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INSTALLATION NOTES:

1. *ONE (1)* INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. 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.
4. FOR INSTALLATION THROUGH 2X BUCK USE #10 WOOD SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

4.1. MINIMUM EMBEDMENT OF 1-1/2" INTO WOOD

4.2. MINIMUM EDGE DISTANCE OF 1/2"

4.3. MINIMUM O.C. DISTANCE OF 3/4"
5. FOR INSTALLATION THROUGH METAL FRAME USE #10 SELF-DRILLING, SAE GR. 5, TYPE SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.

5.1. THREE (3) THREADS MINIMUM PENETRATION BEYOND METAL FRAME WALL.

5.2. MINIMUM EDGE DISTANCE OF 1/2"

5.3. MINIMUM O.C. DISTANCE OF 3/4"
6. FOR INSTALLATION THROUGH MASONRY AND CONCRETE USE, *1/4"* *TITEN SIMPSON* SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.

5.1. MINIMUM EMBEDMENT 2-1/2"

5.2. MINIMUM EDGE DISTANCE OF 1 1/2"

5.3. MINIMUM O.C. DISTANCE OF 3"
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE SHEATHING, & WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
8. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
9. ASSEMBLY SCREWS, #10 FH SCREWS, ARE LOCATED THROUGH SPACER CLIPS (ITEM #3) AT 24" O.C.
10. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
11. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF *0.42*.

B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF *3000 PSI*.

C. GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D. HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

E. STEEL - MINIMUM WALL THICKNESS OF 54 MILS (16 GA.) WHEN THROUGH GUSSET INSTALLATION.

F. ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5)

ANDERSEN CORPORATION

A-SERIES, 400 AND 200 SERIES PATIO DOOR

REINFORCED MULLION ASSEMBLY

(HVHZ) (IMPACT)

GENERAL NOTES:

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

TAS 201-94

TAS 202-94

TAS 203-94
2. 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.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM TEXAS DEPARTMENT OF INSURANCE.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW/DOOR FRAME MATERIAL: *PONDEROSA PINE OR EQUIVALENT (S.G.=0.45)*.
7. IN ACCORDANCE WITH IBC, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES.
8. IN ACCORDANCE WITH THE IBC, DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED.
9. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: OPERABLE PANEL

O: FIXED PANEL
- 11.CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.
- 12.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
13. GROUPS I, II, & III CONSIST OF 4-9/16" MULLIONS (ITEM #1A). GROUPS IV, V, & VI CONSIST OF 6-9/16" MULLIONS (ITEM #1B)

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

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL AND INSTALLATION NOTES
2	MULL ASSEMBLY SECTIONS (1)
3	MULL ASSEMBLY SECTIONS (2)
4	MULL ASSEMBLY SECTIONS (3)
5	MULL ASSEMBLY SECTIONS (4)
6	MULL ASSEMBLY SECTIONS (5)
7	MULL ASSEMBLY SECTIONS (6)
8	MULL ASSEMBLY SECTIONS (7)
9	MULL ASSEMBLY SECTIONS (8)
10	MULL ASSEMBLY SECTIONS (9)
11	MULL ASSEMBLY SECTIONS (10)
12	MULL ASSEMBLY SECTIONS (11)
13	MULL ASSEMBLY SECTIONS (12)
14	GUSSET - INSTALLATION DETAILS
15	HALF GUSSET - INSTALLATION DETAILS
16	FLAT GUSSET - INSTALLATION DETAILS
17	SLIDE GUSSET - INSTALLATION DETAILS
18	ONE-WAY LOAD TABLE: GROUP I
19	ONE-WAY LOAD TABLE: GROUP II
20	ONE-WAY LOAD TABLE: GROUP III
21	TWO-WAY LOAD TABLE: GROUP I, II, III
22	ONE-WAY LOAD TABLE: GROUP IV
23	ONE-WAY LOAD TABLE: GROUP V
24	ONE-WAY LOAD TABLE: GROUP VI
25	TWO-WAY LOAD TABLE: GROUP IV, V, VI
26	BILL OF MATERIALS & COMPONENTS
27	COMPONENTS



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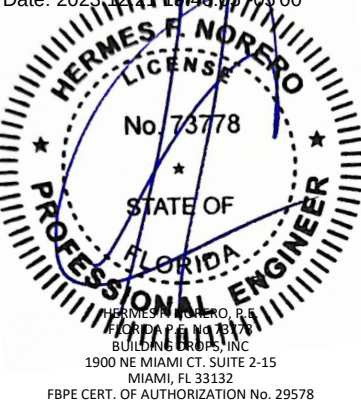
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REINFORCED MULLION JOINING
(HVHZ)(IMPACT)

GENERAL AND INSTALLATION NOTES

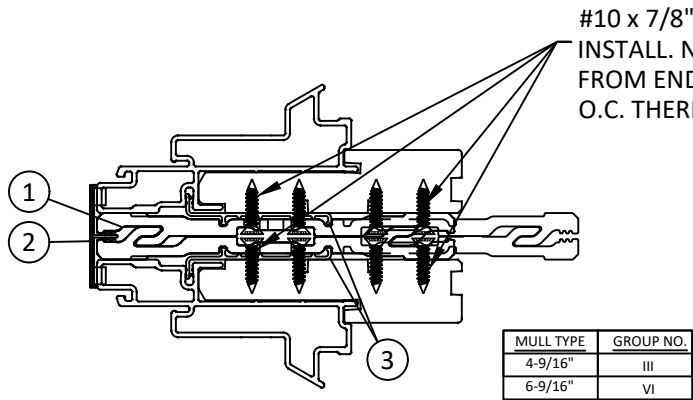
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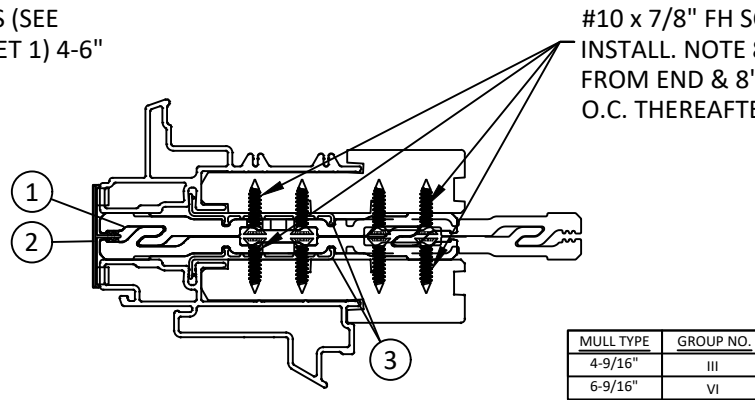


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DATE:	10.16.19	
DWG. BY:	HR	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	AWD249	
SHEET:	1 OF 27	

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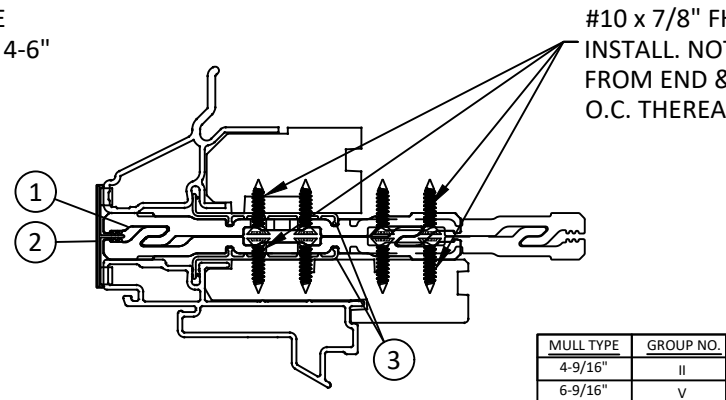
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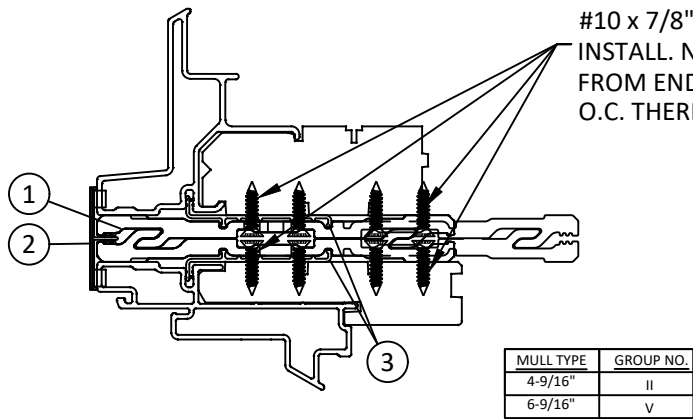
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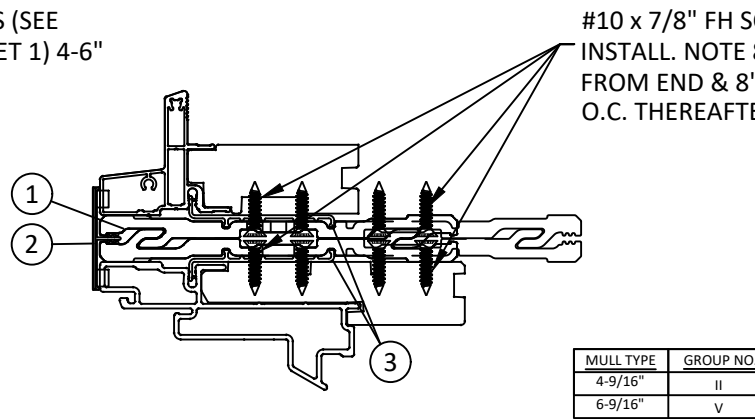
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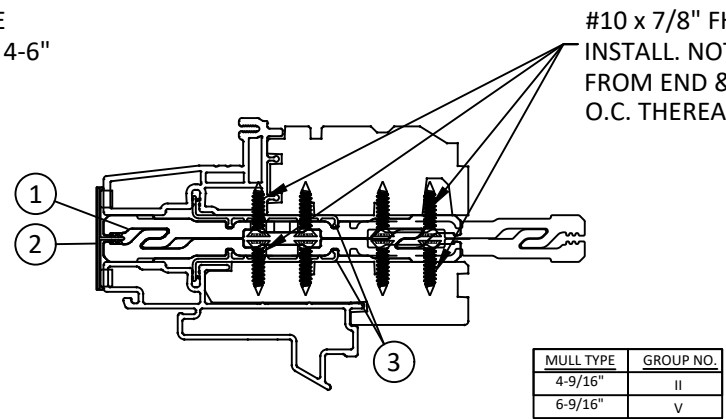
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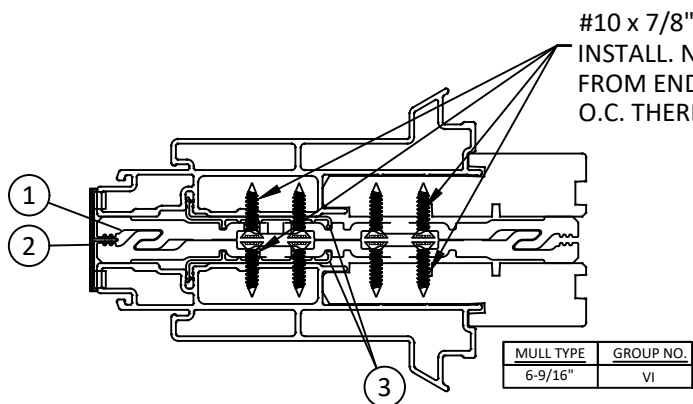
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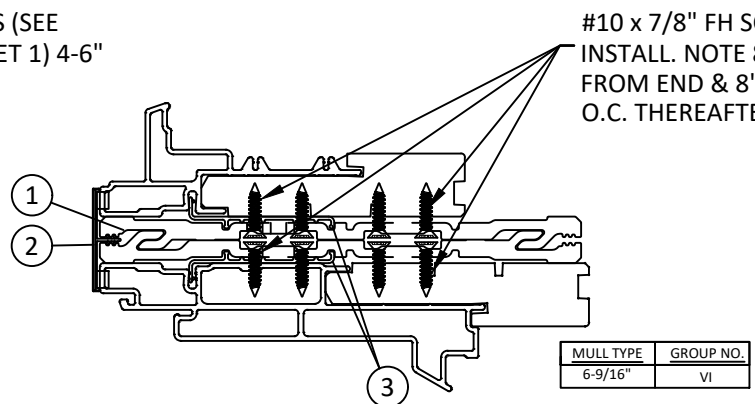
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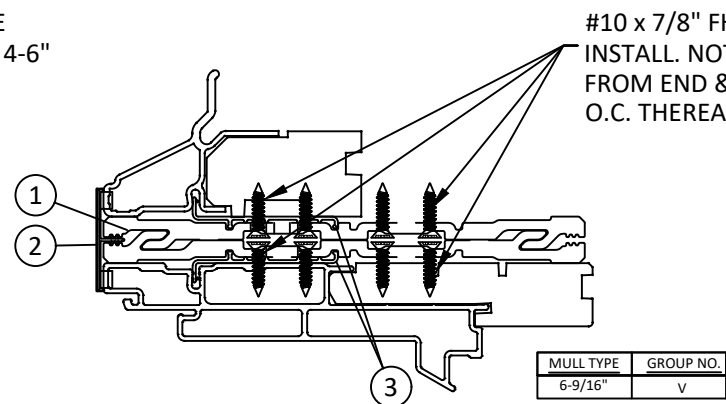
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REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

MULLION ASSEMBLY SECTIONS (1)

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FL15922

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SCALE: **NTS**

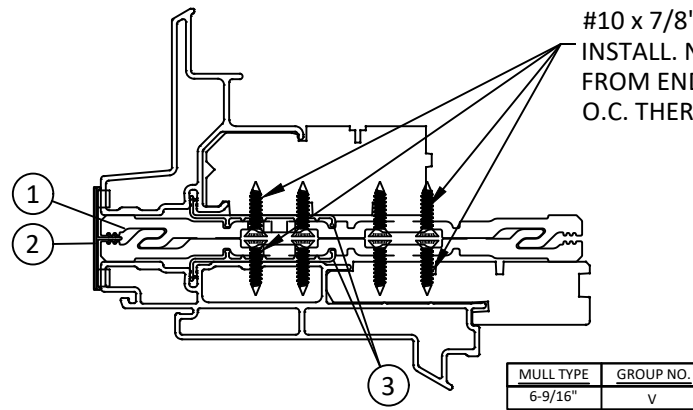
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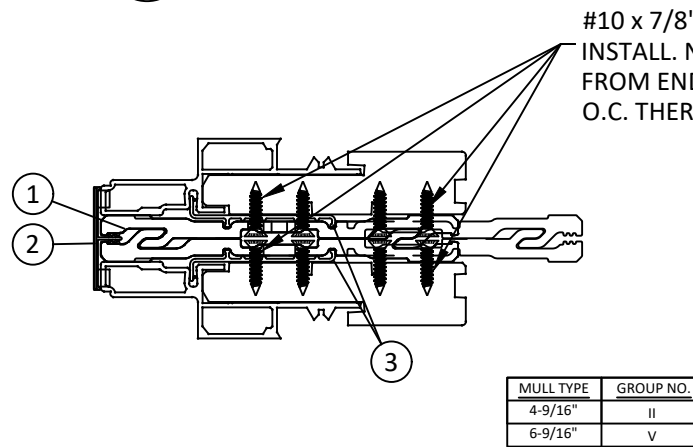
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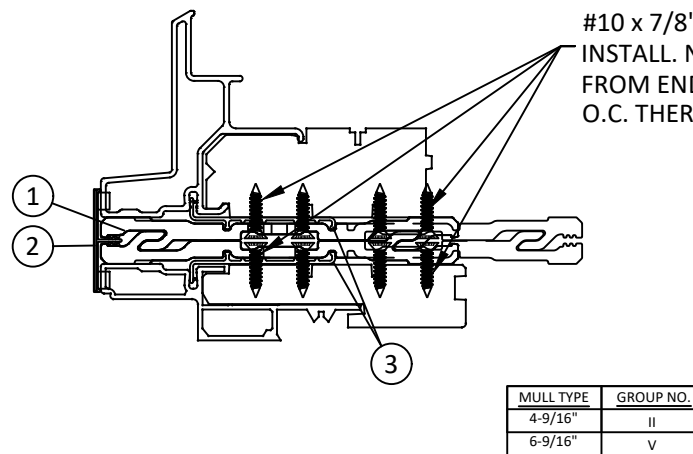
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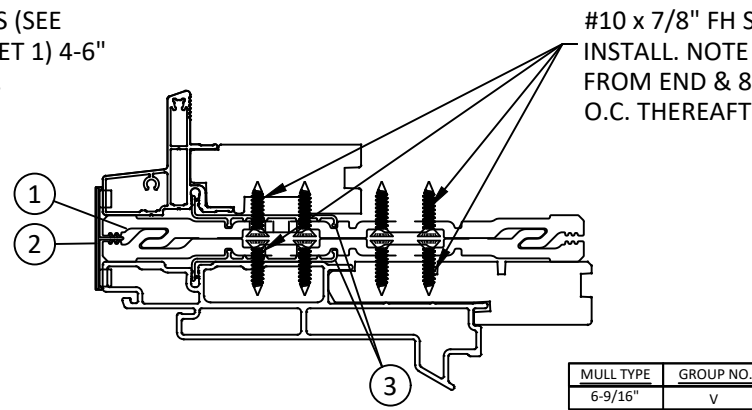
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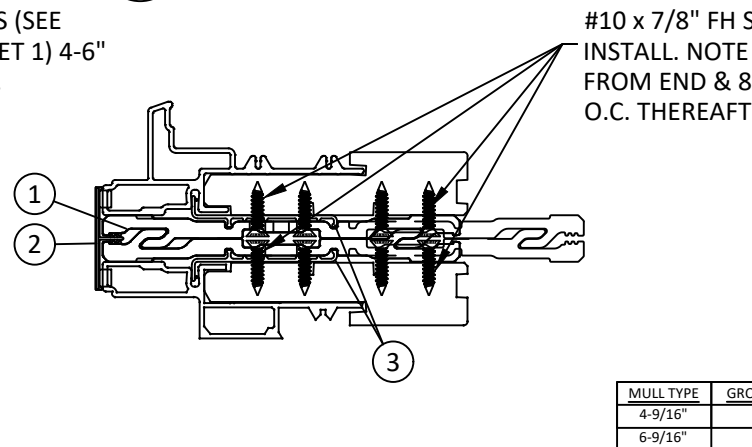
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VERTICAL MULL



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FWOD TO FW
VERTICAL OR HORIZONTAL MULL



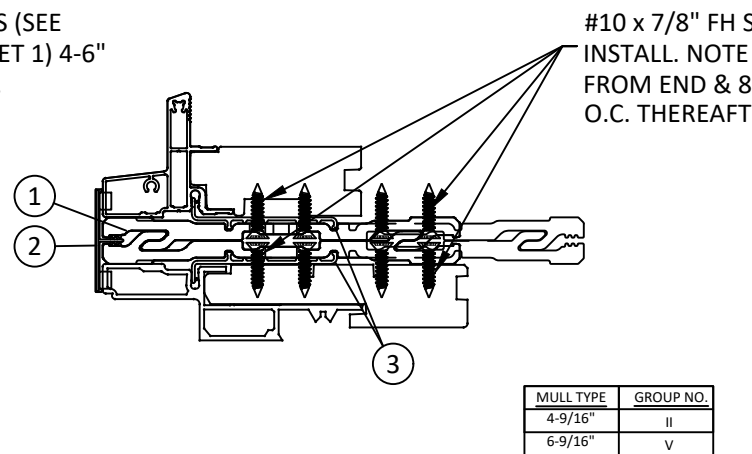
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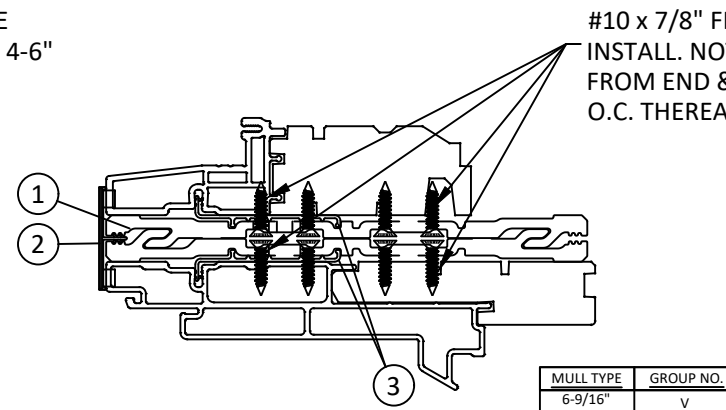
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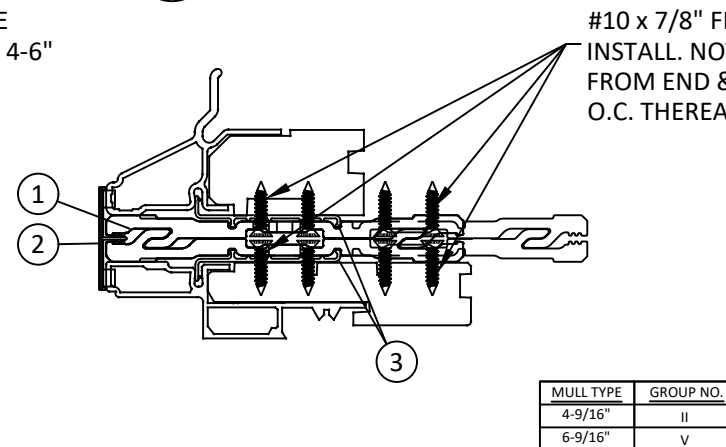
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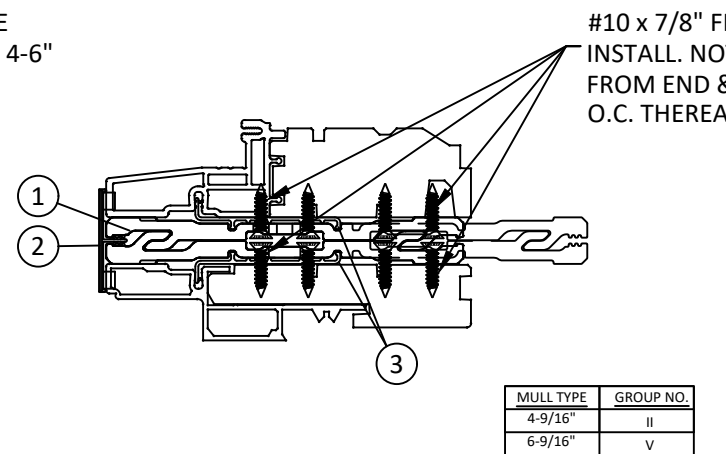
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VERTICAL OR HORIZONTAL MULL



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VERTICAL OR HORIZONTAL MULL



K
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FWOD TO ATV
VERTICAL OR HORIZONTAL MULL



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MULLION ASSEMBLY SECTIONS (2)

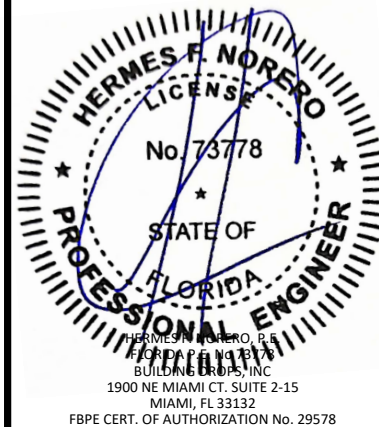
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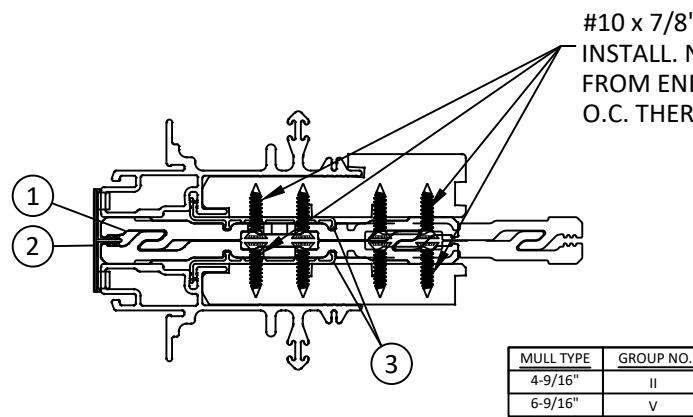
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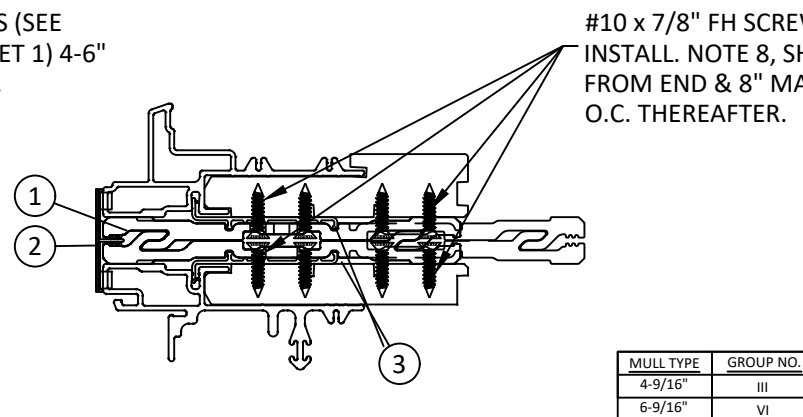


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FWGD TO FWGD
VERTICAL MULL

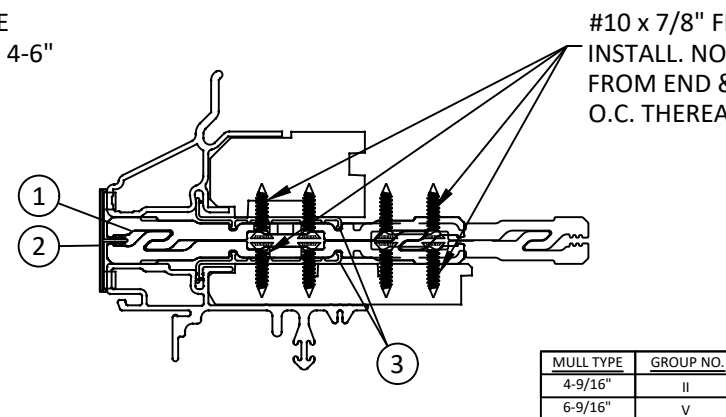


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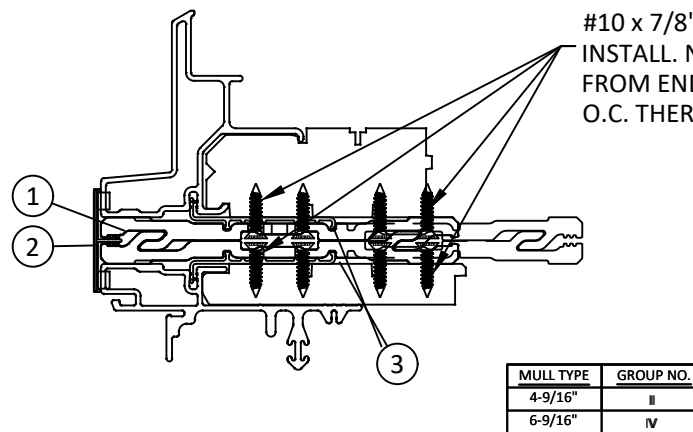
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VERTICAL OR HORIZONTAL MULL

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FWGD TO FWGD SDLT
VERTICAL OR HORIZONTAL MULL

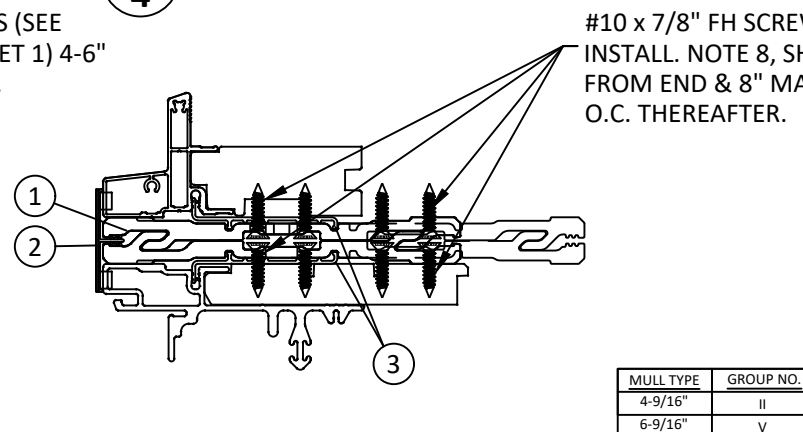
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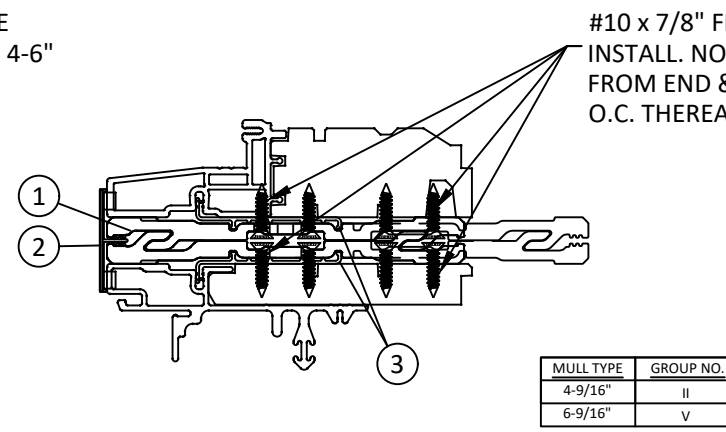
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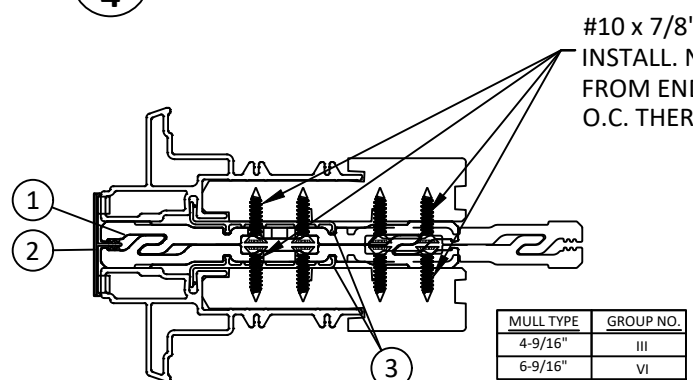
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VERTICAL OR HORIZONTAL MULL



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VERTICAL OR HORIZONTAL MULL

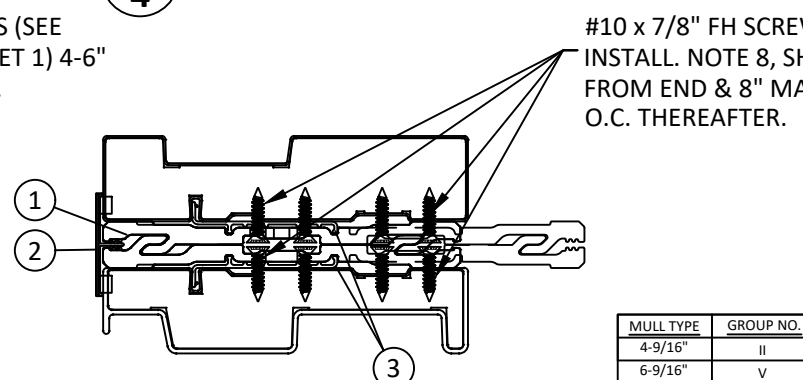


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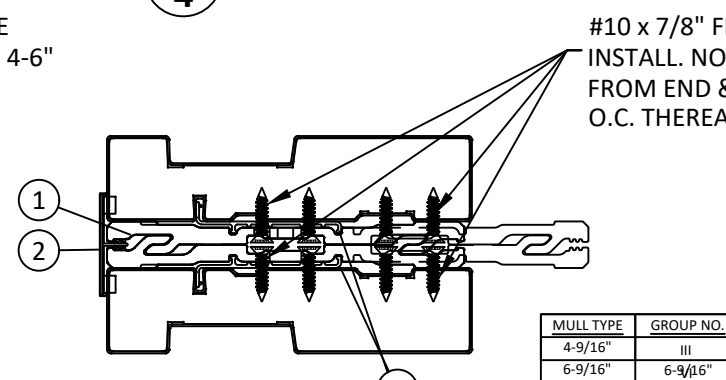
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VERTICAL OR HORIZONTAL MULL



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VERTICAL MULL

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FWG TO FWG
VERTICAL MULL



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PSGD TO PSGD
VERTICAL MULL

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NLGD TO NLGD
VERTICAL MULL

S
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FWG TO FWG
VERTICAL MULL



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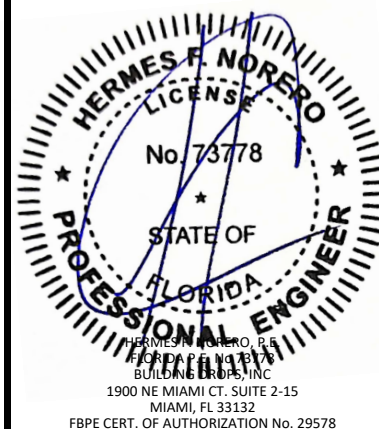
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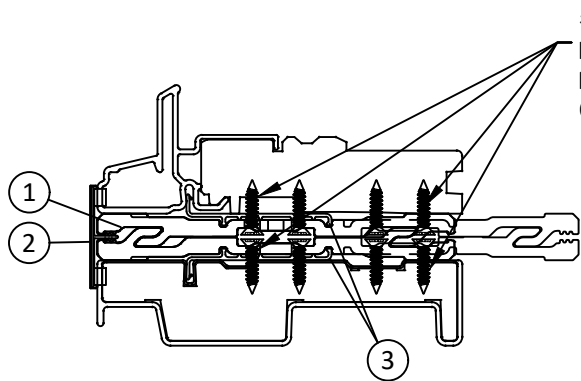
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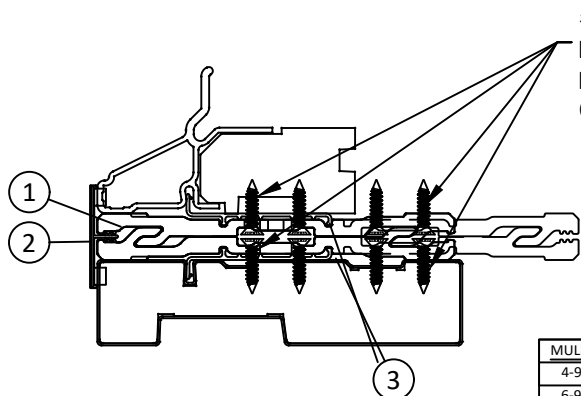
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#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1) 4-6"
FROM END & 8" MAX.
O.C. THEREAFTER.

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

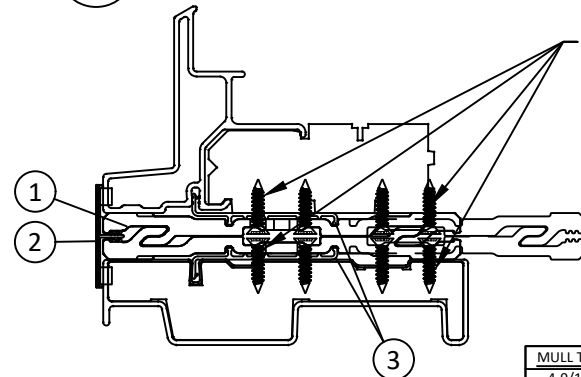
- A**
5 **PSGD TO PSGD**
VERTICAL MULL
- B**
5 **NLGD TO NLGD**
VERTICAL MULL
- C**
5 **FWG TO FWSL**
VERTICAL MULL



#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"	II
6-9/16"	V

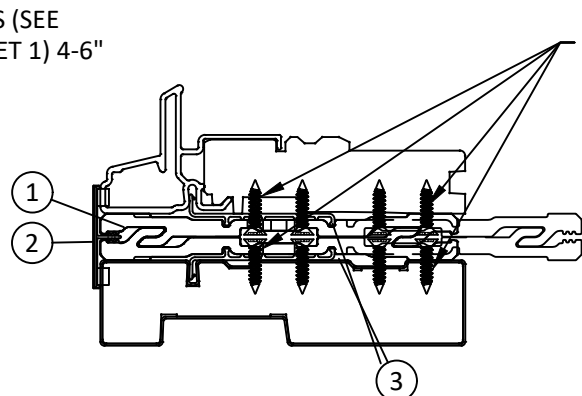
- J**
5 **PSGD TO FLEXI**
VERTICAL MULL
- K**
5 **NLGD TO FLEXI**
VERTICAL MULL
- L**
5 **FWG TO FLEXI**
VERTICAL MULL



#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"	II
6-9/16"	V

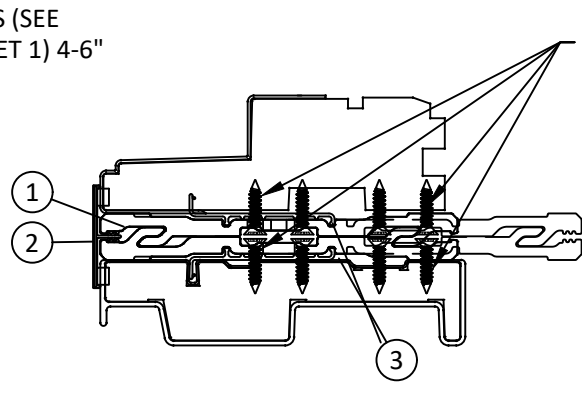
- S**
5 **PSGD TO FW**
VERTICAL MULL
- T**
5 **NLGD TO FW**
VERTICAL MULL
- U**
5 **FWG TO FW**
VERTICAL MULL



#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"	II
6-9/16"	V

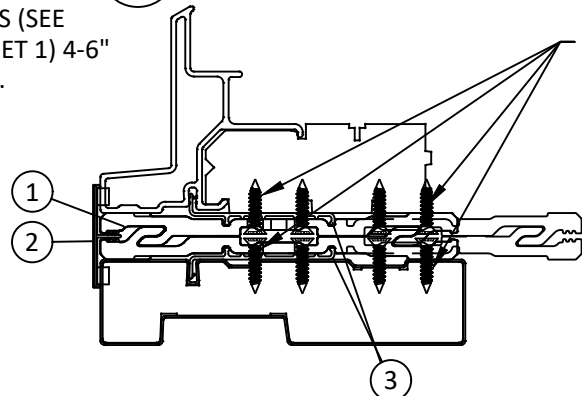
- D**
5 **PSGD TO PSGD**
VERTICAL MULL
- E**
5 **NLGD TO NLGD**
VERTICAL MULL
- F**
5 **FWG TO FWSL**
VERTICAL MULL



#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"	II
6-9/16"	V

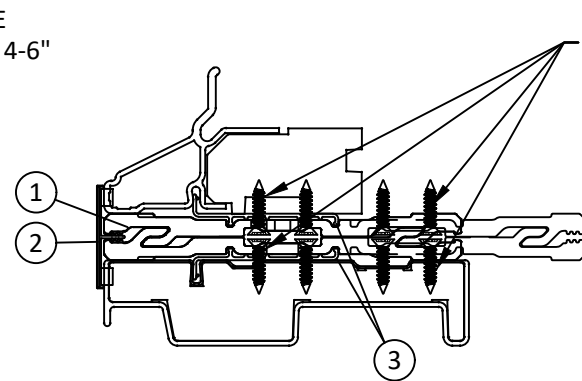
- M**
5 **PSGD TO PSC**
VERTICAL MULL
- N**
5 **NLGD TO PSC**
VERTICAL MULL
- O**
5 **FWG TO PSC**
VERTICAL MULL



#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"	II
6-9/16"	V

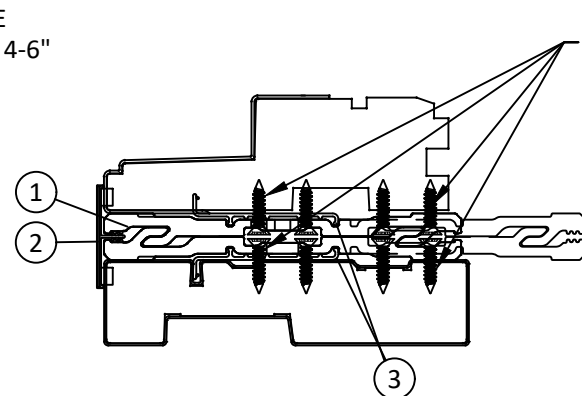
- V**
5 **PSGD TO FW**
VERTICAL MULL
- W**
5 **NLGD TO FW**
VERTICAL MULL
- X**
5 **FWG TO FW**
VERTICAL MULL



#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"	II
6-9/16"	V

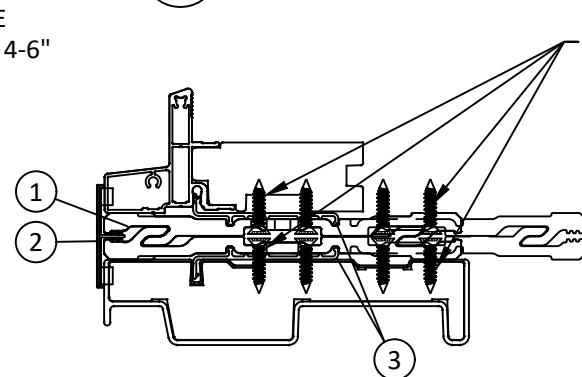
- G**
5 **PSGD TO FLEXI**
VERTICAL MULL
- H**
5 **NLGD TO FLEXI**
VERTICAL MULL
- I**
5 **FWG TO FLEXI**
VERTICAL MULL



#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"	II
6-9/16"	V

- P**
5 **PSGD TO PSC**
VERTICAL MULL
- Q**
5 **NLGD TO PSC**
VERTICAL MULL
- R**
5 **FWG TO PSC**
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"	II
6-9/16"	V

- Y**
5 **PSGD TO FW**
VERTICAL MULL
- Z**
5 **NLGD TO FW**
VERTICAL MULL
- AA**
5 **FWG TO FW**
VERTICAL MULL



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

MULLION ASSEMBLY SECTIONS (4)

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

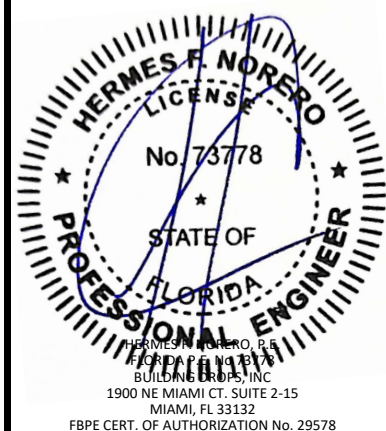
PH: (954) 399-8478
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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FL #:
FL15922

DATE: **10.16.19**

DWG. BY: **HR** CHK. BY: **HFN**

SCALE: **NTS**

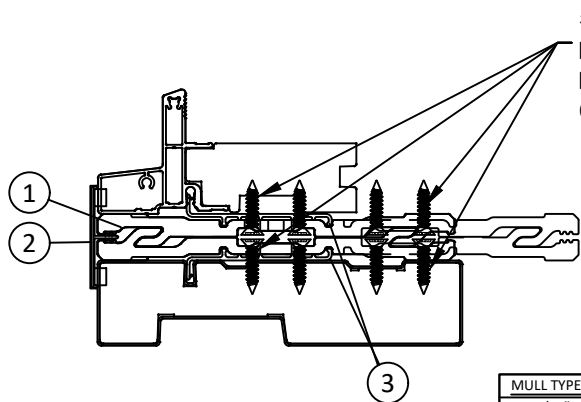
DWG. #: **AWD249**

SHEET:

5

OF 27

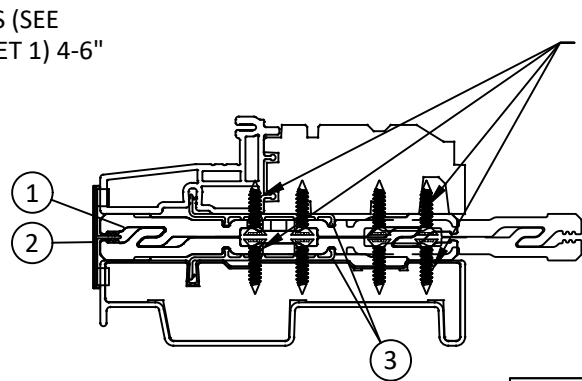
s:\projects\andersen windows\115922 a-series, 400 series, 200 series reinforced mullion - awd249-awd264 rev\dwgs\awd249.dwg 12/21/2023 3:24 PM



#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

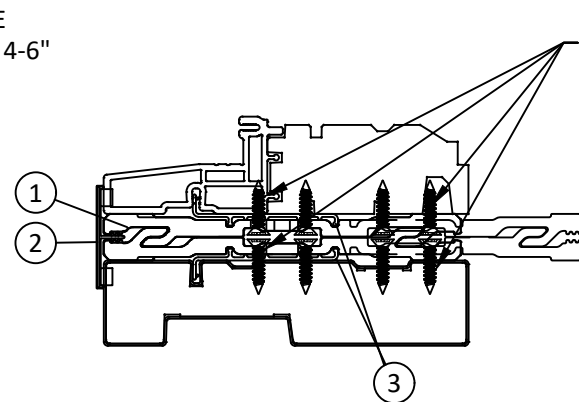
- A**
6
PSGD TO FW
VERTICAL MULL
- B**
6
NLGD TO FW
VERTICAL MULL
- C**
6
FWG TO FW
VERTICAL MULL



#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"	II
6-9/16"	V

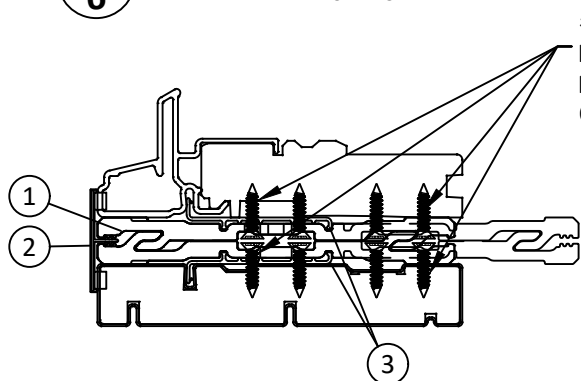
- D**
6
PSGD TO ATV
VERTICAL MULL
- E**
6
NLGD TO ATV
VERTICAL MULL
- F**
6
FWG TO ATV
VERTICAL MULL



#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"	II
6-9/16"	V

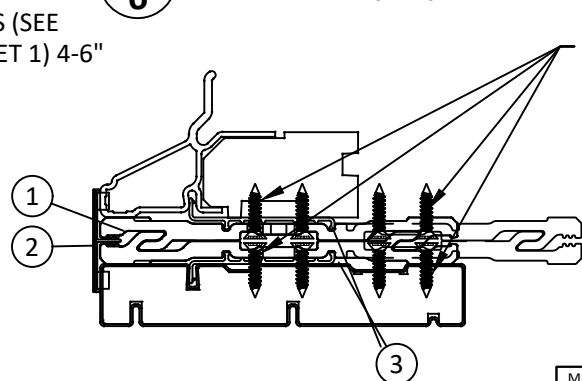
- G**
6
PSGD TO ATV
VERTICAL MULL
- H**
6
NLGD TO ATV
VERTICAL MULL
- I**
6
FWG TO ATV
VERTICAL MULL



#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"	II
6-9/16"	V

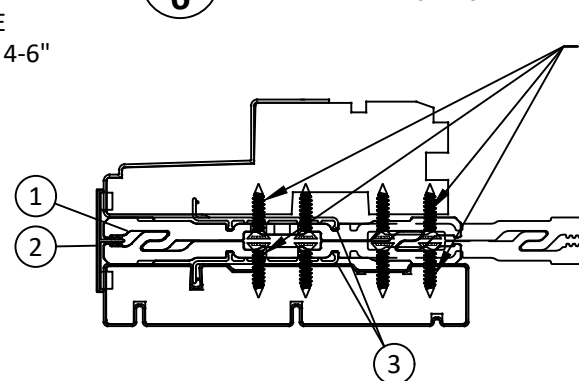
- J**
6
FWG SDLT TO FWSLD/FWTD/FWTD
HORIZONTAL MULL
- K**
6
PSGD TO FWT
HORIZONTAL MULL
- L**
6
NLGD TO FWT
HORIZONTAL MULL



#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

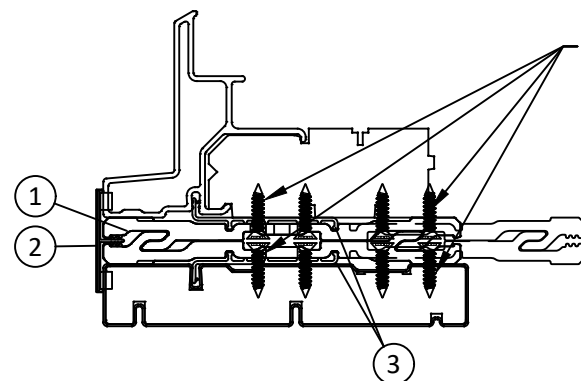
- M**
6
PSGD TO FLEXI
HORIZONTAL MULL
- N**
6
NLGD TO FLEXI
HORIZONTAL MULL
- O**
6
FWG TO FLEXI
HORIZONTAL MULL



#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"	I
6-9/16"	IV

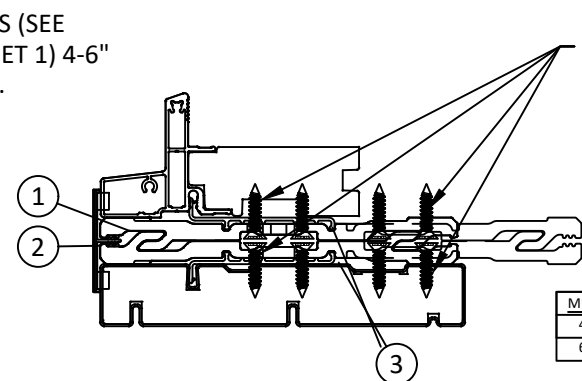
- P**
6
PSGD TO PSA
HORIZONTAL MULL
- Q**
6
NLGD TO PSA
HORIZONTAL MULL
- R**
6
FWG TO PSA
HORIZONTAL MULL



#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

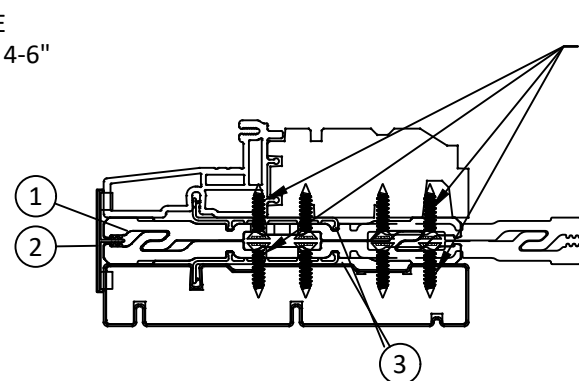
- S**
6
PSGD TO FW
HORIZONTAL MULL
- T**
6
NLGD TO FW
HORIZONTAL MULL
- U**
6
FWG TO FW
HORIZONTAL MULL



#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

- V**
6
PSGD TO FW
HORIZONTAL MULL
- W**
6
NLGD TO FW
HORIZONTAL MULL
- X**
6
FWG TO FW
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

- Y**
6
PSGD TO ATV
HORIZONTAL MULL
- Z**
6
NLGD TO ATV
HORIZONTAL MULL
- AA**
6
FWG TO ATV
HORIZONTAL MULL



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
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TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

MULLION ASSEMBLY SECTIONS (5)

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

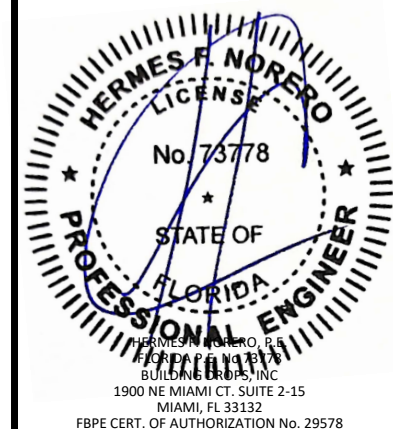
PH: (954) 399-8478
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WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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FL #:

FL15922

DATE: **10.16.19**

DWG. BY:
HR

CHK. BY:
HFN

SCALE: **NTS**

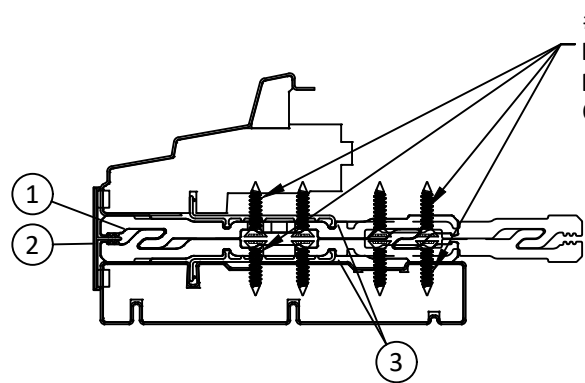
DWG. #: **AWD249**

SHEET:

6

OF 27

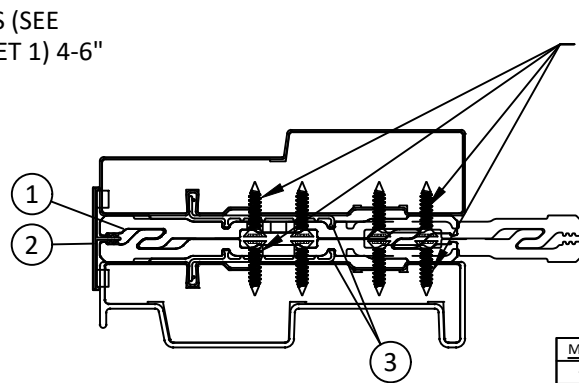
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#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1) 4-6"
FROM END & 8" MAX.
O.C. THEREAFTER.

MULL TYPE	GROUP NO.
4-9/16"	I
6-9/16"	IV

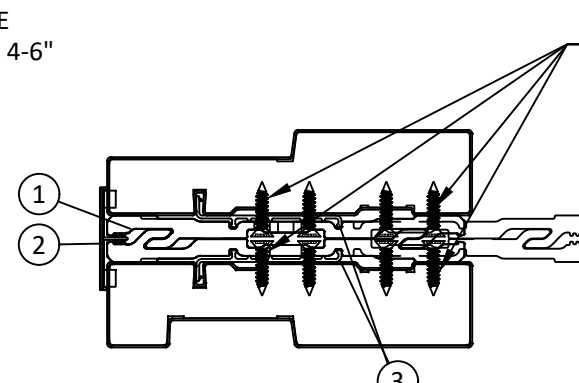
- A**
7 **PSGD TO ELLIPTICAL**
HORIZONTAL MULL
- B**
7 **NLGD TO ELLIPTICAL**
HORIZONTAL MULL
- C**
7 **FWG TO ELLIPTICAL**
HORIZONTAL MULL



#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

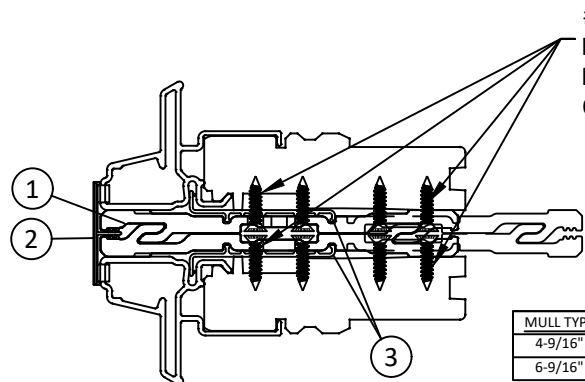
- D**
7 **PSGD TO PSGD SDLT**
VERTICAL MULL
- E**
7 **NLGD TO NLGD SDLT**
VERTICAL MULL
- F**
7 **FWG TO FWG SDLT**
VERTICAL MULL



#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"	II
6-9/16"	V

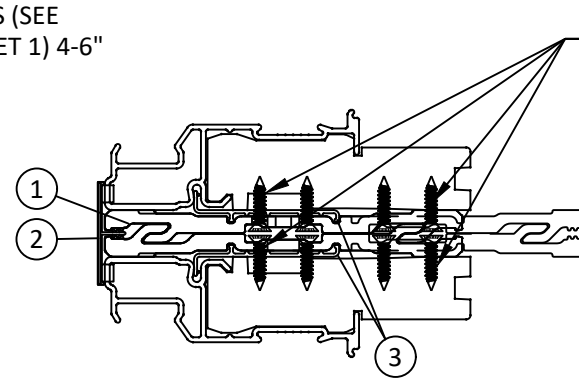
- G**
7 **PSGD TO PSGD SDLT**
VERTICAL MULL
- H**
7 **NLGD TO NLGD SDLT**
VERTICAL MULL
- I**
7 **FWG TO FWG SDLT**
VERTICAL MULL



#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"	II
6-9/16"	V

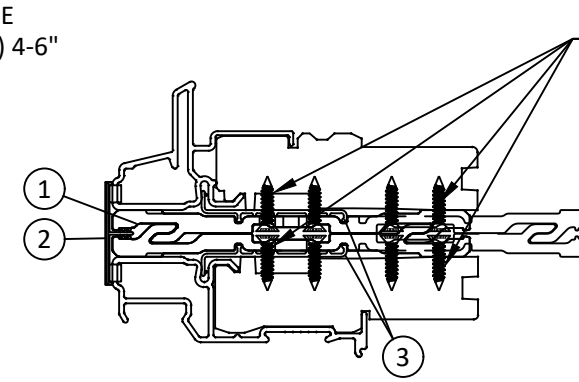
- J**
7 **FWSL TO FWSLD/FWTD/FWTDs**
VERTICAL OR HORIZONTAL MULL
- K**
7 **FWT TO FWSLD/FWTD/FWTDs**
VERTICAL OR HORIZONTAL MULL



#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

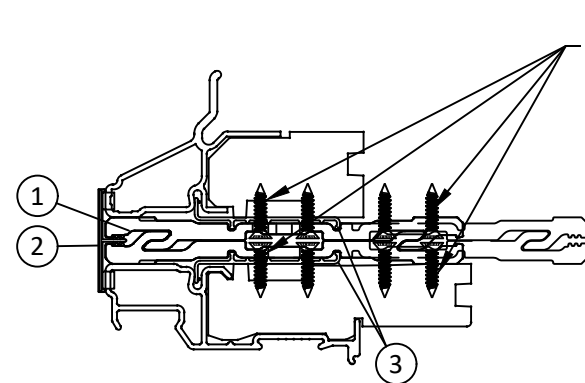
- L**
7 **FWH TO FWH**
VERTICAL MULL



#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"	II
6-9/16"	V

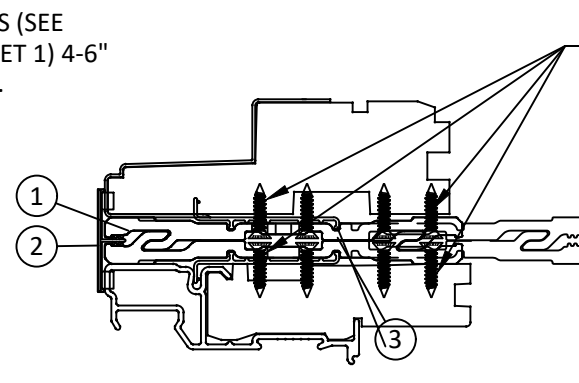
- M**
7 **FWH TO FWT**
VERTICAL OR HORIZONTAL MULL
- N**
7 **FWH TO FWSL**
VERTICAL OR HORIZONTAL MULL



#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

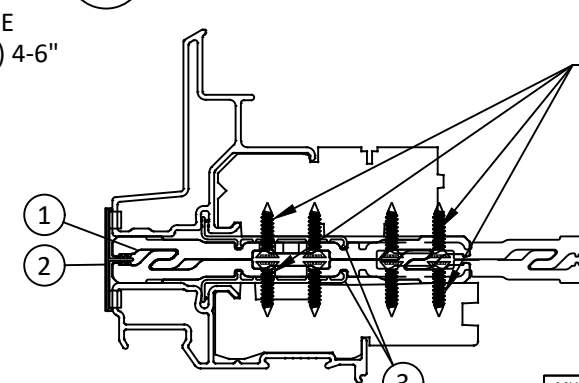
- O**
7 **FWH TO FLEXI**
VERTICAL OR HORIZONTAL MULL



#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

- P**
7 **FWH TO PSA**
VERTICAL OR HORIZONTAL MULL
- Q**
7 **FWH TO PSC**
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

- R**
7 **FWH TO FW**
VERTICAL OR HORIZONTAL MULL



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

MULLION ASSEMBLY SECTIONS (6)

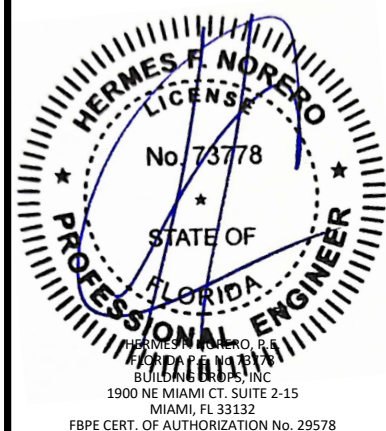
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
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REMARKS	BY	DATE
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2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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FL #:

FL15922

DATE: **10.16.19**

DWG. BY:
HR

CHK. BY:
HFN

SCALE: **NTS**

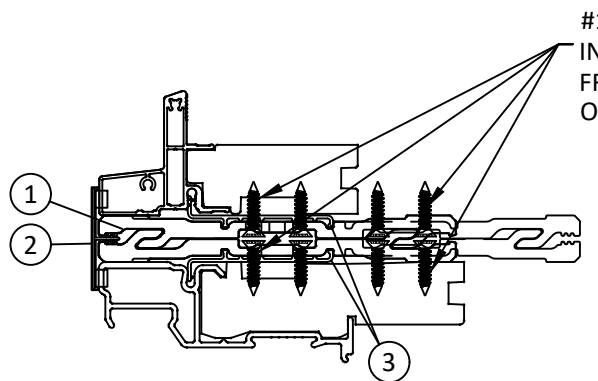
DWG. #: **AWD249**

SHEET:

7

OF 27

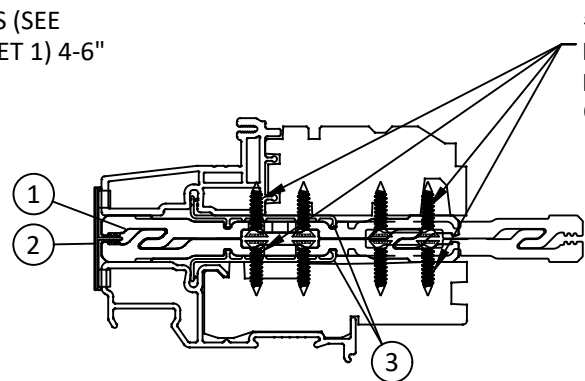
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#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1) 4-6"
FROM END & 8" MAX.
O.C. THEREAFTER.

A
8
FWH TO FW
VERTICAL OR HORIZONTAL MULL

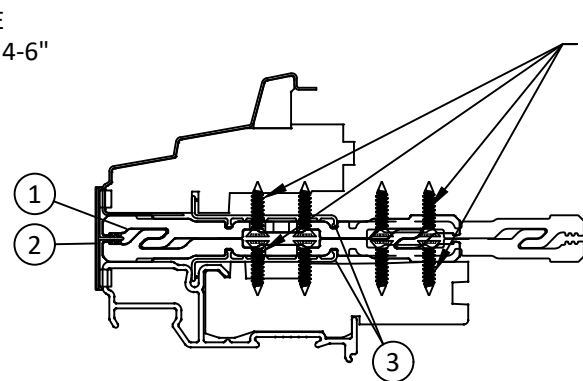
MULL TYPE	GROUP NO.
4-9/16"	II
6-9/16"	V



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

B
8
FWH TO ATV
VERTICAL OR HORIZONTAL MULL

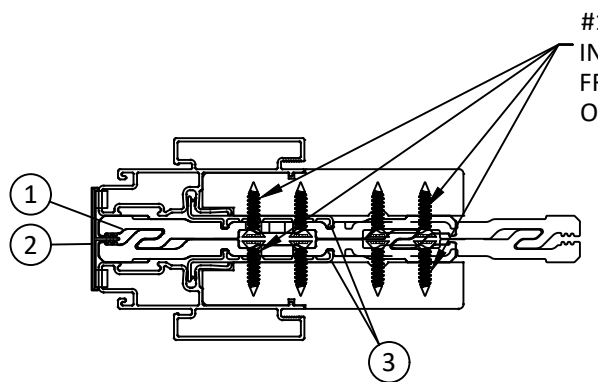
MULL TYPE	GROUP NO.
4-9/16"	II
6-9/16"	V



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

C
8
FWH TO ELLIPTICAL
HORIZONTAL MULL

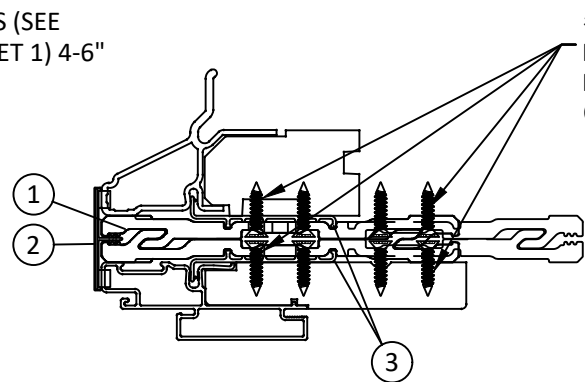
MULL TYPE	GROUP NO.
4-9/16"	II
6-9/16"	V



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

D
8
ISPD 4 9/16 TO ISPD 4 9/16
VERTICAL MULL

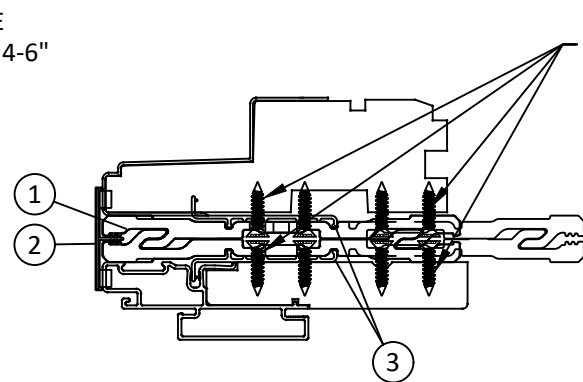
MULL TYPE	GROUP NO.
4-9/16"	III
6-9/16"	VI



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

E
8
ISPD 4 9/16 TO ISPD STAT 4 9/16
VERTICAL MULL

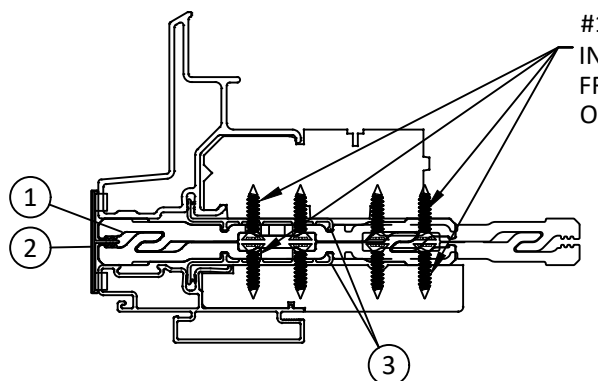
MULL TYPE	GROUP NO.
4-9/16"	II
6-9/16"	V



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

F
8
ISPD 4 9/16 TO FLEXI
VERTICAL OR HORIZONTAL MULL

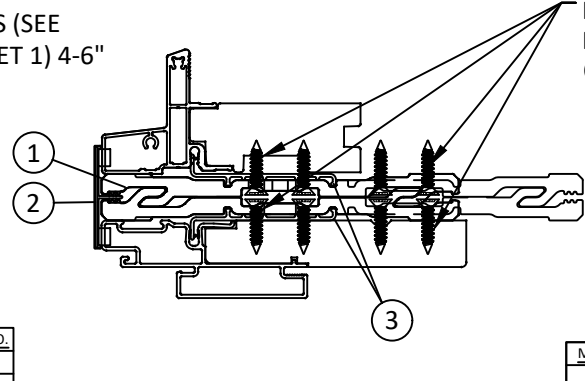
MULL TYPE	GROUP NO.
4-9/16"	II
6-9/16"	V



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

G
8
ISPD 4 9/16 TO PSA
VERTICAL OR HORIZONTAL MULL

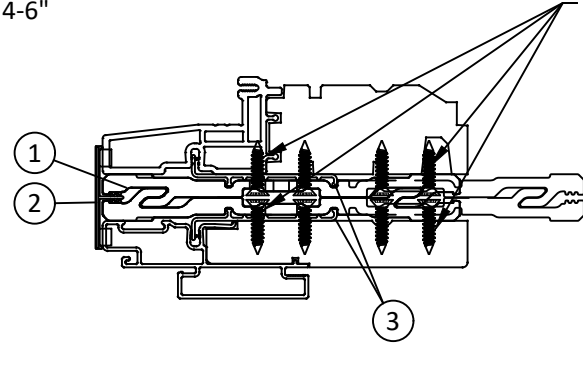
MULL TYPE	GROUP NO.
4-9/16"	II
6-9/16"	V



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

H
8
ISPD 4 9/16 TO PSC
VERTICAL OR HORIZONTAL MULL

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



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

I
8
ISPD 4 9/16 TO PSC
VERTICAL OR HORIZONTAL MULL

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

J
8
ISPD 4 9/16 TO FW
VERTICAL OR HORIZONTAL MULL

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

J
8
ISPD 4 9/16 TO FW
VERTICAL OR HORIZONTAL MULL

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

K
8
ISPD 4 9/16 TO FW
VERTICAL OR HORIZONTAL MULL

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

K
8
ISPD 4 9/16 TO ATV
VERTICAL OR HORIZONTAL MULL

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



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

MULLION ASSEMBLY SECTIONS (7)

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

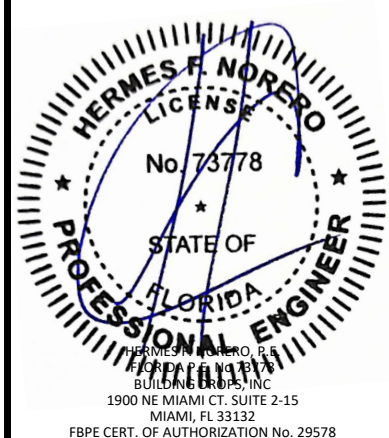
PH: (954) 399-8478
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:
FL15922

DATE: **10.16.19**

DWG. BY:
HR

CHK. BY:
HFN

SCALE: **NTS**

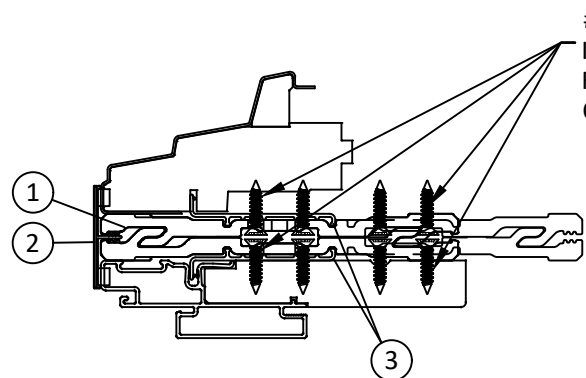
DWG. #: **AWD249**

SHEET:

8

OF 27

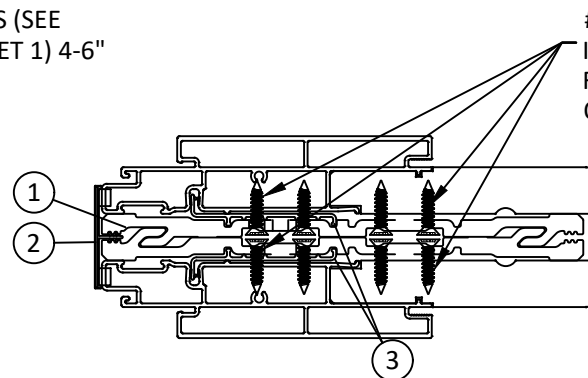
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#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1) 4-6"
FROM END & 8" MAX.
O.C. THEREAFTER.

MULL TYPE	GROUP NO.
4-9/16"	I
6-9/16"	1V

A
9 ISPD 4 9/16 TO ELLIPTICAL
HORIZONTAL MULL

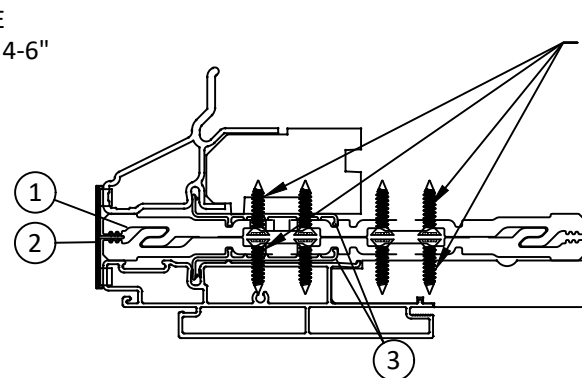


#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1) 4-6"
FROM END & 8" MAX.
O.C. THEREAFTER.

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

B
9 ISPD 6 9/16 TO ISPD 6 9/16
VERTICAL MULL

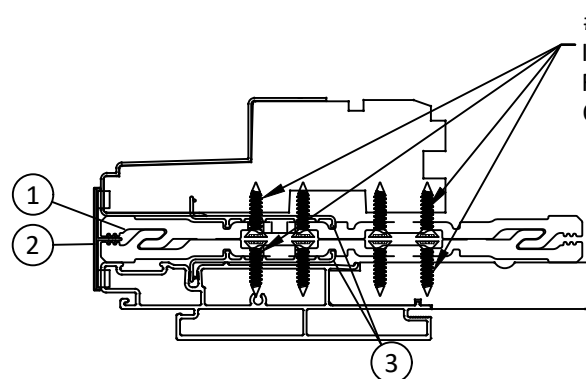
C
9 ISPD 6 9/16 TO ISPD STAT 6 9/16
VERTICAL MULL



#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.
6-9/16"	V

D
9 ISPD 6 9/16 TO FLEXI
VERTICAL OR HORIZONTAL MULL

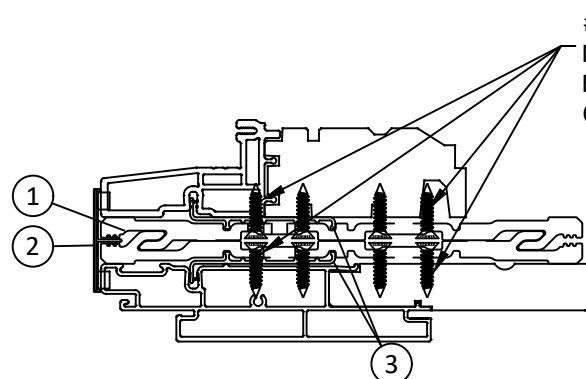


#10 x 7/8" FH SCREWS (SEE
INSTALL. NOTE 8, SHEET 1) 4-6"
FROM END & 8" MAX.
O.C. THEREAFTER.

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

E
9 ISPD 6 9/16 TO PSA
VERTICAL OR HORIZONTAL MULL

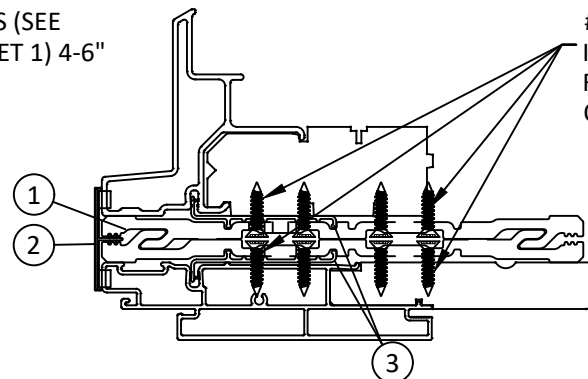
F
9 ISPD 6 9/16 TO PSC
VERTICAL OR HORIZONTAL MULL



#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.
6-9/16"	V

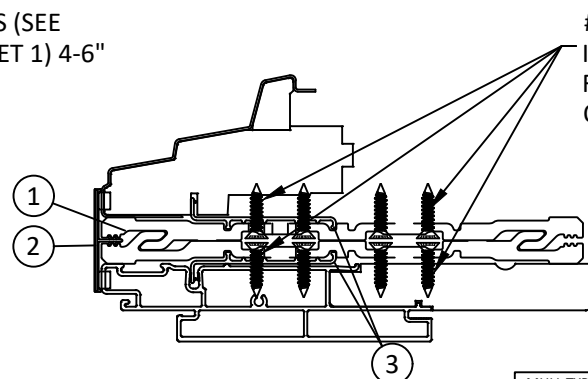
I
9 ISPD 6 9/16 TO ATV
VERTICAL OR HORIZONTAL MULL



#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.
6-9/16"	V

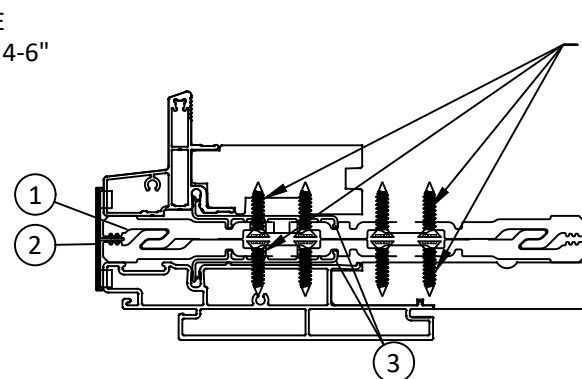
G
9 ISPD 6 9/16 TO FW
VERTICAL OR HORIZONTAL MULL



#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.
6-9/16"	IV

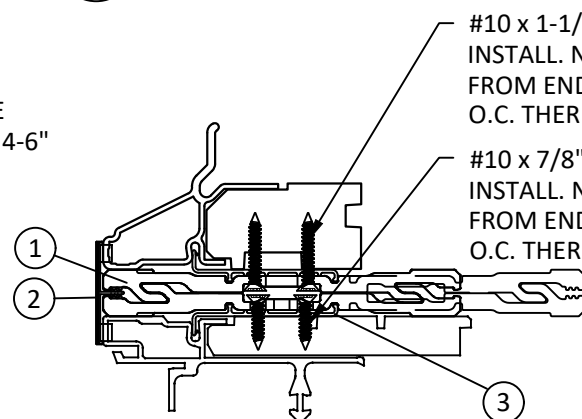
J
9 ISPD 6 9/16 TO ELLIPTICAL
HORIZONTAL MULL



#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.
6-9/16"	V

H
9 ISPD 6 9/16 TO FW
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

K
9 FLEXI TO FWGD
VERTICAL OR HORIZONTAL MULL



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

MULLION ASSEMBLY SECTIONS (8)

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

PH: (954) 399-8478

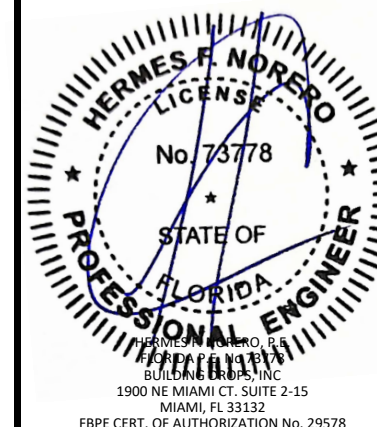
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #: **FL15922**

DATE: **10.16.19**

DWG. BY: **HR** CHK. BY: **HFN**

SCALE: **NTS**

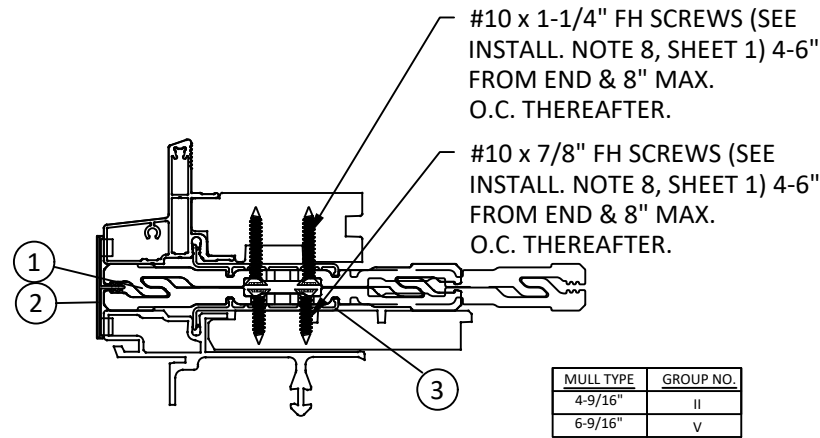
DWG. #: **AWD249**

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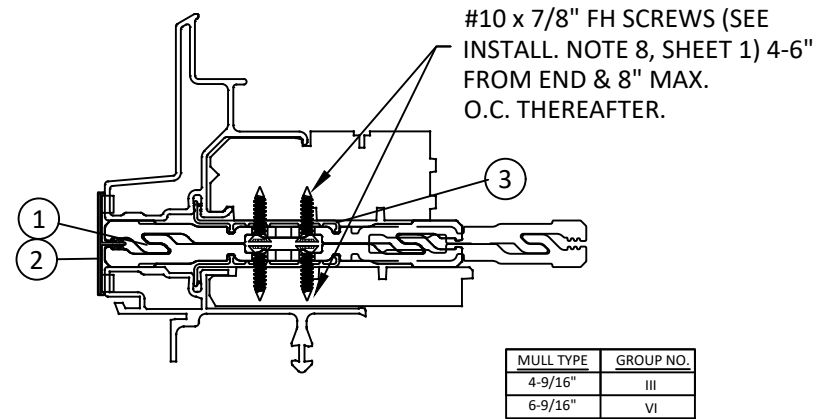
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OF 27

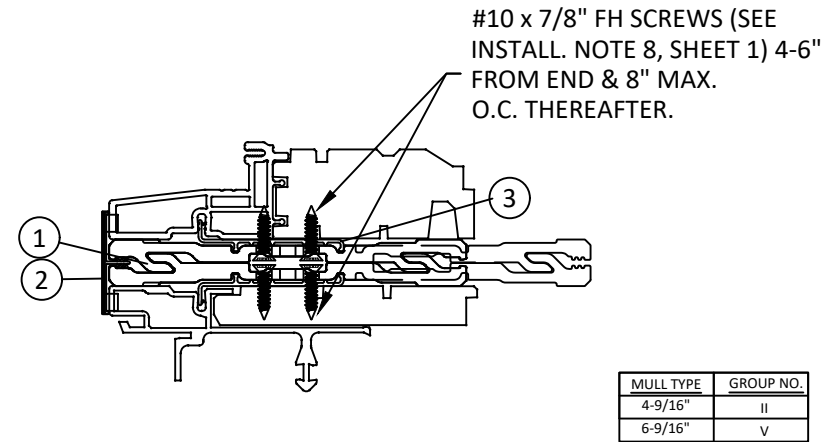
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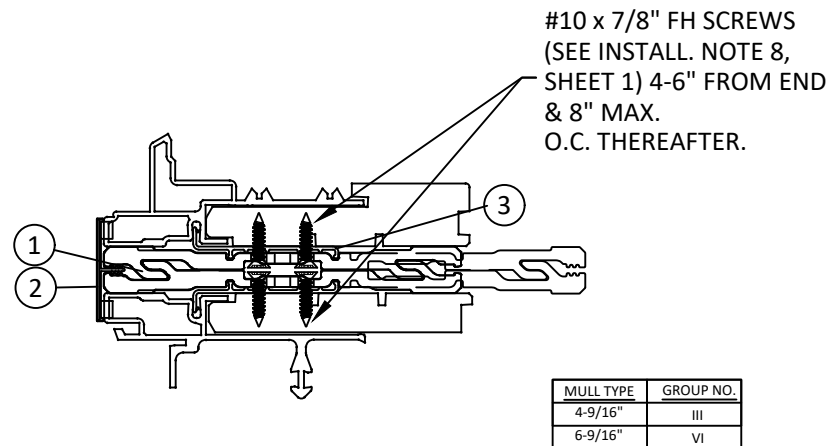
A
10 FW TO FWGD
VERTICAL OR HORIZONTAL MULL



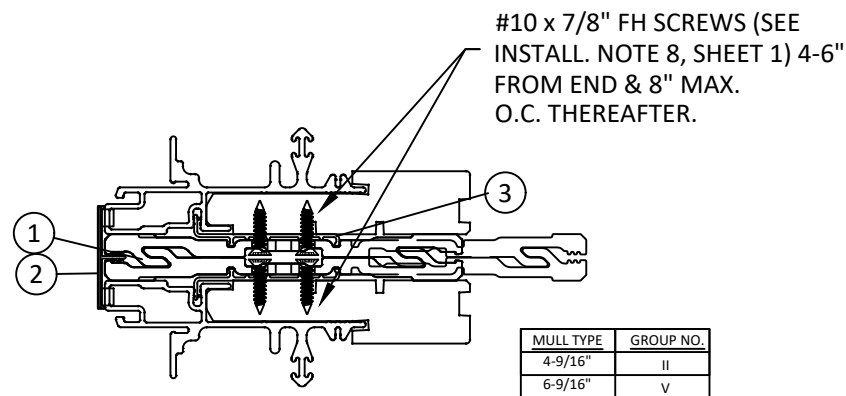
B
10 ATF TO FWGD
VERTICAL OR HORIZONTAL MULL



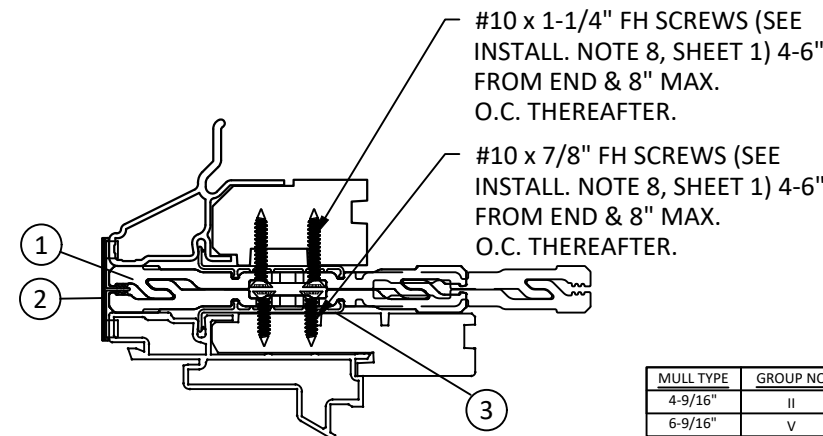
C
10 ATV TO FWGD
VERTICAL OR HORIZONTAL MULL



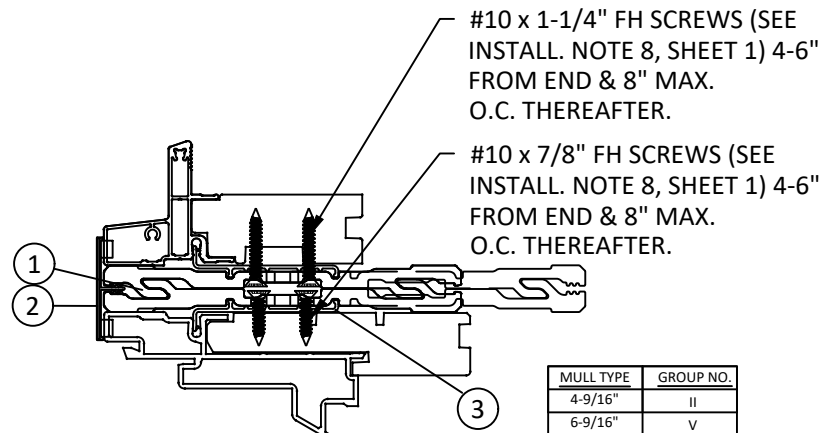
D
10 FWSLD/FWTD/FWTDs TO FWGD
VERTICAL OR HORIZONTAL MULL



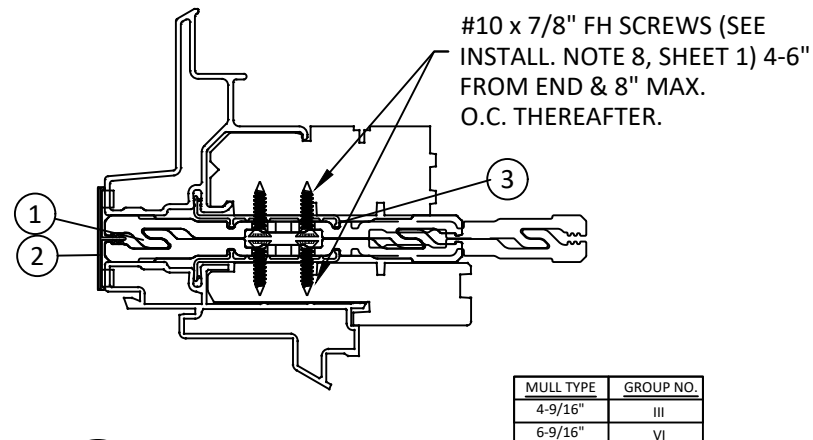
E
10 FWGD TO FWGD
VERTICAL MULL



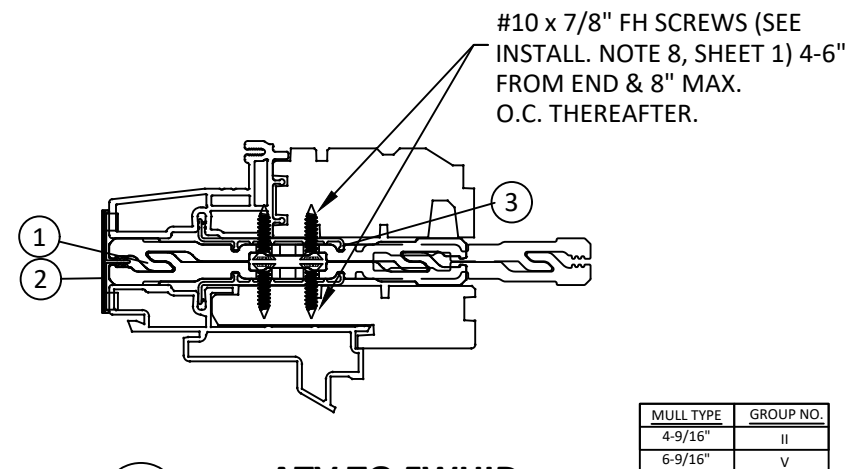
F
10 FLEXI TO FWHID
VERTICAL OR HORIZONTAL MULL



G
10 FW TO FWHID
VERTICAL OR HORIZONTAL MULL



H
10 ATF TO FWHID
VERTICAL OR HORIZONTAL MULL



I
10 ATV TO FWHID
VERTICAL OR HORIZONTAL MULL



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

MULLION ASSEMBLY SECTIONS (9)

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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FL #: FL15922

DATE: 10.16.19

DWG. BY: HR
CHK. BY: HFN

SCALE: NTS

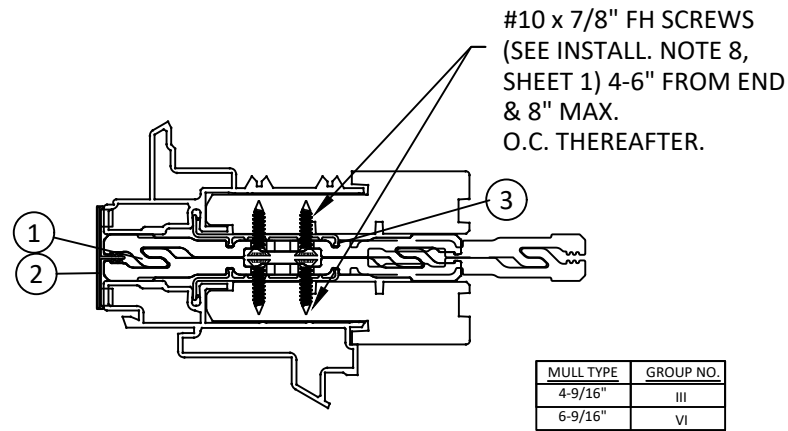
DWG. #: AWD249

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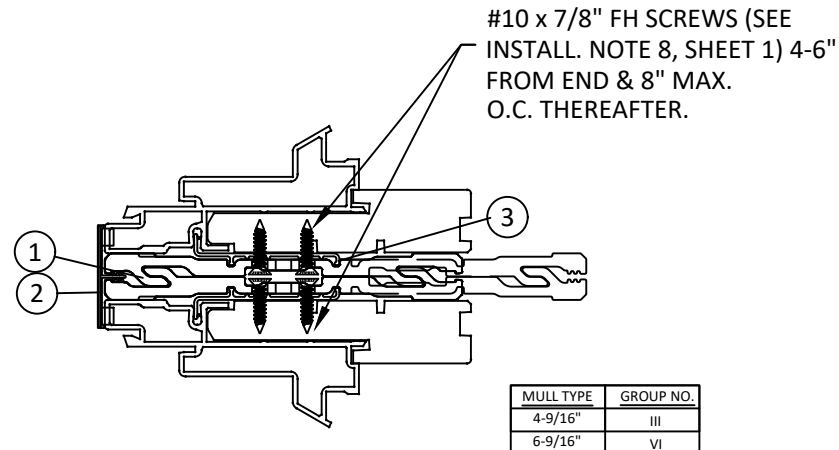
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OF 27

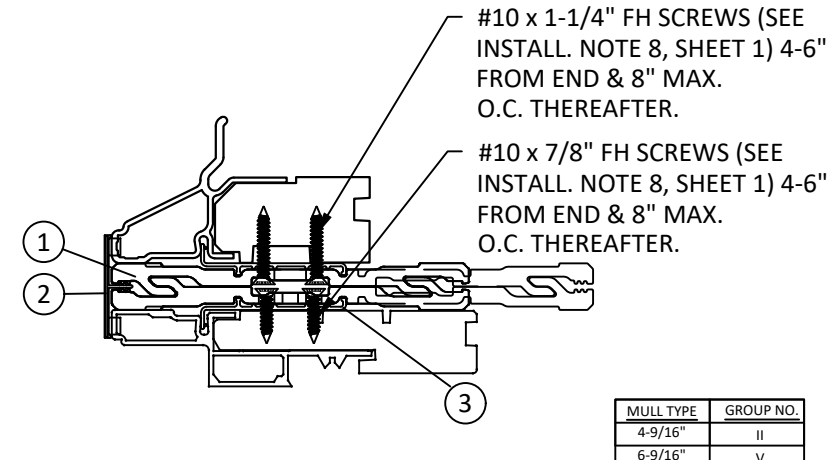
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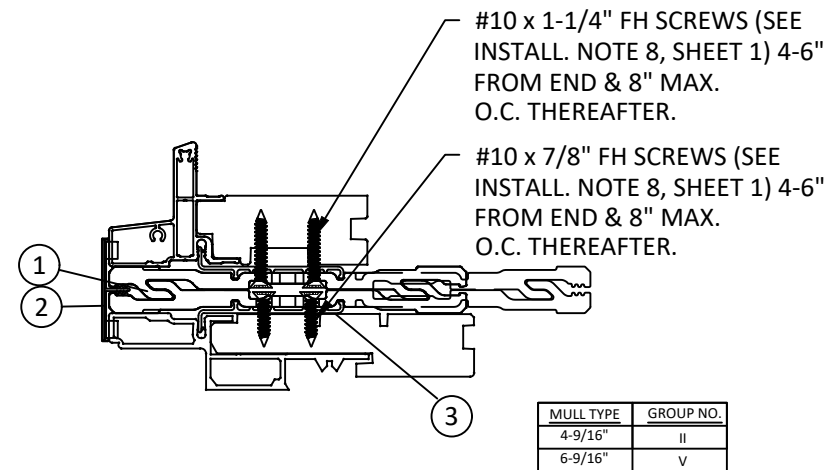
A
11 FWSLD/FWTD/FWTDS TO FWHID
VERTICAL OR HORIZONTAL MULL



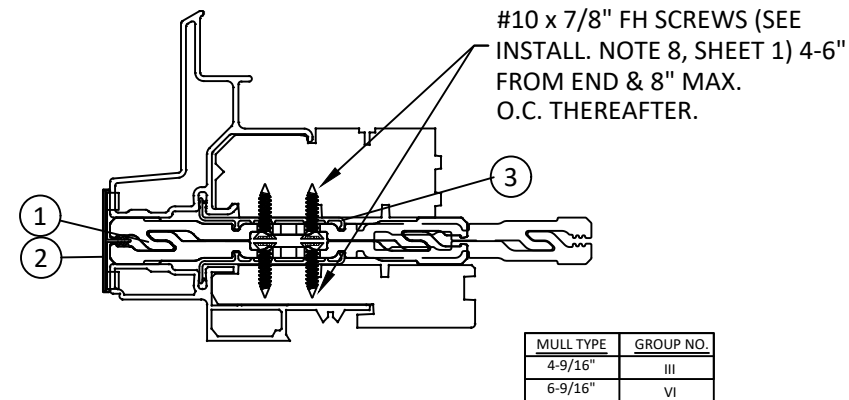
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11 FWHID TO FWHID
VERTICAL MULL



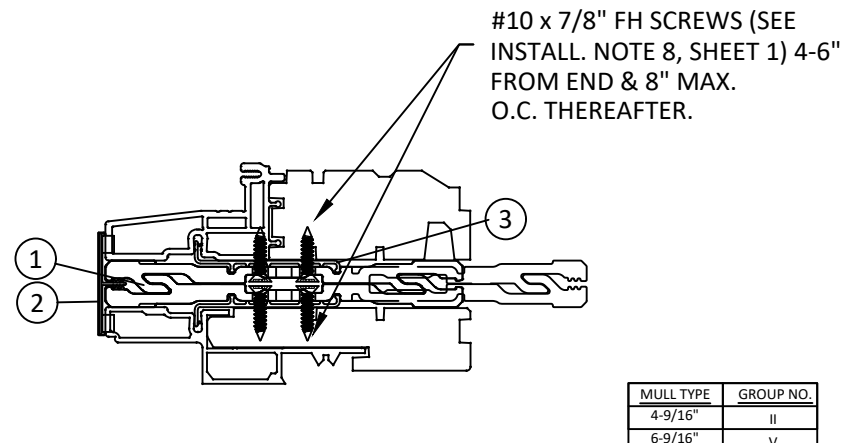
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11 FLEXI TO FWOD
VERTICAL OR HORIZONTAL MULL



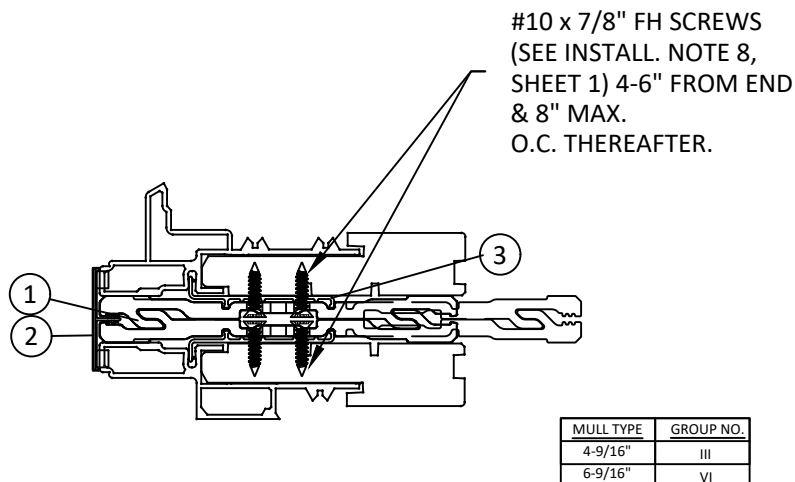
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11 FW TO FWOD
VERTICAL OR HORIZONTAL MULL



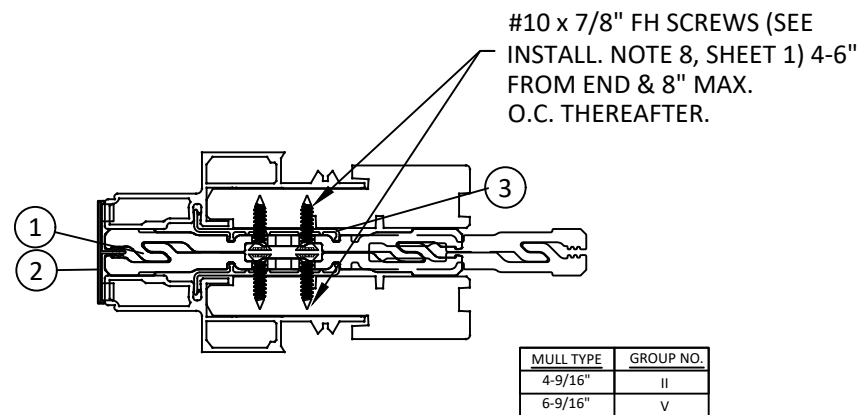
E
11 ATF TO FWOD
VERTICAL OR HORIZONTAL MULL



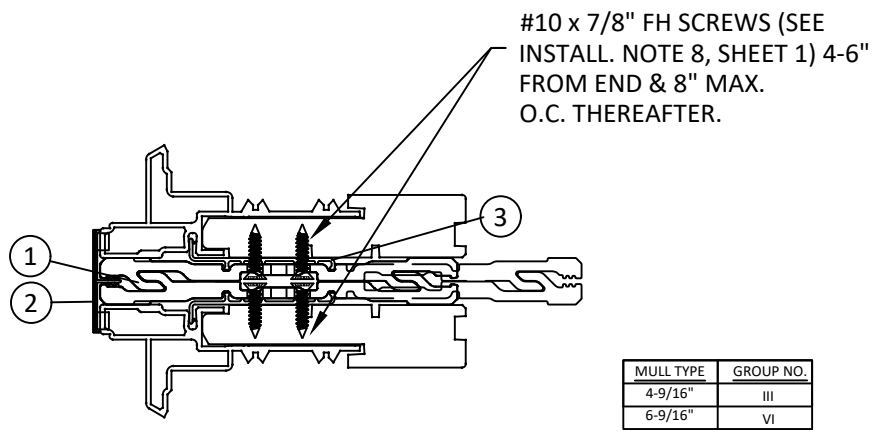
F
11 ATV TO FWOD
VERTICAL OR HORIZONTAL MULL



G
11 FWSLD/FWTD/FWTDS TO FWOD
VERTICAL OR HORIZONTAL MULL



H
11 FWOD TO FWOD
VERTICAL MULL



I
11 FWSLD/FWTD/FWTDS TO FWSLD/FWTD/FWTDS
VERTICAL OR HORIZONTAL MULL



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

MULLION ASSEMBLY SECTIONS (10)

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
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2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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FL #: FL15922

DATE: 10.16.19

DWG. BY: HR
CHK. BY: HFN

SCALE: NTS

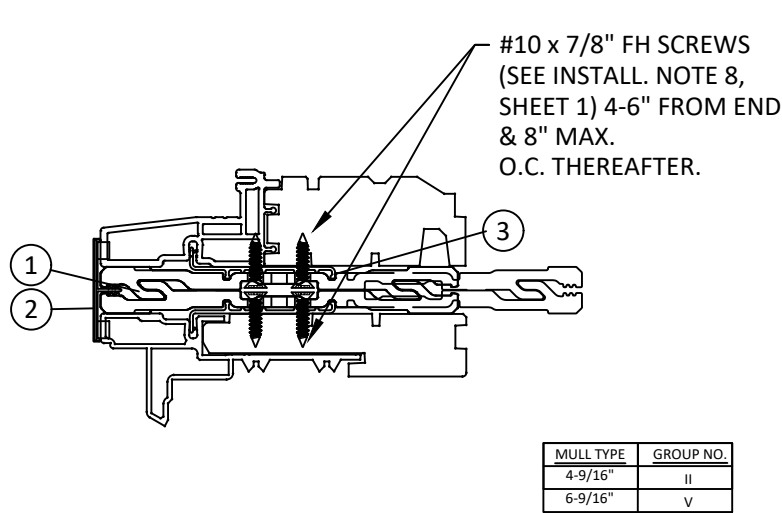
DWG. #: AWD249

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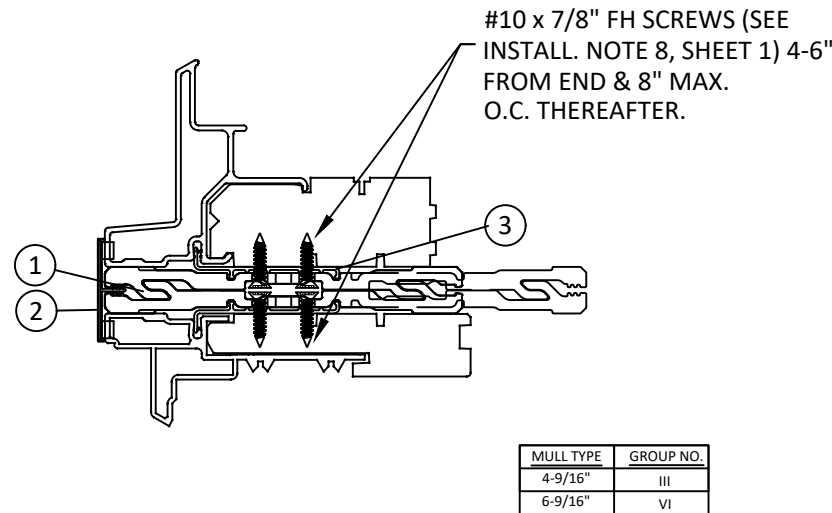
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OF 27

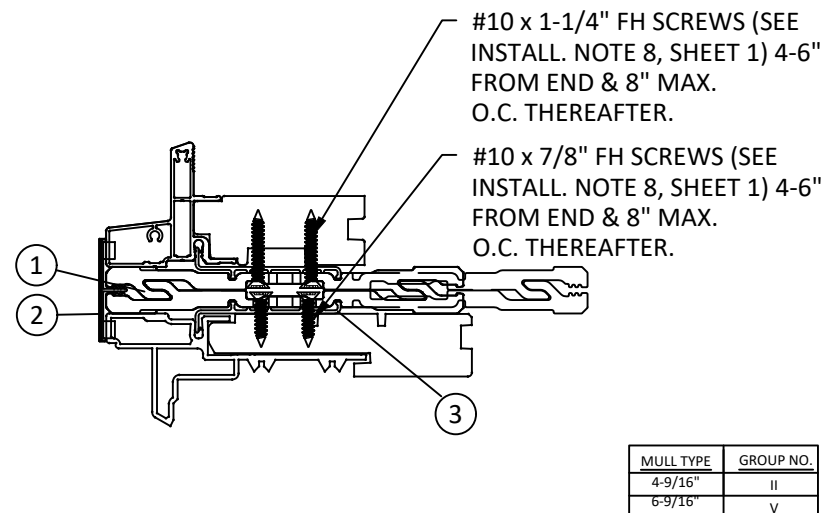
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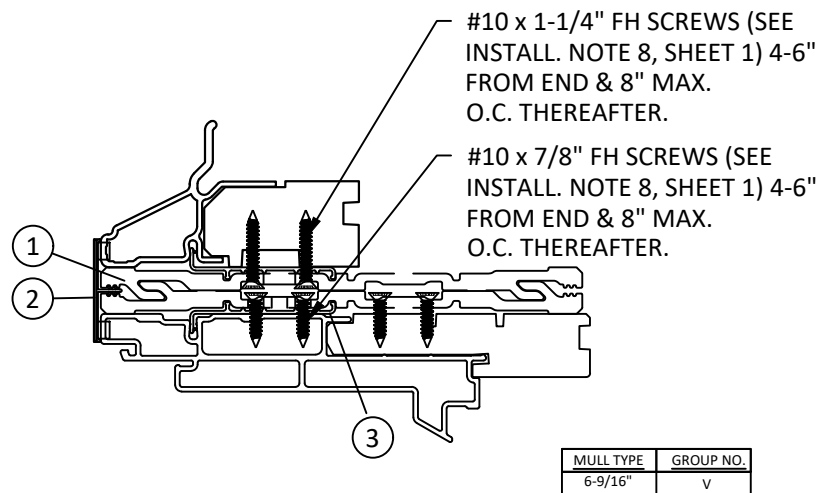
A
12 **ATV TO FWSLD/FWTD/FWTDs**
VERTICAL OR HORIZONTAL MULL



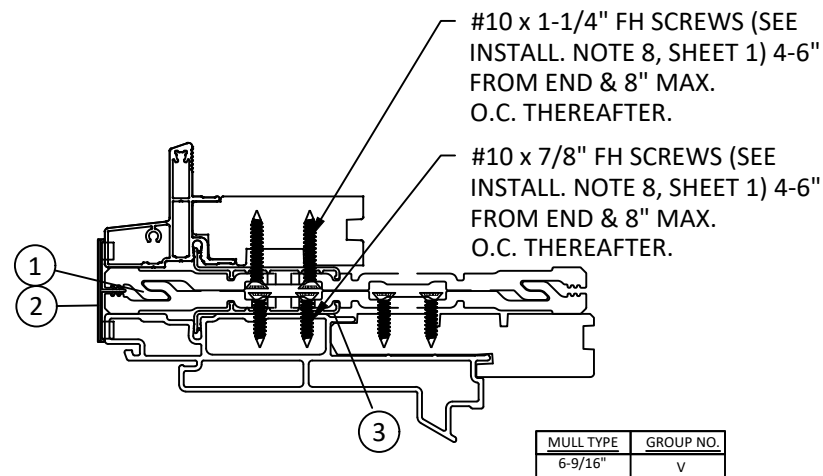
B
12 **ATF TO FWSLD/FWTD/FWTDs**
VERTICAL OR HORIZONTAL MULL



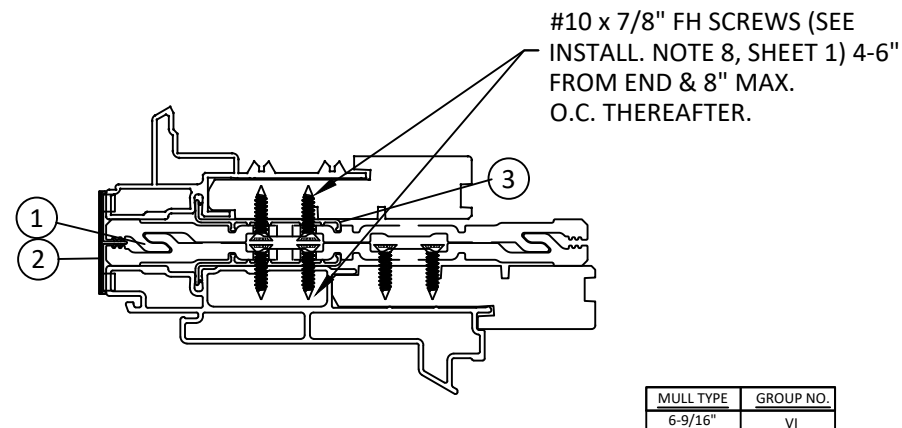
C
12 **FW TO FWSLD/FWTD/FWTDs**
VERTICAL OR HORIZONTAL MULL



D
12 **FLEXI TO FWHID**
HORIZONTAL OR VERTICAL MULL



E
12 **FW TO FWHID**
HORIZONTAL OR VERTICAL MULL



F
12 **ATF TO FWHID**
HORIZONTAL OR VERTICAL MULL



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)/(IMPACT)

MULLION ASSEMBLY SECTIONS (11)

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

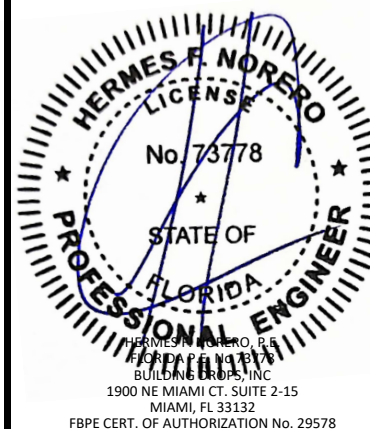
PH: (954) 399-8478
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WEB: www.buildingdrops.com



REMARKS	BY	DATE
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2023 CODE CHANGE	MS	10/19/23
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FL #:

FL15922

DATE: **10.16.19**

DWG. BY:
HR

CHK. BY:
HFN

SCALE: **NTS**

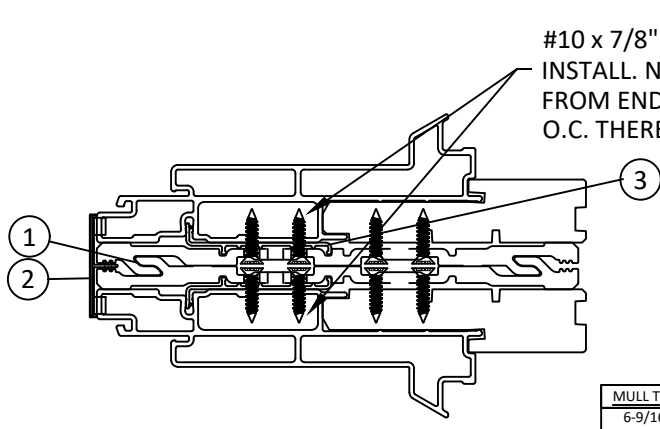
DWG. #: **AWD249**

SHEET:

12

OF 27

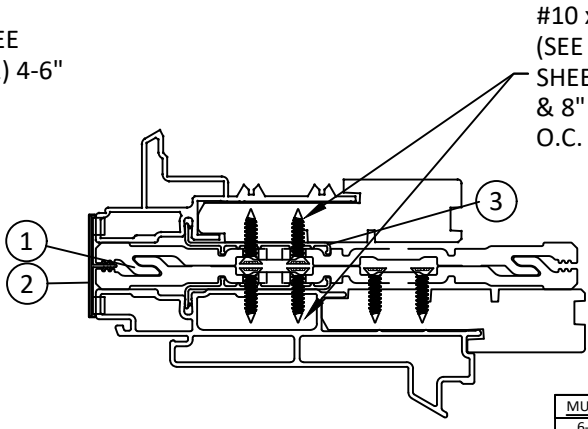
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12/21/2023 3:24 PM
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12/21/2023 3:24 PM



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

A
13

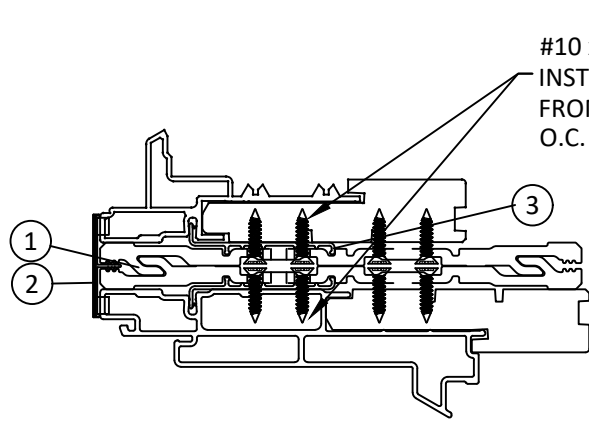
FWHID TO FWHID
VERTICAL MULL



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

B
13

ATV TO FWHID
VERTICAL OR HORIZONTAL MULL



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

C
13

FWSLD/FWTD/FWTDS TO FWHID
VERTICAL MULL

MULLION	COMBINED MOMENT OF INERTIA, 'I' IN^4	SECTION MODULUS 'Sx' IN^3
5.7500	8.6900	4.69
7.7500	16.4000	6.57

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
FWH =	400 Series Inswing Patio Door
FWTDS =	A Series Transom Door
FWSLD =	A Series Sidelite Door
FWTD =	A Series Transom Door
ISPD =	200 Series Inswing Patio Door

PRODUCT ABBREVIATION KEY	
ABBREVIATION	PRODUCT NAME
FWSLD =	A Series Sidelite Door
FWSLTD =	A Series Sidelite/Transom Door
FWSLTDS =	A Series Sidelite/Transom Door
PSGD =	Perma-Shield Gliding Door
NLGD =	Narroline Gliding Door
FWG =	400 Series Frenchwood Glider
FWSL =	A Series Sidelite
PSC =	400 Series Casement
FWSLT =	400 Series Sidelite Transom
FWT =	400 Series Transom
PSA =	400 Series Awning
ELLIPTICAL =	Elliptical
PSGD SDLT =	Permasheidl Gliding Door / Sidelite Door
NLGD SDLT =	Narrowline Gliding Door / Sidelite Door
FWG SDLT =	Frenchwood Glider/Sidelite



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

MULLION ASSEMBLY SECTIONS (12)

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

PH: (954) 399-8478

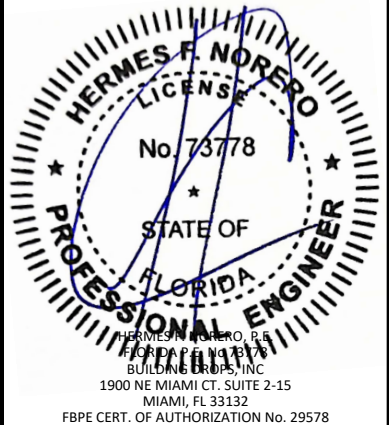
FAX: (954) 744-4738

WEB: www.buildingdrops.com



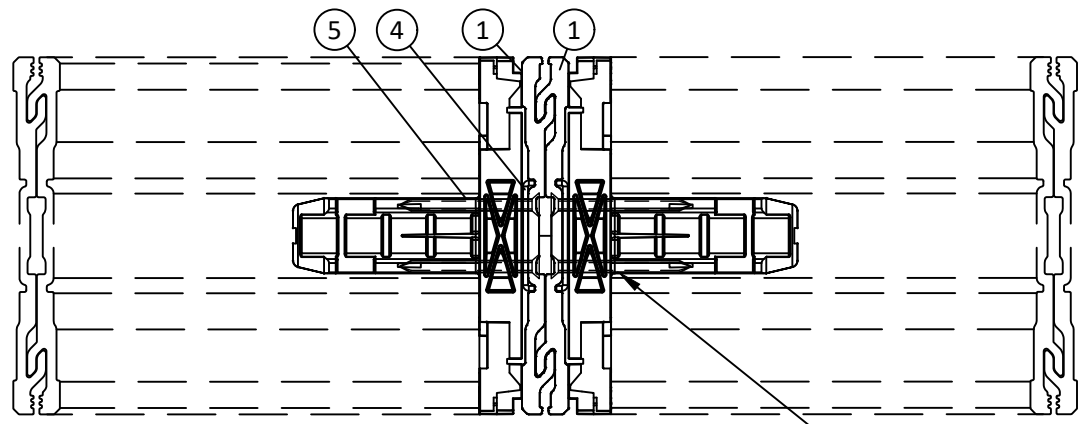
REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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



FL #:	FL15922
DATE:	10.16.19
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD249
SHEET:	13

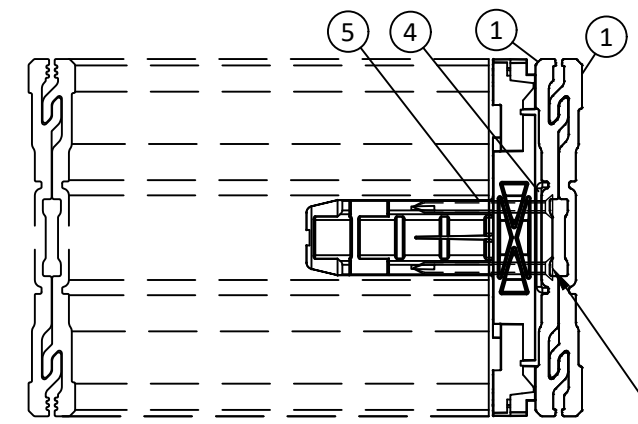
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A
14
HORIZONTAL SECTION
JOINING DETAIL
'X' MULLION JOINT

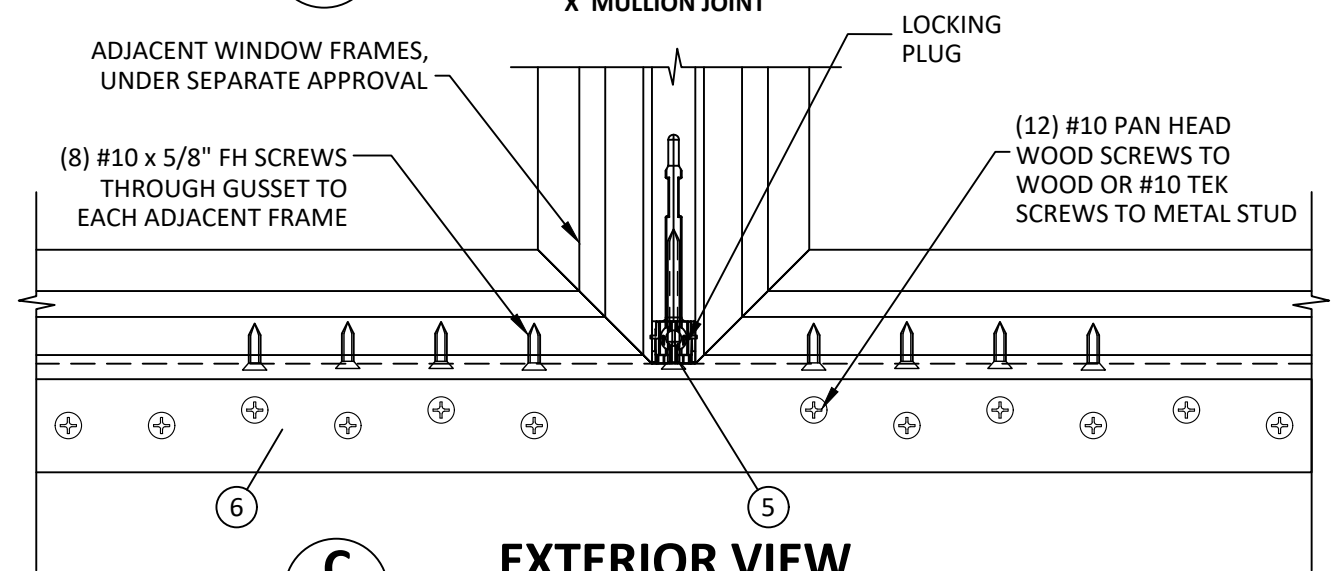
(2) #10 x 2" FH SCREWS THROUGH EA. INTERSECTION BRACKET INTO END PLUG

NOTE:
INSTALLATION DETAILS ARE APPLICABLE TO 4-9/16" AND 6-9/16" REINFORCED MULLION ASSEMBLIES.



B
14
HORIZONTAL SECTION
JOINING DETAIL
'T' MULLION JOINT

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



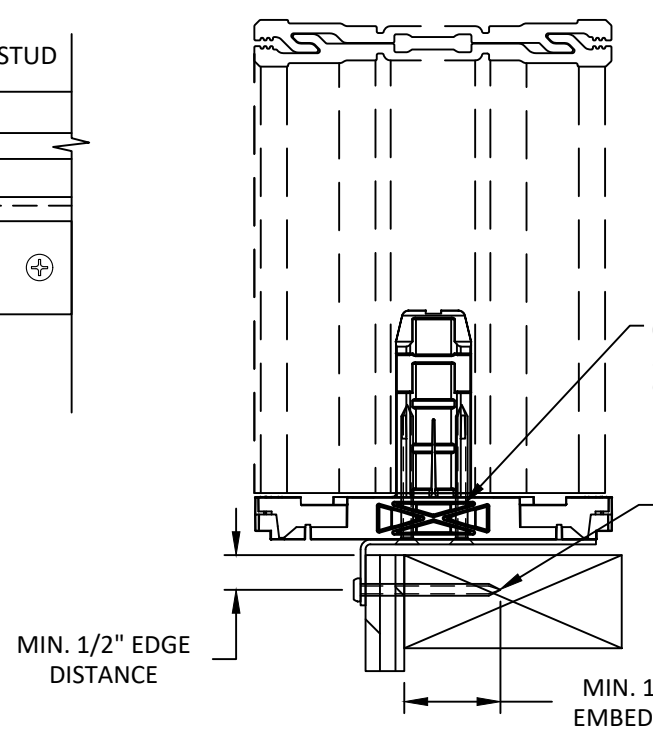
C
14
EXTERIOR VIEW
MULLION ANCHOR DETAIL
18" GUSSET INSTALLATION - TYP.

ADJACENT WINDOW FRAMES, UNDER SEPARATE APPROVAL

(8) #10 x 5/8" FH SCREWS THROUGH GUSSET TO EACH ADJACENT FRAME

LOCKING PLUG

(12) #10 PAN HEAD WOOD SCREWS TO WOOD OR #10 TEK SCREWS TO METAL STUD



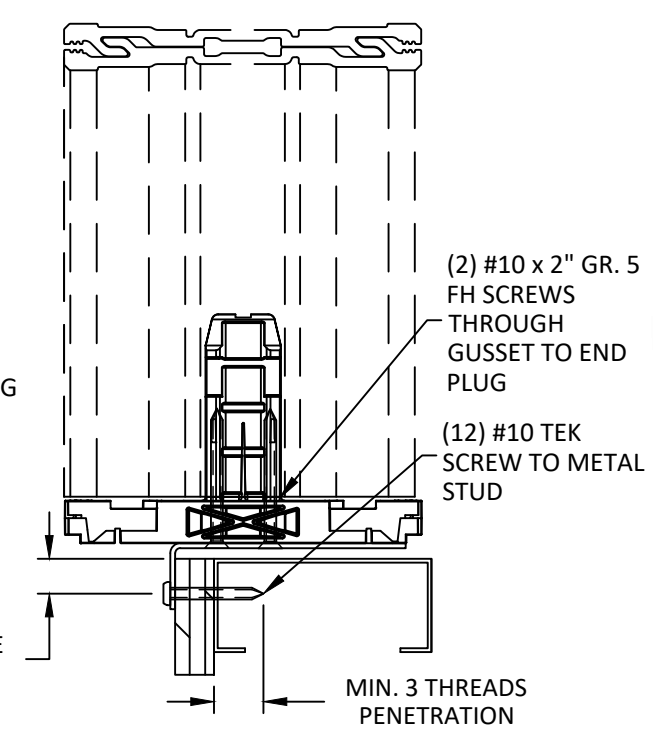
D
14
VERTICAL SECTION
MULLION ANCHOR DETAIL
GUSSET INSTALLATION - WOOD

(2) #10 x 2" GR. 5 FH SCREWS THROUGH GUSSET TO END PLUG

(12) #10 PAN HEAD WOOD SCREWS TO WOOD SUBSTRATE

MIN. 1/2" EDGE DISTANCE

MIN. 1-1/2" EMBEDMENT



E
14
VERTICAL SECTION
MULLION ANCHOR DETAIL
GUSSET INSTALLATION - METAL STUD

(2) #10 x 2" GR. 5 FH SCREWS THROUGH GUSSET TO END PLUG

(12) #10 TEK SCREW TO METAL STUD

MIN. 3 THREADS PENETRATION



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)/(IMPACT)

GUSSET INSTALLATION DETAILS

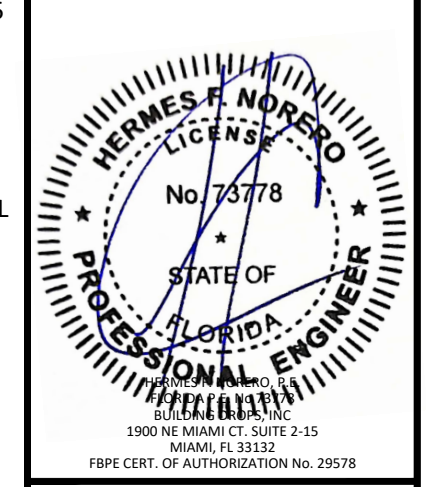
PREPARED BY:
BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



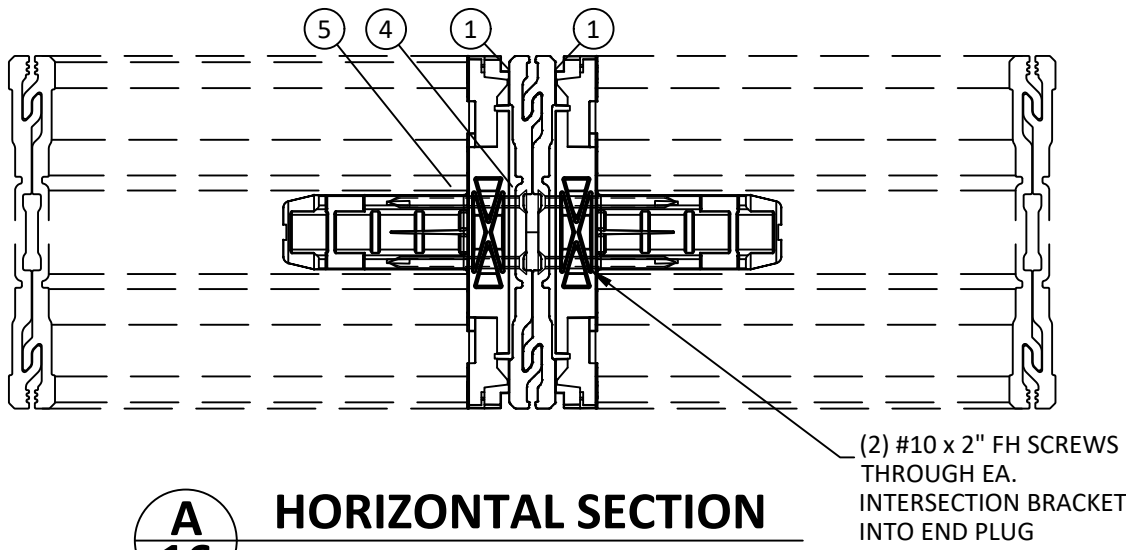
REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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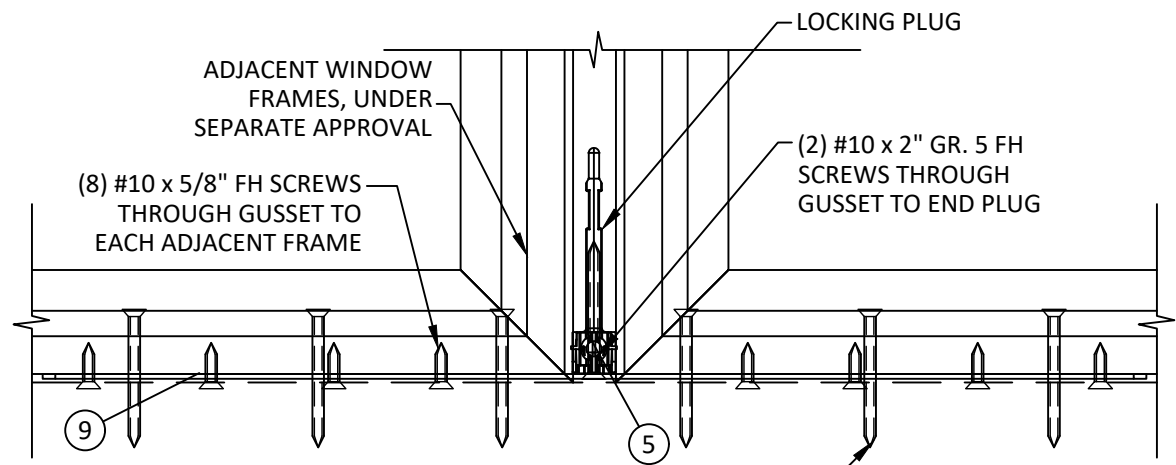


FL #:	FL15922
DATE:	10.16.19
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD249
SHEET:	14

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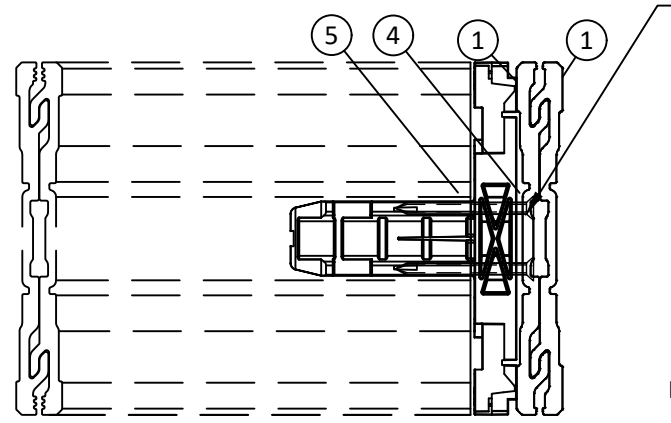
A
16
HORIZONTAL SECTION
JOINING DETAIL
'X' MULLION JOINT



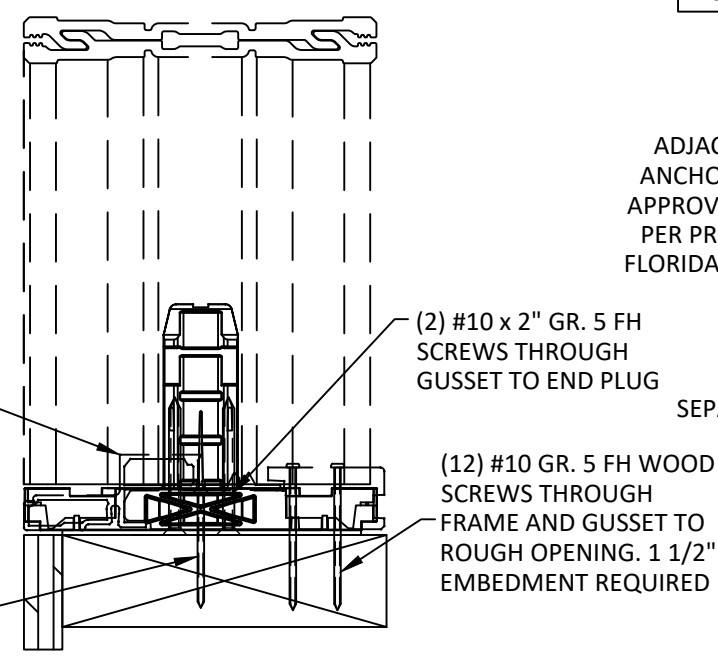
C
16
EXTERIOR VIEW
MULLION ANCHOR DETAIL
18" FLAT GUSSET INSTALLATION - TYP.

DOOR/WINDOW UNDER SEPARATE FLORIDA PRODUCT APPROVAL

ADJACENT DOOR/WINDOW ANCHORS, UNDER SEPARATE APPROVAL (LOCATION VARIES PER PRODUCT SEE SEPARATE FLORIDA PRODUCT APPROVAL)



B
16
HORIZONTAL SECTION
JOINING DETAIL
'T' MULLION JOINT



E
16
VERTICAL SECTION
MULLION ANCHOR DETAIL
FLAT GUSSET INSTALLATION - WOOD

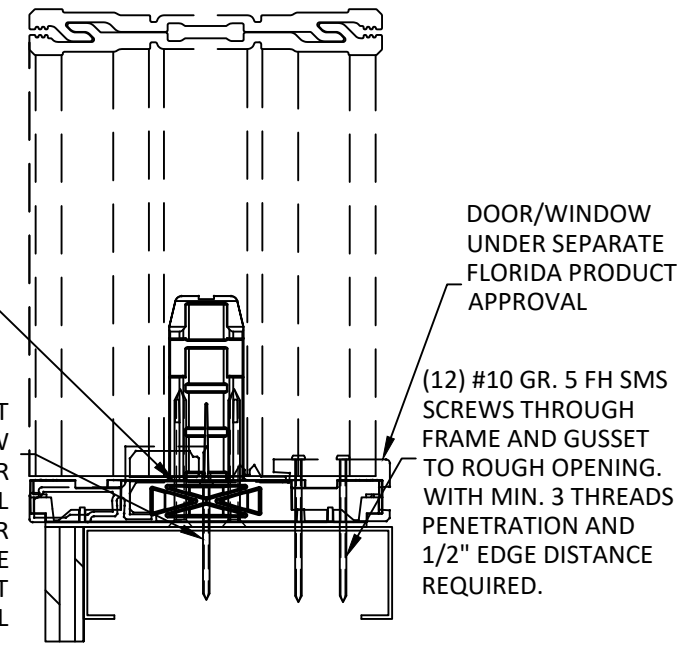
(2) #10 x 2" FH SCREWS THROUGH EA. INTERSECTION BRACKET INTO END PLUG

(2) #10 x 2" GR. 5 FH SCREWS THROUGH GUSSET TO END PLUG

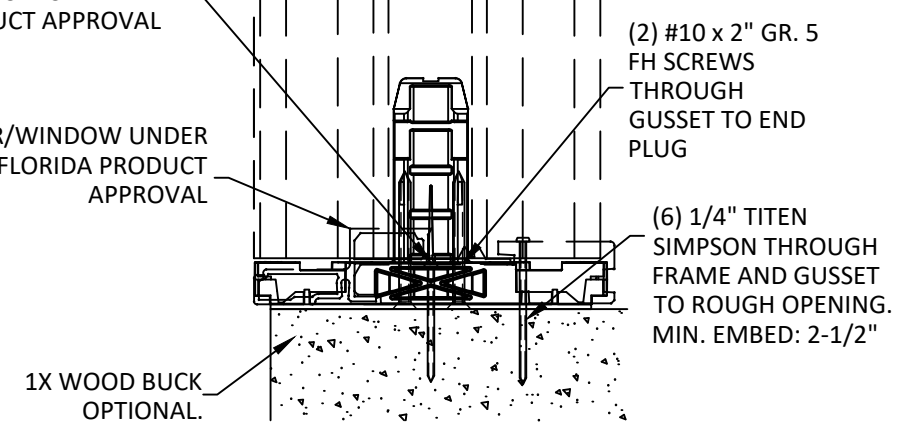
ADJACENT DOOR/WINDOW ANCHORS, UNDER SEPARATE APPROVAL (LOCATION VARIES PER PRODUCT SEE SEPARATE FLORIDA PRODUCT APPROVAL)

NOTE:
INSTALLATION DETAILS ARE APPLICABLE TO
4-9/16" AND 6-9/16" REINFORCED MULLION
ASSEMBLIES.

ADJACENT DOOR/WINDOW ANCHORS, UNDER SEPARATE APPROVAL (LOCATION VARIES PER PRODUCT SEE SEPARATE FLORIDA PRODUCT APPROVAL)



D
16
VERTICAL SECTION
MULLION ANCHOR DETAIL
FLAT GUSSET INSTALLATION - METAL STUD



F
16
VERTICAL SECTION
MULLION ANCHOR DETAIL
FLAT GUSSET INSTALLATION - CONCRETE OR MASONRY



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

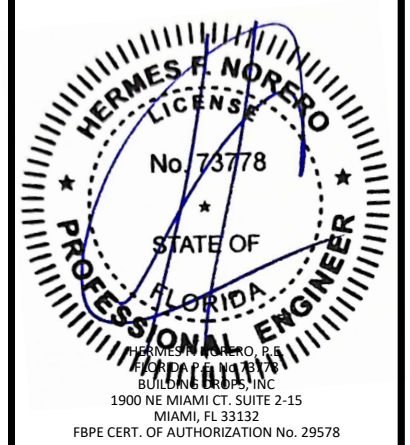
TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

FLAT GUSSET INSTALLATION DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

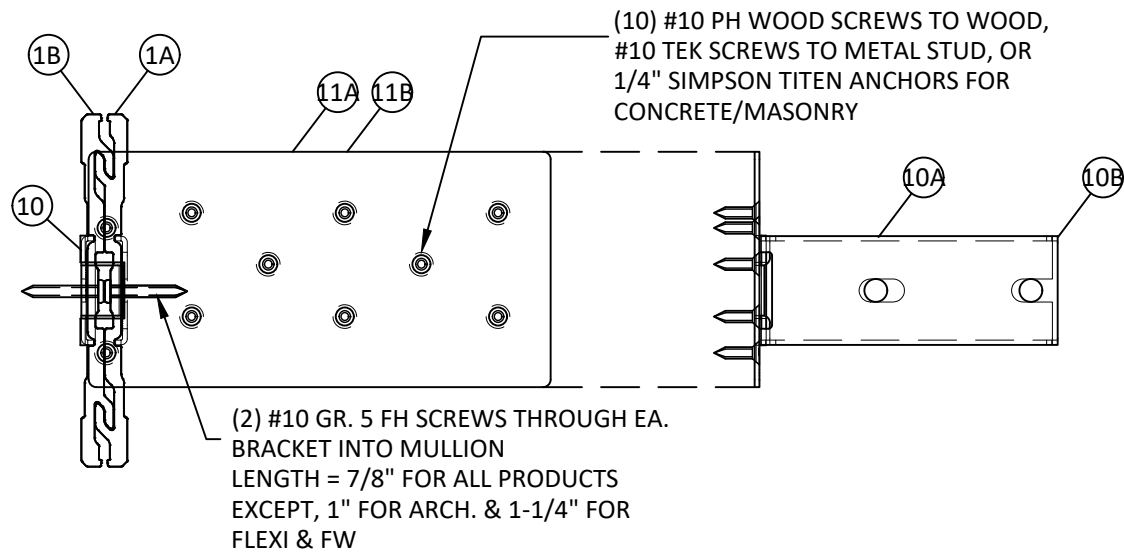
REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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FL #:	FL15922
DATE:	10.16.19
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD249
SHEET:	16

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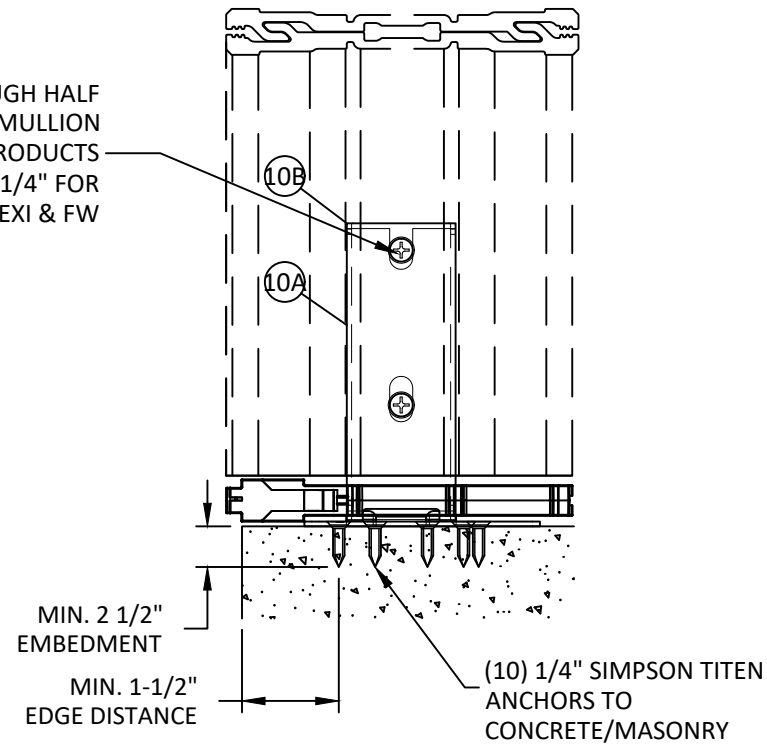


A
17

PLAN VIEW
MULLION ANCHOR DETAIL
SLIDE GUSSET INSTALLATION - TYP.

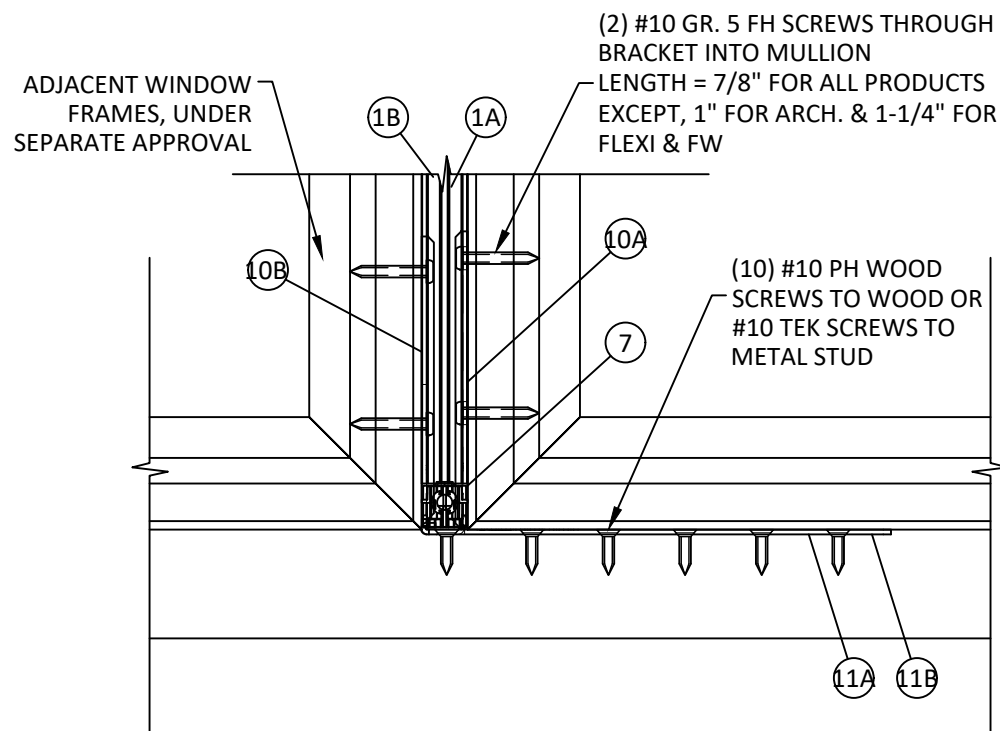
NOTE:
INSTALLATION DETAILS ARE APPLICABLE TO
4-9/16" AND 6-9/16" REINFORCED MULLION
ASSEMBLIES.

(2) #10 GR. 5 FH SCREWS THROUGH HALF
GUSSET FLANGE INTO MULLION
LENGTH = 7/8" FOR ALL PRODUCTS
EXCEPT, 1" FOR ARCH. & 1-1/4" FOR
FLEXI & FW



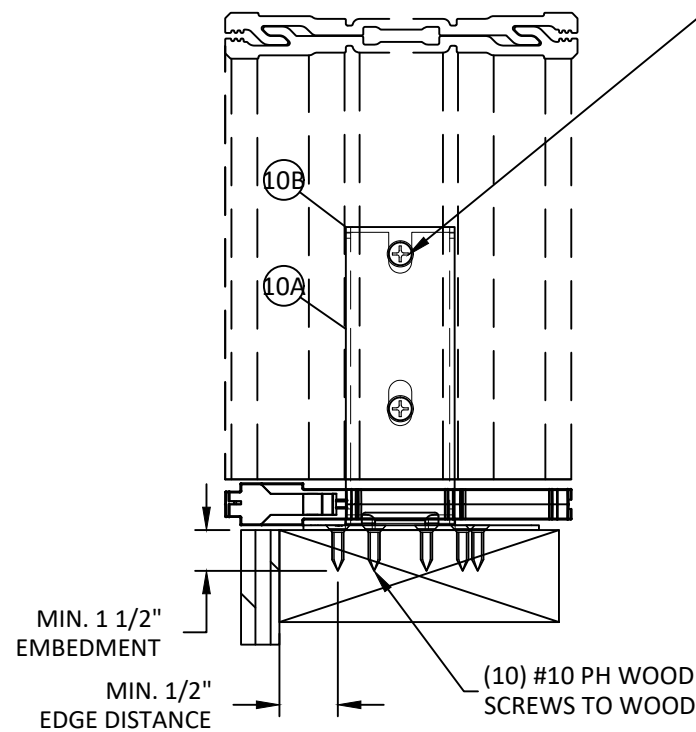
E
17

VERTICAL SECTION
MULLION ANCHOR DETAIL
SLIDE GUSSET INSTALLATION - CONCRETE/MASONRY



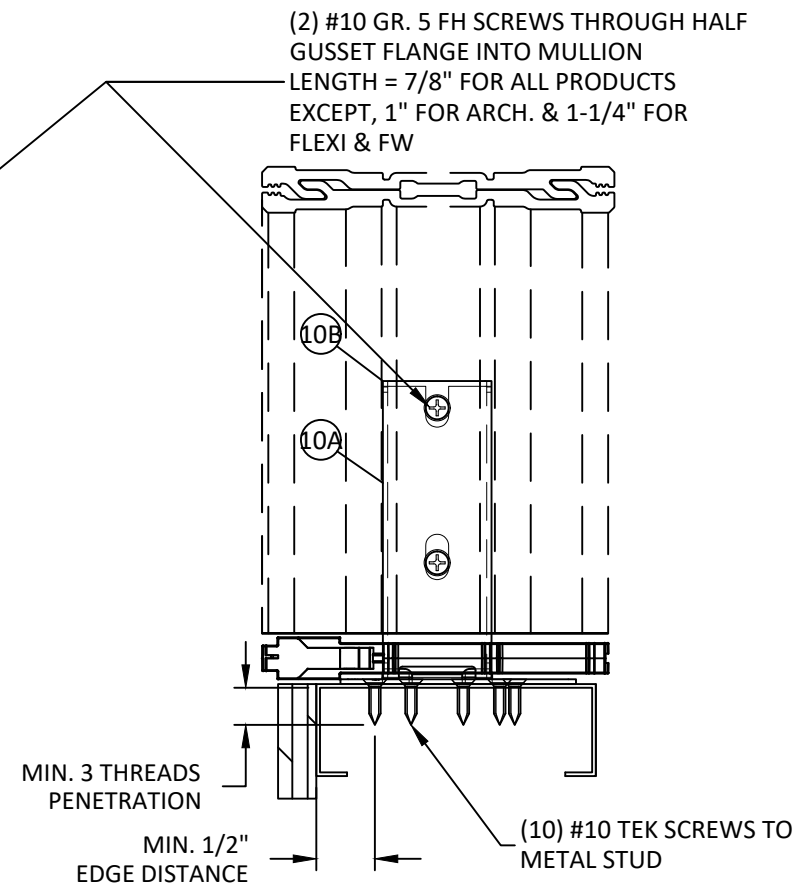
B
17

EXTERIOR VIEW
MULLION ANCHOR DETAIL
SLIDE GUSSET INSTALLATION - TYP.



C
17

VERTICAL SECTION
MULLION ANCHOR DETAIL
SLIDE GUSSET INSTALLATION - WOOD



D
17

VERTICAL SECTION
MULLION ANCHOR DETAIL
SLIDE GUSSET INSTALLATION - METAL STUD



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

SLIDE GUSSET INSTALLATION DETAILS

PREPARED BY:

BUILDING DROPS, INC.

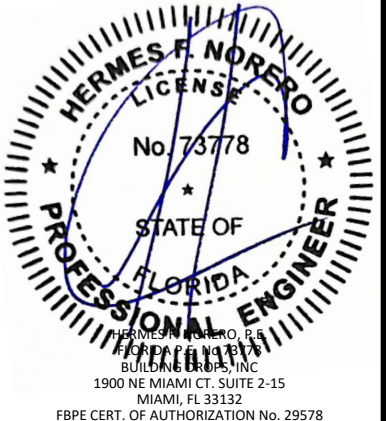
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

PH: (954) 399-8478
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REMARKS	BY	DATE
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2023 CODE CHANGE	MS	10/19/23
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DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:

FL15922

DATE: **10.16.19**

DWG. BY:
HR

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **AWD249**

SHEET:

17

OF 27

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	
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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	
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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	
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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	
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90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.2	90.8	86.0	82.6	80.3	79.0	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.0	86.0	78.6	73.0	68.8	65.7	63.4	61.9	61.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	
102.0	100.0	100.0	100.0	100.0	100.0	98.3	90.8	79.3	70.9	64.6	59.7	56.0	53.2	51.1	49.5	48.5	47.8	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	
108.0	100.0	100.0	100.0	99.4	90.0	82.4	76.1	66.3	59.1	53.7	49.5	46.3	43.8	41.8	40.3	39.2	38.5	38.0	37.9	37.9	37.9	37.9	37.9	37.9	37.9	
114.0	100.0	100.0	94.4	84.3	76.3	69.8	64.4	56.0	49.9	45.2	41.6	38.7	36.5	34.7	33.3	32.3	31.5	31.0	30.6	30.5	30.5	30.5	30.5	30.5	30.5	
120.0	100.0	91.9	80.7	72.1	65.2	59.6	55.0	47.8	42.4	38.4	35.2	32.7	30.8	29.2	27.9	26.9	26.1	25.6	25.2	24.9	24.8	24.8	24.8	24.8	24.8	
126.0	92.2	79.3	69.6	62.2	56.2	51.3	47.3	41.1	36.4	32.9	30.2	28.0	26.2	24.8	23.6	22.7	22.0	21.4	21.0	20.7	20.5	20.4	20.4	20.4	20.4	
132.0	80.2	68.9	60.5	54.0	48.8	44.5	41.0	35.6	31.5	28.4	26.0	24.1	22.5	21.2	20.2	19.4	18.7	18.1	17.7	17.4	17.2	17.0	17.0	17.0	17.0	
138.0	70.1	60.2	52.9	47.2	42.6	38.9	35.8	31.0	27.5	24.7	22.6	20.9	19.5	18.4	17.4	16.6	16.0	15.5	15.1	-	-	-	-	-	-	
144.0	61.7	53.0	46.5	41.5	37.4	34.2	31.5	27.2	24.1	21.7	19.8	18.2	17.0	16.0	15.1	-	-	-	-	-	-	-	-	-	-	

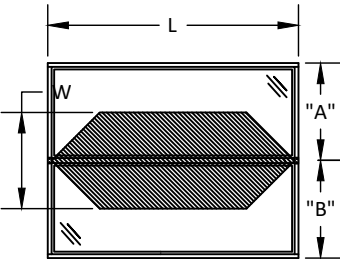
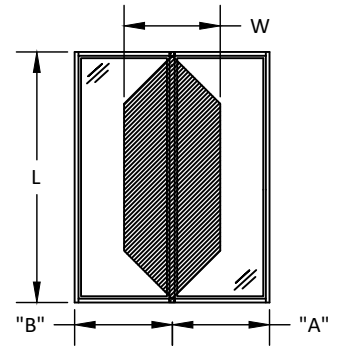
NOTE:

- 1) MULLION CHART APPLIES TO 4-9/16" (ITEM #1A) GROUP I 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 FLORIDA PRODUCT APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:

• STANDARD GUSSET INSTALLATION TO WOOD OR METAL STUD

• HALF GUSSET INSTALLATION TO WOOD, OR METAL STUD.

• FLAT GUSSET INSTALLATION TO WOOD, METAL STUD, MASONRY OR CONCRETE
- 6) TRIBUTARY WIDTH = W = (A+B)/2
- 7) REFER TO SHEETS 14 THRU 17 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, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

ONE WAY LOAD TABLE: GROUP I

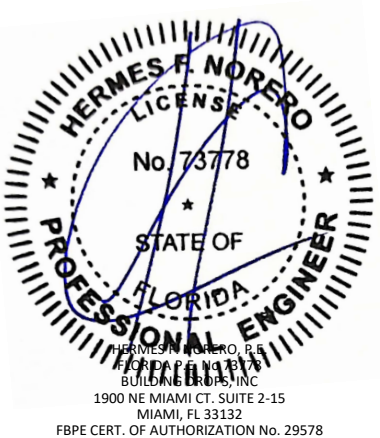
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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FL #:	FL15922
DATE:	10.16.19
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD249
SHEET:	

18

s:\projects\andersen windows\lbc-23-1219 - lbc submittal - f115922 a-series, 400 series, 200 series reinforced mullion - awd249-awd264 rev\dwg\awd249.dwg 12/21/2023 3:24 PM

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	100.0	100.0	100.0	100.0	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	95.5	91.7	89.2	87.7	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.5	87.3	81.1	76.4	72.9	70.4	68.7	67.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	
102.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	88.0	78.7	71.7	66.3	62.2	59.1	56.7	55.0	53.8	53.1	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	
108.0	100.0	100.0	100.0	100.0	99.9	91.5	84.5	73.6	65.6	59.6	55.0	51.4	48.6	46.4	44.8	43.5	42.7	42.2	42.0	42.0	42.0	42.0	42.0	42.0	42.0	
114.0	100.0	100.0	100.0	93.6	84.7	77.4	71.5	62.2	55.3	50.2	46.1	43.0	40.5	38.5	37.0	35.8	35.0	34.4	34.0	33.9	33.9	33.9	33.9	33.9	33.9	
120.0	100.0	100.0	89.6	80.0	72.4	66.2	61.0	53.0	47.1	42.6	39.1	36.4	34.1	32.4	31.0	29.9	29.0	28.4	27.9	27.7	27.6	27.6	27.6	27.6	27.6	
126.0	100.0	88.0	77.3	69.0	62.4	57.0	52.5	45.6	40.5	36.5	33.5	31.0	29.1	27.5	26.2	25.2	24.4	23.8	23.3	23.0	22.8	22.7	22.7	22.7	22.7	
132.0	89.0	76.5	67.1	59.9	54.1	49.4	45.6	39.5	35.0	31.6	28.9	26.7	25.0	23.6	22.4	21.5	20.7	20.1	19.6	19.3	19.0	18.9	18.8	18.8	18.8	
138.0	77.8	66.9	58.7	52.3	47.3	43.2	39.8	34.4	30.5	27.5	25.1	23.2	21.6	20.4	19.3	18.5	17.8	17.2	16.7	16.4	16.1	15.9	15.8	15.8	15.8	
144.0	68.4	58.8	51.6	46.0	41.6	37.9	34.9	30.2	26.7	24.0	21.9	20.2	18.9	17.7	16.8	16.0	15.4	-	-	-	-	-	-	-	-	

NOTE:

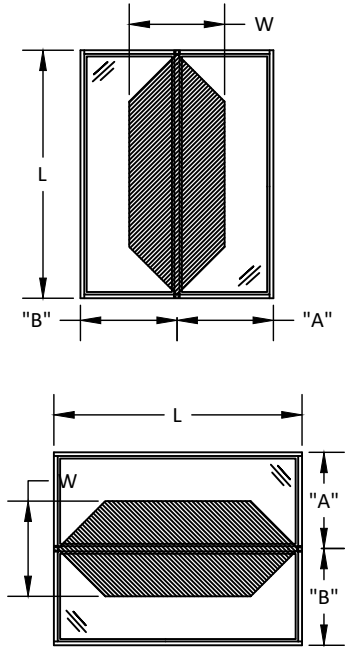
- 1) MULLION CHART APPLIES TO 4-9/16" (ITEM #1A) GROUP II REINFORCED COMPOSITE MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
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• HALF GUSSET INSTALLATION TO WOOD, OR METAL STUD.

• FLAT GUSSET INSTALLATION TO WOOD, METAL STUD, MASONRY OR CONCRETE
- 6) TRIBUTARY WIDTH = W = (A+B)/2
- 7) REFER TO SHEETS 14 THRU 17 FOR INSTALLATION DETAILS.
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A + B = W
2



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

ONE WAY LOAD TABLE: GROUP II

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

PH: (954) 399-8478

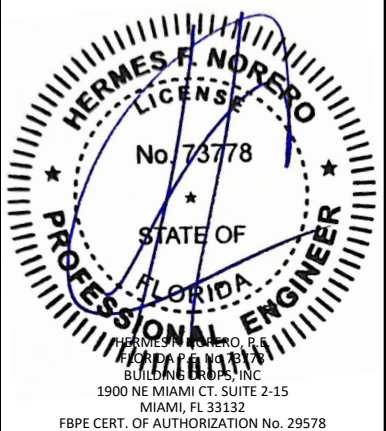
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

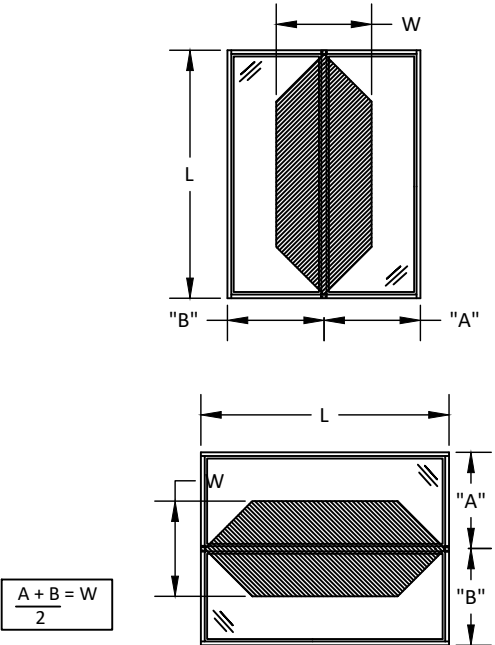
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FL #:	FL15922
DATE:	10.16.19
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD249
SHEET:	19

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	100.0	100.0	100.0	100.0	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	97.3	95.1	93.8	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	91.1	85.8	81.9	79.1	77.2	76.0	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	
102.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	88.4	80.5	74.5	69.9	66.3	63.7	61.7	60.4	59.6	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	
108.0	100.0	100.0	100.0	100.0	100.0	100.0	94.8	82.7	73.7	67.0	61.8	57.7	54.6	52.1	50.3	48.9	48.0	47.4	47.2	47.2	47.2	47.2	47.2	47.2	47.2	
114.0	100.0	100.0	100.0	100.0	95.1	87.0	80.3	69.8	62.2	56.3	51.8	48.3	45.5	43.3	41.6	40.2	39.3	38.6	38.2	38.0	38.0	38.0	38.0	38.0	38.0	
120.0	100.0	100.0	100.0	89.9	81.3	74.3	68.5	59.5	52.9	47.9	43.9	40.8	38.3	36.4	34.8	33.5	32.6	31.9	31.4	31.1	31.0	31.0	31.0	31.0	31.0	
126.0	100.0	98.9	86.8	77.5	70.1	64.0	59.0	51.2	45.4	41.0	37.6	34.9	32.7	30.9	29.5	28.3	27.4	26.7	26.2	25.8	25.6	25.5	25.5	25.5	25.5	
132.0	99.9	85.9	75.4	67.3	60.8	55.5	51.2	44.3	39.3	35.4	32.4	30.0	28.1	26.5	25.2	24.1	23.3	22.6	22.1	21.7	21.4	21.2	21.2	21.2	21.2	
138.0	87.4	75.1	65.9	58.8	53.1	48.5	44.7	38.7	34.2	30.8	28.2	26.0	24.3	22.9	21.7	20.7	20.0	19.3	18.8	18.4	18.1	17.9	17.8	17.7	17.7	
144.0	76.9	66.1	58.0	51.7	46.7	42.6	39.2	33.9	30.0	27.0	24.6	22.7	21.2	19.9	18.9	18.0	17.3	16.7	16.2	15.8	15.5	15.2	15.1	-	-	

- NOTE:
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 - HALF GUSSET INSTALLATION TO WOOD, OR METAL STUD.
 - FLAT GUSSET INSTALLATION TO WOOD, METAL STUD, MASONRY OR CONCRETE
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100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

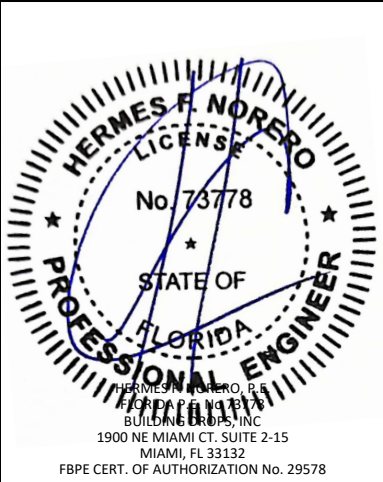
TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)
ONE WAY LOAD TABLE: GROUP II

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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FL #:	FL15922
DATE:	10.16.19
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD249
SHEET:	

20

s:\projects\andersen windows\lbc-23-1219 - fbc submittal - #15922 a-series, 400 series, 200 series reinforced mullion - awd249-awd264 rev\dwgs\awd249.dwg 12/21/2023 3:24 PM

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	95.2	90.9	87.0	83.3
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	95.2	90.2	85.7	81.6	77.9	74.5	71.4
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	93.8	88.2	83.3	78.9	75.0	71.4	68.2	65.2	62.5
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	95.2	88.9	83.3	78.4	74.1	70.2	66.7	63.5	60.6	58.0	55.6	
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	92.3	85.7	80.0	75.0	70.6	66.7	63.2	60.0	57.1	54.5	52.2	50.0	
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	90.9	83.9	77.9	72.7	68.2	64.2	60.6	57.4	54.5	51.9	49.6	47.4	45.5	
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.9	83.3	76.9	71.4	66.7	62.5	58.8	55.6	52.6	50.0	47.6	45.5	43.5	41.7	
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.3	83.9	76.9	71.0	65.9	61.5	57.7	54.3	51.3	48.6	46.2	44.0	42.0	40.1	38.5	
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.2	85.7	77.9	71.4	65.9	61.2	57.1	53.6	50.4	47.6	45.1	42.9	40.8	39.0	37.3	35.7	
90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2	83.8	75.4	68.5	62.8	58.0	53.8	50.3	47.1	44.3	41.9	39.7	37.7	35.9	34.3	32.8	31.4	
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	88.7	77.6	69.0	62.1	56.5	51.8	47.8	44.4	41.4	38.8	36.5	34.5	32.7	31.1	29.6	28.2	27.0	25.9	
102.0	100.0	100.0	100.0	100.0	100.0	94.2	86.3	74.0	64.7	57.5	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	
108.0	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	
114.0	100.0	100.0	92.7	82.4	74.2	67.4	61.8	53.0	46.4	41.2	37.1	33.7	30.9	28.5	26.5	24.7	23.2	21.8	20.6	19.5	18.5	17.7	16.9	16.1	15.5	
120.0	100.0	90.9	79.5	70.7	63.6	57.8	53.0	45.4	39.8	35.3	31.8	28.9	26.5	24.5	22.7	21.2	19.9	18.7	17.7	16.7	15.9	15.1	-	-	-	
126.0	91.6	78.5	68.7	61.0	54.9	49.9	45.8	39.2	34.3	30.5	27.5	25.0	22.9	21.1	19.6	18.3	17.2	16.2	15.3	-	-	-	-	-	-	
132.0	79.6	68.3	59.7	53.1	47.8	43.4	39.8	34.1	29.9	26.5	23.9	21.7	19.9	18.4	17.1	15.9	-	-	-	-	-	-	-	-	-	
138.0	69.7	59.7	52.3	46.5	41.8	38.0	34.9	29.9	26.1	23.2	20.9	19.0	17.4	16.1	-	-	-	-	-	-	-	-	-	-	-	
144.0	61.3	52.6	46.0	40.9	36.8	33.5	30.7	26.3	23.0	20.4	18.4	16.7	15.3	-	-	-	-	-	-	-	-	-	-	-	-	

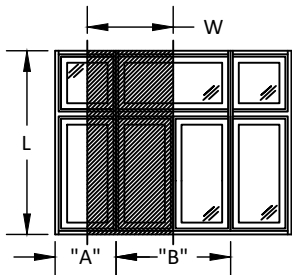
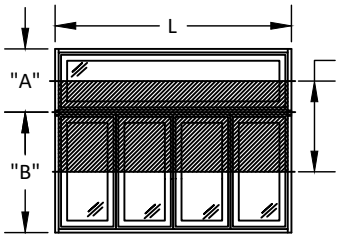
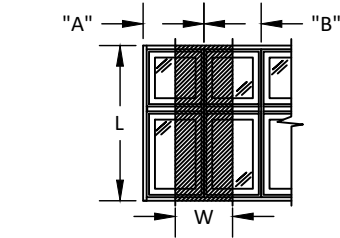
NOTE:

- 1) 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.
- 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 FLORIDA PRODUCT APPROVAL.
- 5) 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.

• FLAT GUSSET INSTALLATION TO WOOD, METAL STUD, MASONRY OR CONCRETE.
- 6) TRIBUTARY WIDTH = W = (A+B)/2
- 7) REFER TO SHEETS 14 THRU 17 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.



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

TWO WAY LOAD TABLE: GROUP I, II, III

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

PH: (954) 399-8478

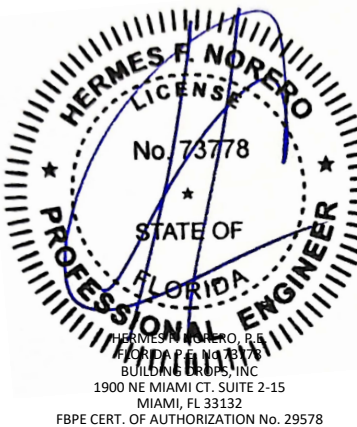
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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



FL #:	FL15922
DATE:	10.16.19
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD249
SHEET:	21

s:\projects\andersen windows\lbc-23-1219 - lbc submittal - #15922 a-series, 400 series, 200 series reinforced mullion - awd249-awd264 rev\dwg\awd249.dwg 12/21/2023 3:24 PM

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	100.0	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	97.2	95.2	94.1	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	
102.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.9	90.9	87.9	85.7	84.2	83.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0	
108.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.8	92.3	87.3	83.3	80.3	77.9	76.2	75.0	74.3	74.1	74.1	74.1	74.1	74.1	74.1	74.1	
114.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.0	85.7	80.8	76.9	73.8	71.4	69.6	68.2	67.2	66.7	66.5	66.5	66.5	66.5	66.5	66.5	
120.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.8	86.0	80.0	75.2	70.9	67.2	64.3	62.0	60.2	58.9	58.0	57.5	57.3	57.3	57.3	57.3	57.3	
126.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.6	84.0	75.8	69.5	64.4	60.4	57.1	54.4	52.3	50.6	49.3	48.3	47.7	47.3	47.1	47.1	47.1	47.1	
132.0	100.0	100.0	100.0	100.0	100.0	100.0	94.6	82.0	72.6	65.5	59.9	55.5	51.9	48.9	46.5	44.6	43.0	41.8	40.8	40.0	39.5	39.2	39.1	39.1	39.1	
138.0	100.0	100.0	100.0	100.0	98.2	89.6	82.5	71.5	63.3	57.0	52.1	48.1	44.9	42.3	40.1	38.4	36.9	35.7	34.8	34.0	33.5	33.1	32.8	32.7	32.7	
144.0	100.0	100.0	100.0	95.5	86.3	78.7	72.5	62.7	55.5	49.9	45.5	42.0	39.2	36.8	34.9	33.3	31.9	30.8	29.9	29.2	28.6	28.2	27.9	27.7	27.6	

NOTE:

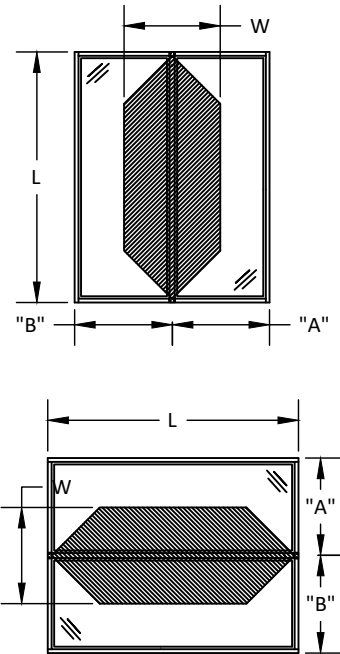
- 1) MULLION CHART APPLIES TO 6-9/16" (ITEM #1A) GROUP IV REINFORCED COMPOSITE MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
- 4) ESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FLORIDA PRODUCT APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:

• STANDARD GUSSET INSTALLATION TO WOOD OR METAL STUD

• HALF GUSSET INSTALLATION TO WOOD, OR METAL STUD.

• FLAT GUSSET INSTALLATION TO WOOD, METAL STUD, MASONRY OR CONCRETE
- 6) TRIBUTARY WIDTH = W = (A+B)/2
- 7) REFER TO SHEETS 14 THRU 17 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.

A + B = W
2



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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

ONE WAY LOAD TABLE: GROUP I

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

PH: (954)399-8478

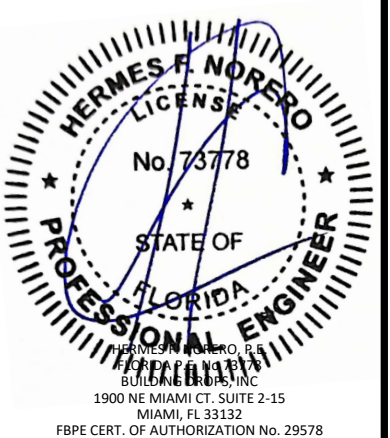
FAX: (954)744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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

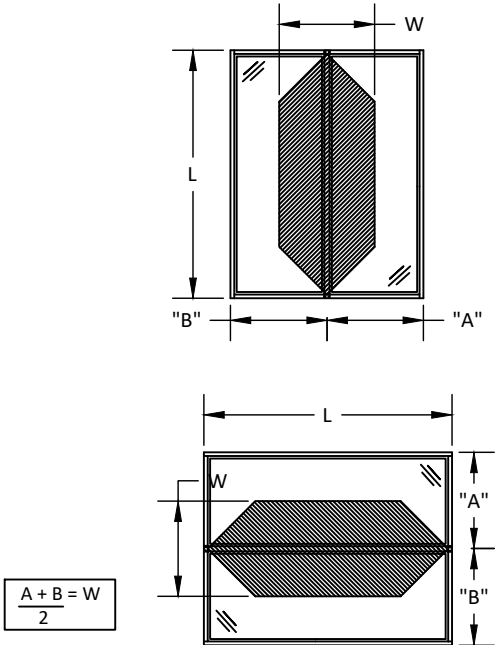


FL #:	FL15922
DATE:	10.16.19
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD249
SHEET:	22

[illegible]

NOTE:

- 1) MULLION CHART APPLIES TO 6-9/16" (ITEM #1A) 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 FLORIDA PRODUCT APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
 - STANDARD GUSSET INSTALLATION TO WOOD OR METAL STUD
 - HALF GUSSET INSTALLATION TO WOOD, OR METAL STUD.
 - FLAT GUSSET INSTALLATION TO WOOD, METAL STUD, MASONRY OR CONCRETE
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) REFER TO SHEETS 14 THRU 17 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.



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

**TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVVHVZ)(IMPACT)**

ONE WAY LOAD TABLE: GROUP II

BUILDING DROPS, INC.

1900 NE MIAMI CT. SUITE 2-15
MIAMI FL 33133

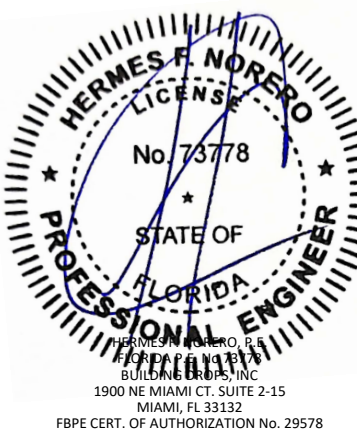
MIAMI, FL 33132
PH: (954)399-8478

FAX: (954) 744.4738



REMARKS	BY	DATE
7TH CODE CHANGE	YC	10/20
2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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



FL #:

FL15922

DATE: 10.16.19

DWG. BY:
HR

CHK. BY:
HFN

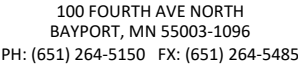
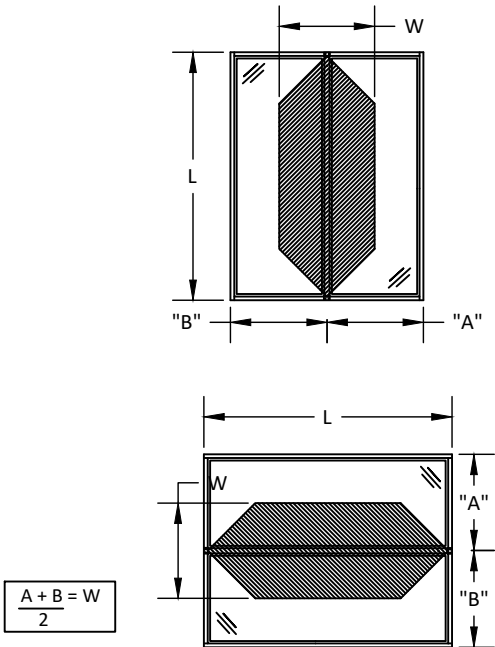
SCALE: NTS

DWG. #: **AWD249**

SHEET:

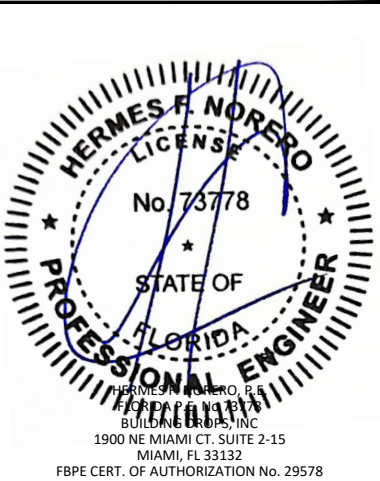
23

- 1) MULLION CHART APPLIES TO 6-9/16" (ITEM #1A) 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 FLORIDA PRODUCT APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
 - STANDARD GUSSET INSTALLATION TO WOOD OR METAL STUD
 - HALF GUSSET INSTALLATION TO WOOD, OR METAL STUD.
 - FLAT GUSSET INSTALLATION TO WOOD, METAL STUD, MASONRY OR CONCRETE
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) REFER TO SHEETS 14 THRU 17 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.



REMARKS	BY	DATE
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2023 CODE CHANGE	MS	10/19/23
MISC. UPDATES	SH	12/21/23

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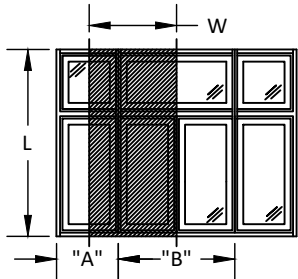
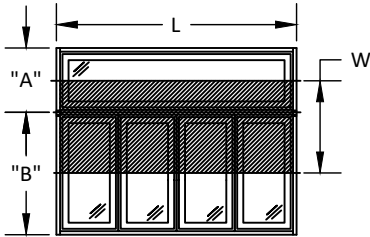
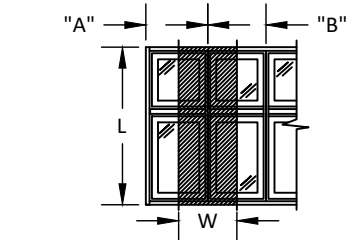
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUP IV, V, OR VI (TWO-WAY CONFIGURATIONS)																										
L - Mull Length (in)	W - Tributary Width (in)																									
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	54.0	60.0	66.0	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	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	95.2	90.9	87.0	83.3
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	95.2	90.2	85.7	81.6	77.9	74.5	71.4
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	93.8	88.2	83.3	78.9	75.0	71.4	68.2	65.2	62.5	
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	95.2	88.9	83.3	78.4	74.1	70.2	66.7	63.5	60.6	58.0	55.6	
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	92.3	85.7	80.0	75.0	70.6	66.7	63.2	60.0	57.1	54.5	52.2	50.0	
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	90.9	83.9	77.9	72.7	68.2	64.2	60.6	57.4	54.5	51.9	49.6	47.4	45.5	
72.0	100.0	100.0	100.0	9.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.9	83.3	76.9	71.4	66.7	62.5	58.8	55.6	52.6	50.0	47.6	45.5	43.5	41.7	
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.3	83.9	76.9	71.0	65.9	61.5	57.7	54.3	51.3	48.6	46.2	44.0	42.0	40.1	38.5	
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.2	85.7	77.9	71.4	65.9	61.2	57.1	53.6	50.4	47.6	45.1	42.9	40.8	39.0	37.3	35.7
90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	88.9	80.0	72.7	66.7	61.5	57.1	53.3	50.0	47.1	44.4	42.1	40.0	38.1	36.4	34.8	33.3
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.8	83.3	75.0	68.2	62.5	57.7	53.6	50.0	46.9	44.1	41.7	39.5	37.5	35.7	34.1	32.6	31.3
102.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	88.2	78.4	70.6	64.2	58.8	54.3	50.4	47.1	44.1	41.5	39.2	37.2	35.3	33.6	32.1	30.7	29.4
108.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.2	83.3	74.1	66.7	60.6	55.6	51.3	47.6	44.4	41.7	39.2	37.0	35.1	33.3	31.7	30.3	29.0	27.8	
114.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.2	78.9	70.2	63.2	57.4	52.6	48.6	45.1	42.1	39.5	37.2	35.1	33.2	31.6	30.1	28.7	27.5	26.3	
120.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	85.7	75.0	66.7	60.0	54.5	50.0	46.2	42.9	40.0	37.5	35.3	33.3	31.6	30.0	28.6	27.3	26.1	25.0	
126.0	100.0	100.0	100.0	100.0	100.0	100.0	91.7	78.6	68.8	61.1	55.0	50.0	45.8	42.3	39.3	36.7	34.4	32.4	30.6	28.9	27.5	26.2	25.0	23.9	22.9	
132.0	100.0	100.0	100.0	100.0	100.0	91.1	83.5	71.6	62.6	55.7	50.1	45.6	41.8	38.6	35.8	33.4	31.3	29.5	27.8	26.4	25.1	23.9	22.8	21.8	20.9	
138.0	100.0	100.0	100.0	100.0	91.7	83.4	76.4	65.5	57.3	50.9	45.9	41.7	38.2	35.3	32.8	30.6	28.7	27.0	25.5	24.1	22.9	21.8	20.8	19.9	19.1	
144.0	100.0	100.0	100.0	93.6	84.2	76.6	70.2	60.2	52.6	46.8	42.1	38.3	35.1	32.4	30.1	28.1	26.3	24.8	23.4	22.2	21.1	20.1	19.1	18.3	17.5	

- NOTE:
- 1) 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.
 - 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 FLORIDA PRODUCT APPROVAL.
 - 5) 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.
 - FLAT GUSSET INSTALLATION TO WOOD, METAL STUD, MASONRY OR CONCRETE.
 - 6) TRIBUTARY WIDTH = W = (A+B)/2
 - 7) REFER TO SHEETS 14 THRU 17 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.

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





ANDERSEN
WINDOWS & DOORS

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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)(IMPACT)

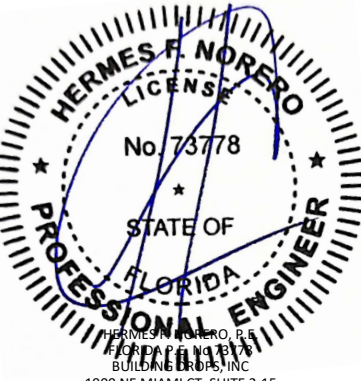
TWO WAY LOAD TABLE: GROUP IV, V, VI

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



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PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL15922

DATE: **10.16.19**

DWG. BY: **HR** CHK. BY: **HFN**

SCALE: **NTS**

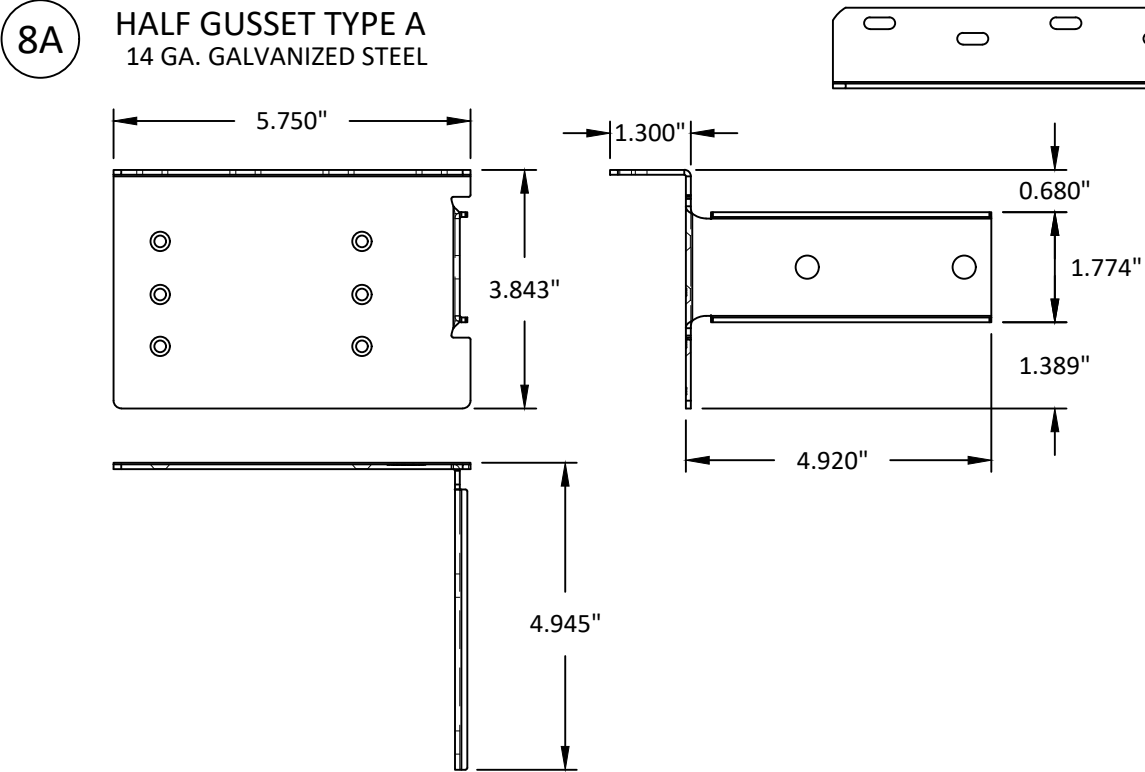
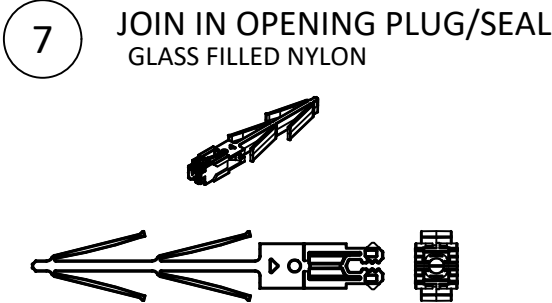
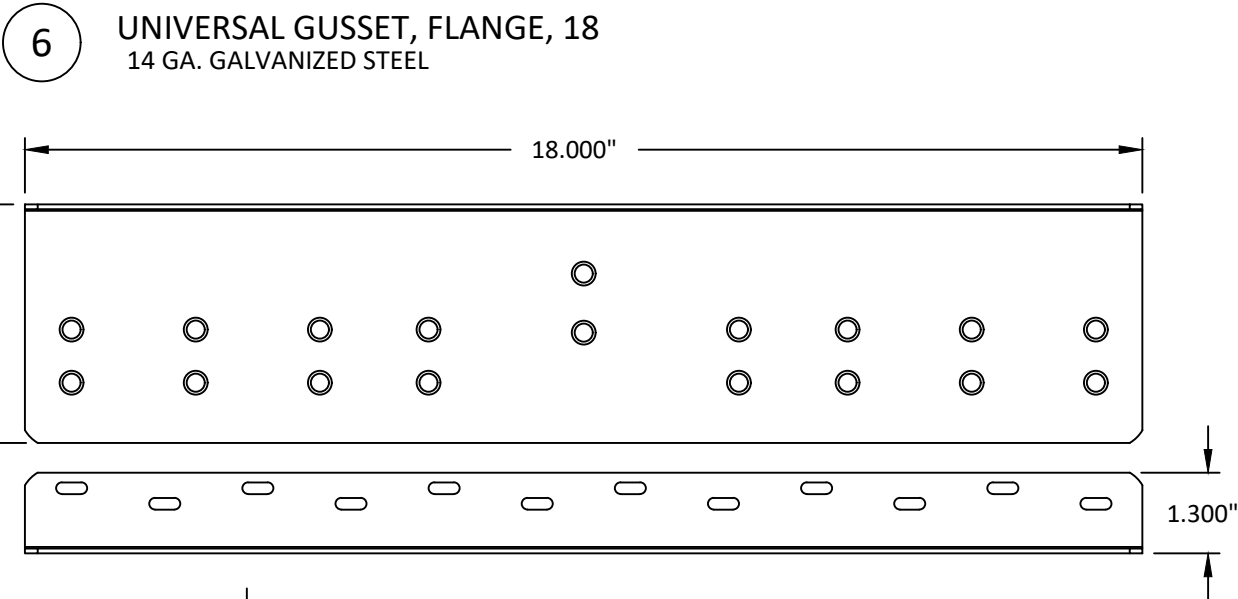
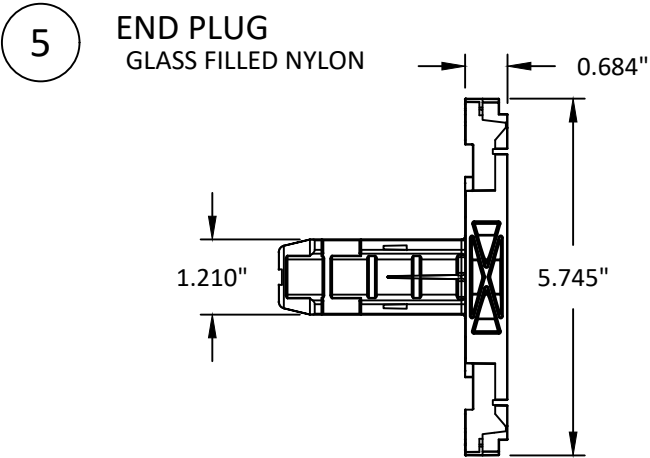
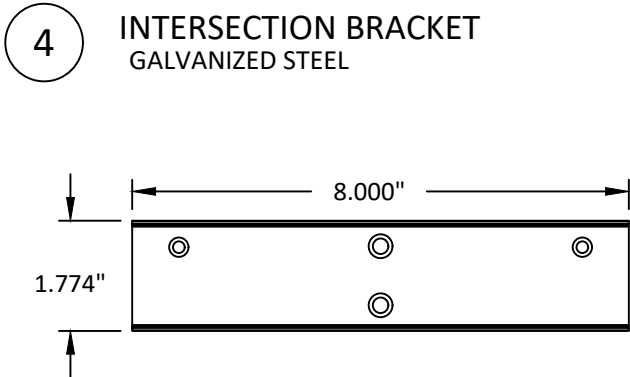
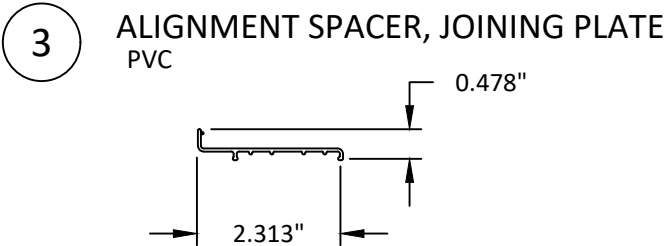
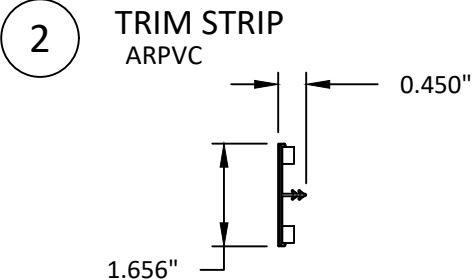
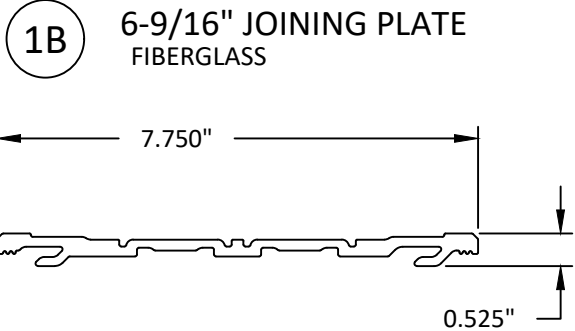
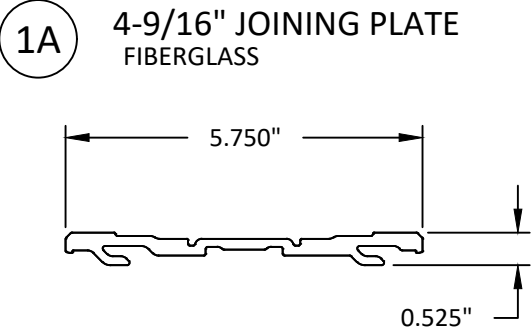
DWG. #: **AWD249**

SHEET:

25

OF 27

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	ARPVC	ANDERSEN CORPORATION
3	ALIGNMENT SPACER, JOINING PLATE ASER/WW/TW/FF/DOORS	PVC	ANDERSEN CORPORATION
4	INTERSECTION BRACKET	GALVANIZED STEEL	ANDERSEN CORPORATION
5	END PLUG	GLASS FILLED NYLON	ANDERSEN CORPORATION
6	UNIVERSAL GUSSET, FLANGE, 18	GALVANIZED STEEL	ANDERSEN CORPORATION
7	JOIN IN OPENING PLUG/SEAL	GLASS FILLED NYLON	ANDERSEN CORPORATION
8A	HALF GUSSET TYPE A	GALVANIZED STEEL	ANDERSEN CORPORATION
8B	HALF GUSSET TYPE B	GALVANIZED STEEL	ANDERSEN CORPORATION
9	UNIVERSAL GUSSET, FLAT, 18	GALVANIZED STEEL	ANDERSEN CORPORATION
10A	FIXED BRACKET	GALVANIZED STEEL	ANDERSEN CORPORATION
10B	SLIDE BRACKET	GALVANIZED STEEL	ANDERSEN CORPORATION
11A	SLIDE GUSSET TYPE A	GALVANIZED STEEL	ANDERSEN CORPORATION
11B	SLIDE GUSSET TYPE B	GALVANIZED STEEL	ANDERSEN CORPORATION





ANDERSEN
WINDOWS & DOORS

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

TITLE: A-SERIES, 400 SERIES
AND 200 SERIES PATIO DOOR
REINFORCED MULLION JOINING
(HVHVZ)/(IMPACT)

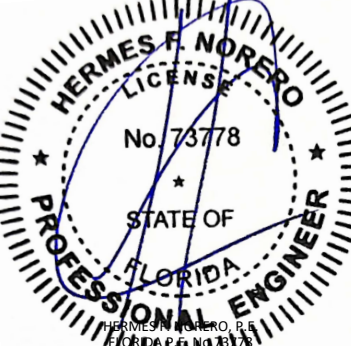
BILL OF MATERIALS & COMPONENTS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
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FBPE CERT. OF AUTHORIZATION No. 29578

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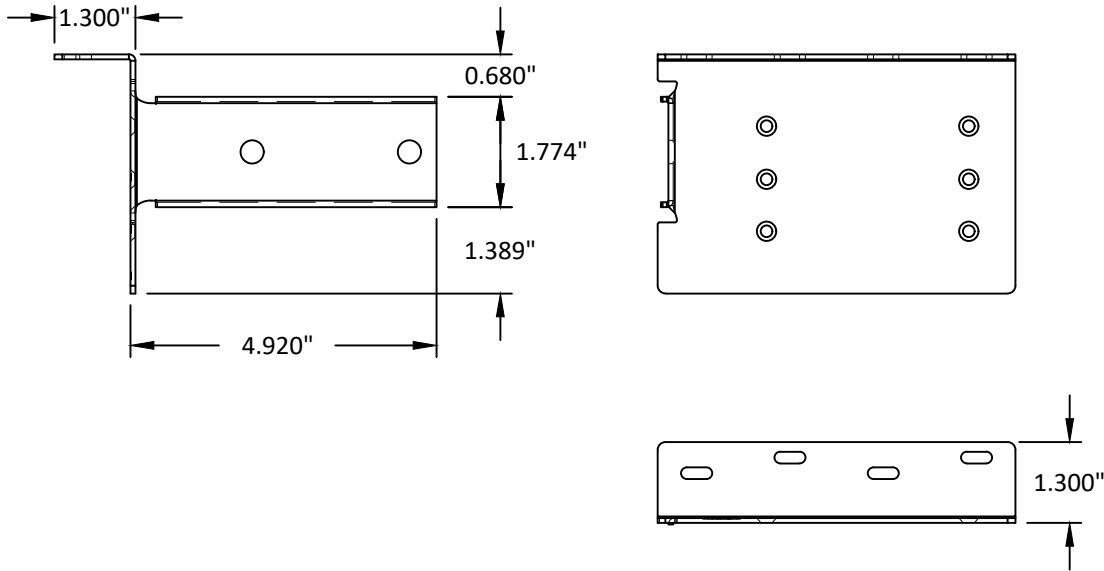
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DWG. #: **AWD249**

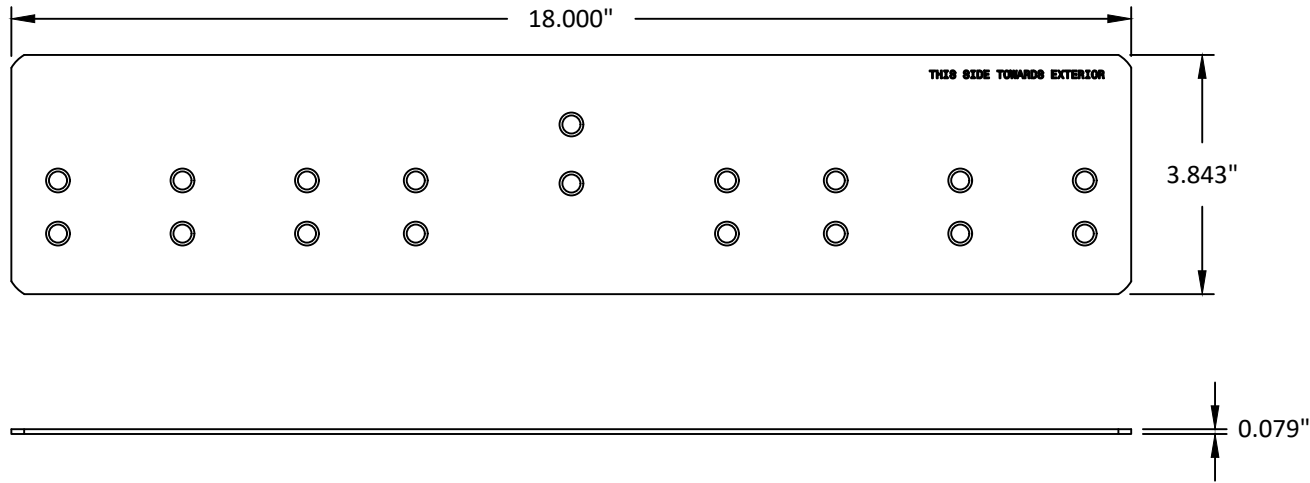
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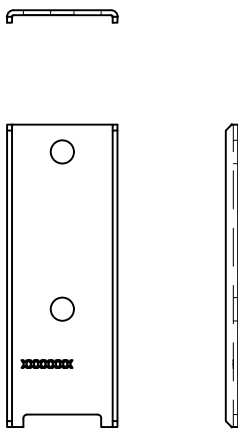
8B HALF GUSSET TYPE B
14 GA. GALVANIZED STEEL



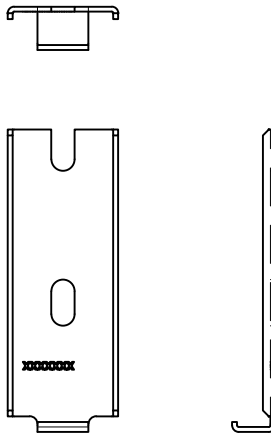
9 UNIVERSAL GUSSET, FLANGE, 18
14 GA. GALVANIZED STEEL



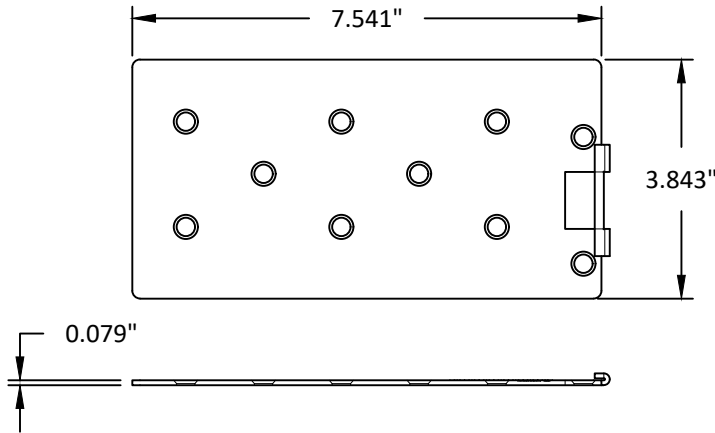
10A FIXED BRACKET
14 GA. GALVANIZED STEEL



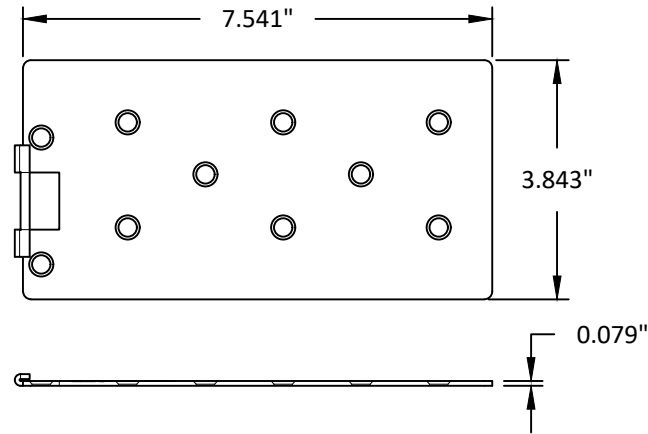
10B SLIDE BRACKET
14 GA. GALVANIZED STEEL



11A SLIDE GUSSET, TYPE A
14 GA. GALVANIZED STEEL



11B SLIDE GUSSET, TYPE A
14 GA. GALVANIZED STEEL



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COMPONENTS

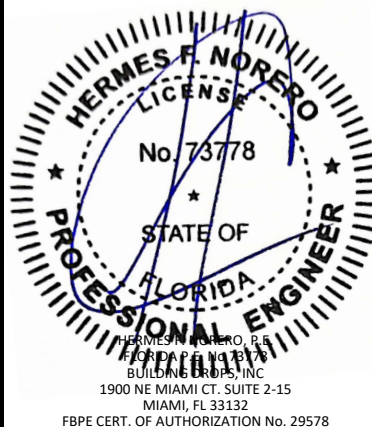
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27

OF 27