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ANDERSEN CORPORATION

RENEWAL BY ANDERSEN HIGH PERFORMANCE MULLION

(WZ3) (IMPACT)

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. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE 1X BUCKING, SHEATHING, & WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
5. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
6. 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.
7. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

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

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC) **EXCLUDING** HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:

TAS 201-94

TAS 202-94

TAS 203-94

ASTM E1886-19

ASTM E1996-20

AAMA 450-20
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.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
7. MULLION MATERIAL: FIBERGLASS
8. IN ACCORDANCE WITH THE CURRENT FBC, DISSIMILAR METALS INCLUDING FASTENERS SHALL BE PROTECTED FROM GALVANIC CORROSION.
9. CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.
- 10.INTERIOR TRIM OPTIONS MAY VARY IN ACCORDANCE WITH ANDERSEN'S RECOMMENDATIONS.
- 11.MULL ASSEMBLIES ARE QUALIFIED FOR TWO OR MORE UNITS PER OPENING IN THE FOLLOWING CONFIGURATION:

"ONE WAY" - RIBBON OR STACKED MULLIONS

"TWO WAY" - 'X' OR 'T' MULLIONS, SEE SHEET 8 FOR TYPICAL ELEVATION TYPES.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL AND INSTALLATION NOTES
2	MULL ASSEMBLY SECTIONS
3	MULL ASSEMBLY SECTIONS
4	COMPONENT DETAILS AND INSTALLATION NOTES
5	COMPONENT DETAILS
6	MULLION ASSEMBLY AND ANCHOR DETAILS
7	ONE - WAY MULLION TABLES AND INSTALLATION NOTES
8	TWO - WAY MULLION TABLES AND INSTALLATION NOTES

PRODUCT ABBREVIATION KEY	
ABBREVIATION	PRODUCT NAME
PW =	PICTURE WINDOW FRAME
CS =	CASEMENT WINDOW FRAME
DH =	DOUBLE HUNG WINDOW FRAME
GL =	GLIDING WINDOW FRAME

MISSILE IMPACT RATING
LARGE AND SMALL MISSILE IMPACT

MULLING INSTRUCTIONS:

- STEP 1: ESTABLISH MULL ASSEMBLY FRAME TYPES AND MULL CONFIGURATION.
- STEP 2: VERIFY MULL ASSEMBLY CONSTRUCTION FROM SHEETS 2-3 (REFER TO ABBREVIATION TABLE ABOVE).
- STEP 3: DETERMINE ALLOWABLE LOAD OF MULL ASSEMBLY FROM APPLICABLE LOAD TABLE, REFER TO SHEETS 7-8.
- STEP 4: INSTALL MULLION BASED ON APPLICABLE SPECIFICATIONS & DETAILS SHOWN ON SHEET 6.



RENEWAL
by ANDERSEN
FULL SERVICE WINDOW & DOOR REPLACEMENT

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TITLE:
RENEWAL BY ANDERSEN
HIGH PERFORMANCE MULLION
(WZ3) (IMPACT)

GENERAL AND INSTALLATION NOTES

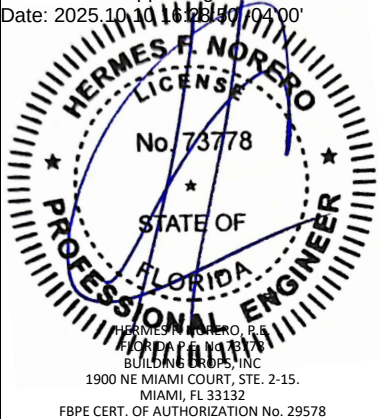
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Reason: I am approving this document
Date: 2025.10.10 16:35:00 -04'00'



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FBPE CERT. OF AUTHORIZATION No. 29578

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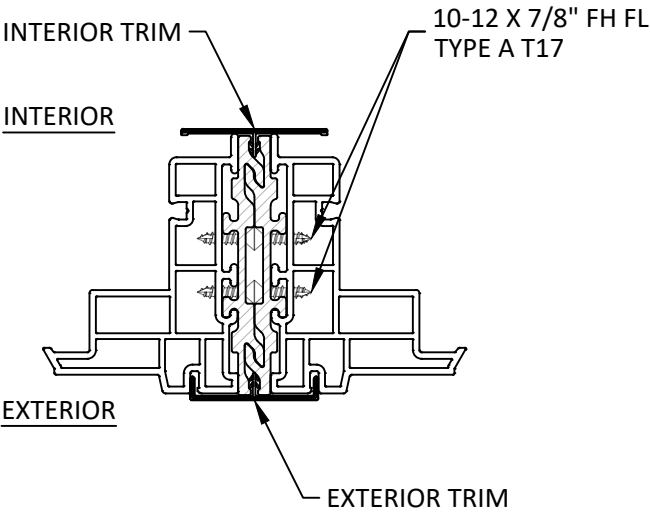
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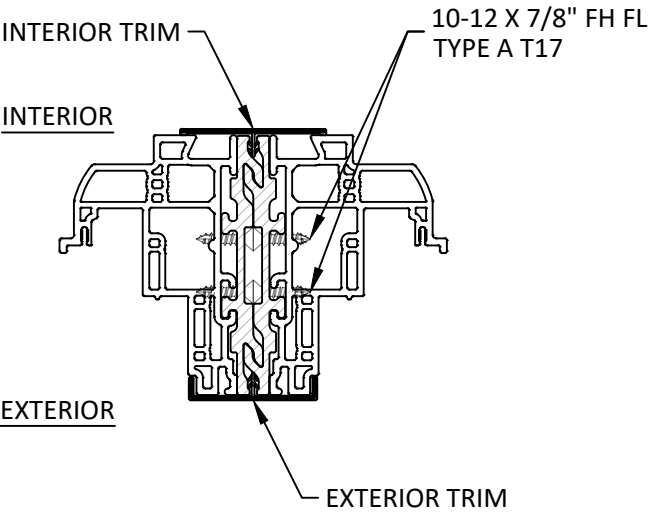
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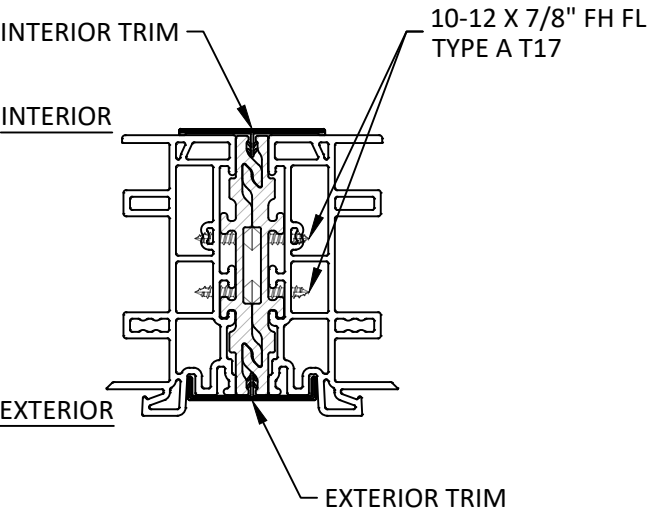
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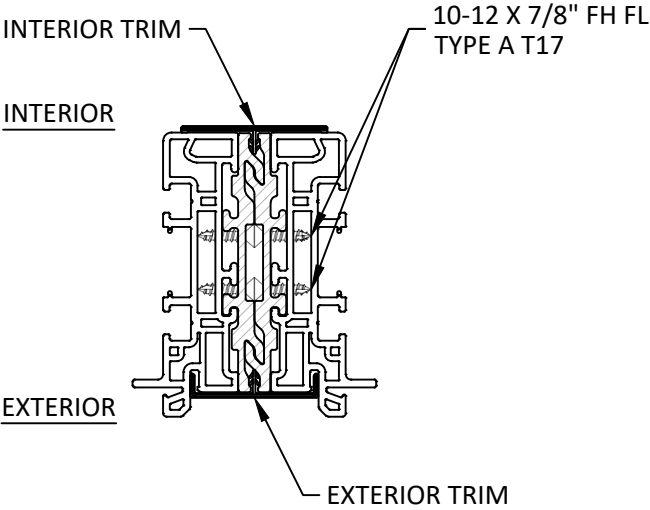
A
2 PW TO PW
VERTICAL OR HORIZONTAL MULL



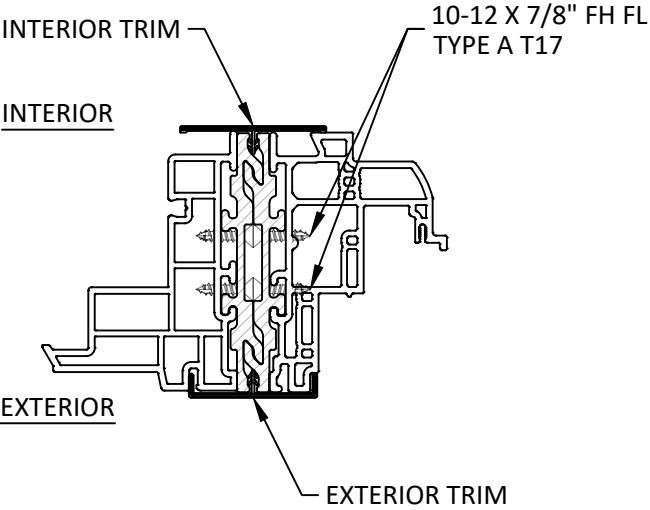
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2 CS TO CS
VERTICAL OR HORIZONTAL MULL



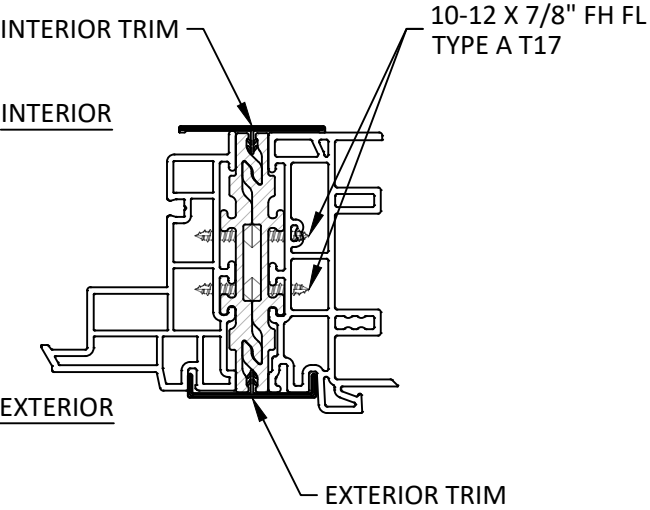
C
2 GL TO GL
VERTICAL MULL



D
2 DH TO DH
VERTICAL MULL



F
2 PW TO CS
VERTICAL OR HORIZONTAL MULL



G
2 PW TO GL
VERTICAL OR HORIZONTAL MULL



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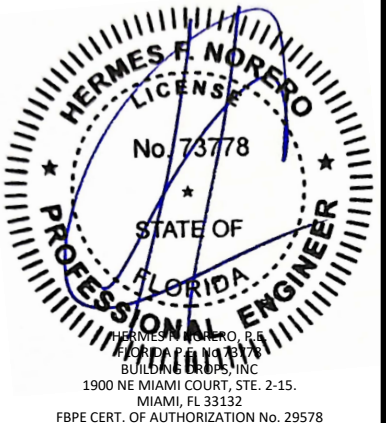
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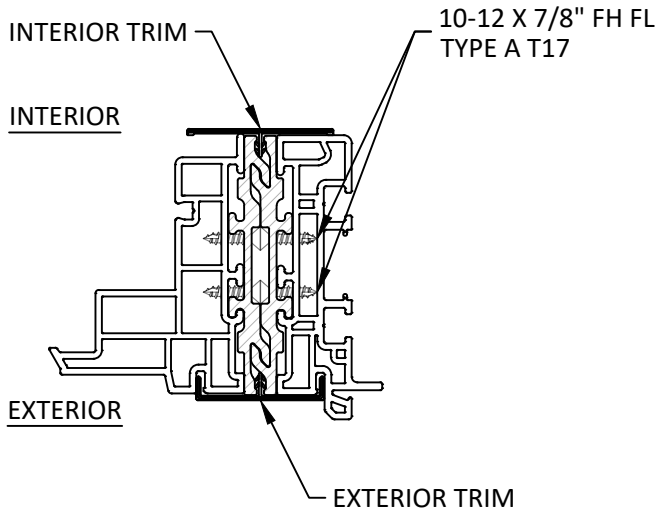
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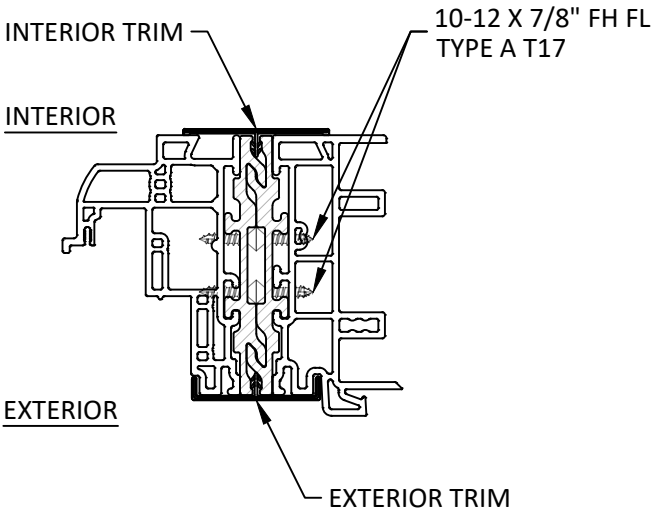


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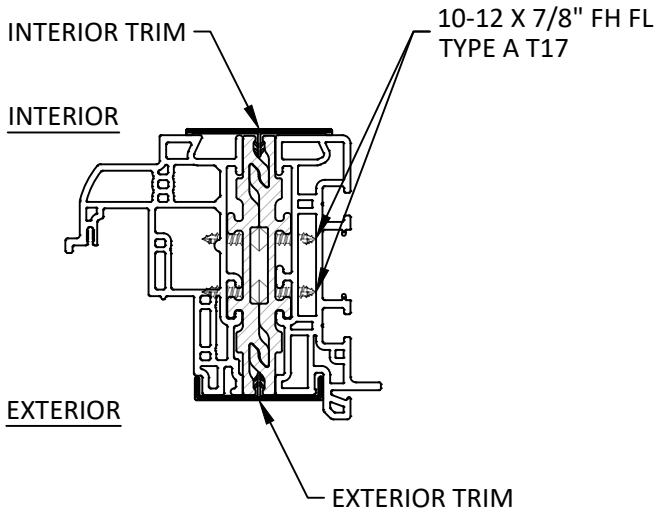
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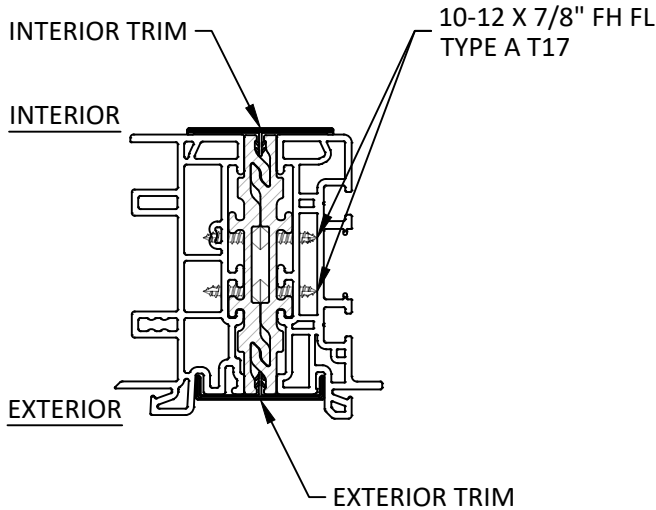
A
3 PW TO DH
VERTICAL OR HORIZONTAL MULL



B
3 CS TO GL
VERTICAL OR HORIZONTAL MULL



C
3 CS TO DH
VERTICAL OR HORIZONTAL MULL



D
3 GL TO DH
VERTICAL MULL



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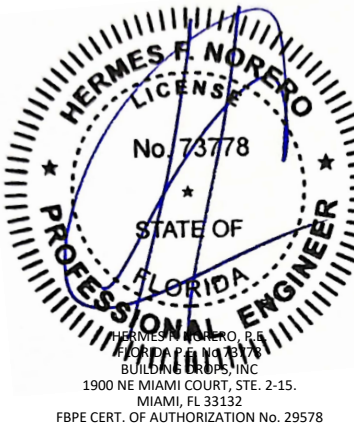
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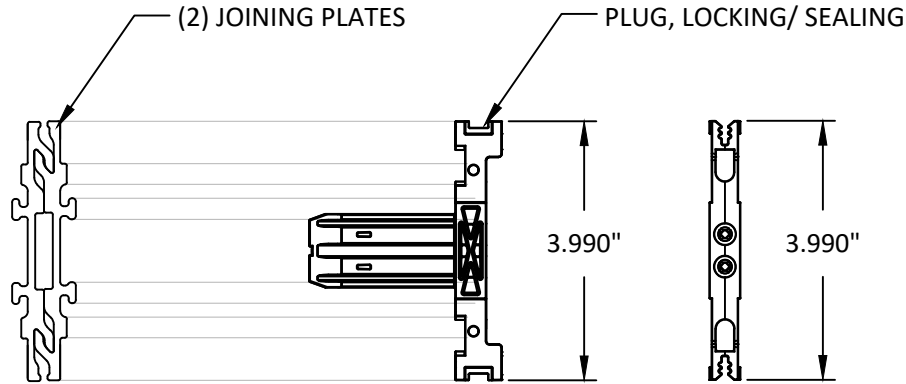


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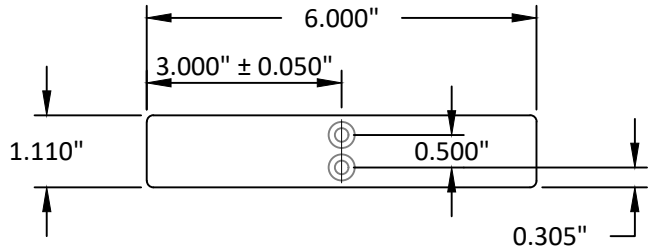
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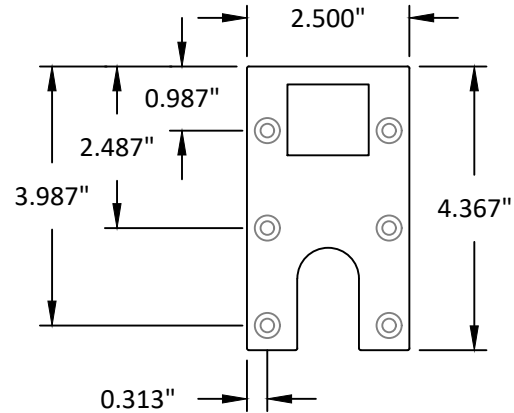
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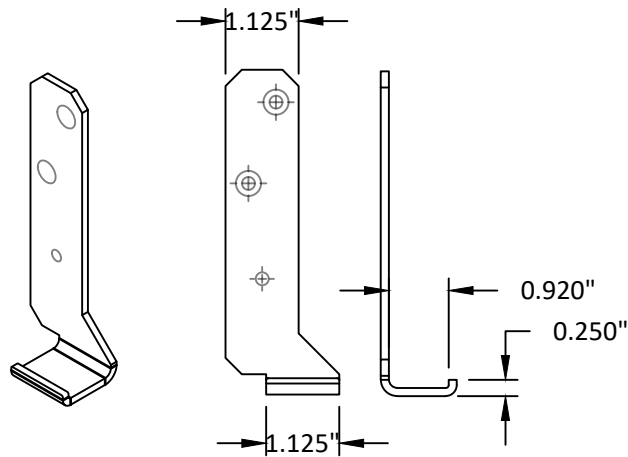
A
4 TYPICAL DETAIL
PLUG, LOCKING/SEALING, JOINING PLATE



B
4 TYPICAL DETAIL
BRACKET, INTERSECTION, MULL.



C
4 TYPICAL DETAIL
SLIDE GUSSET



D
4 TYPICAL DETAIL
SLIDE BRACKET

INSTALLATION NOTES:

- FOR FACTORY PREPPED INSTALLATION, EACH WINDOW FRAME SHALL BE ATTACHED TO SLIDE BRACKET WITH (6) 10-12 X 7/8" PH FL TYPE A T17 SCREWS.
- FOR INSTALLATION THROUGH 2X BUCK USE EIGHT (8) #10 FH WOOD SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - MINIMUM EMBEDMENT OF 1-1/2" INTO WOOD
 - MINIMUM EDGE DISTANCE OF 3/4"
- FOR INSTALLATION THROUGH METAL FRAME USE EIGHT (8) #10 FH SELF-DRILLING OR SELF-TAPPING, SAE GR. 5, TYPE SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.
 - THREE THREADS MINIMUM PENETRATION BEYOND METAL FRAME WALL.
 - MINIMUM EDGE DISTANCE OF 1/2"
- FOR INSTALLATION DIRECT TO CONCRETE/MASONRY SUBSTRATES OR THROUGH 1X BUCK TO CONCRETE/MASONRY SUBSTRATES, USE EIGHT (8) 3/16" FH ITW TAPCON TYP ANCHORS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.
 - MINIMUM EMBEDMENT OF 1-1/4" INTO SUBSTRATE
 - MINIMUM EDGE DISTANCE OF 2-1/2"
- "MASONRY" SUBSTRATES REFER TO GROUT FILLED OR HOLLOW BLOCK OPENINGS.
- SEE SHEET 1, INSTALLATION NOTE 7 FOR SUBSTRATE MINIMUM PROPERTIES.
- SEE SHEET 6 FOR ANCHOR PLACEMENT DETAILS.



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COMPONENT DETAILS AND
INSTALLATION NOTES

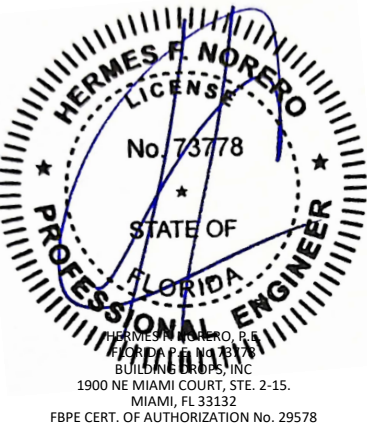
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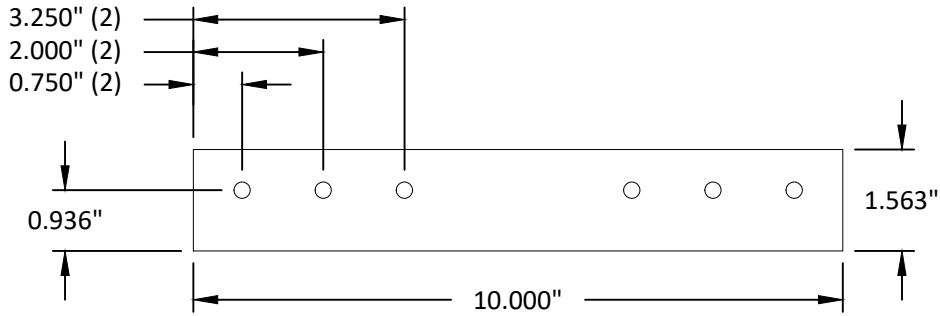
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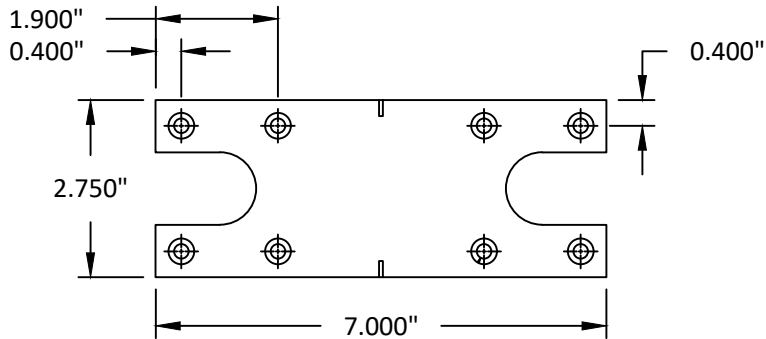
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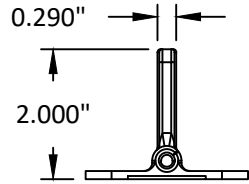
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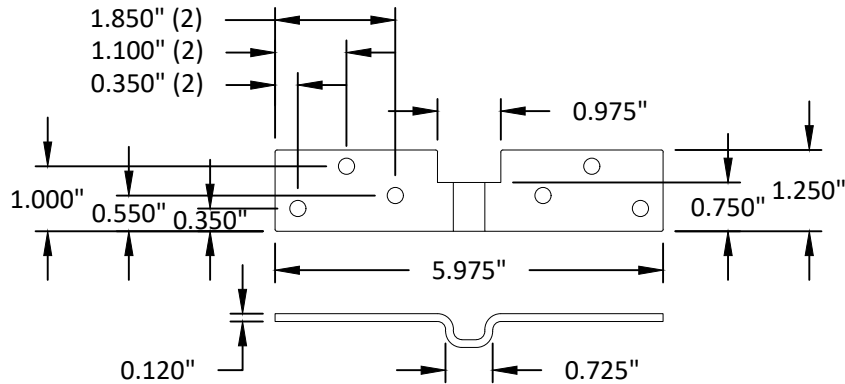
A
5
TYPICAL DETAIL
GUSSET PLATE NARROW



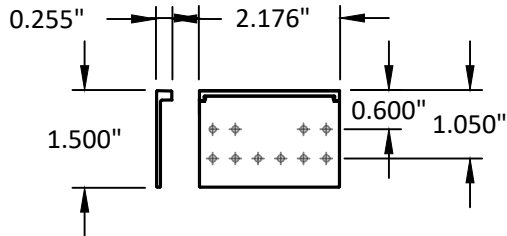
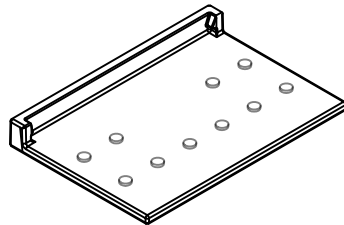
B
5
TYPICAL DETAIL
GUSSET, ADHESIVE, MULL



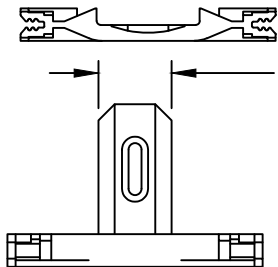
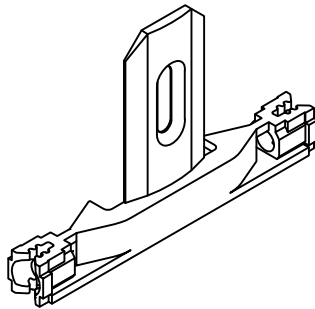
C
5
TYPICAL DETAIL
PLUG, LOCKING, ADHESIVE END



D
5
TYPICAL DETAIL
GUSSET, FACTORY JOIN



E
5
TYPICAL DETAIL
END CAP, MULL RENEWAL



F
5
TYPICAL DETAIL
FIXED BRACKET



G
5
TYPICAL DETAIL
EXTERIOR TRIM



H
5
TYPICAL DETAIL
INTERIOR TRIM



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COMPONENT DETAILS

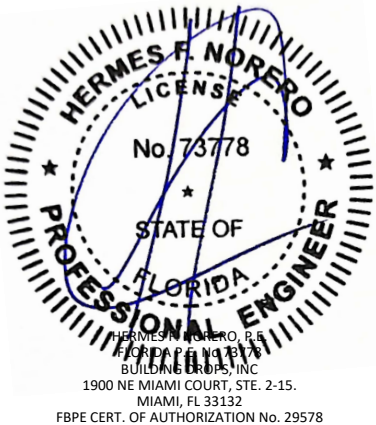
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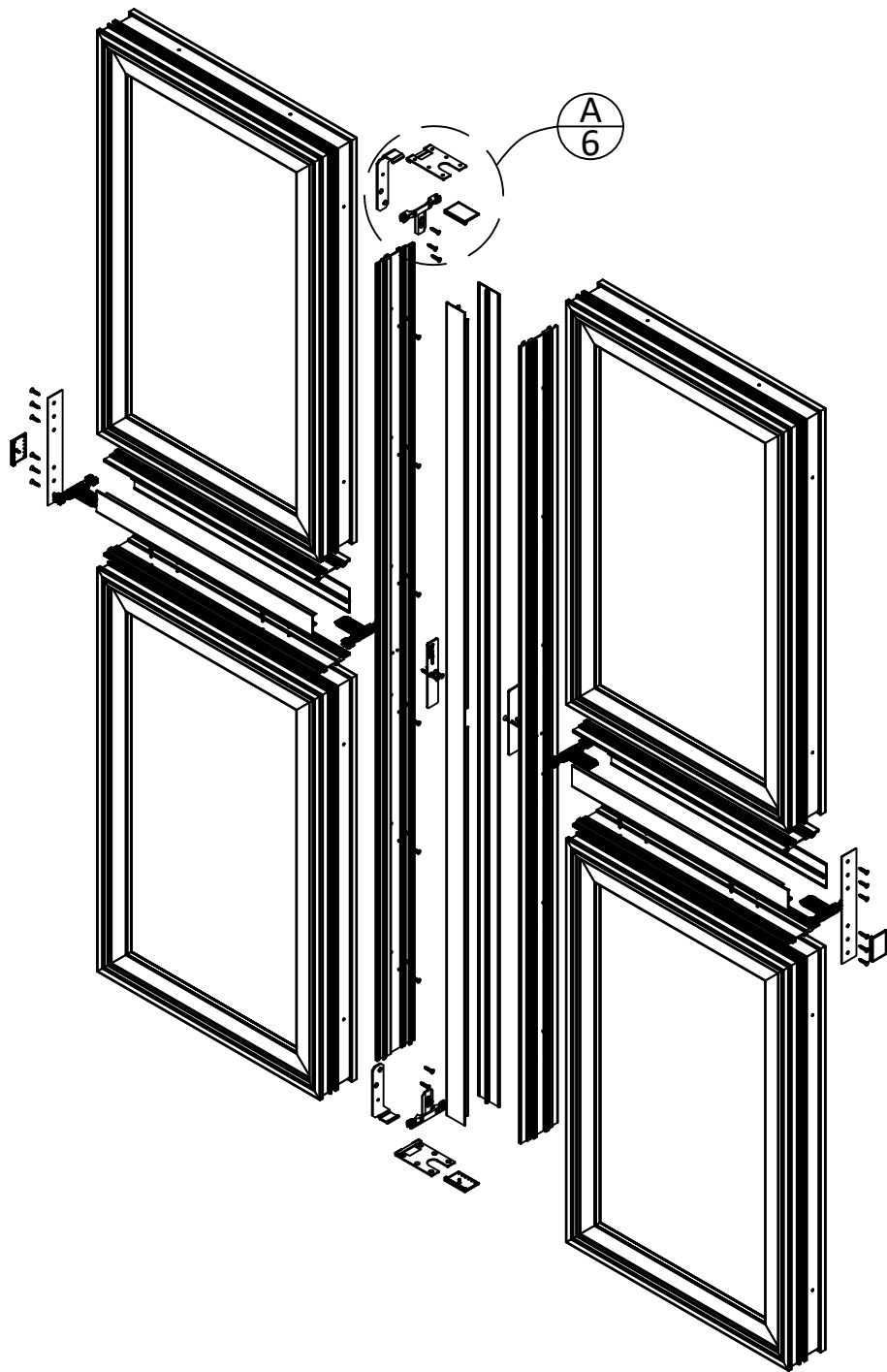
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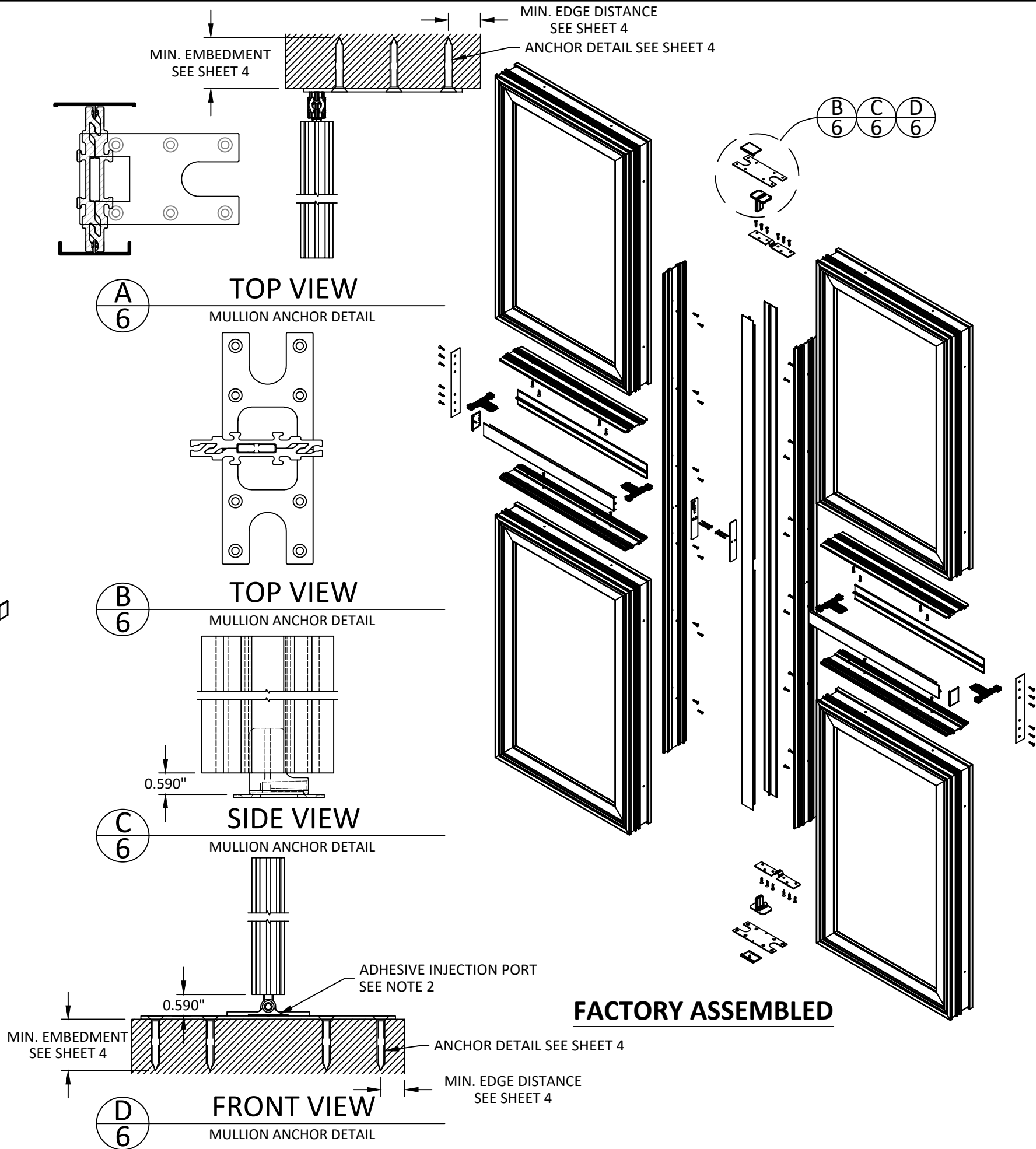
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FACTORY PREPPED
(JOIN IN OPENING)

NOTES:

- INTERSECTION JOINTS SECURED VIA FASTENERS DRIVEN BETWEEN MULLION JOINING PLATES/STRIPS AND ADJACENT WINDOW FRAME MEMBERS, PER RESPECTIVE MULLION ASSEMBLY SECTION DETAILS FOR RbA HP MULLION JOINING (REFERENCE THIS REPORT, SHEETS 4-5)
- ADHESIVE SHOULD BE PRESENT AT LOCATION POINTED OUT ON DETAIL D/6 TO VERIFY PROPER AMOUNT WAS USED. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR APPROVED ADHESIVE AND FURTHER DETAILS.
- THE PRE-DRILLED FRAME INSTALLATION HOLES IMMEDIATELY ADJACENT TO THE MULLIONS ARE NOT REQUIRED TO BE FILLED.



FACTORY ASSEMBLED



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(WZ3) (IMPACT)

MULLION ASSEMBLY AND ANCHOR DETAILS

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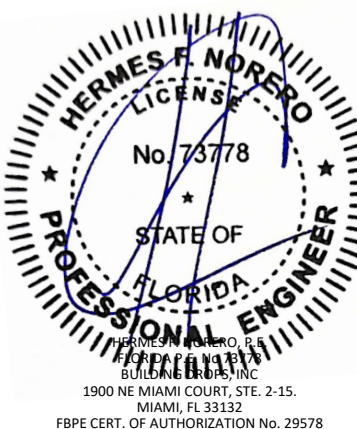
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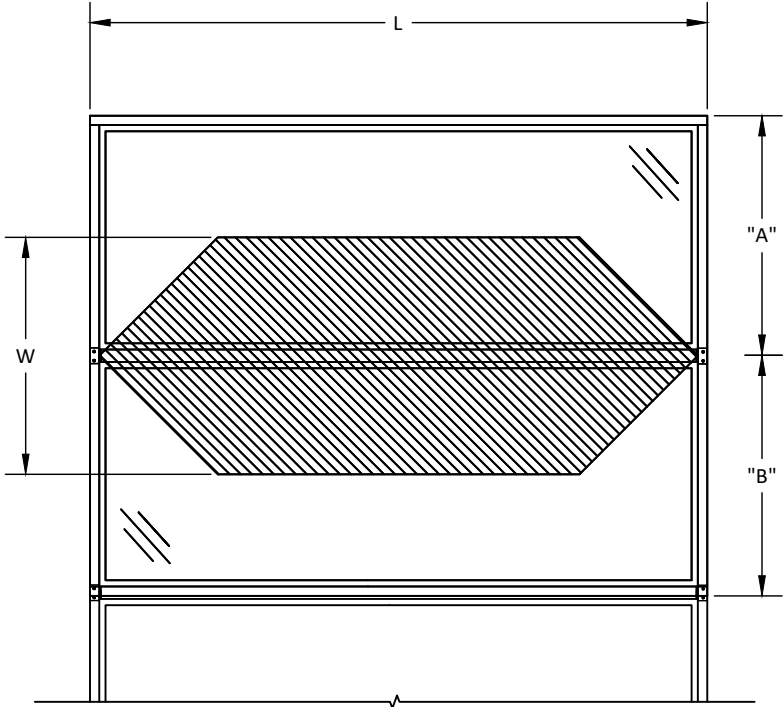
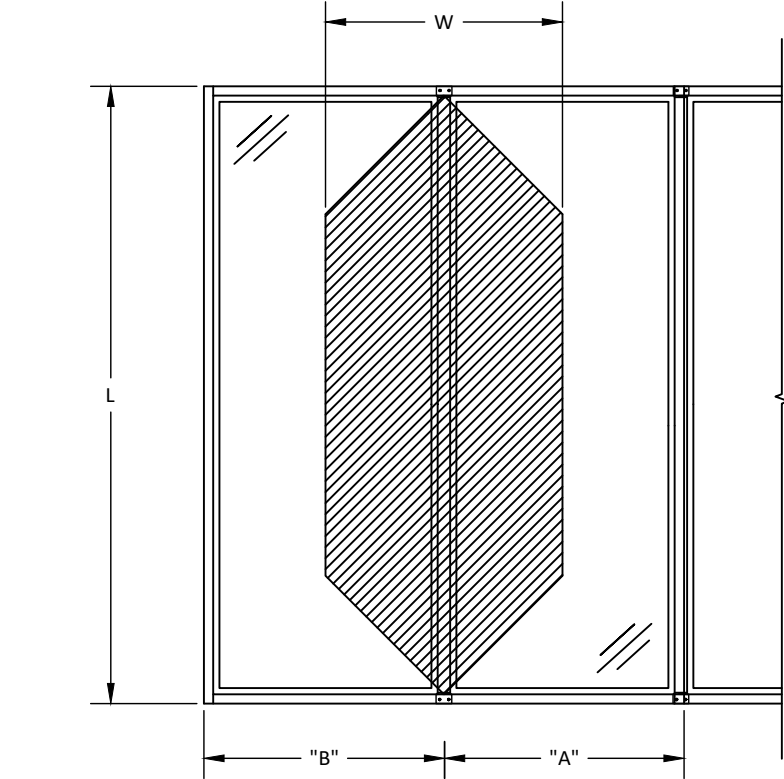
6

OF 8

HP FIBERGLASS MULL TABLE: ONE-WAY

L - MULL LENGTH (IN)	ONE-WAY MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)													
	W - TRIBUTARY WIDTH (IN)													
	24	30	36	42	48	54	60	66	72	78	84	90	96	
24	100.0	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	100.0	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	100.0	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	100.0	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	100.0	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	100.0	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	100.0	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	100.0	100.0	100.0	100.0	94.9	89.9	87.2	86.2	86.2	86.2	86.2	86.2	86.2	
72	100.0	100.0	86.4	76.9	70.4	65.9	63.1	61.5	60.9	60.9	60.9	60.9	60.9	
78	95.6	78.1	66.9	59.2	53.8	50.0	47.3	45.6	44.6	44.2	44.2	44.2	44.2	
84	76.1	62.0	52.9	46.6	42.1	38.9	36.5	34.8	33.7	33.1	32.9	32.9	32.9	
90	61.6	50.1	42.6	37.4	33.6	30.9	28.8	27.3	26.2	25.5	25.1	24.9	24.9	
96	50.6	41.1	34.8	30.5	27.3	25.0	23.2	21.9	20.9	20.1	19.7	19.4	19.3	
102	42.0	34.1	28.8	25.2	22.5	20.5	19.0	17.8	16.9	16.2	15.7	15.4	15.2	
108	35.3	28.6	24.2	21.1	18.8	17.1	15.7	-	-	-	-	-	-	
114	30.0	24.2	20.4	17.8	15.8	-	-	-	-	-	-	-	-	
120	25.6	20.7	17.5	15.2	-	-	-	-	-	-	-	-	-	
126	22.1	17.8	15.0	-	-	-	-	-	-	-	-	-	-	
132	19.2	15.5	-	-	-	-	-	-	-	-	-	-	-	
138	16.8	-	-	-	-	-	-	-	-	-	-	-	-	
144	-	-	-	-	-	-	-	-	-	-	-	-	-	

- NOTE:
- MULLION CHART APPLIES TO REINFORCED MULLION ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
 - MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
FACTORY JOINED AND FACTORY PREPPED INSTALLATION METHODS TO 2X WOOD, METAL STUD, GROUT FILLED OR HOLLOW BLOCK, OR CONCRETE.
 - TRIBUTARY WIDTH = $W = (A+B)/2$
 - REFER TO SHEET 4-6 FOR INSTALLATION DETAILS.
 - WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



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

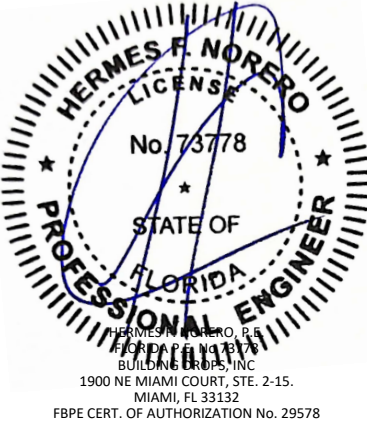
TITLE: RENEWAL BY ANDERSEN
HIGH PERFORMANCE MULLION
(WZ3) (IMPACT)
ONE-WAY MULLION TABLES AND
CONFIGURATIONS

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



REMARKS	BY	DATE
TEST STANDARD UPD	HJ	09/2025

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.

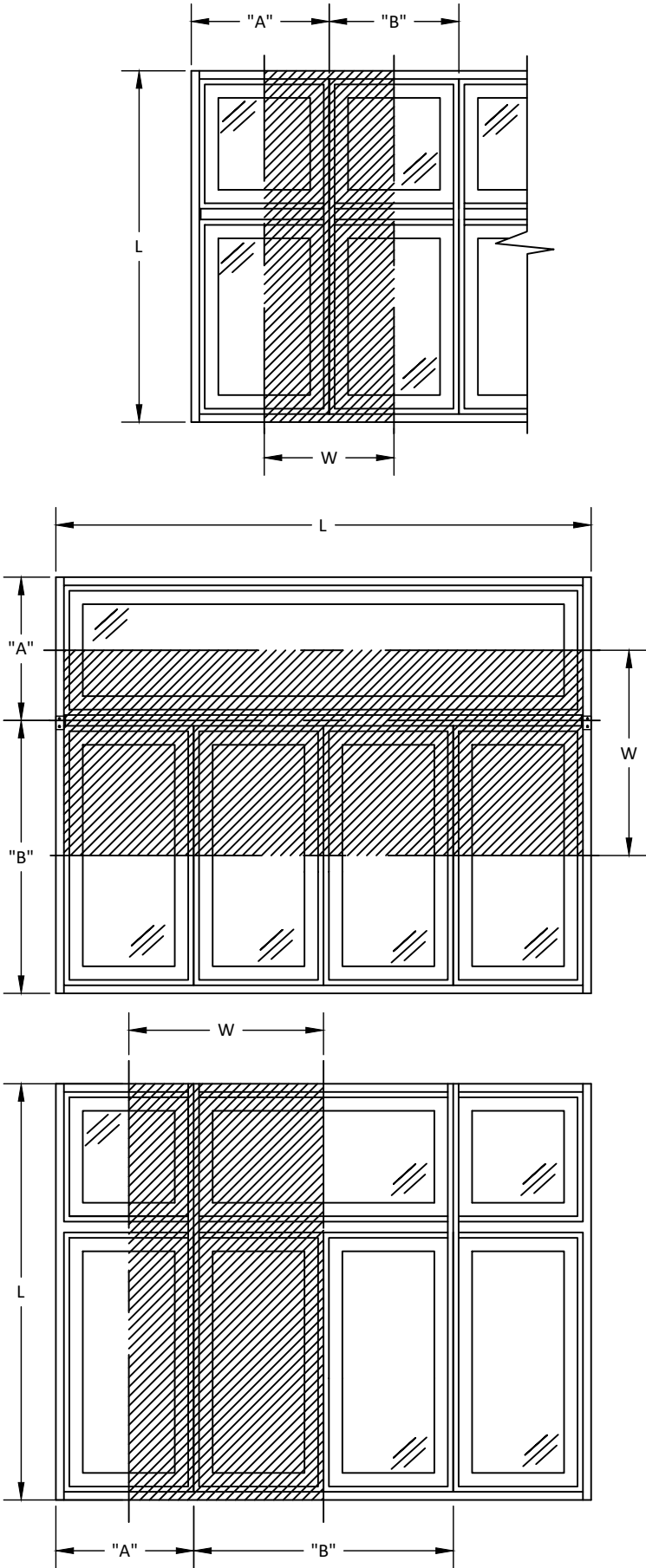


FL #:	FL19971
DATE:	11.30.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD295
SHEET:	7

HP FIBERGLASS MULL TABLE: TWO-WAY

L - MULL LENGTH (IN)	TWO-WAY MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)												
	W - TRIBUTARY WIDTH (IN)												
	24	30	36	42	48	54	60	66	72	78	84	90	96
24	100.0	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	100.0	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	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.0	90.0
42	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.9	88.2	82.3	77.1
48	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.2	90.0	83.1	77.1	72.0	67.5
54	100.0	100.0	100.0	100.0	100.0	100.0	96.0	87.3	80.0	73.8	68.6	64.0	60.0
60	100.0	100.0	100.0	100.0	100.0	89.8	80.8	73.5	67.3	62.2	57.7	53.9	50.5
66	100.0	100.0	100.0	86.7	75.9	67.4	60.7	55.2	50.6	46.7	43.4	40.5	37.9
72	100.0	93.5	77.9	66.8	58.4	52.0	46.8	42.5	39.0	36.0	33.4	31.2	29.2
78	91.9	73.6	61.3	52.5	46.0	40.9	36.8	33.4	30.6	28.3	26.3	24.5	23.0
84	73.6	58.9	49.1	42.1	36.8	32.7	29.4	26.8	24.5	22.7	21.0	19.6	18.4
90	59.9	47.9	39.9	34.2	29.9	26.6	23.9	21.8	20.0	18.4	17.1	16.0	-
96	49.3	39.5	32.9	28.2	24.7	21.9	19.7	17.9	16.4	15.2	-	-	-
102	41.1	32.9	27.4	23.5	20.6	18.3	16.4	-	-	-	-	-	-
108	34.6	27.7	23.1	19.8	17.3	15.4	-	-	-	-	-	-	-
114	29.4	23.6	19.6	16.8	-	-	-	-	-	-	-	-	-
120	25.2	20.2	16.8	-	-	-	-	-	-	-	-	-	-
126	21.8	17.4	-	-	-	-	-	-	-	-	-	-	-
132	19.0	15.2	-	-	-	-	-	-	-	-	-	-	-
138	16.6	-	-	-	-	-	-	-	-	-	-	-	-
144	-	-	-	-	-	-	-	-	-	-	-	-	-

- NOTE:
- MULLION CHART APPLIES TO REINFORCED MULLION ASSEMBLIES, WHEN MULLED IN TWO-WAY,'X' OR 'T' CONFIGURATIONS, WHERE 3.99" REINFORCED JOINING IS USED FOR CONTINUOUS/NON-CONTINUOUS MULL SPANS.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
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