

REILLY WINDOWS & DOORS

NON-REINFORCED WOOD MULLION

(WZ3) (IMPACT)

GENERAL NOTES:

- 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:
 - AAMA 450-20
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
 - ASTM 1886-13a
 - ASTM 1996-17
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN HVHZ AREAS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
- MULLION MATERIAL: MAHOGANY
- CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE 1X BUCKING, SHEATHING, & WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING:
 - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - GROUT-FILLED CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
 - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM WALL THICKNESS OF 54 MILS (16 GA.).
 - ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5).

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL AND INSTALLATION NOTES
2	MULL ASSEMBLY SECTIONS
3	MULL ASSEMBLY SECTIONS
4	INSTALLATION DETAILS
5	MULLION TABLES AND CONFIGURATIONS

PRODUCT ABBREVIATION KEY	
ABBREVIATION	PRODUCT NAME
AW =	AWNING WINDOW
DH =	DOUBLE HUNG WINDOW
FX A =	FIXED WINDOW A
FX B =	FIXED WINDOW B
FX C =	FIXED WINDOW C
CS =	CASEMENT WINDOW
CS IS =	INSWING FRENCH CASEMENT WINDOW
CS OS =	OUTSWING FRENCH CASEMENT WINDOW
TT =	TILT TURN WINDOW

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 SHEET 5.
- STEP 4: INSTALL MULLION BASED ON APPLICABLE SPECIFICATIONS & DETAILS SHOWN ON SHEET 4.

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TITLE:
NON-REINFORCED WOOD MULLION
(WZ3) (IMPACT)

GENERAL AND INSTALLATION NOTES

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

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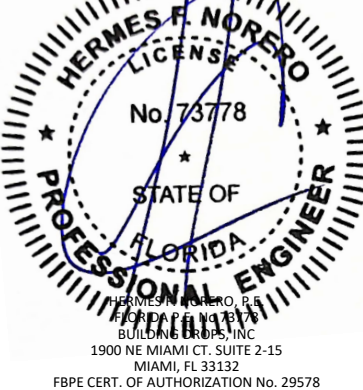
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REMARKS	BY	DATE
2026 FBC UPDATE	LS	06/26

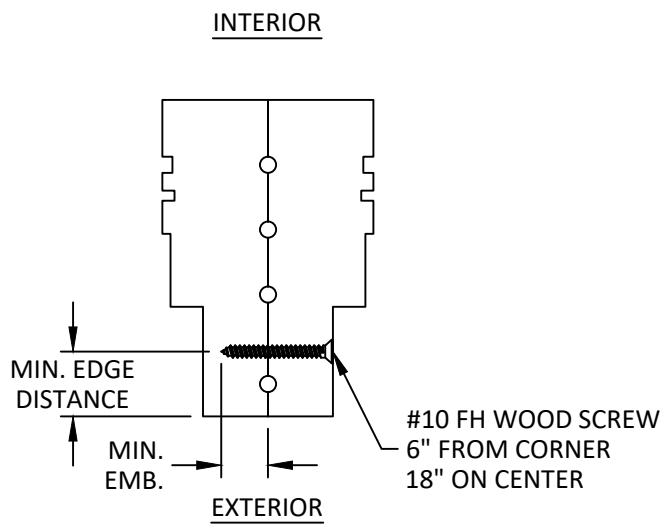
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.11 14:44:00 -03'00'



FL #:	
FL41913	
DATE: 01.11.23	
DWG. BY: MS	CHK. BY: HFN
SCALE: NTS	
DWG. #: RWD004	
SHEET: 1	REV. A
OF 5	

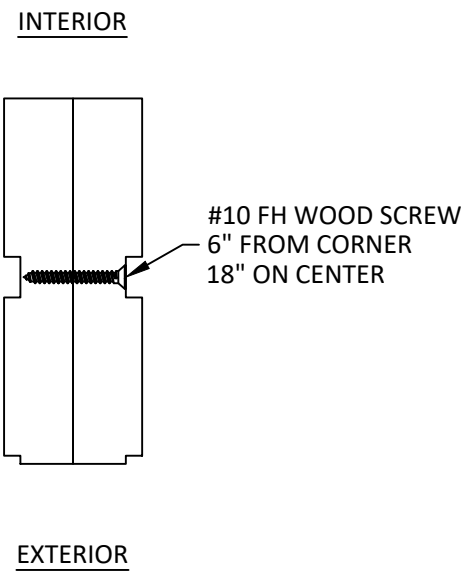
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A
2

AW TO AW

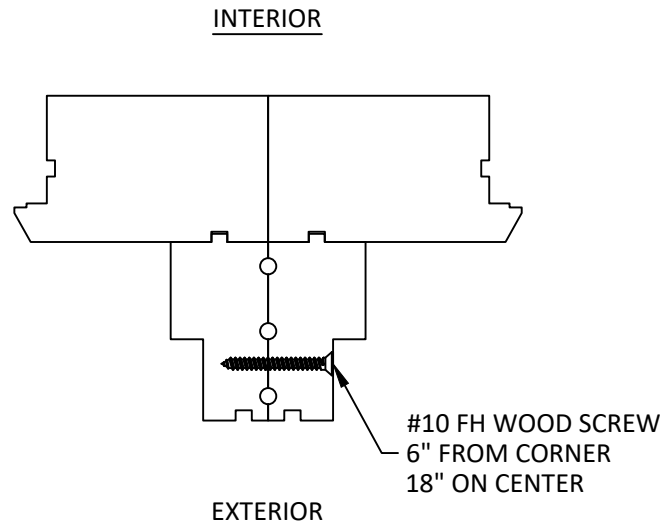
VERTICAL MULL



B
2

DH TO DH

VERTICAL MULL

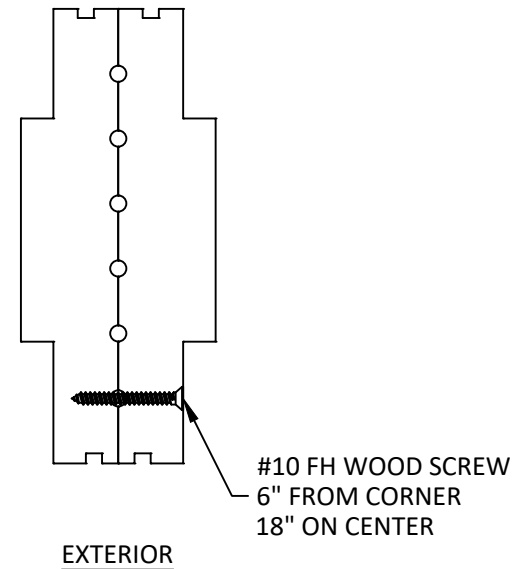


C
2

FX A/B TO FX A/B

VERTICAL MULL

INTERIOR



D
2

CS IS/OS TO CS IS/OS

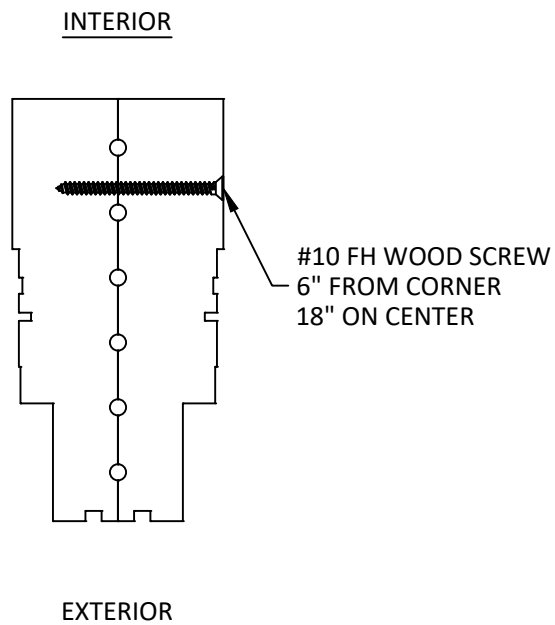
VERTICAL MULL

NOTES:
MULLIONS CAN BE MIX MATCHED BETWEEN
DIFFERENT WINDOW TYPES.
WHEN DIFFERENT WINDOWS ARE MULLED
TOGETHER, FRAME WITH SHORTER DEPTH SHALL
BE MODIFIED AND MATCH THE LONGER DEPTH.

THE #10 WOOD SCRWE USED TO CONNECT
MULLION SHALL HAS:

- MIN. 1" EDGE DISTANCE
- MIN 3/4" EMBEDMENT

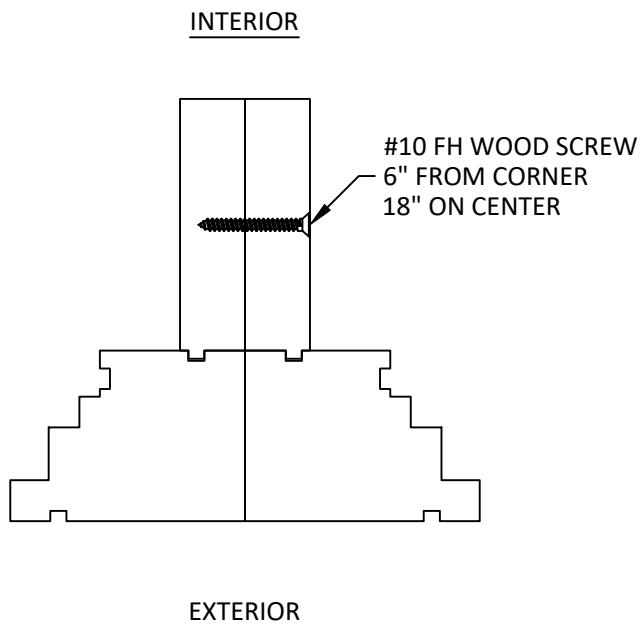
REFER TO REILLY'S APPROVAL FOR
CONSTRUCTION OF WINDOW FRAMES.



E
2

CS TO CS

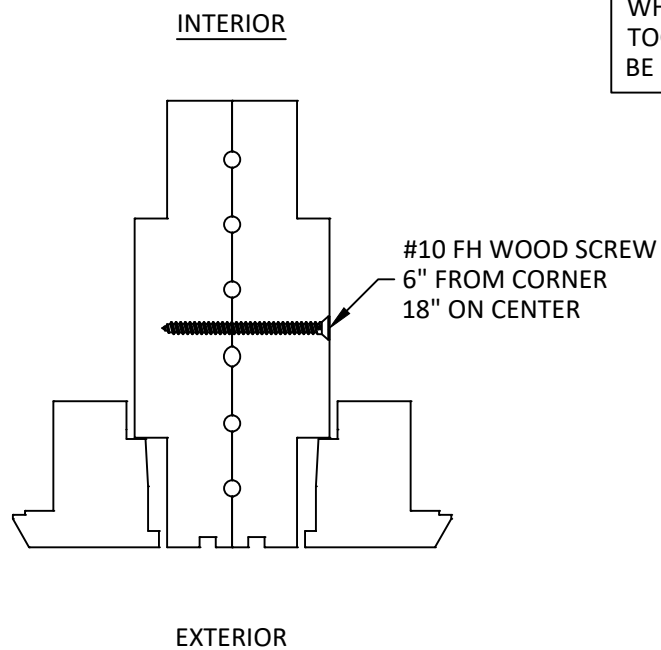
VERTICAL MULL



F
2

TT TO TT

VERTICAL MULL



G
2

FX C TO FX C

VERTICAL MULL

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TITLE:
NON-REINFORCED WOOD MULLION
(WZ3) (IMPACT)

MULL ASSEMBLY SECTIONS

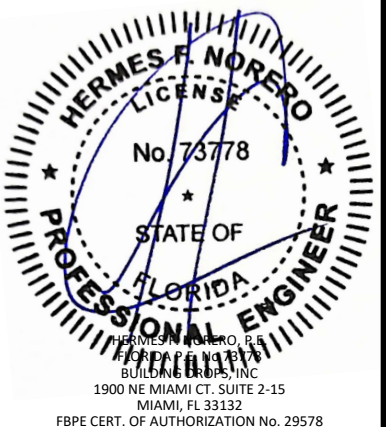
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BUILDING DROPS, INC.

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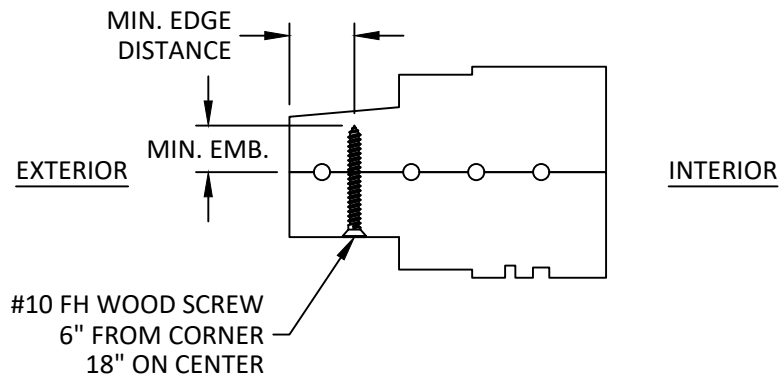
REMARKS	BY	DATE
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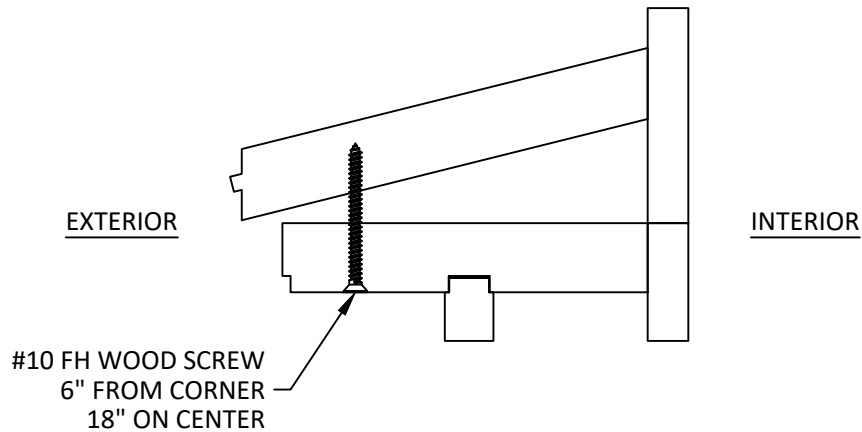


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2	A
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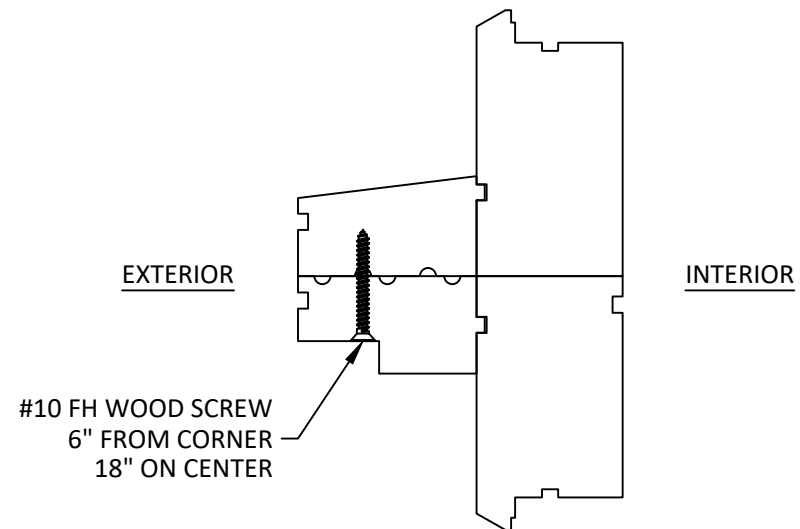
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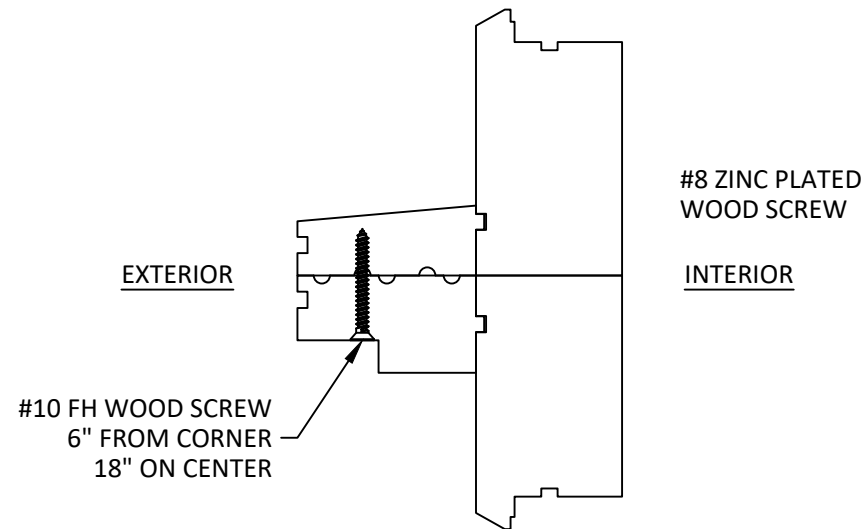
A
3
AW TO AW
HORIZONTAL MULL



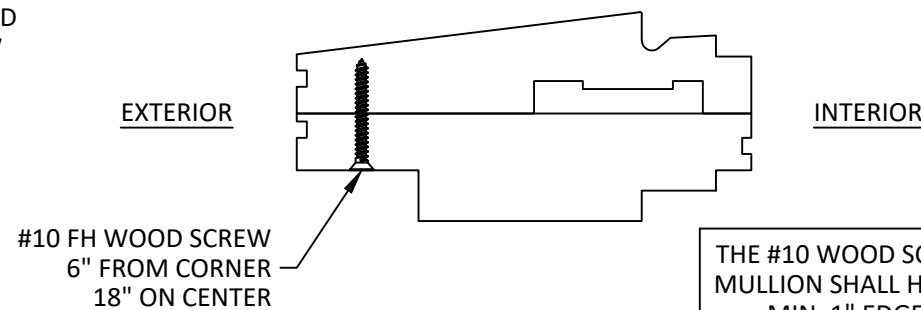
B
3
DH TO DH
HORIZONTAL MULL



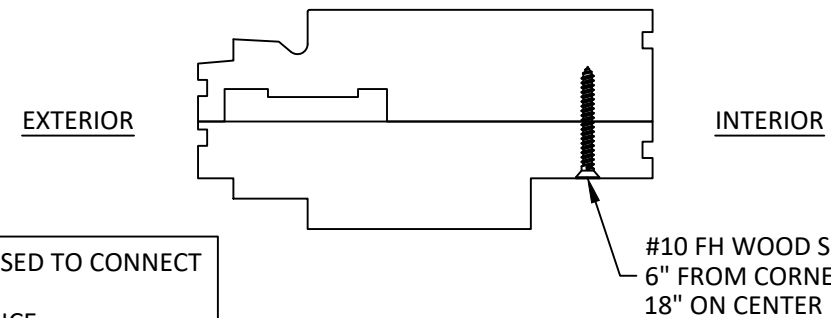
C
3
FX A TO FX A
HORIZONTAL MULL



D
3
FX B TO FX B
HORIZONTAL MULL



E
3
CS IS TO CS IS
HORIZONTAL MULL



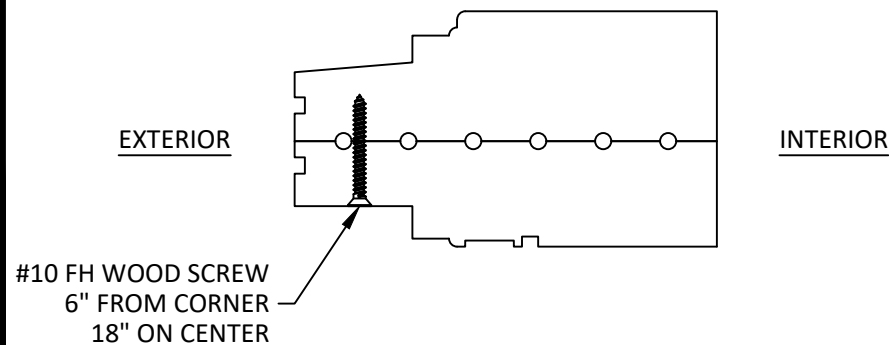
F
3
CS OS TO CS OS
HORIZONTAL MULL

REFER TO REILLY'S APPROVAL FOR CONSTRUCTION OF WINDOW FRAMES.

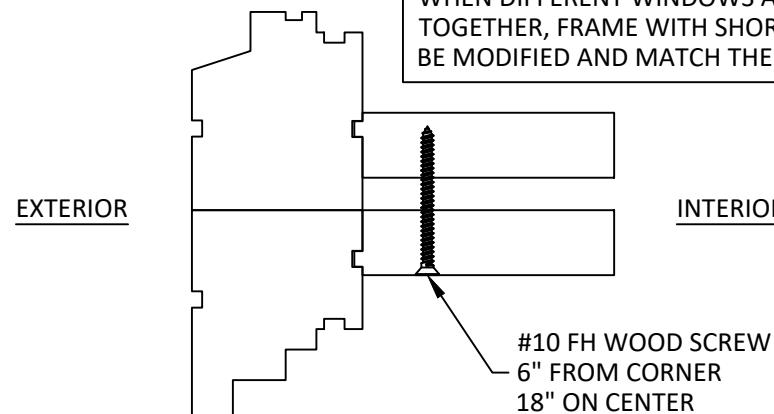
THE #10 WOOD SCREW USED TO CONNECT MULLION SHALL HAVE:

- MIN. 1" EDGE DISTANCE
- MIN 3/4" EMBEDMENT

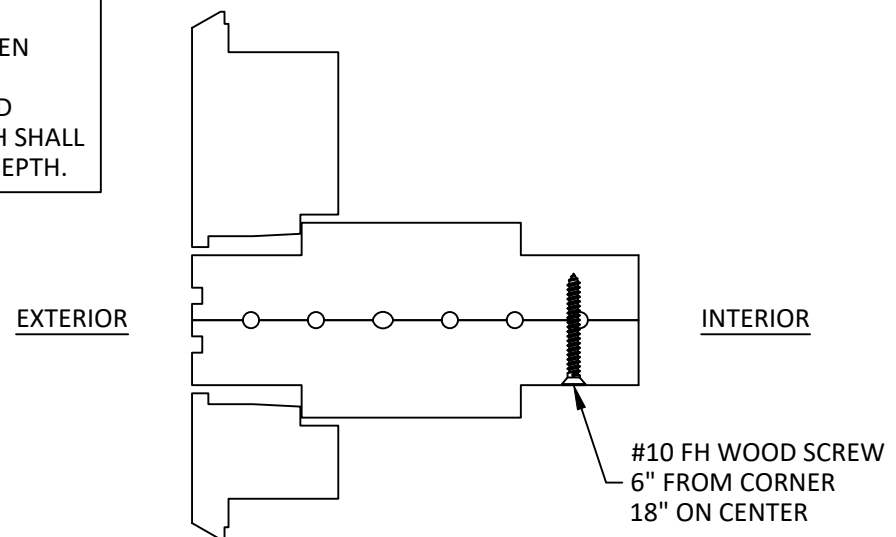
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G
3
CS TO CS
HORIZONTAL MULL



H
3
TT TO TT
HORIZONTAL MULL



I
3
FX C TO FX C
HORIZONTAL MULL

REILLY ARCHITECTURAL

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MULL ASSEMBLY SECTIONS

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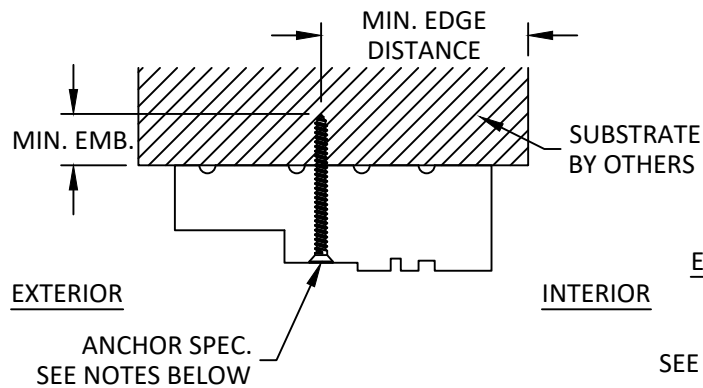
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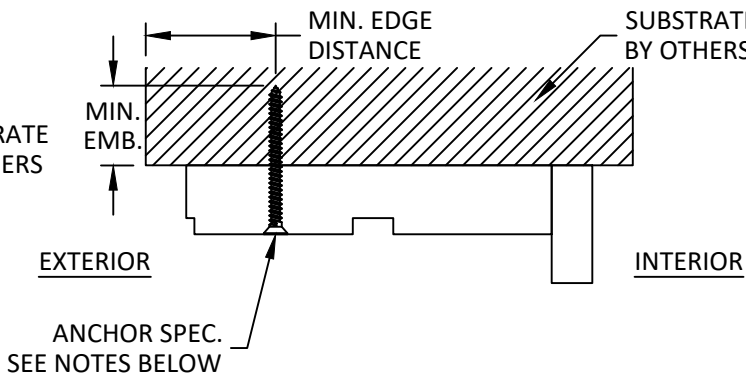
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A
4

INSTALLATION

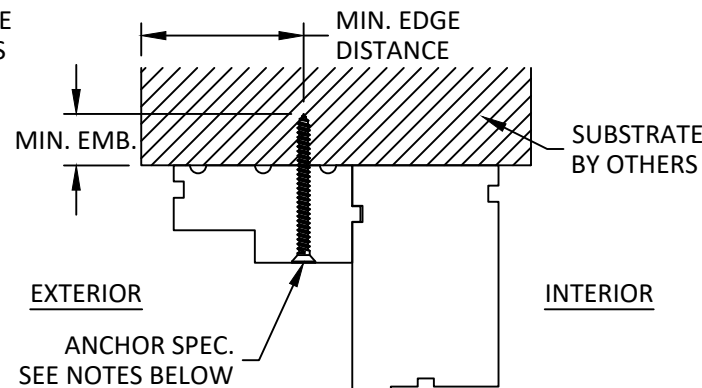
AWNING



B
4

INSTALLATION

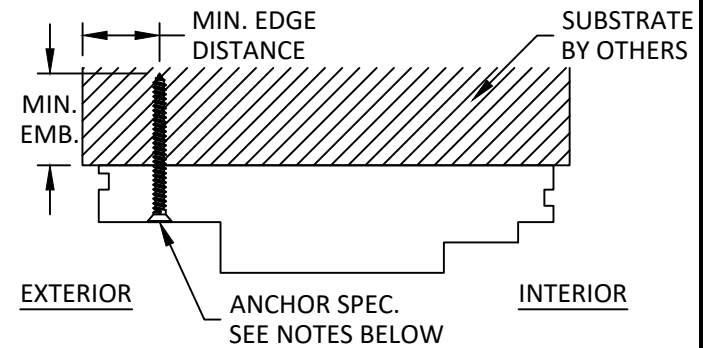
DOUBLE HUNG



C
4

INSTALLATION

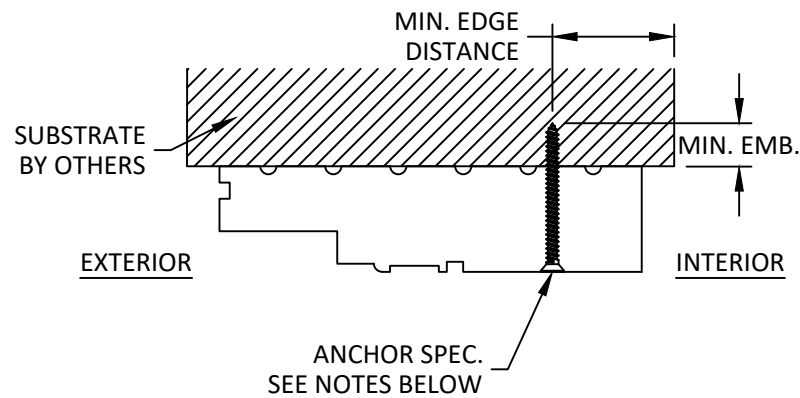
FIXED A/B



D
4

INSTALLATION

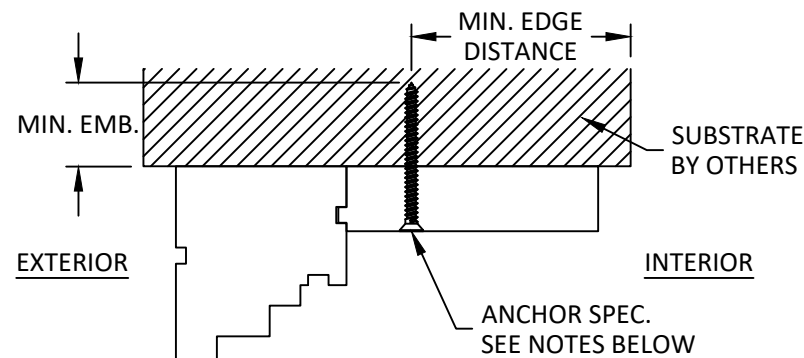
CASEMENT INSWING/OUTSWING



E
4

INSTALLATION

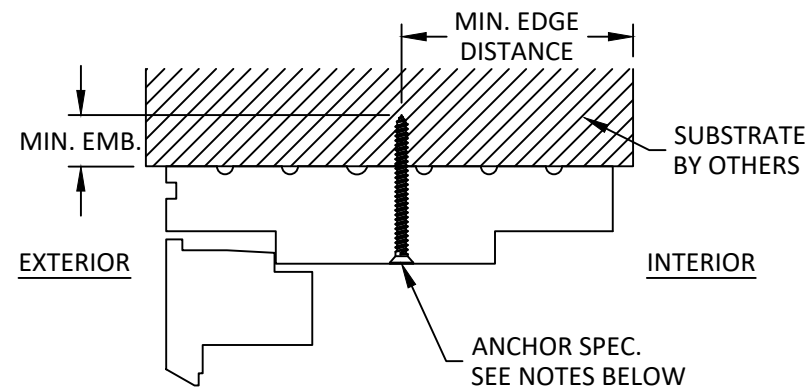
CASEMENT



F
4

INSTALLATION

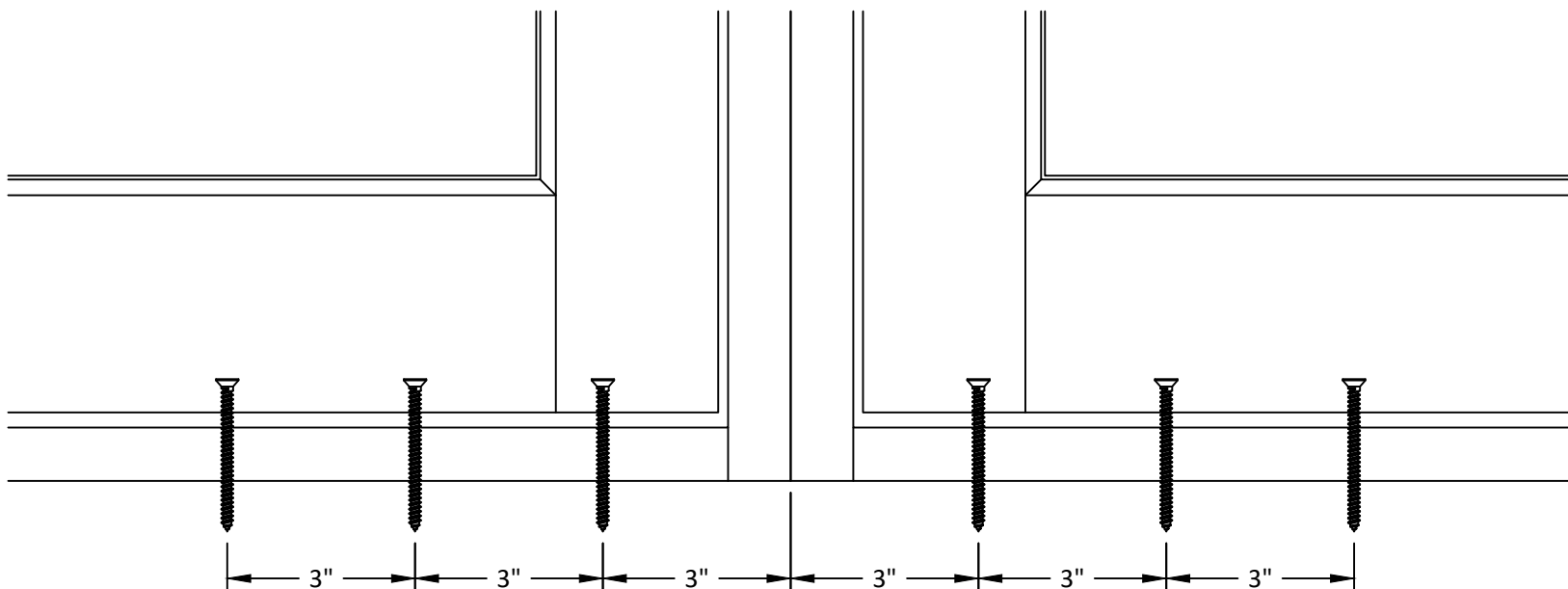
TILT TURN



G
4

INSTALLATION

FIXED C



INSTALLATION NOTES:

- FOR INSTALLATION THROUGH 2X BUCK, USE #10 FH WOOD SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - 1.1. MINIMUM EMBEDMENT OF 1-1/2" INTO WOOD
 - 1.2. MINIMUM EDGE DISTANCE OF 3/4"
- FOR INSTALLATION THROUGH STEEL/ALUMINUM FRAME, USE #10 FH SELF-DRILLING OR SELF- TAPPING, SAE GR. 5, TYPE SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - 2.1. THREE THREADS MINIMUM PENETRATION BEYOND STEEL/ALUMINUM FRAME
 - 2.2. MINIMUM EDGE DISTANCE OF 1/2"
- FOR INSTALLATION DIRECT TO CONCRETE/MASONRY SUBSTRATES OR THROUGH 1X BUCK TO CONCRETE/MASONRY SUBSTRATES, USE 3/16" FH ITW TAPCON ANCHORS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - 3.1. MINIMUM EMBEDMENT OF 1-1/4" INTO SUBSTRATE
 - 3.2. MINIMUM EDGE DISTANCE OF 2-1/2"
- SEE SHEET 1, INSTALLATION NOTE 7 FOR SUBSTRATE REQUIREMENTS.

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(WZ3) (IMPACT)

INSTALLATION DETAILS

PREPARED BY:
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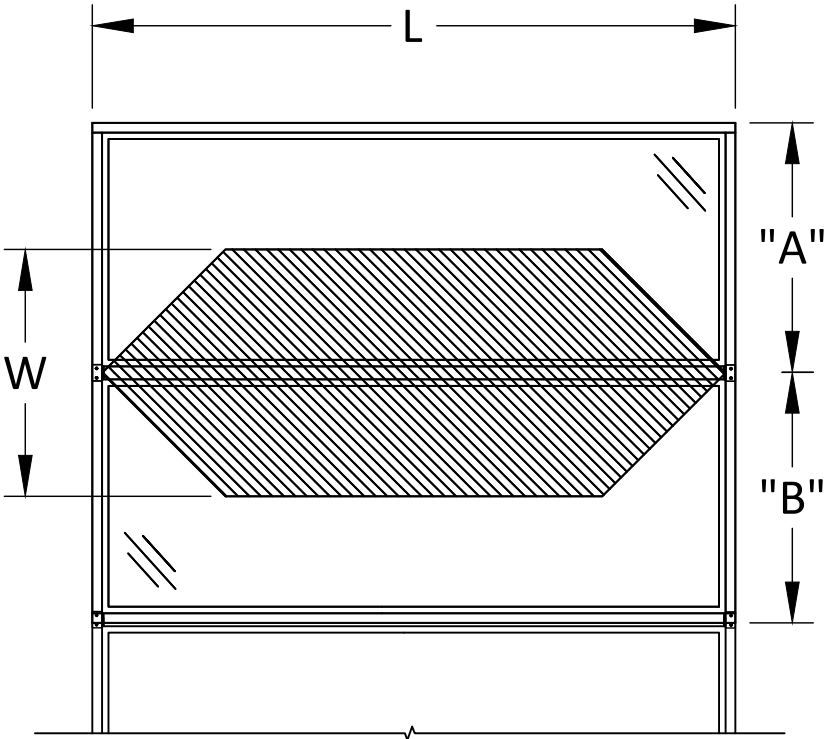
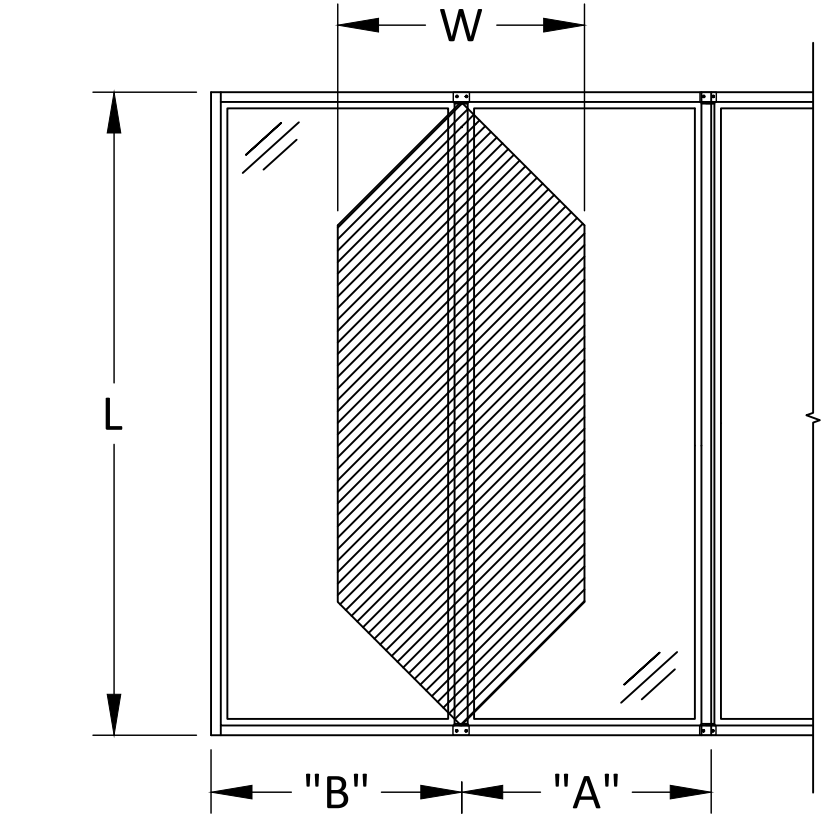
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SHEET:	4	REV. A
OF 5		

MULLION DESIGN PRESSURE TABLE (+/- PSF)																		
		TRIBUTARY WIDTH 'W' (IN.)																
		24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
SPAN LENGTH 'L' (IN.)	72	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	78	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	84	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	39.38	39.18	39.18	39.18	39.18	39.18	39.18	39.18
	90	40.00	40.00	40.00	40.00	40.00	40.00	38.40	36.75	35.35	34.25	33.59	33.37	33.37	33.37	33.37	33.37	33.37
	96	40.00	40.00	40.00	40.00	40.00	36.44	33.72	31.65	30.09	28.93	28.13	27.66	27.50	27.50	27.50	27.50	27.50
	102	40.00	40.00	40.00	36.85	32.95	30.02	27.79	26.07	24.75	23.75	23.02	22.52	22.23	22.13	22.13	22.13	22.13
	108	40.00	40.00	35.36	30.81	27.48	24.97	23.04	21.54	20.36	19.45	18.75	18.24	17.88	17.68	17.61	17.61	17.61
	114	40.00	35.47	29.93	26.03	23.17	21.01	19.33	18.01	16.97	16.15	15.50	15.01	-	-	-	-	-
	120	37.57	30.33	25.56	22.20	19.73	17.85	16.38	15.23	-	-	-	-	-	-	-	-	-
	126	32.40	26.14	22.00	19.09	16.94	15.30	-	-	-	-	-	-	-	-	-	-	-
	132	28.14	22.69	19.08	16.53	-	-	-	-	-	-	-	-	-	-	-	-	-
	138	24.60	19.82	16.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	144	21.63	17.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- NOTE:
- MULLION CHART APPLIES TO BACK-TO BACK WOOD MULLION ASSEMBLIES, REFER TO SHEETS 2 & 3 FOR DETAILS.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 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.
 - TRIBUTARY WIDTH 'W' = (A+B)/2
 - REFER TO SHEET 4 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.



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TITLE:
NON-REINFORCED WOOD MULLION
(WZ3) (IMPACT)

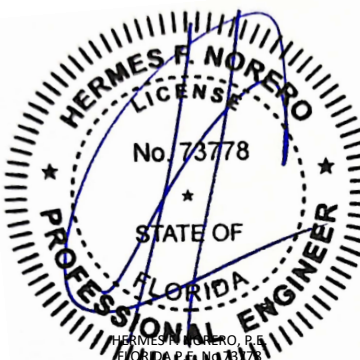
MULLION TABLES AND CONFIGURATIONS

PREPARED BY:
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BUILDING DROPS

REMARKS	BY	DATE
2026 FBC UPDATE	LS	06/26

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.



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FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL41913

DATE:

01.11.23

DWG. BY:

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