

JELD-WEN, inc.

SITELINE OR W-5500 ALUMINUM CLAD WOOD CASEMENT/AWNING MULLION ASSEMBLIES



3737 LAKEPORT BLVD
KLAMATH FALLS, OR 97601
PH: (541) 882-3451 FAX: (541) 850-2609

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- 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.
- 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.
- THROUGH FRAME OR NAIL FIN:** FOR INSTALLATION INTO 2X WOOD FRAMING USE MINIMUM #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2" MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. MINIMUM EDGE DISTANCE OF 3/4" SHALL BE MAINTAINED.
- THROUGH FRAME:** FOR INSTALLATION INTO CONCRETE/MASONRY, USE 3/16" ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 3/4" MINIMUM EMBEDMENT INTO CONCRETE/MASONRY. MINIMUM EDGE DISTANCE OF 2 1/2" SHALL BE MAINTAINED.
- THROUGH FRAME OR NAIL FIN:** FOR INSTALLATION INTO METAL STUD, USE #10 TEK SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM 3 THREADS PENETRATION BEYOND METAL STRUCTURAL ELEMENT. MINIMUM 1/2" EDGE DISTANCE SHALL BE MAINTAINED.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM 3000 PSI COMPRESSIVE STRENGTH
 - HOLLOW/GROUT FILLED CMU - STRENGTH CONFORMANCE TO ASTM C90, MIN. F'm = 2000 PSI.
 - STEEL - MINIMUM 16 GA. (.054") MINIMUM TENSILE YIELD, F_y = 33 KSI.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC) AND INTERNATIONAL BUILDING CODE (IBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA 450-10
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** FOR THIS PRODUCT IN WIND ZONES 3 OR LESS PROVIDED WINDOW/DOOR ASSEMBLIES ARE MINIMUM WIND ZONE 3 IMPACT RATED. IN WIND ZONE 4, UNITS SHALL REQUIRE IMPACT PROTECTION.
- FRAME & MULLION MATERIAL: PRESSURE TREATED PINE WITH AURALAST® (MINIMUM S.G. = 0.42)
- CLADDING MATERIAL: ALUMINUM 6063-T5

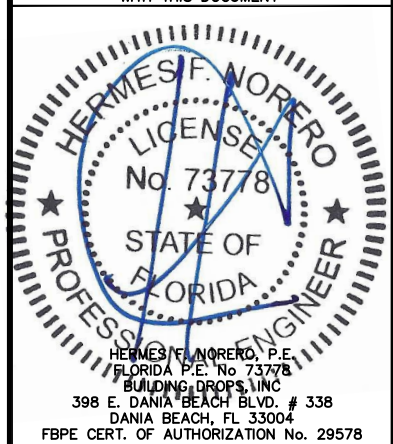
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TITLE: SITELINE OR W-5500 CLAD CASEMENT/AWNING MULLION
INSTALLATION & GENERAL NOTES

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| REMARKS | BY | DATE |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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FL #: **FL17868**

DATE: **09.01.17**

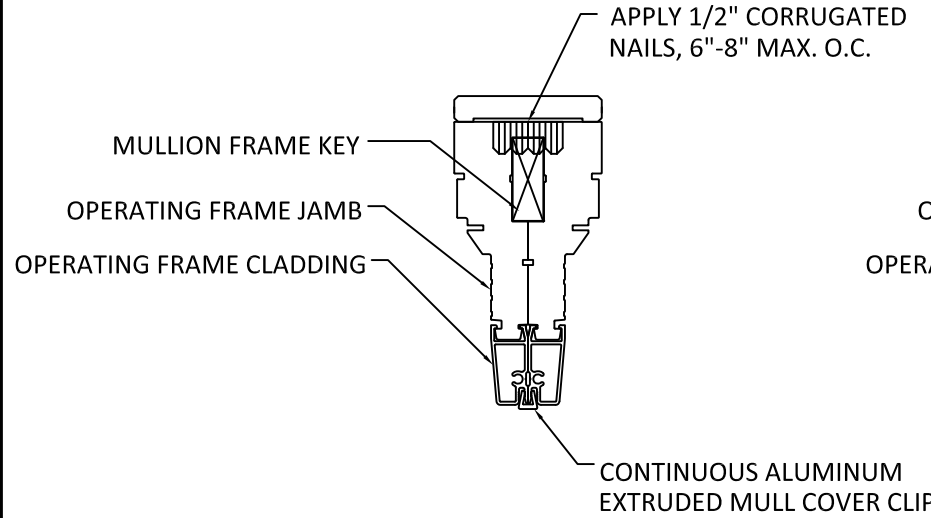
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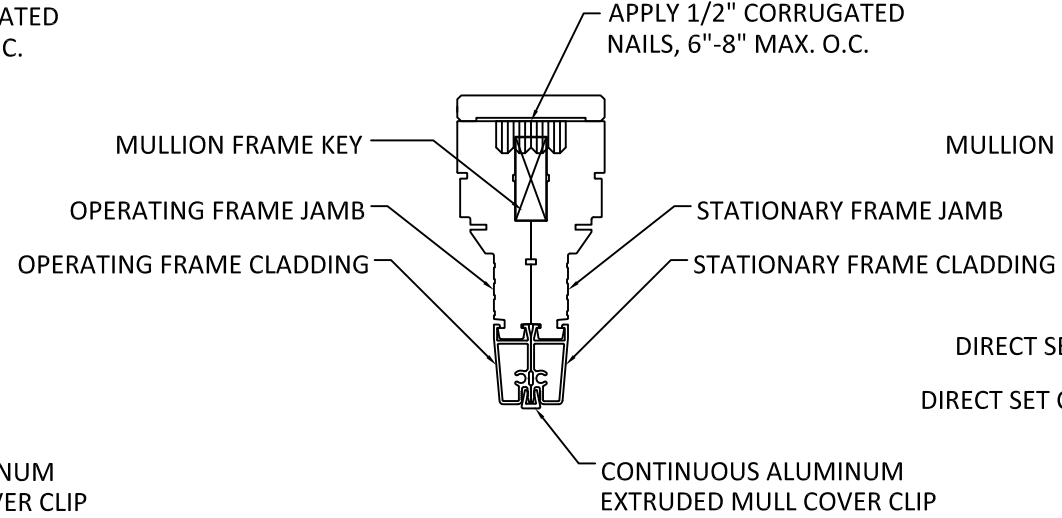
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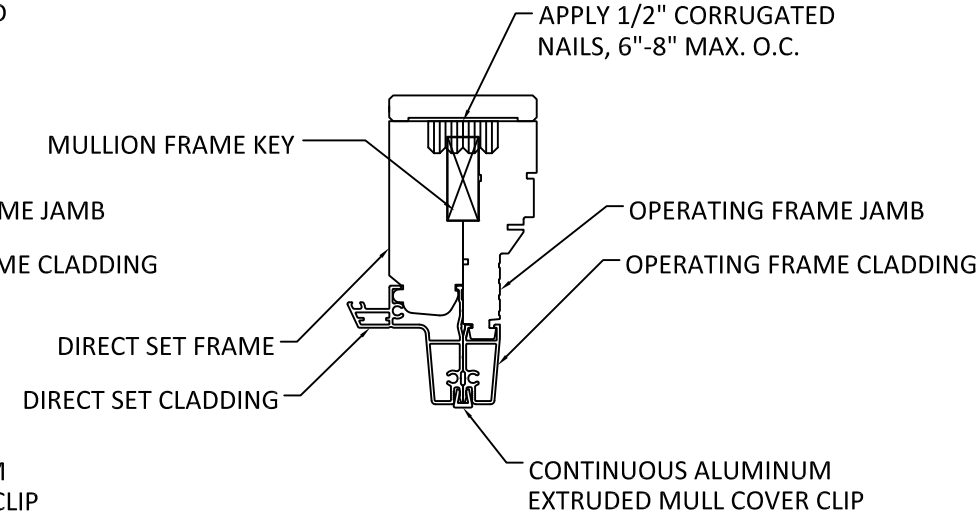
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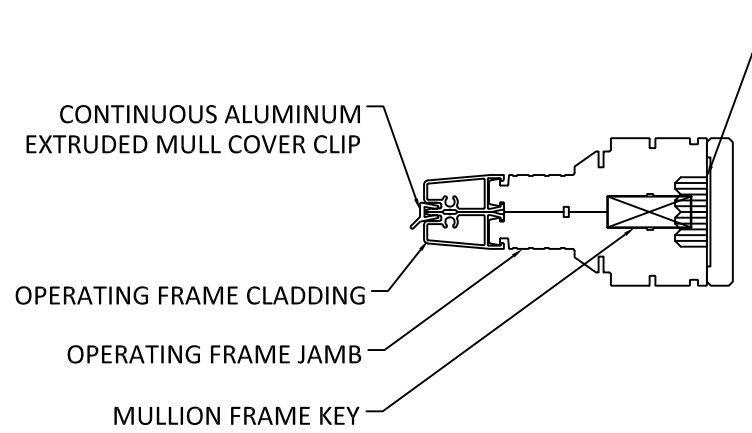
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VERTICAL MULLION



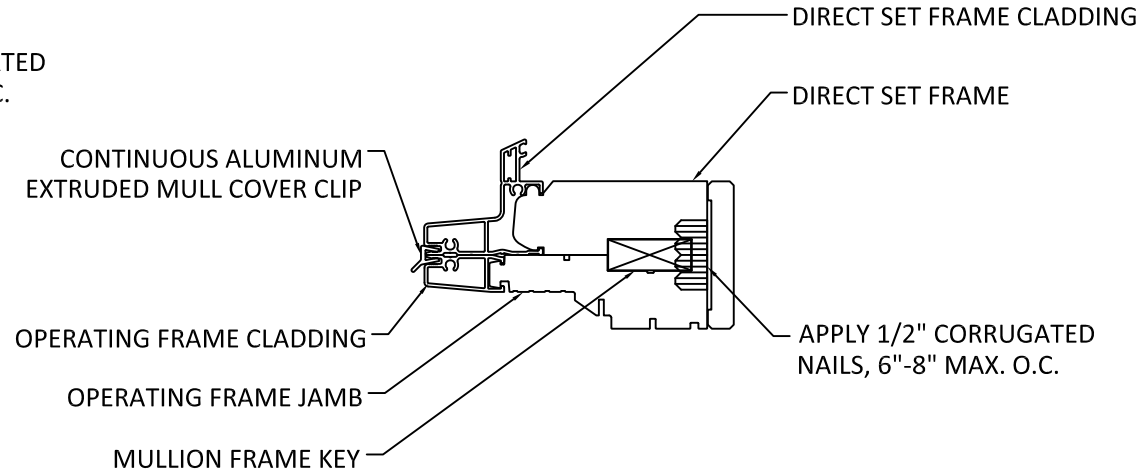
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2 **OPERATING-STATIONARY**
VERTICAL MULLION



C
2 **DIRECT SET-OPERATING**
VERTICAL MULLION



D
2 **STATIONARY-OPERATING**
HORIZONTAL MULL



E
2 **DIRECT SET-OPERATING**
HORIZONTAL MULL

- MULLION CONNECTION NOTES**
- ASSEMBLIES SHOWN HEREIN, SHEET 2, MAY BE USED WITH DESIGN PRESSURE RATINGS SHOWN ON TABLE A.1: ONE WAY MULLIONS "JAMB TO JAMB".
 - REFER TO SHEET 8 FOR ANCHORAGE REQUIREMENTS.

TITLE: SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION

"JAMB TO JAMB" MULLION ASSEMBLIES

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| REMARKS | BY | DATE |
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| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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

FL #:

FL17868

DATE: **09.01.17**

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| DWG. BY: CL | CHK. BY: HFN |
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SCALE: **NTS**

DWG. #: **JW060**

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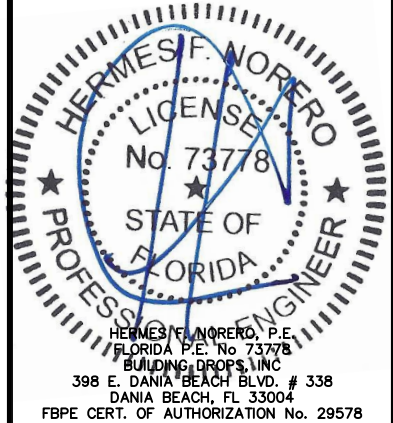
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TITLE: SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION
"1/4" STRUCTURAL MULLION" ASSEMBLIES

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| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

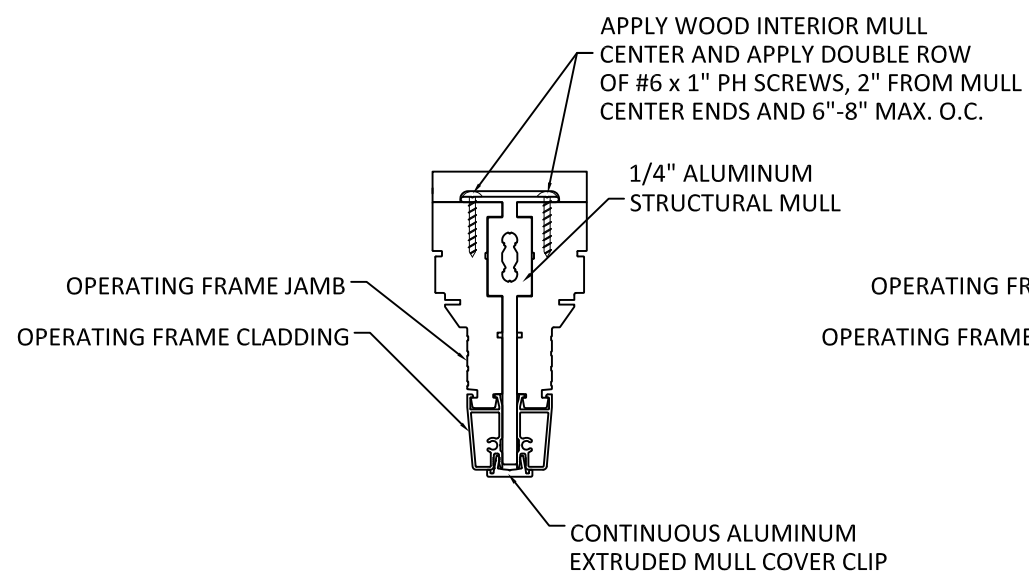
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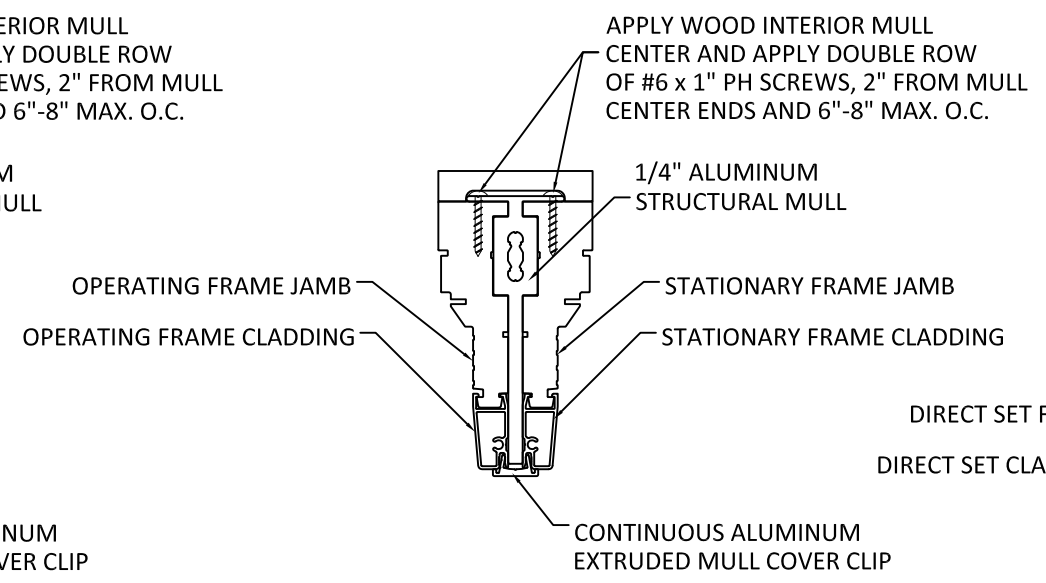
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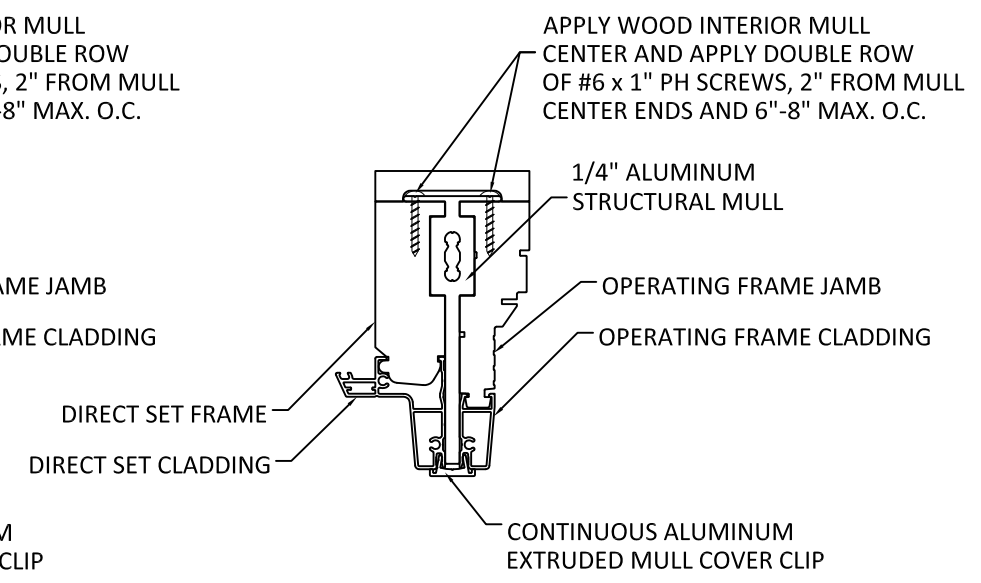
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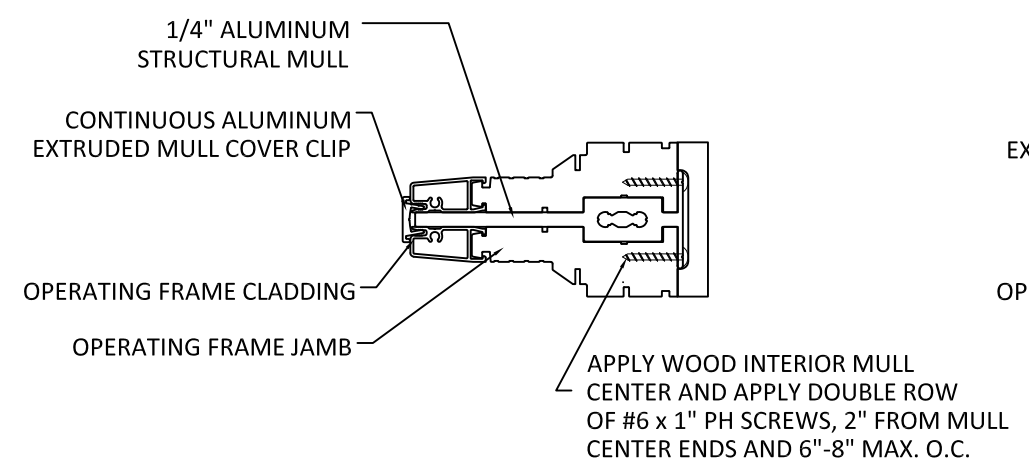
A
3 OPERATING-OPERATING
VERTICAL MULLION



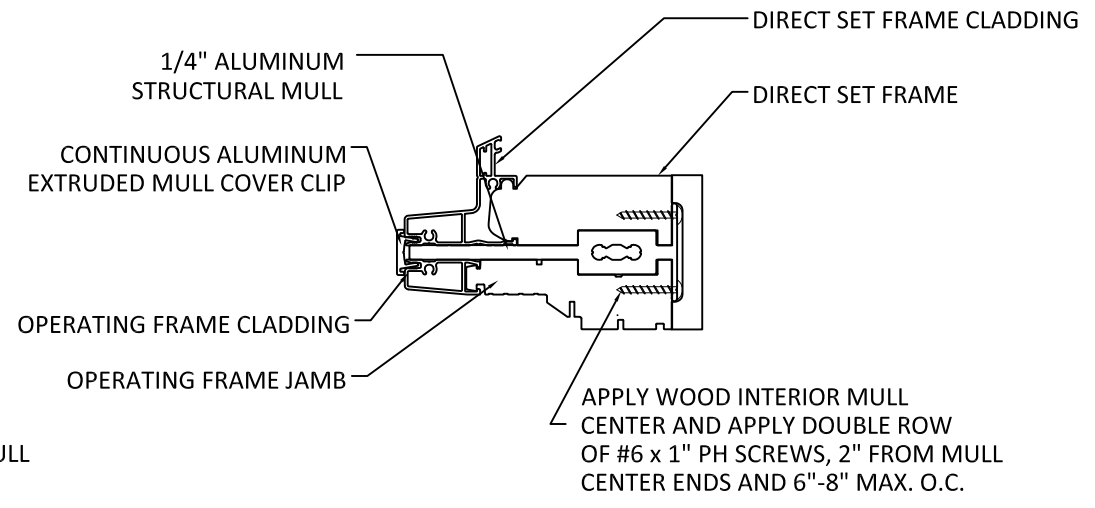
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3 OPERATING-STATIONARY
VERTICAL MULLION



C
3 DIRECT SET-OPERATING
VERTICAL MULLION



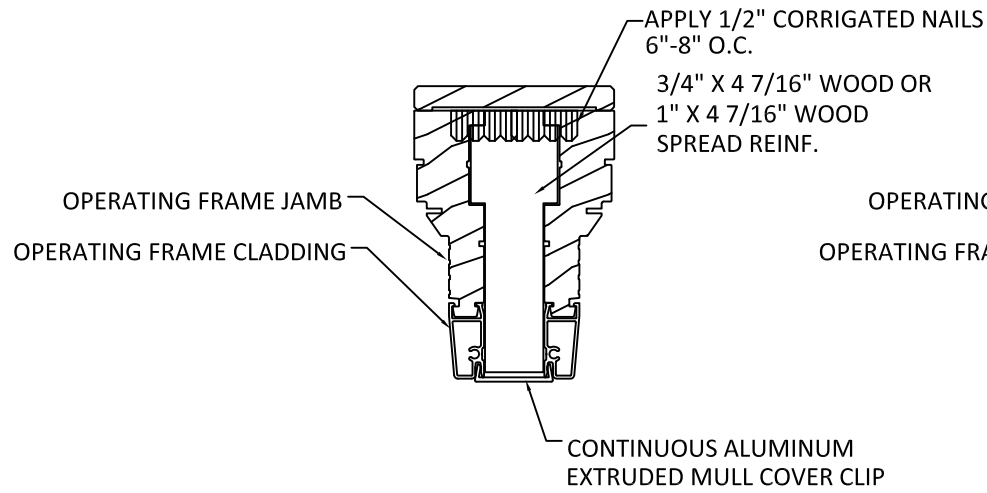
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HORIZONTAL MULLION



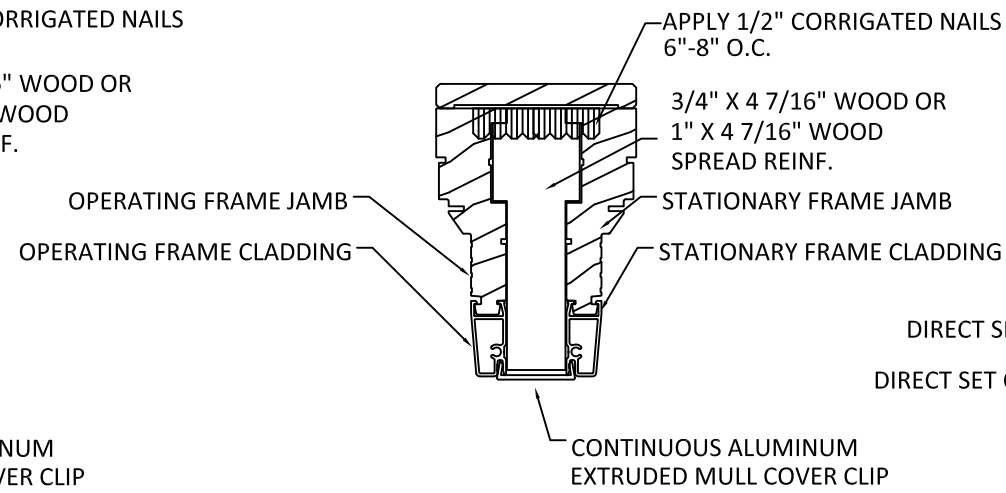
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3 DIRECT SET-OPERATING
HORIZONTAL MULLION

- MULLION CONNECTION NOTES**
- ASSEMBLIES SHOWN HEREIN, SHEET 3, MAY BE USED WITH DESIGN PRESSURE RATINGS SHOWN ON TABLE B.1: ONE WAY MULLIONS "1/4" STRUCTURAL MULLION" AND TABLE B.2: TWO WAY MULLIONS "1/4" STRUCTURAL MULLION".
 - REFER TO SHEET 8 FOR ANCHORAGE REQUIREMENTS.

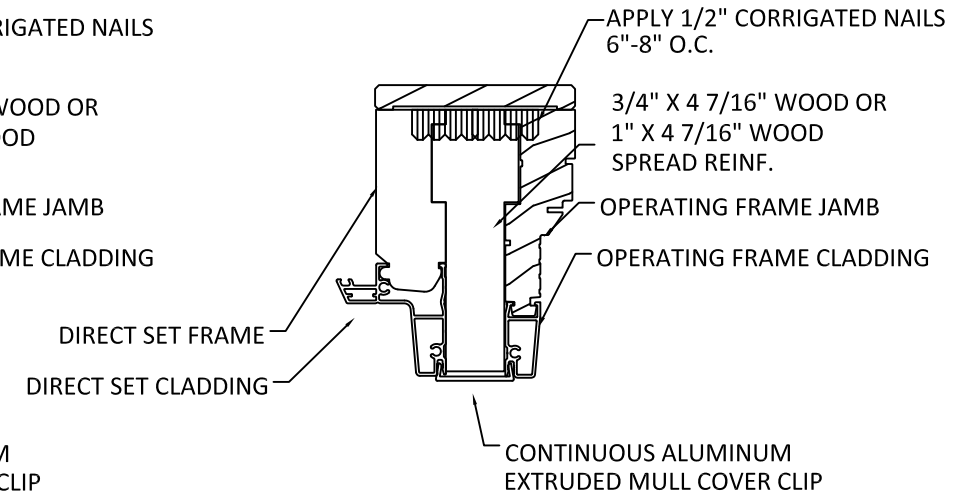
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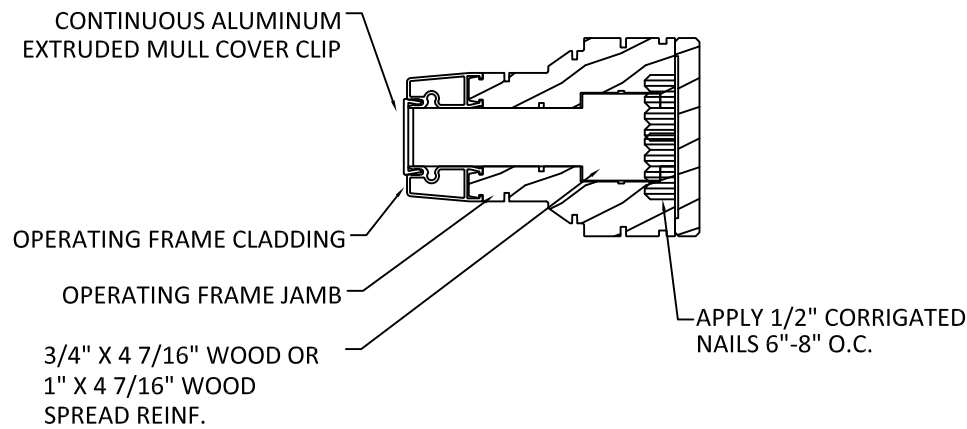
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4 OPERATING-OPERATING
VERTICAL MULLION



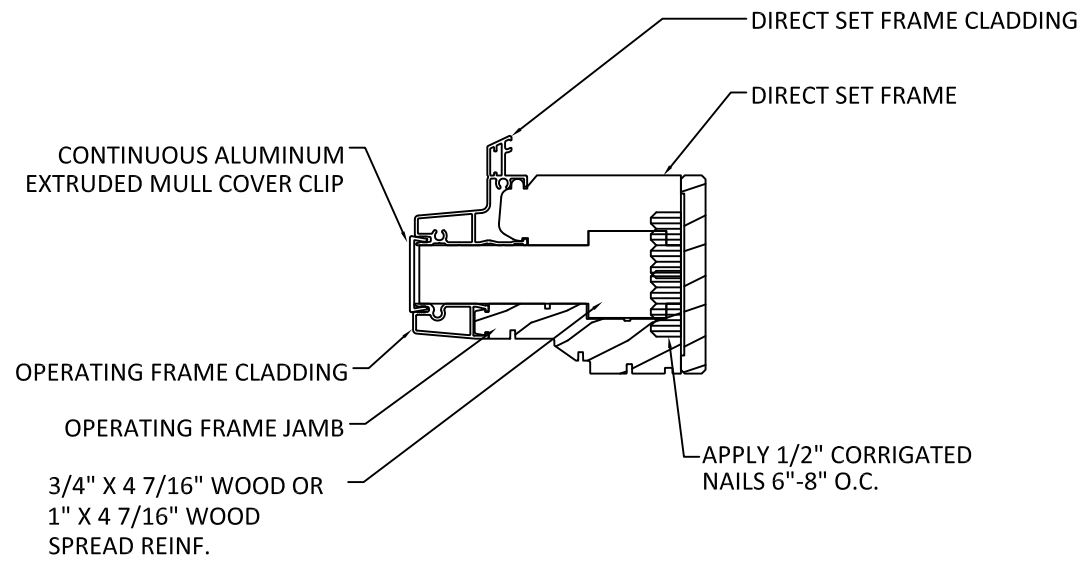
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4 OPERATING-STATIONARY
VERTICAL MULLION



C
4 DIRECT SET-OPERATING
VERTICAL MULLION



D
4 STATIONARY-OPERATING
HORIZONTAL MULL



E
4 DIRECT SET-OPERATING
HORIZONTAL MULL

MULLION CONNECTION NOTES


- ASSEMBLIES SHOWN HEREIN, SHEET 4, MAY BE USED WITH DESIGN PRESSURE RATINGS SHOWN ON TABLE C.1: ONE WAY MULLIONS "3/4" SOLID SPREAD MULL" AND TABLE C.2: TWO WAY MULLIONS "3/4" SOLID SPREAD MULL" OR TABLE D.1: ONE WAY MULLIONS "1" SOLID SPREAD MULL" AND TABLE D.2: TWO WAY MULLIONS "1" SOLID SPREAD MULL" DEPENDENT ON SPREAD MULL.
- REFER TO SHEET 8 FOR ANCHORAGE REQUIREMENTS.

TITLE:
SITELINE OR W-5500 CLAD
CASEMENT /AWING MULLION

"3/4" OR 1"
SOLID SPREAD MULLION"
ASSEMBLIES

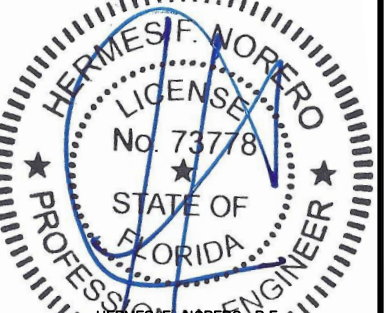
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| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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FL #: **FL17868**

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**


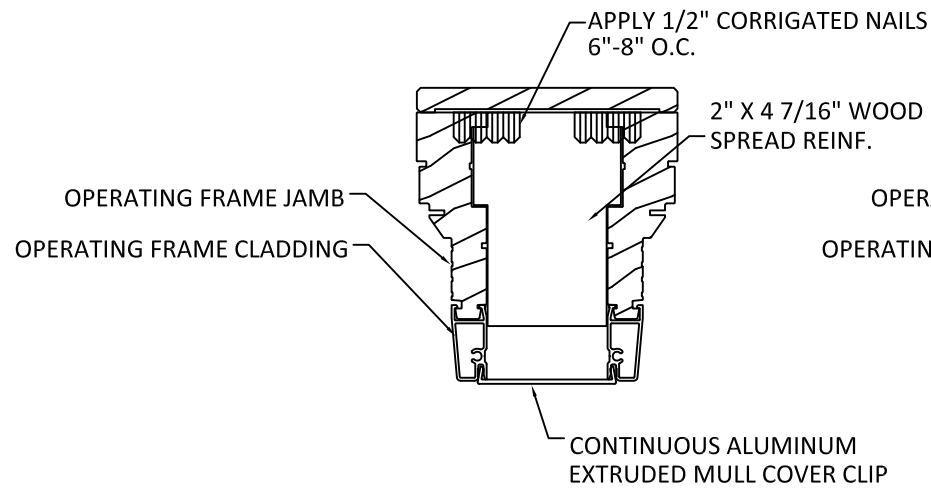
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DWG. #: **JW060**

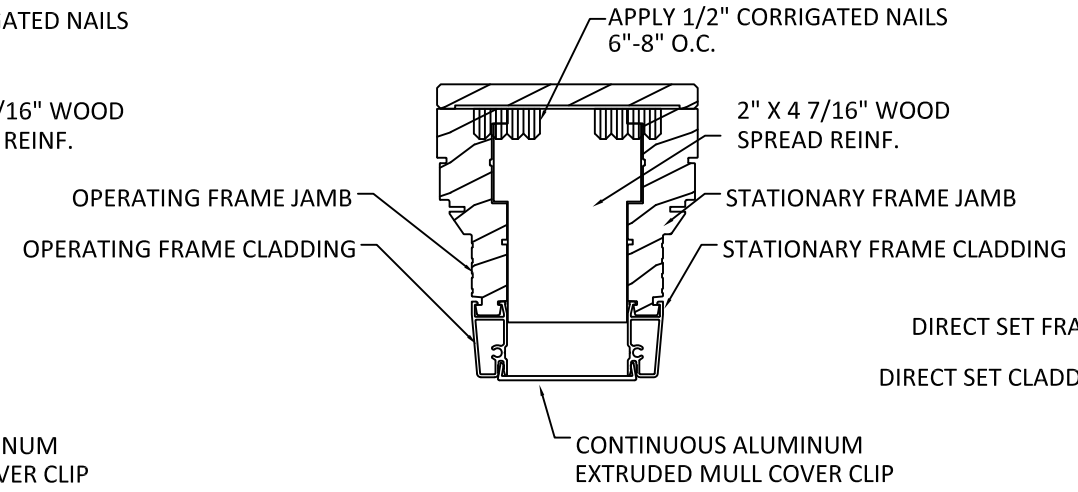
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TITLE: **SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION**
"2" SOLID SPREAD MULLION" ASSEMBLIES

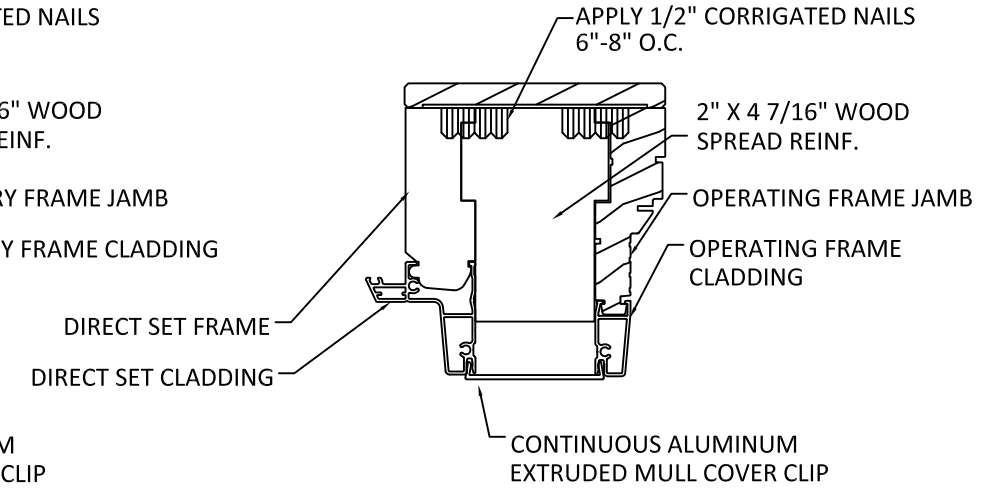
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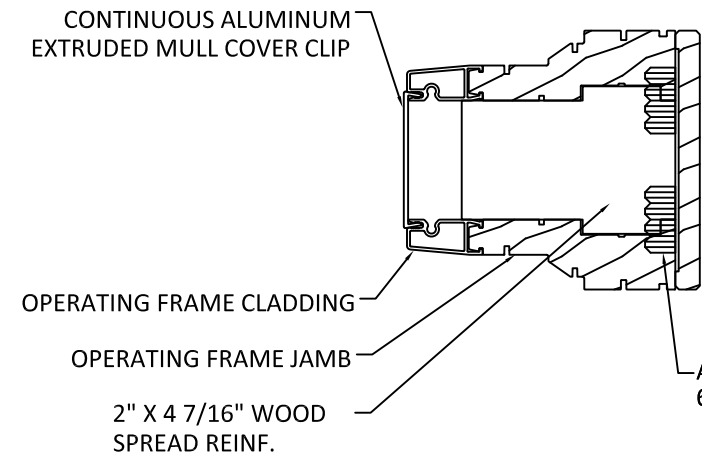
A
5 **OPERATING-OPERATING**
VERTICAL MULLION



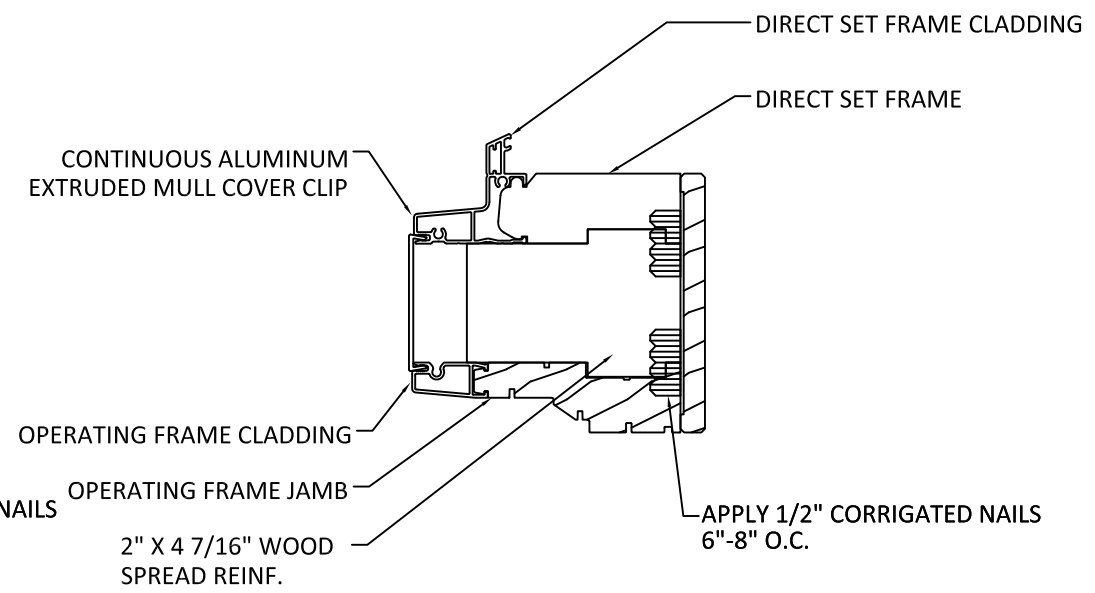
B
5 **OPERATING-STATIONARY**
VERTICAL MULLION



C
5 **DIRECT SET-OPERATING**
VERTICAL MULLION



D
5 **STATIONARY-OPERATING**
HORIZONTAL MULL




E
5 **DIRECT SET-OPERATING**
HORIZONTAL MULL

- MULLION CONNECTION NOTES
- ASSEMBLIES SHOWN HEREIN, SHEET 5, MAY BE USED WITH DESIGN PRESSURE RATINGS SHOWN ON TABLE D.1: ONE WAY MULLIONS "1" SOLID SPREAD MULL" AND TABLE D.2: TWO WAY MULLIONS "1" SOLID SPREAD MULL".
 - REFER TO SHEET 8 FOR ANCHORAGE REQUIREMENTS.

| REMARKS | BY | DATE |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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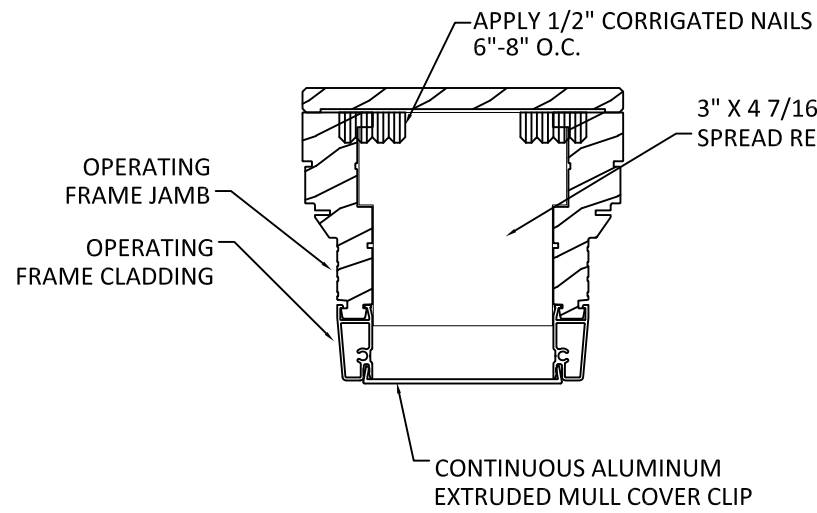
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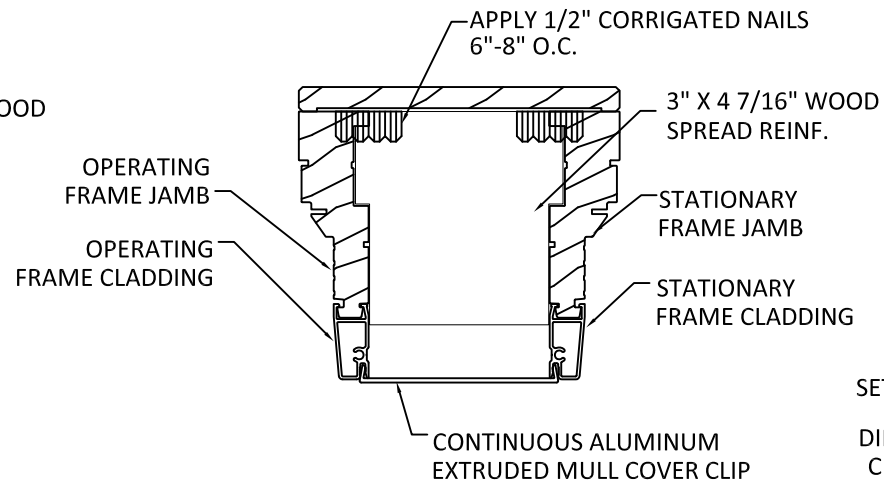
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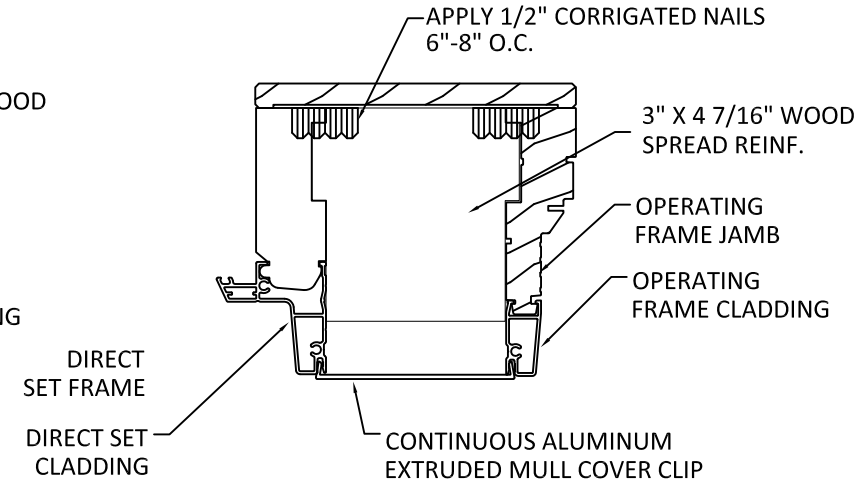
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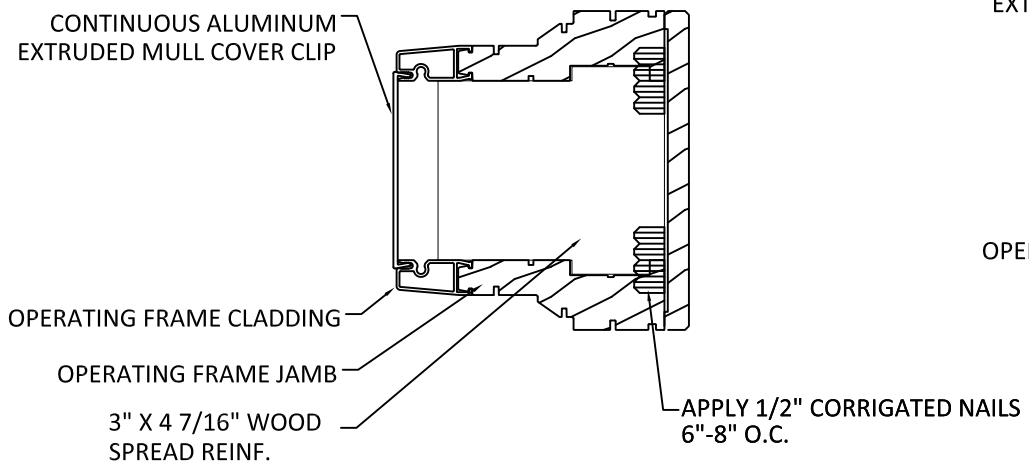
A
6 OPERATING-OPERATING
VERTICAL MULLION



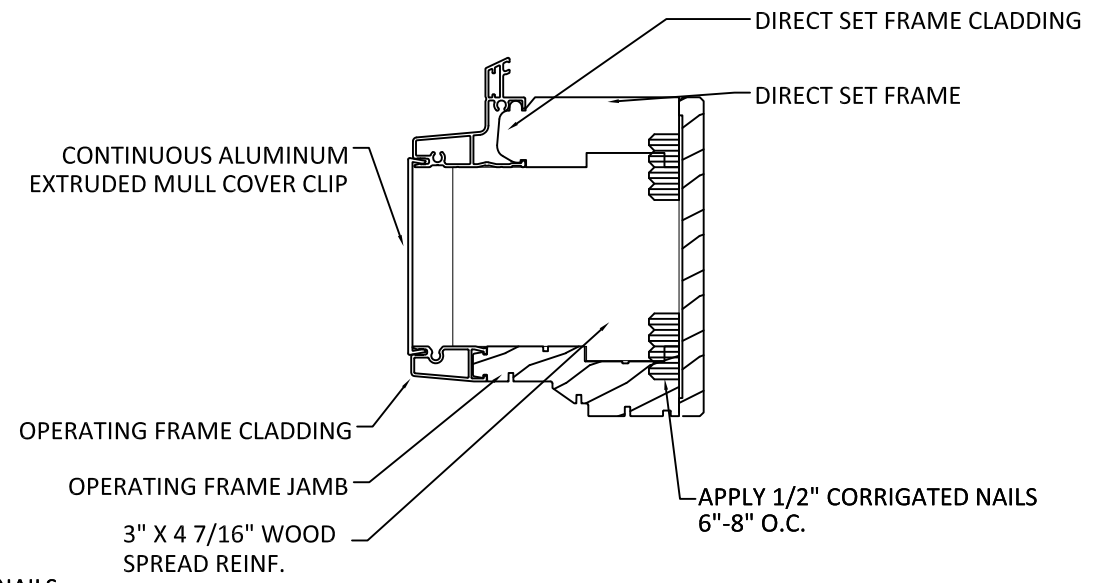
B
6 OPERATING-STATIONARY
VERTICAL MULLION



C
6 DIRECT SET-OPERATING
VERTICAL MULLION



D
6 STATIONARY-OPERATING
HORIZONTAL MULL



E
6 DIRECT SET-OPERATING
HORIZONTAL MULL

- MULLION CONNECTION NOTES
- ASSEMBLIES SHOWN HEREIN, SHEET 6, MAY BE USED WITH DESIGN PRESSURE RATINGS SHOWN ON TABLE D.1: ONE WAY MULLIONS "1" SOLID SPREAD MULL" AND TABLE D.2: TWO WAY MULLIONS "1" SOLID SPREAD MULL".
 - REFER TO SHEET 8 FOR ANCHORAGE REQUIREMENTS.

TITLE: SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION
"3" SOLID SPREAD" MULLION ASSEMBLIES

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 |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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

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

FL #: **FL17868**

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **JW060**

SHEET: **6** OF 24

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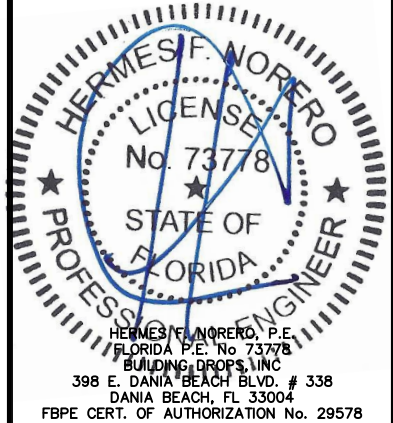
TITLE:
SITELINE OR W-5500 CLAD
CASEMENT /AWING MULLION
"4" SOLID SPREAD MULLION"
ASSEMBLIES

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 339-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



| REMARKS | BY | DATE |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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FL #:
FL17868

DATE: **09.01.17**

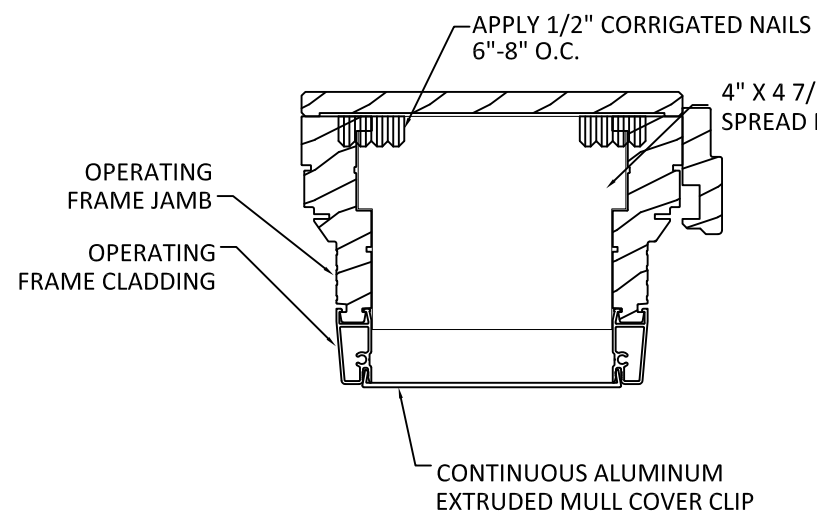
DWG. BY: **CL** CHK. BY: **HFN**

SCALE: **NTS**

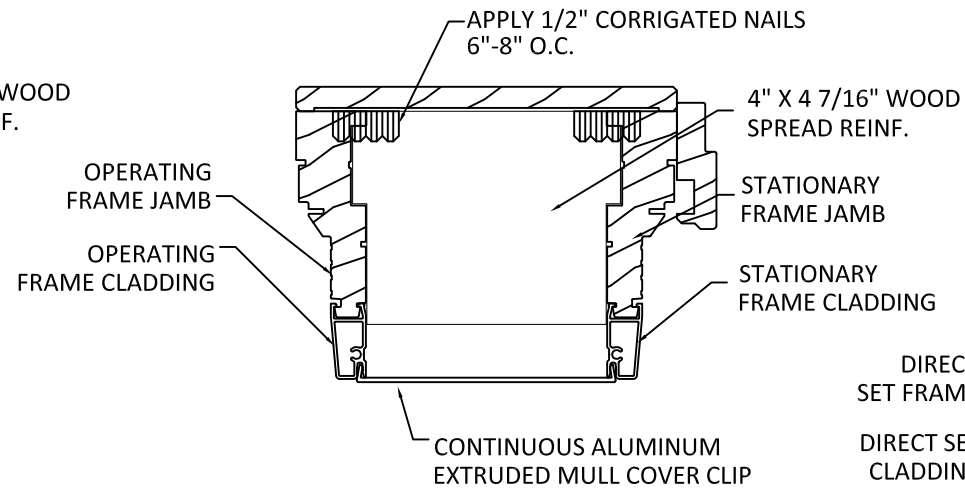
DWG. #: **JW060**

SHEET:

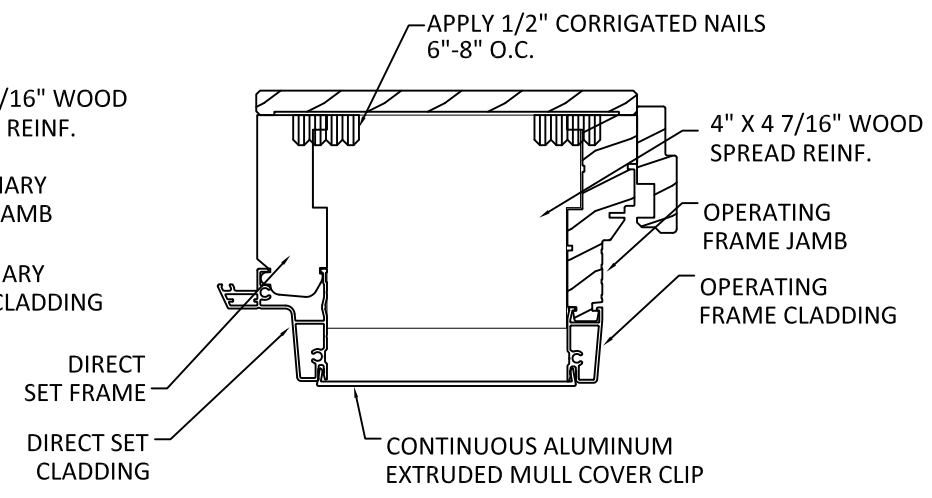
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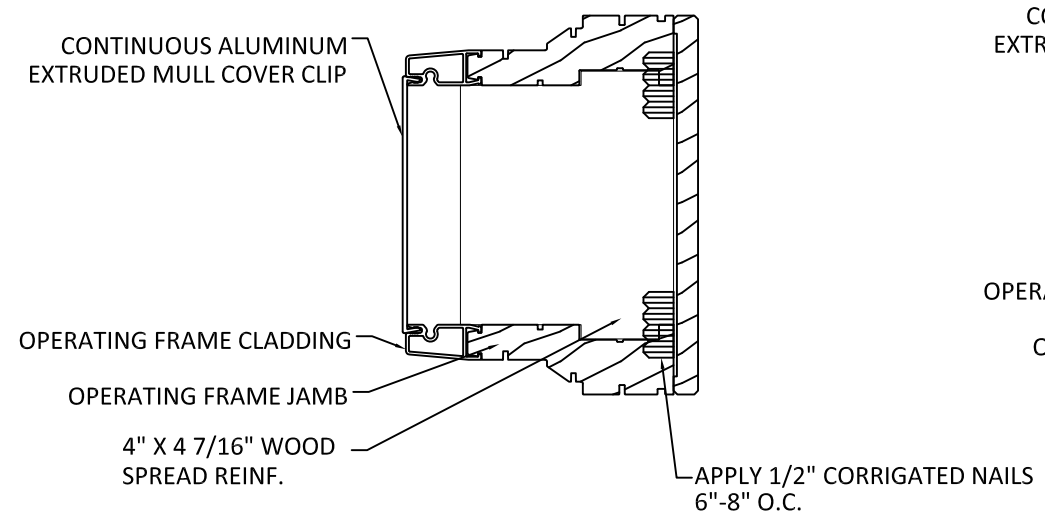
A
7
OPERATING-OPERATING
VERTICAL MULLION



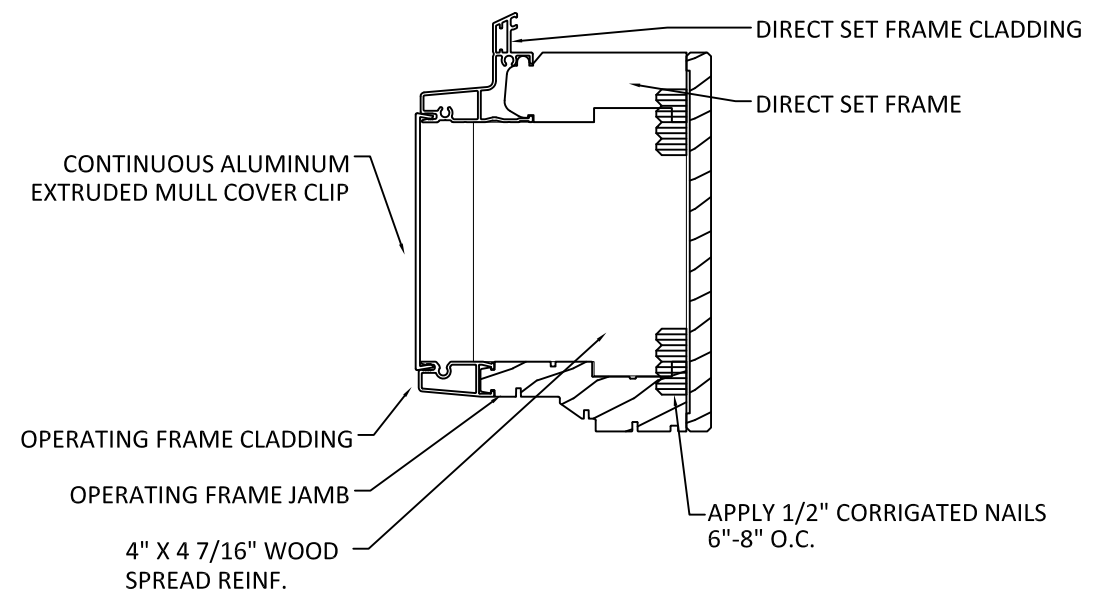
B
7
OPERATING-STATIONARY
VERTICAL MULLION



C
7
DIRECT SET-OPERATING
VERTICAL MULLION



D
7
STATIONARY-OPERATING
HORIZONTAL MULL



E
7
DIRECT SET-OPERATING
HORIZONTAL MULL

- MULLION CONNECTION NOTES**
- ASSEMBLIES SHOWN HEREIN, SHEET 7, MAY BE USED WITH DESIGN PRESSURE RATINGS SHOWN ON TABLE A.1: ONE WAY MULLIONS "JAMB TO JAMB MULL".
 - REFER TO SHEET 8 FOR ANCHORAGE REQUIREMENTS.

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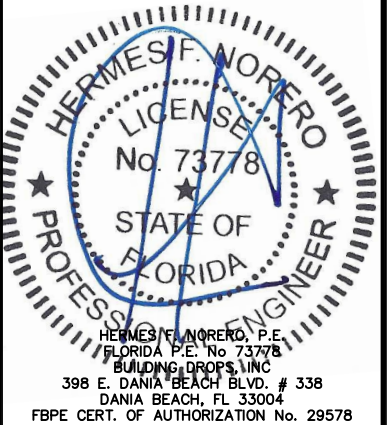
TITLE: SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION INSTALLATION CONDITIONS

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 |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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FL #: **FL17868**

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**

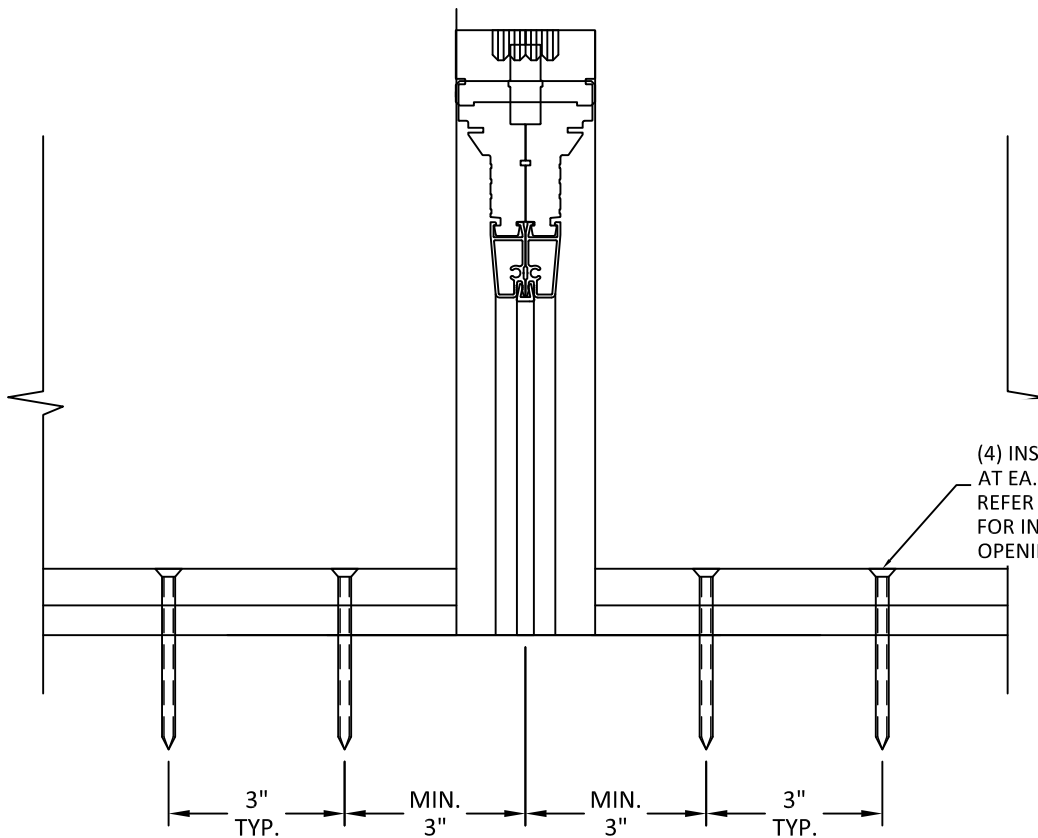
SCALE: **NTS**

DWG. #: **JW060**

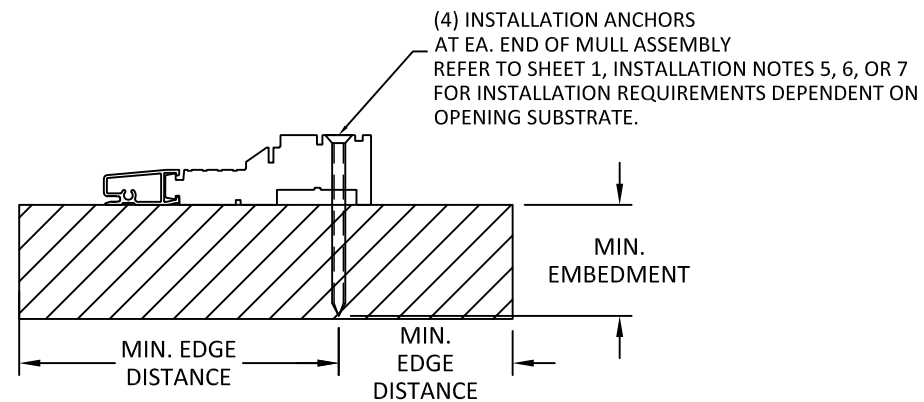
SHEET: **8**

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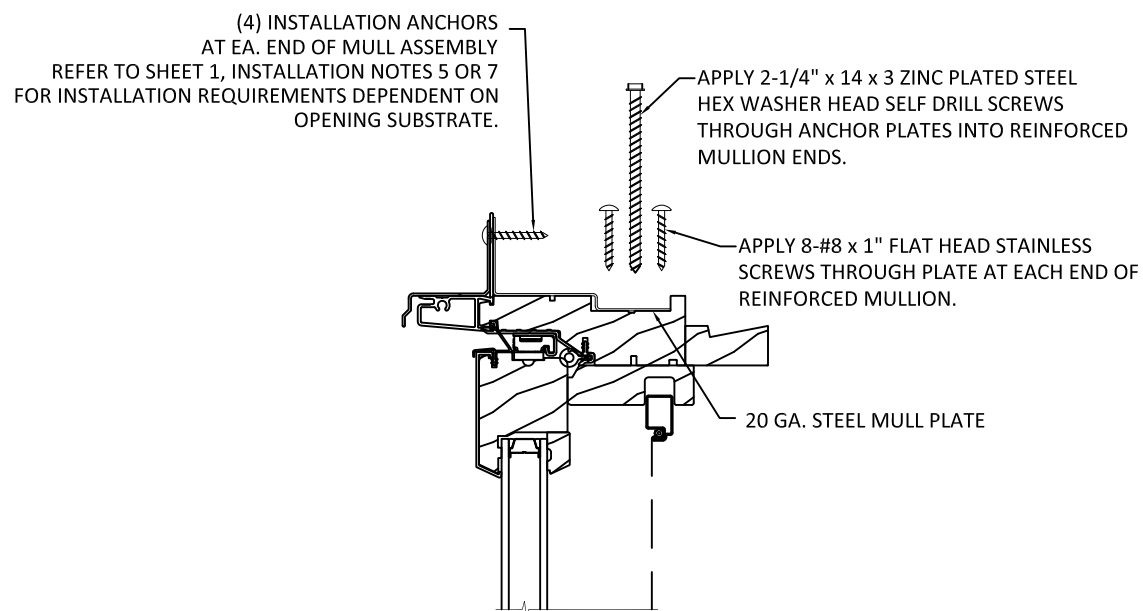
- MULLIONS MAY BE FASTENED AT EA. END THROUGH FRAME (DETAIL B/8) OR UTILIZING THROUGH NAIL FIN (DETAIL C/8) TYPE INSTALLATIONS.
- MULLION JOINING PLATE SHALL BE USED AT EA. END OF MULLION FOR ALL APPLICATIONS, SEE DETAIL D/8.



A
8 ENLARGED ELEVATION
TYPICAL INSTALLATION ANCHOR PATTERN

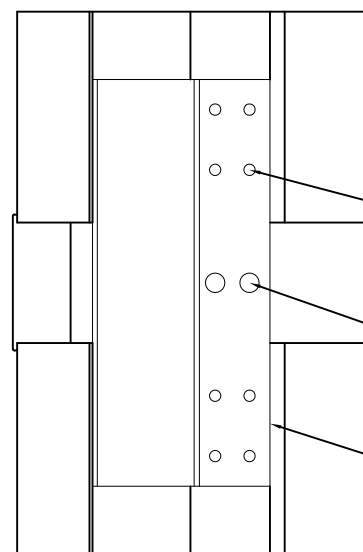


B
8 VERTICAL SECTION
TYPICAL INSTALLATION THROUGH FRAME

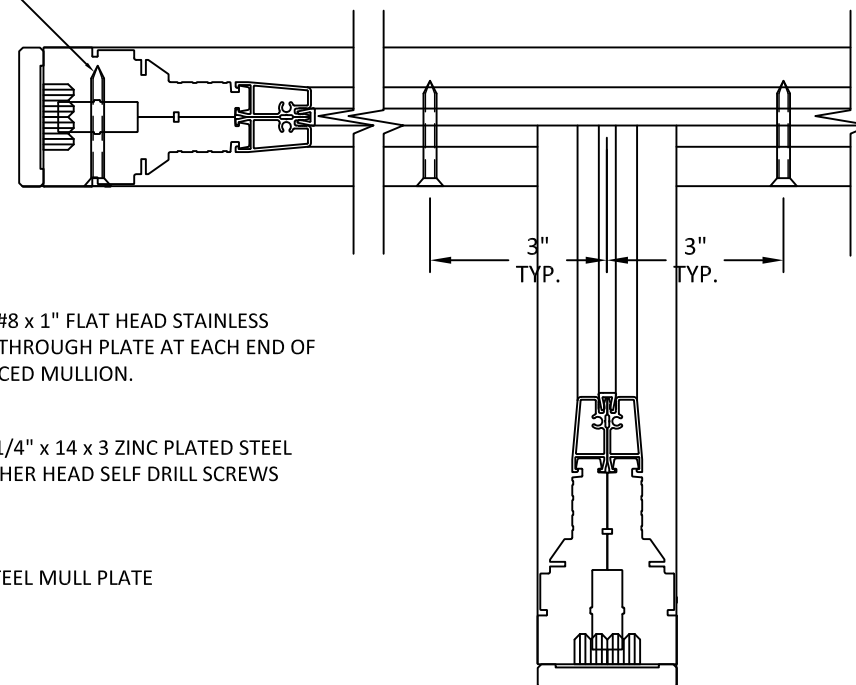


C
8 VERTICAL SECTION
TYPICAL INSTALLATION NAIL FIN

(2) #10 WOOD SCREWS, MIN. 5/8" EMBEDMENT, ADJACENT TO MULLIONS AT 'X' AND 'T' JOINTS



D
8 VERTICAL SECTION
TYPICAL INSTALLATION AT EA. END OF MULL



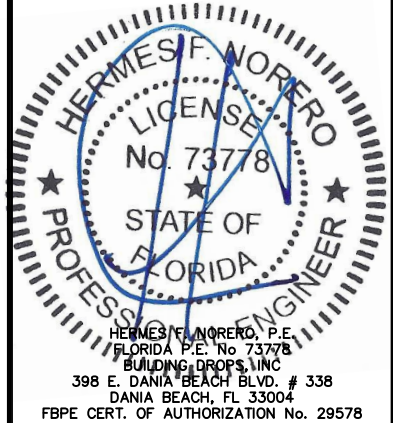
E
8 FRONT VIEW
OPTIONAL INSTALLATION AT EA. END OF 'X' AND 'T' MULL

TITLE: SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION
ONE WAY "JAMB TO JAMB" MULLION DP TABLE

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 |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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 #: **FL17868**

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **JW060**

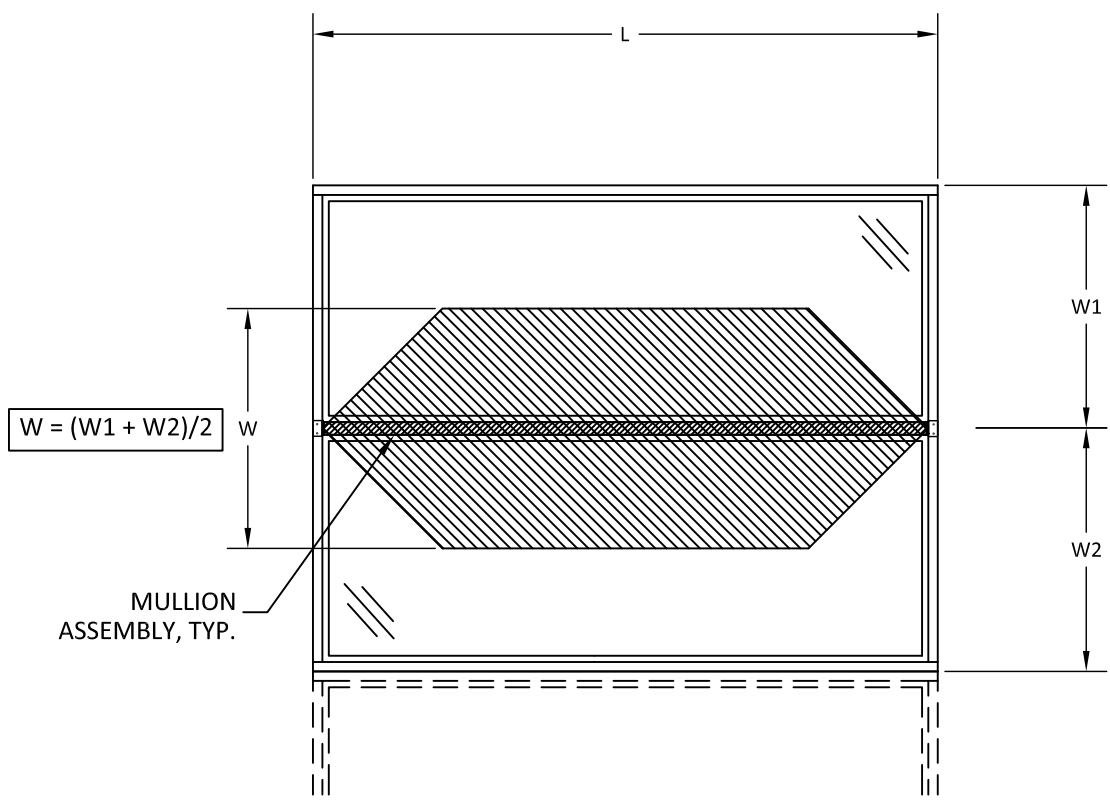
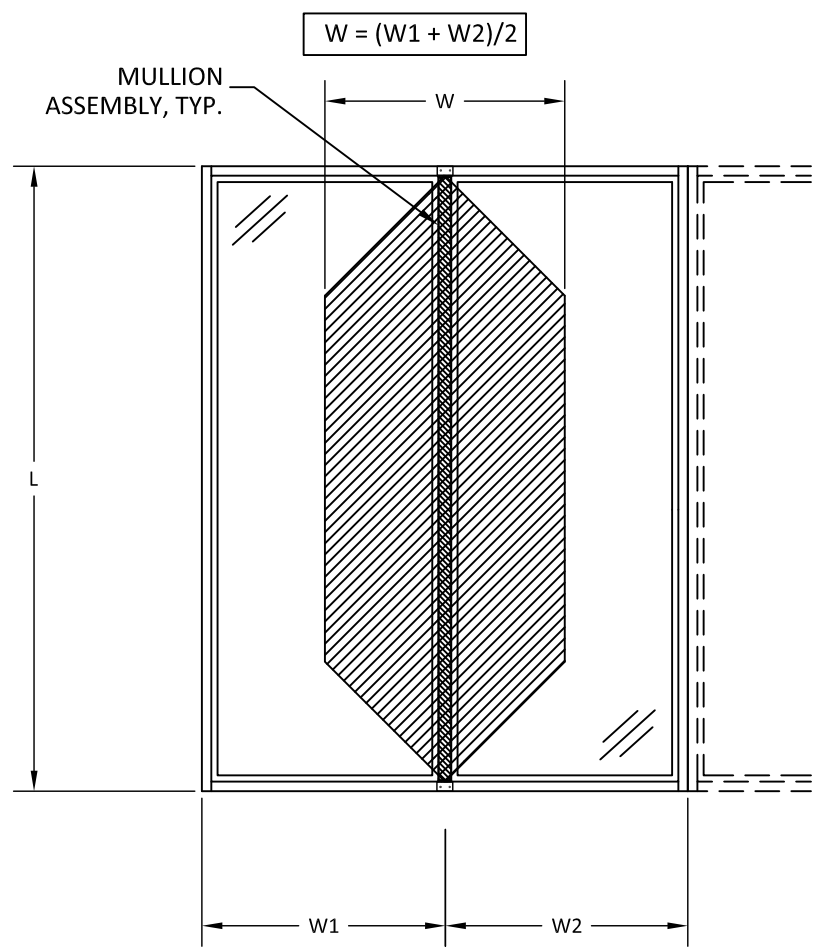
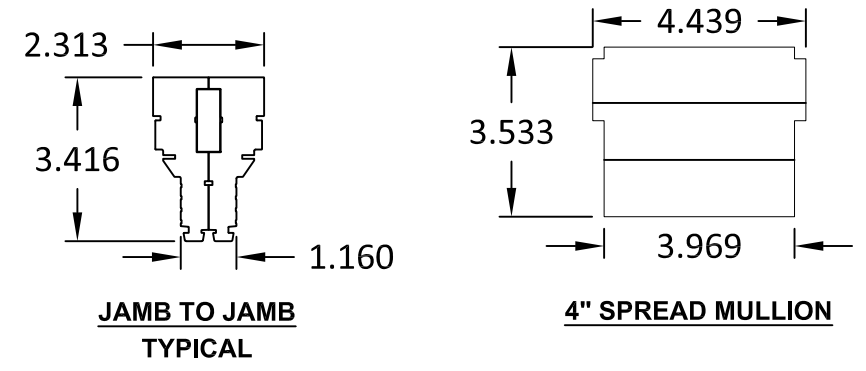
SHEET:

Maximum design pressure capacity chart (psf):

| L - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | |
|----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 48.0 | 100.0 | 100.0 | 94.9 | 86.5 | 80.0 | 75.1 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 |
| 54.0 | 95.3 | 82.8 | 73.6 | 66.7 | 61.3 | 57.1 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 |
| 60.0 | 76.6 | 66.4 | 58.9 | 53.1 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| 66.0 | 63.0 | 54.5 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 49.6 | 46.8 | 45.2 | 44.6 | 44.6 |
| 72.0 | 52.7 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 44.3 | 40.3 | 37.6 | 35.8 | 34.7 | 34.4 |
| 78.0 | 41.3 | 35.7 | 31.5 | 28.3 | 25.8 | 23.7 | 22.0 | 19.5 | 17.7 | 16.5 | 15.6 | 15.0 | - |
| 84.0 | 32.9 | 28.4 | 25.1 | 22.5 | 20.4 | 18.8 | 17.4 | 15.4 | - | - | - | - | - |
| 90.0 | 26.7 | 23.0 | 20.3 | 18.2 | 16.5 | 15.2 | - | - | - | - | - | - | - |
| 96.0 | 22.0 | 18.9 | 16.7 | - | - | - | - | - | - | - | - | - | - |
| 102.0 | 18.3 | 15.7 | - | - | - | - | - | - | - | - | - | - | - |
| 108.0 | 15.4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 114.0 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120.0 | - | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE A.1: ONE WAY MULLIONS "JAMB TO JAMB"

- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL RIBBON OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEETS 2 (JAMB TO JAMB) & 7 (4" SPREAD MULL) ONLY.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.



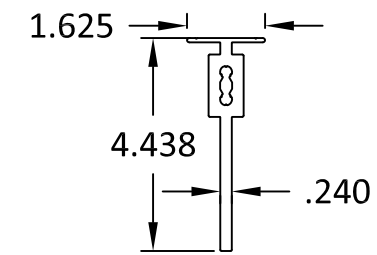
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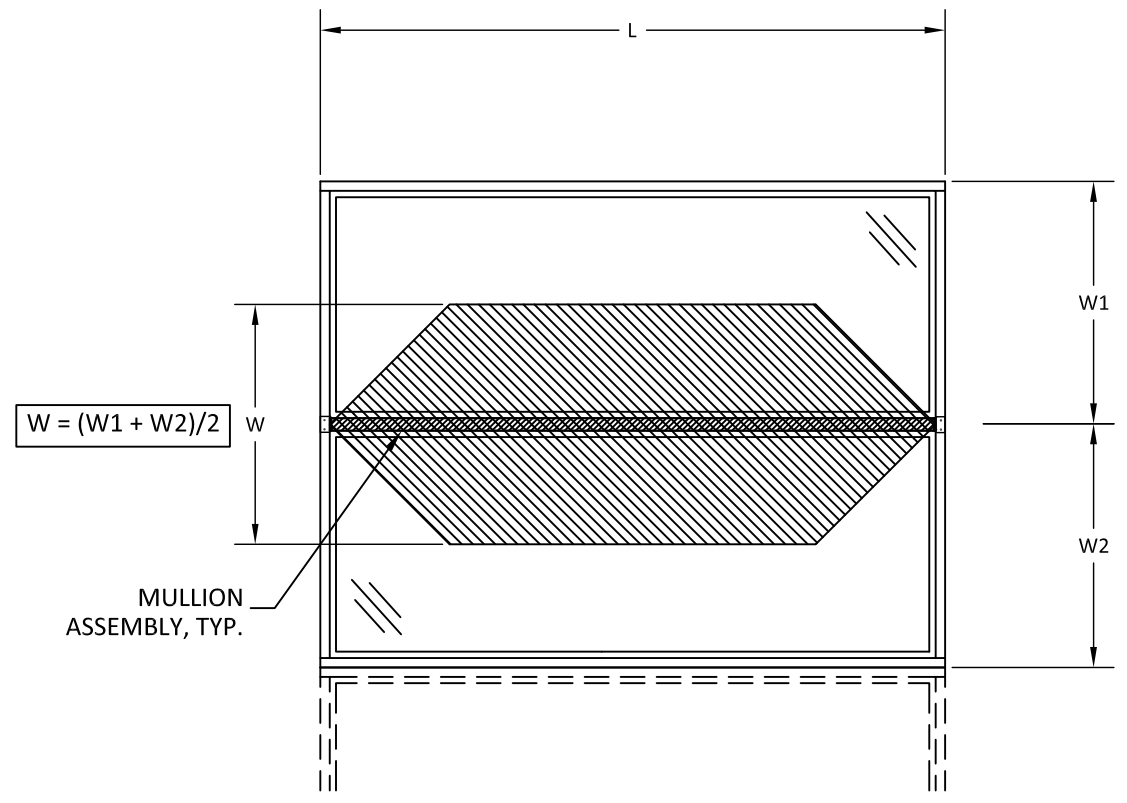
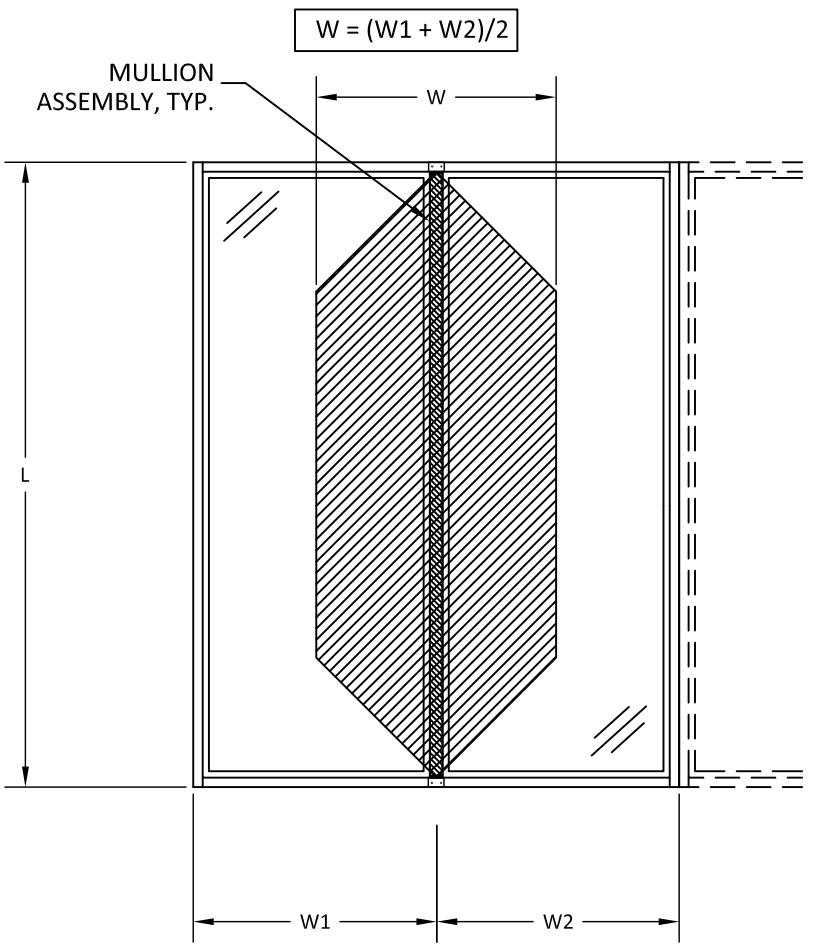
Maximum design pressure capacity chart (psf):

| L - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | |
|----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 54.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.1 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 |
| 60.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 95.6 | 89.5 | 80.7 | 75.1 | 72.0 | 71.0 | 71.0 | 71.0 |
| 66.0 | 100.0 | 100.0 | 100.0 | 92.0 | 84.0 | 77.5 | 72.3 | 64.5 | 59.3 | 55.9 | 54.0 | 53.3 | 53.3 |
| 72.0 | 100.0 | 96.6 | 85.3 | 76.6 | 69.7 | 64.2 | 59.7 | 52.9 | 48.2 | 44.9 | 42.7 | 41.5 | 41.1 |
| 78.0 | 95.0 | 82.0 | 72.3 | 64.8 | 58.9 | 54.1 | 50.2 | 44.2 | 40.0 | 37.0 | 34.9 | 33.4 | 32.6 |
| 84.0 | 81.7 | 70.4 | 62.0 | 55.6 | 50.4 | 46.3 | 42.8 | 37.6 | 33.8 | 31.1 | 29.1 | 27.6 | 26.6 |
| 90.0 | 71.1 | 61.2 | 53.9 | 48.2 | 43.7 | 40.0 | 37.0 | 32.4 | 29.0 | 26.5 | 24.7 | 23.3 | 22.3 |
| 96.0 | 62.3 | 53.7 | 47.2 | 42.2 | 38.2 | 35.0 | 32.3 | 28.2 | 25.2 | 22.9 | 21.2 | 19.9 | 18.9 |
| 102.0 | 55.2 | 47.5 | 41.7 | 37.3 | 33.7 | 30.8 | 28.5 | 24.8 | 22.1 | 20.1 | 18.5 | 17.3 | 16.3 |
| 108.0 | 49.1 | 42.3 | 37.1 | 33.1 | 30.0 | 27.4 | 25.3 | 22.0 | 19.5 | 17.7 | 16.3 | 15.2 | - |
| 114.0 | 44.1 | 37.9 | 33.3 | 29.7 | 26.8 | 24.5 | 22.6 | 19.6 | 17.4 | 15.7 | - | - | - |
| 120.0 | 39.7 | 34.2 | 30.0 | 26.7 | 24.2 | 22.1 | 20.3 | 17.6 | 15.6 | - | - | - | - |

- TABLE B.1: ONE WAY MULLIONS "1/4" STRUCTURAL MULLION"**
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL RIBBON OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
 - THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEET 3 ONLY.
 - WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
 - DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
 - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
 - INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.



1/4" STRUCTURAL ALUMINUM (6063-T5)



3737 LAKEPORT BLVD
KLAMATH FALLS, OR 97601
PH: (541) 882-3451 FAX: (541) 850-2609

TITLE: SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION
ONE WAY "1/4" STRUCTURAL MULLION"

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 |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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

FL #: **FL17868**

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **JW060**

SHEET: **10** OF **24**

TITLE: **SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION**

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)

W - Tributary Width (in)

| L1 - Mull Length (in) | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 |
| 54.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 85.3 | 78.2 |
| 60.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.5 | 76.8 |
| 66.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 85.3 | 76.8 | 69.8 |
| 72.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 88.0 | 78.2 | 70.4 | 64.0 | 58.6 |
| 78.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 92.8 | 81.2 | 72.2 | 65.0 | 59.1 | 54.1 |
| 84.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 86.2 | 75.4 | 67.0 | 60.3 | 54.8 | 50.3 |
| 90.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 80.4 | 70.4 | 62.6 | 56.3 | 51.2 | 46.9 |
| 96.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 | 75.4 | 66.0 | 58.6 | 52.8 | 48.0 | 44.0 |
| 102.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.4 | 90.3 | 82.8 | 71.0 | 62.1 | 55.2 | 49.7 | 45.2 | 41.4 |
| 108.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 85.3 | 78.2 | 67.0 | 58.6 | 52.1 | 46.9 | 42.7 | 39.1 |
| 114.0 | 100.0 | 100.0 | 100.0 | 95.3 | 85.8 | 78.0 | 71.5 | 61.3 | 53.6 | 47.7 | 42.9 | 39.0 | 35.7 |
| 120.0 | 100.0 | 100.0 | 91.9 | 81.7 | 73.5 | 66.9 | 61.3 | 52.5 | 46.0 | 40.9 | 36.8 | 33.4 | 30.6 |

TABLE B.2: TWO WAY MULLIONS "1/4" STRUCTURAL MULLION" CONTINUOUS

- "TWO-WAY" MULLIONS REFER TO 'X' TYPE ASSEMBLIES FOR CONFIGURATIONS DIAGRAMMED ON THIS SHEET.
- THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEET 3 ONLY.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

Maximum design pressure capacity chart (psf):

P - Tributary Width (in)

| L2 - Mull Length (in) | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 94.9 | 90.1 | 86.8 | 84.5 | 83.2 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| 48.0 | 92.7 | 84.5 | 78.4 | 73.7 | 70.2 | 67.6 | 65.7 | 64.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 |
| 54.0 | 79.9 | 72.4 | 66.8 | 62.4 | 59.0 | 56.3 | 54.3 | 52.7 | 50.7 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 |
| 60.0 | 76.4 | 69.1 | 63.6 | 59.4 | 56.0 | 53.4 | 51.3 | 49.7 | 47.5 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 66.0 | 70.2 | 63.4 | 58.2 | 54.1 | 50.9 | 48.3 | 46.2 | 44.6 | 42.3 | 41.0 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 |
| 72.0 | 62.6 | 56.3 | 51.5 | 47.7 | 44.7 | 42.3 | 40.3 | 38.6 | 36.2 | 34.7 | 33.8 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 |
| 78.0 | 56.5 | 50.7 | 46.2 | 42.7 | 39.9 | 37.6 | 35.7 | 34.1 | 31.7 | 30.0 | 29.0 | 28.4 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 |
| 84.0 | 51.5 | 46.1 | 41.9 | 38.6 | 36.0 | 33.8 | 32.0 | 30.5 | 28.2 | 26.5 | 25.4 | 24.6 | 24.1 | 24.0 | 24.0 | 24.0 | 24.0 |
| 90.0 | 47.3 | 42.3 | 38.4 | 35.3 | 32.8 | 30.7 | 29.0 | 27.6 | 25.4 | 23.7 | 22.5 | 21.7 | 21.1 | 20.8 | 20.7 | 20.7 | 20.7 |
| 96.0 | 43.7 | 39.0 | 35.3 | 32.4 | 30.1 | 28.2 | 26.6 | 25.2 | 23.0 | 21.5 | 20.3 | 19.4 | 18.8 | 18.4 | 18.1 | 18.0 | 18.0 |
| 102.0 | 40.7 | 36.2 | 32.8 | 30.0 | 27.8 | 26.0 | 24.5 | 23.2 | 21.1 | 19.6 | 18.4 | 17.6 | 16.9 | 16.4 | 16.1 | 15.9 | 15.8 |
| 108.0 | 38.0 | 33.8 | 30.6 | 28.0 | 25.9 | 24.1 | 22.7 | 21.5 | 19.5 | 18.0 | 16.9 | 16.0 | 15.4 | - | - | - | - |
| 114.0 | 35.7 | 31.7 | 28.6 | 26.2 | 24.2 | 22.5 | 21.2 | 20.0 | 18.1 | 16.7 | 15.6 | - | - | - | - | - | - |
| 120.0 | 33.6 | 29.8 | 26.9 | 24.6 | 22.7 | 21.1 | 19.8 | 18.7 | 16.9 | 15.5 | - | - | - | - | - | - | - |

TABLE B.3: DISCONTINUOUS MULLION

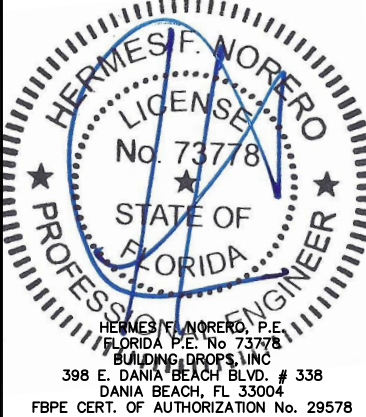
- THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'X' INTERSECTIONS.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

INSTRUCTION NOTE:

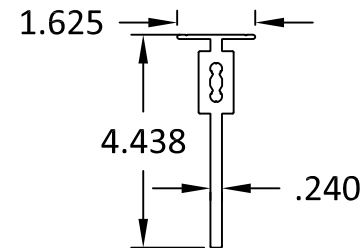
- L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
- W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
- L2 IS SPAN FOR DISCONTINUOUS MULLION.
- P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION.
- THE LESSER OF TABLE B.2 AND B.3 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE

| REMARKS | BY | DATE |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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

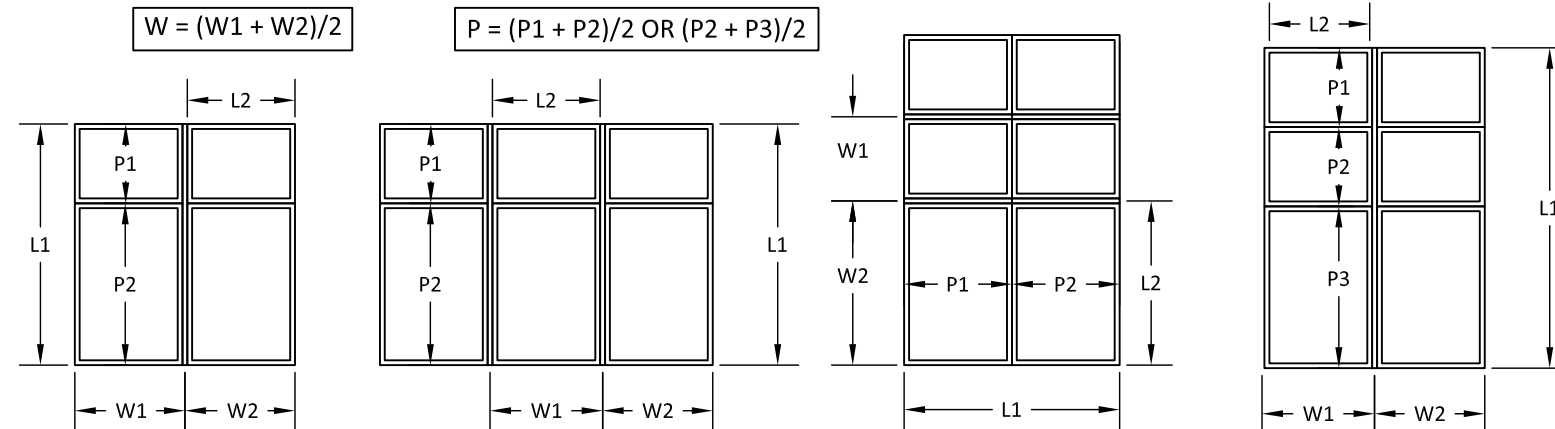


| | |
|----------|-----------------|
| FL #: | FL17868 |
| DATE: | 09.01.17 |
| DWG. BY: | CL |
| CHK. BY: | HFN |
| SCALE: | NTS |
| DWG. #: | JW060 |
| SHEET: | 11 |



1/4" STRUCTURAL ALUMINUM (6063-T5)

QUALIFIED CONFIGURATIONS



| Maximum design pressure capacity chart (psf) | | | | | | | | | | | | | |
|--|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | |
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 |
| 54.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 85.3 | 78.2 |
| 60.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.5 | 76.8 | 70.4 |
| 66.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 85.3 | 76.8 | 69.8 | 64.0 |
| 72.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 88.0 | 78.2 | 70.4 | 64.0 | 58.6 |
| 78.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 92.8 | 81.2 | 72.2 | 65.0 | 59.1 | 54.1 |
| 84.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 86.2 | 75.4 | 67.0 | 60.3 | 54.8 | 50.3 |
| 90.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 80.4 | 70.4 | 62.6 | 56.3 | 51.2 | 46.9 |
| 96.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 | 75.4 | 66.0 | 58.6 | 52.8 | 48.0 | 44.0 |
| 102.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.4 | 90.3 | 82.8 | 71.0 | 62.1 | 55.2 | 49.7 | 45.2 | 41.4 |
| 108.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 85.3 | 78.2 | 67.0 | 58.6 | 52.1 | 46.9 | 42.7 | 39.1 |
| 114.0 | 100.0 | 100.0 | 100.0 | 95.3 | 85.8 | 78.0 | 71.5 | 61.3 | 53.6 | 47.7 | 42.9 | 39.0 | 35.7 |
| 120.0 | 100.0 | 100.0 | 91.9 | 81.7 | 73.5 | 66.9 | 61.3 | 52.5 | 46.0 | 40.9 | 36.8 | 33.4 | 30.6 |

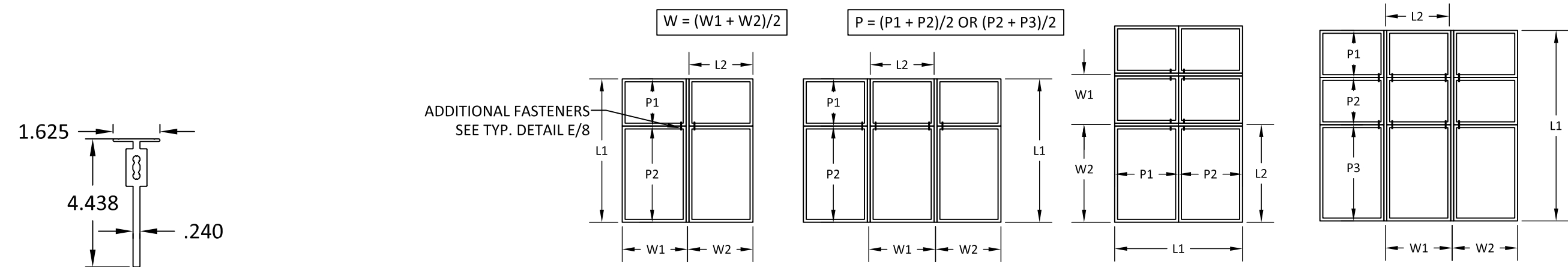
| Maximum design pressure capacity chart (psf): | | | | | | | | | | | | | | | | | |
|---|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L2 - Mull Length (in) | P - Tributary Width (in) | | | | | | | | | | | | | | | | |
| | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.1 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 |
| 54.0 | 100.0 | 100.0 | 100.0 | 95.1 | 89.9 | 85.8 | 82.7 | 80.2 | 77.2 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 |
| 56.0 | 100.0 | 100.0 | 96.9 | 90.4 | 85.3 | 81.3 | 78.1 | 75.7 | 72.4 | 71.0 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 |
| 60.0 | 100.0 | 96.5 | 88.6 | 82.4 | 77.5 | 73.6 | 70.4 | 67.9 | 64.4 | 62.4 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 |
| 66.0 | 95.4 | 85.8 | 78.5 | 72.7 | 68.1 | 64.4 | 61.3 | 58.8 | 55.2 | 52.8 | 51.5 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 |
| 72.0 | 86.1 | 77.2 | 70.4 | 65.0 | 60.7 | 57.2 | 54.3 | 51.9 | 48.3 | 45.8 | 44.1 | 43.2 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 |
| 78.0 | 78.5 | 70.2 | 63.9 | 58.8 | 54.8 | 51.5 | 48.7 | 46.5 | 42.9 | 40.4 | 38.6 | 37.4 | 36.8 | 36.6 | 36.6 | 36.6 | 36.6 |
| 84.0 | 72.1 | 64.4 | 58.4 | 53.7 | 49.9 | 46.8 | 44.2 | 42.0 | 38.6 | 36.1 | 34.3 | 33.0 | 32.2 | 31.7 | 31.5 | 31.5 | 31.5 |
| 90.0 | 66.6 | 59.4 | 53.8 | 49.4 | 45.9 | 42.9 | 40.4 | 38.4 | 35.1 | 32.7 | 30.9 | 29.6 | 28.6 | 28.0 | 27.6 | 27.5 | 27.5 |
| 96.0 | 61.9 | 55.2 | 49.9 | 45.8 | 42.4 | 39.6 | 37.3 | 35.3 | 32.2 | 29.8 | 28.1 | 26.7 | 25.7 | 25.0 | 24.5 | 24.2 | 24.1 |
| 102.0 | 57.9 | 51.5 | 46.5 | 42.6 | 39.4 | 36.8 | 34.6 | 32.7 | 29.7 | 27.5 | 25.7 | 24.4 | 23.4 | 22.6 | 22.1 | 21.7 | 21.5 |
| 108.0 | 54.3 | 48.3 | 43.6 | 39.9 | 36.8 | 34.3 | 32.2 | 30.4 | 27.6 | 25.4 | 23.8 | 22.5 | 21.5 | 20.7 | 20.1 | 19.6 | 19.3 |
| 114.0 | 51.2 | 45.4 | 41.0 | 37.4 | 34.6 | 32.2 | 30.2 | 28.5 | 25.7 | 23.7 | 22.1 | 20.8 | 19.8 | 19.0 | 18.4 | 17.9 | 17.6 |
| 120.0 | 48.4 | 42.9 | 38.7 | 35.3 | 32.6 | 30.3 | 28.4 | 26.7 | 24.1 | 22.1 | 20.6 | 19.4 | 18.4 | 17.6 | 17.0 | 16.5 | 16.1 |

- TABLE B.4: TWO WAY MULLIONS "1/4" STRUCTURAL MULLION" CONTINUOUS**
- 'TWO-WAY' MULLIONS REFER TO 'X' TYPE ASSEMBLIES FOR CONFIGURATIONS DIAGRAMMED ON THIS SHEET.
 - THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEET 3 ONLY.
 - WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
 - DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
 - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
 - INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

- TABLE B.5: DISCONTINUOUS MULLION WITH ADDITIONAL FASTENERS**
- THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'X' INTERSECTIONS WITH USE OF ADDITIONAL FASTENERS THROUGH FRAME, REFER TO DETAIL E/8 FOR INSTALLATION OF FASTENERS ADJACENT TO 'X' INTERSECTIONS.
 - WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
 - DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
 - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
 - INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

- INSTRUCTION NOTE:**
- L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
 - W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
 - L2 IS SPAN FOR DISCONTINUOUS MULLION.
 - P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION. TAKE MAXIMUM PANEL WIDTH, 'P'.
 - THE LESSER OF TABLE B.4 AND B.5 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE

QUALIFIED CONFIGURATIONS



1/4" STRUCTURAL ALUMINUM (6063-T5)



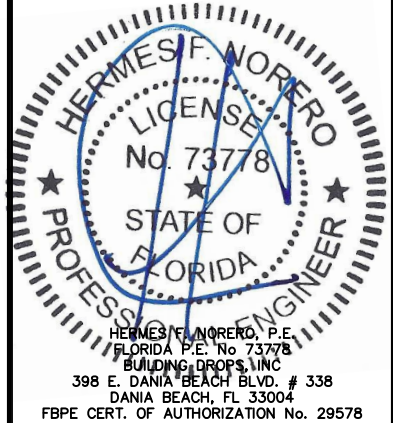
3737 LAKEPORT BLVD
KLAMATH FALLS, OR 97601
PH: (541) 882-3451 FAX: (541) 850-2609

TITLE: SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION 'X' CONFIG. "1/4" STRUCTURAL MULLION"

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 |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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 #:

FL17868

DATE: **09.01.17**

| | |
|--------------------|---------------------|
| DWG. BY: CL | CHK. BY: HFN |
|--------------------|---------------------|

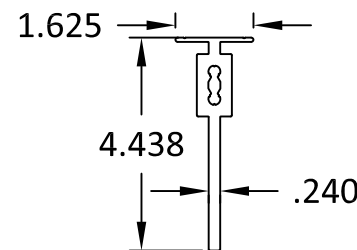
SCALE: **NTS**

DWG. #: **JW060**

SHEET:

| L1 - Mull Length (in) | Maximum design pressure capacity chart (psf) | | | | | | | | | | | | |
|-----------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | W - Tributary Width (in) | | | | | | | | | | | | |
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.5 | 76.8 | 70.4 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 88.0 | 78.2 | 70.4 | 64.0 | 58.6 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 86.2 | 75.4 | 67.0 | 60.3 | 54.8 | 50.3 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 | 75.4 | 66.0 | 58.6 | 52.8 | 48.0 | 44.0 |
| 54.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 85.3 | 78.2 | 67.0 | 58.6 | 52.1 | 46.9 | 42.7 | 39.1 |
| 60.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.5 | 76.8 | 70.4 | 60.3 | 52.8 | 46.9 | 42.2 | 38.4 | 35.2 |
| 66.0 | 100.0 | 100.0 | 96.0 | 85.3 | 76.8 | 69.8 | 64.0 | 54.8 | 48.0 | 42.7 | 38.4 | 34.9 | 32.0 |
| 72.0 | 100.0 | 100.0 | 88.0 | 78.2 | 70.4 | 64.0 | 58.6 | 50.3 | 44.0 | 39.1 | 35.2 | 32.0 | 29.3 |
| 78.0 | 100.0 | 92.8 | 81.2 | 72.2 | 65.0 | 59.1 | 54.1 | 46.4 | 40.6 | 36.1 | 32.5 | 29.5 | 27.1 |
| 84.0 | 100.0 | 85.8 | 75.1 | 66.8 | 60.1 | 54.6 | 50.1 | 42.9 | 37.6 | 33.4 | 30.0 | 27.3 | 25.0 |
| 90.0 | 87.2 | 74.8 | 65.4 | 58.2 | 52.3 | 47.6 | 43.6 | 37.4 | 32.7 | 29.1 | 26.2 | 23.8 | 21.8 |
| 96.0 | 76.7 | 65.7 | 57.5 | 51.1 | 46.0 | 41.8 | 38.3 | 32.9 | 28.8 | 25.6 | 23.0 | 20.9 | 19.2 |
| 102.0 | 67.9 | 58.2 | 50.9 | 45.3 | 40.7 | 37.0 | 34.0 | 29.1 | 25.5 | 22.6 | 20.4 | 18.5 | 17.0 |
| 108.0 | 60.6 | 51.9 | 45.4 | 40.4 | 36.3 | 33.0 | 30.3 | 26.0 | 22.7 | 20.2 | 18.2 | 16.5 | 15.1 |
| 114.0 | 54.4 | 46.6 | 40.8 | 36.2 | 32.6 | 29.7 | 27.2 | 23.3 | 20.4 | 18.1 | 16.3 | - | - |
| 120.0 | 48.0 | 41.1 | 36.0 | 32.0 | 28.8 | 26.2 | 24.0 | 20.6 | 18.0 | 16.0 | - | - | - |

| L2 - Mull Length (in) | Maximum design pressure capacity chart (psf): | | | | | | | | | | | | | | | | |
|-----------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | P - Tributary Width (in) | | | | | | | | | | | | | | | | |
| | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 94.9 | 90.1 | 86.8 | 84.5 | 83.2 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| 48.0 | 92.7 | 84.5 | 78.4 | 73.7 | 70.2 | 67.6 | 65.7 | 64.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 |
| 54.0 | 79.9 | 72.4 | 66.8 | 62.4 | 59.0 | 56.3 | 54.3 | 52.7 | 50.7 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 |
| 56.0 | 76.4 | 69.1 | 63.6 | 59.4 | 56.0 | 53.4 | 51.3 | 49.7 | 47.5 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 60.0 | 70.2 | 63.4 | 58.2 | 54.1 | 50.9 | 48.3 | 46.2 | 44.6 | 42.3 | 41.0 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 |
| 66.0 | 62.6 | 56.3 | 51.5 | 47.7 | 44.7 | 42.3 | 40.3 | 38.6 | 36.2 | 34.7 | 33.8 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 |
| 72.0 | 56.5 | 50.7 | 46.2 | 42.7 | 39.9 | 37.6 | 35.7 | 34.1 | 31.7 | 30.0 | 29.0 | 28.4 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 |
| 78.0 | 51.5 | 46.1 | 41.9 | 38.6 | 36.0 | 33.8 | 32.0 | 30.5 | 28.2 | 26.5 | 25.4 | 24.6 | 24.1 | 24.0 | 24.0 | 24.0 | 24.0 |
| 84.0 | 47.3 | 42.3 | 38.4 | 35.3 | 32.8 | 30.7 | 29.0 | 27.6 | 25.4 | 23.7 | 22.5 | 21.7 | 21.1 | 20.8 | 20.7 | 20.7 | 20.7 |
| 90.0 | 43.7 | 39.0 | 35.3 | 32.4 | 30.1 | 28.2 | 26.6 | 25.2 | 23.0 | 21.5 | 20.3 | 19.4 | 18.8 | 18.4 | 18.1 | 18.0 | 18.0 |
| 96.0 | 40.7 | 36.2 | 32.8 | 30.0 | 27.8 | 26.0 | 24.5 | 23.2 | 21.1 | 19.6 | 18.4 | 17.6 | 16.9 | 16.4 | 16.1 | 15.9 | 15.8 |
| 102.0 | 38.0 | 33.8 | 30.6 | 28.0 | 25.9 | 24.1 | 22.7 | 21.5 | 19.5 | 18.0 | 16.9 | 16.0 | 15.4 | - | - | - | - |
| 108.0 | 35.7 | 31.7 | 28.6 | 26.2 | 24.2 | 22.5 | 21.2 | 20.0 | 18.1 | 16.7 | 15.6 | - | - | - | - | - | - |
| 114.0 | 33.6 | 29.8 | 26.9 | 24.6 | 22.7 | 21.1 | 19.8 | 18.7 | 16.9 | 15.5 | - | - | - | - | - | - | - |
| 120.0 | 31.7 | 28.2 | 25.4 | 23.2 | 21.4 | 19.9 | 18.6 | 17.6 | 15.8 | - | - | - | - | - | - | - | - |



1/4" STRUCTURAL ALUMINUM (6063-T5)

TABLE B.6: TWO WAY MULLIONS "1/4" STRUCTURAL MULLION" CONTINUOUS

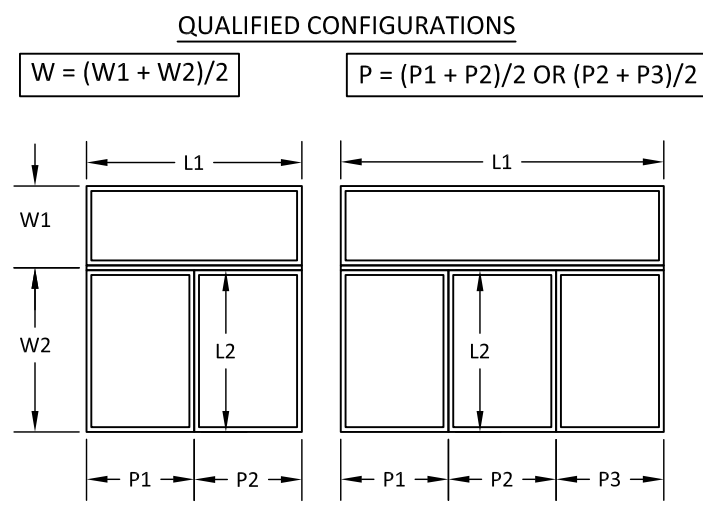
- 'TWO-WAY' MULLIONS REFER TO 'T' TYPE ASSEMBLIES FOR CONFIGURATIONS DIAGRAMMED ON THIS SHEET.
- THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEET 3 ONLY.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

TABLE B.7: DISCONTINUOUS MULLION

- THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'T' INTERSECTIONS.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

INSTRUCTION NOTE:

- L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
- W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
- L2 IS SPAN FOR DISCONTINUOUS MULLION.
- P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION. TAKE MAXIMUM PANEL WIDTH, 'P'.
- THE LESSER OF TABLE B.6 AND B.7 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE



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PH: (541) 882-3451 FAX: (541) 850-2609

TITLE: SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION
"T" CONFIG. "1/4" STRUCTURAL MULLION"

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

| REMARKS | BY | DATE |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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

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

FL #: **FL17868**

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**

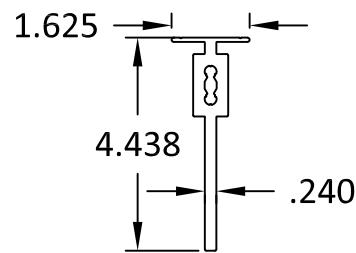
SCALE: **NTS**

DWG. #: **JW060**

SHEET: **13** OF 24

| Maximum design pressure capacity chart (psf) | | | | | | | | | | | | | |
|--|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| L1 - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | |
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.5 | 76.8 | 70.4 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 88.0 | 78.2 | 70.4 | 64.0 | 58.6 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 86.2 | 75.4 | 67.0 | 60.3 | 54.8 | 50.3 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 | 75.4 | 66.0 | 58.6 | 52.8 | 48.0 | 44.0 |
| 54.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 85.3 | 78.2 | 67.0 | 58.6 | 52.1 | 46.9 | 42.7 | 39.1 |
| 60.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.5 | 76.8 | 70.4 | 60.3 | 52.8 | 46.9 | 42.2 | 38.4 | 35.2 |
| 66.0 | 100.0 | 100.0 | 96.0 | 85.3 | 76.8 | 69.8 | 64.0 | 54.8 | 48.0 | 42.7 | 38.4 | 34.9 | 32.0 |
| 72.0 | 100.0 | 100.0 | 88.0 | 78.2 | 70.4 | 64.0 | 58.6 | 50.3 | 44.0 | 39.1 | 35.2 | 32.0 | 29.3 |
| 78.0 | 100.0 | 92.8 | 81.2 | 72.2 | 65.0 | 59.1 | 54.1 | 46.4 | 40.6 | 36.1 | 32.5 | 29.5 | 27.1 |
| 84.0 | 100.0 | 85.8 | 75.1 | 66.8 | 60.1 | 54.6 | 50.1 | 42.9 | 37.6 | 33.4 | 30.0 | 27.3 | 25.0 |
| 90.0 | 87.2 | 74.8 | 65.4 | 58.2 | 52.3 | 47.6 | 43.6 | 37.4 | 32.7 | 29.1 | 26.2 | 23.8 | 21.8 |
| 96.0 | 76.7 | 65.7 | 57.5 | 51.1 | 46.0 | 41.8 | 38.3 | 32.9 | 28.8 | 25.6 | 23.0 | 20.9 | 19.2 |
| 102.0 | 67.9 | 58.2 | 50.9 | 45.3 | 40.7 | 37.0 | 34.0 | 29.1 | 25.5 | 22.6 | 20.4 | 18.5 | 17.0 |
| 108.0 | 60.6 | 51.9 | 45.4 | 40.4 | 36.3 | 33.0 | 30.3 | 26.0 | 22.7 | 20.2 | 18.2 | 16.5 | 15.1 |
| 114.0 | 54.4 | 46.6 | 40.8 | 36.2 | 32.6 | 29.7 | 27.2 | 23.3 | 20.4 | 18.1 | 16.3 | - | - |
| 120.0 | 48.0 | 41.1 | 36.0 | 32.0 | 28.8 | 26.2 | 24.0 | 20.6 | 18.0 | 16.0 | - | - | - |

| Maximum design pressure capacity chart (psf): | | | | | | | | | | | | | | | | | |
|---|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L2 - Mull Length (in) | P - Tributary Width (in) | | | | | | | | | | | | | | | | |
| | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.1 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 |
| 54.0 | 100.0 | 100.0 | 100.0 | 95.1 | 89.9 | 85.8 | 82.7 | 80.2 | 77.2 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 |
| 56.0 | 100.0 | 100.0 | 96.9 | 90.4 | 85.3 | 81.3 | 78.1 | 75.7 | 72.4 | 71.0 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 |
| 60.0 | 100.0 | 96.5 | 88.6 | 82.4 | 77.5 | 73.6 | 70.4 | 67.9 | 64.4 | 62.4 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 |
| 66.0 | 95.4 | 85.8 | 78.5 | 72.7 | 68.1 | 64.4 | 61.3 | 58.8 | 55.2 | 52.8 | 51.5 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 |
| 72.0 | 86.1 | 77.2 | 70.4 | 65.0 | 60.7 | 57.2 | 54.3 | 51.9 | 48.3 | 45.8 | 44.1 | 43.2 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 |
| 78.0 | 78.5 | 70.2 | 63.9 | 58.8 | 54.8 | 51.5 | 48.7 | 46.5 | 42.9 | 40.4 | 38.6 | 37.4 | 36.8 | 36.6 | 36.6 | 36.6 | 36.6 |
| 84.0 | 72.1 | 64.4 | 58.4 | 53.7 | 49.9 | 46.8 | 44.2 | 42.0 | 38.6 | 36.1 | 34.3 | 33.0 | 32.2 | 31.7 | 31.5 | 31.5 | 31.5 |
| 90.0 | 66.6 | 59.4 | 53.8 | 49.4 | 45.9 | 42.9 | 40.4 | 38.4 | 35.1 | 32.7 | 30.9 | 29.6 | 28.6 | 28.0 | 27.6 | 27.5 | 27.5 |
| 96.0 | 61.9 | 55.2 | 49.9 | 45.8 | 42.4 | 39.6 | 37.3 | 35.3 | 32.2 | 29.8 | 28.1 | 26.7 | 25.7 | 25.0 | 24.5 | 24.2 | 24.1 |
| 102.0 | 57.9 | 51.5 | 46.5 | 42.6 | 39.4 | 36.8 | 34.6 | 32.7 | 29.7 | 27.5 | 25.7 | 24.4 | 23.4 | 22.6 | 22.1 | 21.7 | 21.5 |
| 108.0 | 54.3 | 48.3 | 43.6 | 39.9 | 36.8 | 34.3 | 32.2 | 30.4 | 27.6 | 25.4 | 23.8 | 22.5 | 21.5 | 20.7 | 20.1 | 19.6 | 19.3 |
| 114.0 | 51.2 | 45.4 | 41.0 | 37.4 | 34.6 | 32.2 | 30.2 | 28.5 | 25.7 | 23.7 | 22.1 | 20.8 | 19.8 | 19.0 | 18.4 | 17.9 | 17.6 |
| 120.0 | 48.4 | 42.9 | 38.7 | 35.3 | 32.6 | 30.3 | 28.4 | 26.7 | 24.1 | 22.1 | 20.6 | 19.4 | 18.4 | 17.6 | 17.0 | 16.5 | 16.1 |



1/4" STRUCTURAL ALUMINUM (6063-T5)

TABLE B.8: TWO WAY MULLIONS "1/4" STRUCTURAL MULLION" CONTINUOUS

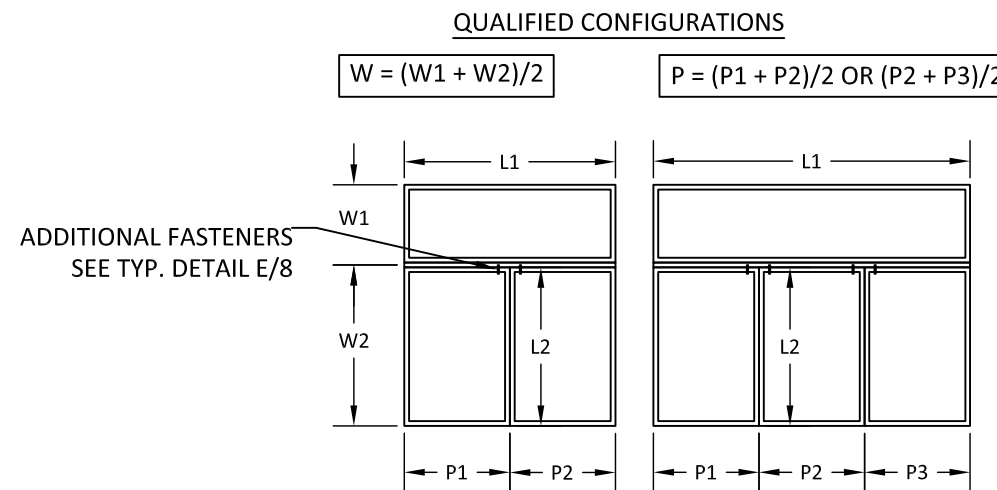
- 'TWO-WAY' MULLIONS REFER TO 'T' TYPE ASSEMBLIES FOR CONFIGURATIONS DIAGRAMMED ON THIS SHEET.
- THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEET 3 ONLY.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

TABLE B.9: DISCONTINUOUS MULLION WITH ADDITIONAL FASTENERS

- THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'T' INTERSECTIONS WITH USE OF ADDITIONAL FASTENERS THROUGH FRAME, REFER TO DETAIL E/8 FOR INSTALLATION OF FASTENERS ADJACENT TO 'T' INTERSECTIONS.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

INSTRUCTION NOTE:

- L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
- W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
- L2 IS SPAN FOR DISCONTINUOUS MULLION.
- P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION. TAKE MAXIMUM PANEL WIDTH, 'P'.
- THE LESSER OF TABLE B.8 AND B.9 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE



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TITLE: SITELINE OR W-5500 CLAD CASEMENT/AWING MULLION
"T" CONFIG. "1/4" STRUCTURAL MULLION"

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

| REMARKS | BY | DATE |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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

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

FL #:

FL17868

DATE: 09.01.17

DWG. BY: CL CHK. BY: HFN

SCALE: NTS

DWG. #: JW060

SHEET:

14

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TITLE: SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION
ONE WAY "3/4" SOLID SPREAD MULLION"

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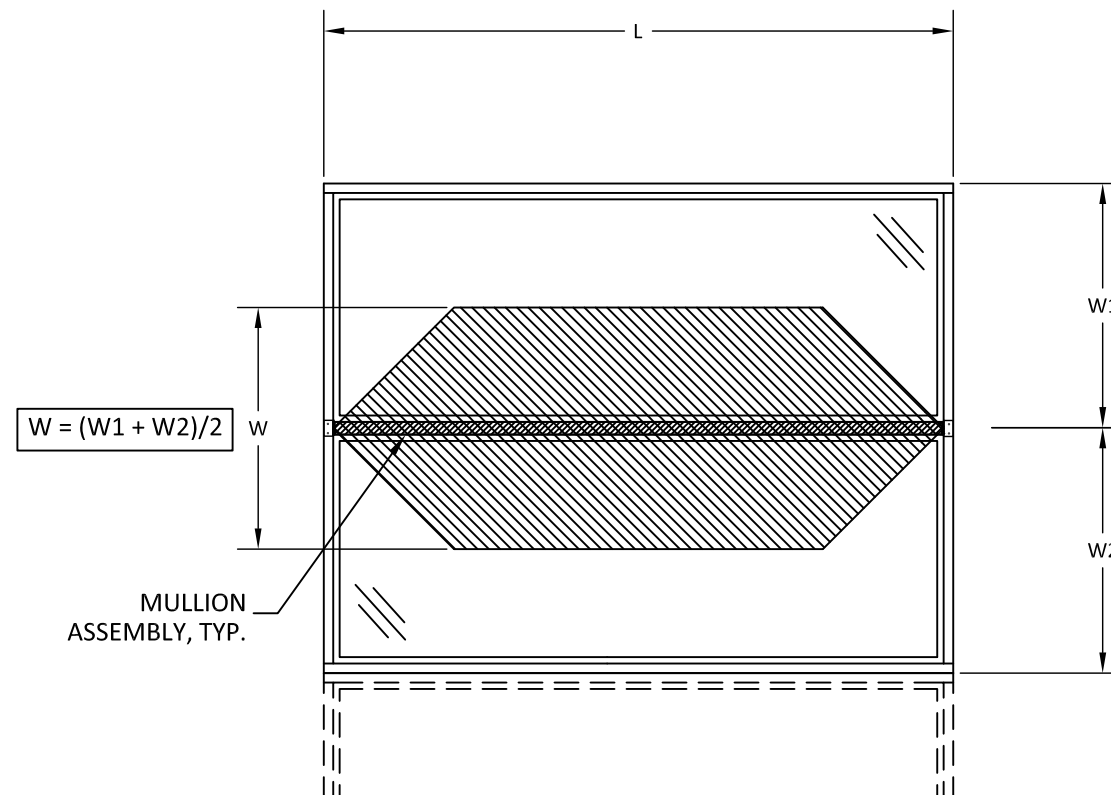
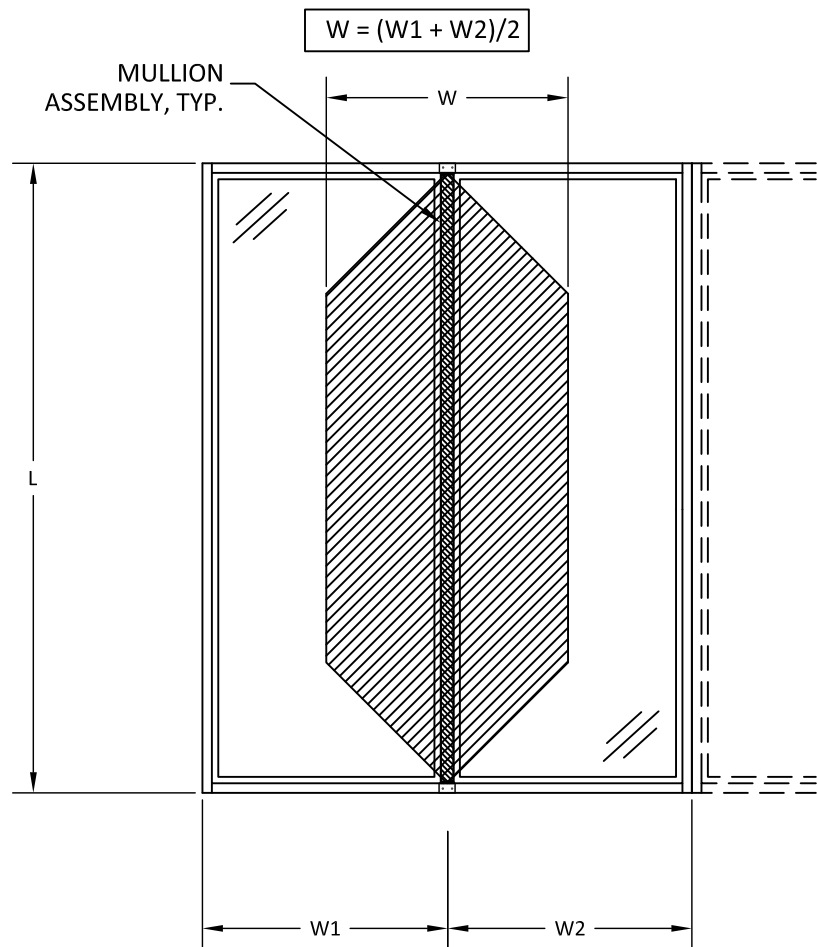
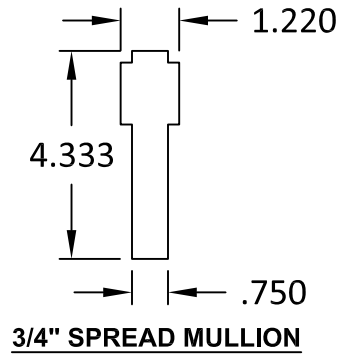


TABLE C.1: ONE WAY MULLIONS "3/4" SOLID SPREAD MULLION"

- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL RIBBON OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEET 4 ONLY.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

| L - Mull Length (in) | Maximum design pressure capacity chart (psf): | | | | | | | | | | | | |
|----------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | W - Tributary Width (in) | | | | | | | | | | | | |
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 54.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 95.8 | 90.9 | 89.3 | 89.3 | 89.3 | 89.3 |
| 60.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.6 | 87.7 | 82.1 | 74.0 | 68.9 | 66.0 | 65.1 | 65.1 | 65.1 |
| 66.0 | 100.0 | 100.0 | 93.8 | 84.4 | 77.0 | 71.1 | 66.3 | 59.2 | 54.4 | 51.3 | 49.5 | 48.9 | 48.9 |
| 72.0 | 100.0 | 88.6 | 78.2 | 70.2 | 63.9 | 58.9 | 54.8 | 48.5 | 44.2 | 41.2 | 39.2 | 38.0 | 37.7 |
| 78.0 | 87.1 | 75.2 | 66.3 | 59.4 | 54.0 | 49.6 | 46.0 | 40.6 | 36.7 | 33.9 | 32.0 | 30.6 | 29.9 |
| 84.0 | 71.6 | 61.8 | 54.5 | 48.9 | 44.5 | 40.9 | 37.9 | 33.4 | 30.2 | 27.9 | 26.2 | 25.0 | 24.2 |
| 90.0 | 58.1 | 50.1 | 44.1 | 39.6 | 35.9 | 33.0 | 30.5 | 26.8 | 24.1 | 22.1 | 20.7 | 19.6 | 18.8 |
| 96.0 | 47.8 | 41.2 | 36.2 | 32.4 | 29.4 | 27.0 | 25.0 | 21.8 | 19.6 | 17.9 | 16.6 | 15.7 | - |
| 102.0 | 39.8 | 34.2 | 30.1 | 26.9 | 24.4 | 22.4 | 20.7 | 18.1 | 16.1 | - | - | - | - |
| 108.0 | 33.4 | 28.8 | 25.3 | 22.6 | 20.5 | 18.8 | 17.3 | 15.1 | - | - | - | - | - |
| 114.0 | 28.4 | 24.4 | 21.5 | 19.2 | 17.4 | 15.9 | - | - | - | - | - | - | - |
| 120.0 | 24.3 | 20.9 | 18.4 | 16.4 | - | - | - | - | - | - | - | - | - |



| REMARKS | BY | DATE |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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

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

| | |
|----------|-----------------|
| FL #: | FL17868 |
| DATE: | 09.01.17 |
| DWG. BY: | CL |
| CHK. BY: | HFN |
| SCALE: | NTS |
| DWG. #: | JW060 |
| SHEET: | 15 |

3/17/2021 12:51 PM s:\projects\jeld-wen\fboc-20-1227-fbc submittal - per update (117868-1 (per 6278_w060))\mullion\dwgs\jw060.dwg

| Maximum design pressure capacity chart (psf): | | | | | | | | | | | | | |
|---|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| L1 - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | |
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 95.9 | 87.9 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.4 | 76.7 | 70.3 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.8 | 84.7 | 74.1 | 65.8 | 59.3 | 49.4 |
| 42.0 | 100.0 | 100.0 | 100.0 | 96.7 | 87.1 | 79.2 | 72.6 | 62.2 | 54.4 | 48.4 | 43.5 | 39.6 | 36.3 |
| 48.0 | 100.0 | 95.2 | 83.3 | 74.1 | 66.7 | 60.6 | 55.6 | 47.6 | 41.7 | 37.0 | 33.3 | 30.3 | 27.8 |
| 54.0 | 87.8 | 75.2 | 65.8 | 58.5 | 52.7 | 47.9 | 43.9 | 37.6 | 32.9 | 29.3 | 26.3 | 23.9 | 21.9 |
| 60.0 | 71.1 | 61.0 | 53.3 | 47.4 | 42.7 | 38.8 | 35.6 | 30.5 | 26.7 | 23.7 | 21.3 | 19.4 | 17.8 |
| 66.0 | 58.8 | 50.4 | 44.1 | 39.2 | 35.3 | 32.1 | 29.4 | 25.2 | 22.0 | 19.6 | 17.6 | 16.0 | - |
| 72.0 | 49.4 | 42.3 | 37.0 | 32.9 | 29.6 | 26.9 | 24.7 | 21.2 | 18.5 | 16.5 | - | - | - |
| 78.0 | 42.1 | 36.1 | 31.6 | 28.1 | 25.2 | 23.0 | 21.0 | 18.0 | 15.8 | - | - | - | - |
| 84.0 | 36.3 | 31.1 | 27.2 | 24.2 | 21.8 | 19.8 | 18.1 | 15.5 | - | - | - | - | - |
| 90.0 | 31.6 | 27.1 | 23.7 | 21.1 | 19.0 | 17.2 | 15.8 | - | - | - | - | - | - |
| 96.0 | 26.2 | 22.4 | 19.6 | 17.5 | 15.7 | - | - | - | - | - | - | - | - |
| 102.0 | 21.8 | 18.7 | 16.4 | - | - | - | - | - | - | - | - | - | - |
| 108.0 | 18.4 | 15.8 | - | - | - | - | - | - | - | - | - | - | - |
| 114.0 | 15.6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 120.0 | - | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE C.2: TWO WAY MULLIONS "3/4" SOLID SPREAD MULLION"

- 'TWO-WAY' MULLIONS REFER TO EITHER 'X' TYPE ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEET 4 ONLY.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

| Maximum design pressure capacity chart (psf): | | | | | | | | | | | | | | | | | |
|---|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L2 - Mull Length (in) | P - Tributary Width (in) | | | | | | | | | | | | | | | | |
| | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 94.9 | 90.1 | 86.8 | 84.5 | 83.2 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| 48.0 | 92.7 | 84.5 | 78.4 | 73.7 | 70.2 | 67.6 | 65.7 | 64.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 |
| 54.0 | 79.9 | 72.4 | 66.8 | 62.4 | 59.0 | 56.3 | 54.3 | 52.7 | 50.7 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 |
| 60.0 | 76.4 | 69.1 | 63.6 | 59.4 | 56.0 | 53.4 | 51.3 | 49.7 | 47.5 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 66.0 | 70.2 | 63.4 | 58.2 | 54.1 | 50.9 | 48.3 | 46.2 | 44.6 | 42.3 | 41.0 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 |
| 72.0 | 62.6 | 56.3 | 51.5 | 47.7 | 44.7 | 42.3 | 40.3 | 38.6 | 36.2 | 34.7 | 33.8 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 |
| 78.0 | 56.5 | 50.7 | 46.2 | 42.7 | 39.9 | 37.6 | 35.7 | 34.1 | 31.7 | 30.0 | 29.0 | 28.4 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 |
| 84.0 | 51.5 | 46.1 | 41.9 | 38.6 | 36.0 | 33.8 | 32.0 | 30.5 | 28.2 | 26.5 | 25.4 | 24.6 | 24.1 | 24.0 | 24.0 | 24.0 | 24.0 |
| 90.0 | 47.3 | 42.3 | 38.4 | 35.3 | 32.8 | 30.7 | 29.0 | 27.6 | 25.4 | 23.7 | 22.5 | 21.7 | 21.1 | 20.8 | 20.7 | 20.7 | 20.7 |
| 96.0 | 43.7 | 39.0 | 35.3 | 32.4 | 30.1 | 28.2 | 26.6 | 25.2 | 23.0 | 21.5 | 20.3 | 19.4 | 18.8 | 18.4 | 18.1 | 18.0 | 18.0 |
| 102.0 | 40.7 | 36.2 | 32.8 | 30.0 | 27.8 | 26.0 | 24.5 | 23.2 | 21.1 | 19.6 | 18.4 | 17.6 | 16.9 | 16.4 | 16.1 | 15.9 | 15.8 |
| 108.0 | 38.0 | 33.8 | 30.6 | 28.0 | 25.9 | 24.1 | 22.7 | 21.5 | 19.5 | 18.0 | 16.9 | 16.0 | 15.4 | - | - | - | - |
| 114.0 | 35.7 | 31.7 | 28.6 | 26.2 | 24.2 | 22.5 | 21.2 | 20.0 | 18.1 | 16.7 | 15.6 | - | - | - | - | - | - |
| 120.0 | 33.6 | 29.8 | 26.9 | 24.6 | 22.7 | 21.1 | 19.8 | 18.7 | 16.9 | 15.5 | - | - | - | - | - | - | - |

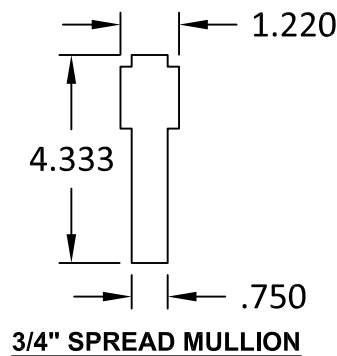
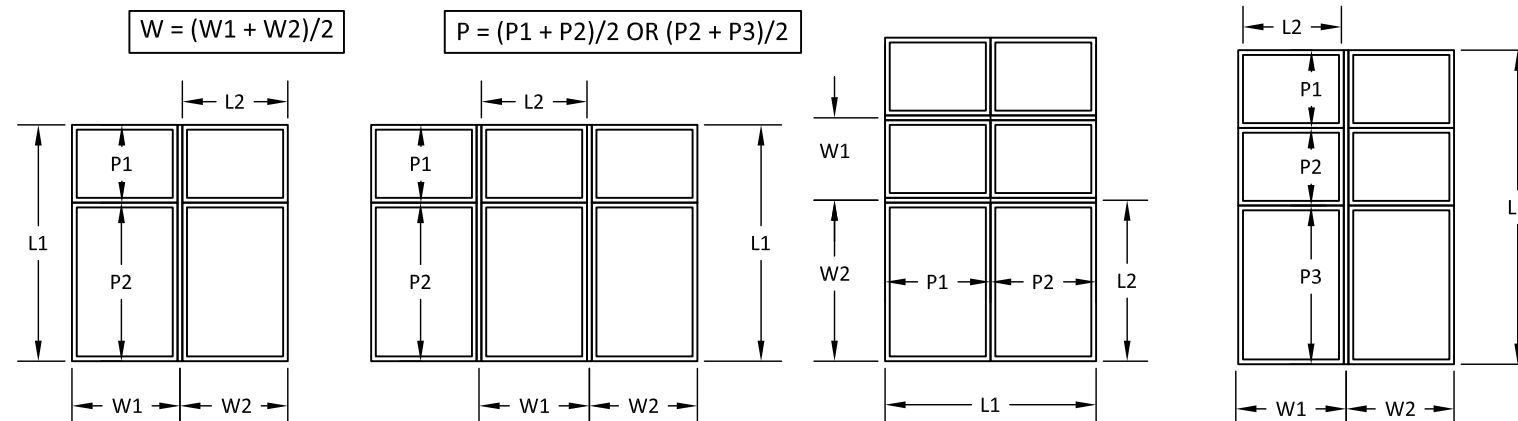
TABLE C.3: DISCONTINUOUS MULLION

- THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'X' INTERSECTIONS.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

INSTRUCTION NOTE:

- L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
- W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
- L2 IS SPAN FOR DISCONTINUOUS MULLION.
- P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION. TAKE MAXIMUM PANEL WIDTH, 'P'.
- THE LESSER OF TABLE C.2 AND C.3 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE

QUALIFIED CONFIGURATIONS



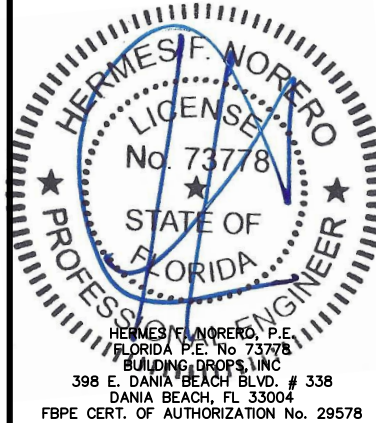
3737 LAKEPORT BLVD
KLAMATH FALLS, OR 97601
PH: (541) 882-3451 FAX: (541) 850-2609

TITLE: SITELINE OR W-5500 CLAD CASEMENT/AWING MULLION
"X" CONFIG. "3/4" SOLID SPREAD MULLION"

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 |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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 #: **FL17868**

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **JW060**

SHEET: **16** OF 24

| Maximum design pressure capacity chart (psf): | | | | | | | | | | | | | |
|---|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| L1 - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | |
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 95.9 | 87.9 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.4 | 76.7 | 70.3 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.8 | 84.7 | 74.1 | 65.8 | 59.3 | 53.9 | 49.4 |
| 42.0 | 100.0 | 100.0 | 100.0 | 96.7 | 87.1 | 79.2 | 72.6 | 62.2 | 54.4 | 48.4 | 43.5 | 39.6 | 36.3 |
| 48.0 | 100.0 | 95.2 | 83.3 | 74.1 | 66.7 | 60.6 | 55.6 | 47.6 | 41.7 | 37.0 | 33.3 | 30.3 | 27.8 |
| 54.0 | 87.8 | 75.2 | 65.8 | 58.5 | 52.7 | 47.9 | 43.9 | 37.6 | 32.9 | 29.3 | 26.3 | 23.9 | 21.9 |
| 60.0 | 71.1 | 61.0 | 53.3 | 47.4 | 42.7 | 38.8 | 35.6 | 30.5 | 26.7 | 23.7 | 21.3 | 19.4 | 17.8 |
| 66.0 | 58.8 | 50.4 | 44.1 | 39.2 | 35.3 | 32.1 | 29.4 | 25.2 | 22.0 | 19.6 | 17.6 | 16.0 | - |
| 72.0 | 49.4 | 42.3 | 37.0 | 32.9 | 29.6 | 26.9 | 24.7 | 21.2 | 18.5 | 16.5 | - | - | - |
| 78.0 | 42.1 | 36.1 | 31.6 | 28.1 | 25.2 | 23.0 | 21.0 | 18.0 | 15.8 | - | - | - | - |
| 84.0 | 36.3 | 31.1 | 27.2 | 24.2 | 21.8 | 19.8 | 18.1 | 15.5 | - | - | - | - | - |
| 90.0 | 31.6 | 27.1 | 23.7 | 21.1 | 19.0 | 17.2 | 15.8 | - | - | - | - | - | - |
| 96.0 | 26.2 | 22.4 | 19.6 | 17.5 | 15.7 | - | - | - | - | - | - | - | - |
| 102.0 | 21.8 | 18.7 | 16.4 | - | - | - | - | - | - | - | - | - | - |
| 108.0 | 18.4 | 15.8 | - | - | - | - | - | - | - | - | - | - | - |
| 114.0 | 15.6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 120.0 | - | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE C.4: TWO WAY MULLIONS "3/4" SOLID SPREAD MULLION"

- 'TWO-WAY' MULLIONS REFER TO EITHER 'X' TYPE ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEET 4 ONLY.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

| Maximum design pressure capacity chart (psf): | | | | | | | | | | | | | | | | | |
|---|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L2 - Mull Length (in) | P - Tributary Width (in) | | | | | | | | | | | | | | | | |
| | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.1 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 |
| 54.0 | 100.0 | 100.0 | 100.0 | 95.1 | 89.9 | 85.8 | 82.7 | 80.2 | 77.2 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 |
| 56.0 | 100.0 | 100.0 | 96.9 | 90.4 | 85.3 | 81.3 | 78.1 | 75.7 | 72.4 | 71.0 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 |
| 60.0 | 100.0 | 96.5 | 88.6 | 82.4 | 77.5 | 73.6 | 70.4 | 67.9 | 64.4 | 62.4 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 |
| 66.0 | 95.4 | 85.8 | 78.5 | 72.7 | 68.1 | 64.4 | 61.3 | 58.8 | 55.2 | 52.8 | 51.5 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 |
| 72.0 | 86.1 | 77.2 | 70.4 | 65.0 | 60.7 | 57.2 | 54.3 | 51.9 | 48.3 | 45.8 | 44.1 | 43.2 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 |
| 78.0 | 78.5 | 70.2 | 63.9 | 58.8 | 54.8 | 51.5 | 48.7 | 46.5 | 42.9 | 40.4 | 38.6 | 37.4 | 36.8 | 36.6 | 36.6 | 36.6 | 36.6 |
| 84.0 | 72.1 | 64.4 | 58.4 | 53.7 | 49.9 | 46.8 | 44.2 | 42.0 | 38.6 | 36.1 | 34.3 | 33.0 | 32.2 | 31.7 | 31.5 | 31.5 | 31.5 |
| 90.0 | 66.6 | 59.4 | 53.8 | 49.4 | 45.9 | 42.9 | 40.4 | 38.4 | 35.1 | 32.7 | 30.9 | 29.6 | 28.6 | 28.0 | 27.6 | 27.5 | 27.5 |
| 96.0 | 61.9 | 55.2 | 49.9 | 45.8 | 42.4 | 39.6 | 37.3 | 35.3 | 32.2 | 29.8 | 28.1 | 26.7 | 25.7 | 25.0 | 24.5 | 24.2 | 24.1 |
| 102.0 | 57.9 | 51.5 | 46.5 | 42.6 | 39.4 | 36.8 | 34.6 | 32.7 | 29.7 | 27.5 | 25.7 | 24.4 | 23.4 | 22.6 | 22.1 | 21.7 | 21.5 |
| 108.0 | 54.3 | 48.3 | 43.6 | 39.9 | 36.8 | 34.3 | 32.2 | 30.4 | 27.6 | 25.4 | 23.8 | 22.5 | 21.5 | 20.7 | 20.1 | 19.6 | 19.3 |
| 114.0 | 51.2 | 45.4 | 41.0 | 37.4 | 34.6 | 32.2 | 30.2 | 28.5 | 25.7 | 23.7 | 22.1 | 20.8 | 19.8 | 19.0 | 18.4 | 17.9 | 17.6 |
| 120.0 | 48.4 | 42.9 | 38.7 | 35.3 | 32.6 | 30.3 | 28.4 | 26.7 | 24.1 | 22.1 | 20.6 | 19.4 | 18.4 | 17.6 | 17.0 | 16.5 | 16.1 |

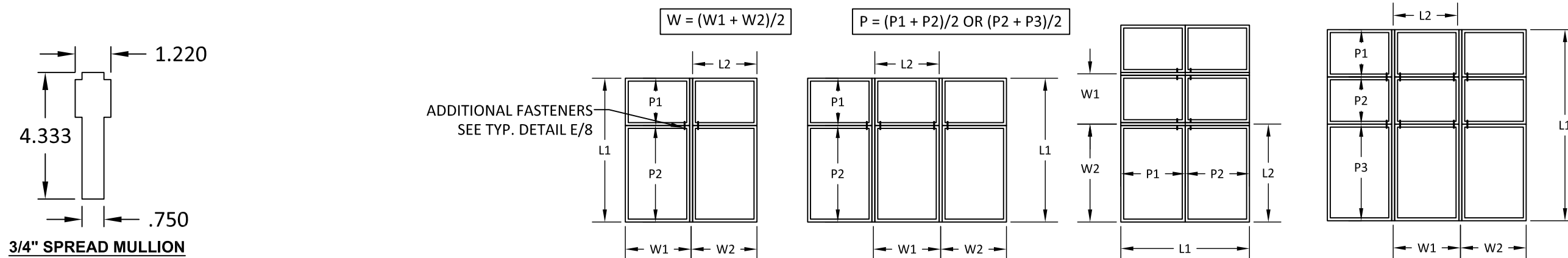
TABLE C.5: DISCONTINUOUS MULLION WITH ADDITIONAL FASTENERS

- THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'X' INTERSECTIONS WITH USE OF ADDITIONAL FASTENERS THROUGH FRAME, REFER TO DETAIL E/8 FOR INSTALLATION OF FASTENERS ADJACENT TO 'X' INTERSECTIONS.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

INSTRUCTION NOTE:

- L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
- W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
- L2 IS SPAN FOR DISCONTINUOUS MULLION.
- P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION. TAKE MAXIMUM PANEL WIDTH, 'P'.
- THE LESSER OF TABLE C.4 AND C.5 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE

QUALIFIED CONFIGURATIONS

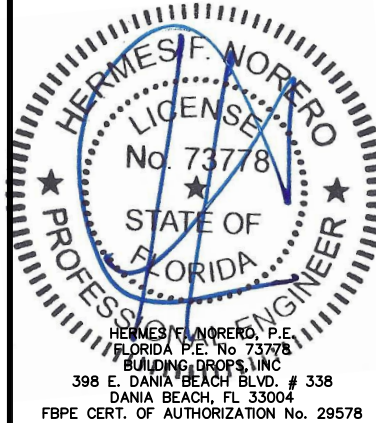


3737 LAKEPORT BLVD
KLAMATH FALLS, OR 97601
PH: (541) 882-3451 FAX: (541) 850-2609

TITLE: SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION
 'X' CONFIG. "3/4" SOLID SPREAD MULLION"
 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 |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |


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 #: | FL17868 |
| DATE: | 09.01.17 |
| DWG. BY: | CL |
| CHK. BY: | HFN |
| SCALE: | NTS |
| DWG. #: | JW060 |
| SHEET: | 17 |

TITLE: **SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION**
"T" CONFIG. "3/4" SOLID SPREAD MULLION"

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 |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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



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

FL #:
FL17868

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **JW060**

SHEET:
18

OF 24

Maximum design pressure capacity chart (psf):

| L1 - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | |
|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 95.9 | 87.9 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.4 | 76.7 | 70.3 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 87.9 | 78.2 | 70.3 | 64.0 | 58.6 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 86.1 | 75.4 | 67.0 | 60.3 | 54.8 | 50.2 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 89.1 | 81.7 | 70.0 | 61.3 | 54.5 | 49.0 | 44.6 | 40.9 |
| 54.0 | 100.0 | 100.0 | 96.8 | 86.1 | 77.5 | 70.4 | 64.6 | 55.3 | 48.4 | 43.0 | 38.7 | 35.2 | 32.3 |
| 60.0 | 100.0 | 89.6 | 78.4 | 69.7 | 62.7 | 57.0 | 52.3 | 44.8 | 39.2 | 34.9 | 31.4 | 28.5 | 26.1 |
| 66.0 | 86.4 | 74.1 | 64.8 | 57.6 | 51.9 | 47.1 | 43.2 | 37.0 | 32.4 | 28.8 | 25.9 | 23.6 | 21.6 |
| 72.0 | 72.6 | 62.3 | 54.5 | 48.4 | 43.6 | 39.6 | 36.3 | 31.1 | 27.2 | 24.2 | 21.8 | 19.8 | 18.2 |
| 78.0 | 61.9 | 53.0 | 46.4 | 41.3 | 37.1 | 33.8 | 30.9 | 26.5 | 23.2 | 20.6 | 18.6 | 16.9 | 15.5 |
| 84.0 | 53.4 | 45.7 | 40.0 | 35.6 | 32.0 | 29.1 | 26.7 | 22.9 | 20.0 | 17.8 | 16.0 | - | - |
| 90.0 | 45.3 | 38.8 | 34.0 | 30.2 | 27.2 | 24.7 | 22.7 | 19.4 | 17.0 | 15.1 | - | - | - |
| 96.0 | 37.3 | 32.0 | 28.0 | 24.9 | 22.4 | 20.4 | 18.7 | 16.0 | - | - | - | - | - |
| 102.0 | 31.1 | 26.7 | 23.3 | 20.8 | 18.7 | 17.0 | 15.6 | - | - | - | - | - | - |
| 108.0 | 26.2 | 22.5 | 19.7 | 17.5 | 15.7 | - | - | - | - | - | - | - | - |
| 114.0 | 22.3 | 19.1 | 16.7 | - | - | - | - | - | - | - | - | - | - |
| 120.0 | 19.1 | 16.4 | - | - | - | - | - | - | - | - | - | - | - |

TABLE C.6: TWO WAY MULLIONS "3/4" SOLID SPREAD MULLION"

- "TWO-WAY" MULLIONS REFER TO EITHER "T" TYPE ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEET 4 ONLY.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

Maximum design pressure capacity chart (psf):

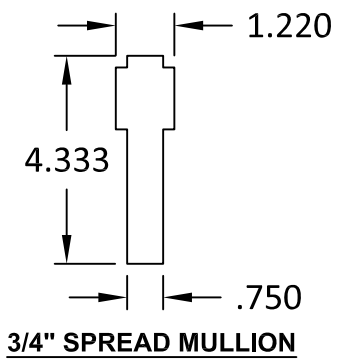
| L2 - Mull Length (in) | P - Tributary Width (in) | | | | | | | | | | | | | | | | |
|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 94.9 | 90.1 | 86.8 | 84.5 | 83.2 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| 48.0 | 92.7 | 84.5 | 78.4 | 73.7 | 70.2 | 67.6 | 65.7 | 64.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 |
| 54.0 | 79.9 | 72.4 | 66.8 | 62.4 | 59.0 | 56.3 | 54.3 | 52.7 | 50.7 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 |
| 56.0 | 76.4 | 69.1 | 63.6 | 59.4 | 56.0 | 53.4 | 51.3 | 49.7 | 47.5 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 60.0 | 70.2 | 63.4 | 58.2 | 54.1 | 50.9 | 48.3 | 46.2 | 44.6 | 42.3 | 41.0 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 |
| 66.0 | 62.6 | 56.3 | 51.5 | 47.7 | 44.7 | 42.3 | 40.3 | 38.6 | 36.2 | 34.7 | 33.8 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 |
| 72.0 | 56.5 | 50.7 | 46.2 | 42.7 | 39.9 | 37.6 | 35.7 | 34.1 | 31.7 | 30.0 | 29.0 | 28.4 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 |
| 78.0 | 51.5 | 46.1 | 41.9 | 38.6 | 36.0 | 33.8 | 32.0 | 30.5 | 28.2 | 26.5 | 25.4 | 24.6 | 24.1 | 24.0 | 24.0 | 24.0 | 24.0 |
| 84.0 | 47.3 | 42.3 | 38.4 | 35.3 | 32.8 | 30.7 | 29.0 | 27.6 | 25.4 | 23.7 | 22.5 | 21.7 | 21.1 | 20.8 | 20.7 | 20.7 | 20.7 |
| 90.0 | 43.7 | 39.0 | 35.3 | 32.4 | 30.1 | 28.2 | 26.6 | 25.2 | 23.0 | 21.5 | 20.3 | 19.4 | 18.8 | 18.4 | 18.1 | 18.0 | 18.0 |
| 96.0 | 40.7 | 36.2 | 32.8 | 30.0 | 27.8 | 26.0 | 24.5 | 23.2 | 21.1 | 19.6 | 18.4 | 17.6 | 16.9 | 16.4 | 16.1 | 15.9 | 15.8 |
| 102.0 | 38.0 | 33.8 | 30.6 | 28.0 | 25.9 | 24.1 | 22.7 | 21.5 | 19.5 | 18.0 | 16.9 | 16.0 | 15.4 | - | - | - | - |
| 108.0 | 35.7 | 31.7 | 28.6 | 26.2 | 24.2 | 22.5 | 21.2 | 20.0 | 18.1 | 16.7 | 15.6 | - | - | - | - | - | - |
| 114.0 | 33.6 | 29.8 | 26.9 | 24.6 | 22.7 | 21.1 | 19.8 | 18.7 | 16.9 | 15.5 | - | - | - | - | - | - | - |
| 120.0 | 31.7 | 28.2 | 25.4 | 23.2 | 21.4 | 19.9 | 18.6 | 17.6 | 15.8 | - | - | - | - | - | - | - | - |

TABLE C.7: DISCONTINUOUS MULLION

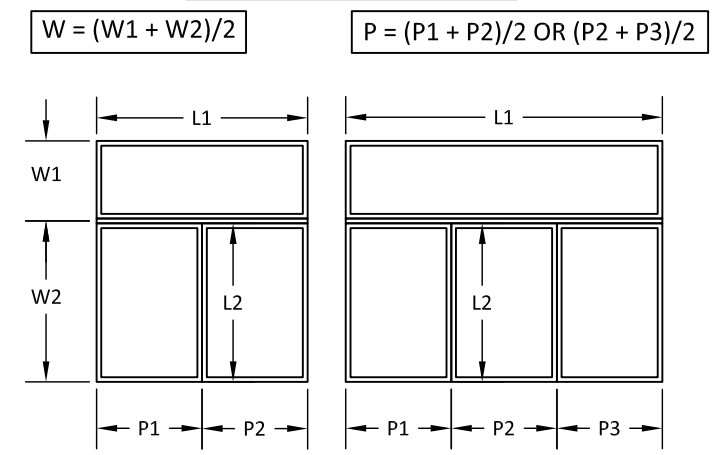
- THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'T' INTERSECTIONS.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

INSTRUCTION NOTE:

- L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
- W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
- L2 IS SPAN FOR DISCONTINUOUS MULLION.
- P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION. TAKE MAXIMUM PANEL WIDTH, 'P'.
- THE LESSER OF TABLE C.2 AND C.3 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE




QUALIFIED CONFIGURATIONS




TITLE: SITELINE OR W-5500 CLAD CASEMENT/AWING MULLION
"T" CONFIG. "3/4" SOLID SPREAD MULLION"

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 359-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



| REMARKS | BY | DATE |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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



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

FL #:

FL17868

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **JW060**

SHEET:

19

TABLE C.8: TWO WAY MULLIONS "3/4" SOLID SPREAD MULLION"

- 'TWO-WAY' MULLIONS REFER TO EITHER 'T' TYPE ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEET 4 ONLY.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

TABLE C.9: DISCONTINUOUS MULLION WITH ADDITIONAL FASTENERS

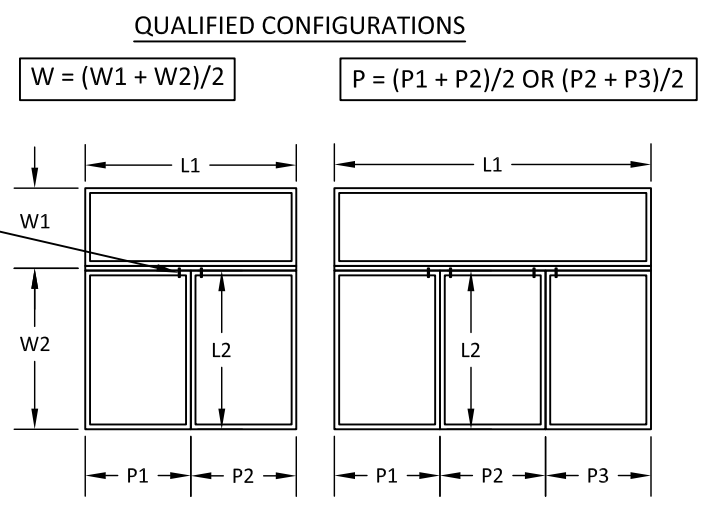
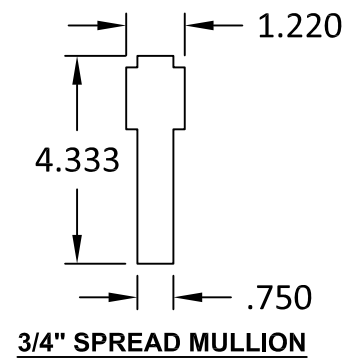
- THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'T' INTERSECTIONS WITH USE OF ADDITIONAL FASTENERS THROUGH FRAME, REFER TO DETAIL E/8 FOR INSTALLATION OF FASTENERS ADJACENT TO 'T' INTERSECTIONS.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

INSTRUCTION NOTE:

- L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
- W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
- L2 IS SPAN FOR DISCONTINUOUS MULLION.
- P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION. TAKE MAXIMUM PANEL WIDTH, 'P'.
- THE LESSER OF TABLE C.8 AND C.9 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE

| L1 - Mull Length (in) | Maximum design pressure capacity chart (psf): | | | | | | | | | | | | |
|-----------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | W - Tributary Width (in) | | | | | | | | | | | | |
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 95.9 | 87.9 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.4 | 76.7 | 70.3 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 87.9 | 78.2 | 70.3 | 64.0 | 58.6 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 86.1 | 75.4 | 67.0 | 60.3 | 54.8 | 50.2 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 89.1 | 81.7 | 70.0 | 61.3 | 54.5 | 49.0 | 44.6 | 40.9 |
| 54.0 | 100.0 | 100.0 | 96.8 | 86.1 | 77.5 | 70.4 | 64.6 | 55.3 | 48.4 | 43.0 | 38.7 | 35.2 | 32.3 |
| 60.0 | 100.0 | 89.6 | 78.4 | 69.7 | 62.7 | 57.0 | 52.3 | 44.8 | 39.2 | 34.9 | 31.4 | 28.5 | 26.1 |
| 66.0 | 86.4 | 74.1 | 64.8 | 57.6 | 51.9 | 47.1 | 43.2 | 37.0 | 32.4 | 28.8 | 25.9 | 23.6 | 21.6 |
| 72.0 | 72.6 | 62.3 | 54.5 | 48.4 | 43.6 | 39.6 | 36.3 | 31.1 | 27.2 | 24.2 | 21.8 | 19.8 | 18.2 |
| 78.0 | 61.9 | 53.0 | 46.4 | 41.3 | 37.1 | 33.8 | 30.9 | 26.5 | 23.2 | 20.6 | 18.6 | 16.9 | 15.5 |
| 84.0 | 53.4 | 45.7 | 40.0 | 35.6 | 32.0 | 29.1 | 26.7 | 22.9 | 20.0 | 17.8 | 16.0 | - | - |
| 90.0 | 45.3 | 38.8 | 34.0 | 30.2 | 27.2 | 24.7 | 22.7 | 19.4 | 17.0 | 15.1 | - | - | - |
| 96.0 | 37.3 | 32.0 | 28.0 | 24.9 | 22.4 | 20.4 | 18.7 | 16.0 | - | - | - | - | - |
| 102.0 | 31.1 | 26.7 | 23.3 | 20.8 | 18.7 | 17.0 | 15.6 | - | - | - | - | - | - |
| 108.0 | 26.2 | 22.5 | 19.7 | 17.5 | 15.7 | - | - | - | - | - | - | - | - |
| 114.0 | 22.3 | 19.1 | 16.7 | - | - | - | - | - | - | - | - | - | - |
| 120.0 | 19.1 | 16.4 | - | - | - | - | - | - | - | - | - | - | - |

| L2 - Mull Length (in) | Maximum design pressure capacity chart (psf): | | | | | | | | | | | | | | | | |
|-----------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | P - Tributary Width (in) | | | | | | | | | | | | | | | | |
| | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 94.9 | 90.1 | 86.8 | 84.5 | 83.2 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| 48.0 | 92.7 | 84.5 | 78.4 | 73.7 | 70.2 | 67.6 | 65.7 | 64.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 |
| 54.0 | 79.9 | 72.4 | 66.8 | 62.4 | 59.0 | 56.3 | 54.3 | 52.7 | 50.7 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 |
| 56.0 | 76.4 | 69.1 | 63.6 | 59.4 | 56.0 | 53.4 | 51.3 | 49.7 | 47.5 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 60.0 | 70.2 | 63.4 | 58.2 | 54.1 | 50.9 | 48.3 | 46.2 | 44.6 | 42.3 | 41.0 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 |
| 66.0 | 62.6 | 56.3 | 51.5 | 47.7 | 44.7 | 42.3 | 40.3 | 38.6 | 36.2 | 34.7 | 33.8 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 |
| 72.0 | 56.5 | 50.7 | 46.2 | 42.7 | 39.9 | 37.6 | 35.7 | 34.1 | 31.7 | 30.0 | 29.0 | 28.4 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 |
| 78.0 | 51.5 | 46.1 | 41.9 | 38.6 | 36.0 | 33.8 | 32.0 | 30.5 | 28.2 | 26.5 | 25.4 | 24.6 | 24.1 | 24.0 | 24.0 | 24.0 | 24.0 |
| 84.0 | 47.3 | 42.3 | 38.4 | 35.3 | 32.8 | 30.7 | 29.0 | 27.6 | 25.4 | 23.7 | 22.5 | 21.7 | 21.1 | 20.8 | 20.7 | 20.7 | 20.7 |
| 90.0 | 43.7 | 39.0 | 35.3 | 32.4 | 30.1 | 28.2 | 26.6 | 25.2 | 23.0 | 21.5 | 20.3 | 19.4 | 18.8 | 18.4 | 18.1 | 18.0 | 18.0 |
| 96.0 | 40.7 | 36.2 | 32.8 | 30.0 | 27.8 | 26.0 | 24.5 | 23.2 | 21.1 | 19.6 | 18.4 | 17.6 | 16.9 | 16.4 | 16.1 | 15.9 | 15.8 |
| 102.0 | 38.0 | 33.8 | 30.6 | 28.0 | 25.9 | 24.1 | 22.7 | 21.5 | 19.5 | 18.0 | 16.9 | 16.0 | 15.4 | - | - | - | - |
| 108.0 | 35.7 | 31.7 | 28.6 | 26.2 | 24.2 | 22.5 | 21.2 | 20.0 | 18.1 | 16.7 | 15.6 | - | - | - | - | - | - |
| 114.0 | 33.6 | 29.8 | 26.9 | 24.6 | 22.7 | 21.1 | 19.8 | 18.7 | 16.9 | 15.5 | - | - | - | - | - | - | - |
| 120.0 | 31.7 | 28.2 | 25.4 | 23.2 | 21.4 | 19.9 | 18.6 | 17.6 | 15.8 | - | - | - | - | - | - | - | - |

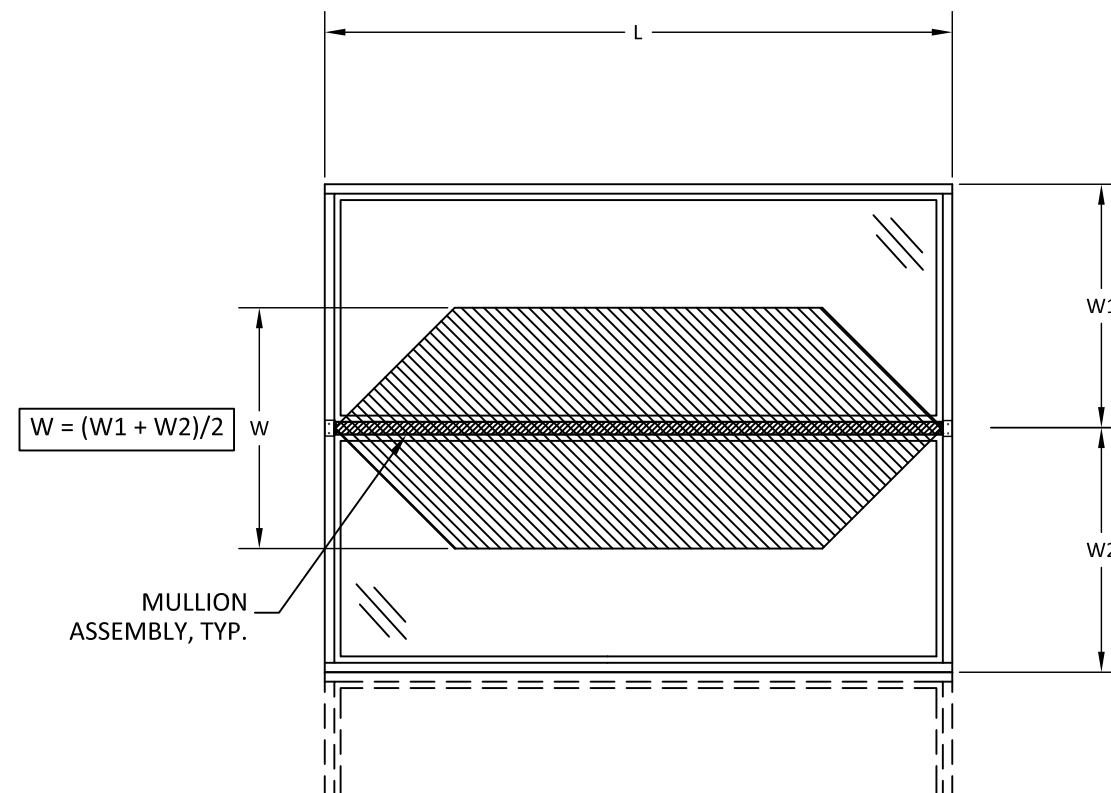
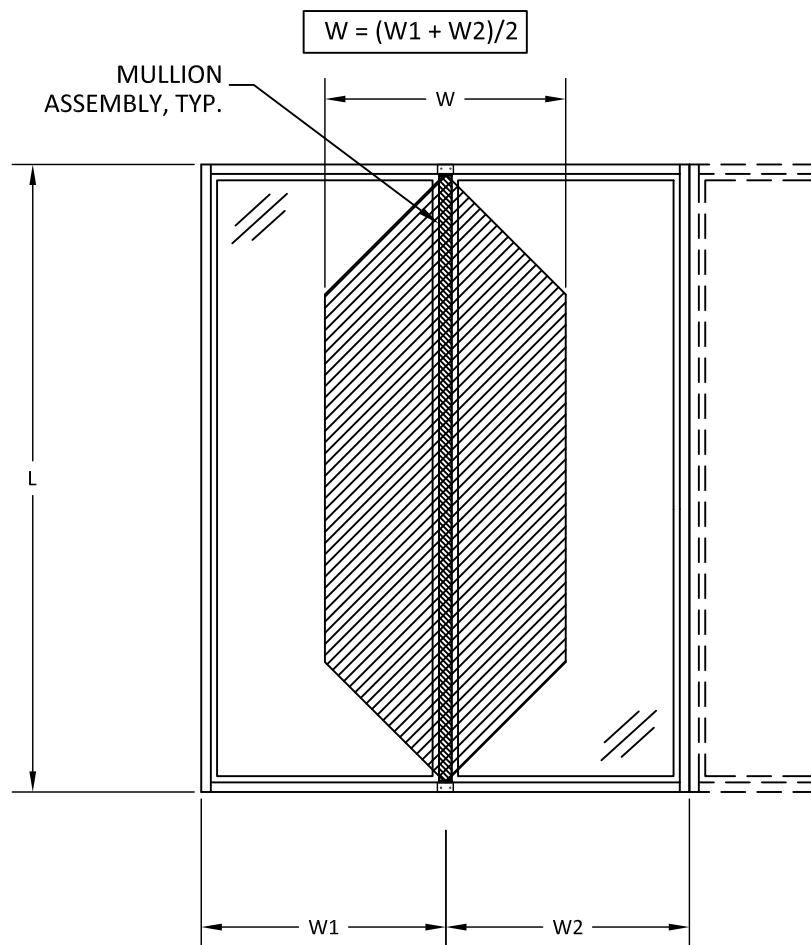
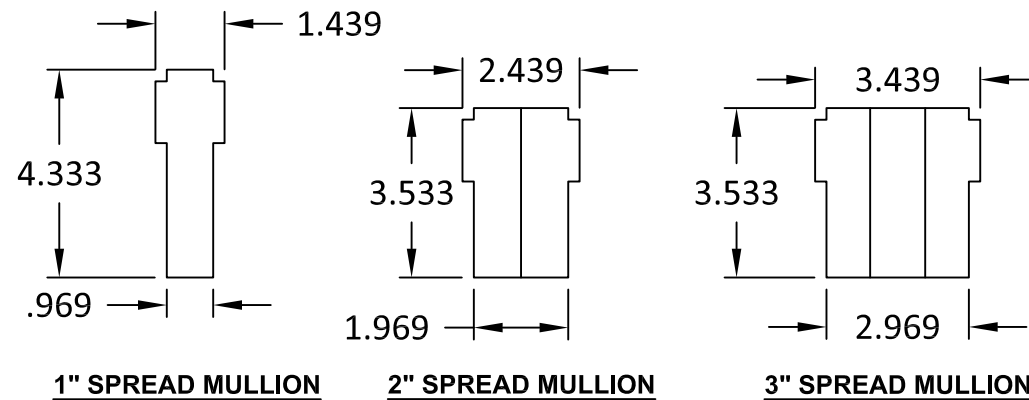


TITLE: **SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION**
ONE WAY "1" SOLID SPREAD MULLION"

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

| L - Mull Length (in) | Maximum design pressure capacity chart (psf): | | | | | | | | | | | | |
|----------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | W - Tributary Width (in) | | | | | | | | | | | | |
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 54.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 60.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.6 | 78.7 | 75.4 | 74.3 | 74.3 | 74.3 |
| 66.0 | 100.0 | 100.0 | 100.0 | 96.4 | 88.0 | 81.2 | 75.7 | 67.6 | 62.1 | 58.6 | 56.5 | 55.9 | 55.9 |
| 72.0 | 100.0 | 100.0 | 89.4 | 80.2 | 73.1 | 67.3 | 62.6 | 55.4 | 50.5 | 47.0 | 44.8 | 43.5 | 43.0 |
| 78.0 | 99.6 | 85.9 | 75.7 | 67.9 | 61.7 | 56.7 | 52.6 | 46.4 | 41.9 | 38.8 | 36.5 | 35.0 | 34.1 |
| 84.0 | 81.4 | 70.2 | 62.0 | 55.6 | 50.5 | 46.4 | 43.1 | 38.0 | 34.3 | 31.6 | 29.7 | 28.4 | 27.5 |
| 90.0 | 66.0 | 56.9 | 50.2 | 44.9 | 40.8 | 37.4 | 34.7 | 30.5 | 27.4 | 25.1 | 23.5 | 22.2 | 21.4 |
| 96.0 | 54.3 | 46.8 | 41.2 | 36.9 | 33.4 | 30.6 | 28.4 | 24.8 | 22.2 | 20.3 | 18.9 | 17.8 | 17.0 |
| 102.0 | 45.2 | 38.9 | 34.2 | 30.6 | 27.7 | 25.4 | 23.5 | 20.5 | 18.3 | 16.7 | 15.5 | - | - |
| 108.0 | 38.0 | 32.7 | 28.8 | 25.7 | 23.3 | 21.3 | 19.7 | 17.1 | 15.3 | - | - | - | - |
| 114.0 | 32.3 | 27.8 | 24.4 | 21.8 | 19.7 | 18.0 | 16.6 | - | - | - | - | - | - |
| 120.0 | 27.6 | 23.8 | 20.9 | 18.6 | 16.9 | 15.4 | - | - | - | - | - | - | - |

- TABLE D.1: ONE WAY MULLIONS "1" SOLID SPREAD MULLION"**
- 'ONE-WAY' MULLIONS REFER TO EITHER VERTICAL RIBBON OR HORIZONTAL STACKED ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
 - THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEETS 4-6 ONLY.
 - WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
 - DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
 - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
 - INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.



| REMARKS | BY | DATE |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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

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

FL #: **FL17868**

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **JW060**

SHEET:

3/17/2021 12:52 PM
s:\projects\jeld-wen\fb-20-1227-fbc-submittal-per-update\17868-1\per-6278-w060\mullion\dwgs\jw060.dwg

3/17/2021 12:52 PM

Maximum design pressure capacity chart (psf):

| L1 - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | |
|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.5 | 76.8 | 70.4 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 88.0 | 78.2 | 70.4 | 64.0 | 58.6 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.6 | 80.2 | 70.2 | 62.4 | 56.1 | 51.0 | 46.8 |
| 48.0 | 100.0 | 100.0 | 100.0 | 95.5 | 86.0 | 78.1 | 71.6 | 61.4 | 53.7 | 47.8 | 43.0 | 39.1 | 35.8 |
| 54.0 | 100.0 | 97.0 | 84.9 | 75.5 | 67.9 | 61.7 | 56.6 | 48.5 | 42.4 | 37.7 | 34.0 | 30.9 | 28.3 |
| 60.0 | 91.7 | 78.6 | 68.8 | 61.1 | 55.0 | 50.0 | 45.8 | 39.3 | 34.4 | 30.6 | 27.5 | 25.0 | 22.9 |
| 66.0 | 75.8 | 64.9 | 56.8 | 50.5 | 45.5 | 41.3 | 37.9 | 32.5 | 28.4 | 25.3 | 22.7 | 20.7 | 18.9 |
| 72.0 | 63.7 | 54.6 | 47.8 | 42.4 | 38.2 | 34.7 | 31.8 | 27.3 | 23.9 | 21.2 | 19.1 | 17.4 | 15.9 |
| 78.0 | 54.2 | 46.5 | 40.7 | 36.2 | 32.5 | 29.6 | 27.1 | 23.2 | 20.3 | 18.1 | 16.3 | - | - |
| 84.0 | 46.8 | 40.1 | 35.1 | 31.2 | 28.1 | 25.5 | 23.4 | 20.0 | 17.5 | 15.6 | - | - | - |
| 90.0 | 39.8 | 34.1 | 29.8 | 26.5 | 23.9 | 21.7 | 19.9 | 17.1 | - | - | - | - | - |
| 96.0 | 32.8 | 28.1 | 24.6 | 21.9 | 19.7 | 17.9 | 16.4 | - | - | - | - | - | - |
| 102.0 | 27.3 | 23.4 | 20.5 | 18.2 | 16.4 | - | - | - | - | - | - | - | - |
| 108.0 | 23.0 | 19.7 | 17.3 | 15.3 | - | - | - | - | - | - | - | - | - |
| 114.0 | 19.6 | 16.8 | - | - | - | - | - | - | - | - | - | - | - |
| 120.0 | 16.8 | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE D.2: TWO WAY MULLIONS "1" SOLID SPREAD MULLION"

1. 'TWO-WAY' MULLIONS REFER TO EITHER 'X' TYPE ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
2. THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEETS 4-6 ONLY; 1", 2", AND 3" SOLID SPREAD MULLION ASSEMBLIES.
3. WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
4. DESIGN PRESSURES LISTED ABOVE SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
5. DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
6. INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

TABLE D.3: DISCONTINUOUS MULLION

1. THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'X' INTERSECTIONS.
2. WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
3. DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
4. DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
5. INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

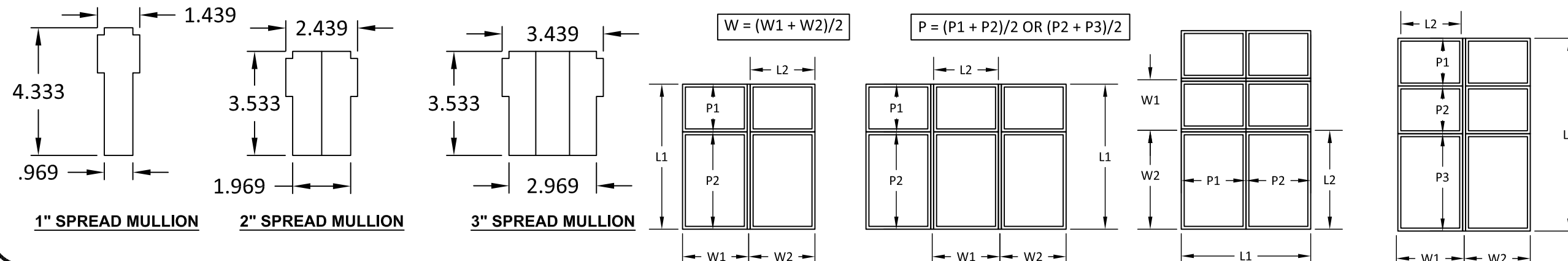
INSTRUCTION NOTE:

1. L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
2. W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
3. L2 IS SPAN FOR DISCONTINUOUS MULLION.
4. P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION. TAKE MAXIMUM PANEL WIDTH, 'P'.
5. THE LESSER OF TABLE D.2 AND D.3 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE

Maximum design pressure capacity chart (psf):

| L2 - Mull Length (in) | P - Tributary Width (in) | | | | | | | | | | | | | | | | |
|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 94.9 | 90.1 | 86.8 | 84.5 | 83.2 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| 48.0 | 92.7 | 84.5 | 78.4 | 73.7 | 70.2 | 67.6 | 65.7 | 64.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 |
| 54.0 | 79.9 | 72.4 | 66.8 | 62.4 | 59.0 | 56.3 | 54.3 | 52.7 | 50.7 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 |
| 56.0 | 76.4 | 69.1 | 63.6 | 59.4 | 56.0 | 53.4 | 51.3 | 49.7 | 47.5 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 60.0 | 70.2 | 63.4 | 58.2 | 54.1 | 50.9 | 48.3 | 46.2 | 44.6 | 42.3 | 41.0 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 |
| 66.0 | 62.6 | 56.3 | 51.5 | 47.7 | 44.7 | 42.3 | 40.3 | 38.6 | 36.2 | 34.7 | 33.8 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 |
| 72.0 | 56.5 | 50.7 | 46.2 | 42.7 | 39.9 | 37.6 | 35.7 | 34.1 | 31.7 | 30.0 | 29.0 | 28.4 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 |
| 78.0 | 51.5 | 46.1 | 41.9 | 38.6 | 36.0 | 33.8 | 32.0 | 30.5 | 28.2 | 26.5 | 25.4 | 24.6 | 24.1 | 24.0 | 24.0 | 24.0 | 24.0 |
| 84.0 | 47.3 | 42.3 | 38.4 | 35.3 | 32.8 | 30.7 | 29.0 | 27.6 | 25.4 | 23.7 | 22.5 | 21.7 | 21.1 | 20.8 | 20.7 | 20.7 | 20.7 |
| 90.0 | 43.7 | 39.0 | 35.3 | 32.4 | 30.1 | 28.2 | 26.6 | 25.2 | 23.0 | 21.5 | 20.3 | 19.4 | 18.8 | 18.4 | 18.1 | 18.0 | 18.0 |
| 96.0 | 40.7 | 36.2 | 32.8 | 30.0 | 27.8 | 26.0 | 24.5 | 23.2 | 21.1 | 19.6 | 18.4 | 17.6 | 16.9 | 16.4 | 16.1 | 15.9 | 15.8 |
| 102.0 | 38.0 | 33.8 | 30.6 | 28.0 | 25.9 | 24.1 | 22.7 | 21.5 | 19.5 | 18.0 | 16.9 | 16.0 | 15.4 | - | - | - | - |
| 108.0 | 35.7 | 31.7 | 28.6 | 26.2 | 24.2 | 22.5 | 21.2 | 20.0 | 18.1 | 16.7 | 15.6 | - | - | - | - | - | - |
| 114.0 | 33.6 | 29.8 | 26.9 | 24.6 | 22.7 | 21.1 | 19.8 | 18.7 | 16.9 | 15.5 | - | - | - | - | - | - | - |
| 120.0 | 31.7 | 28.2 | 25.4 | 23.2 | 21.4 | 19.9 | 18.6 | 17.6 | 15.8 | - | - | - | - | - | - | - | - |

QUALIFIED CONFIGURATIONS



3737 LAKEPORT BLVD
KLAMATH FALLS, OR 97601
PH: (541) 882-3451 FAX: (541) 850-2609

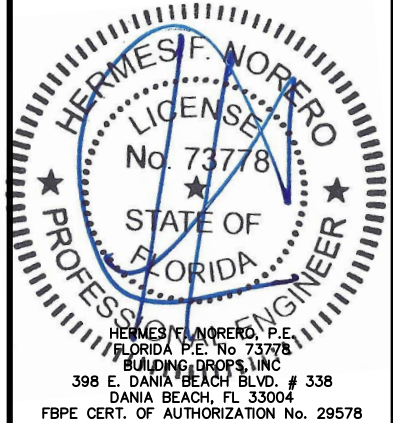
TITLE: SITELINE OR W-5500 CLAD CASEMENT/AWING MULLION
"X" CONFIG. "1" SOLID SPREAD MULLION"

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 |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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 #: | FL17868 |
| DATE: | 09.01.17 |
| DWG. BY: | CL |
| CHK. BY: | HFN |
| SCALE: | NTS |
| DWG. #: | JW060 |
| SHEET: | 21 |

TITLE: **SITELINE OR W-5500 CLAD CASEMENT /AWING MULLION**
'X' CONFIG. "1" SOLID SPREAD MULLION"

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):

| L1 - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | | |
|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|--|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 | |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.5 | 76.8 | 70.4 | |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 88.0 | 78.2 | 70.4 | 64.0 | 58.6 | |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.6 | 80.2 | 70.2 | 62.4 | 56.1 | 51.0 | 46.8 | |
| 48.0 | 100.0 | 100.0 | 100.0 | 95.5 | 86.0 | 78.1 | 71.6 | 61.4 | 53.7 | 47.8 | 43.0 | 39.1 | 35.8 | |
| 54.0 | 100.0 | 97.0 | 84.9 | 75.5 | 67.9 | 61.7 | 56.6 | 48.5 | 42.4 | 37.7 | 34.0 | 30.9 | 28.3 | |
| 60.0 | 91.7 | 78.6 | 68.8 | 61.1 | 55.0 | 50.0 | 45.8 | 39.3 | 34.4 | 30.6 | 27.5 | 25.0 | 22.9 | |
| 66.0 | 75.8 | 64.9 | 56.8 | 50.5 | 45.5 | 41.3 | 37.9 | 32.5 | 28.4 | 25.3 | 22.7 | 20.7 | 18.9 | |
| 72.0 | 63.7 | 54.6 | 47.8 | 42.4 | 38.2 | 34.7 | 31.8 | 27.3 | 23.9 | 21.2 | 19.1 | 17.4 | 15.9 | |
| 78.0 | 54.2 | 46.5 | 40.7 | 36.2 | 32.5 | 29.6 | 27.1 | 23.2 | 20.3 | 18.1 | 16.3 | - | - | |
| 84.0 | 46.8 | 40.1 | 35.1 | 31.2 | 28.1 | 25.5 | 23.4 | 20.0 | 17.5 | 15.6 | - | - | - | |
| 90.0 | 39.8 | 34.1 | 29.8 | 26.5 | 23.9 | 21.7 | 19.9 | 17.1 | - | - | - | - | - | |
| 96.0 | 32.8 | 28.1 | 24.6 | 21.9 | 19.7 | 17.9 | 16.4 | - | - | - | - | - | - | |
| 102.0 | 27.3 | 23.4 | 20.5 | 18.2 | 16.4 | - | - | - | - | - | - | - | - | |
| 108.0 | 23.0 | 19.7 | 17.3 | 15.3 | - | - | - | - | - | - | - | - | - | |
| 114.0 | 19.6 | 16.8 | - | - | - | - | - | - | - | - | - | - | - | |
| 120.0 | 16.8 | - | - | - | - | - | - | - | - | - | - | - | - | |

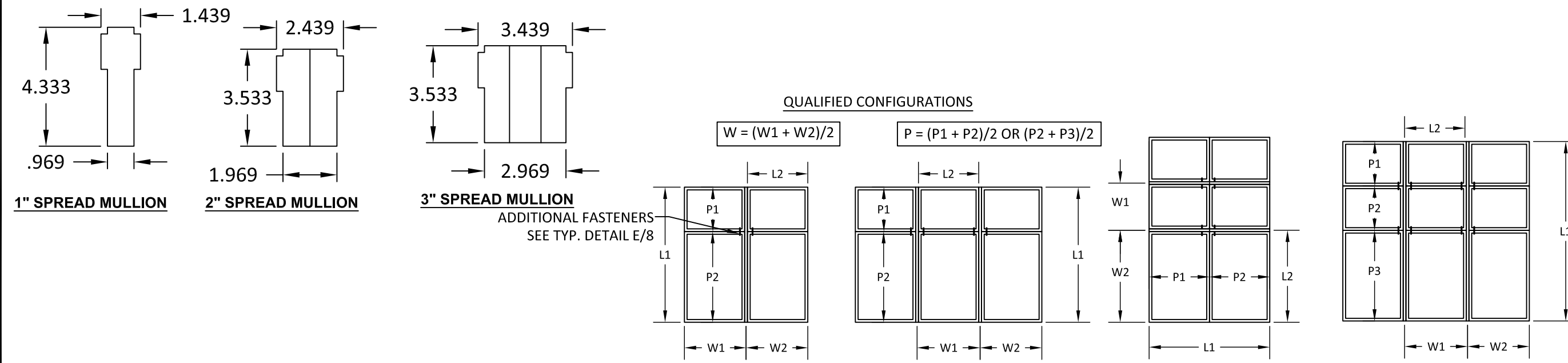
- TABLE D.4: TWO WAY MULLIONS "1" SOLID SPREAD MULLION"**
- 'TWO-WAY' MULLIONS REFER TO EITHER 'X' TYPE ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
 - THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEETS 4-6 ONLY; 1", 2", AND 3" SOLID SPREAD MULLION ASSEMBLIES.
 - WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
 - DESIGN PRESSURES LISTED ABOVE SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
 - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
 - INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

Maximum design pressure capacity chart (psf):

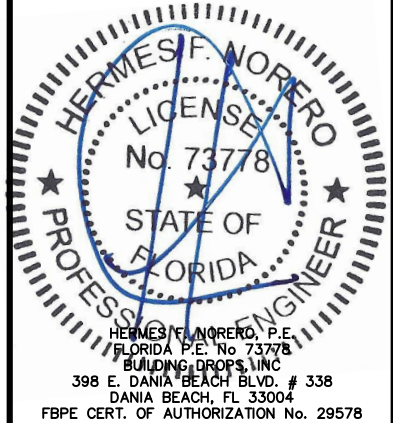
| L2 - Mull Length (in) | P - Tributary Width (in) | | | | | | | | | | | | | | | | |
|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.1 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 |
| 54.0 | 100.0 | 100.0 | 100.0 | 95.1 | 89.9 | 85.8 | 82.7 | 80.2 | 77.2 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 |
| 56.0 | 100.0 | 100.0 | 96.9 | 90.4 | 85.3 | 81.3 | 78.1 | 75.7 | 72.4 | 71.0 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 |
| 60.0 | 100.0 | 96.5 | 88.6 | 82.4 | 77.5 | 73.6 | 70.4 | 67.9 | 64.4 | 62.4 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 |
| 66.0 | 95.4 | 85.8 | 78.5 | 72.7 | 68.1 | 64.4 | 61.3 | 58.8 | 55.2 | 52.8 | 51.5 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 |
| 72.0 | 86.1 | 77.2 | 70.4 | 65.0 | 60.7 | 57.2 | 54.3 | 51.9 | 48.3 | 45.8 | 44.1 | 43.2 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 |
| 78.0 | 78.5 | 70.2 | 63.9 | 58.8 | 54.8 | 51.5 | 48.7 | 46.5 | 42.9 | 40.4 | 38.6 | 37.4 | 36.8 | 36.6 | 36.6 | 36.6 | 36.6 |
| 84.0 | 72.1 | 64.4 | 58.4 | 53.7 | 49.9 | 46.8 | 44.2 | 42.0 | 38.6 | 36.1 | 34.3 | 33.0 | 32.2 | 31.7 | 31.5 | 31.5 | 31.5 |
| 90.0 | 66.6 | 59.4 | 53.8 | 49.4 | 45.9 | 42.9 | 40.4 | 38.4 | 35.1 | 32.7 | 30.9 | 29.6 | 28.6 | 28.0 | 27.6 | 27.5 | 27.5 |
| 96.0 | 61.9 | 55.2 | 49.9 | 45.8 | 42.4 | 39.6 | 37.3 | 35.3 | 32.2 | 29.8 | 28.1 | 26.7 | 25.7 | 25.0 | 24.5 | 24.2 | 24.1 |
| 102.0 | 57.9 | 51.5 | 46.5 | 42.6 | 39.4 | 36.8 | 34.6 | 32.7 | 29.7 | 27.5 | 25.7 | 24.4 | 23.4 | 22.6 | 22.1 | 21.7 | 21.5 |
| 108.0 | 54.3 | 48.3 | 43.6 | 39.9 | 36.8 | 34.3 | 32.2 | 30.4 | 27.6 | 25.4 | 23.8 | 22.5 | 21.5 | 20.7 | 20.1 | 19.6 | 19.3 |
| 114.0 | 51.2 | 45.4 | 41.0 | 37.4 | 34.6 | 32.2 | 30.2 | 28.5 | 25.7 | 23.7 | 22.1 | 20.8 | 19.8 | 19.0 | 18.4 | 17.9 | 17.6 |
| 120.0 | 48.4 | 42.9 | 38.7 | 35.3 | 32.6 | 30.3 | 28.4 | 26.7 | 24.1 | 22.1 | 20.6 | 19.4 | 18.4 | 17.6 | 17.0 | 16.5 | 16.1 |

- TABLE D.5: DISCONTINUOUS MULLION WITH ADDITIONAL FASTENERS**
- THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'X' INTERSECTIONS WITH USE OF ADDITIONAL FASTENERS THROUGH FRAME, REFER TO DETAIL E/8 FOR INSTALLATION OF FASTENERS ADJACENT TO 'X' INTERSECTIONS.
 - WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
 - DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
 - DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
 - INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

- INSTRUCTION NOTE:**
- L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
 - W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
 - L2 IS SPAN FOR DISCONTINUOUS MULLION.
 - P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION. TAKE MAXIMUM PANEL WIDTH, 'P'.
 - THE LESSER OF TABLE D.4 AND D.5 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE



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 #:

FL17868

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **JW060**

SHEET:

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s:\projects\jeld-wen\fboc-20-1227-fbc-submittal-per-update\17868-1\per-6278_wj060\mullion\dwgs\jw060.dwg

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Maximum design pressure capacity chart (psf):

| L1 - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | |
|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.5 | 76.8 | 70.4 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 88.0 | 78.2 | 70.4 | 64.0 | 58.6 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 86.2 | 75.4 | 67.0 | 60.3 | 54.8 | 50.3 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 | 75.4 | 66.0 | 58.6 | 52.8 | 48.0 | 44.0 |
| 54.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.4 | 84.9 | 77.9 | 66.7 | 58.4 | 51.9 | 46.7 | 42.5 | 38.9 |
| 60.0 | 100.0 | 100.0 | 94.6 | 84.1 | 75.7 | 68.8 | 63.1 | 54.1 | 47.3 | 42.0 | 37.8 | 34.4 | 31.5 |
| 66.0 | 100.0 | 89.4 | 78.2 | 69.5 | 62.5 | 56.9 | 52.1 | 44.7 | 39.1 | 34.7 | 31.3 | 28.4 | 26.1 |
| 72.0 | 87.6 | 75.1 | 65.7 | 58.4 | 52.6 | 47.8 | 43.8 | 37.5 | 32.8 | 29.2 | 26.3 | 23.9 | 21.9 |
| 78.0 | 74.6 | 64.0 | 56.0 | 49.8 | 44.8 | 40.7 | 37.3 | 32.0 | 28.0 | 24.9 | 22.4 | 20.4 | 18.7 |
| 84.0 | 64.4 | 55.2 | 48.3 | 42.9 | 38.6 | 35.1 | 32.2 | 27.6 | 24.1 | 21.5 | 19.3 | 17.6 | 16.1 |
| 90.0 | 53.3 | 45.7 | 40.0 | 35.5 | 32.0 | 29.1 | 26.7 | 22.8 | 20.0 | 17.8 | 16.0 | - | - |
| 96.0 | 43.9 | 37.7 | 32.9 | 29.3 | 26.4 | 24.0 | 22.0 | 18.8 | 16.5 | - | - | - | - |
| 102.0 | 36.6 | 31.4 | 27.5 | 24.4 | 22.0 | 20.0 | 18.3 | 15.7 | - | - | - | - | - |
| 108.0 | 30.9 | 26.4 | 23.1 | 20.6 | 18.5 | 16.8 | 15.4 | - | - | - | - | - | - |
| 114.0 | 26.2 | 22.5 | 19.7 | 17.5 | 15.7 | - | - | - | - | - | - | - | - |
| 120.0 | 22.5 | 19.3 | 16.9 | - | - | - | - | - | - | - | - | - | - |

Maximum design pressure capacity chart (psf):

| L2 - Mull Length (in) | P - Tributary Width (in) | | | | | | | | | | | | | | | | |
|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 94.9 | 90.1 | 86.8 | 84.5 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| 48.0 | 92.7 | 84.5 | 78.4 | 73.7 | 70.2 | 67.6 | 65.7 | 64.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 |
| 54.0 | 79.9 | 72.4 | 66.8 | 62.4 | 59.0 | 56.3 | 54.3 | 52.7 | 50.7 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 |
| 56.0 | 76.4 | 69.1 | 63.6 | 59.4 | 56.0 | 53.4 | 51.3 | 49.7 | 47.5 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 60.0 | 70.2 | 63.4 | 58.2 | 54.1 | 50.9 | 48.3 | 46.2 | 44.6 | 42.3 | 41.0 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 |
| 66.0 | 62.6 | 56.3 | 51.5 | 47.7 | 44.7 | 42.3 | 40.3 | 38.6 | 36.2 | 34.7 | 33.8 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 |
| 72.0 | 56.5 | 50.7 | 46.2 | 42.7 | 39.9 | 37.6 | 35.7 | 34.1 | 31.7 | 30.0 | 29.0 | 28.4 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 |
| 78.0 | 51.5 | 46.1 | 41.9 | 38.6 | 36.0 | 33.8 | 32.0 | 30.5 | 28.2 | 26.5 | 25.4 | 24.6 | 24.1 | 24.0 | 24.0 | 24.0 | 24.0 |
| 84.0 | 47.3 | 42.3 | 38.4 | 35.3 | 32.8 | 30.7 | 29.0 | 27.6 | 25.4 | 23.7 | 22.5 | 21.7 | 21.1 | 20.8 | 20.7 | 20.7 | 20.7 |
| 90.0 | 43.7 | 39.0 | 35.3 | 32.4 | 30.1 | 28.2 | 26.6 | 25.2 | 23.0 | 21.5 | 20.3 | 19.4 | 18.8 | 18.4 | 18.1 | 18.0 | 18.0 |
| 96.0 | 40.7 | 36.2 | 32.8 | 30.0 | 27.8 | 26.0 | 24.5 | 23.2 | 21.1 | 19.6 | 18.4 | 17.6 | 16.9 | 16.4 | 16.1 | 15.9 | 15.8 |
| 102.0 | 38.0 | 33.8 | 30.6 | 28.0 | 25.9 | 24.1 | 22.7 | 21.5 | 19.5 | 18.0 | 16.9 | 16.0 | 15.4 | - | - | - | - |
| 108.0 | 35.7 | 31.7 | 28.6 | 26.2 | 24.2 | 22.5 | 21.2 | 20.0 | 18.1 | 16.7 | 15.6 | - | - | - | - | - | - |
| 114.0 | 33.6 | 29.8 | 26.9 | 24.6 | 22.7 | 21.1 | 19.8 | 18.7 | 16.9 | 15.5 | - | - | - | - | - | - | - |
| 120.0 | 31.7 | 28.2 | 25.4 | 23.2 | 21.4 | 19.9 | 18.6 | 17.6 | 15.8 | - | - | - | - | - | - | - | - |

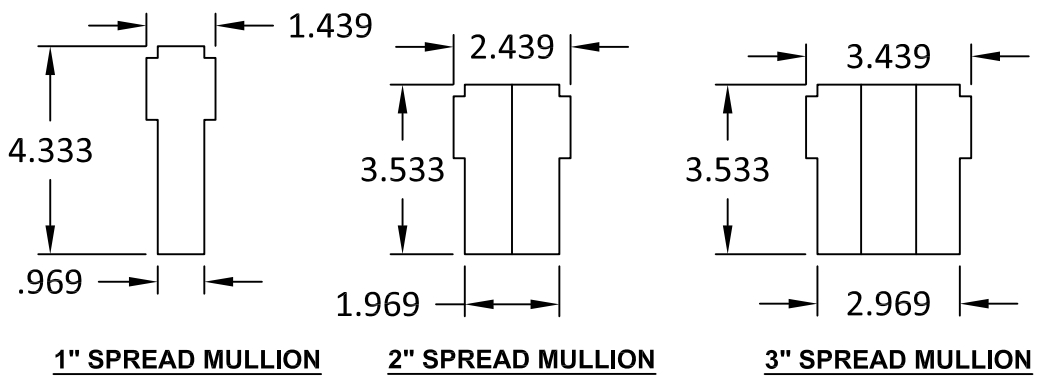


TABLE D.6: TWO WAY MULLIONS "1" SOLID SPREAD MULLION"

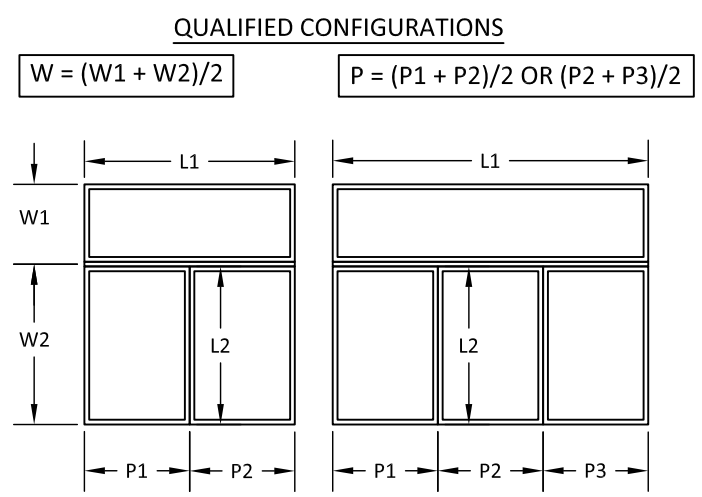
- "TWO-WAY" MULLIONS REFER TO EITHER 'T' TYPE ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEETS 4-6 ONLY; 1", 2", AND 3" SOLID SPREAD MULLION ASSEMBLIES.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED ABOVE SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

TABLE D.7: DISCONTINUOUS MULLION

- THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'T' INTERSECTIONS.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

INSTRUCTION NOTE:

- L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
- W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
- L2 IS SPAN FOR DISCONTINUOUS MULLION.
- P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION. TAKE MAXIMUM PANEL WIDTH, 'P'.
- THE LESSER OF TABLE D.6 AND D.7 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE



3737 LAKEPORT BLVD
KLAMATH FALLS, OR 97601
PH: (541) 882-3451 FAX: (541) 850-2609

TITLE: **SITELINE OR W-5500 CLAD CASEMENT/AWING MULLION**

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 |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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

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

FL #:

FL17868

DATE: **09.01.17**

| | |
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| DWG. BY: CL | CHK. BY: HFN |
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SCALE: **NTS**

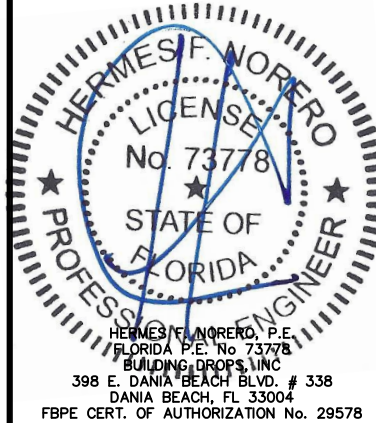
DWG. #: **JW060**

TITLE: **SITELINE OR W-5500 CLAD CASEMENT/AWING MULLION**
"T" CONFIG. "1" SOLID SPREAD MULLION"

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 |
|------------------------|----|---------|
| REV. PER NEW MULL DATA | MS | 6.10.16 |
| 6TH FBC CODE CHANGE | CL | 9.1.17 |
| W-5500 CLAD ADDITION | LL | 6.11.19 |
| DP CHARTS UPDATED | LL | 1.26.21 |

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 #:

FL17868

DATE: **09.01.17**

DWG. BY: **CL** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **JW060**

SHEET:

24

TABLE D.8: TWO WAY MULLIONS "1" SOLID SPREAD MULLION"

- "TWO-WAY" MULLIONS REFER TO EITHER "T" TYPE ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE DESIGN PRESSURE TABLE HEREIN APPLIES TO MULLION MEMBERS ON SHEETS 4-6 ONLY; 1", 2", AND 3" SOLID SPREAD MULLION ASSEMBLIES.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED ABOVE SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

TABLE D.9: DISCONTINUOUS MULLION WITH ADDITIONAL FASTENERS

- THE DESIGN PRESSURE TABLE HEREIN IS LIMITED BY CAPACITY OF MULL JOINT AT 'T' INTERSECTIONS WITH USE OF ADDITIONAL FASTENERS THROUGH FRAME, REFER TO DETAIL E/8 FOR INSTALLATION OF FASTENERS ADJACENT TO 'T' INTERSECTIONS.
- WINDOW ASSEMBLIES MAY BE INTERMIXED COMBINATIONS OF FRAMES & MULLIONS AS SHOWN ON SHEETS 2-7.
- DESIGN PRESSURES LISTED SHALL BE READ AS POSITIVE AND NEGATIVE PRESSURES.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- INDIVIDUAL WINDOW UNITS SHALL BE UNDER SEPARATE APPROVAL.

INSTRUCTION NOTE:

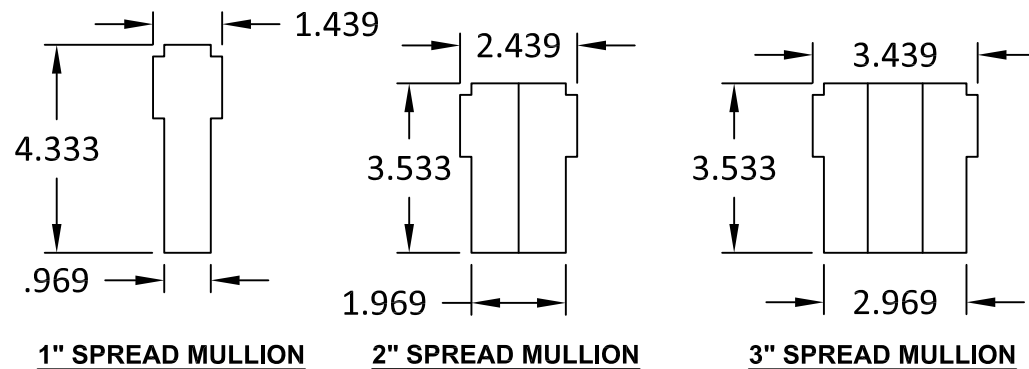
- L1 IS SPAN FOR CONTINUOUS MULLION ASSEMBLY
- W1 & W2 ARE TRIBUTARY WIDTHS FOR CONTINUOUS MULLION.
- L2 IS SPAN FOR DISCONTINUOUS MULLION.
- P1, P2 & P3 ARE TRIBUTARY WIDTHS FOR DISCONTINUOUS MULLION. TAKE MAXIMUM PANEL WIDTH, 'P'.
- THE LESSER OF TABLE D.8 AND D.9 SHALL GOVERN THE MULL ASSEMBLY DESIGN PRESSURE

Maximum design pressure capacity chart (psf):

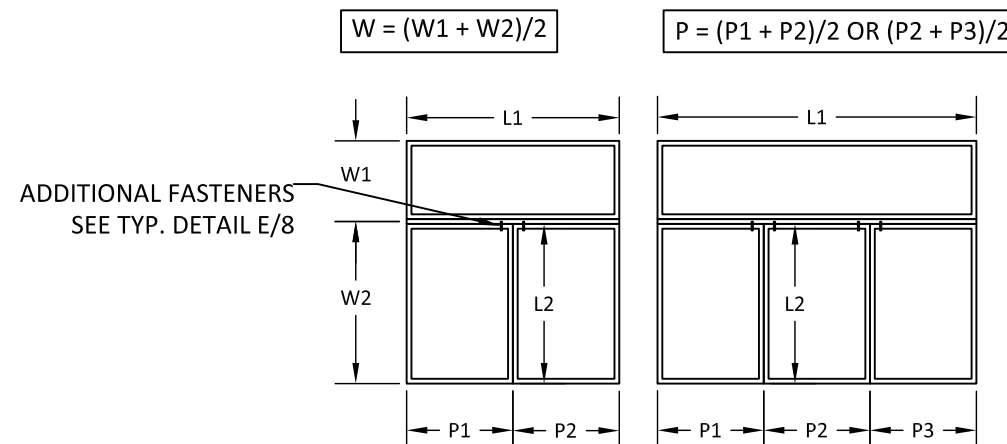
| L1 - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | |
|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.8 | 84.5 | 76.8 | 70.4 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 88.0 | 78.2 | 70.4 | 64.0 | 58.6 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 86.2 | 75.4 | 67.0 | 60.3 | 54.8 | 50.3 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 88.0 | 75.4 | 66.0 | 58.6 | 52.8 | 48.0 | 44.0 |
| 54.0 | 100.0 | 100.0 | 100.0 | 100.0 | 93.4 | 84.9 | 77.9 | 66.7 | 58.4 | 51.9 | 46.7 | 42.5 | 38.9 |
| 60.0 | 100.0 | 100.0 | 94.6 | 84.1 | 75.7 | 68.8 | 63.1 | 54.1 | 47.3 | 42.0 | 37.8 | 34.4 | 31.5 |
| 66.0 | 100.0 | 89.4 | 78.2 | 69.5 | 62.5 | 56.9 | 52.1 | 44.7 | 39.1 | 34.7 | 31.3 | 28.4 | 26.1 |
| 72.0 | 87.6 | 75.1 | 65.7 | 58.4 | 52.6 | 47.8 | 43.8 | 37.5 | 32.8 | 29.2 | 26.3 | 23.9 | 21.9 |
| 78.0 | 74.6 | 64.0 | 56.0 | 49.8 | 44.8 | 40.7 | 37.3 | 32.0 | 28.0 | 24.9 | 22.4 | 20.4 | 18.7 |
| 84.0 | 64.4 | 55.2 | 48.3 | 42.9 | 38.6 | 35.1 | 32.2 | 27.6 | 24.1 | 21.5 | 19.3 | 17.6 | 16.1 |
| 90.0 | 53.3 | 45.7 | 40.0 | 35.5 | 32.0 | 29.1 | 26.7 | 22.8 | 20.0 | 17.8 | 16.0 | - | - |
| 96.0 | 43.9 | 37.7 | 32.9 | 29.3 | 26.4 | 24.0 | 22.0 | 18.8 | 16.5 | - | - | - | - |
| 102.0 | 36.6 | 31.4 | 27.5 | 24.4 | 22.0 | 20.0 | 18.3 | 15.7 | - | - | - | - | - |
| 108.0 | 30.9 | 26.4 | 23.1 | 20.6 | 18.5 | 16.8 | 15.4 | - | - | - | - | - | - |
| 114.0 | 26.2 | 22.5 | 19.7 | 17.5 | 15.7 | - | - | - | - | - | - | - | - |
| 120.0 | 22.5 | 19.3 | 16.9 | - | - | - | - | - | - | - | - | - | - |

Maximum design pressure capacity chart (psf):

| L2 - Mull Length (in) | P - Tributary Width (in) | | | | | | | | | | | | | | | | |
|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 |
| 24.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 30.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 36.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 42.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 48.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.1 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 |
| 54.0 | 100.0 | 100.0 | 100.0 | 95.1 | 89.9 | 85.8 | 82.7 | 80.2 | 77.2 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 |
| 56.0 | 100.0 | 100.0 | 96.9 | 90.4 | 85.3 | 81.3 | 78.1 | 75.7 | 72.4 | 71.0 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 |
| 60.0 | 100.0 | 96.5 | 88.6 | 82.4 | 77.5 | 73.6 | 70.4 | 67.9 | 64.4 | 62.4 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 |
| 66.0 | 95.4 | 85.8 | 78.5 | 72.7 | 68.1 | 64.4 | 61.3 | 58.8 | 55.2 | 52.8 | 51.5 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 |
| 72.0 | 86.1 | 77.2 | 70.4 | 65.0 | 60.7 | 57.2 | 54.3 | 51.9 | 48.3 | 45.8 | 44.1 | 43.2 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 |
| 78.0 | 78.5 | 70.2 | 63.9 | 58.8 | 54.8 | 51.5 | 48.7 | 46.5 | 42.9 | 40.4 | 38.6 | 37.4 | 36.8 | 36.6 | 36.6 | 36.6 | 36.6 |
| 84.0 | 72.1 | 64.4 | 58.4 | 53.7 | 49.9 | 46.8 | 44.2 | 42.0 | 38.6 | 36.1 | 34.3 | 33.0 | 32.2 | 31.7 | 31.5 | 31.5 | 31.5 |
| 90.0 | 66.6 | 59.4 | 53.8 | 49.4 | 45.9 | 42.9 | 40.4 | 38.4 | 35.1 | 32.7 | 30.9 | 29.6 | 28.6 | 28.0 | 27.6 | 27.5 | 27.5 |
| 96.0 | 61.9 | 55.2 | 49.9 | 45.8 | 42.4 | 39.6 | 37.3 | 35.3 | 32.2 | 29.8 | 28.1 | 26.7 | 25.7 | 25.0 | 24.5 | 24.2 | 24.1 |
| 102.0 | 57.9 | 51.5 | 46.5 | 42.6 | 39.4 | 36.8 | 34.6 | 32.7 | 29.7 | 27.5 | 25.7 | 24.4 | 23.4 | 22.6 | 22.1 | 21.7 | 21.5 |
| 108.0 | 54.3 | 48.3 | 43.6 | 39.9 | 36.8 | 34.3 | 32.2 | 30.4 | 27.6 | 25.4 | 23.8 | 22.5 | 21.5 | 20.7 | 20.1 | 19.6 | 19.3 |
| 114.0 | 51.2 | 45.4 | 41.0 | 37.4 | 34.6 | 32.2 | 30.2 | 28.5 | 25.7 | 23.7 | 22.1 | 20.8 | 19.8 | 19.0 | 18.4 | 17.9 | 17.6 |
| 120.0 | 48.4 | 42.9 | 38.7 | 35.3 | 32.6 | 30.3 | 28.4 | 26.7 | 24.1 | 22.1 | 20.6 | 19.4 | 18.4 | 17.6 | 17.0 | 16.5 | 16.1 |



QUALIFIED CONFIGURATIONS



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