONAL BUILDING CODE (IBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

AAMA/WDMA/CSA 101/I.S.2/A440-08/11

AAMA 506-16

ASTM E1886-13

ASTM E1996-14
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 NOT REQUIRED** FOR THIS PRODUCT IN **ZONE 3 OR LESS**.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** FOR THIS PRODUCT IN **WIND ZONE 4**.
7. MULLION MATERIAL: GLULAM LVL.

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7	1-WAY DESIGN PRESSURE TABLES - STRAP INSTALLATION
8	2-WAY DESIGN PRESSURE TABLES - STRAP INSTALLATION



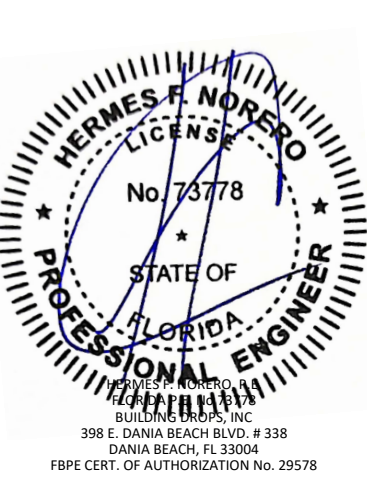
WINDSOR WINDOWS & DOORS

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

TITLE:  
PINNACLE CLAD 1" LVL MULLION  
(WZ3)(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
FBC 2017 UPDATE	LS	06/17
FBC 2020 UPDATE	LL	11/20
FBC 2023 UPDATE	MG	02/23
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FL21905

DATE: 02.10.17

DWG. BY:  
LA

CHK. BY:  
SM

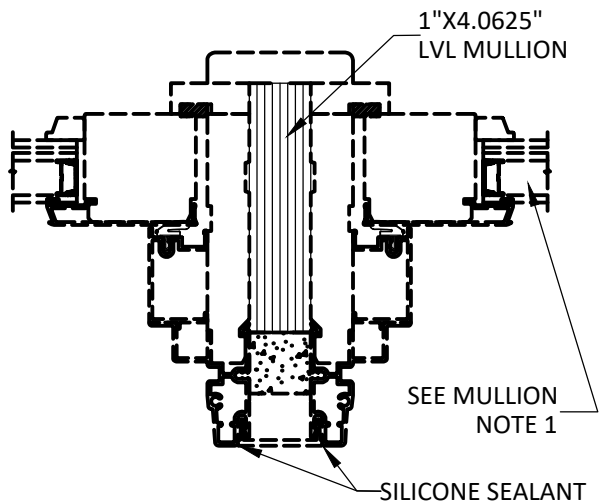
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DWG. #: WWD001

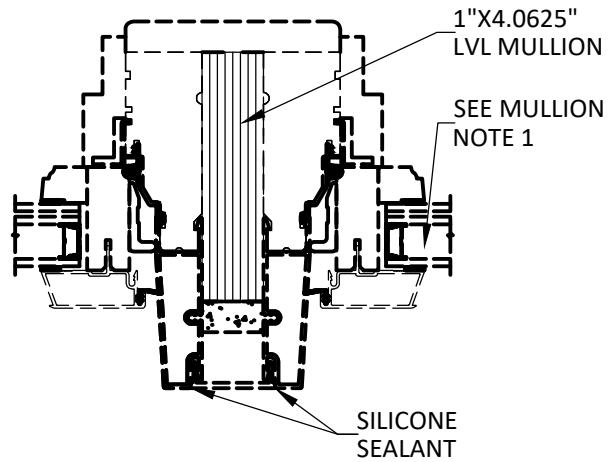
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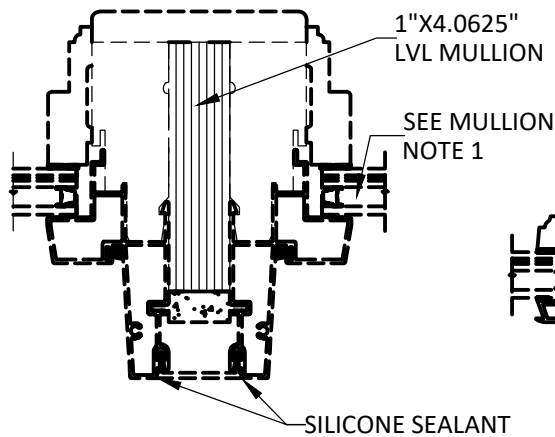
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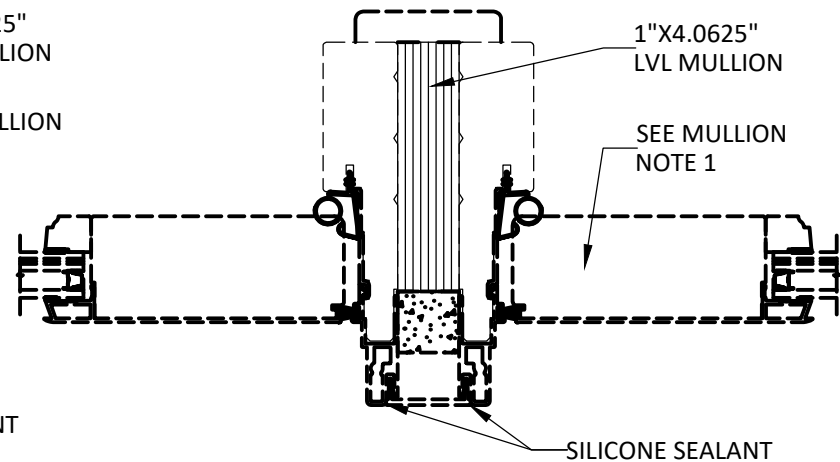
**A**  
**2** **DUAL DOUBLE HUNG PIC.**  
VERTICAL MULLION



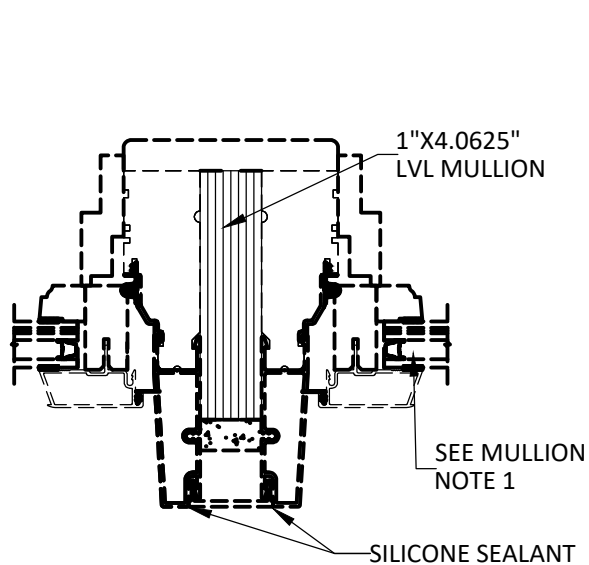
**B**  
**2** **DUAL CASEMENT PICTURE**  
VERTICAL MULLION



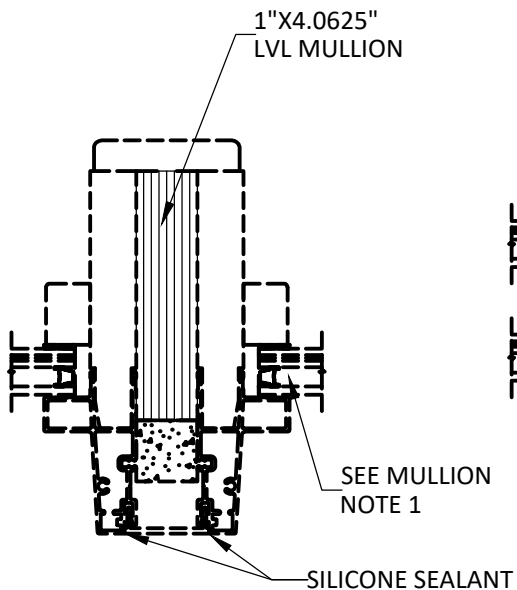
**C**  
**2** **DUAL DIRECT SET**  
VERTICAL MULLION



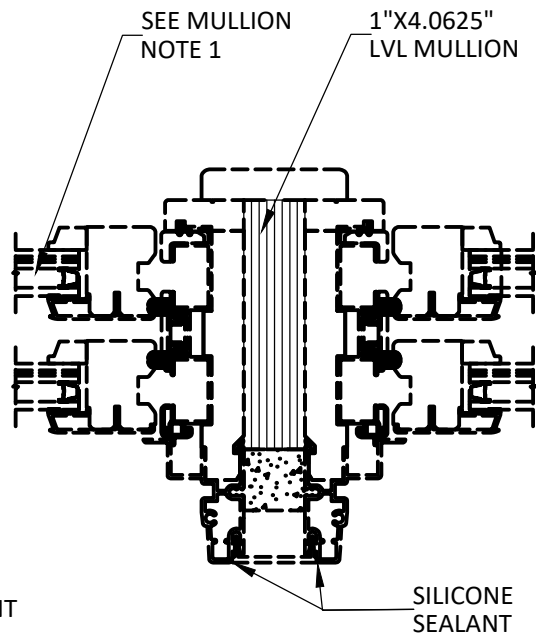
**D**  
**2** **DUAL OUTSWING PATIO**  
VERTICAL MULLION



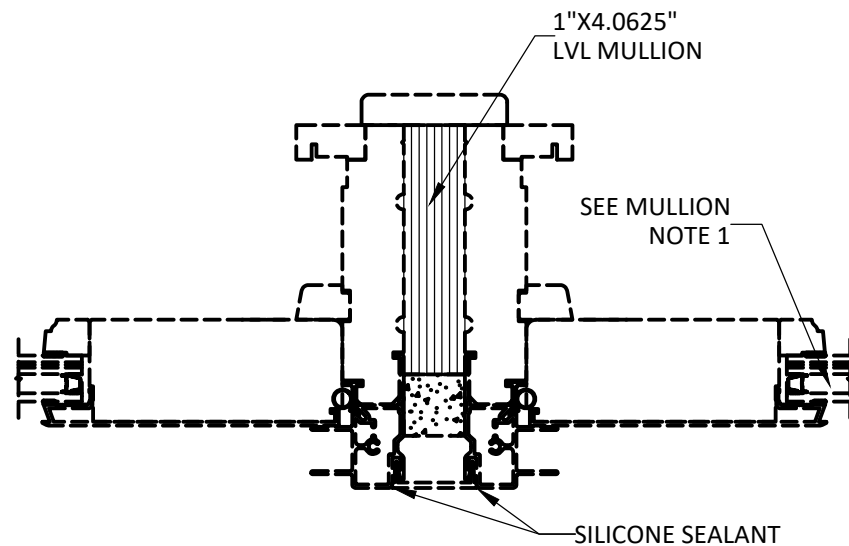
**E**  
**2** **DUAL CASEMENT OP.**  
VERTICAL MULLION



**F**  
**2** **DUAL RADIUS**  
VERTICAL MULLION



**G**  
**2** **DUAL DOUBLE HUNG OP.**  
VERTICAL MULLION



**H**  
**2** **DUAL SLIDING PATIO**  
VERTICAL 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" LVL MULLION SHALL BE UNDER SEPARATE FL APPROVAL.
2. MULLION SHOWN HEREIN MAY BE USED WITH APPROVED WINDOW OR DOOR PRODUCTS WHICH ARE COMPATIBLE WITH 1" LVL 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.

TITLE: PINNACLE CLAD 1" LVL MULLION  
(WZ3)(IMPACT)  
VERTICAL MULLION  
ASSEMBLIES

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398 E. DANIA BEACH BLVD., STE. 338  
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DWG. BY: **LA** CHK. BY: **SM**

SCALE: **NTS**

DWG. #: **WWD001**

SHEET:

TITLE:  
PINNACLE CLAD 1" LVL MULLION  
(WZ3)(IMPACT)  
HORIZONTAL MULLION  
ASSEMBLIES

PREPARED BY:

**BUILDING DROPS, INC.**

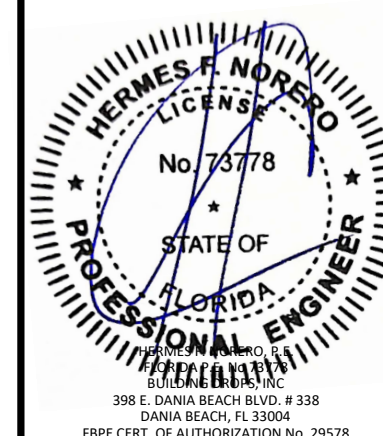
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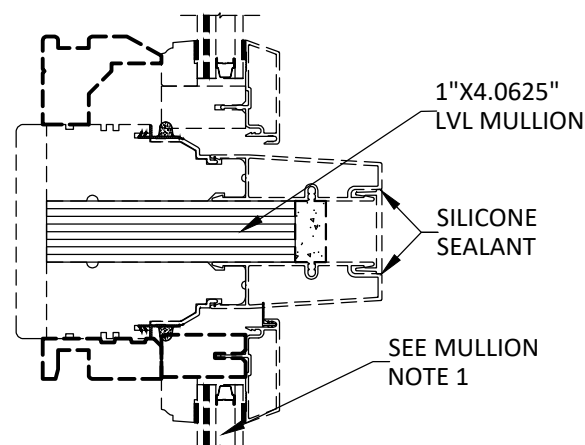
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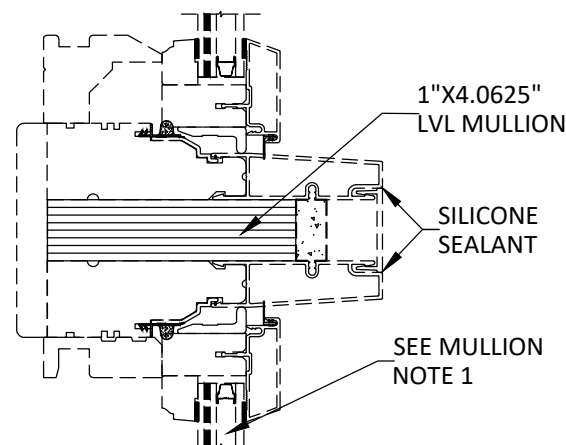
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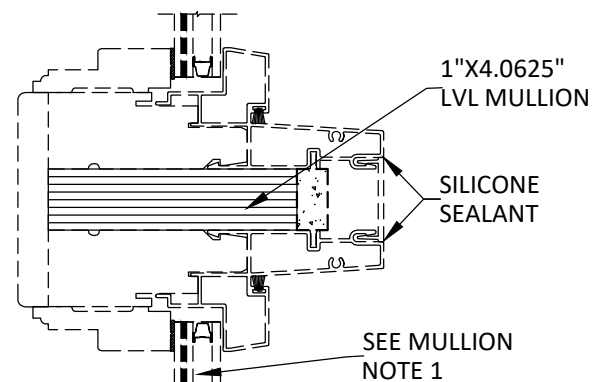
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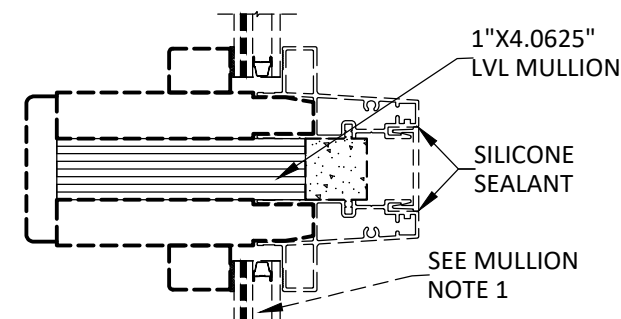
**I 3**  
**DUAL CASEMENT OP**  
HORIZONTAL MULLION



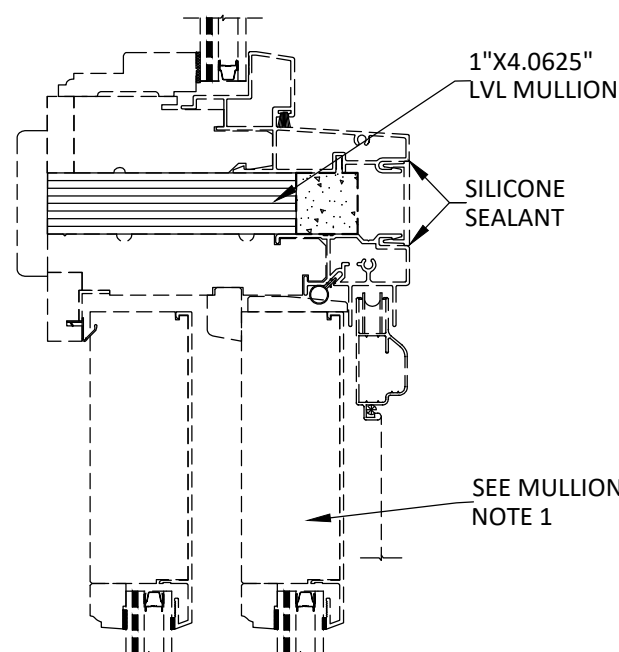
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**DUAL CASEMENT PIC**  
HORIZONTAL MULLION



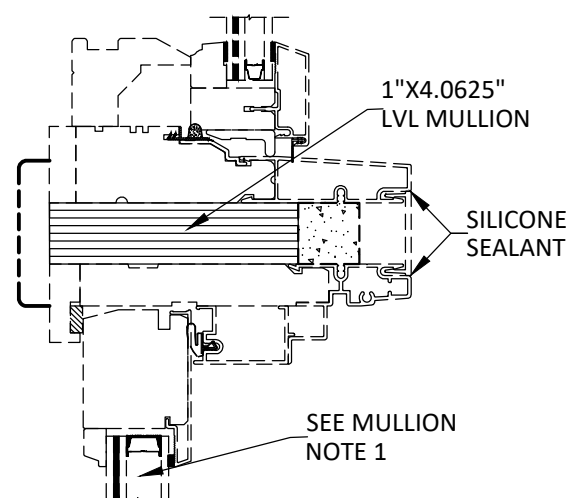
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**DUAL DIRECT SET**  
HORIZONTAL MULLION



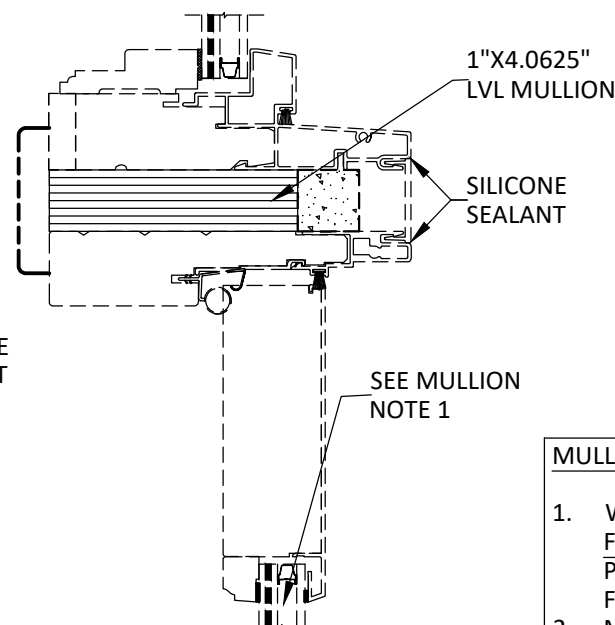
**L 3**  
**DUAL RADIUS**  
HORIZONTAL MULLION



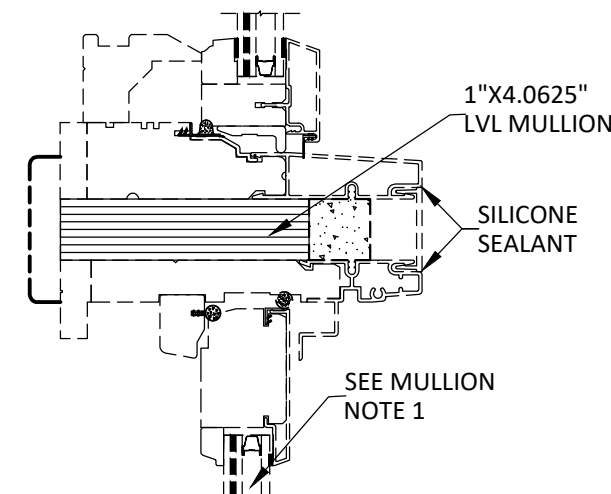
**M 3**  
**SLIDING - DIRECT SET**  
HORIZONTAL MULLION



**N 3**  
**DH PIC - CASEMENT OP**  
HORIZONTAL MULLION



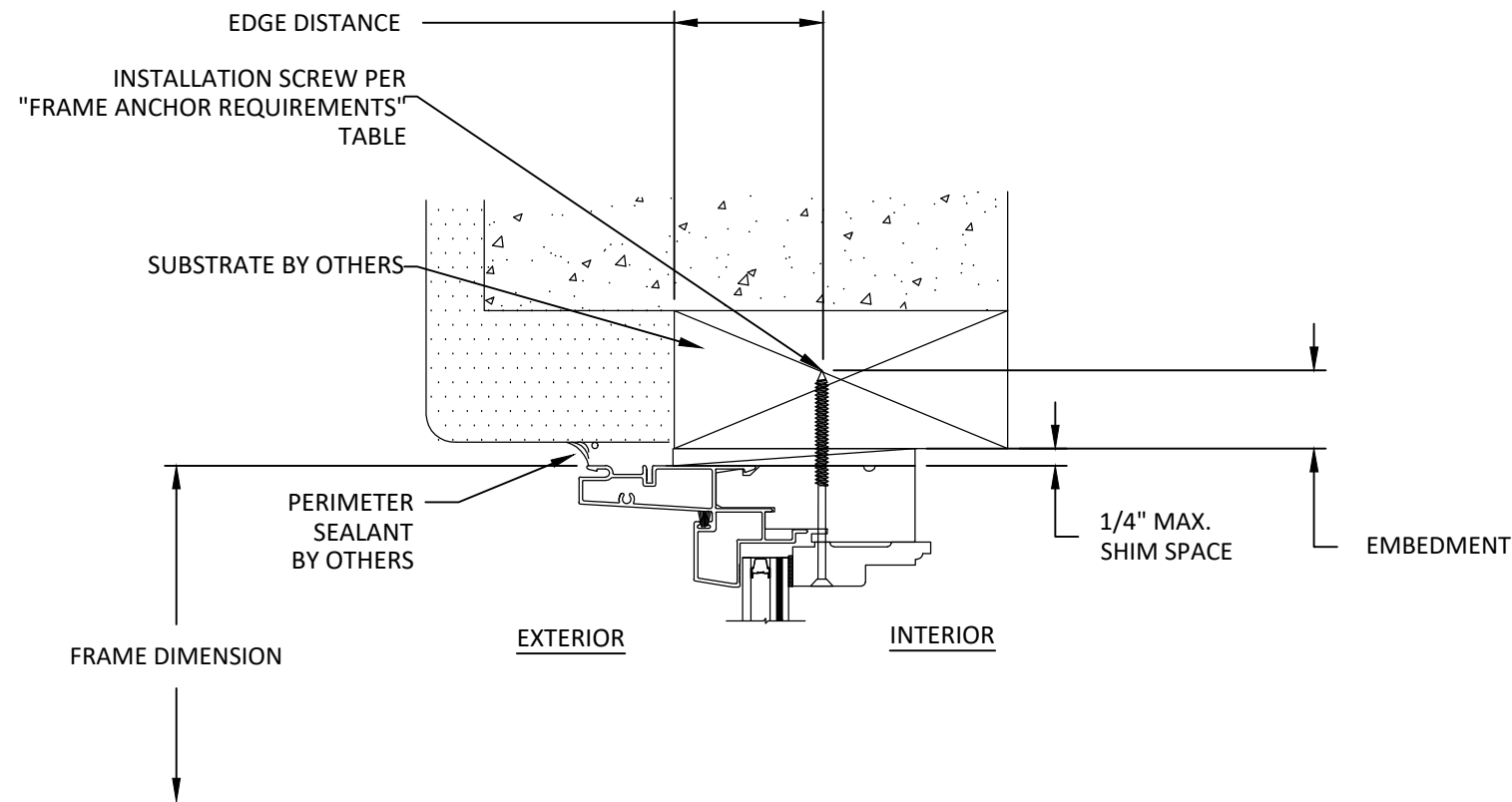
**O 3**  
**OUTSWING-CASEMENT OP**  
HORIZONTAL MULLION



**P 3**  
**DH OP - CASEMENT OP**  
HORIZONTAL MULLION

**MULLION NOTES:**

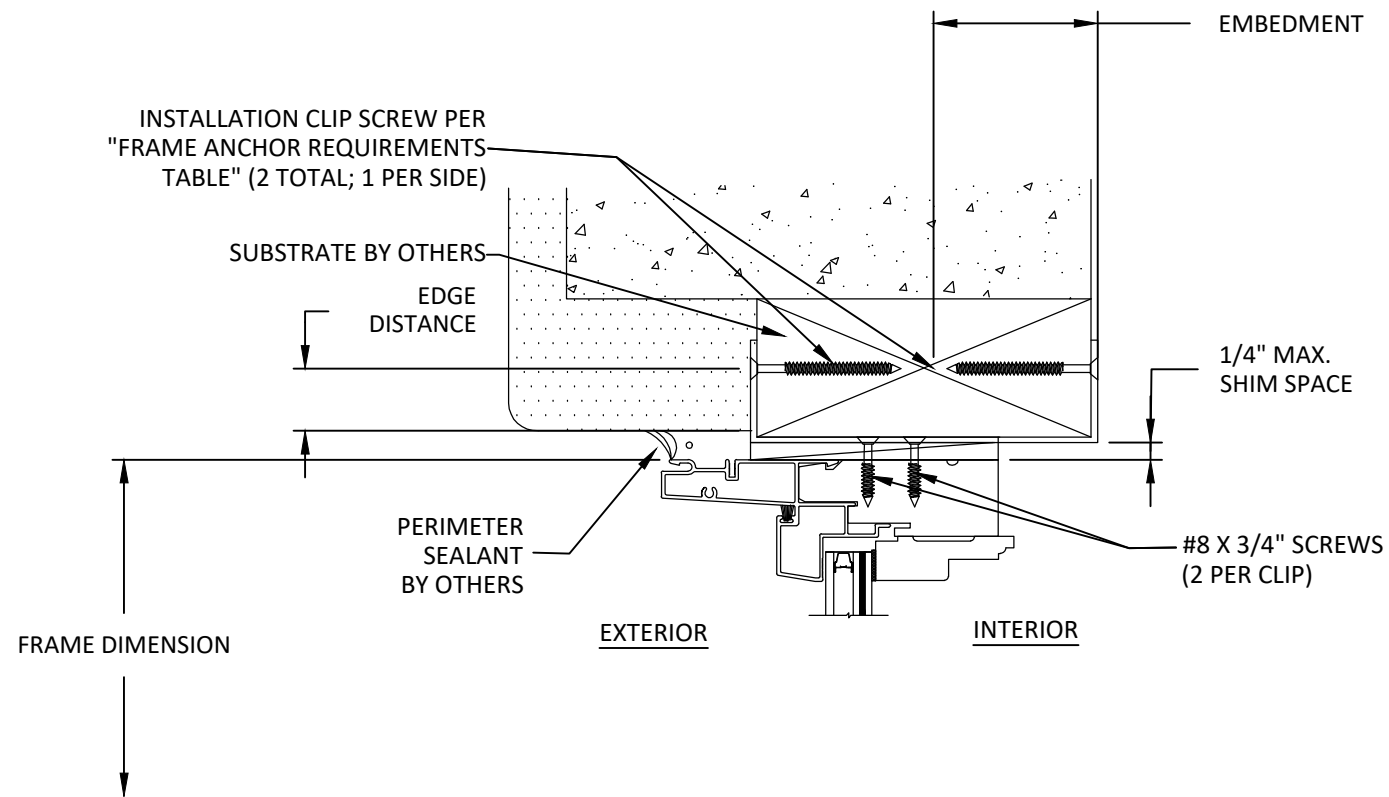
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**A**  
**4**

**HEAD SECTION**  
THROUGH FRAME INSTALLATION  
(SILL & SIDES ARE INSTALLED THE SAME)

FRAME ANCHOR REQUIREMENTS		
ANCHOR SUMMARY TABLE		
ANCHOR	EMBEDMENT	EDGE DISTANCE
#10 WOOD	1-1/4"	3/4"
#10 SMS	3 PITCHES OF THREAD	1/2"
1/4" ULTRACON	1-1/4"	2-1/2"



**B**  
**4**

**HEAD SECTION**  
STRAP INSTALLATION  
(SILL & SIDES ARE INSTALLED THE SAME)



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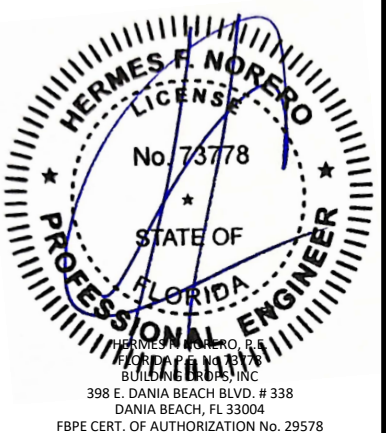
TITLE: Pinnacle Clad 1" LVL Mullion  
(WZ3)(IMPACT)  
INSTALLATION DETAILS

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SHEET:

4

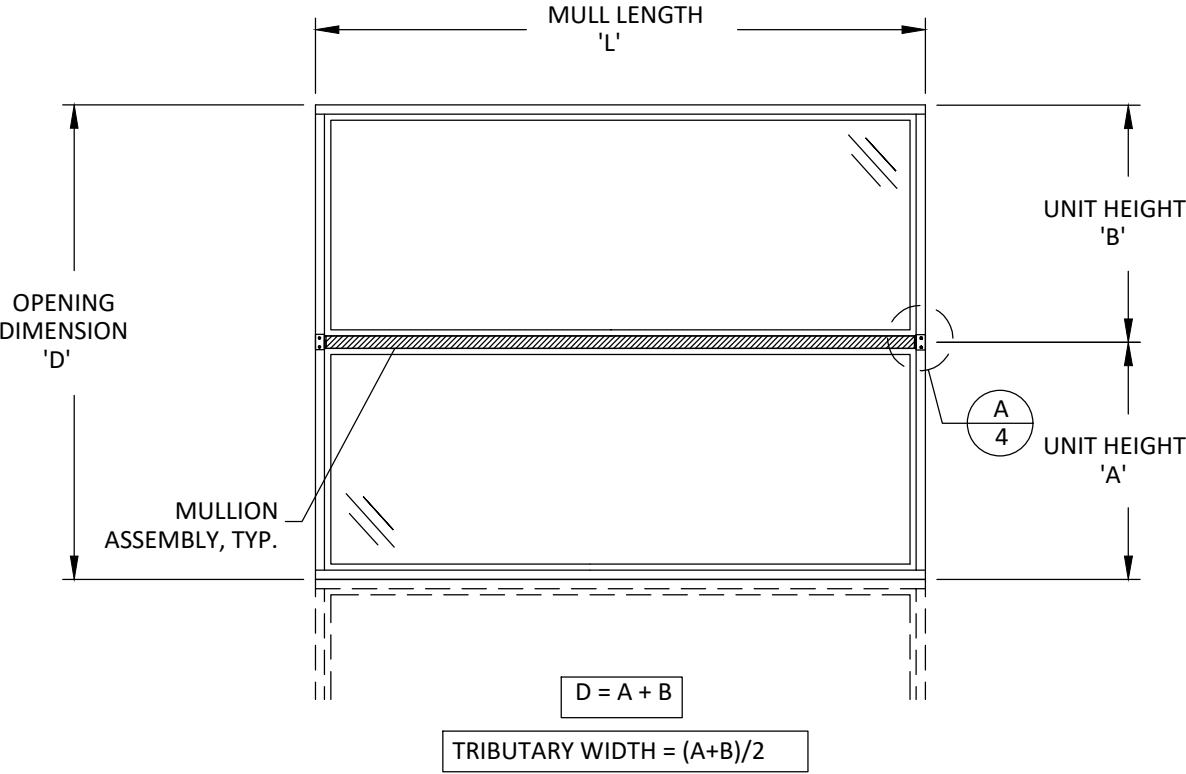
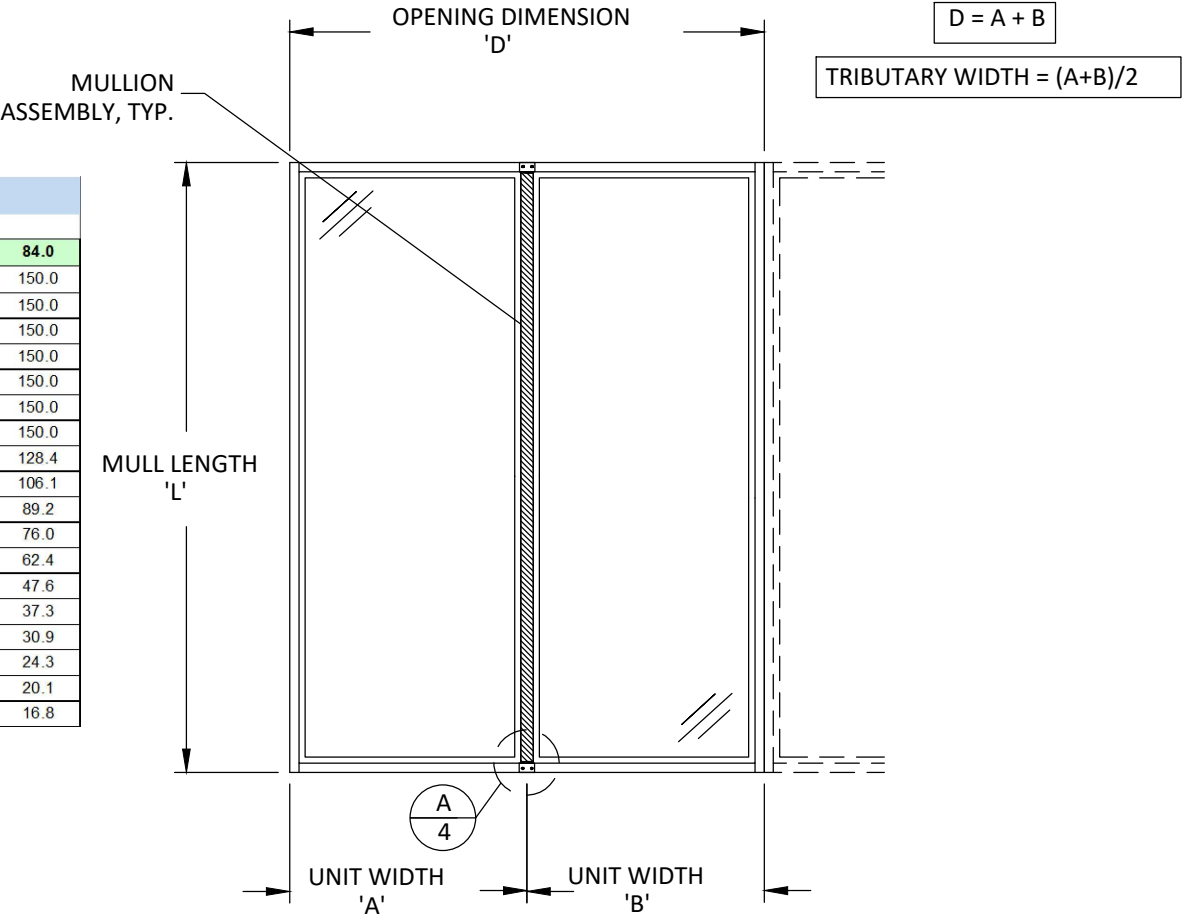
OF 8

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

Maximum design pressure capacity chart (psf):																		
L - Mull Length (in)	W - Tributary Width (in)																	
	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	66.0	72.0	78.0	84.0
18.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
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54.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
60.0	150.0	150.0	150.0	150.0	150.0	150.0	146.3	141.1	137.0	133.8	131.4	129.7	128.7	128.4	128.4	128.4	128.4	128.4
66.0	150.0	150.0	150.0	150.0	141.5	133.8	127.5	122.3	118.1	114.7	111.9	109.8	108.1	107.0	106.1	106.1	106.1	106.1
72.0	150.0	150.0	146.3	135.2	126.2	118.9	112.9	107.9	103.8	100.3	97.5	95.1	93.2	91.7	89.8	89.2	89.2	89.2
78.0	150.0	145.9	132.7	122.3	113.9	107.0	101.3	96.5	92.5	89.2	86.3	83.9	81.9	80.3	77.8	76.4	76.0	76.0
84.0	149.7	133.8	121.4	111.7	103.8	97.3	91.9	87.4	83.5	79.9	76.6	73.7	71.3	69.3	66.1	64.0	62.8	62.4
90.0	132.6	116.9	104.7	95.1	87.3	80.8	75.5	71.0	67.1	63.8	61.0	58.6	56.5	54.7	51.8	49.8	48.4	47.6
96.0	109.0	95.9	85.9	77.9	71.4	66.1	61.6	57.8	54.6	51.8	49.5	47.4	45.6	44.0	41.5	39.6	38.2	37.3
101.0	93.4	82.2	73.5	66.6	61.0	56.4	52.6	49.3	46.5	44.1	42.0	40.2	38.6	37.2	34.9	33.2	31.9	30.9
108.0	76.2	67.0	59.9	54.2	49.6	45.8	42.7	40.0	37.6	35.6	33.9	32.4	31.0	29.9	27.9	26.4	25.2	24.3
114.0	64.7	56.9	50.8	46.0	42.0	38.8	36.1	33.8	31.8	30.0	28.5	27.2	26.1	25.0	23.3	22.0	20.9	20.1
120.0	55.4	48.7	43.4	39.3	35.9	33.1	30.8	28.8	27.1	25.6	24.3	23.1	22.1	21.2	19.7	18.5	17.6	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 ABOVE ARE APPLICABLE FOR 'STANDARD INSTALLATION' PROCEDURES, SEE DETAIL A/4.
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.



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& DOORS

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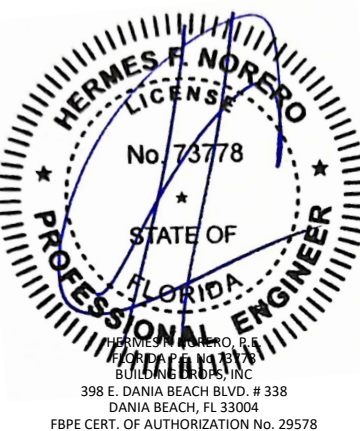
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SHEET:

5

OF 8

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



WINDSOR WINDOWS  
& DOORS

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

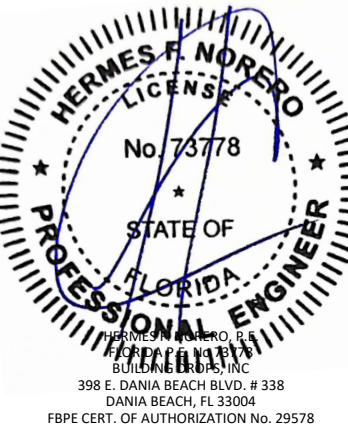
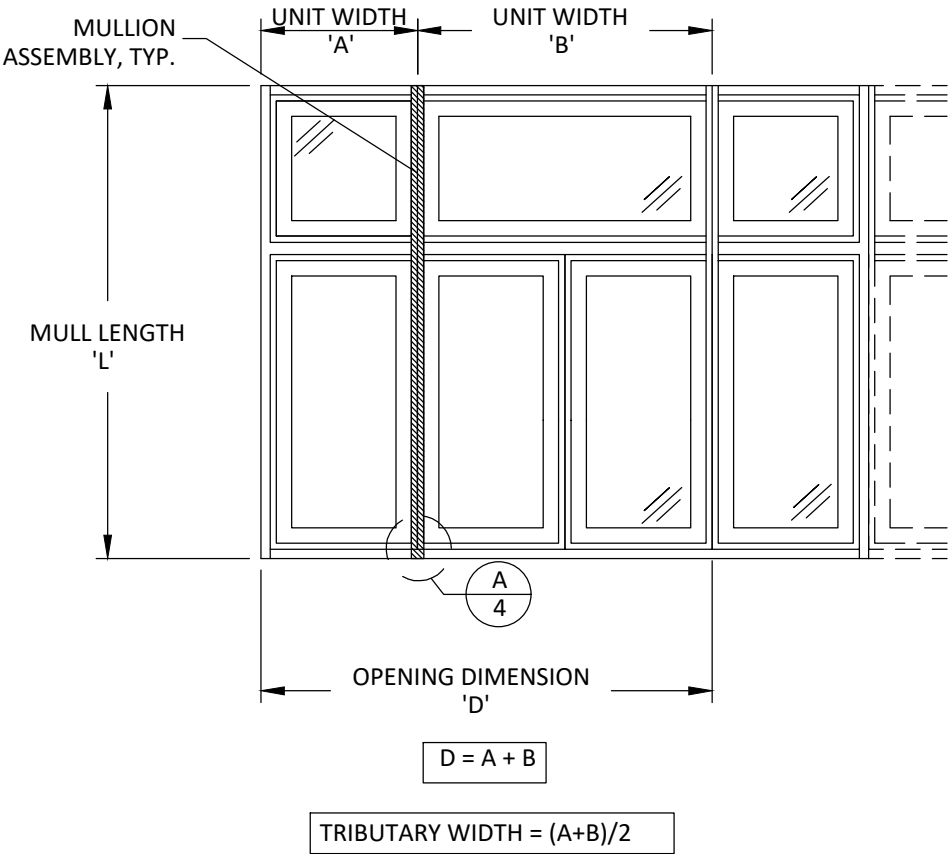
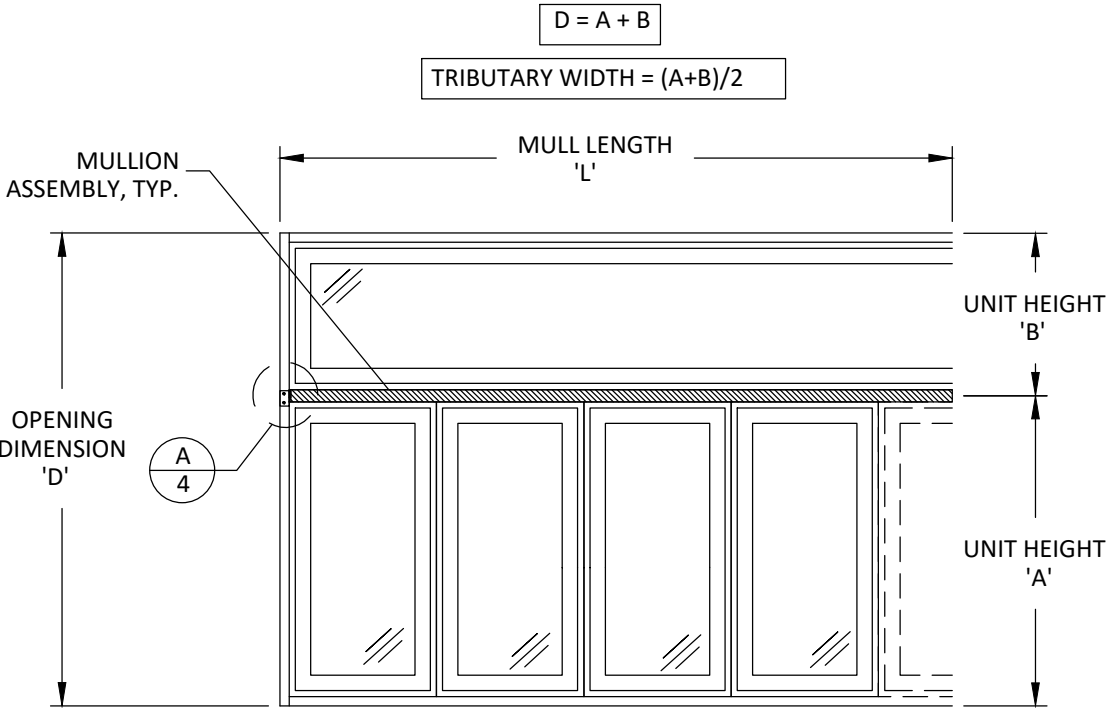
TITLE:  
PINNACLE CLAD 1" LVL MULLION  
(WZ3)(IMPACT)  
2-WAY DESIGN PRESSURE TABLES -  
THROUGH FRAME INSTALLATION

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 design pressure capacity chart (psf):																		
L - Mull Length (in)	W - Tributary Width (in)																	
	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	66.0	72.0	78.0	84.0
18.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	145.9	133.8	123.5	114.7
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	142.7	135.2	128.4	116.7	107.0	98.8
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	142.7	133.8	125.9	118.9	112.6	107.0	97.3	89.2	82.3	76.4
42.0	150.0	150.0	150.0	150.0	150.0	150.0	141.1	131.0	122.3	114.7	107.9	101.9	96.5	91.7	83.4	76.4	70.6	65.5
48.0	150.0	150.0	150.0	150.0	145.9	133.8	123.5	114.7	107.0	100.3	94.4	89.2	84.5	80.3	73.0	66.9	61.7	57.3
54.0	150.0	150.0	150.0	142.7	129.7	118.9	109.8	101.9	95.1	89.2	83.9	79.3	75.1	71.3	64.9	59.4	54.9	51.0
60.0	150.0	150.0	142.7	128.4	116.7	107.0	98.8	91.7	85.6	80.3	75.5	71.3	67.6	64.2	58.4	53.5	49.4	45.9
66.0	150.0	145.9	129.7	116.7	106.1	97.3	89.8	83.4	77.8	73.0	68.7	64.9	61.4	58.4	53.1	48.6	44.9	41.7
72.0	150.0	133.8	118.9	107.0	97.3	89.2	82.3	76.4	71.3	66.9	62.9	59.4	56.3	53.5	48.6	44.6	41.2	38.2
78.0	141.1	123.5	109.8	98.8	89.8	82.3	76.0	70.6	65.9	61.7	58.1	54.9	52.0	49.4	44.9	41.2	38.0	35.3
84.0	131.0	114.7	101.9	91.7	83.4	76.4	70.6	65.5	61.1	57.3	54.0	51.0	48.3	45.9	41.7	38.2	35.3	32.8
90.0	122.3	107.0	95.1	85.6	77.8	71.3	65.9	61.1	57.1	53.5	50.4	47.6	45.1	42.8	38.9	35.7	32.9	30.6
96.0	106.9	93.6	83.2	74.9	68.1	62.4	57.6	53.5	49.9	46.8	44.0	41.6	39.4	37.4	34.0	31.2	28.8	26.7
101.0	91.8	80.4	71.4	64.3	58.4	53.6	49.4	45.9	42.9	40.2	37.8	35.7	33.8	32.1	29.2	26.8	24.7	23.0
108.0	75.1	65.7	58.4	52.6	47.8	43.8	40.4	37.6	35.1	32.9	30.9	29.2	27.7	26.3	23.9	21.9	20.2	18.8
114.0	63.9	55.9	49.7	44.7	40.6	37.3	34.4	31.9	29.8	27.9	26.3	24.8	23.5	22.4	20.3	18.6	17.2	16.0
120.0	54.8	47.9	42.6	38.3	34.8	31.9	29.5	27.4	25.6	24.0	22.5	21.3	20.2	19.2	17.4	16.0		

NOTES:

1. 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
2. THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'STANDARD INSTALLATION' PROCEDURES, SEE DETAIL A/4.
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.



FL21905

DATE: 02.10.17

DWG. BY: LA

CHK. BY: SM

SCALE: NTS

DWG. #: WWD001

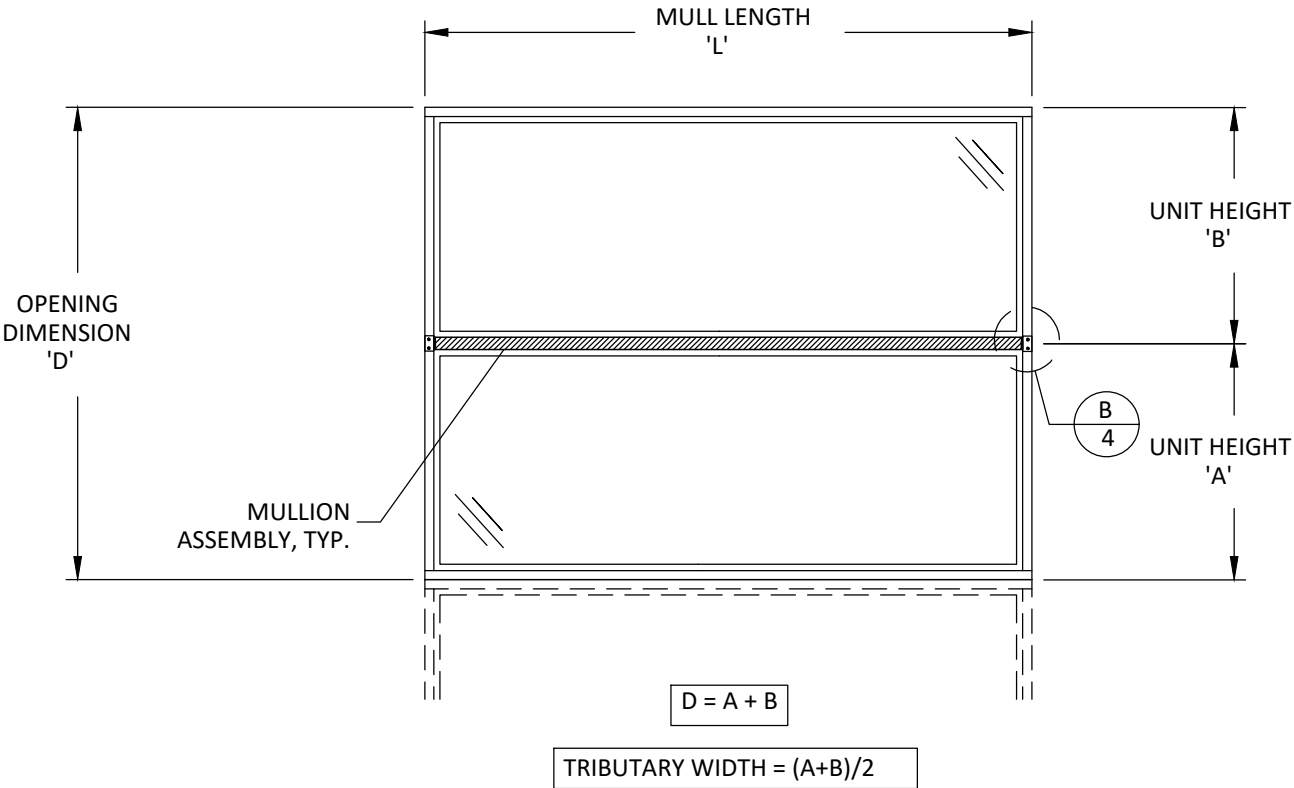
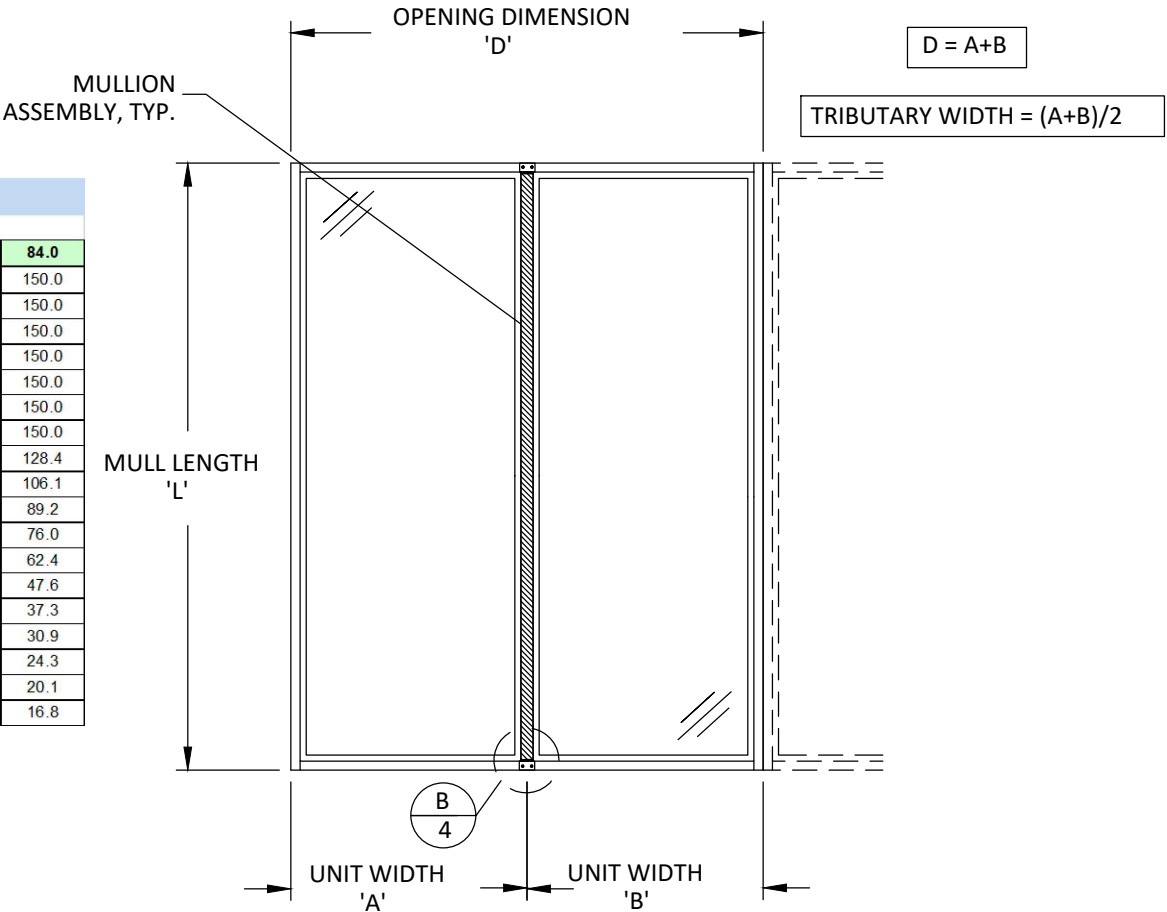
SHEET: 6 OF 8

1" LVL MULLION - STRAP INSTALLATION  
ONE-WAY CONFIGURATIONS (NO INTERMEDIATE MEMBERS)

Maximum design pressure capacity chart (psf):																		
L - Mull Length (in)	W - Tributary Width (in)																	
	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	66.0	72.0	78.0	84.0
18.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
54.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
60.0	150.0	150.0	150.0	150.0	150.0	150.0	146.3	141.1	137.0	133.8	131.4	129.7	128.7	128.4	128.4	128.4	128.4	128.4
66.0	150.0	150.0	150.0	150.0	141.5	133.8	127.5	122.3	118.1	114.7	111.9	109.8	108.1	107.0	106.1	106.1	106.1	106.1
72.0	150.0	150.0	146.3	135.2	126.2	118.9	112.9	107.9	103.8	100.3	97.5	95.1	93.2	91.7	89.8	89.2	89.2	89.2
78.0	150.0	145.9	132.7	122.3	113.9	107.0	101.3	96.5	92.5	89.2	86.3	83.9	81.9	80.3	77.8	76.4	76.0	76.0
84.0	149.7	133.8	121.4	111.7	103.8	97.3	91.9	87.4	83.5	79.9	76.6	73.7	71.3	69.3	66.1	64.0	62.8	62.4
90.0	132.6	116.9	104.7	95.1	87.3	80.8	75.5	71.0	67.1	63.8	61.0	58.6	56.5	54.7	51.8	49.8	48.4	47.6
96.0	109.0	95.9	85.9	77.9	71.4	66.1	61.6	57.8	54.6	51.8	49.5	47.4	45.6	44.0	41.5	39.6	38.2	37.3
101.0	93.4	82.2	73.5	66.6	61.0	56.4	52.6	49.3	46.5	44.1	42.0	40.2	38.6	37.2	34.9	33.2	31.9	30.9
108.0	76.2	67.0	59.9	54.2	49.6	45.8	42.7	40.0	37.6	35.6	33.9	32.4	31.0	29.9	27.9	26.4	25.2	24.3
114.0	64.7	56.9	50.8	46.0	42.0	38.8	36.1	33.8	31.8	30.0	28.5	27.2	26.1	25.0	23.3	22.0	20.9	20.1
120.0	55.4	48.7	43.4	39.3	35.9	33.1	30.8	28.8	27.1	25.6	24.3	23.1	22.1	21.2	19.7	18.5	17.6	16.8

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 'ALTERNATE INSTALLATION' PROCEDURES, SEE DETAIL B/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.



WINDSOR WINDOWS  
& DOORS

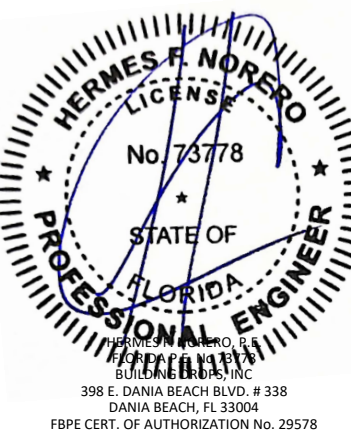
900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

TITLE:  
PINNACLE CLAD 1" LVL MULLION  
(WZ3)(IMPACT)  
1-WAY DESIGN PRESSURE TABLES -  
STRAP INSTALLATION

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

REMARKS	BY	DATE
FBC 2017 UPDATE	LS	06/17
FBC 2020 UPDATE	LL	11/20
FBC 2023 UPDATE	MG	02/23

THE INSTALLATION DETAILS DESCRIBED HERE IN 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.



FL21905

DATE: 02.10.17

DWG. BY:  
LA

CHK. BY:  
SM

SCALE: NTS

DWG. #: WWD001

SHEET:

7

OF 8

1" LVL MULLION - STRAP INSTALLATION  
TWO-WAY CONFIGURATIONS (WITH INTERMEDIATE MEMBERS)



WINDSOR WINDOWS  
& DOORS

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

TITLE: PINNACLE CLAD 1" LVL MULLION  
(WZ3)(IMPACT)  
2-WAY DESIGN PRESSURE TABLES -  
STRAP INSTALLATION

PREPARED BY: BUILDING DROPS, INC.  
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REMARKS	BY	DATE
FBC 2017 UPDATE	LS	06/17
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FL21905

DATE: 02.10.17

DWG. BY:  
LA

CHK. BY:  
SM

SCALE: NTS

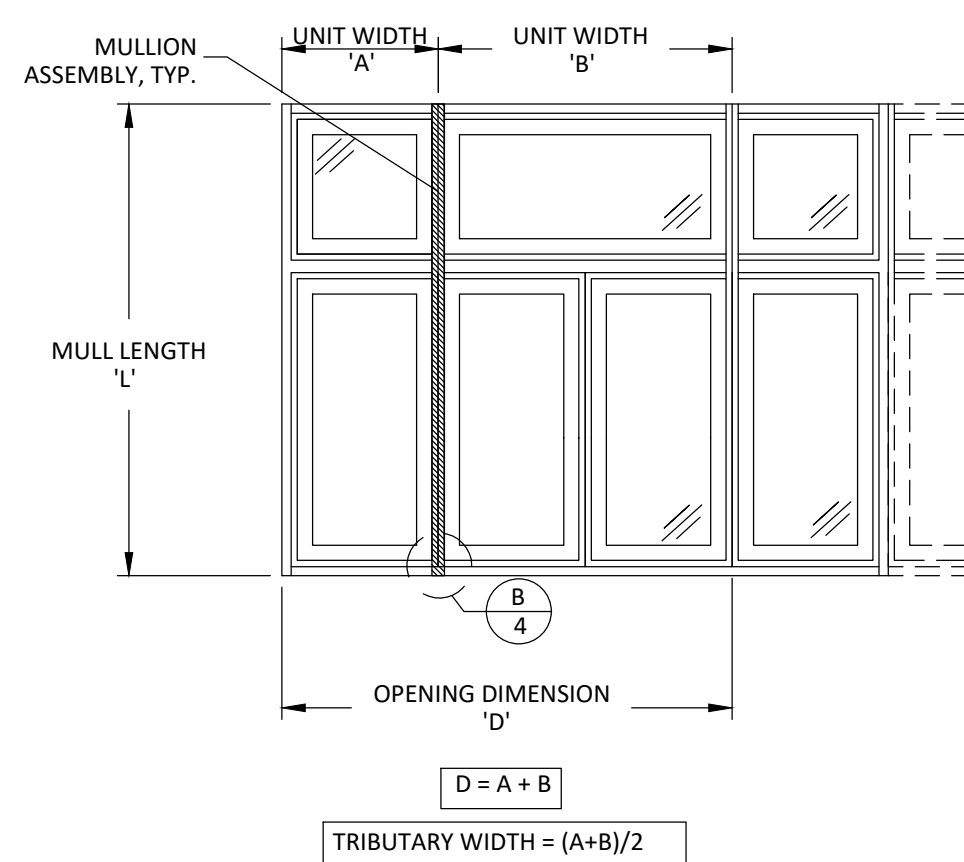
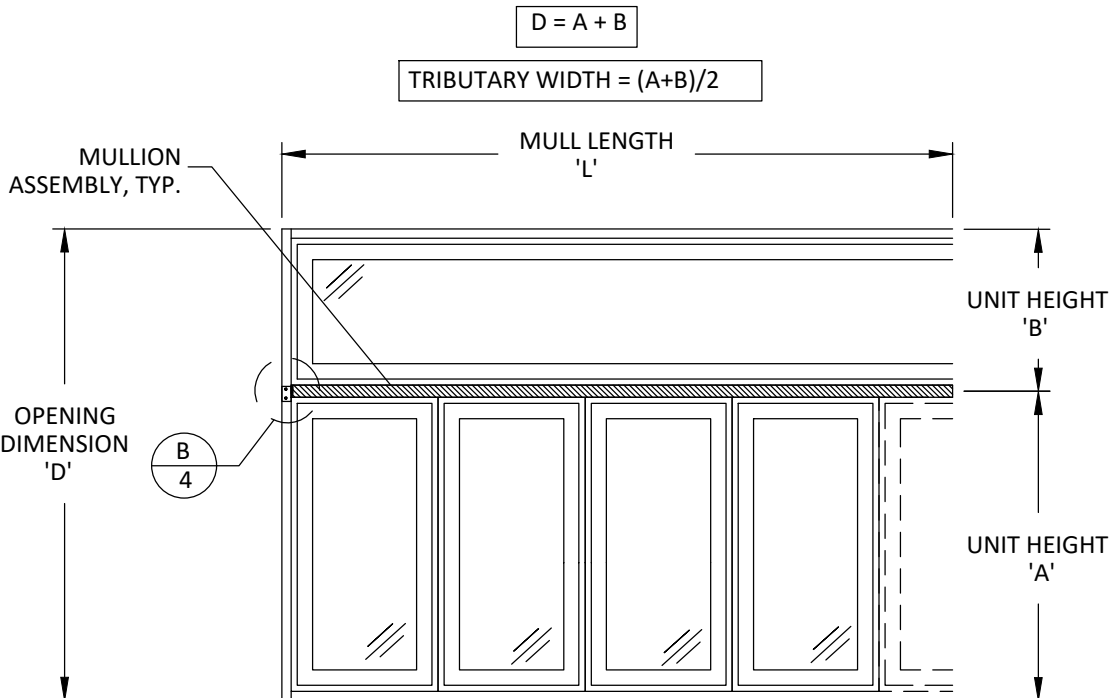
DWG. #: WWD001

SHEET:

8

OF 8

Maximum design pressure capacity chart (psf):																		
L - Mull Length (in)	W - Tributary Width (in)																	
	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	66.0	72.0	78.0	84.0
18.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	145.9	133.8	123.5	114.7
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	142.7	135.2	128.4	116.7	107.0	98.8
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	142.7	133.8	125.9	118.9	112.6	107.0	97.3	89.2	82.3
42.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	141.1	131.0	122.3	114.7	107.9	101.9	96.5	91.7	83.4	76.4	70.6
48.0	150.0	150.0	150.0	150.0	145.9	133.8	123.5	114.7	107.0	100.3	94.4	89.2	84.5	80.3	73.0	66.9	61.7	57.3
54.0	150.0	150.0	150.0	142.7	129.7	118.9	109.8	101.9	95.1	89.2	83.9	79.3	75.1	71.3	64.9	59.4	54.9	51.0
60.0	150.0	150.0	142.7	128.4	116.7	107.0	98.8	91.7	85.6	80.3	75.5	71.3	67.6	64.2	58.4	53.5	49.4	45.9
66.0	150.0	145.9	129.7	116.7	106.1	97.3	89.8	83.4	77.8	73.0	68.7	64.9	61.4	58.4	53.1	48.6	44.9	41.7
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84.0	131.0	114.7	101.9	91.7	83.4	76.4	70.6	65.5	61.1	57.3	54.0	51.0	48.3	45.9	41.7	38.2	35.3	32.8
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108.0	75.1	65.7	58.4	52.6	47.8	43.8	40.4	37.6	35.1	32.9	30.9	29.2	27.7	26.3	23.9	21.9	20.2	18.8
114.0	63.9	55.9	49.7	44.7	40.6	37.3	34.4	31.9	29.8	27.9	26.3	24.8	23.5	22.4	20.3	18.6	17.2	16.0
120.0	54.8	47.9	42.6	38.3	34.8	31.9	29.5	27.4	25.6	24.0	22.5	21.3	20.2	19.2	17.4	16.0		



NOTES:

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