

2/8/2023 10:57 AM

s:\projects\reilly windows & doors (architectural)\02-21-0241 - fbc submittal - wood mullions - 3 groups back to back\dwgs\rwd004.dwg

# REILLY WINDOWS & DOORS

## NON-REINFORCED WOOD MULLION

### (WZ3) (IMPACT)

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:
  - AAMA 450-10
  - AAMA/WDMA/CSA 101/I.S.2/A440-17
  - ASTM 1886-13a
  - ASTM 1996-17
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 HVHZ AREAS.
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: MAHOGANY
8. CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.

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.).
  - F. 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.

**REILLY**  
ARCHITECTURAL

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

GENERAL AND INSTALLATION NOTES

PREPARED BY:

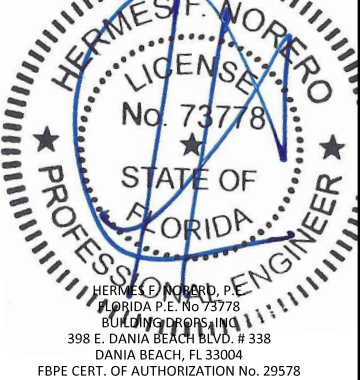
**BUILDING DROPS, INC.**  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

**B.D.**  
BUILDING DROPS

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Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2023.02.12 15:52:45 -05'00'



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

FL #:  
**FL41913**

DATE: **01.11.23**

DWG. BY: **MS**CHK. BY: **HFN**

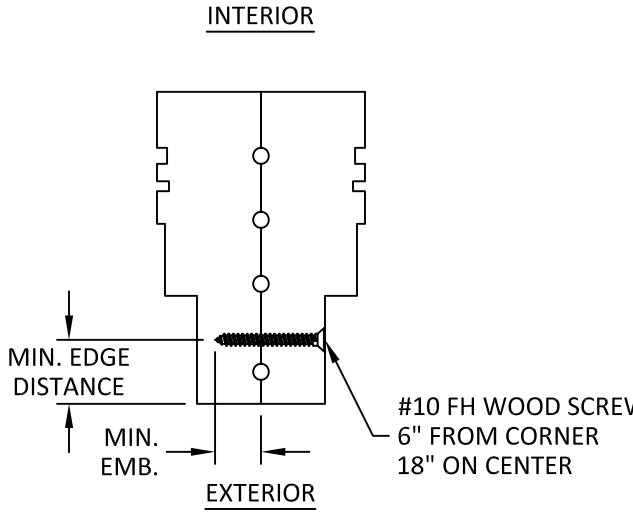
SCALE: **NTS**

DWG. #: **RWD004**

SHEET:  
**1**  
OF 5

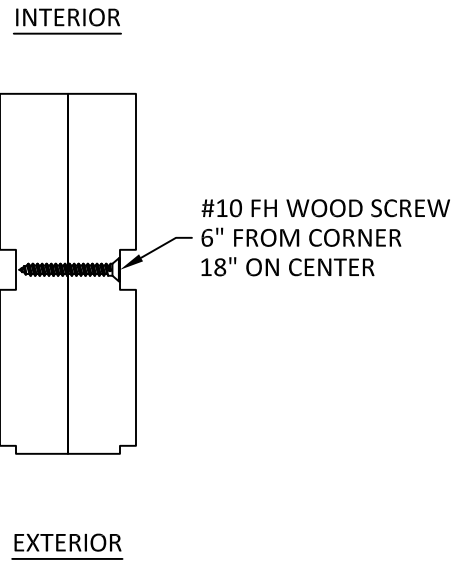
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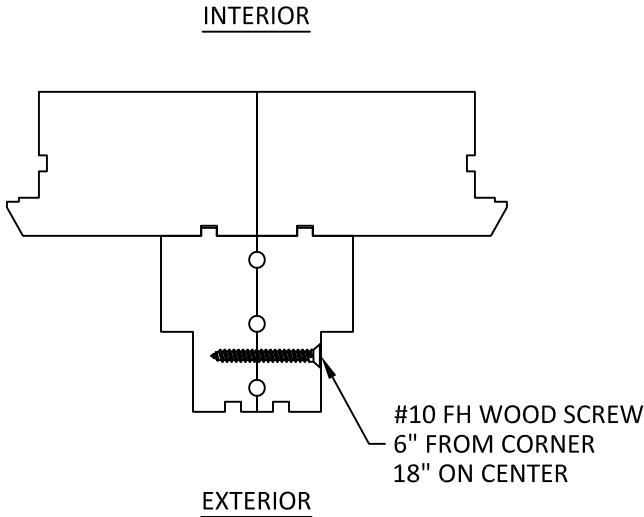
A  
2

AW TO AW  
VERTICAL MULL



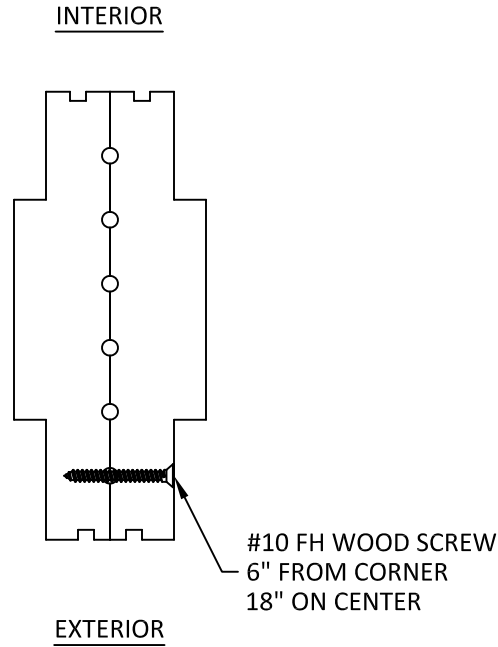
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DH TO DH  
VERTICAL MULL



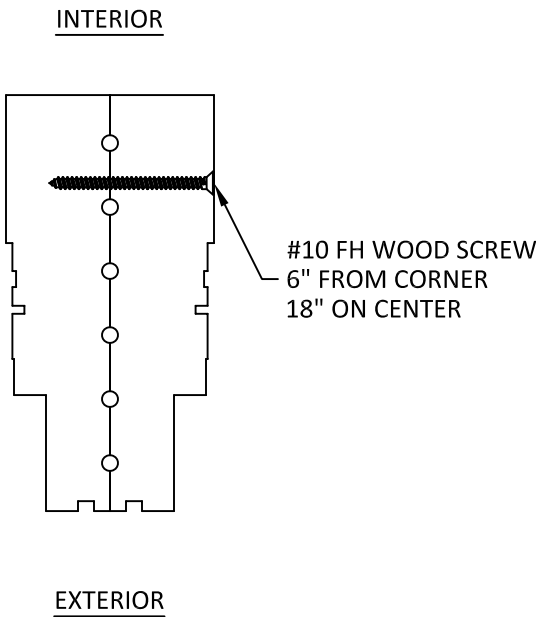
C  
2

FX A/B TO FX A/B  
VERTICAL MULL



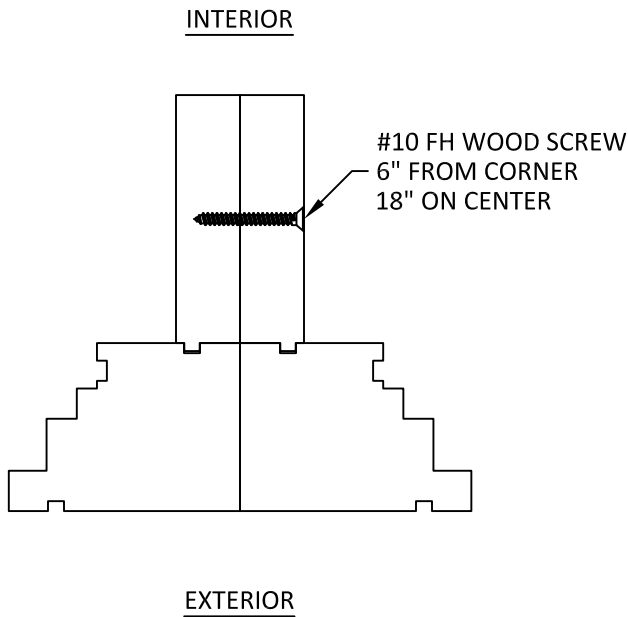
D  
2

CS IS/OS TO CS IS/OS  
VERTICAL MULL



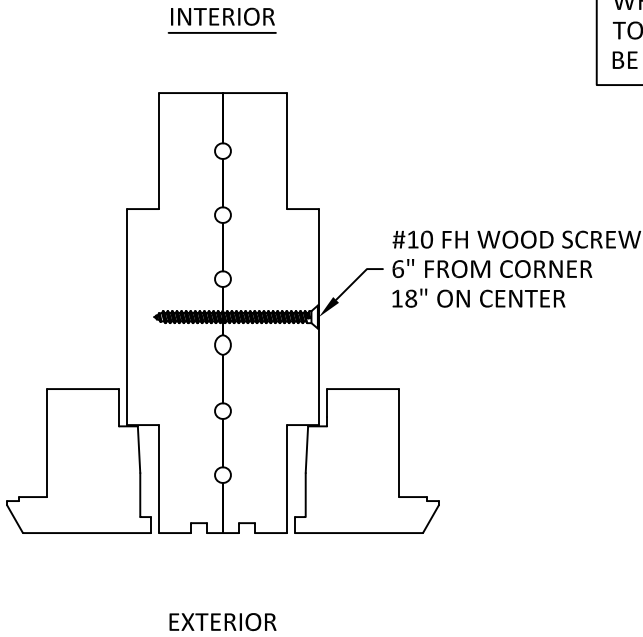
E  
2

CS TO CS  
VERTICAL MULL



F  
2

TT TO TT  
VERTICAL MULL



G  
2

FX C TO FX C  
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.

**REILLY**  
ARCHITECTURAL

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P 631-208-0710 F 631-208-0711 www.reillyarch.com

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

MULL ASSEMBLY SECTIONS

PREPARED BY:

BUILDING DROPS, INC.

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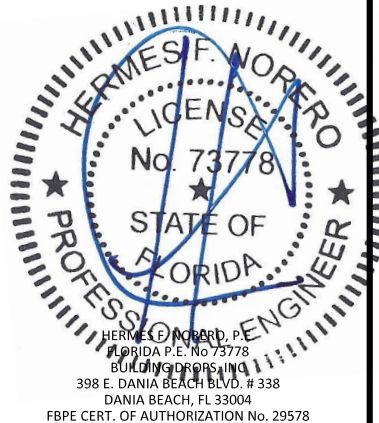
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FL #:

FL41913

DATE: 01.11.23

DWG. BY: MS  
CHK. BY: HFN

SCALE: NTS

DWG. #: RWD004

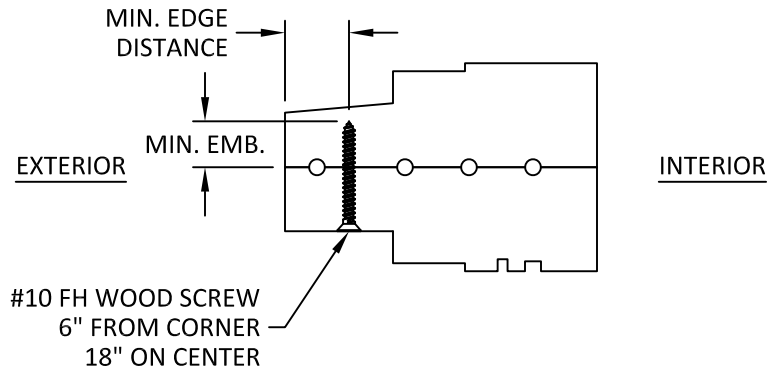
SHEET:

2

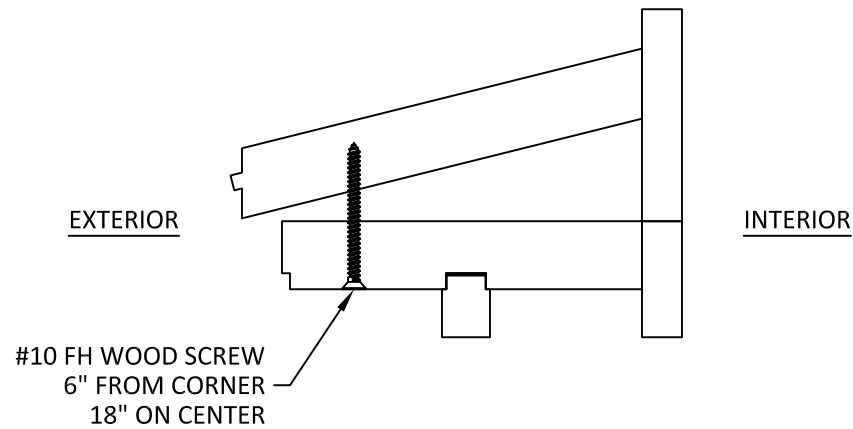
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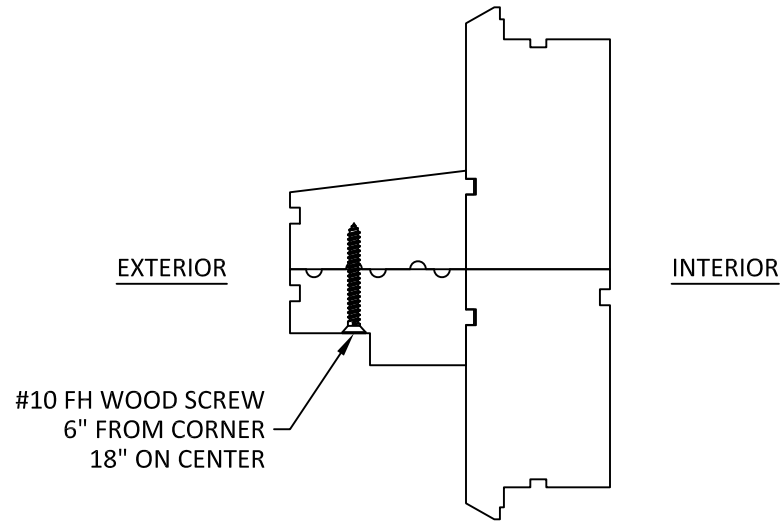
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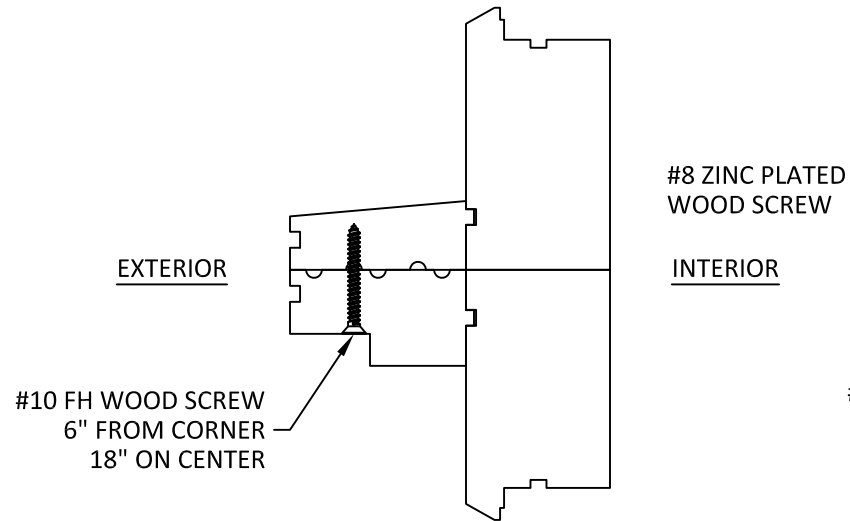
**A**  
**3**  
**AW TO AW**  
HORIZONTAL MULL



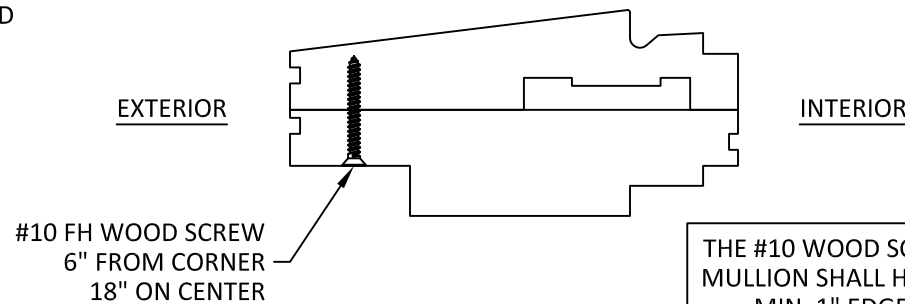
**B**  
**3**  
**DH TO DH**  
HORIZONTAL MULL



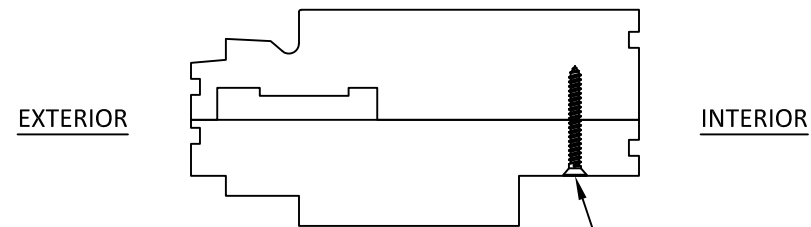
**C**  
**3**  
**FX A TO FX A**  
HORIZONTAL MULL



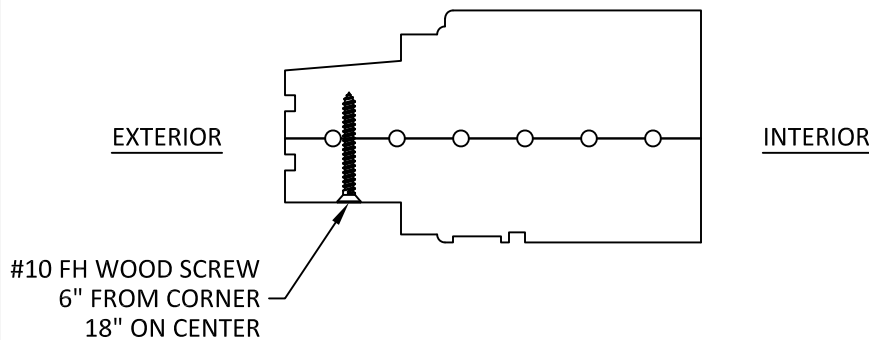
**D**  
**3**  
**FX B TO FX B**  
HORIZONTAL MULL



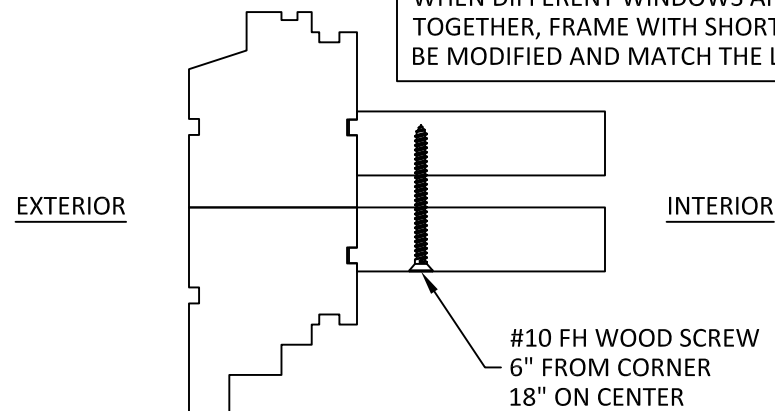
**E**  
**3**  
**CS IS TO CS IS**  
HORIZONTAL MULL



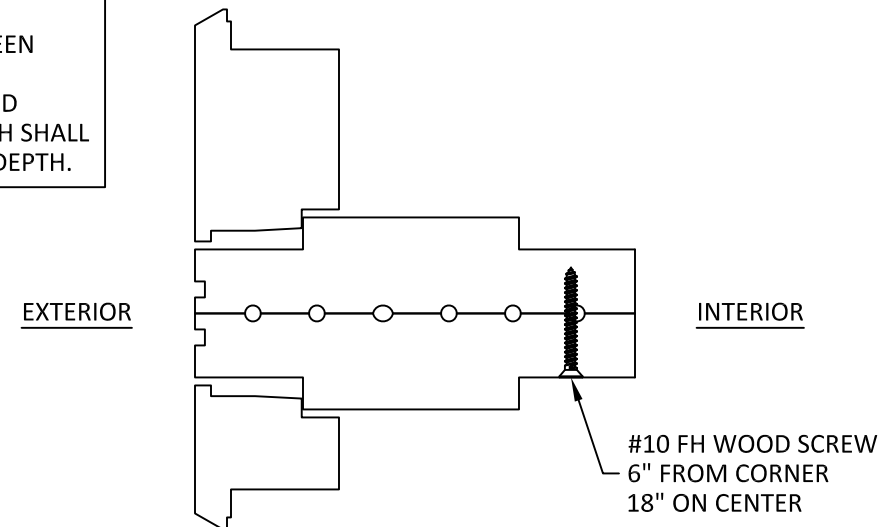
**F**  
**3**  
**CS OS TO CS OS**  
HORIZONTAL MULL



**G**  
**3**  
**CS TO CS**  
HORIZONTAL MULL



**H**  
**3**  
**TT TO TT**  
HORIZONTAL MULL



**I**  
**3**  
**FX C TO FX C**  
HORIZONTAL MULL

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

THE #10 WOOD SCRWE USED TO CONNECT  
MULLION SHALL HAS:  
• MIN. 1" EDGE DISTANCE  
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NOTES:  
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**ARCHITECTURAL**

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(WZ3) (IMPACT)

MULL ASSEMBLY SECTIONS

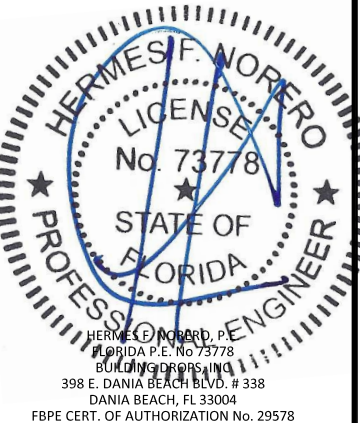
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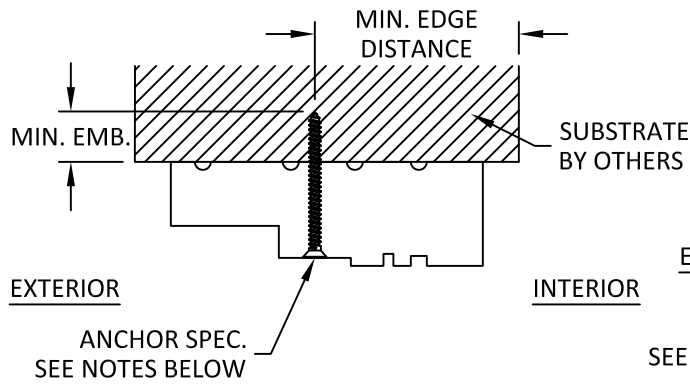
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| DWG. BY: | MS | CHK. BY: | HFN |
| SCALE:   |    | NTS      |     |
| DWG. #:  |    | RWD004   |     |
| SHEET:   |    | 3        |     |
|          |    | OF 5     |     |

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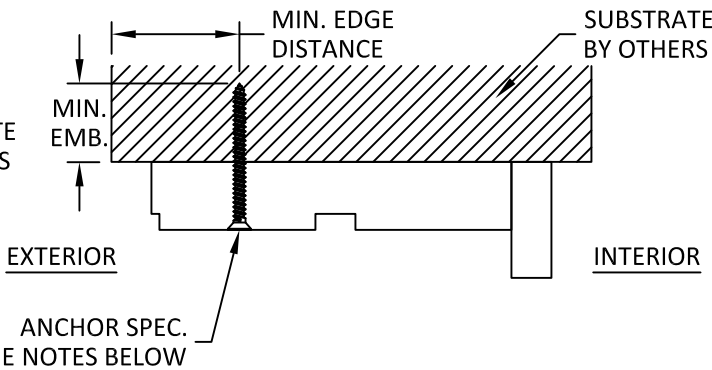
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A  
4

## INSTALLATION

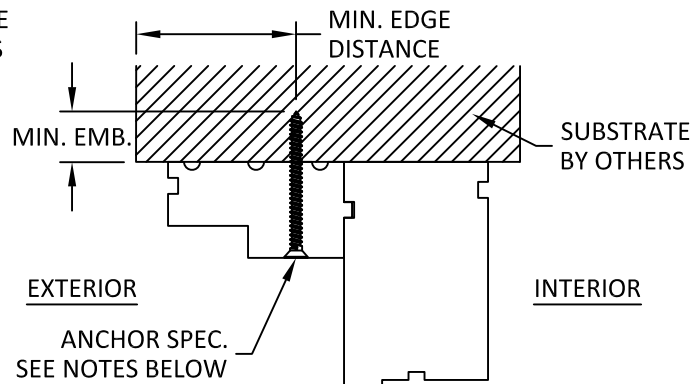
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B  
4

## INSTALLATION

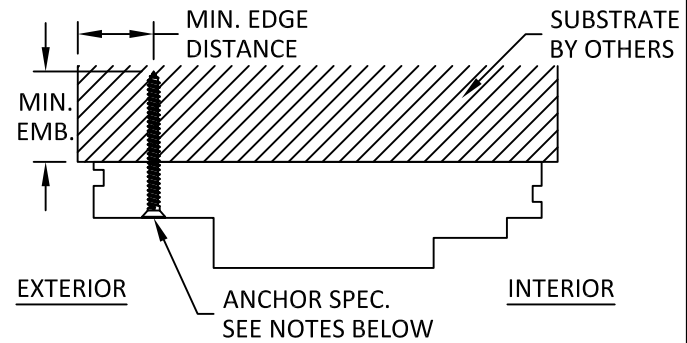
DOUBLE HUNG



C  
4

## INSTALLATION

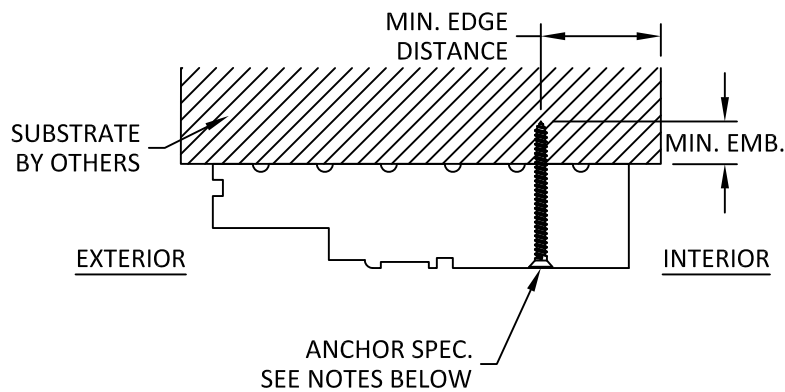
FIXED A/B



D  
4

## INSTALLATION

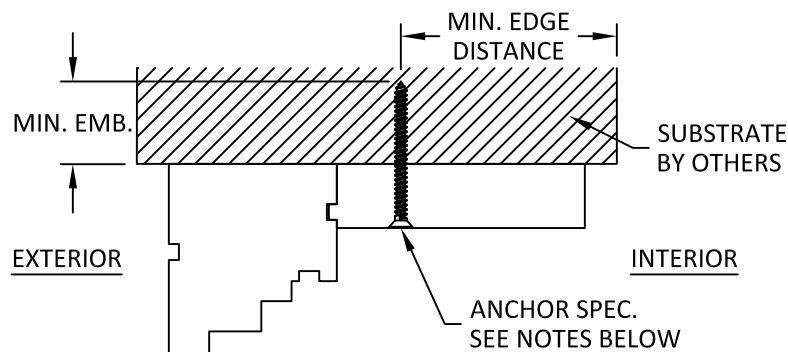
CASEMENT INSWING/OUTSWING



E  
4

## INSTALLATION

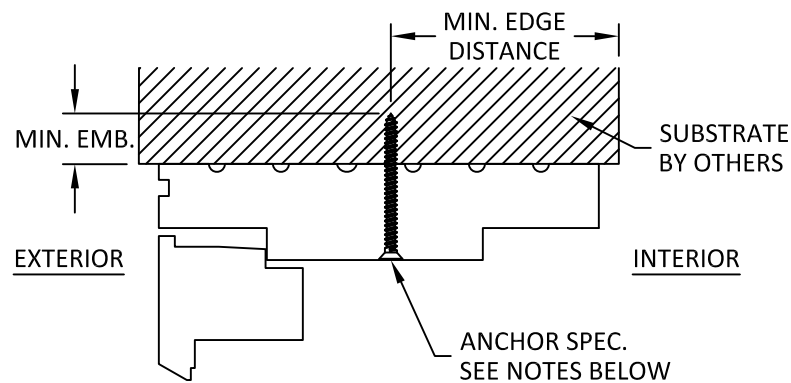
CASEMENT



F  
4

## INSTALLATION

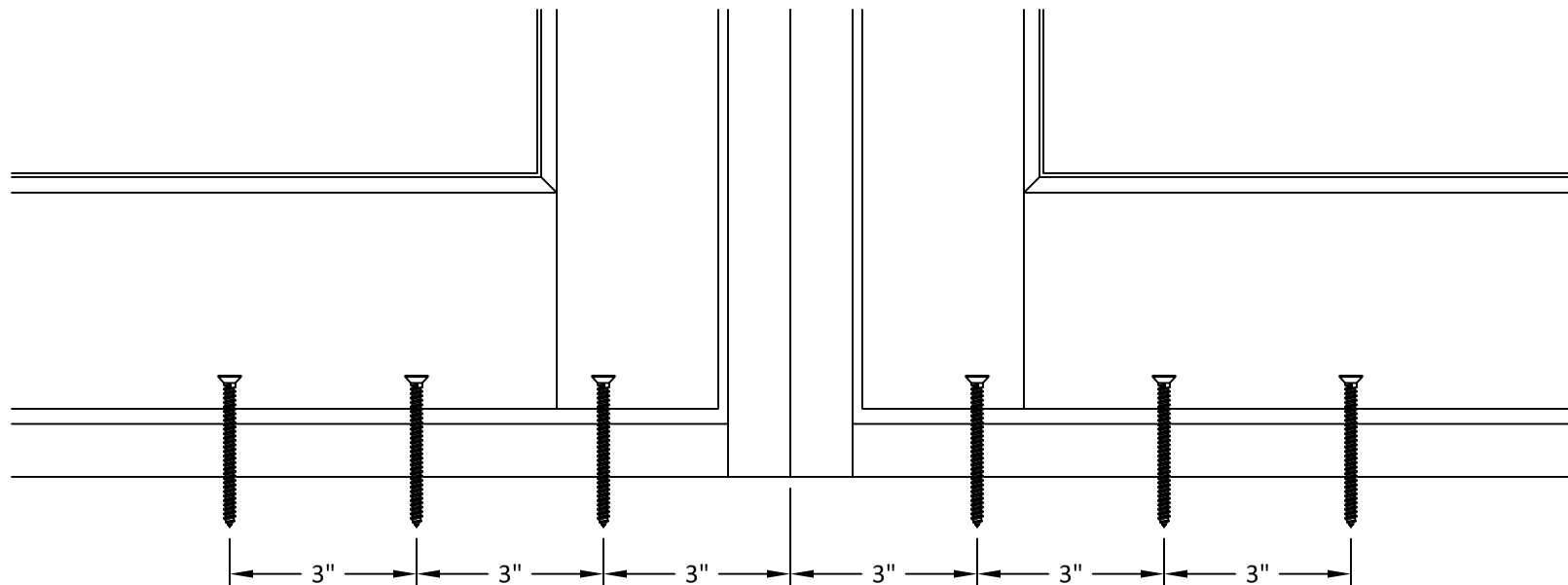
TILT TURN



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.

# REILLY

## ARCHITECTURAL

901 Burman Blvd, Building 701 Calverton, NY 11933  
P 631-208-0710 F 631-208-0711 www.reillyarch.com

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

INSTALLATION DETAILS

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

PH: (954)399-8478

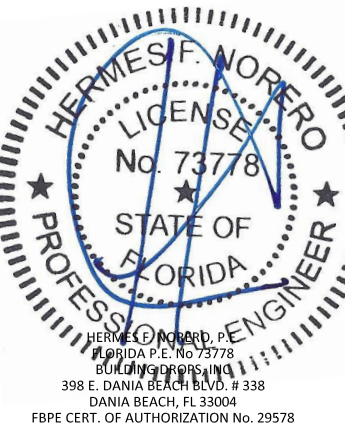
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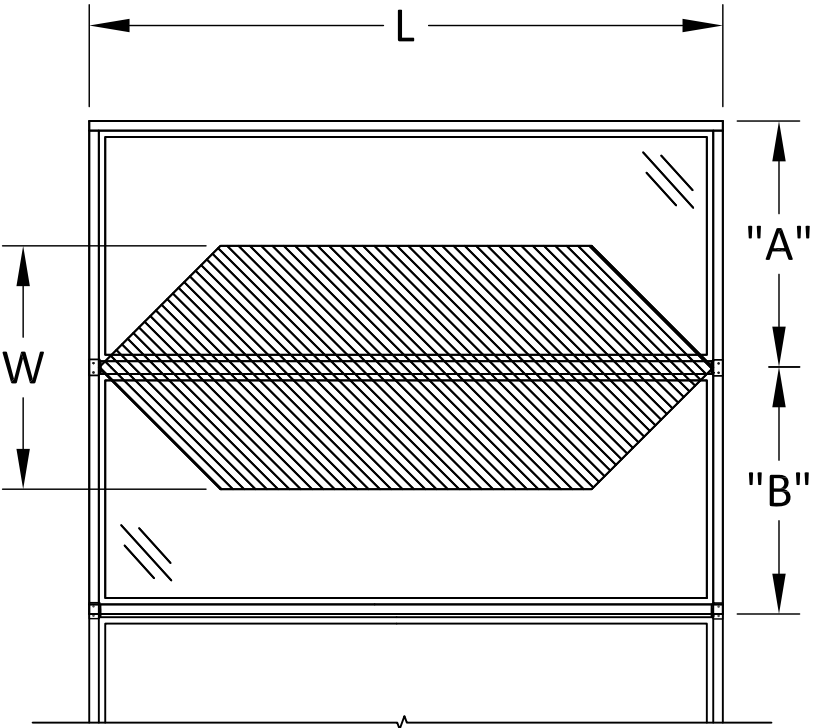
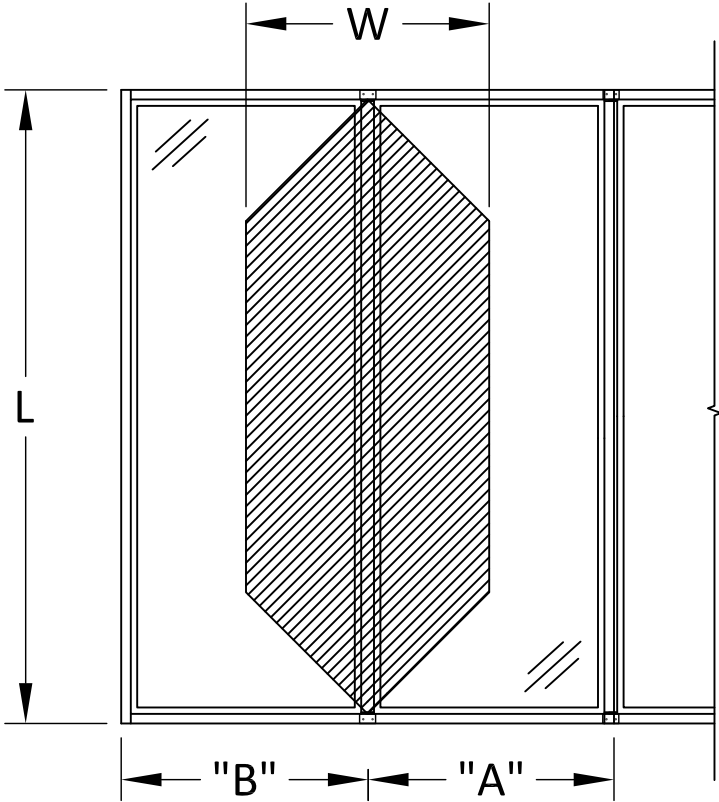
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| FL #:    | FL41913  |
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| DWG. BY: | MS       |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | RWD004   |
| SHEET:   | 4        |
|          | OF 5     |

| 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.



REILLY

ARCHITECTURAL

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P 631-208-0710 F 631-208-0711 www.reillyarch.com

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

MULLION TABLES AND CONFIGURATIONS

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

B.D.

BUILDING DROPS

| REMARKS | BY | DATE |
|---------|----|------|
|         |    |      |
|         |    |      |
|         |    |      |
|         |    |      |

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

HERMES F. NORRIS

LICENSED PROFESSIONAL ENGINEER

No. 73778

STATE OF FLORIDA

HERMES F. NORRIS, P.E.

FLORIDA P.E. No. 73778

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD. # 338

DANIA BEACH, FL 33004

FBPE CERT. OF AUTHORIZATION No. 29578

|          |          |
|----------|----------|
| FL #:    | FL41913  |
| DATE:    | 01.11.23 |
| DWG. BY: | MS       |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | RWD004   |
| SHEET:   | 5        |