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ARCADIA CUSTOM

STRUCTURAL MULLION

(WZ3)(IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE 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).
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 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.), MIN. Fy = 33 KSI
 - ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5)

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/WDMA/CSA 101/I.S.2/A440-11
 - ASTM E1886-13a
 - ASTM E1996-23
- 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.
- 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: STAINLESS STEEL AND GRP
- IN ACCORDANCE WITH THE CURRENT FBC, DISSIMILAR METALS INCLUDING FASTENERS SHALL BE PROTECTED FROM GALVANIC CORROSION.
- CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.
- MULL ASSEMBLIES ARE QUALIFIED FOR TWO OR MORE UNITS PER OPENING IN THE FOLLOWING CONFIGURATION:
 - "ONE WAY" - RIBBON OR STACKED MULLIONS, SEE SHEET 3 FOR TYPICAL ELEVATION TYPES.
 - "TWO WAY" - 'X' OR 'T' MULLIONS, SEE SHEET 4 FOR TYPICAL ELEVATION TYPES.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL AND INSTALLATION NOTES
2	MULL ASSEMBLY SECTIONS
3	ONE - WAY MULLION TABLES AND CONFIGURATIONS
4	TWO - WAY MULLION TABLES AND CONFIGURATIONS
5	INSTALLATION DETAIL AND ANCHOR SUMMARY TABLE
6	INSTALLATION DETAILS CONTINUED

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 SHEET 2 (REFER TO ABBREVIATION TABLE ABOVE).
- STEP 3: DETERMINE ALLOWABLE LOAD OF MULL ASSEMBLY FROM APPLICABLE TABLE, REFER TO SHEETS 3-4.
- STEP 4: INSTALL MULLION BASED ON APPLICABLE SPECIFICATIONS & DETAILS SHOWN ON SHEETS 5 AND 6.



ARCADIA CUSTOM
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PH: (520) 284-2061 FX: (520) 349-1964

TITLE:
STRUCTURAL MULLION
(WZ3) (IMPACT)

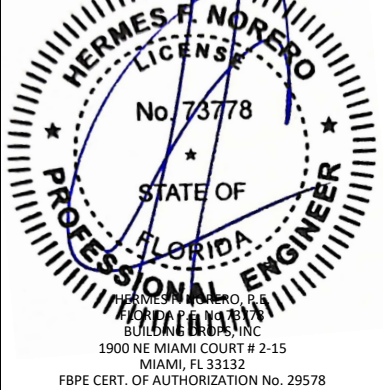
GENERAL & INSTALLATION NOTES

PREPARED BY:
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REMARKS	BY	DATE
DP TABLE UPDATE	MG	06/23
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.10.06 17:51:01 -07'00'



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SCALE: **NTS**

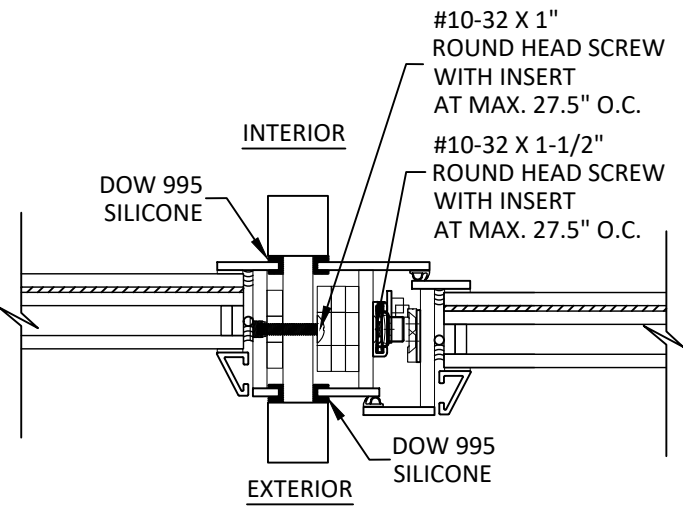
DWG. #: **ACWD013**

SHEET:
1

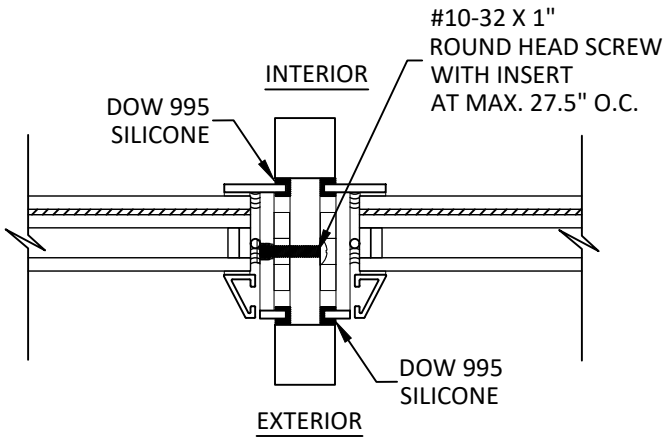
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OF 6

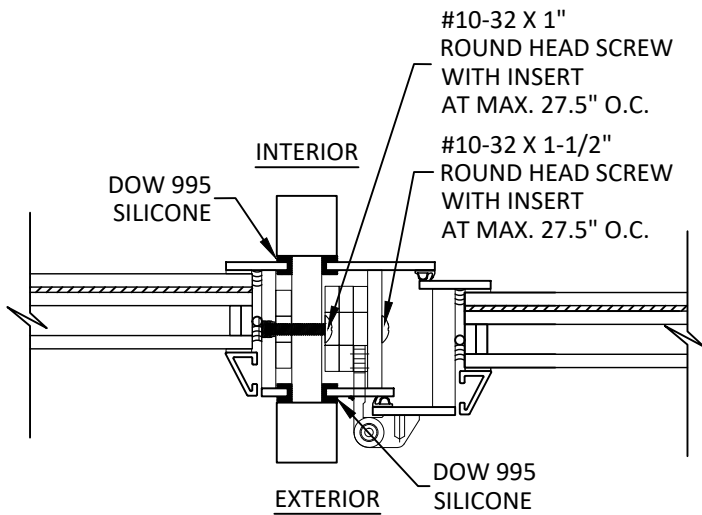
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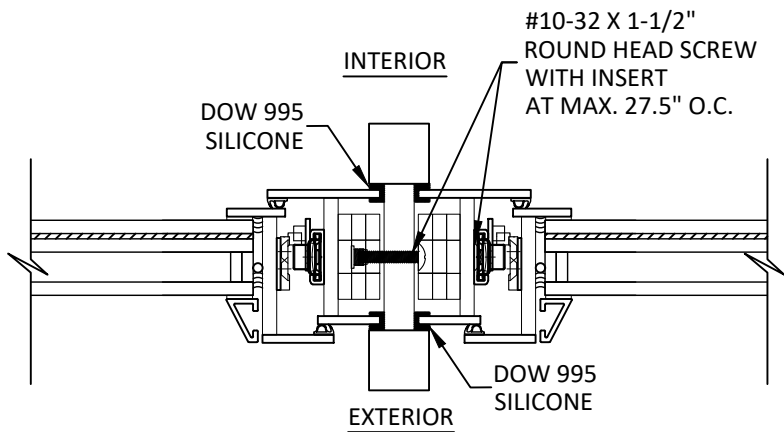
A
2
FIXED WINDOW TO CASEMENT WINDOW
VERTICAL OR HORIZONTAL MULL



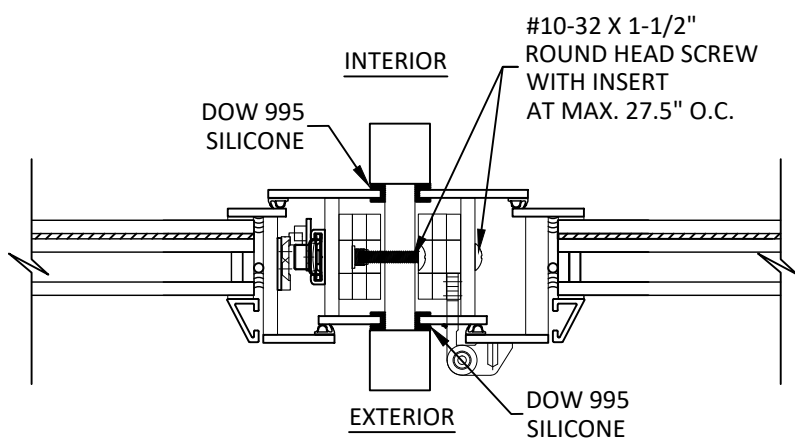
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2
FIXED WINDOW TO FIXED WINDOW
VERTICAL OR HORIZONTAL MULL



C
2
FIXED WINDOW TO OUTSWING DOOR
VERTICAL OR HORIZONTAL MULL



D
2
CASEMENT WINDOW TO CASEMENT WINDOW
VERTICAL OR HORIZONTAL MULL



E
2
CASEMENT WINDOW TO OUTSWING DOOR
VERTICAL OR HORIZONTAL MULL

NOTE:
DOORS AND WINDOWS ARE UNDER SEPREATE
FLORIDA PRODUCT APPROVALS.



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STRUCTURAL MULLION
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MULL ASSEMBLY SECTIONS

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CHK. BY: HFN

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DWG. #: ACWD013

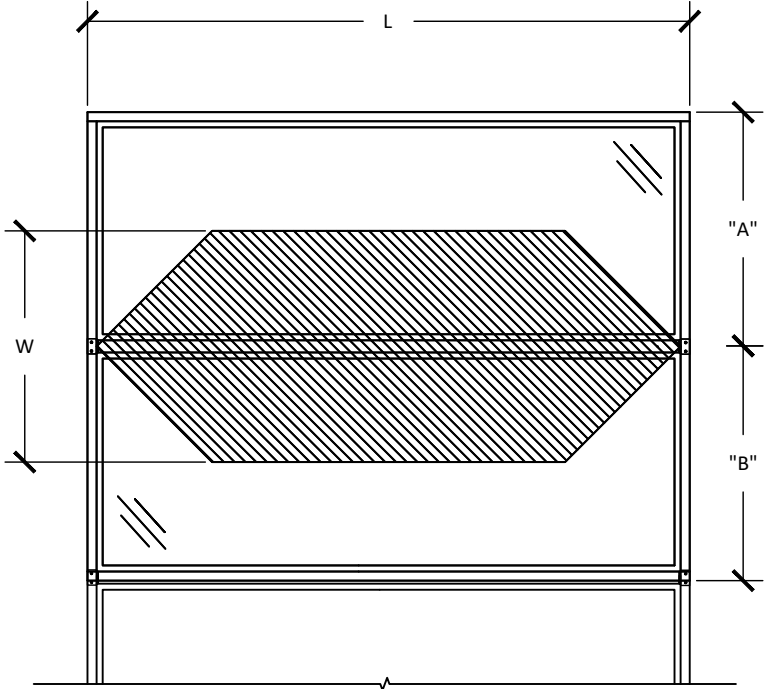
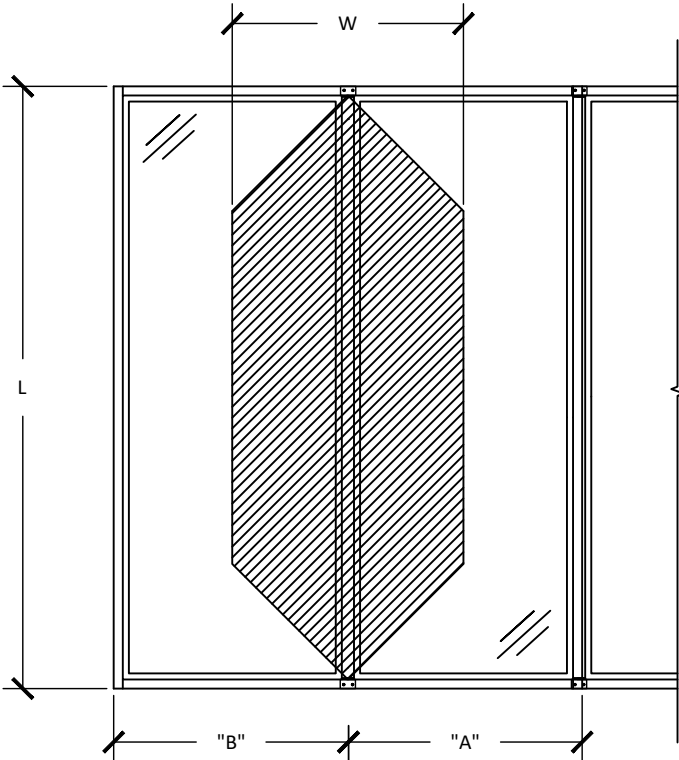
SHEET: 2
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STRUCTURAL MULLION TABLE: ONE-WAY

L - MULL LENGTH (IN)	ONE-WAY MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)										
	W - TRIBUTARY WIDTH (IN.)										
	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
36.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
78.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
84.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
90.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
96.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
102.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
108.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	68.2	66.7	65.6
114.0	70.0	70.0	70.0	70.0	70.0	70.0	67.3	64.6	62.5	60.9	59.7
120.0	70.0	70.0	70.0	70.0	70.0	65.8	62.5	59.8	57.7	56.0	54.7
126.0	70.0	70.0	70.0	70.0	65.6	61.6	58.3	55.7	53.6	51.9	50.5
132.0	70.0	70.0	70.0	66.7	61.8	57.9	54.7	52.1	50.0	48.3	46.9
138.0	70.0	70.0	69.1	63.1	58.3	54.5	51.5	49.0	46.9	45.2	43.8
144.0	70.0	70.0	65.6	59.8	55.3	51.6	48.6	46.2	44.1	42.4	41.0

NOTES:

1. MULLION CHART APPLIES TO MULLION 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/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS AND DOORS SHALL BE UNDER SEPARATE FL APPROVALS.
5. MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
INSTALLATION TO 2X WOOD, METAL STUD, GROUT FILLED OR HOLLOW BLOCK, OR CONCRETE.
6. TRIBUTARY WIDTH = $W = (A+B)/2$
7. REFER TO SHEETS 5 AND 6 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.



arcadia

CUSTOM

ARCADIA CUSTOM
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STRUCTURAL MULLION
(WZ3) (IMPACT)
ONE-WAY MULLIONS TABLES
AND CONFIGURATIONS

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HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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

FL#: FL41169

DATE: 04.08.22

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SCALE: NTS

DWG. #: ACWD013

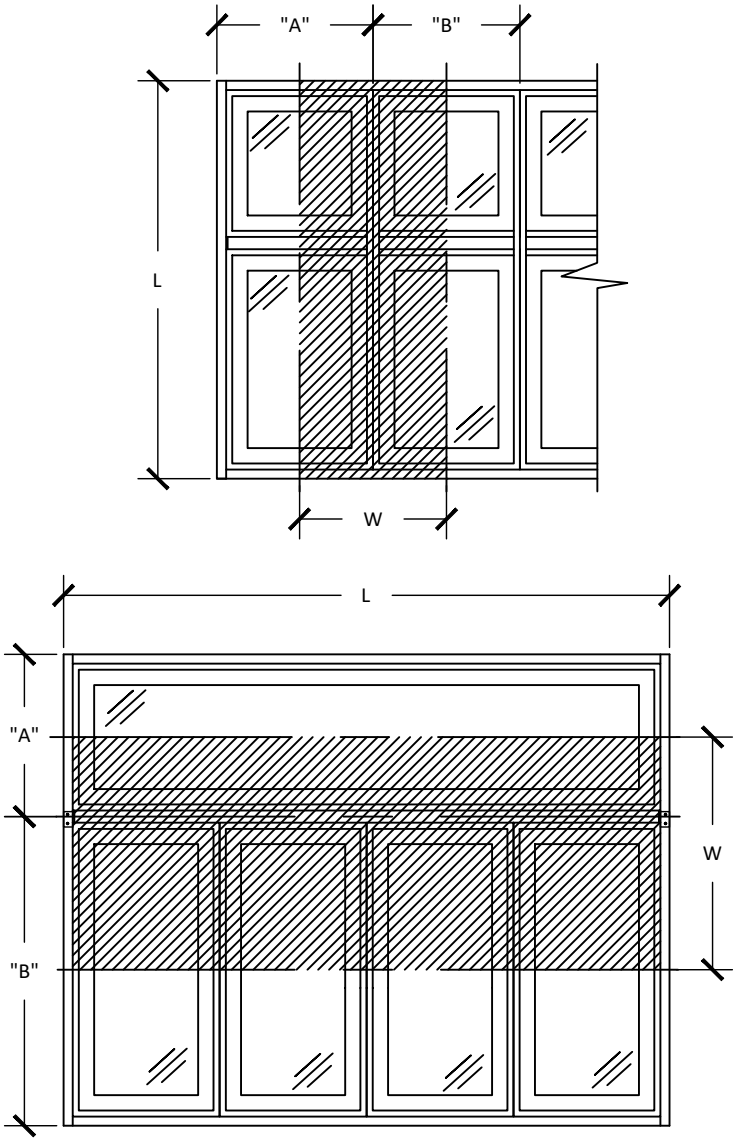
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STRUCTURAL MULLION TABLE: TWO-WAY

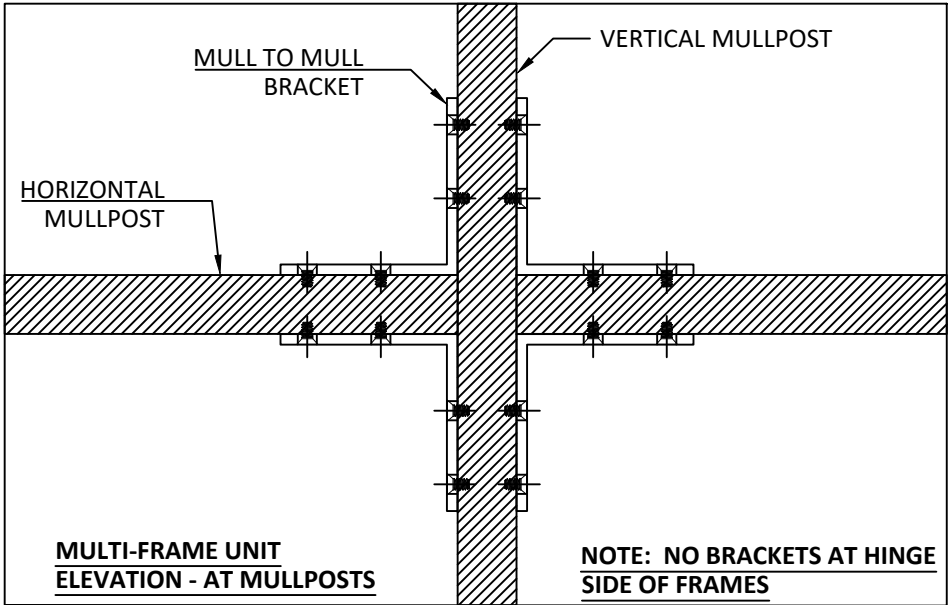
L - MULL LENGTH (IN.)	TWO-WAY MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)											
	W - TRIBUTARY WIDTH (IN.)											
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36.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
42.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
48.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
54.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
66.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
72.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
78.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
84.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
90.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
96.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
102.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
108.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	69.2	64.9	
114.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	66.6	62.1	58.3	
120.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	64.7	60.1	56.1	52.6	
126.0	70.0	70.0	70.0	70.0	70.0	69.4	63.6	58.7	54.5	50.9	47.7	
132.0	70.0	70.0	70.0	70.0	69.5	63.2	57.9	53.5	49.7	46.4	43.5	
138.0	70.0	70.0	70.0	70.0	63.6	57.8	53.0	48.9	45.4	42.4	39.8	
144.0	70.0	70.0	70.0	64.9	58.4	53.1	48.7	44.9	41.7	38.9	36.5	

NOTES:

1. MULLION CHART APPLIES MULLION ASSEMBLIES, WHEN MULLED IN TWO-WAY, 'X' OR 'T' CONFIGURATIONS, WHERE REINFORCED JOINING IS USED FOR CONTINUOUS/NON-CONTINUOUS MULL SPANS.
2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3. MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS AND DOORS SHALL BE UNDER SEPARATE FL APPROVALS.
5. MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
INSTALLATION TO 2X WOOD, METAL STUD, GROUT FILLED OR HOLLOW BLOCK, OR CONCRETE
6. TRIBUTARY WIDTH = $W = (A+B)/2$
7. REFER TO SHEETS 5 AND 6 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 THE UNITS BELOW.



TYPICAL MULLION TO MULLION CONNECTION



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TUCSON, AZ 85747

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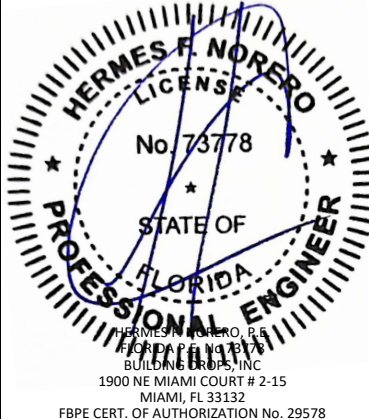
STRUCTURAL MULLION
(WZ3) (IMPACT)
TWO-WAY MULLIONS TABLES
AND CONFIGURATIONS

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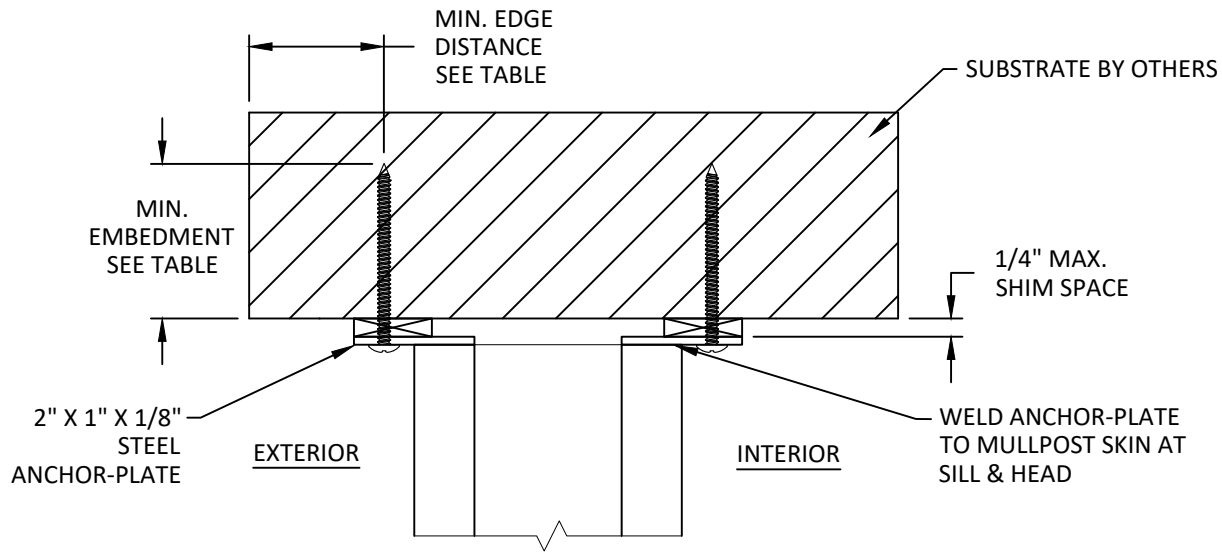
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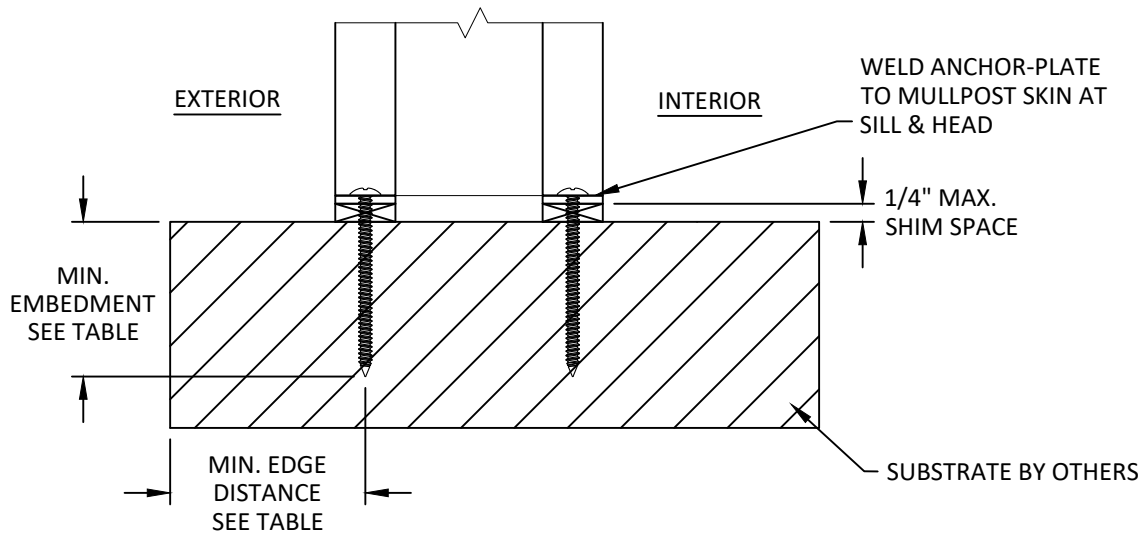
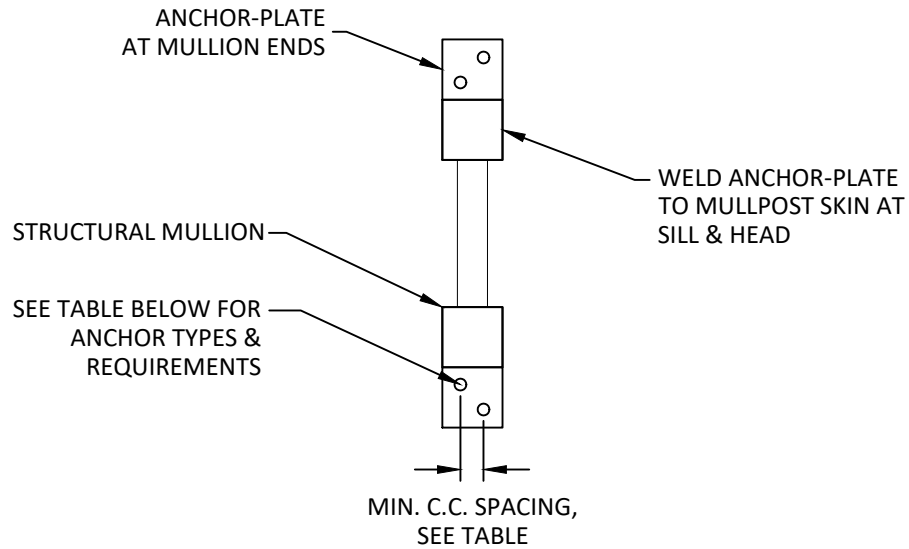
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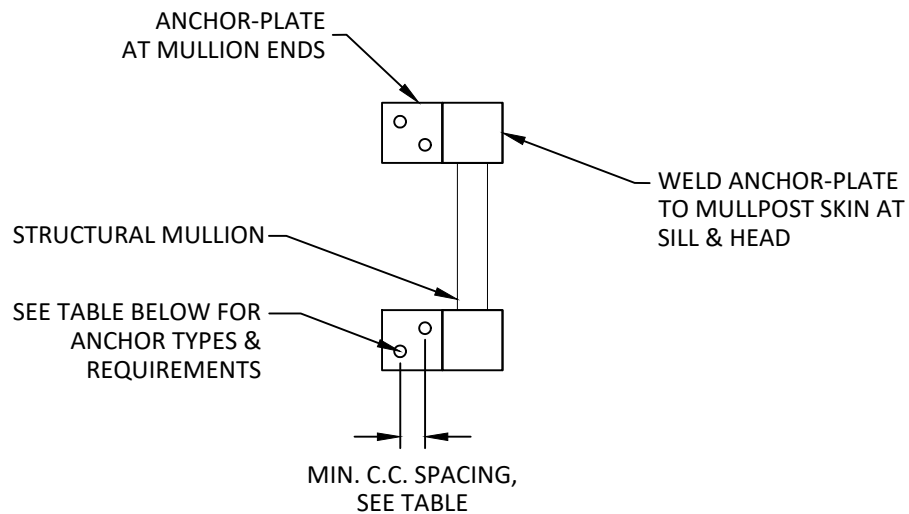
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A
5 **INSTALLATION DETAIL**
PERPENDICULAR TO FRAME



B
5 **INSTALLATION DETAIL**
PARALLEL TO FRAME



NOTE:
HEAD & SILL SIMILAR FOR BOTH PLATE
ORIENTATIONS.

ANCHOR SCHEDULE						
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE	MIN. C.C SPACING	QUANTITY PER LOCATION
MULLION CLIP	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.5"	0.75"	1.0"	2
	METAL: 18 GAUGE STELL, MIN. Fy = 33KSI	#14 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	0.75"	2
	METAL: ALUMINUM MIN. 6063-T5 1/8" WALL THICKNESS		3 THREADS MIN PENETRATION BEYOND METAL	0.50"	0.75"	2
	CONCRETE: MIN. f'c = 3000 PSI	5/16" ITW TAPCON FLATHEAD	1.75"	2.5"	2.0"	2
	MASONRY: CMU MIN. 2000 PSI		1.75"	4.0"	2.0"	2



ARCADIA CUSTOM
9280 E OLD VAIL RD,
TUCSON, AZ 85747

PH: (520) 284-2061 FX: (520) 349-1964

TITLE: STRUCTURAL MULLION (WZ3) (IMPACT)

INSTALLATION DETAIL AND ANCHOR SUMMARY TABLE

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15

MIAMI, FL 33132

PH: (954) 399-8478

FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
DP TABLE UPDATE	MG	06/23
2026 CODE CHANGE	HJ	03/26

THE INSTALLATION DETAILS DESCRIBED HERE IN 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#:

FL41169

DATE: 04.08.22

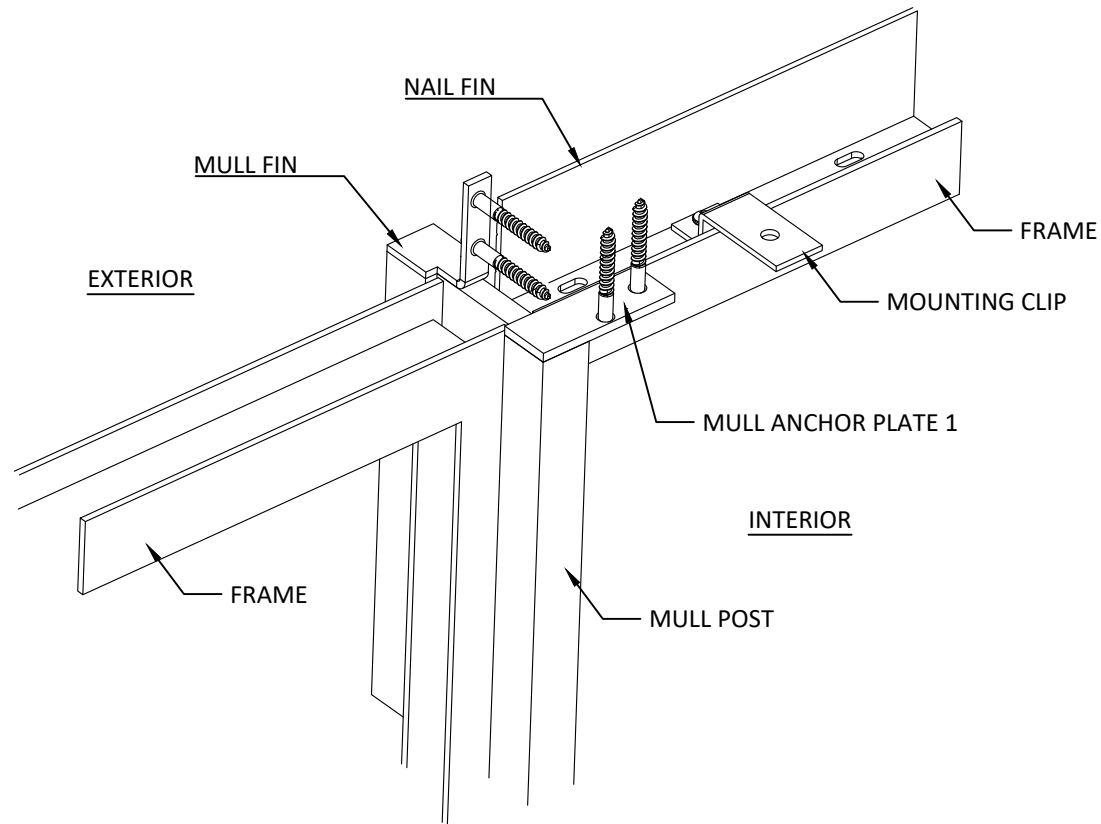
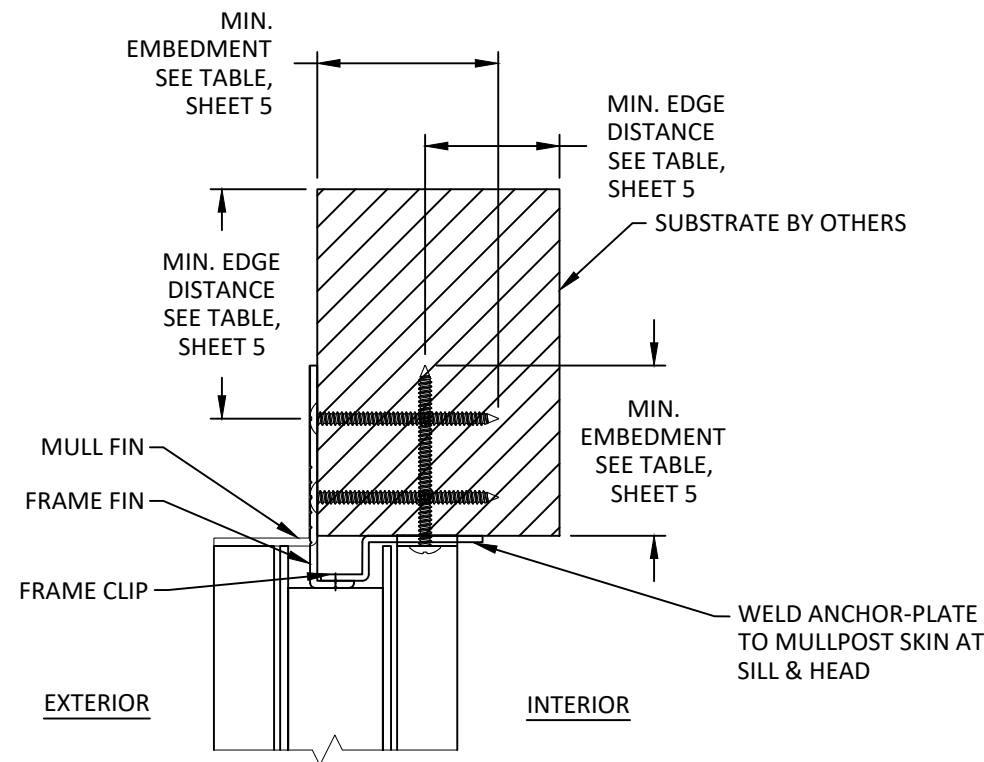
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CHK. BY: HFN

SCALE: NTS

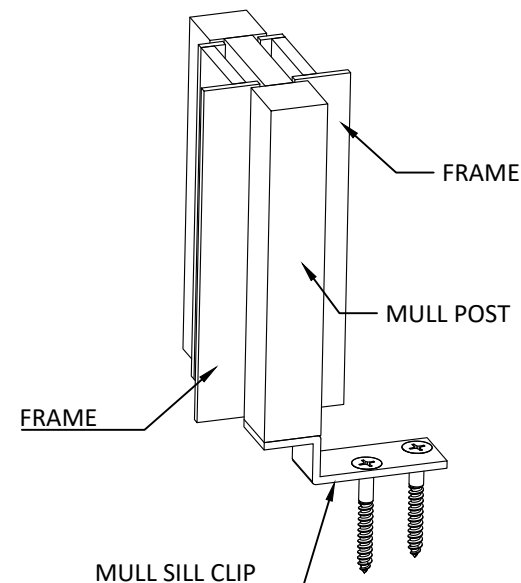
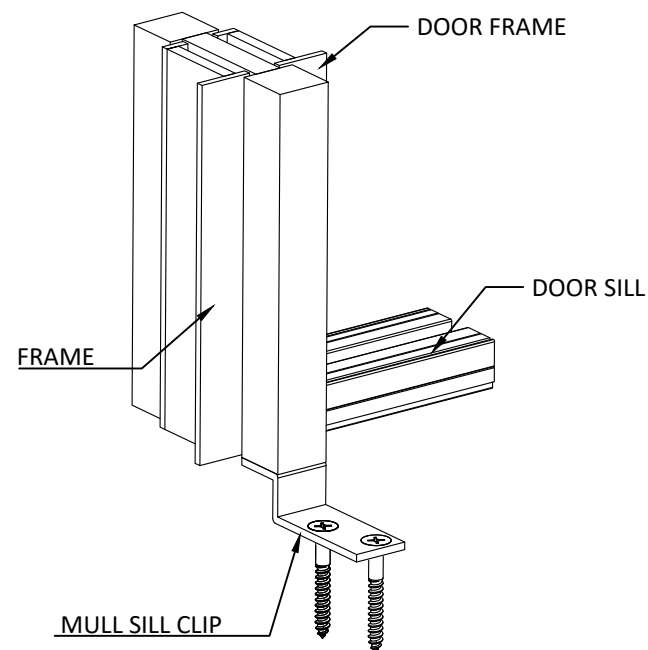
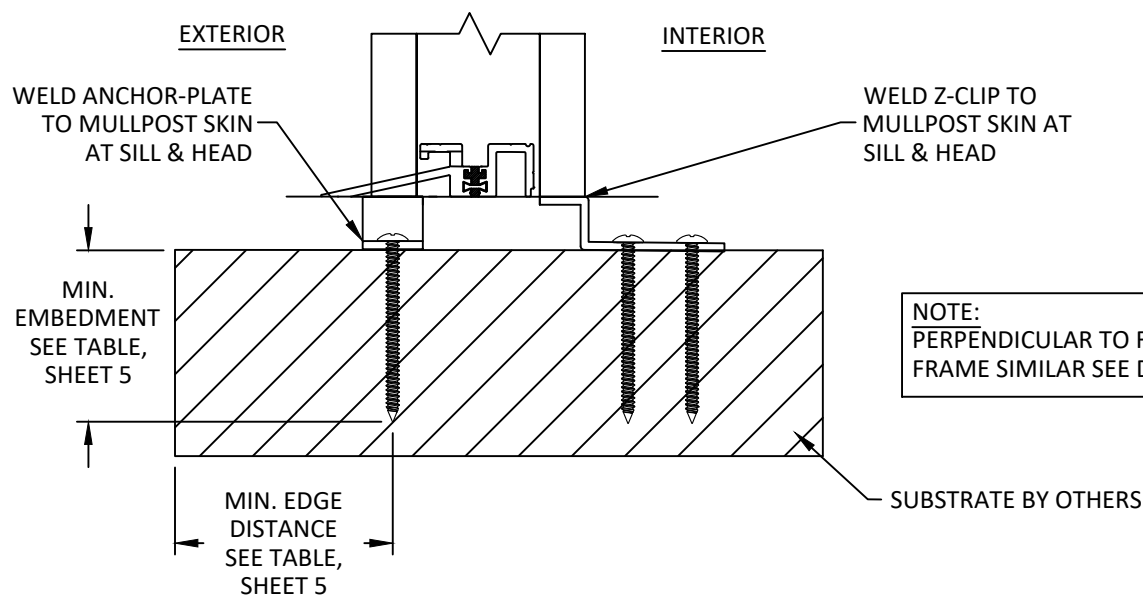
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C
6 **INSTALLATION DETAIL**
NAIL FIN INSTALLATION



NOTE:
HEAD & SILL SIMILAR FOR BOTH PLATE
ORIENTATIONS.

D
6 **INSTALLATION DETAIL**
Z-CLIP INSTALLATION



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TUCSON, AZ 85747

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TITLE: STRUCTURAL MULLION
(WZ3) (IMPACT)

INSTALLATION DETAILS
CONTINUED

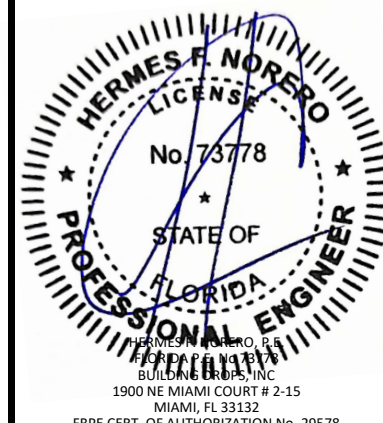
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