

ANDERSEN CORPORATION

A-SERIES REINFORCED MULLION

ASSEMBLY



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- FOR INSTALLATION THROUGH 2X BUCK USE #10 WOOD SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - MINIMUM EMBEDMENT OF 1-1/2" INTO WOOD
 - MINIMUM EDGE DISTANCE OF 1/2"
 - MINIMUM O.C. DISTANCE OF 3/4"
- FOR INSTALLATION THROUGH METAL FRAME USE #10 SELF-DRILLING, SAE GR. 5, TYPE SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.
 - THREE (3) THREADS MINIMUM PENETRATION BEYOND METAL FRAME WALL.
 - MINIMUM EDGE DISTANCE OF 1/2"
 - MINIMUM O.C. DISTANCE OF 3/4"
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE SHEATHING, & 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.
- ASSEMBLY SCREWS, #10 FH SCREWS, ARE LOCATED THROUGH SPACER CLIPS (ITEM #3) AT 24" O.C.
- 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 COMPRESSIVE STRENGTH OF 3000 PSI.
 - GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
 - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM WALL THICKNESS OF 54 MILS (16 GA.) WHEN THROUGH GUSSET INSTALLATION.
 - ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 5TH EDITION (2014) FLORIDA BUILDING CODE (FBC) INCLUDING HVHZ, 2012 INTERNATIONAL BUILDING CODE & 2012 INTERNATIONAL RESIDENTIAL CODE. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE 2014 FBC AND THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD 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. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE PERA OR AHJ.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW/DOOR FRAME MATERIAL: *PONDEROSA PINE OR EQUIVALENT (S.G.=0.45)*.
- IN ACCORDANCE WITH 2014 FBC, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES.
- IN ACCORDANCE WITH THE 2014 FBC, DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
 - X: OPERABLE PANEL
 - O: FIXED PANEL
- CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.
- MULL ASSEMBLIES ARE QUALIFIED FOR TWO OR MORE UNITS PER OPENING IN THE FOLLOWING CONFIGURATIONS:
 - "ONE WAY" - RIBBON OR STACKED MULLIONS
 - "TWO WAY" - 'X' OR 'T' MULLIONS
- GROUPS I, II, & III CONSIST OF 4-9/16" MULLIONS (ITEM #1A). GROUPS IV, V, & VI CONSIST OF 6-9/16" MULLIONS (ITEM #1B)

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| PRODUCT ABBREVIATION KEY | |
|--------------------------|-----------------------------------|
| ABBREVIATION | PRODUCT NAME |
| Flexi = | Flexiframe Window |
| FW = | A Series Specialty Window |
| Arch. = | Specialty Window |
| APW = | A Series Picture Window |
| ATF = | A Series Transom/Fixed |
| AAN = | A Series Awning |
| ATV = | A Series Venting Transom |
| ACW = | A Series Casement |
| ADH = | A Series Double Hung |
| FWGD = | A Series Frenchwood Glider Door |
| FWOD = | A Series Frenchwood Outswing Door |
| FWHID = | A Series Frenchwood Inswing Door |
| FWSLT = | A Series Sidelite/Transom Door |

MULLING INSTRUCTIONS:

- STEP 1: ESTABLISH MULL ASSEMBLY FRAME TYPES AND MULL CONFIGURATION.
- STEP 2: VERIFY MULL ASSEMBLY CONSTRUCTION FROM SHEETS 2-7 (REFER TO ABBREVIATION TABLE ABOVE) AND DETERMINE GROUP NUMBER.
- STEP 3: DETERMINE ALLOWABLE LOAD OF MULL ASSEMBLY FROM APPLICABLE LOAD TABLE BASED ON MULL GROUP NUMBER, REFER TO SHEETS 9-12.
- STEP 4: INSTALL MULLION BASED ON APPLICABLE SPECIFICATIONS SHOWN ON SHEET 8.

MISSILE IMPACT RATING

SMALL AND LARGE MISSILE IMPACT RATED

TITLE: A SERIES REINFORCED MULLION ASSEMBLY GENERAL AND INSTALLATION NOTES

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

PH: (954) 744-4738

| NO. | DESCRIPTION | BY | DATE | |
|-----|------------------------------|----|----------|----|
| | | | MS | MS |
| A | REV. TO INCLUDE 6-9/16" MULL | | 02.09.16 | |
| B | UPDATE MULL TABLES & T.O.C. | | 07.11.16 | |

HERMES F. NORRERO, P.E.
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398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

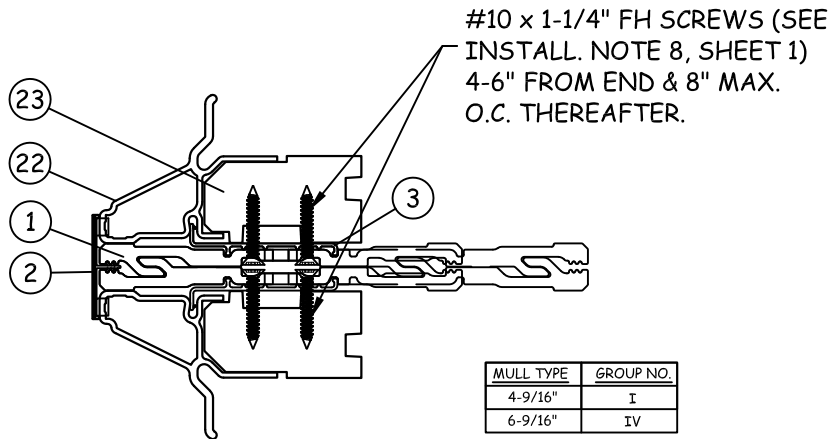
DWG #: AWD086

SHEET: 1 OF 15

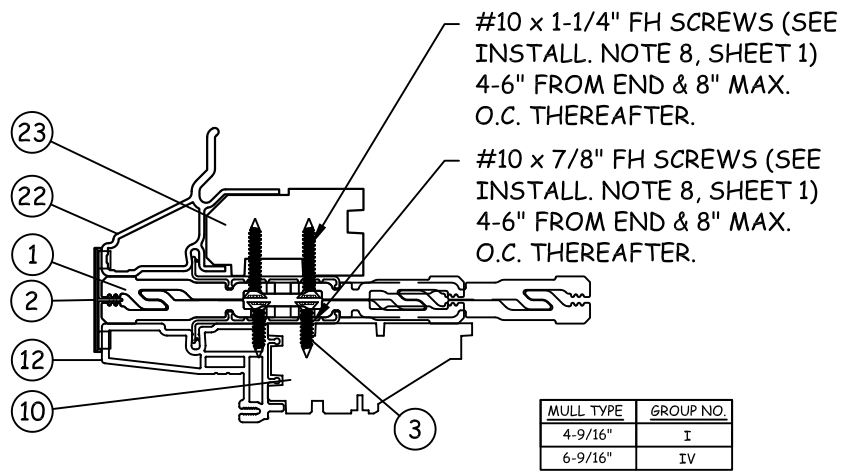
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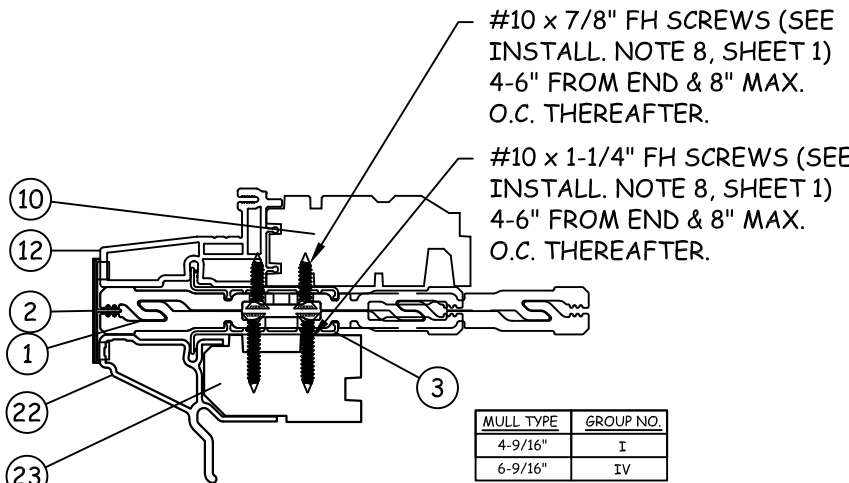
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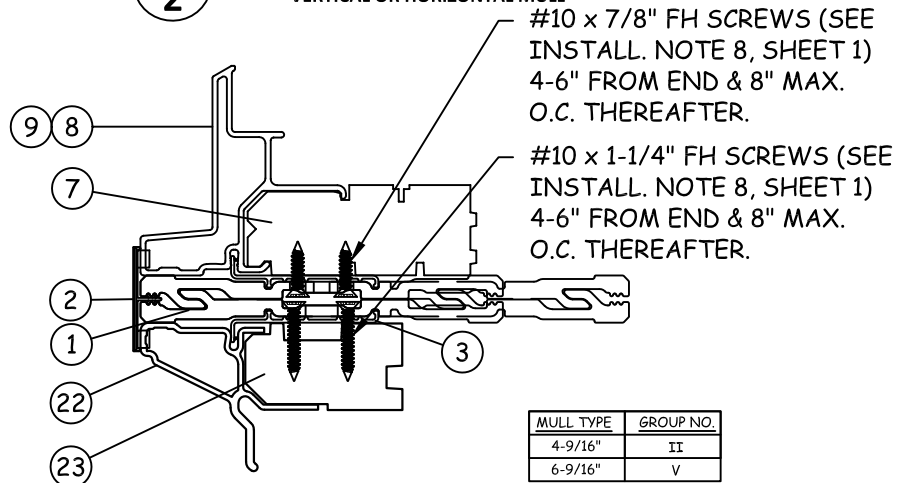
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FLEXI TO FLEXI
VERTICAL OR HORIZONTAL MULL



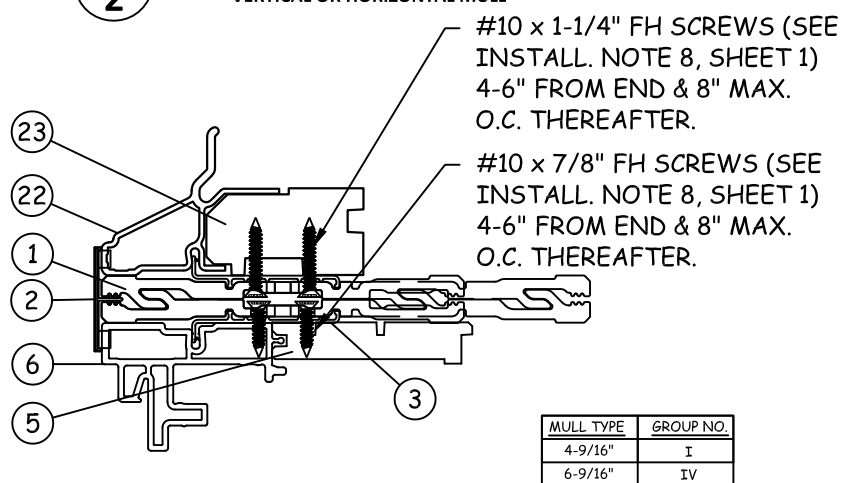
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FLEXI TO AAN/ATV/ACW
VERTICAL OR HORIZONTAL MULL



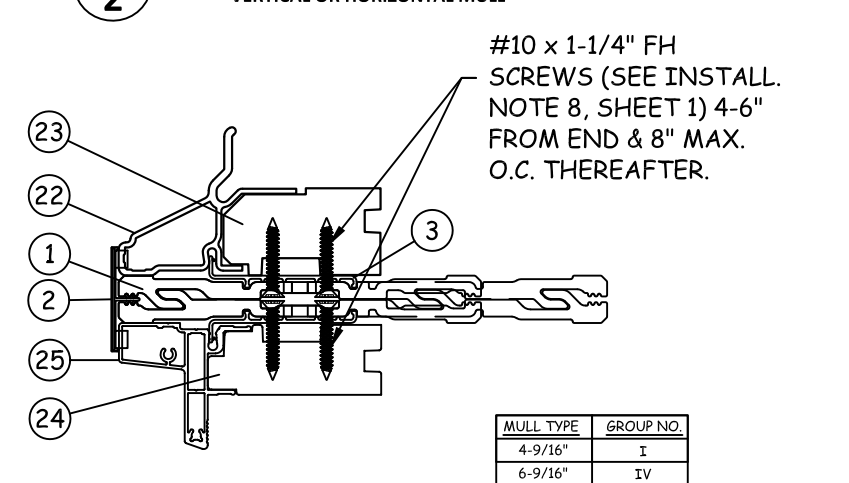
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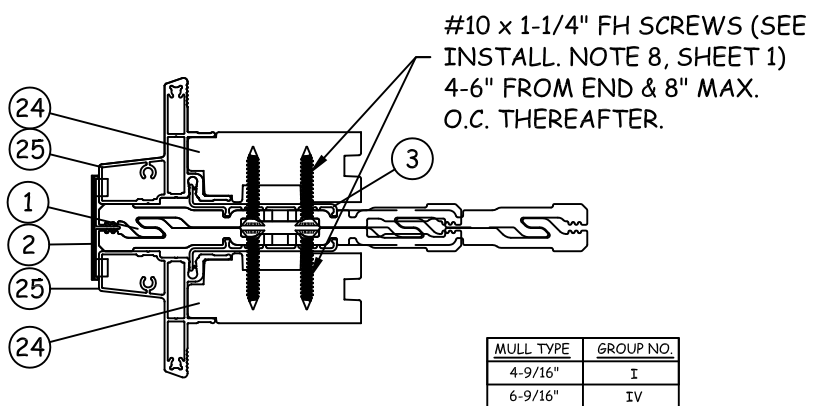
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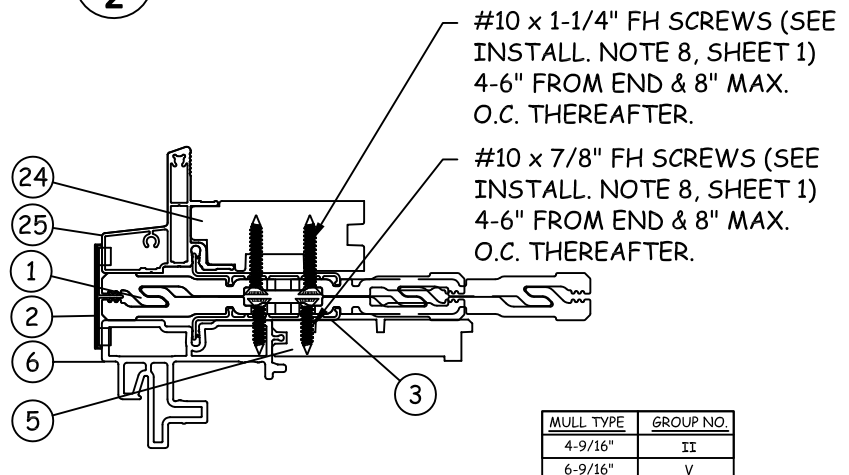
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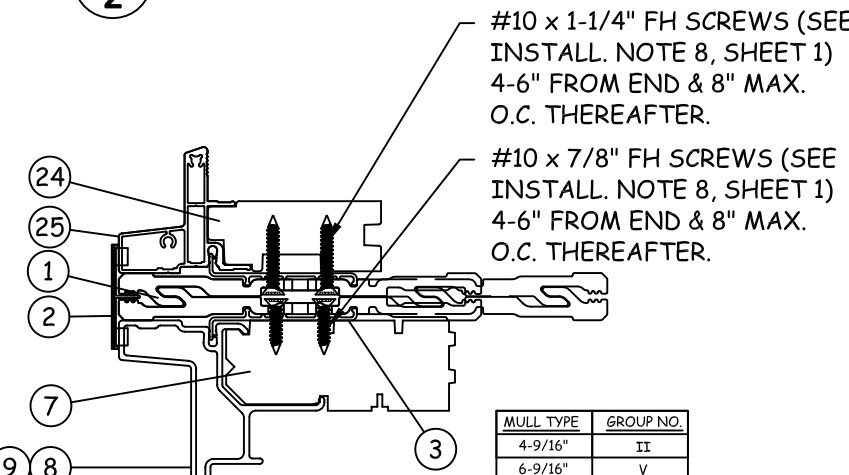
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VERTICAL OR HORIZONTAL MULL



G
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FW TO FW
VERTICAL OR HORIZONTAL MULL



H
2
FW TO ADH
VERTICAL OR HORIZONTAL MULL



I
2
FW TO ATF/APW
VERTICAL OR HORIZONTAL MULL



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TITLE: A SERIES REINFORCED MULLION ASSEMBLY
MULL ASSEMBLY SECTIONS (1)
PREPARED BY: BUILDING DROPS, INC.
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| REVISIONS | | NO. | DESCRIPTION | BY | DATE |
|-----------|------------------------------|-----|-------------|----|----------|
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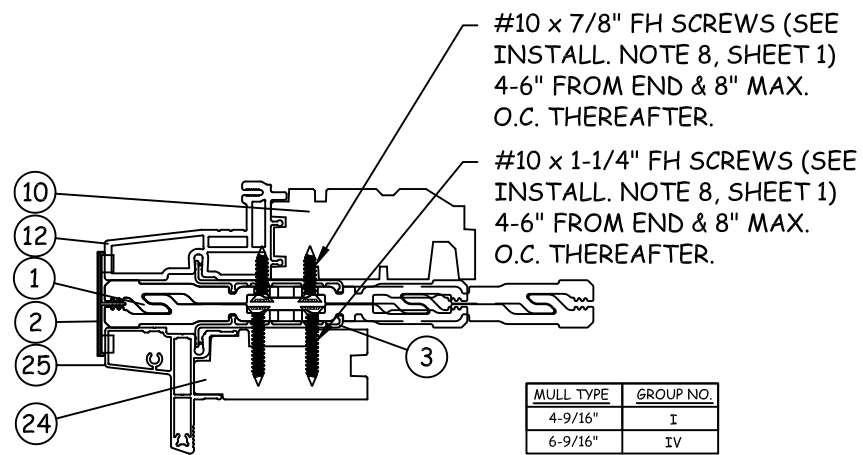
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FLORIDA P. E. NO. 73778
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398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

DWG #: **AWD086**
SHEET: **2 OF 15**

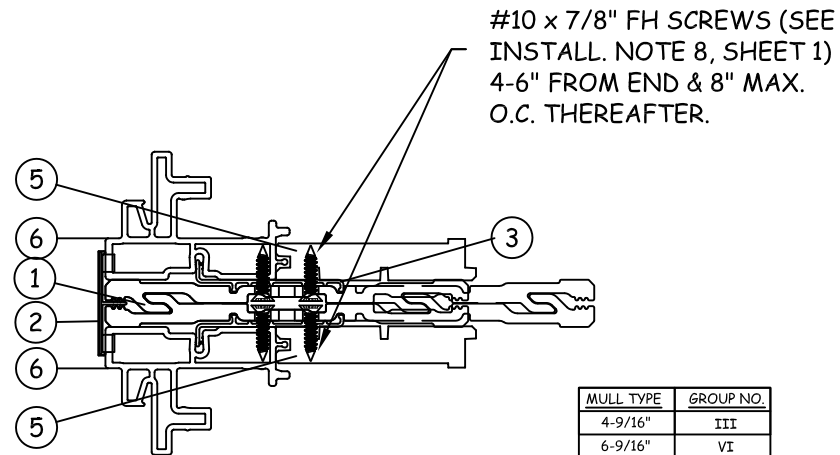
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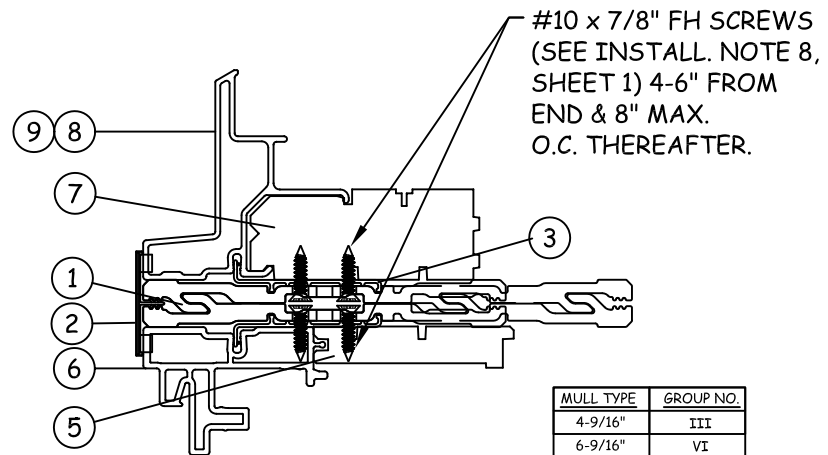


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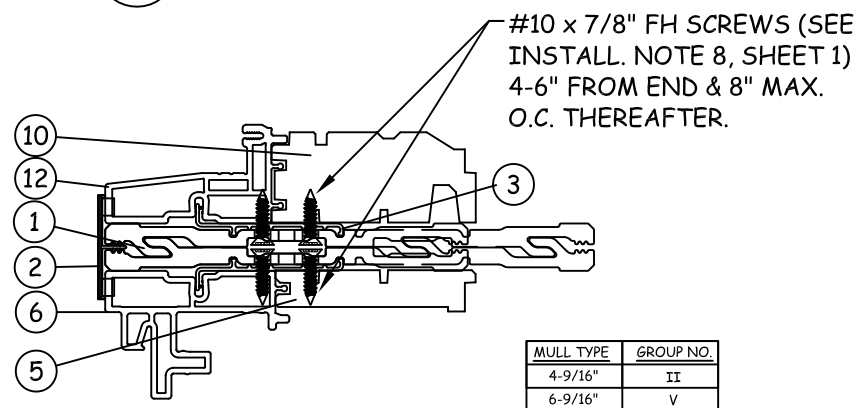
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VERTICAL OR HORIZONTAL MULL



L
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ADH TO ADH
VERTICAL MULL

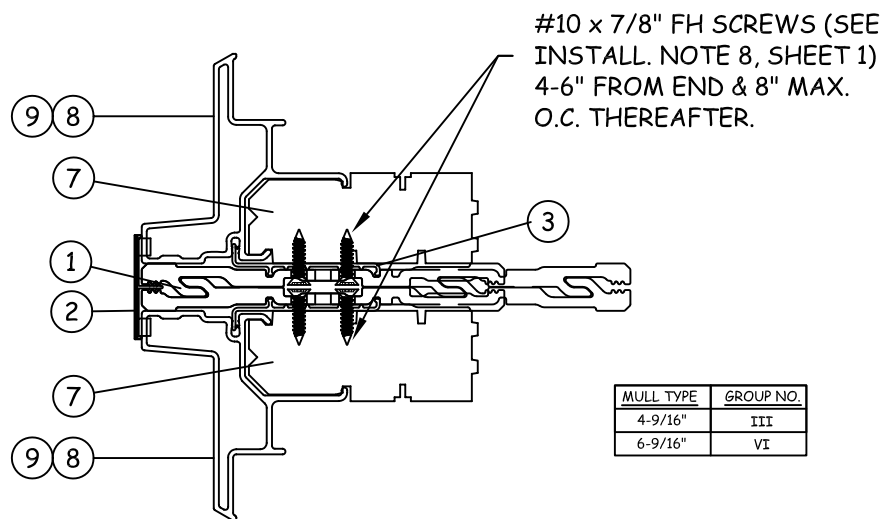


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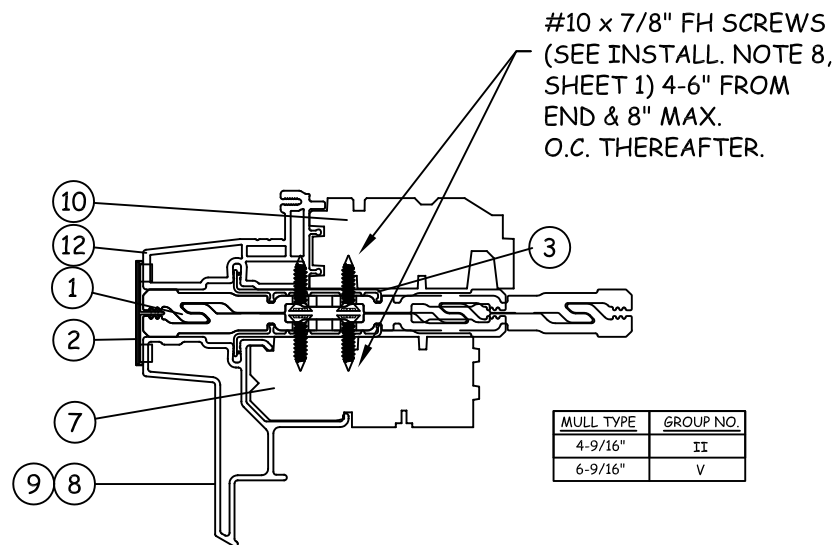


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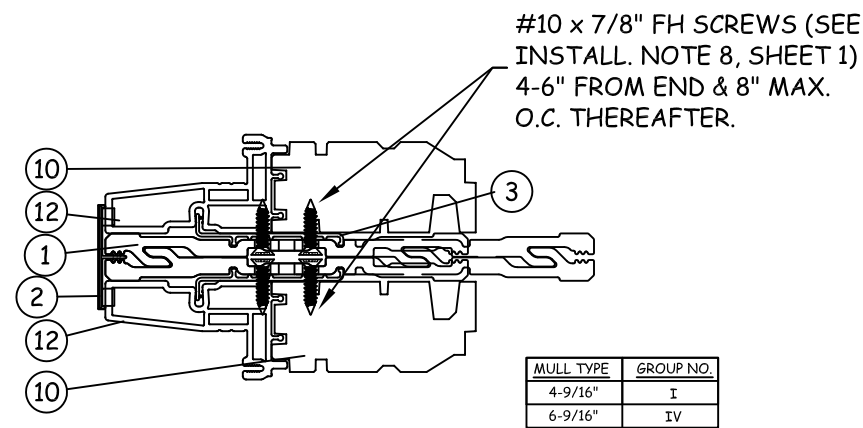
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ACW TO ADH
VERTICAL MULL



P
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ATF/APW TO ATF/APW
VERTICAL OR HORIZONTAL MULL

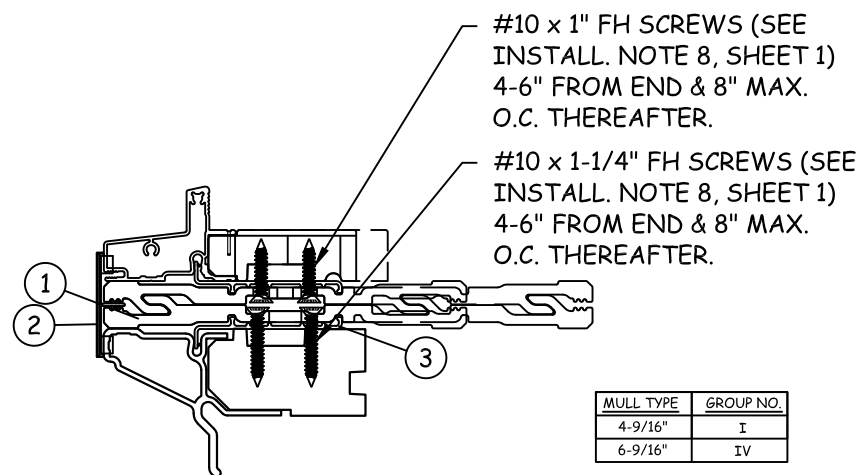


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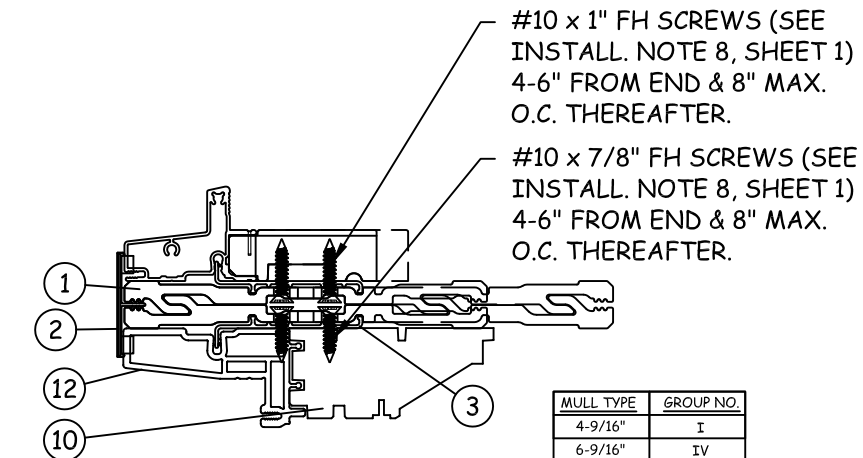


R
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AAN/ATV TO AAN/ATV
VERTICAL OR HORIZONTAL MULL

S
3
ACW TO ACW
VERTICAL OR HORIZONTAL MULL



T
3
ARCH. TO FLEXI
VERTICAL OR HORIZONTAL MULL



U
3
ARCH. TO AAN/ATV
VERTICAL OR HORIZONTAL MULL

V
3
ARCH. TO ACW
VERTICAL OR HORIZONTAL



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TITLE: A SERIES REINFORCED
MULLION ASSEMBLY
MULL ASSEMBLY SECTIONS (2)

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
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| REVISIONS | | BY | DATE |
|-----------|------------------------------|----|----------|
| NO. | DESCRIPTION | | |
| A | REV. TO INCLUDE 6-9/16" MULL | MS | 02.09.16 |

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DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

DWG #: **AWD086**
SHEET: **3 OF 15**

TITLE: A SERIES REINFORCED
 MULLION ASSEMBLY
 MULL ASSEMBLY SECTIONS (3)

PREPARED BY:
 BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD. #338
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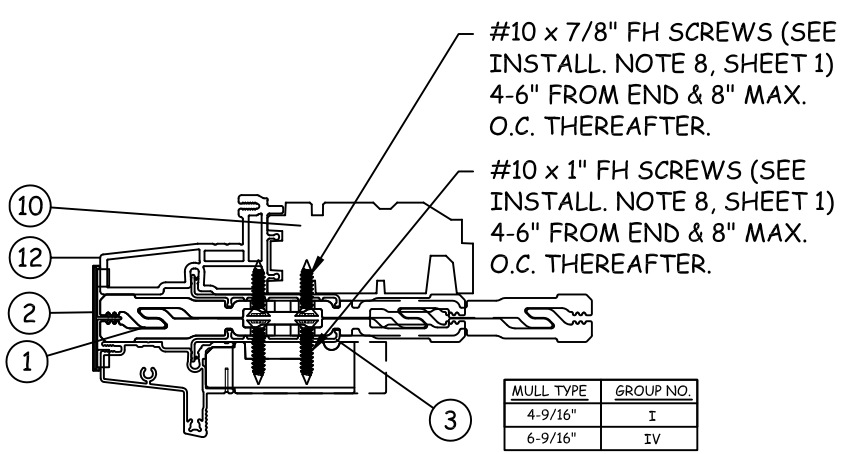
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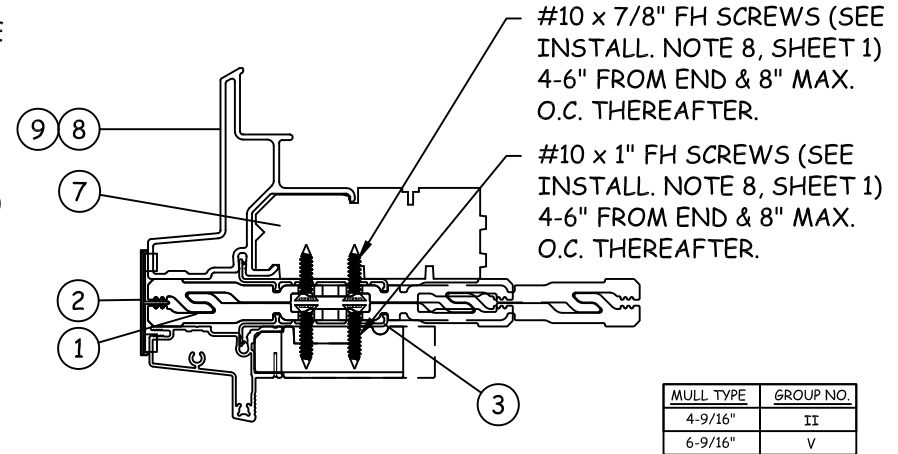
HERMES F. NORRERO, P.E.
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| DWN BY: | LMS |
| CHK BY: | HFN |
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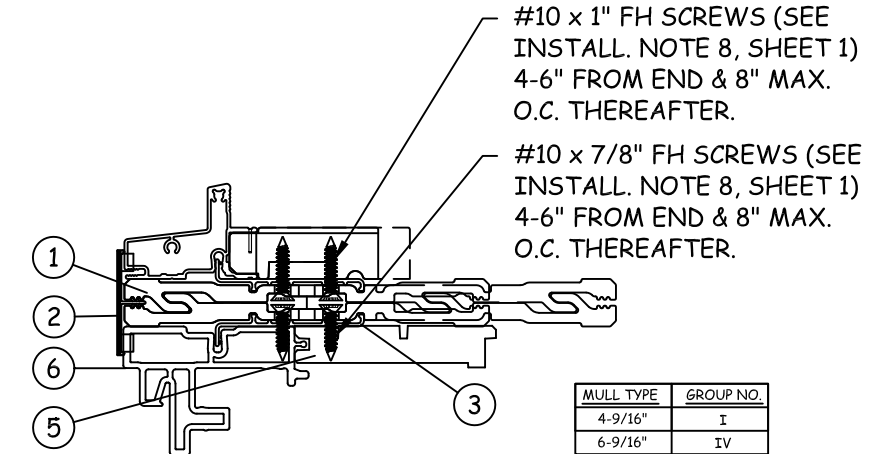
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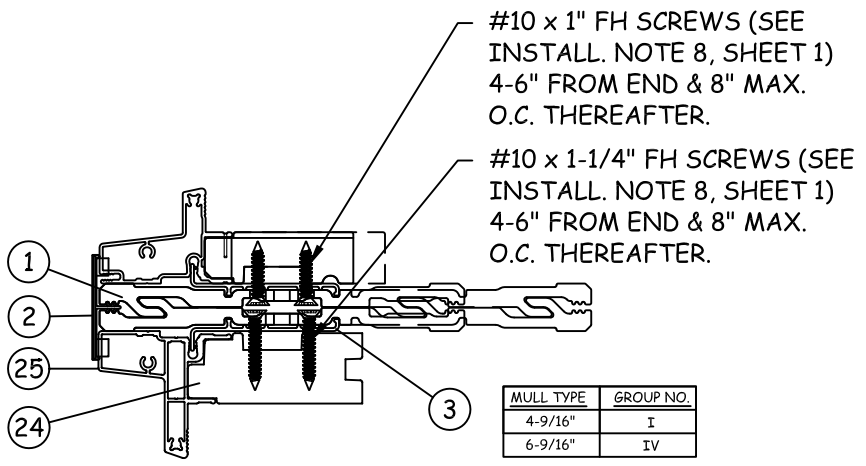
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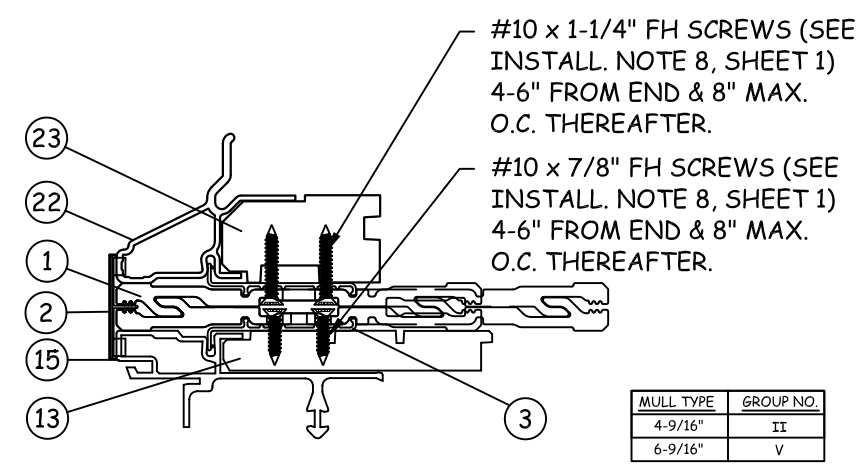
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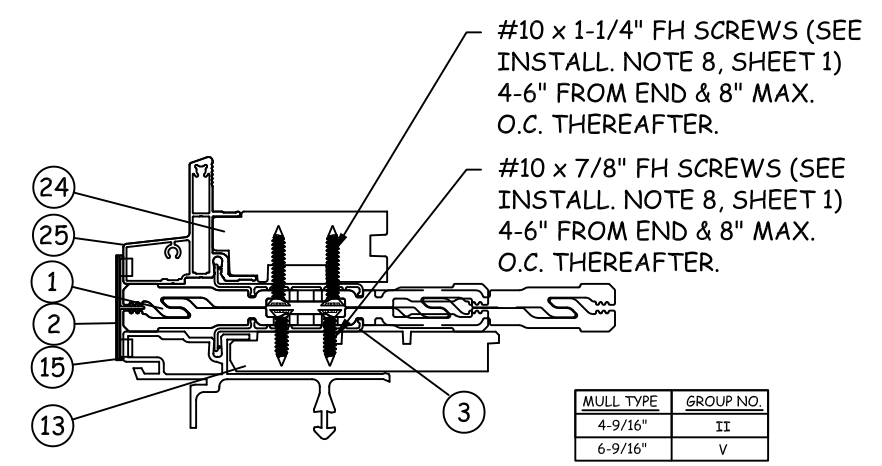
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 VERTICAL OR HORIZONTAL MULL



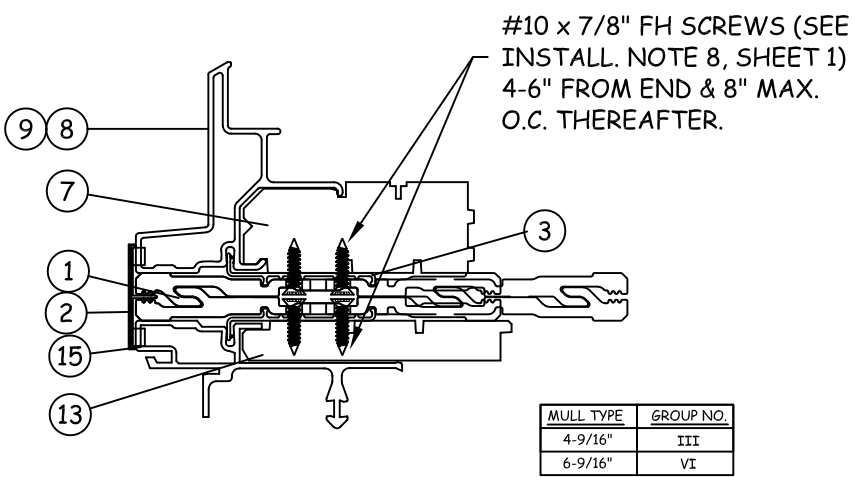
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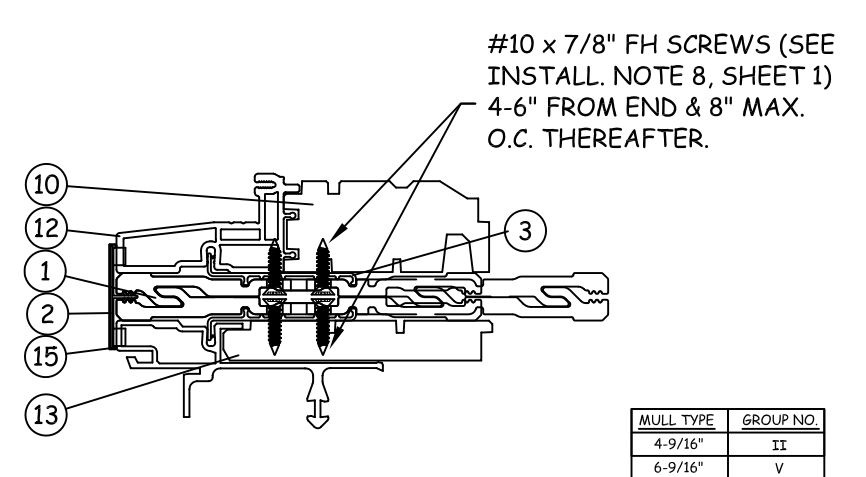
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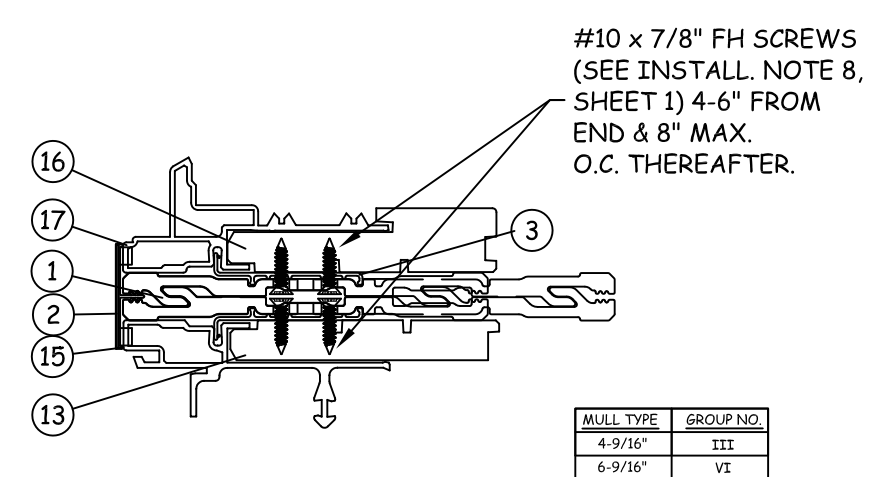
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FW TO FWGD
 VERTICAL OR HORIZONTAL MULL



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ATF TO FWGD
 VERTICAL OR HORIZONTAL MULL



AD
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ATV TO FWGD
 VERTICAL OR HORIZONTAL MULL

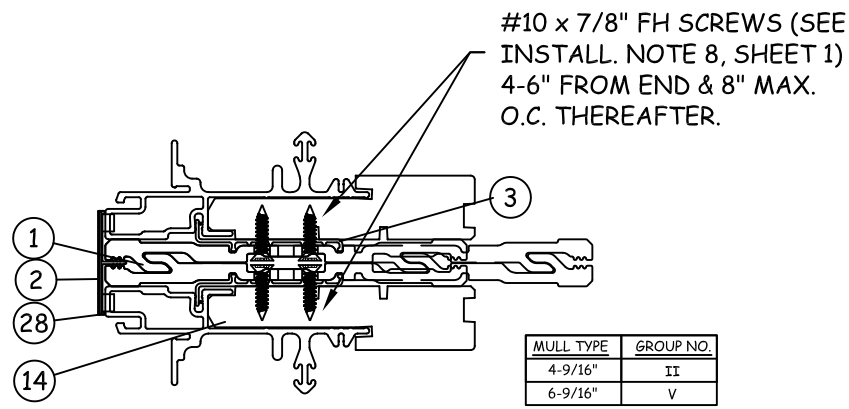


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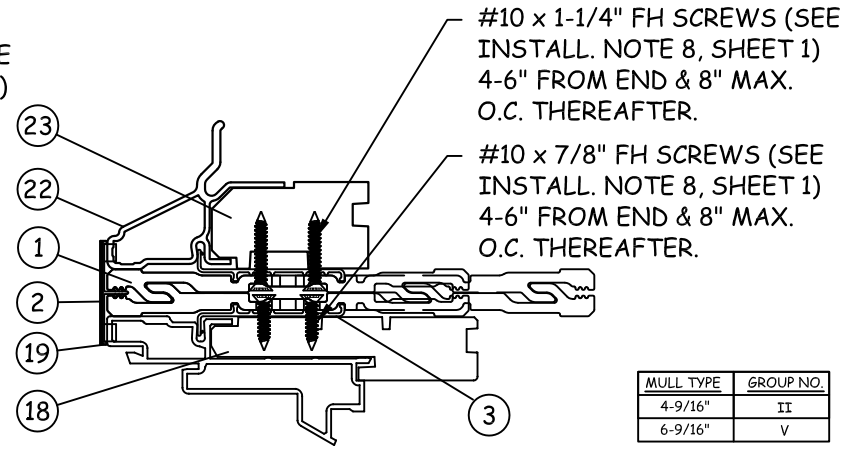
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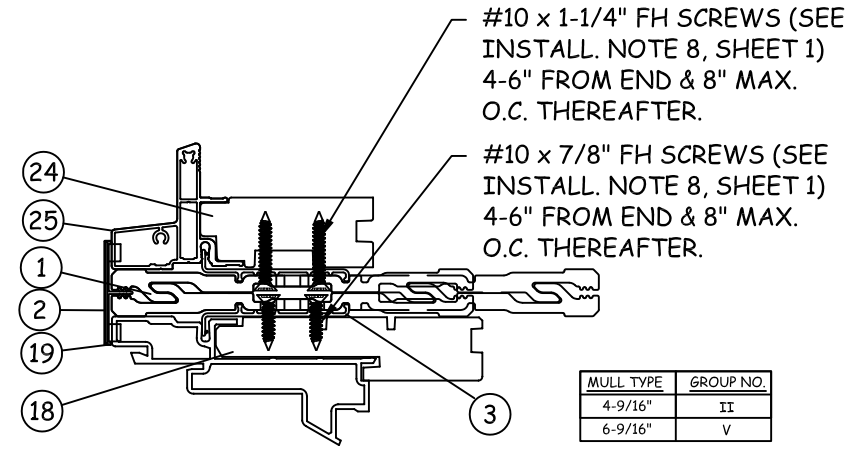
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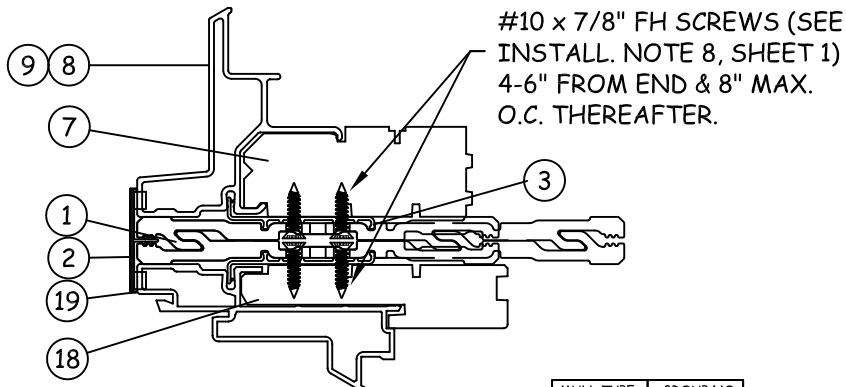
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VERTICAL MULL



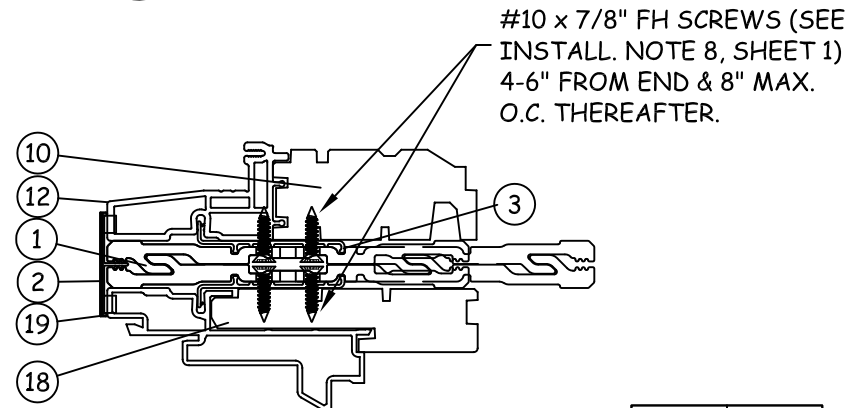
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VERTICAL OR HORIZONTAL MULL



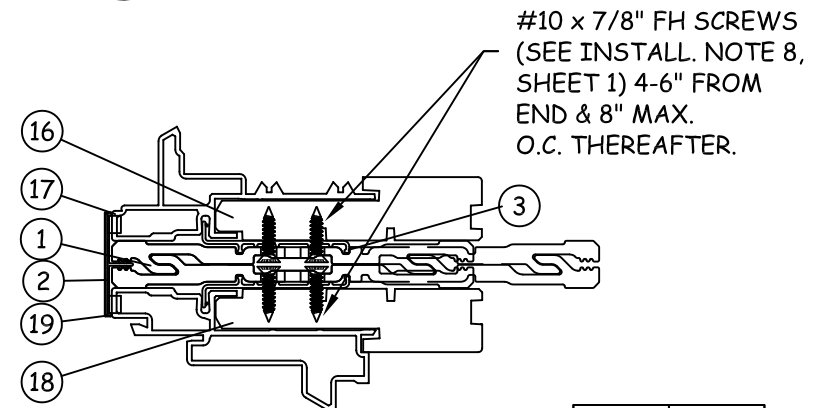
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VERTICAL OR HORIZONTAL MULL



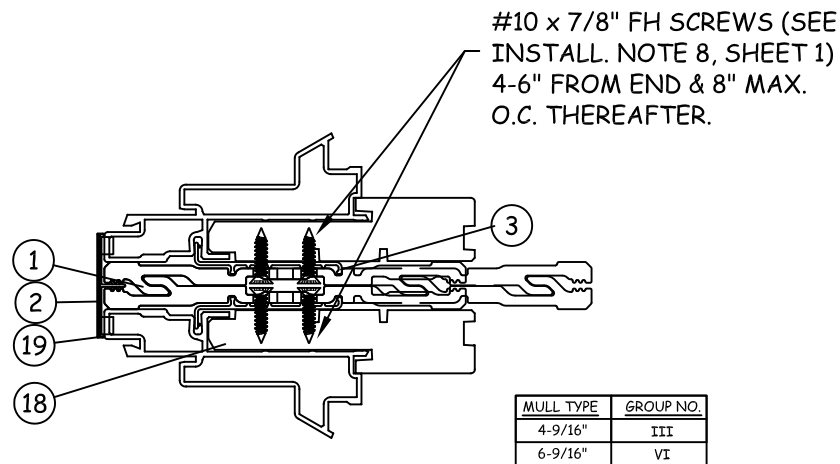
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VERTICAL OR HORIZONTAL MULL



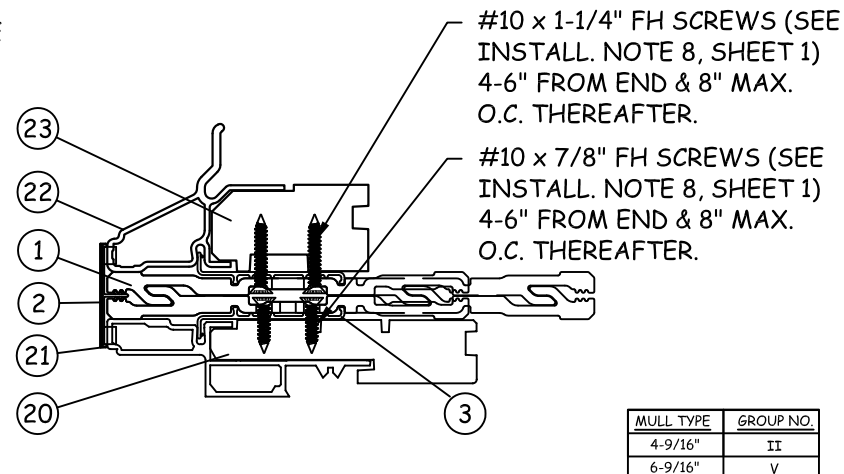
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VERTICAL OR HORIZONTAL MULL



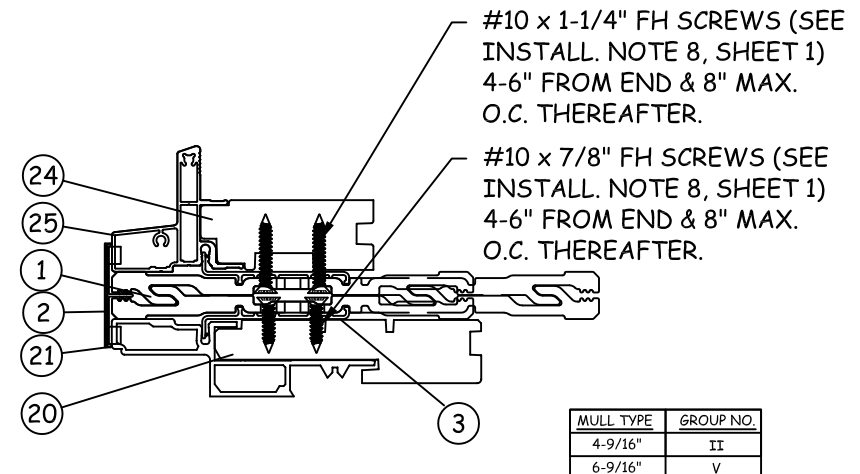
AK
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FWSLT TO FWHD
VERTICAL OR HORIZONTAL MULL



AL
5
FWHD TO FWHD
VERTICAL MULL



AM
5
FLEXI TO FWOD
VERTICAL OR HORIZONTAL MULL



AN
5
FW TO FWOD
VERTICAL OR HORIZONTAL MULL



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BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: A SERIES REINFORCED
MULLION ASSEMBLY
MULL ASSEMBLY SECTIONS (4)

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

| NO. | DESCRIPTION | BY | DATE |
|-----|-------------|----|----------|
| | | MS | 02.09.16 |

| NO. | DESCRIPTION |
|-----|------------------------------|
| A | REV. TO INCLUDE 6-9/16" MULL |

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

DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

DWG #: **AWD086**
SHEET: **5 OF 15**

8/20/2016 7:02 PM

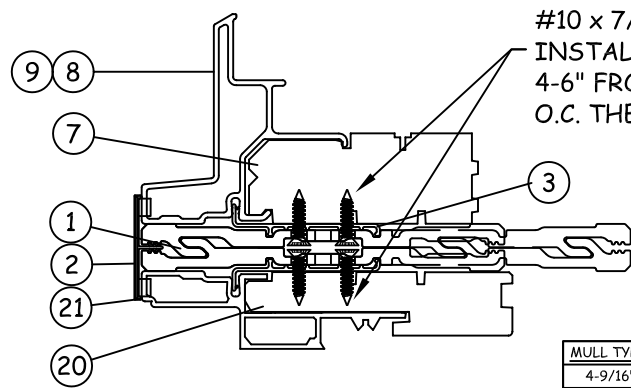
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100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: A SERIES REINFORCED
MULLION ASSEMBLY
MULL ASSEMBLY SECTIONS (5)

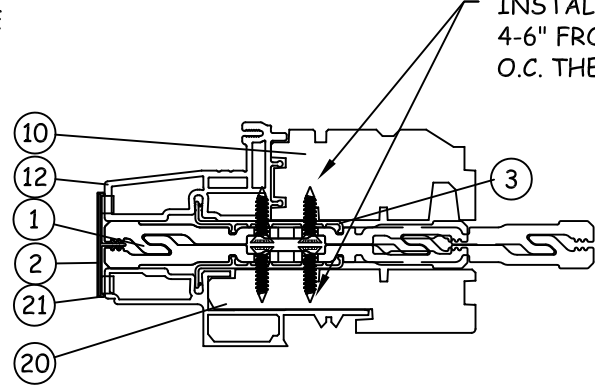
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738



#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1)
4-6" FROM END & 8" MAX.
O.C. THEREAFTER.

| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | III |
| 6-9/16" | VI |

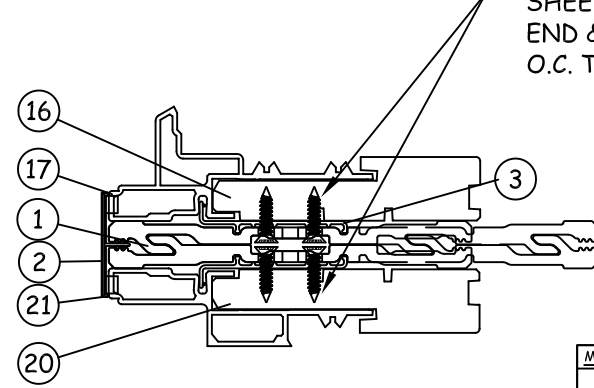
AO
6 ATF TO FWOD
VERTICAL OR HORIZONTAL MULL



#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1)
4-6" FROM END & 8" MAX.
O.C. THEREAFTER.

| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | II |
| 6-9/16" | V |

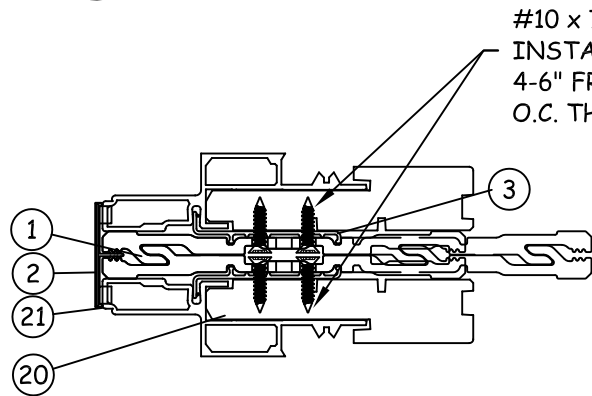
AP
6 ATV TO FWOD
VERTICAL OR HORIZONTAL MULL



#10 x 7/8" FH SCREWS
(SEE INSTALL. NOTE 8,
SHEET 1) 4-6" FROM
END & 8" MAX.
O.C. THEREAFTER.

| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | III |
| 6-9/16" | VI |

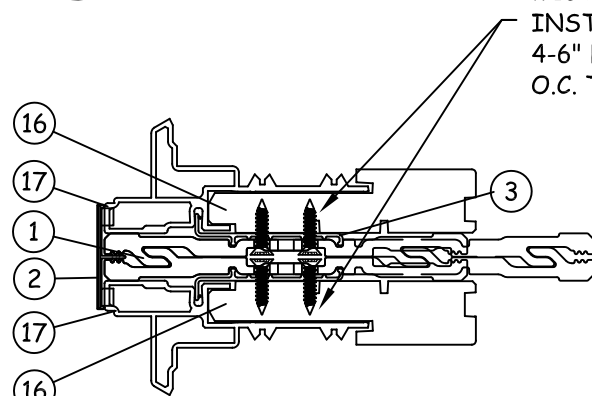
AQ
6 FWSLT TO FWOD
VERTICAL OR HORIZONTAL MULL



#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1)
4-6" FROM END & 8" MAX.
O.C. THEREAFTER.

| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | II |
| 6-9/16" | V |

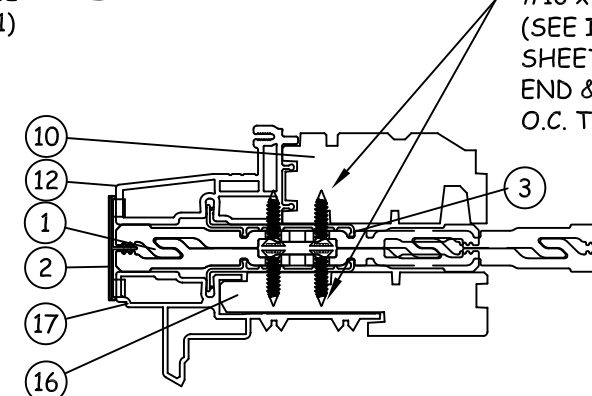
AR
6 FWOD TO FWOD
VERTICAL MULL



#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1)
4-6" FROM END & 8" MAX.
O.C. THEREAFTER.

| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | III |
| 6-9/16" | VI |

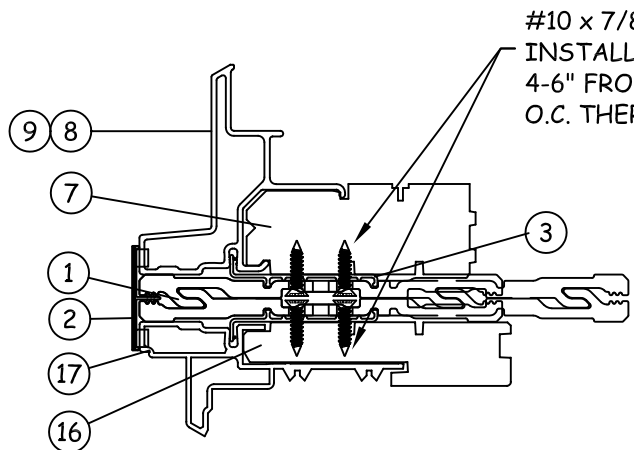
AS
6 FWSLT TO FWSLT
VERTICAL OR HORIZONTAL MULL



#10 x 7/8" FH SCREWS
(SEE INSTALL. NOTE 8,
SHEET 1) 4-6" FROM
END & 8" MAX.
O.C. THEREAFTER.

| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | II |
| 6-9/16" | V |

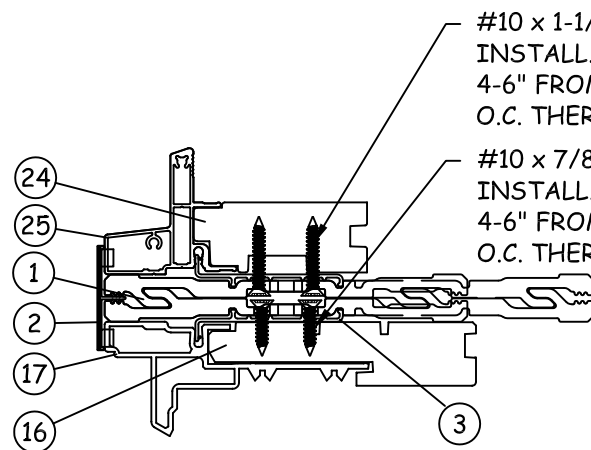
AT
6 ATV TO FWSLT
VERTICAL OR HORIZONTAL MULL



#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1)
4-6" FROM END & 8" MAX.
O.C. THEREAFTER.

| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | III |
| 6-9/16" | VI |

AU
6 ATF TO FWSLT
VERTICAL OR HORIZONTAL MULL

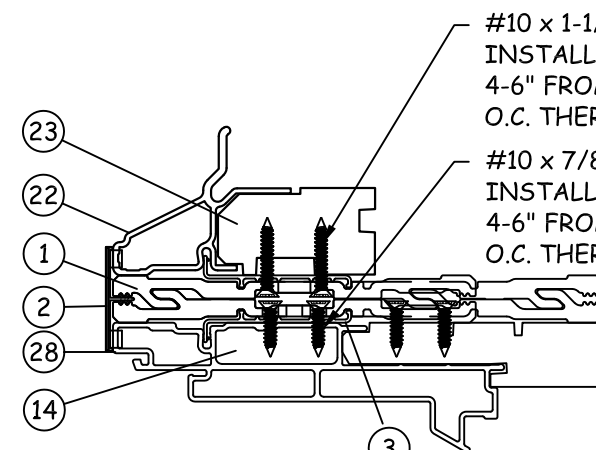


#10 x 1-1/4" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1)
4-6" FROM END & 8" MAX.
O.C. THEREAFTER.

#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1)
4-6" FROM END & 8" MAX.
O.C. THEREAFTER.

| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | II |
| 6-9/16" | V |

AV
6 FW TO FWSLT
VERTICAL OR HORIZONTAL MULL



#10 x 1-1/4" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1)
4-6" FROM END & 8" MAX.
O.C. THEREAFTER.

#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1)
4-6" FROM END & 8" MAX.
O.C. THEREAFTER.

| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | II |
| 6-9/16" | V |

AW
6 FLEXI TO FWHD
HORIZONTAL OR VERTICAL MULL

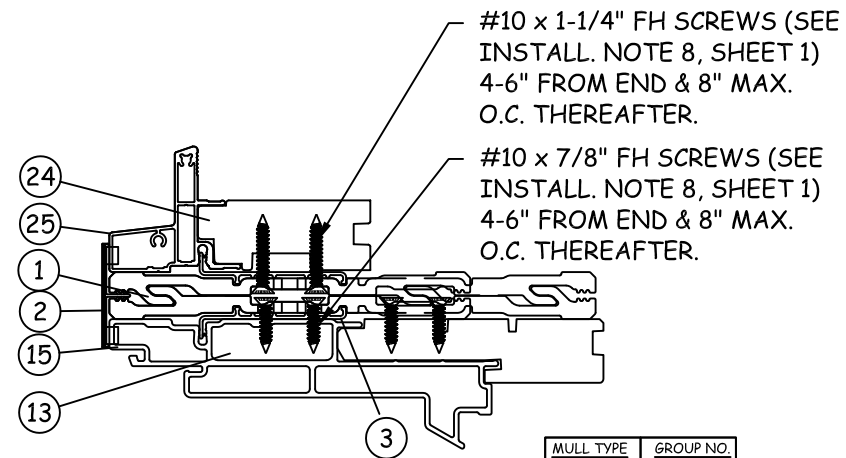
| NO. | DESCRIPTION | BY | DATE |
|-----|-------------|----|----------|
| | | MS | 02.09.16 |

| NO. | DESCRIPTION |
|-----|------------------------------|
| A | REV. TO INCLUDE 6-9/16" MULL |

DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

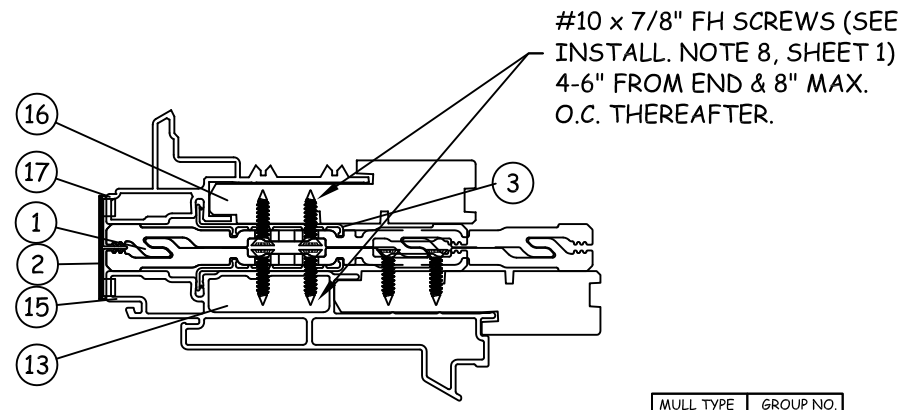
DWG #: **AWD086**
SHEET: **6 OF 15**

HERMES F. NORRERO, 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



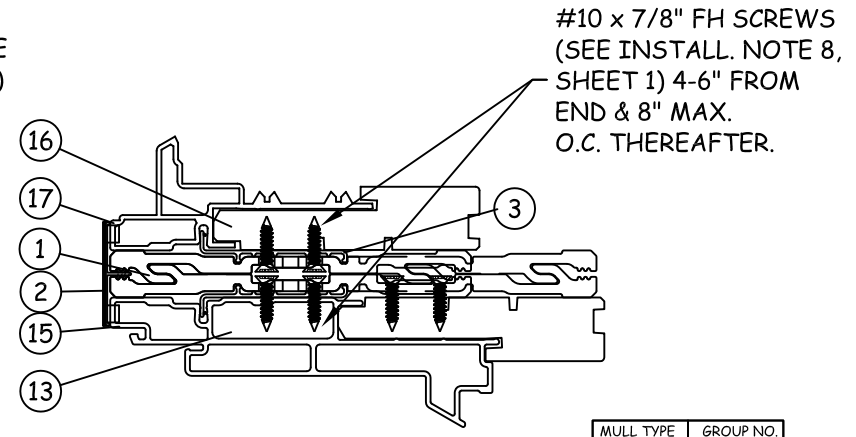
| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | II |
| 6-9/16" | V |

AX
7
FW TO FWHID
 HORIZONTAL OR VERTICAL MULL



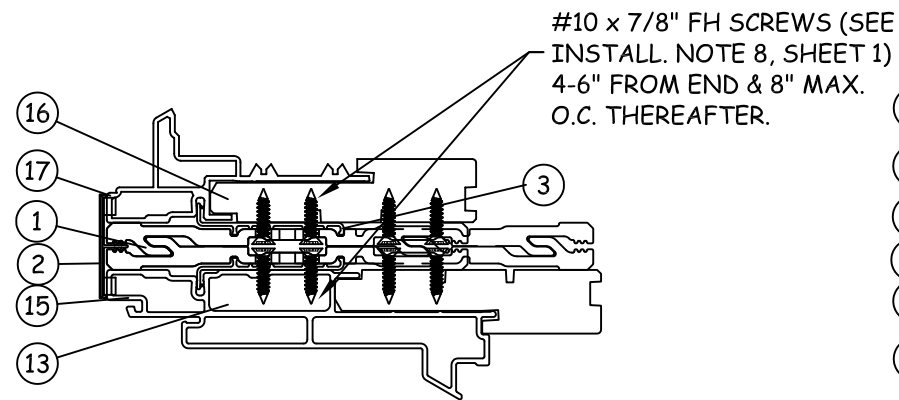
| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | III |
| 6-9/16" | VI |

AY
7
ATF TO FWHID
 HORIZONTAL OR VERTICAL MULL



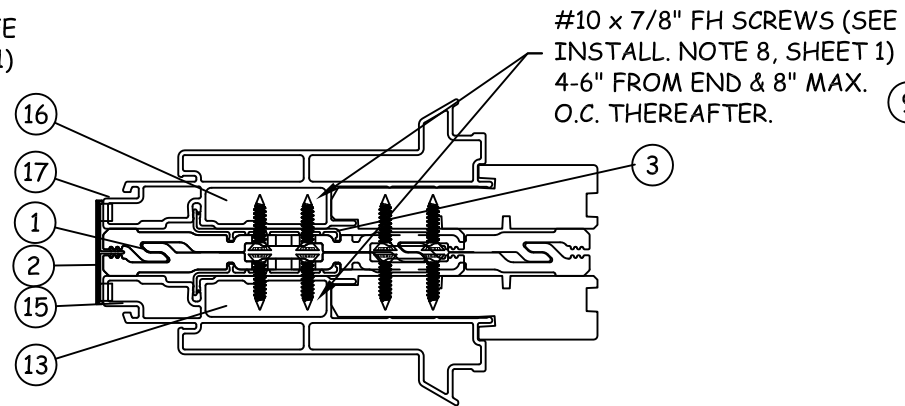
| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | II |
| 6-9/16" | V |

AZ
7
ATV TO FWHID
 VERTICAL OR HORIZONTAL MULL



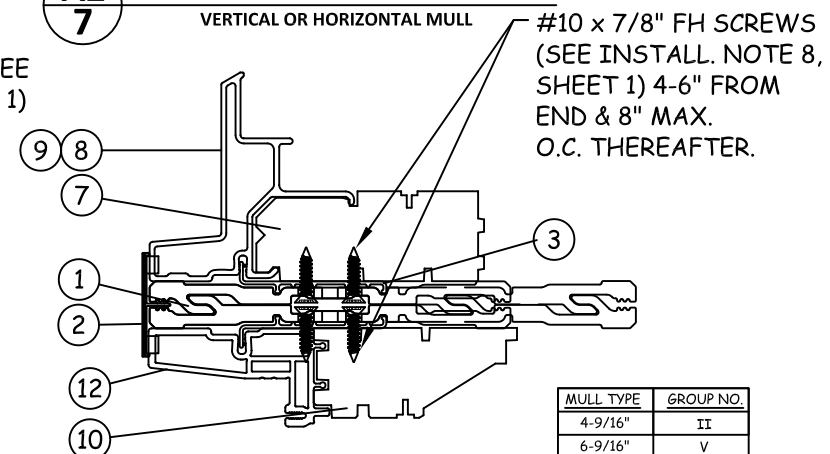
| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | III |
| 6-9/16" | VI |

BA
7
FWSLT TO FWHID
 VERTICAL MULL



| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | III |
| 6-9/16" | VI |

BB
7
FWHID TO FWHID
 VERTICAL MULL



| MULL TYPE | GROUP NO. |
|-----------|-----------|
| 4-9/16" | II |
| 6-9/16" | V |

BC
7
ATF/APW TO ACW
 VERTICAL OR HORIZONTAL MULL

TITLE: A SERIES REINFORCED MULLION ASSEMBLY MULL ASSEMBLY SECTIONS (6)

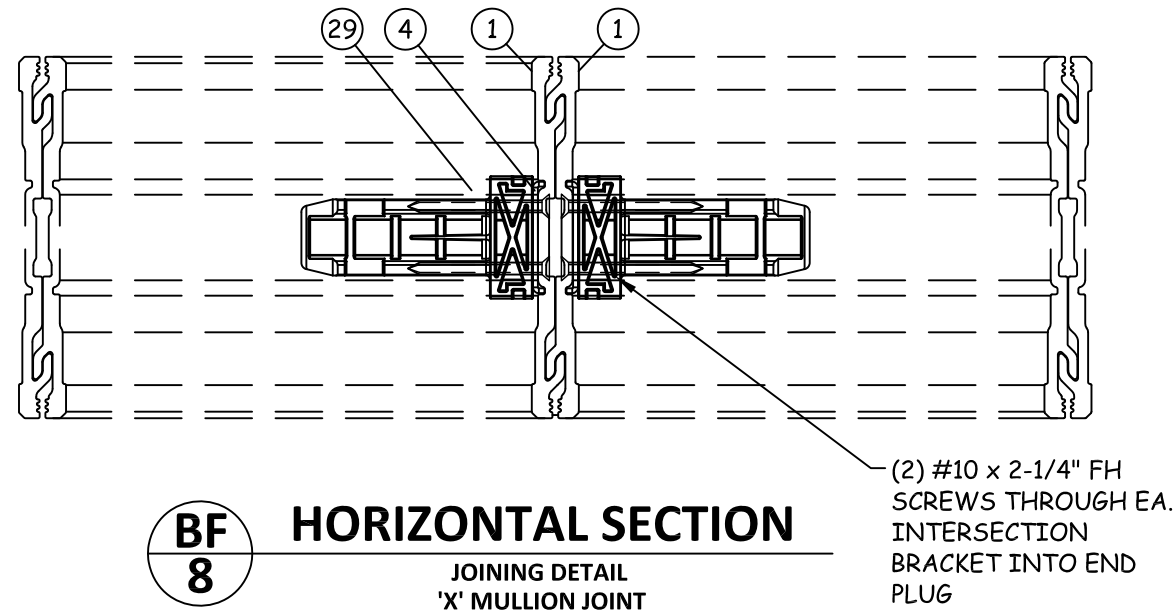
PREPARED BY:
 BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD. #338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478 FX: (954) 744-4738

| REVISIONS | | NO. | DESCRIPTION | BY | DATE |
|-----------|------------------------------|-----|-------------|----|----------|
| A | REV. TO INCLUDE 6-9/16" MULL | | | MS | 02.09.16 |

HERMES F. NORRERO, P.E.
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 DANIA BEACH, FL 33004
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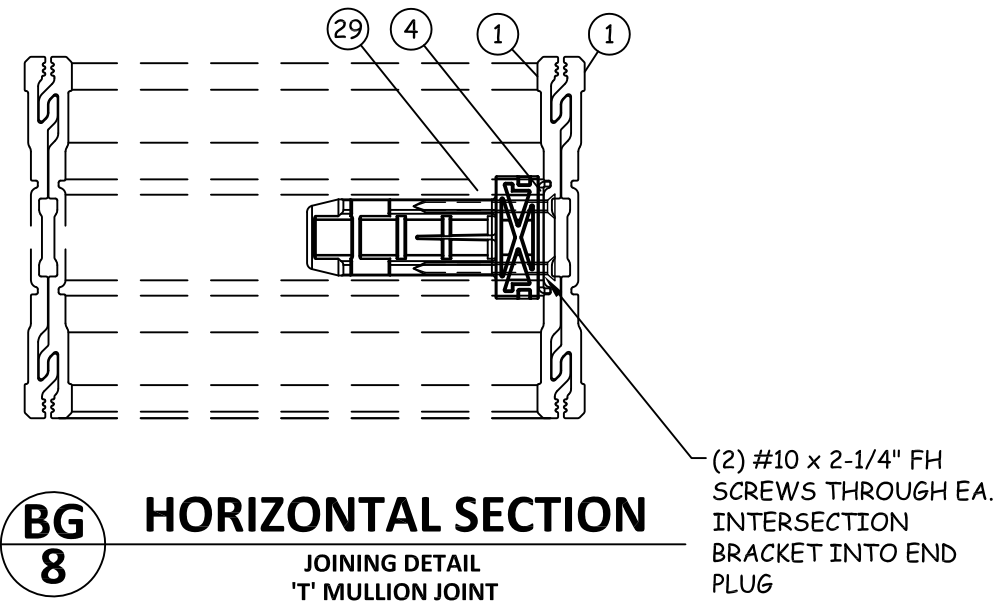
DATE: 10.12.15
 DWN BY: LMS
 CHK BY: HFN
 SCALE: NTS

DWG #: **AWD086**
 SHEET: **7 OF 15**



BF
8 **HORIZONTAL SECTION**
 JOINING DETAIL
 'X' MULLION JOINT

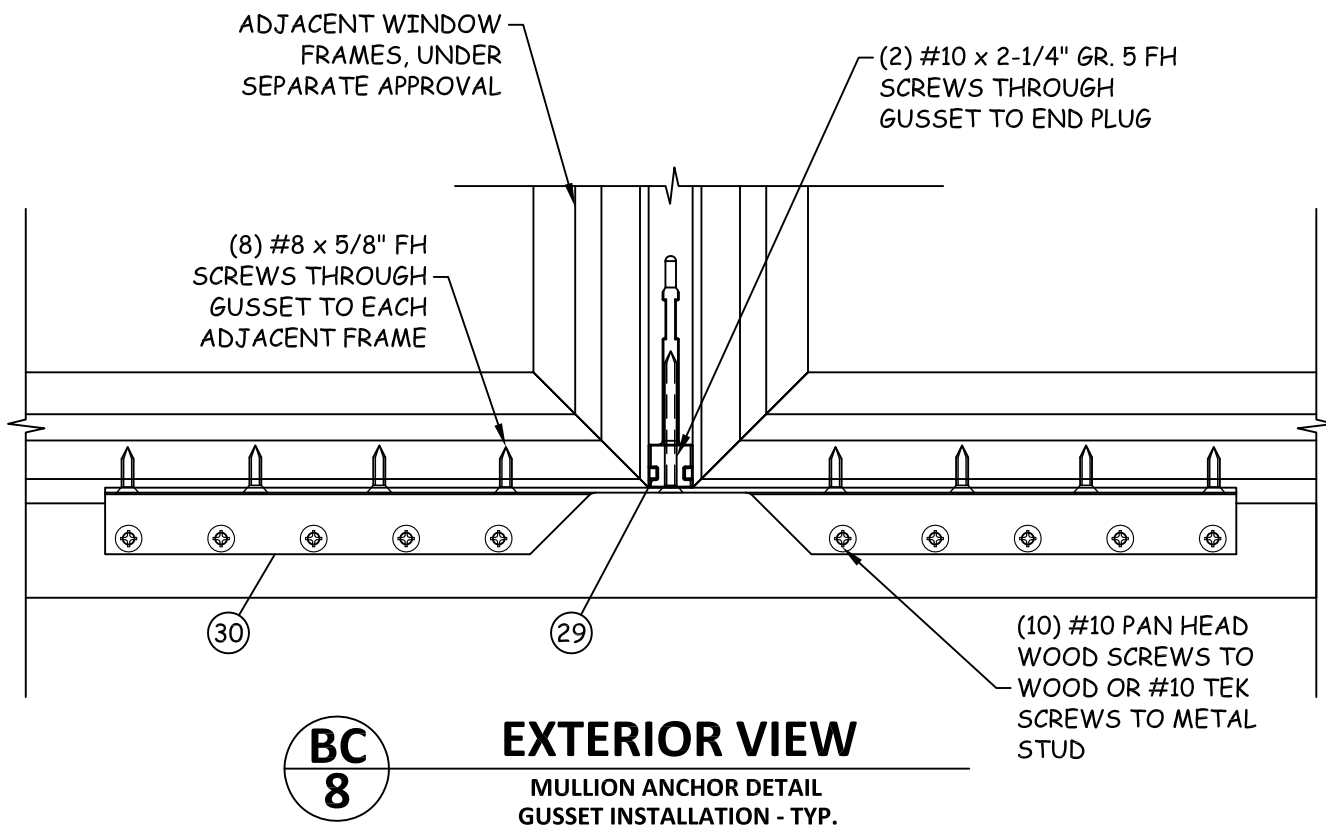
(2) #10 x 2-1/4" FH
 SCREWS THROUGH EA.
 INTERSECTION
 BRACKET INTO END
 PLUG



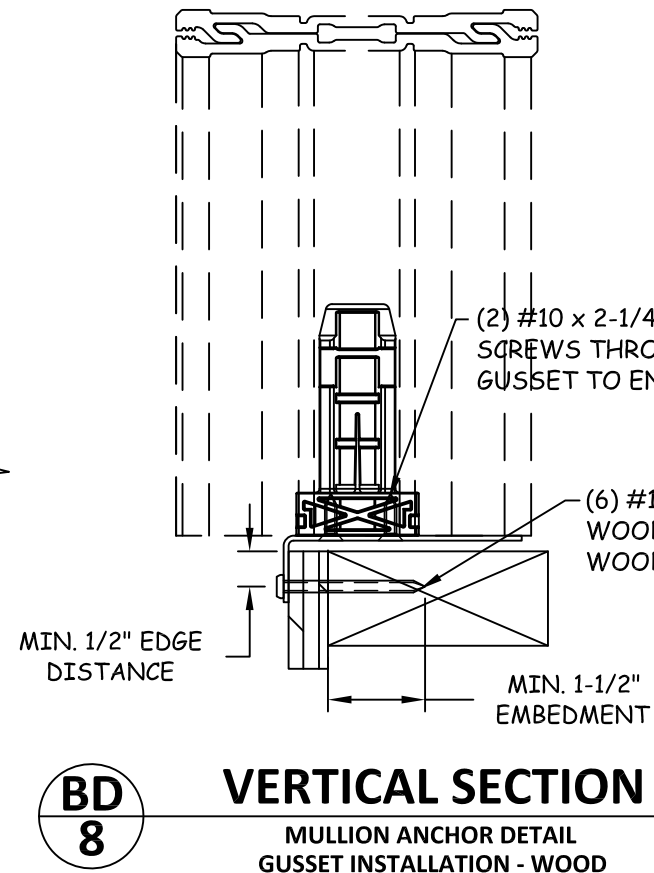
BG
8 **HORIZONTAL SECTION**
 JOINING DETAIL
 'T' MULLION JOINT

(2) #10 x 2-1/4" FH
 SCREWS THROUGH EA.
 INTERSECTION
 BRACKET INTO END
 PLUG

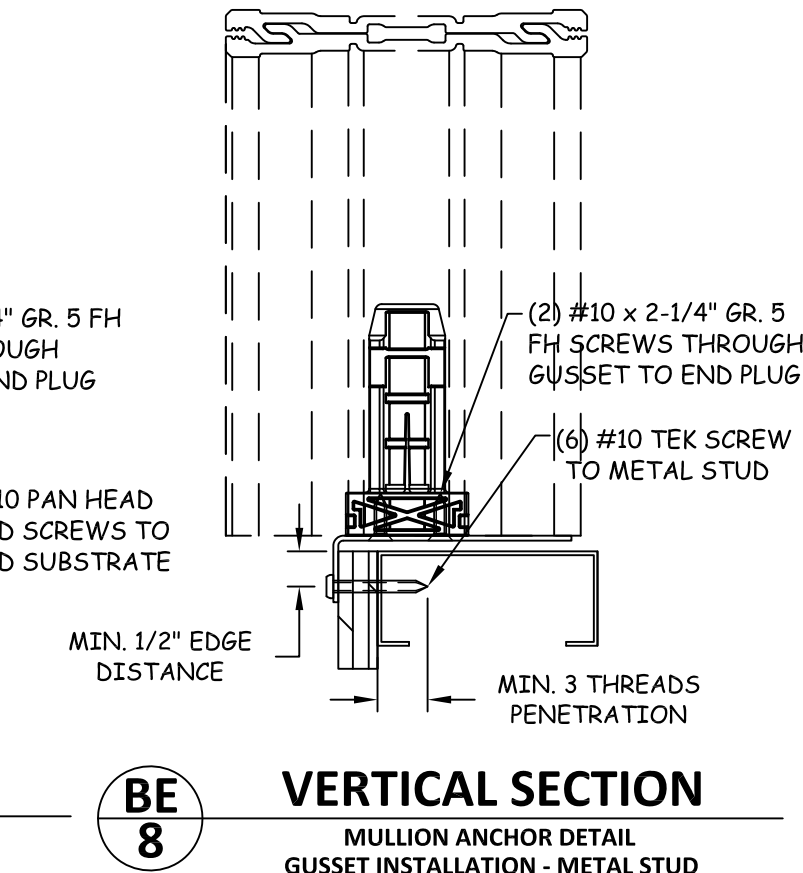
NOTE:
 INSTALLATION DETAILS ARE
 APPLICABLE TO 6-9/16" REINFORCED
 MULLION ASSEMBLIES.



BC
8 **EXTERIOR VIEW**
 MULLION ANCHOR DETAIL
 GUSSET INSTALLATION - TYP.



BD
8 **VERTICAL SECTION**
 MULLION ANCHOR DETAIL
 GUSSET INSTALLATION - WOOD



BE
8 **VERTICAL SECTION**
 MULLION ANCHOR DETAIL
 GUSSET INSTALLATION - METAL STUD

TITLE: A SERIES REINFORCED
 MULLION ASSEMBLY
 GUSSET
 INSTALLATION DETAILS

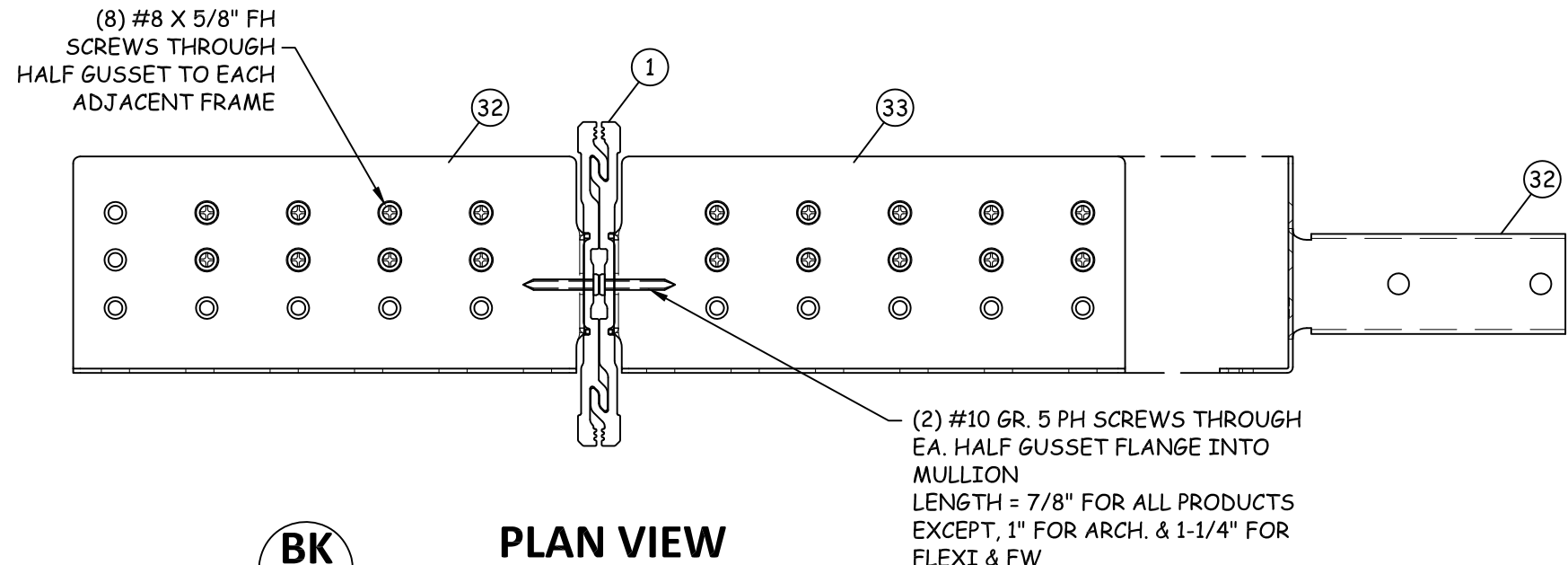
PREPARED BY:
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 PH: (954) 399-8478 FX: (954) 744-4738

| REVISIONS | | BY | DATE |
|-----------|------------------------------|----|----------|
| NO. | DESCRIPTION | | |
| A | REV. TO INCLUDE 6-9/16" MULL | MS | 02.09.16 |

HERMES F. NORRERO, P.E.
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 DANIA BEACH, FL 33004
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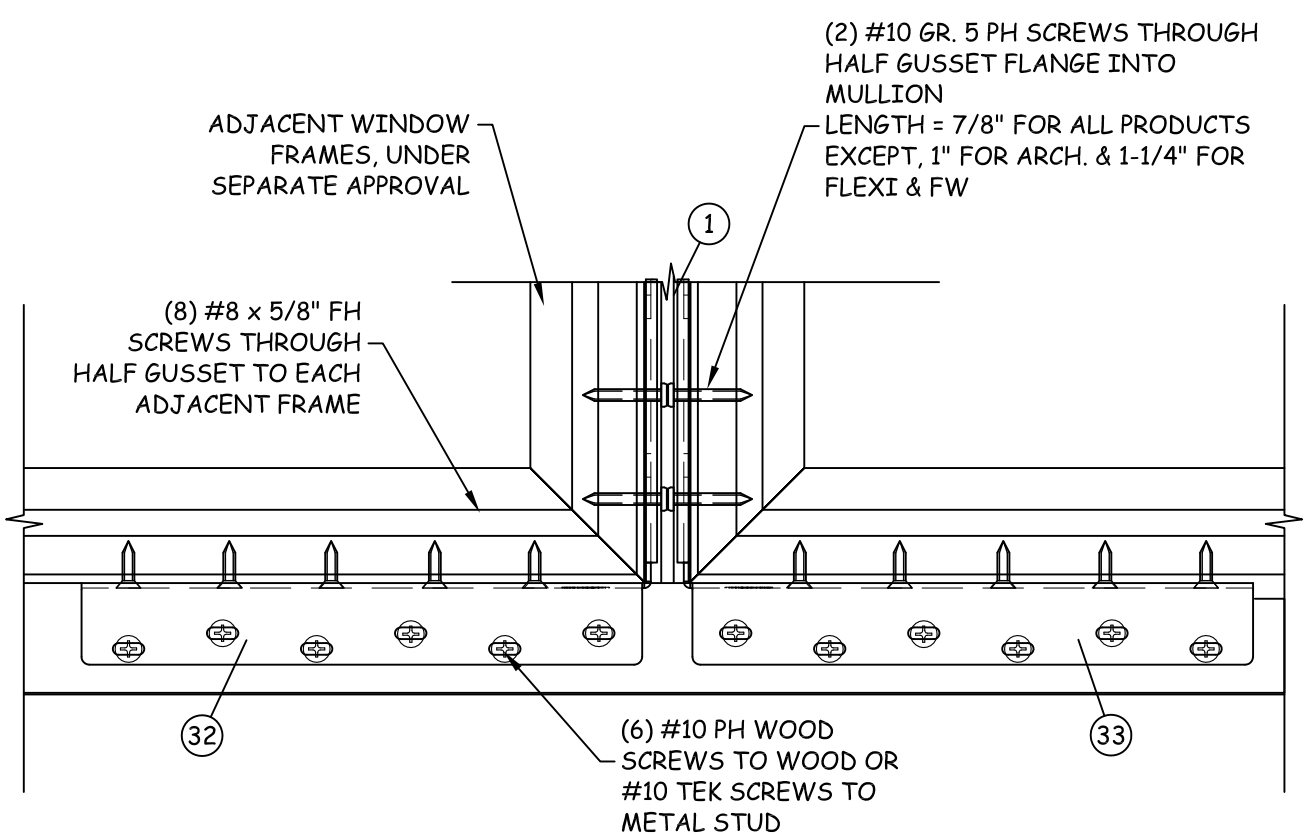
DATE: 10.12.15
 DWN BY: LMS
 CHK BY: HFN
 SCALE: NTS

DWG #: **AWD086**
 SHEET: **8 OF 15**

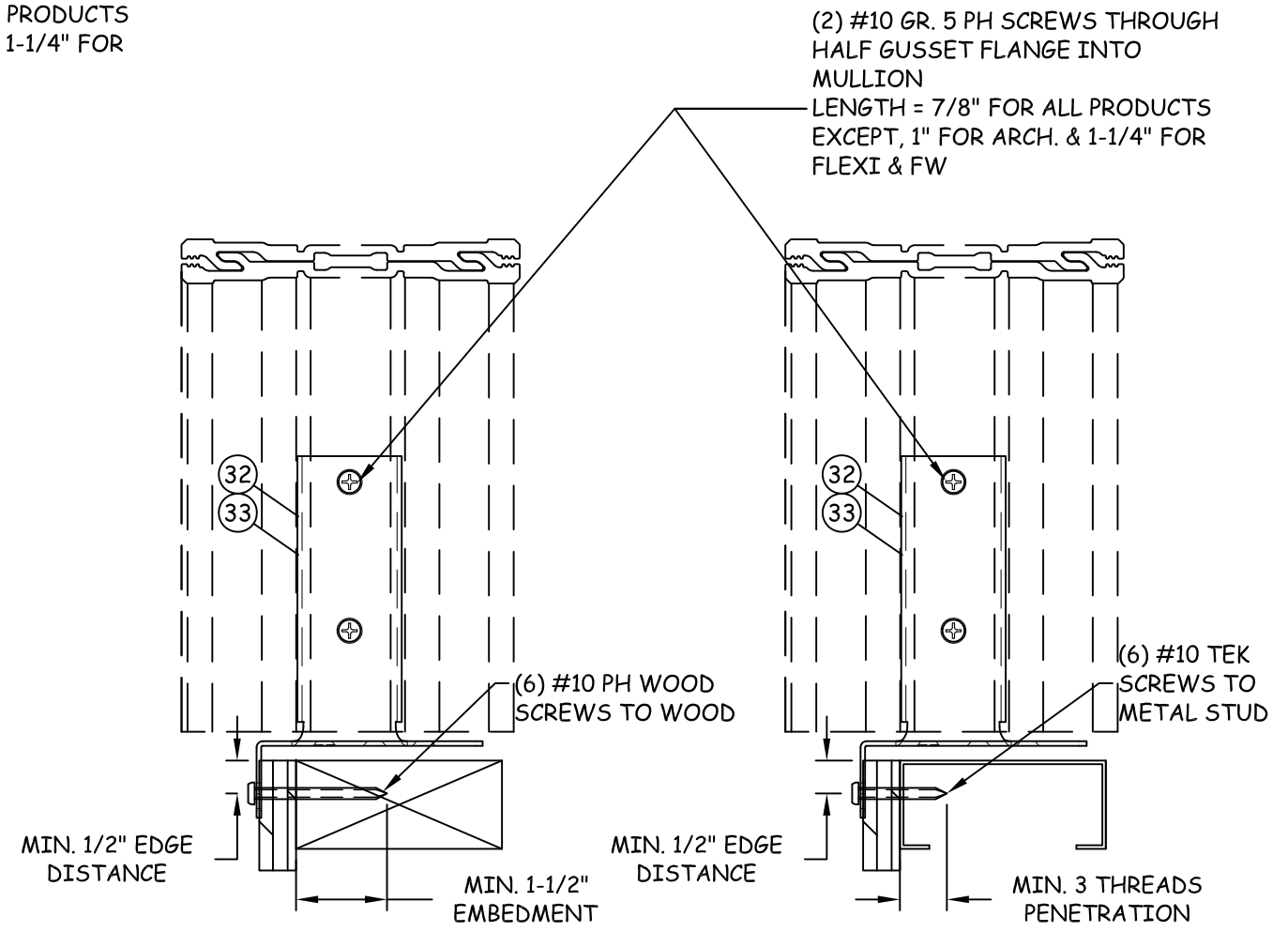


BK 9
PLAN VIEW
 MULLION ANCHOR DETAIL
 HALF GUSSET INSTALLATION - TYP.

NOTE:
 INSTALLATION DETAILS ARE
 APPLICABLE TO 6-9/16" REINFORCED
 MULLION ASSEMBLIES.



BH 9
EXTERIOR VIEW
 MULLION ANCHOR DETAIL
 HALF GUSSET INSTALLATION - TYP.



BI 9
VERTICAL SECTION
 MULLION ANCHOR DETAIL
 HALF GUSSET INSTALLATION - WOOD

BJ 9
VERTICAL SECTION
 MULLION ANCHOR DETAIL
 HALF GUSSET INSTALLATION - METAL STUD

TITLE: A SERIES REINFORCED
 MULLION ASSEMBLY
 HALF GUSSET
 INSTALLATION DETAILS

PREPARED BY:
 BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD. #338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478 FX: (954) 744-4738

| REVISIONS | | BY | DATE |
|-----------|------------------------------|----|----------|
| NO. | DESCRIPTION | | |
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HERMES F. NORRERO, P.E.
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DATE: 10.12.15
 DWN BY: LMS
 CHK BY: HFN
 SCALE: NTS

DWG #:
AWD086
 SHEET: **9 OF 15**

8/20/2016 7:02 PM

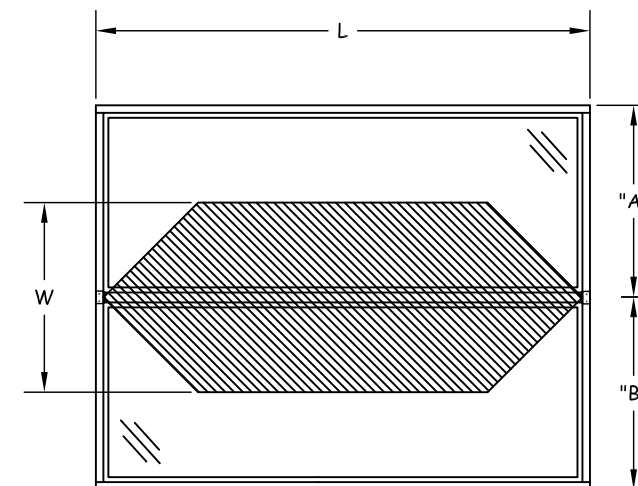
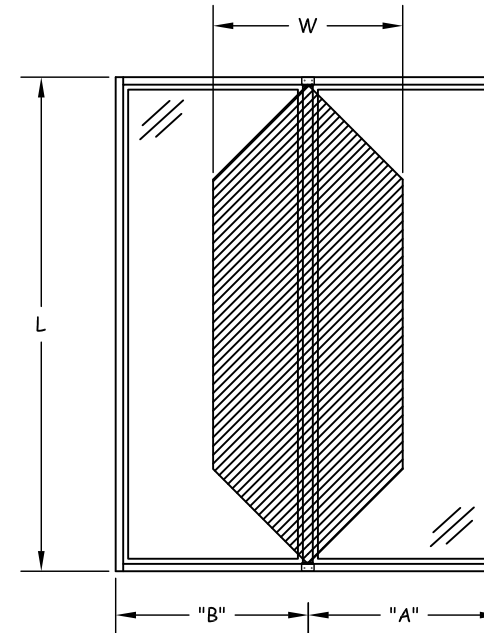
s:\projects\andersen\windows\fb-16-0614.3 - a series reinforced mullion revision\dwg\awd086.dwg

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUP I

| L - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 | 102.0 | 108.0 | 114.0 | 120.0 | 126.0 | 132.0 | 138.0 | 144.0 |
| 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 100.0 | 100.0 |
| 66.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 72.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.8 | 93.4 | 91.4 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 |
| 78.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.3 | 90.8 | 85.4 | 81.7 | 79.2 | 77.8 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 |
| 84.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.0 | 88.9 | 81.7 | 75.1 | 70.2 | 66.7 | 64.3 | 62.9 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 |
| 90.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.6 | 89.4 | 78.2 | 70.1 | 64.1 | 59.6 | 56.2 | 53.8 | 52.1 | 51.1 | 50.8 | 50.8 | 50.8 | 50.8 | 50.8 | 50.8 | 50.8 | 50.8 | 50.8 | 50.8 |
| 96.0 | 100.0 | 100.0 | 100.0 | 100.0 | 92.3 | 84.5 | 78.0 | 68.1 | 60.8 | 55.4 | 51.3 | 48.1 | 45.7 | 44.0 | 42.8 | 42.1 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 |
| 102.0 | 100.0 | 100.0 | 100.0 | 90.0 | 81.4 | 74.5 | 68.7 | 59.8 | 53.3 | 48.4 | 44.7 | 41.7 | 39.5 | 37.7 | 36.5 | 35.6 | 35.1 | 34.9 | 34.9 | 34.9 | 34.9 | 34.9 | 34.9 | 34.9 | 34.9 |
| 108.0 | 100.0 | 100.0 | 89.6 | 80.0 | 72.4 | 66.2 | 61.0 | 53.0 | 47.2 | 42.7 | 39.3 | 36.6 | 34.5 | 32.8 | 31.5 | 30.6 | 29.9 | 29.5 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 |
| 114.0 | 100.0 | 91.5 | 80.3 | 71.7 | 64.8 | 59.2 | 54.6 | 47.3 | 42.0 | 38.0 | 34.8 | 32.4 | 30.4 | 28.8 | 27.6 | 26.6 | 25.9 | 25.4 | 25.1 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| 120.0 | 95.9 | 82.5 | 72.4 | 64.6 | 58.3 | 53.3 | 49.1 | 42.5 | 37.7 | 34.0 | 31.1 | 28.9 | 27.0 | 25.6 | 24.4 | 23.4 | 22.7 | 22.1 | 21.7 | 21.5 | 21.4 | 21.4 | 21.4 | 21.4 | 21.4 |
| 126.0 | 87.0 | 74.7 | 65.6 | 58.5 | 52.8 | 48.2 | 44.4 | 38.4 | 34.0 | 30.7 | 28.0 | 25.9 | 24.2 | 22.8 | 21.7 | 20.8 | 20.1 | 19.5 | 19.1 | 18.7 | 18.6 | 18.5 | 18.5 | 18.5 | 18.5 |
| 132.0 | 79.2 | 68.0 | 59.7 | 53.2 | 48.0 | 43.8 | 40.3 | 34.9 | 30.9 | 27.8 | 25.3 | 23.4 | 21.8 | 20.5 | 19.5 | 18.6 | 17.9 | 17.3 | 16.9 | 16.5 | 16.3 | 16.1 | 16.1 | 16.1 | 16.1 |
| 138.0 | 69.4 | 59.6 | 52.3 | 46.7 | 42.2 | 38.5 | 35.5 | 30.7 | 27.2 | 24.5 | 22.4 | 20.7 | 19.3 | 18.2 | 17.2 | 16.5 | 15.8 | 15.3 | - | - | - | - | - | - | - |
| 144.0 | 61.0 | 52.4 | 46.0 | 41.0 | 37.1 | 33.8 | 31.1 | 26.9 | 23.8 | 21.4 | 19.6 | 18.1 | 16.8 | 15.8 | - | - | - | - | - | - | - | - | - | - | - |

NOTE:

- MULLION CHART APPLIES TO 4-9/16" (ITEM #1A) GROUP I REINFORCED COMPOSITE MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
- DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
 - GUSSET INSTALLATION TO WOOD OR METAL STUD
 - HALF GUSSET INSTALLATION TO WOOD OR METAL STUD.
- TRIBUTARY WIDTH = $W = (A+B)/2$
- REFER TO SHEETS 8 & 9 FOR INSTALLATION DETAILS.
- WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



$$\frac{A + B}{2} = W$$



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: A SERIES REINFORCED MULLION ASSEMBLY ONE WAY LOAD TABLE: GROUP I
PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD. #338 DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

| REVISIONS | | BY | DATE |
|-----------|------------------------------|----|----------|
| A | REV. TO INCLUDE 6-9/16" MULL | MS | 02.09.16 |
| B | UPDATE MULL TABLES & T.O.C. | MS | 07.11.16 |

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

DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

DWG #: AWD086
SHEET: 10 OF 15

8/20/2016 7:03 PM

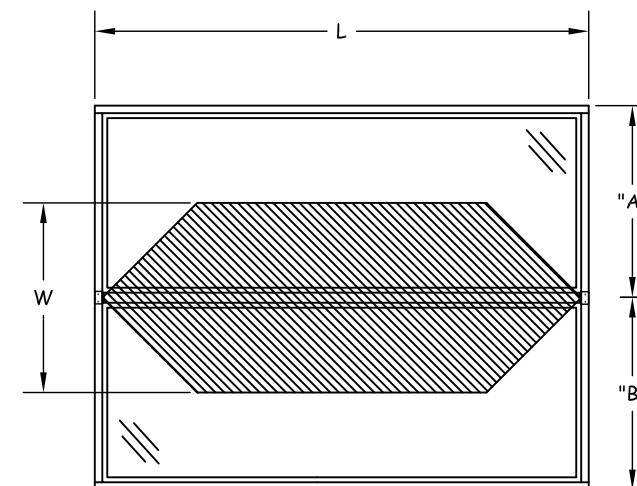
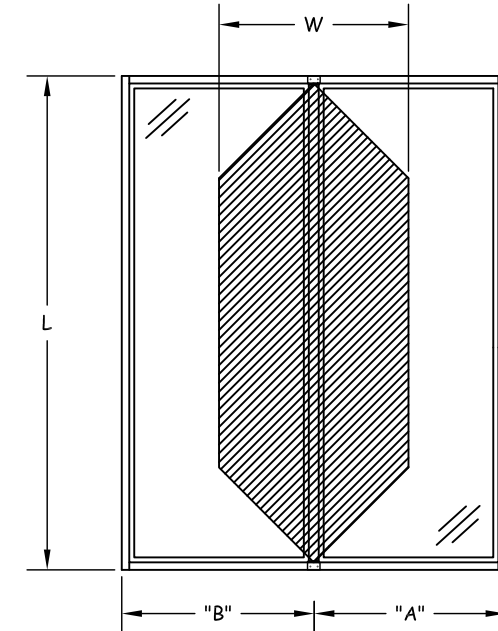
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUP II

| L - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 | 102.0 | 108.0 | 114.0 | 120.0 | 126.0 | 132.0 | 138.0 | 144.0 |
| 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 100.0 | 100.0 |
| 66.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 72.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.8 | 93.4 | 91.4 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 |
| 78.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.3 | 90.8 | 85.4 | 81.7 | 79.2 | 77.8 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 |
| 84.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.0 | 88.9 | 81.7 | 76.4 | 72.6 | 69.9 | 68.1 | 67.0 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 |
| 90.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 97.0 | 90.8 | 81.2 | 74.3 | 69.2 | 65.4 | 62.5 | 60.5 | 59.1 | 58.4 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 |
| 96.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.8 | 89.7 | 83.8 | 74.7 | 68.1 | 63.2 | 59.4 | 56.6 | 54.5 | 52.9 | 51.8 | 50.9 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 |
| 102.0 | 100.0 | 100.0 | 100.0 | 98.5 | 90.2 | 83.4 | 77.8 | 69.2 | 62.8 | 58.1 | 54.1 | 50.5 | 47.8 | 45.7 | 44.2 | 43.1 | 42.4 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 108.0 | 100.0 | 100.0 | 100.0 | 92.2 | 84.3 | 77.9 | 72.6 | 64.2 | 57.1 | 51.7 | 47.6 | 44.3 | 41.7 | 39.7 | 38.2 | 37.0 | 36.2 | 35.7 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 114.0 | 100.0 | 100.0 | 96.1 | 86.7 | 78.5 | 71.7 | 66.1 | 57.3 | 50.9 | 46.0 | 42.2 | 39.2 | 36.8 | 34.9 | 33.4 | 32.2 | 31.4 | 30.7 | 30.4 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 |
| 120.0 | 100.0 | 95.1 | 83.5 | 74.6 | 67.4 | 61.6 | 56.9 | 49.4 | 43.9 | 39.7 | 36.4 | 33.9 | 31.8 | 30.2 | 28.9 | 27.8 | 27.0 | 26.4 | 26.0 | 25.8 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 |
| 126.0 | 95.4 | 82.0 | 72.0 | 64.3 | 58.1 | 53.1 | 48.9 | 42.5 | 37.7 | 34.0 | 31.2 | 28.9 | 27.1 | 25.6 | 24.4 | 23.5 | 22.7 | 22.1 | 21.7 | 21.4 | 21.2 | 21.1 | 21.1 | 21.1 | 21.1 |
| 132.0 | 82.9 | 71.3 | 62.6 | 55.8 | 50.4 | 46.1 | 42.4 | 36.8 | 32.6 | 29.4 | 26.9 | 24.9 | 23.3 | 22.0 | 20.9 | 20.0 | 19.3 | 18.7 | 18.3 | 18.0 | 17.7 | 17.6 | 17.5 | 17.5 | 17.5 |
| 138.0 | 72.5 | 62.3 | 54.7 | 48.8 | 44.1 | 40.2 | 37.0 | 32.1 | 28.4 | 25.6 | 23.4 | 21.6 | 20.2 | 19.0 | 18.0 | 17.2 | 16.6 | 16.0 | 15.6 | 15.3 | 15.0 | - | - | - | - |
| 144.0 | 63.8 | 54.8 | 48.1 | 42.9 | 38.7 | 35.3 | 32.5 | 28.1 | 24.9 | 22.4 | 20.4 | 18.9 | 17.6 | 16.5 | 15.6 | - | - | - | - | - | - | - | - | - | - |

NOTE:

- 1) MULLION CHART APPLIES TO 4-9/16" (ITEM #1A) GROUP II REINFORCED COMPOSITE MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
 - GUSSET INSTALLATION TO WOOD OR METAL STUD
 - HALF GUSSET INSTALLATION TO WOOD OR METAL STUD.
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) REFER TO SHEETS 8 & 9 FOR INSTALLATION DETAILS.
- 8) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



$$\frac{A + B}{2} = W$$



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: A SERIES REINFORCED MULLION ASSEMBLY ONE WAY LOAD TABLE: GROUP II

PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD. #338 DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

| REVISIONS | | BY | DATE |
|-----------|------------------------------|----|----------|
| A | REV. TO INCLUDE 6-9/16" MULL | MS | 02.09.16 |
| B | UPDATE MULL TABLES & T.O.C. | MS | 07.11.16 |

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

DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

DWG #: **AWD086**

SHEET: **11 OF 15**

8/20/2016 7:03 PM

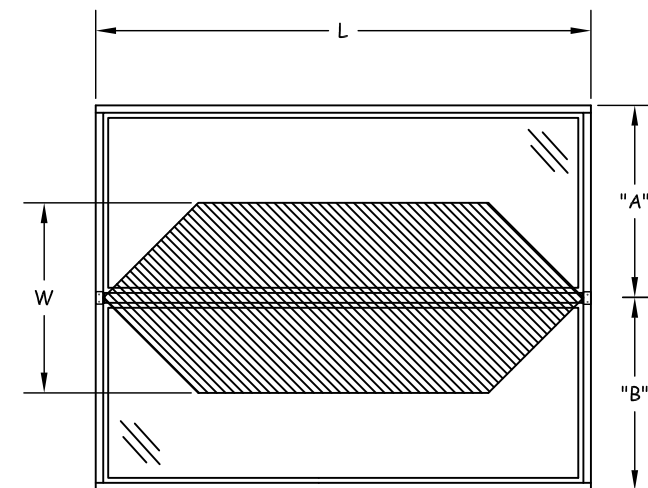
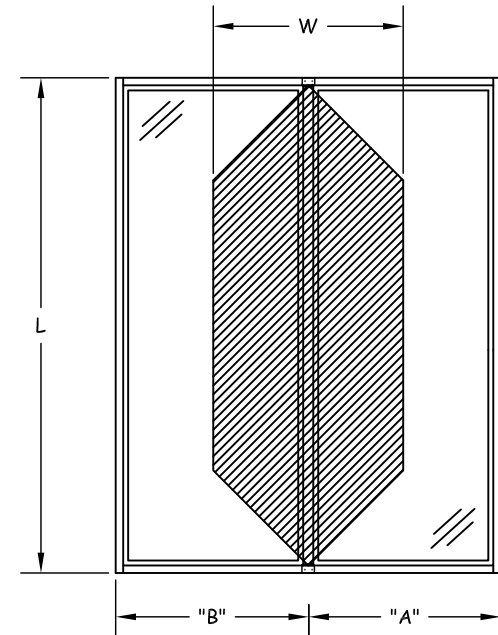
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUP III

| L - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 | 102.0 | 108.0 | 114.0 | 120.0 | 126.0 | 132.0 | 138.0 | 144.0 |
| 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 100.0 | 100.0 |
| 66.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 72.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.8 | 93.4 | 91.4 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 |
| 78.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.3 | 90.8 | 85.4 | 81.7 | 79.2 | 77.8 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 |
| 84.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.0 | 88.9 | 81.7 | 76.4 | 72.6 | 69.9 | 68.1 | 67.0 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 |
| 90.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 97.0 | 90.8 | 81.2 | 74.3 | 69.2 | 65.4 | 62.5 | 60.5 | 59.1 | 58.4 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 |
| 96.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.8 | 89.7 | 83.8 | 74.7 | 68.1 | 63.2 | 59.4 | 56.6 | 54.5 | 52.9 | 51.9 | 51.3 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 |
| 102.0 | 100.0 | 100.0 | 100.0 | 98.5 | 90.2 | 83.4 | 77.8 | 69.2 | 62.8 | 58.1 | 54.5 | 51.7 | 49.5 | 47.9 | 46.7 | 45.9 | 45.4 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 |
| 108.0 | 100.0 | 100.0 | 100.0 | 92.2 | 84.3 | 77.9 | 72.6 | 64.4 | 58.4 | 53.8 | 50.3 | 47.5 | 45.4 | 43.7 | 42.4 | 41.2 | 40.3 | 39.8 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 |
| 114.0 | 100.0 | 100.0 | 96.1 | 86.7 | 79.2 | 73.1 | 68.1 | 60.2 | 54.5 | 49.5 | 45.6 | 42.5 | 40.0 | 38.1 | 36.5 | 35.4 | 34.5 | 33.9 | 33.6 | 33.4 | 33.4 | 33.4 | 33.4 | 33.4 | 33.4 |
| 120.0 | 100.0 | 100.0 | 88.5 | 79.0 | 71.5 | 65.4 | 60.3 | 52.4 | 46.5 | 42.1 | 38.6 | 35.9 | 33.7 | 32.0 | 30.6 | 29.5 | 28.7 | 28.0 | 27.6 | 27.3 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 |
| 126.0 | 100.0 | 86.9 | 76.3 | 68.1 | 61.6 | 56.3 | 51.9 | 45.0 | 39.9 | 36.1 | 33.1 | 30.6 | 28.7 | 27.2 | 25.9 | 24.9 | 24.1 | 23.5 | 23.0 | 22.7 | 22.5 | 22.4 | 22.4 | 22.4 | 22.4 |
| 132.0 | 87.9 | 75.5 | 66.3 | 59.2 | 53.5 | 48.8 | 45.0 | 39.0 | 34.6 | 31.2 | 28.5 | 26.4 | 24.7 | 23.3 | 22.1 | 21.2 | 20.5 | 19.9 | 19.4 | 19.1 | 18.8 | 18.7 | 18.6 | 18.6 | 18.6 |
| 138.0 | 76.8 | 66.0 | 58.0 | 51.7 | 46.7 | 42.6 | 39.3 | 34.0 | 30.1 | 27.1 | 24.8 | 22.9 | 21.4 | 20.1 | 19.1 | 18.2 | 17.6 | 17.0 | 16.5 | 16.2 | 15.9 | 15.7 | 15.6 | 15.6 | 15.6 |
| 144.0 | 67.6 | 58.1 | 51.0 | 45.4 | 41.0 | 37.5 | 34.5 | 29.8 | 26.4 | 23.7 | 21.7 | 20.0 | 18.6 | 17.5 | 16.6 | 15.8 | 15.2 | - | - | - | - | - | - | - | - |

NOTE:

- MULLION CHART APPLIES TO 4-9/16" (ITEM #1A) GROUP III REINFORCED COMPOSITE MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
- DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
 - GUSSET INSTALLATION TO WOOD OR METAL STUD
 - HALF GUSSET INSTALLATION TO WOOD OR METAL STUD.
- TRIBUTARY WIDTH = $W = (A+B)/2$
- REFER TO SHEETS 8 & 9 FOR INSTALLATION DETAILS.
- WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



$$\frac{A + B}{2} = W$$



100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: A SERIES REINFORCED MULLION ASSEMBLY ONE WAY LOAD TABLE: GROUP III

PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD. #338 DANIA BEACH, FL 33004
 PH: (954) 399-8478 FX: (954) 744-4738

| REVISIONS | | NO. | DESCRIPTION | BY | DATE |
|-----------|------------------------------|-----|-------------|----|------|
| A | REV. TO INCLUDE 6-9/16" MULL | MS | 02.09.16 | | |
| B | UPDATE MULL TABLES & T.O.C. | MS | 07.11.16 | | |

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

DATE: 10.12.15
 DWN BY: LMS
 CHK BY: HFN
 SCALE: NTS

DWG #: **AWD086**
 SHEET: **12 OF 15**

8/20/2016 7:03 PM

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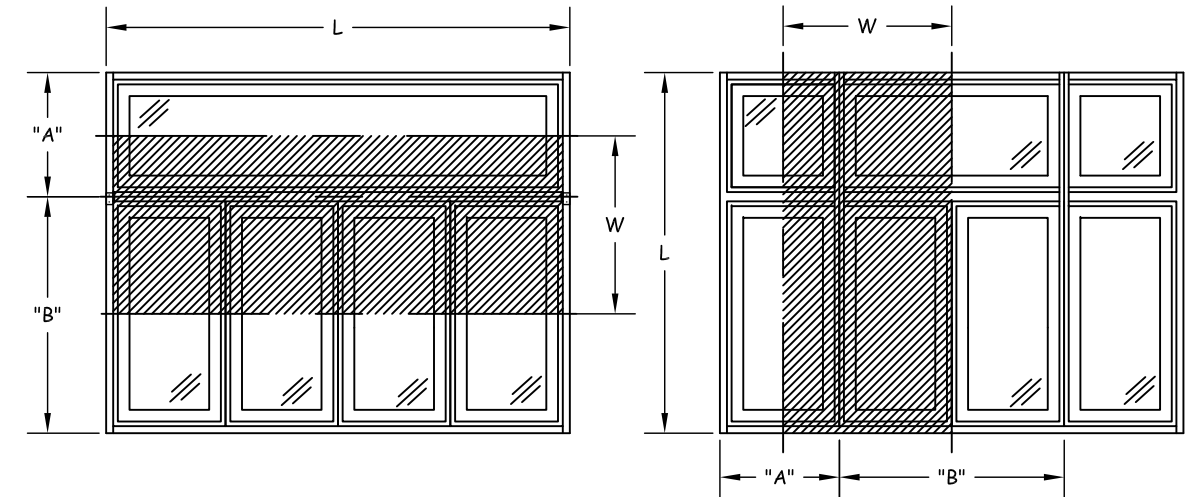
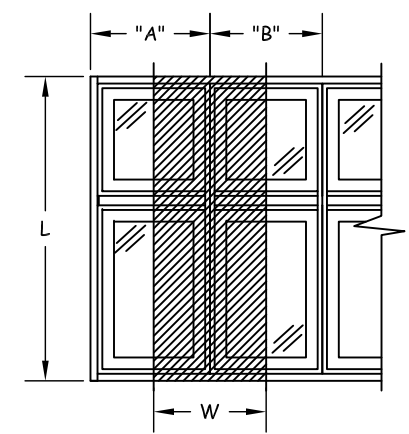
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUP I, II, OR III (TWO-WAY CONFIGURATIONS)

| L - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 | 102.0 | 108.0 | 114.0 | 120.0 | 126.0 | 132.0 | 138.0 | 144.0 |
| 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 100.0 | 100.0 |
| 66.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 72.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 78.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 84.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 90.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 96.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 102.0 | 100.0 | 100.0 | 89.6 | 79.7 | 71.7 | 65.2 | 59.8 | 51.2 | 44.8 | 39.8 | 35.9 | 32.6 | 29.9 | 27.6 | 25.6 | 23.9 | 22.4 | 21.1 | 19.9 | 18.9 | 17.9 | 17.1 | 16.3 | 15.6 | - |
| 108.0 | 100.0 | 91.4 | 80.0 | 71.1 | 64.0 | 58.2 | 53.3 | 45.7 | 40.0 | 35.5 | 32.0 | 29.1 | 26.7 | 24.5 | 22.8 | 21.3 | 20.0 | 18.8 | 17.8 | 16.8 | 16.0 | 15.2 | - | - | - |
| 114.0 | 95.7 | 82.0 | 71.8 | 63.8 | 57.4 | 52.2 | 47.8 | 41.0 | 35.9 | 31.9 | 28.7 | 26.1 | 23.9 | 22.1 | 20.5 | 19.1 | 17.9 | 16.9 | 15.9 | 15.1 | - | - | - | - | - |
| 120.0 | 86.4 | 74.0 | 64.8 | 57.6 | 51.8 | 47.1 | 43.2 | 37.0 | 32.4 | 28.8 | 25.9 | 23.6 | 21.6 | 19.9 | 18.5 | 17.3 | 16.2 | 15.2 | - | - | - | - | - | - | - |
| 126.0 | 78.3 | 67.1 | 58.7 | 52.2 | 47.0 | 42.7 | 39.2 | 33.6 | 29.4 | 26.1 | 23.5 | 21.4 | 19.6 | 18.1 | 16.8 | 15.7 | - | - | - | - | - | - | - | - | - |
| 132.0 | 71.4 | 61.2 | 53.5 | 47.6 | 42.8 | 38.9 | 35.7 | 30.6 | 26.8 | 23.8 | 21.4 | 19.5 | 17.8 | 16.5 | 15.3 | - | - | - | - | - | - | - | - | - | - |
| 138.0 | 65.3 | 56.0 | 49.0 | 43.5 | 39.2 | 35.6 | 32.6 | 28.0 | 24.5 | 21.8 | 19.6 | 17.8 | 16.3 | 15.1 | - | - | - | - | - | - | - | - | - | - | - |
| 144.0 | 60.0 | 51.4 | 45.0 | 40.0 | 36.0 | 32.7 | 30.0 | 25.7 | 22.5 | 20.0 | 18.0 | 16.4 | - | - | - | - | - | - | - | - | - | - | - | - | - |

NOTE:

- MULLION CHART APPLIES TO 4-9/16" (ITEM #1A) GROUP I, II, OR III REINFORCED COMPOSITE MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY, 'X' OR 'T', CONFIGURATIONS.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
- DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
 - V-NOTCH GUSSET INSTALLATION TO WOOD OR METAL STUD
 - HALF GUSSET INSTALLATION TO WOOD OR METAL STUD.
- TRIBUTARY WIDTH = W = (A+B)/2
- REFER TO SHEETS 8 OR 9 FOR INSTALLATION DETAILS.
- WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

$$\frac{A + B}{2} = W$$



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: A SERIES REINFORCED MULLION ASSEMBLY TWO WAY
LOAD TABLE: GROUP I, II, III
PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD. #338 DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

| NO. | DESCRIPTION | BY | DATE |
|-----|-----------------------------|----|------------------------------|
| | | A | REV. TO INCLUDE 6-9/16" MULL |
| B | UPDATE MULL TABLES & T.O.C. | MS | 07.11.16 |

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

DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

DWG #: AWD086
SHEET: 13 OF 15

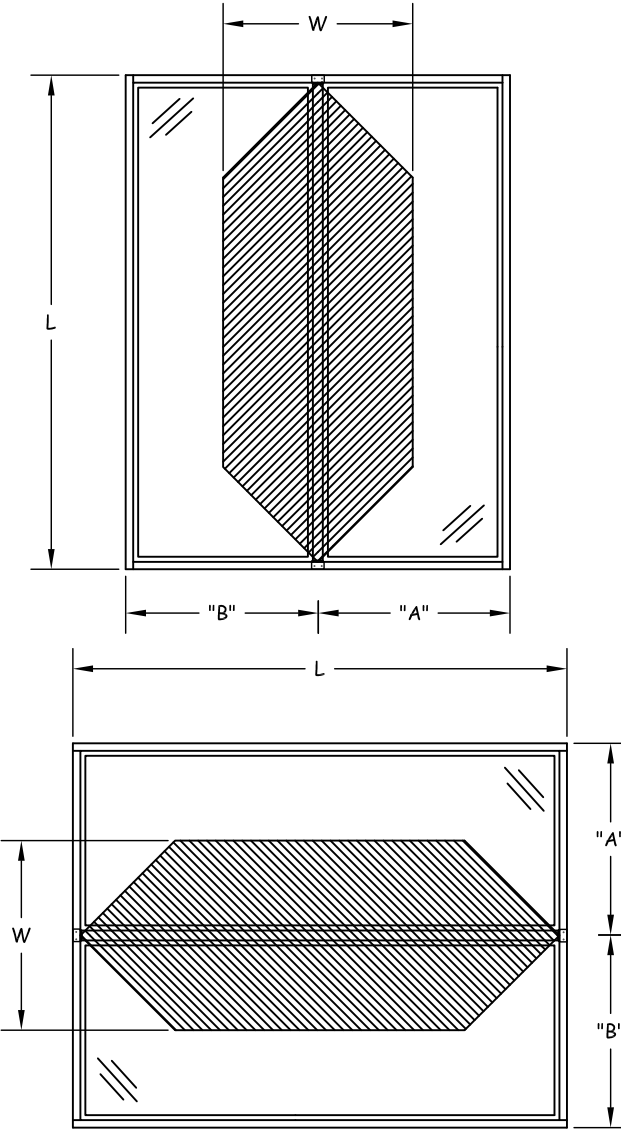
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUP IV

| L - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 | 102.0 | 108.0 | 114.0 | 120.0 | 126.0 | 132.0 | 138.0 | 144.0 |
| 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 100.0 | 100.0 |
| 66.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 72.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 78.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.7 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 |
| 84.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.9 | 92.1 | 88.6 | 86.3 | 85.0 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 |
| 90.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.2 | 87.7 | 82.9 | 79.3 | 76.7 | 75.0 | 74.0 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 |
| 96.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.7 | 86.3 | 80.1 | 75.3 | 71.8 | 69.1 | 67.1 | 65.8 | 65.0 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 |
| 102.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.7 | 87.7 | 79.7 | 73.7 | 69.1 | 65.5 | 62.8 | 60.7 | 59.2 | 58.2 | 57.6 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 |
| 108.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.8 | 92.1 | 81.7 | 74.0 | 68.2 | 63.8 | 60.3 | 57.6 | 55.4 | 53.8 | 52.6 | 51.8 | 51.3 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 |
| 114.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 92.7 | 86.3 | 76.4 | 69.1 | 63.5 | 59.2 | 55.8 | 53.1 | 51.0 | 49.3 | 48.0 | 47.1 | 46.4 | 46.0 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 |
| 120.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.7 | 87.4 | 81.3 | 71.8 | 64.8 | 59.4 | 55.3 | 52.0 | 49.3 | 47.2 | 45.3 | 43.5 | 42.1 | 41.1 | 40.4 | 40.0 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 |
| 126.0 | 100.0 | 100.0 | 100.0 | 98.2 | 89.6 | 82.6 | 76.7 | 67.7 | 60.9 | 55.8 | 51.8 | 48.1 | 45.0 | 42.4 | 40.3 | 38.6 | 37.3 | 36.2 | 35.4 | 34.8 | 34.5 | 34.4 | 34.4 | 34.4 | 34.4 |
| 132.0 | 100.0 | 100.0 | 100.0 | 93.3 | 85.0 | 78.3 | 72.7 | 64.0 | 56.9 | 51.3 | 46.9 | 43.4 | 40.5 | 38.2 | 36.2 | 34.6 | 33.3 | 32.2 | 31.4 | 30.7 | 30.3 | 30.0 | 29.9 | 29.9 | 29.9 |
| 138.0 | 100.0 | 100.0 | 95.4 | 85.1 | 76.9 | 70.2 | 64.6 | 56.0 | 49.6 | 44.6 | 40.8 | 37.7 | 35.2 | 33.1 | 31.4 | 30.0 | 28.9 | 28.0 | 27.2 | 26.6 | 26.2 | 25.9 | 25.7 | 25.6 | 25.6 |
| 144.0 | 100.0 | 95.6 | 83.9 | 74.8 | 67.6 | 61.7 | 56.8 | 49.1 | 43.4 | 39.1 | 35.7 | 32.9 | 30.7 | 28.8 | 27.3 | 26.0 | 25.0 | 24.1 | 23.4 | 22.9 | 22.4 | 22.1 | 21.8 | 21.7 | 21.6 |

- NOTE:**
- MULLION CHART APPLIES TO 6-9/16" (ITEM #1B) GROUP IV REINFORCED COMPOSITE MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
 - GUSSET INSTALLATION TO WOOD OR METAL STUD
 - HALF GUSSET INSTALLATION TO WOOD OR METAL STUD.
 - TRIBUTARY WIDTH = $W = (A+B)/2$
 - REFER TO SHEETS 8 & 9 FOR INSTALLATION DETAILS.
 - WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



$$\frac{A + B}{2} = W$$



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: A SERIES REINFORCED MULLION ASSEMBLY ONE WAY LOAD TABLE: GROUP IV

PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD. #338 DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

| REVISIONS | | BY | DATE |
|-----------|------------------------------|----|----------|
| A | REV. TO INCLUDE 6-9/16" MULL | MS | 02.09.16 |
| B | UPDATE MULL TABLES & T.O.C. | MS | 07.11.16 |

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

DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

DWG #: **AWD086**

SHEET: **14 OF 15**

8/20/2016 7:03 PM

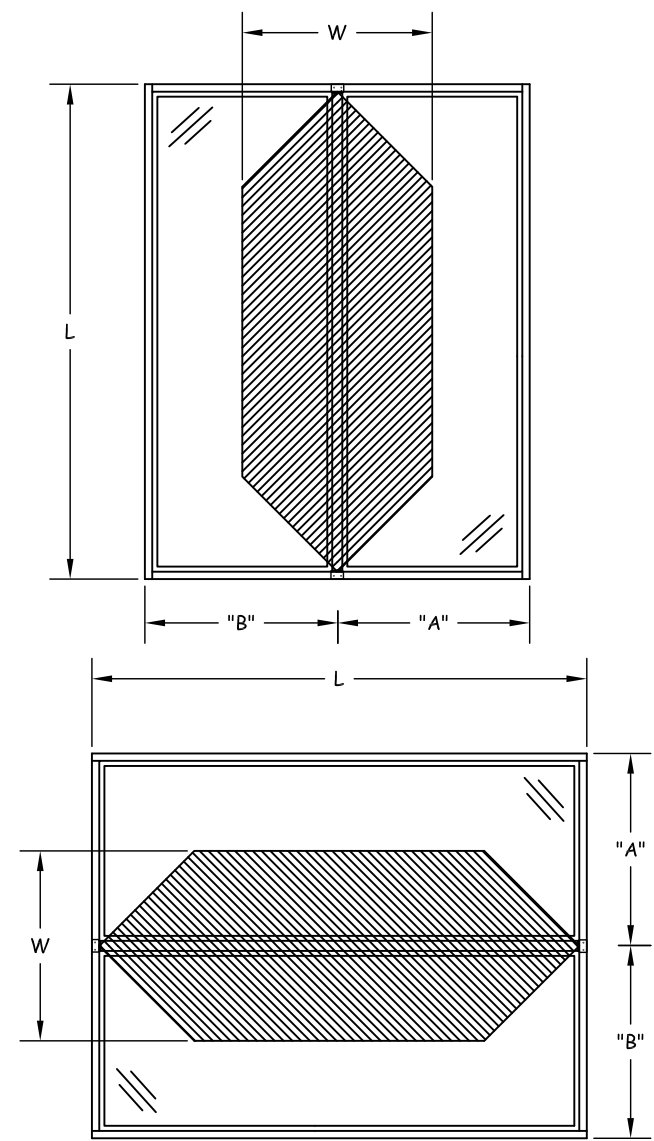
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUP V

| L - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 | 102.0 | 108.0 | 114.0 | 120.0 | 126.0 | 132.0 | 138.0 | 144.0 | | |
| 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 | 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 | 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 | 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 | 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 | 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 |
| 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 | 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 |
| 60.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 66.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 72.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 78.0 | 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 | 98.7 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 |
| 84.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.9 | 92.1 | 88.6 | 86.3 | 85.0 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 |
| 90.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.2 | 87.7 | 82.9 | 79.3 | 76.7 | 75.0 | 74.0 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 |
| 96.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.7 | 86.3 | 80.1 | 75.3 | 71.8 | 69.1 | 67.1 | 65.8 | 65.0 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 |
| 102.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.7 | 87.7 | 79.7 | 73.7 | 69.1 | 65.5 | 62.8 | 60.7 | 59.2 | 58.2 | 57.6 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 |
| 108.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.8 | 92.1 | 81.7 | 74.0 | 68.2 | 63.8 | 60.3 | 57.6 | 55.4 | 53.8 | 52.6 | 51.8 | 51.3 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 |
| 114.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 92.7 | 86.3 | 76.4 | 69.1 | 63.5 | 59.2 | 55.8 | 53.1 | 51.0 | 49.3 | 48.0 | 47.1 | 46.4 | 46.0 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 |
| 120.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.7 | 87.4 | 81.3 | 71.8 | 64.8 | 59.4 | 55.3 | 52.0 | 49.3 | 47.2 | 45.5 | 44.2 | 43.2 | 42.4 | 41.9 | 41.5 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 |
| 126.0 | 100.0 | 100.0 | 100.0 | 98.2 | 89.6 | 82.6 | 76.7 | 67.7 | 60.9 | 55.8 | 51.8 | 48.6 | 46.0 | 44.0 | 42.3 | 40.9 | 39.8 | 38.9 | 38.0 | 37.4 | 37.0 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 |
| 132.0 | 100.0 | 100.0 | 100.0 | 93.3 | 85.0 | 78.3 | 72.7 | 64.0 | 57.6 | 52.6 | 48.5 | 44.9 | 42.0 | 39.3 | 37.7 | 36.1 | 34.8 | 33.8 | 33.0 | 32.4 | 32.0 | 31.8 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 |
| 138.0 | 100.0 | 100.0 | 98.6 | 88.0 | 79.5 | 72.5 | 66.8 | 57.8 | 51.2 | 46.1 | 42.1 | 38.9 | 36.3 | 34.2 | 32.5 | 31.0 | 29.9 | 28.9 | 28.1 | 27.5 | 27.1 | 26.8 | 26.6 | 26.5 | 26.5 | 26.5 | 26.5 |
| 144.0 | 100.0 | 98.8 | 86.7 | 77.3 | 69.8 | 63.7 | 58.7 | 50.8 | 44.9 | 40.4 | 36.9 | 34.0 | 31.7 | 29.8 | 28.2 | 26.9 | 25.8 | 24.9 | 24.2 | 23.6 | 23.1 | 22.8 | 22.6 | 22.4 | 22.3 | 22.3 | 22.3 |

NOTE:

- 1) MULLION CHART APPLIES TO 6-9/16" (ITEM #1B) GROUP V REINFORCED COMPOSITE MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
 - GUSSET INSTALLATION TO WOOD OR METAL STUD
 - HALF GUSSET INSTALLATION TO WOOD OR METAL STUD.
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) REFER TO SHEETS 8 & 9 FOR INSTALLATION DETAILS.
- 8) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



$$\frac{A + B}{2} = W$$



100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: A SERIES REINFORCED MULLION ASSEMBLY ONE WAY LOAD TABLE: GROUP V

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

PH: (954) 399-8478 FX: (954) 744-4738

| REVISIONS | | BY | DATE |
|-----------|------------------------------|----|----------|
| A | REV. TO INCLUDE 6-9/16" MULL | MS | 02.09.16 |
| B | UPDATE MULL TABLES & T.O.C. | MS | 07.11.16 |

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

DATE: 10.12.15
 DWN BY: LMS
 CHK BY: HFN
 SCALE: NTS

DWG #: **AWD086**

SHEET: **15 OF 15**

8/20/2016 7:03 PM

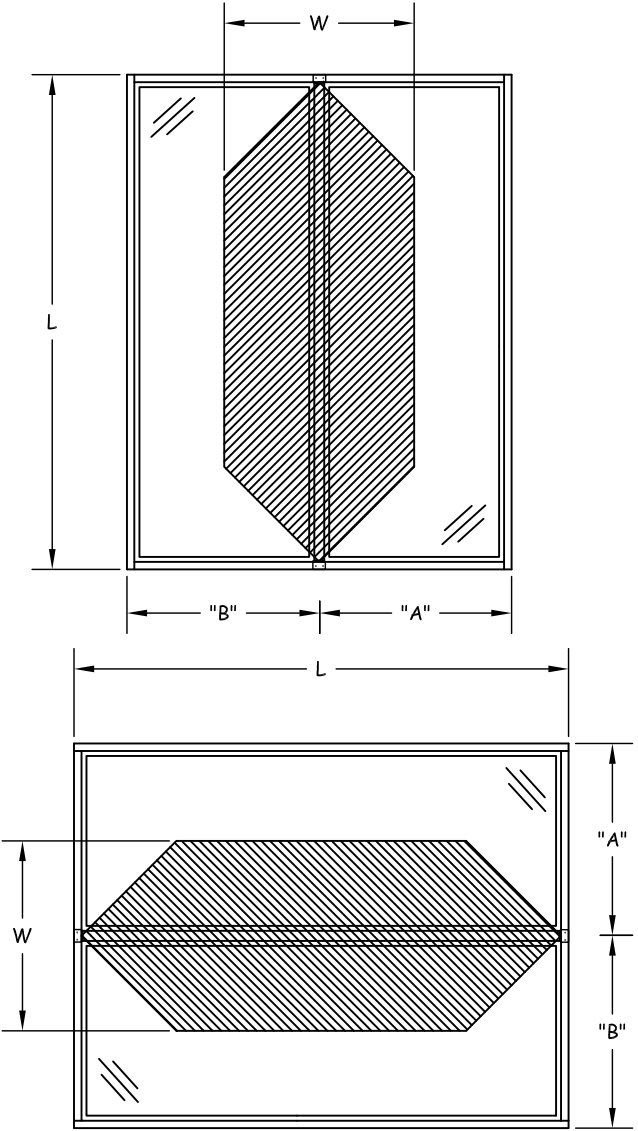
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUP VI

| L - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 | 102.0 | 108.0 | 114.0 | 120.0 | 126.0 | 132.0 | 138.0 | 144.0 | | |
| 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 | 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 | 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 | 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 | 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 | 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 |
| 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 | 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 |
| 60.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 66.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 72.0 | 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 78.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.7 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 |
| 84.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.9 | 92.1 | 88.6 | 86.3 | 85.0 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 |
| 90.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.2 | 87.7 | 82.9 | 79.3 | 76.7 | 75.0 | 74.0 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 |
| 96.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.7 | 86.3 | 80.1 | 75.3 | 71.8 | 69.1 | 67.1 | 65.8 | 65.0 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 |
| 102.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.7 | 87.7 | 79.7 | 73.7 | 69.1 | 65.5 | 62.8 | 60.7 | 59.2 | 58.2 | 57.6 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 |
| 108.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.8 | 92.1 | 81.7 | 74.0 | 68.2 | 63.8 | 60.3 | 57.6 | 55.4 | 53.8 | 52.6 | 51.8 | 51.3 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 |
| 114.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 92.7 | 86.3 | 76.4 | 69.1 | 63.5 | 59.2 | 55.8 | 53.1 | 51.0 | 49.3 | 48.0 | 47.1 | 46.4 | 46.0 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 |
| 120.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.7 | 87.4 | 81.3 | 71.8 | 64.8 | 59.4 | 55.3 | 52.0 | 49.3 | 47.2 | 45.5 | 44.2 | 43.2 | 42.4 | 41.9 | 41.5 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 |
| 126.0 | 100.0 | 100.0 | 100.0 | 98.2 | 89.6 | 82.6 | 76.7 | 67.7 | 60.9 | 55.8 | 51.8 | 48.6 | 46.0 | 44.0 | 42.3 | 40.9 | 39.8 | 39.0 | 38.4 | 37.9 | 37.7 | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 |
| 132.0 | 100.0 | 100.0 | 100.0 | 93.3 | 85.0 | 78.3 | 72.7 | 64.0 | 57.6 | 52.6 | 48.8 | 45.7 | 43.1 | 40.7 | 38.7 | 37.0 | 35.7 | 34.7 | 33.9 | 33.3 | 32.9 | 32.6 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 |
| 138.0 | 100.0 | 100.0 | 93.7 | 88.8 | 80.9 | 74.4 | 68.6 | 59.4 | 52.6 | 47.4 | 43.3 | 40.0 | 37.3 | 35.1 | 33.3 | 31.9 | 30.7 | 29.7 | 28.9 | 28.3 | 27.8 | 27.5 | 27.3 | 27.2 | 27.2 | 27.2 | 27.2 |
| 144.0 | 100.0 | 100.0 | 89.0 | 79.4 | 71.7 | 65.4 | 60.2 | 52.1 | 46.1 | 41.5 | 37.8 | 34.9 | 32.5 | 30.6 | 29.0 | 27.6 | 26.5 | 25.6 | 24.8 | 24.2 | 23.8 | 23.4 | 23.2 | 23.0 | 22.9 | 22.9 | 22.9 |

- NOTE:**
- 1) MULLION CHART APPLIES TO 6-9/16" (ITEM #1B) GROUP VI REINFORCED COMPOSITE MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
 - GUSSET INSTALLATION TO WOOD OR METAL STUD
 - HALF GUSSET INSTALLATION TO WOOD OR METAL STUD.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) REFER TO SHEETS 8 & 9 FOR INSTALLATION DETAILS.
 - 8) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

$$\frac{A + B}{2} = W$$



100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: A SERIES REINFORCED MULLION ASSEMBLY ONE WAY
 LOAD TABLE: GROUP VI

PREPARED BY:
 BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD. #338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478 FX: (954) 744-4738

| REVISIONS | | NO. | DESCRIPTION | BY | DATE |
|-----------|------------------------------|-----|-------------|----|------|
| A | REV. TO INCLUDE 6-9/16" MULL | MS | 02.09.16 | | |
| B | UPDATE MULL TABLES & T.O.C. | MS | 07.11.16 | | |

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

DATE: 10.12.15
 DWN BY: LMS
 CHK BY: HFN
 SCALE: NTS

DWG #: **AWD086**
 SHEET: **16 OF 15**

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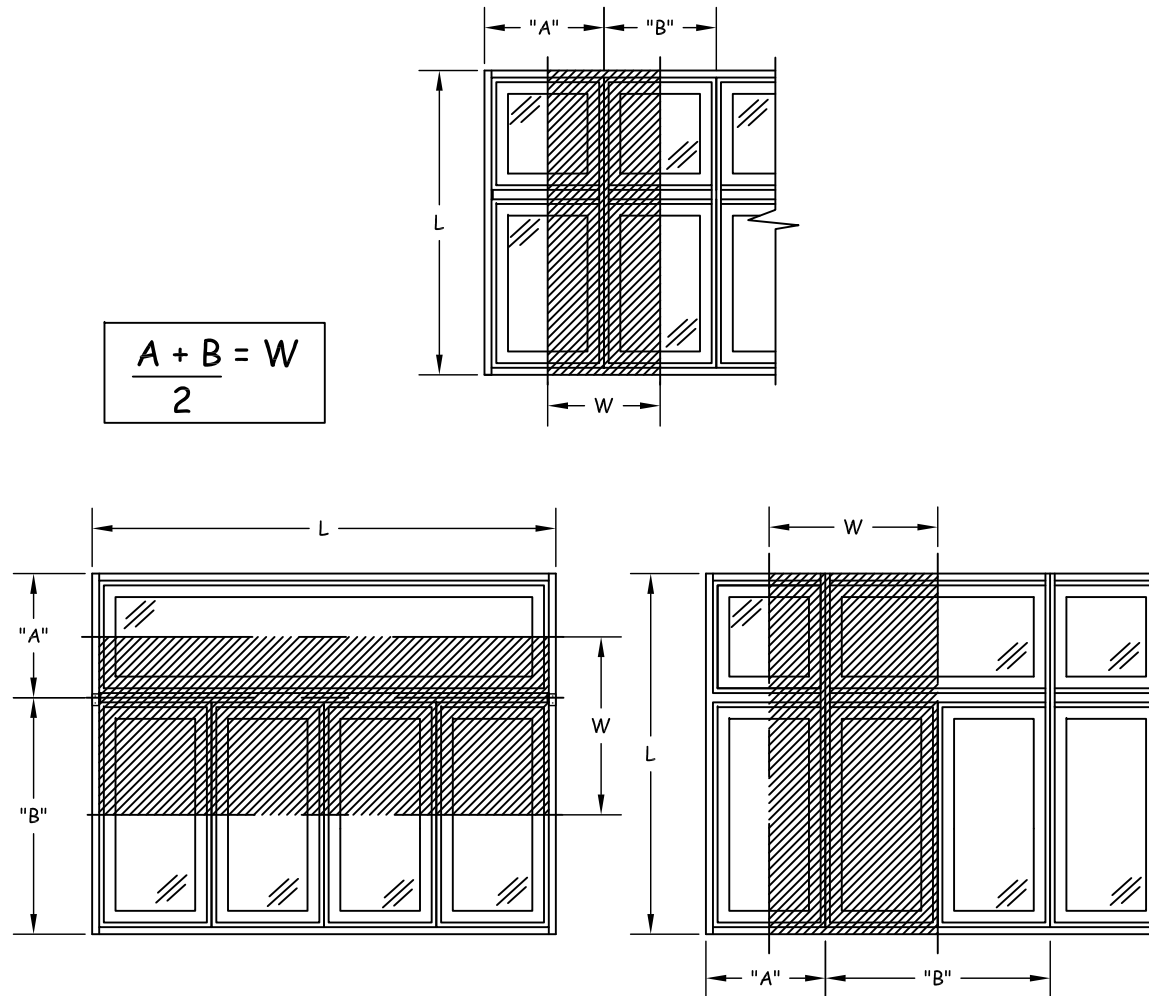
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUP IV, V, OR VI (TWO-WAY CONFIGURATIONS)

| L - Mull Length (in) | W - Tributary Width (in) | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 | 102.0 | 108.0 | 114.0 | 120.0 | 126.0 | 132.0 | 138.0 | 144.0 | |
| 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 | 100.0 | 100.0 | 100.0 | 100.0 | 98.7 | 94.2 | 90.1 | 86.3 | |
| 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 | 100.0 | 97.5 | 92.1 | 87.2 | 82.9 | 78.9 | 75.3 | 72.1 | 69.1 |
| 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 | 98.7 | 92.1 | 86.3 | 81.3 | 76.7 | 72.7 | 69.1 | 65.8 | 62.8 | 60.1 | 57.6 |
| 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 | 98.7 | 91.1 | 84.6 | 78.9 | 74.0 | 69.6 | 65.8 | 62.3 | 59.2 | 56.4 | 53.8 | 51.5 | 49.3 |
| 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 | 94.2 | 86.3 | 79.7 | 74.0 | 69.1 | 64.8 | 60.9 | 57.6 | 54.5 | 51.8 | 49.3 | 47.1 | 45.0 | 43.2 |
| 54.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 92.1 | 83.7 | 76.7 | 70.8 | 65.8 | 61.4 | 57.6 | 54.2 | 51.2 | 48.5 | 46.0 | 43.9 | 41.9 | 40.0 | 38.4 |
| 60.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 92.1 | 82.9 | 75.3 | 69.1 | 63.8 | 59.2 | 55.3 | 51.8 | 48.8 | 46.0 | 43.6 | 41.4 | 39.5 | 37.7 | 36.0 | 34.5 |
| 66.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.2 | 83.7 | 75.3 | 68.5 | 62.8 | 58.0 | 53.8 | 50.2 | 47.1 | 44.3 | 41.9 | 39.7 | 37.7 | 35.9 | 34.2 | 32.8 | 31.4 |
| 72.0 | 100.0 | 100.0 | 100.0 | 9.0 | 100.0 | 100.0 | 100.0 | 98.7 | 86.3 | 76.7 | 69.1 | 62.8 | 57.6 | 53.1 | 49.3 | 46.0 | 43.2 | 40.6 | 38.4 | 36.4 | 34.5 | 32.9 | 31.4 | 30.0 | 28.8 | |
| 78.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 91.1 | 79.7 | 70.8 | 63.8 | 58.0 | 53.1 | 49.0 | 45.5 | 42.5 | 39.8 | 37.5 | 35.4 | 33.6 | 31.9 | 30.4 | 29.0 | 27.7 | 26.6 | |
| 84.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.7 | 84.6 | 74.0 | 65.8 | 59.2 | 53.8 | 49.3 | 45.5 | 42.3 | 39.5 | 37.0 | 34.8 | 32.9 | 31.2 | 29.6 | 28.2 | 26.9 | 25.7 | 24.7 | |
| 90.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 92.1 | 78.9 | 69.1 | 61.4 | 55.3 | 50.2 | 46.0 | 42.5 | 39.5 | 36.8 | 34.5 | 32.5 | 30.7 | 29.1 | 27.6 | 26.3 | 25.1 | 24.0 | 23.0 | |
| 96.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.2 | 86.3 | 74.0 | 64.8 | 57.6 | 51.8 | 47.1 | 43.2 | 39.8 | 37.0 | 34.5 | 32.4 | 30.5 | 28.8 | 27.3 | 25.9 | 24.7 | 23.5 | 22.5 | 21.6 | |
| 102.0 | 100.0 | 100.0 | 100.0 | 100.0 | 97.5 | 88.6 | 81.3 | 69.6 | 60.9 | 54.2 | 48.8 | 44.3 | 40.6 | 37.5 | 34.8 | 32.5 | 30.5 | 28.7 | 27.1 | 25.7 | 24.4 | 23.2 | 22.2 | 21.2 | 20.3 | |
| 108.0 | 100.0 | 100.0 | 100.0 | 100.0 | 92.1 | 83.7 | 76.7 | 65.8 | 60.9 | 54.2 | 48.8 | 44.3 | 40.6 | 37.5 | 34.8 | 32.5 | 30.5 | 28.7 | 27.1 | 25.6 | 24.2 | 23.0 | 21.9 | 20.9 | 19.2 | |
| 114.0 | 100.0 | 100.0 | 100.0 | 96.9 | 87.2 | 79.3 | 72.7 | 62.3 | 54.5 | 48.5 | 43.6 | 39.7 | 36.4 | 33.6 | 31.2 | 29.1 | 27.3 | 25.7 | 24.2 | 23.0 | 21.8 | 20.8 | 19.8 | 19.0 | 18.2 | |
| 120.0 | 100.0 | 100.0 | 100.0 | 92.1 | 82.9 | 75.3 | 69.1 | 59.2 | 51.8 | 46.0 | 41.4 | 37.7 | 34.5 | 31.9 | 29.6 | 27.6 | 25.9 | 24.4 | 23.0 | 21.8 | 20.7 | 19.7 | 18.8 | 18.0 | 17.3 | |
| 126.0 | 100.0 | 100.0 | 98.7 | 87.7 | 78.9 | 71.8 | 65.8 | 56.4 | 49.3 | 43.9 | 39.5 | 35.9 | 32.9 | 30.4 | 28.2 | 26.3 | 24.7 | 23.2 | 21.9 | 20.8 | 19.7 | 18.8 | 17.9 | 17.2 | 16.4 | |
| 132.0 | 100.0 | 100.0 | 90.1 | 80.1 | 72.1 | 65.5 | 60.1 | 51.5 | 45.1 | 40.0 | 36.0 | 32.8 | 30.0 | 27.7 | 25.7 | 24.0 | 22.5 | 21.2 | 20.0 | 19.0 | 18.0 | 17.2 | 16.4 | 15.7 | 15.0 | |
| 138.0 | 100.0 | 94.2 | 82.4 | 73.3 | 66.0 | 60.0 | 55.0 | 47.1 | 41.2 | 36.6 | 33.0 | 30.0 | 27.5 | 25.4 | 23.6 | 22.0 | 20.6 | 19.4 | 18.3 | 17.4 | 16.5 | 15.7 | - | - | - | |
| 144.0 | 100.0 | 86.5 | 75.7 | 67.3 | 60.6 | 55.1 | 50.5 | 43.3 | 37.9 | 33.7 | 30.3 | 27.5 | 25.2 | 23.3 | 21.6 | 20.2 | 18.9 | 17.8 | 16.8 | 15.9 | 15.1 | - | - | - | - | |

NOTE:

- MULLION CHART APPLIES TO 6-9/16" (ITEM #1B) GROUP IV, V, OR VI REINFORCED COMPOSITE MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY, 'X' OR 'T', CONFIGURATIONS.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
- DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
 - V-NOTCH GUSSET INSTALLATION TO WOOD OR METAL STUD
 - HALF GUSSET INSTALLATION TO WOOD OR METAL STUD.
- TRIBUTARY WIDTH = $W = (A+B)/2$
- REFER TO SHEETS 8 OR 9 FOR INSTALLATION DETAILS.
- WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

$$\frac{A + B}{2} = W$$



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: A SERIES REINFORCED MULLION ASSEMBLY TWO WAY
LOAD TABLE: GROUP IV, V, VI
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

| REVISIONS | | BY | DATE |
|-----------|------------------------------|----|----------|
| NO. | DESCRIPTION | | |
| A | REV. TO INCLUDE 6-9/16" MULL | MS | 02.09.16 |
| B | UPDATE MULL TABLES & T.O.C. | MS | 07.11.16 |

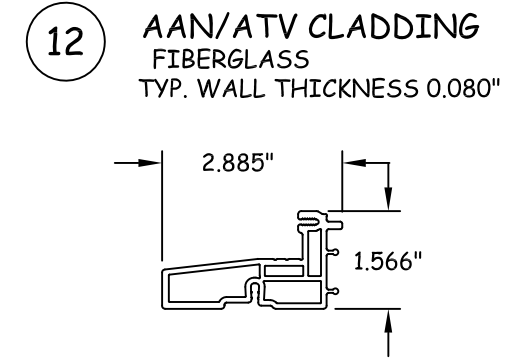
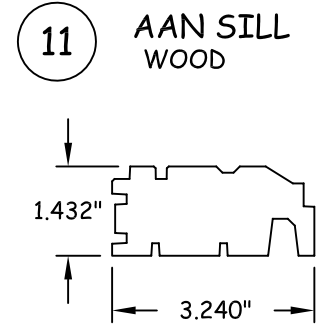
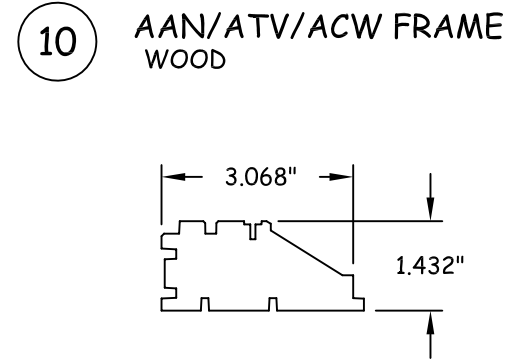
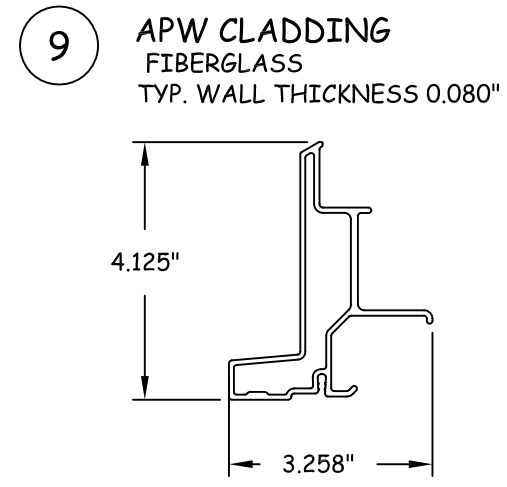
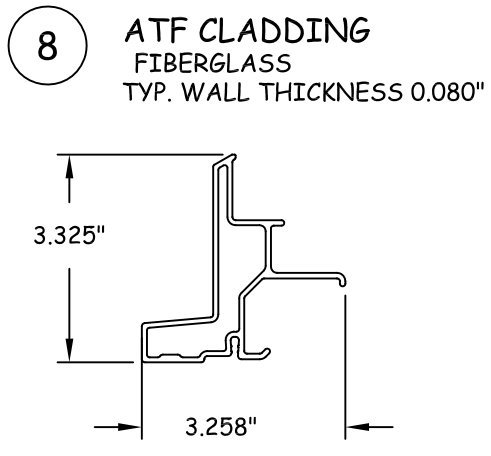
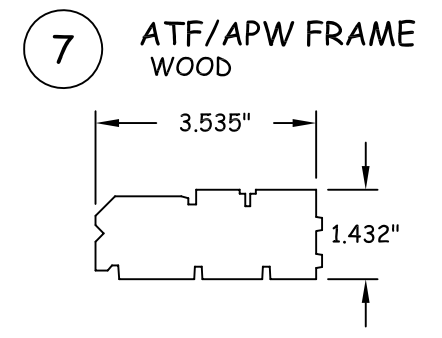
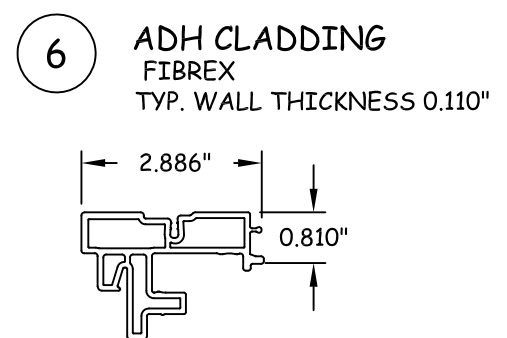
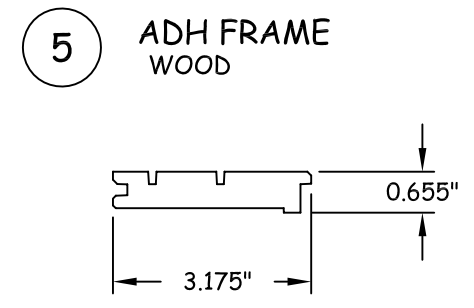
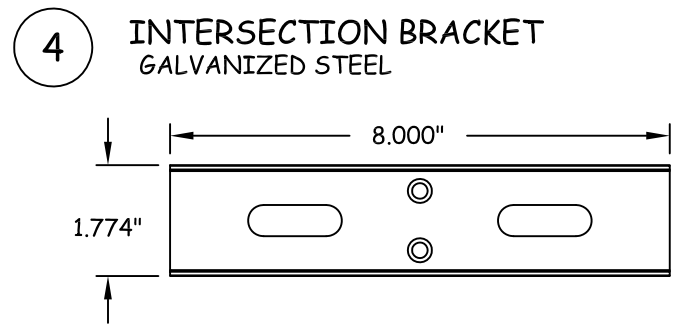
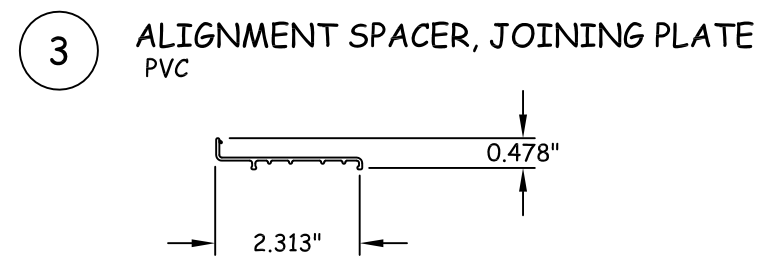
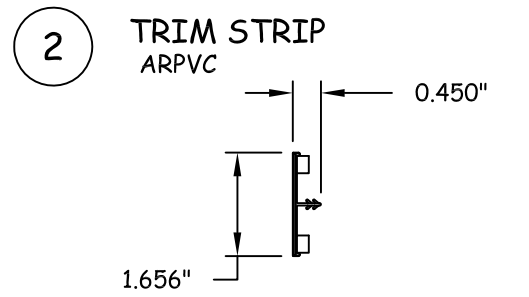
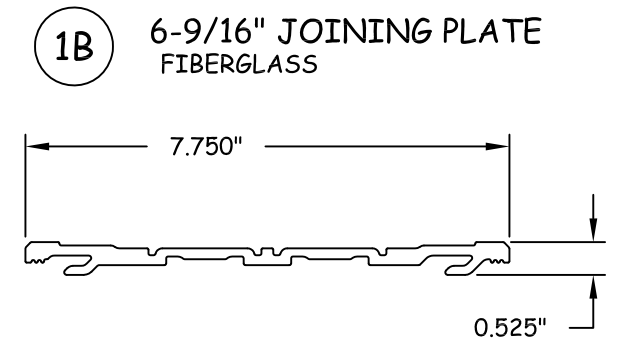
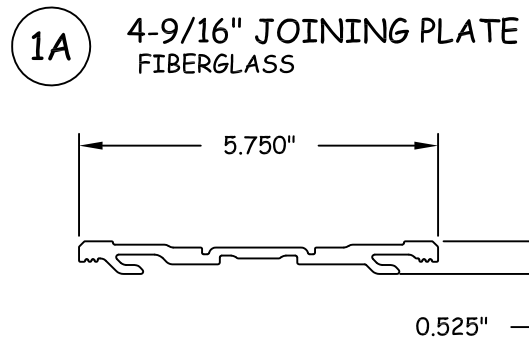
HERMES F. NORRERO, P.E.
FLORIDA P. E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

DWG #: **AWD086**
SHEET: **17 OF 15**

BILL OF MATERIALS

| ITEM | DESCRIPTION | MATERIAL | MANUFACTURER |
|------|---------------------------------|--------------------|----------------------|
| 1A | 4-9/16" JOINING PLATE | FIBERGLASS | ANDERSEN CORPORATION |
| 1B | 6-9/16" JOINING PLATE | FIBERGLASS | ANDERSEN CORPORATION |
| 2 | TRIM STRIP | ARPCV | ANDERSEN CORPORATION |
| 3 | ALIGNMENT SPACER, JOINING PLATE | PVC | ANDERSEN CORPORATION |
| 4 | INTERSECTION BRACKET | GALVANIZED STEEL | ANDERSEN CORPORATION |
| 5 | ADH FRAME | WOOD | ANDERSEN CORPORATION |
| 6 | ADH CLADDING | FIBREX | ANDERSEN CORPORATION |
| 7 | ATF/APW FRAME | WOOD | ANDERSEN CORPORATION |
| 8 | ATF CLADDING | FIBERGLASS | ANDERSEN CORPORATION |
| 9 | APW CLADDING | FIBERGLASS | ANDERSEN CORPORATION |
| 10 | AAN/ATV/ACW FRAME | WOOD | ANDERSEN CORPORATION |
| 11 | AAN SILL | WOOD | ANDERSEN CORPORATION |
| 12 | AAN/ATV CLADDING | FIBERGLASS | ANDERSEN CORPORATION |
| 13 | FWGD HEAD | WOOD | ANDERSEN CORPORATION |
| 14 | FWGD JAMBS | WOOD | ANDERSEN CORPORATION |
| 15 | FWGD CLADDING | FIBERGLASS | ANDERSEN CORPORATION |
| 16 | FWSLT FRAME | WOOD | ANDERSEN CORPORATION |
| 17 | FWSLT CLADDING | FIBERGLASS | ANDERSEN CORPORATION |
| 18 | FWHID FRAME | WOOD | ANDERSEN CORPORATION |
| 19 | FWHID CLADDING | FIBERGLASS | ANDERSEN CORPORATION |
| 20 | FWOD FRAME | WOOD | ANDERSEN CORPORATION |
| 21 | FWOD CLADDING | FIBERGLASS | ANDERSEN CORPORATION |
| 22 | FLEXIFRAME | WOOD | ANDERSEN CORPORATION |
| 23 | FLEXIFRAME CLADDING | FIBERGLASS | ANDERSEN CORPORATION |
| 24 | FW FRAME | WOOD | ANDERSEN CORPORATION |
| 25 | FW CLADDING | 6063-T5 | ANDERSEN CORPORATION |
| 26 | ARCH. FRAME | WOOD | ANDERSEN CORPORATION |
| 27 | ARCH. CLADDING | 6063-T5 | ANDERSEN CORPORATION |
| 28 | FWGD CLADDING - JAMB | FIBERGLASS | ANDERSEN CORPORATION |
| 29 | END PLUG | GLASS FILLED NYLON | ANDERSEN CORPORATION |
| 30 | UNIVERSAL GUSSET, STRAIGHT, 18 | GALVANIZED STEEL | ANDERSEN CORPORATION |
| 31 | END SEAL | PVC | ANDERSEN CORPORATION |
| 32 | HALF GUSSET, LS SILL, RS HEAD | GALVANIZED STEEL | ANDERSEN CORPORATION |
| 33 | HALF GUSSET, RS SILL, LS HEAD | GALVANIZED STEEL | ANDERSEN CORPORATION |



100 FOURTH AVE NORTH
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TITLE: A SERIES REINFORCED
MULLION ASSEMBLY
B.O.M. & COMPONENTS
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

| REVISIONS | | NO. | DESCRIPTION | BY | DATE |
|-----------|------------------------------|-----|-------------|----|----------|
| A | REV. TO INCLUDE 6-9/16" MULL | MS | | | 02.09.16 |

HERMES F. NORRERO, P.E.
FLORIDA P. E. NO. 73778
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DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

DWG #: **AWD086**
SHEET: **18 OF 15**

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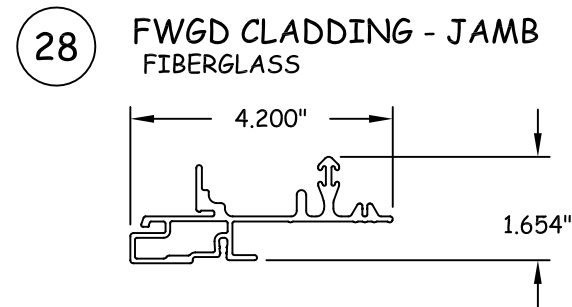
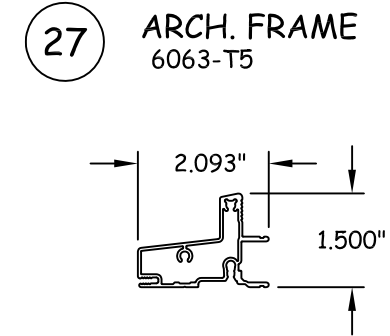
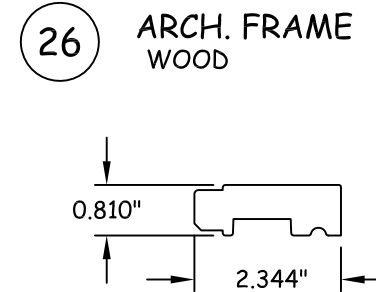
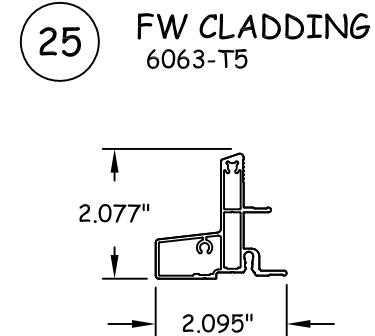
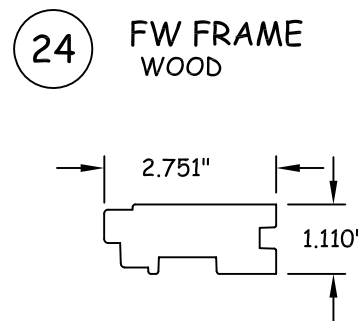
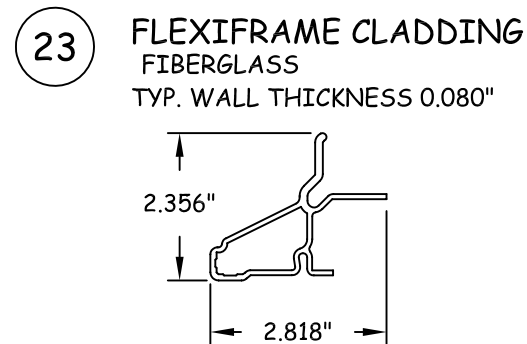
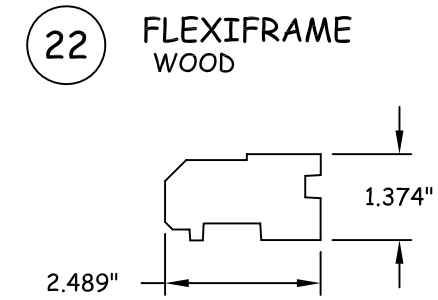
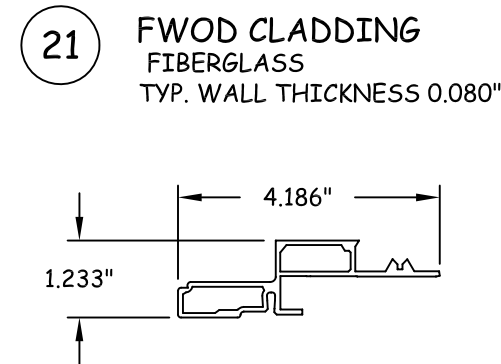
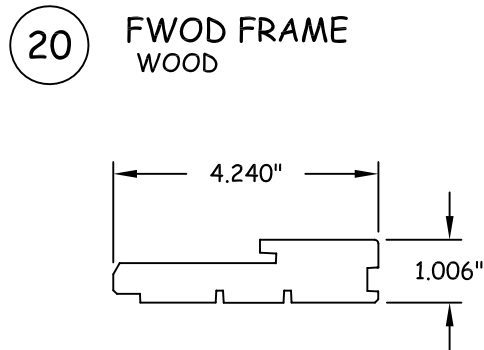
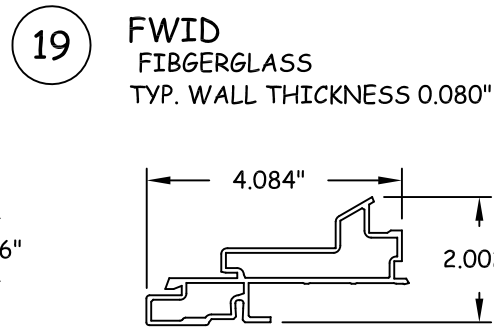
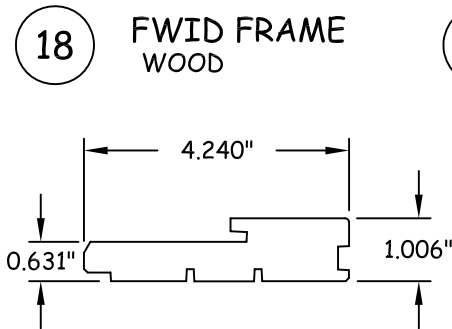
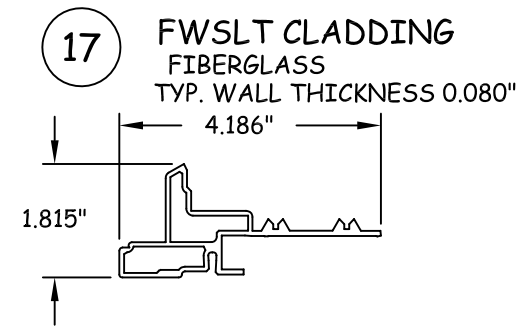
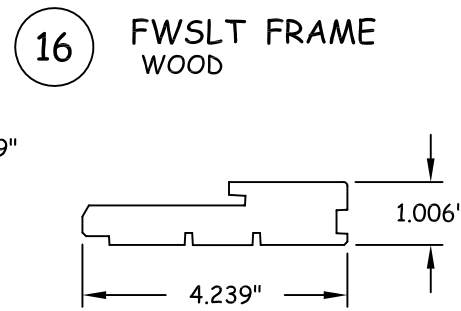
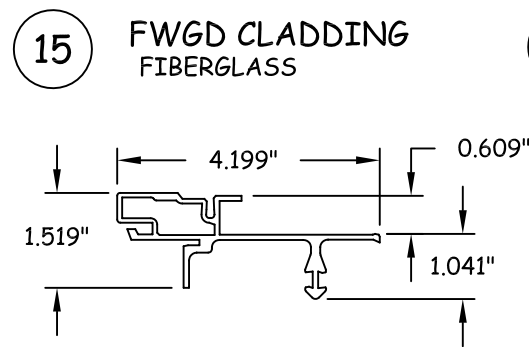
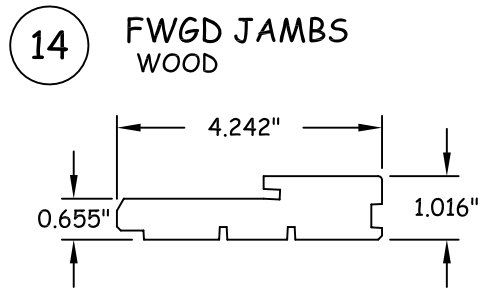
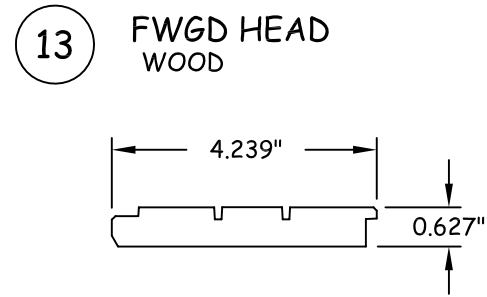
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100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485



TITLE: A SERIES REINFORCED
MULLION ASSEMBLY
COMPONENTS (1)

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

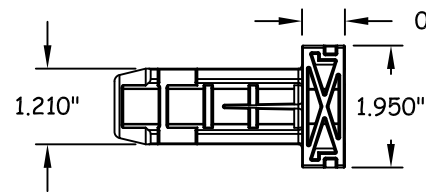
| REVISIONS | | NO. | DESCRIPTION | BY | DATE |
|-----------|------------------------------|-----|-------------|----|------|
| A | REV. TO INCLUDE 6-9/16" MULL | MS | 02.09.16 | | |

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

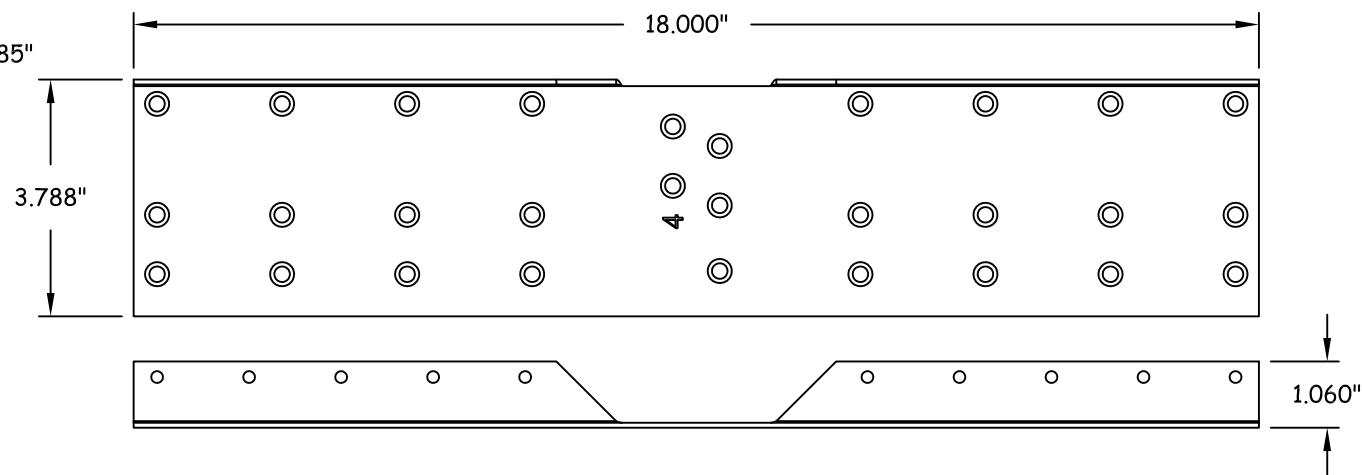
DATE: 10.12.15
DWN BY: LMS
CHK BY: HFN
SCALE: NTS

DWG #: **AWD086**
SHEET: **19 OF 15**

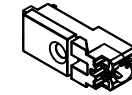
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GLASS FILLED NYLON



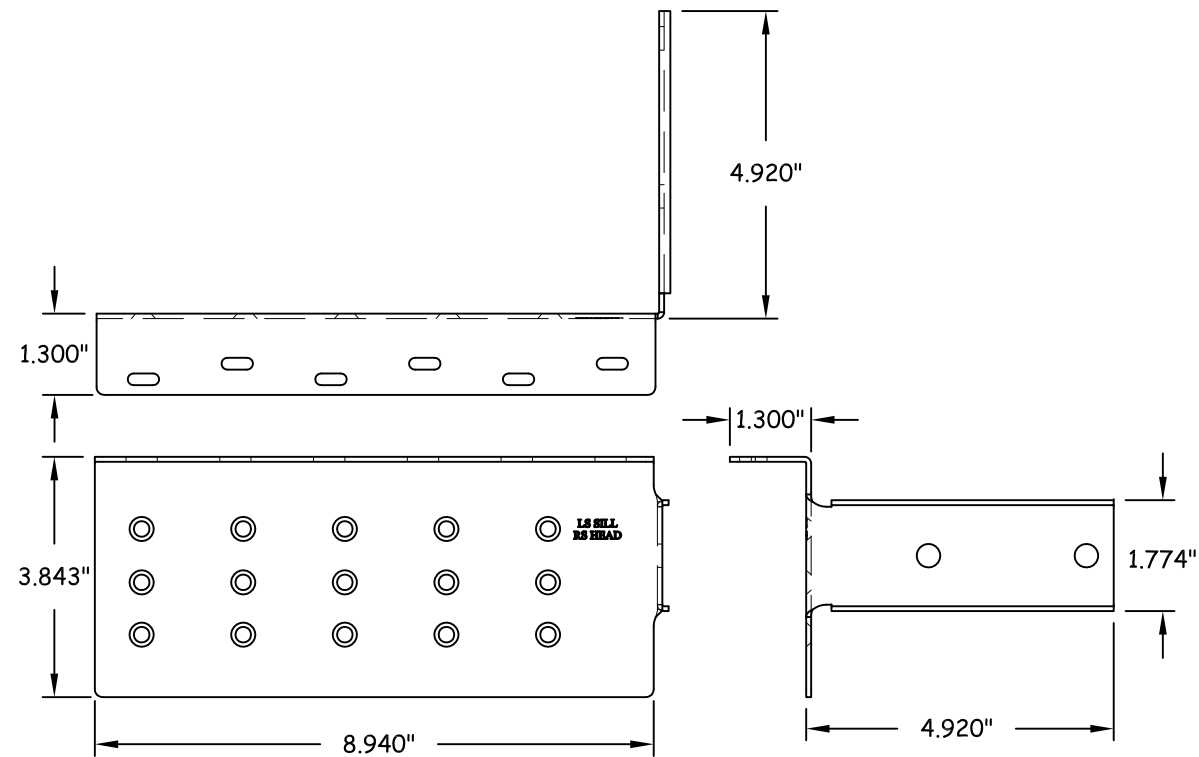
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14 GA. GALVANIZED STEEL



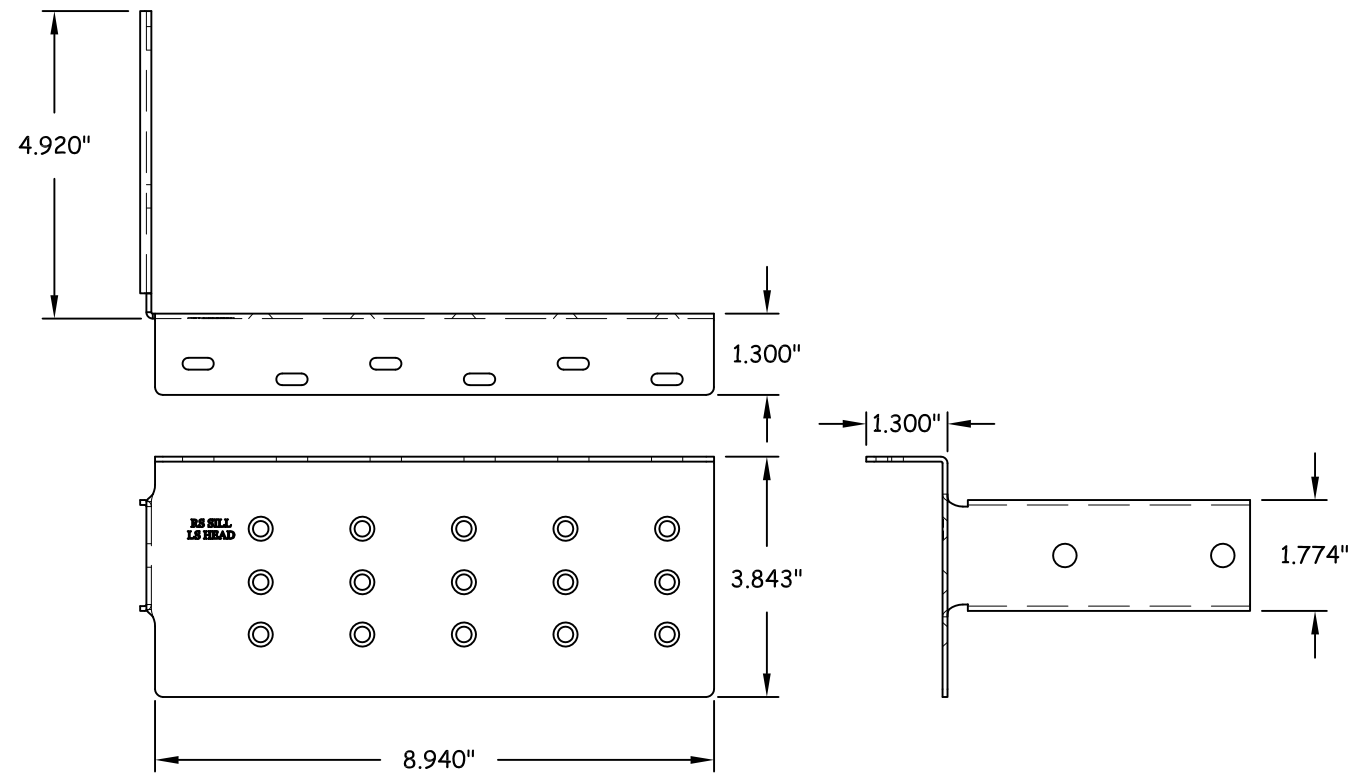
31 END SEAL
PVC



32 HALF GUSSET, LS SILL, RS HEAD
14 GA. GALVANIZED STEEL



33 HALF GUSSET, RS SILL, LS HEAD
14 GA. GALVANIZED STEEL



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TITLE: A SERIES REINFORCED
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COMPONENTS (2)
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

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DATE: 10.12.15
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CHK BY: HFN
SCALE: NTS

DWG #: **AWD086**
SHEET: **20 OF 15**

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