

CROFT, LLC.

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 $\pm 1/2$ 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. STEEL - MINIMUM WALL THICKNESS OF 54 MILS (16 GA.), A36 STEEL MIN.
 - C. ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5 MIN.)

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:
 - FLORIDA BUILDING CODE SECTION 1709.8
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.
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: PVC AND ALUMINUM (6063-T5 MIN.)
8. IN ACCORDANCE WITH THE CURRENT EDITION FBC, DISSIMILAR METALS INCLUDING FASTENERS SHALL BE PROTECTED FROM GALVANIC CORROSION.
9. MULL ASSEMBLIES ARE QUALIFIED FOR TWO OR MORE UNITS PER OPENING IN THE FOLLOWING CONFIGURATION:
 - "ONE WAY" - RIBBON OR STACKED MULLIONS

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES AND INSTALLATION NOTES
2	MULL ASSEMBLY SECTIONS
3	ONE-WAY MULLION TABLE
4	TYPICAL ANCHOR LAYOUTS
5	INSTALLATION DETAILS AND ANCHOR CLUSTER TABLE

PRODUCT ABBREVIATION KEY	
ABBREVIATION	PRODUCT NAME
PW =	PICTURE WINDOW
SH =	SINGLE HUNG WINDOW
HS =	HORIZONTAL SLIDING WINDOW

MISSILE IMPACT RATING
LARGE AND SMALL MISSILE IMPACT RATED (WZ3)

- 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 LOAD TABLE, REFER TO SHEET 3.
- STEP 4: INSTALL MULLION BASED ON APPLICABLE SPECIFICATIONS & DETAILS SHOWN ON SHEETS 4 AND 5.



1800 NORTH CLARK AVE.
MAGNOLIA, MS 39652
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TITLE: SRE/IES 10 UN-CLIPPED
MULLION
(WZ3) (IMPACT)

**GENERAL NOTES AND
INSTALLATION NOTES**

PREPARED BY:

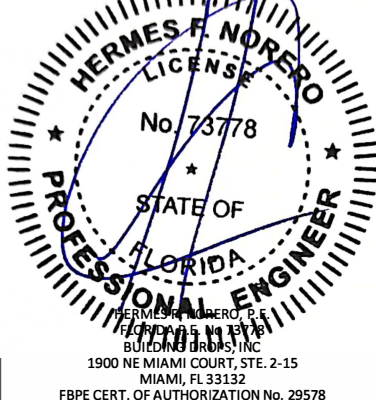
 **BUILDING DROPS**

BUILDING DROPS, INC.
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MIAMI, FL 33132
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REMARKS	BY	DATE

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2025.06.18 06:56:54 -04'00'



FL #: **FL47572**

DATE: 06.13.2025

DWG. BY: SH	CHK. BY: HFN
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SCALE: **NTS**

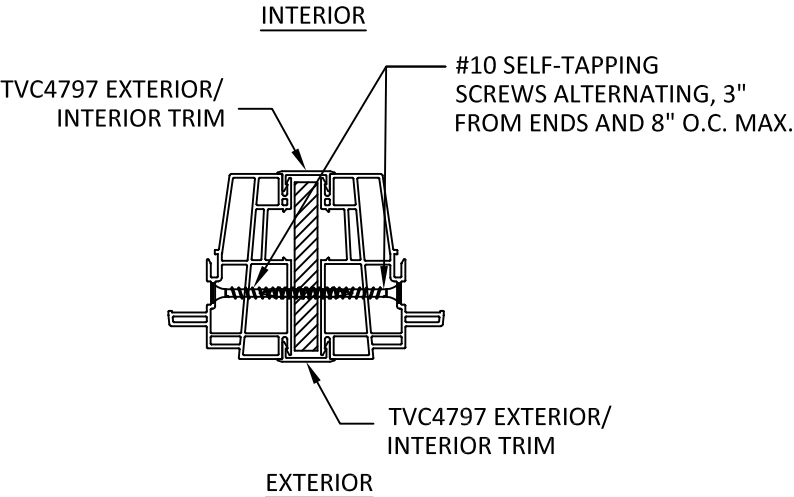
DWG. #: CRF030

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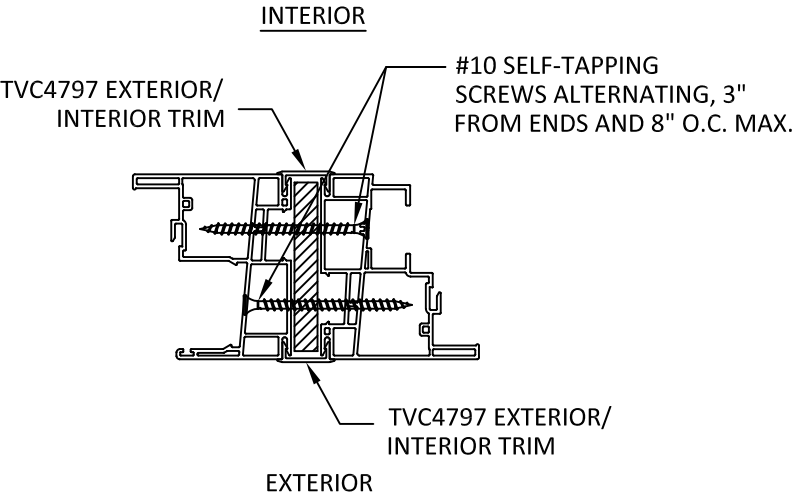
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OF 5

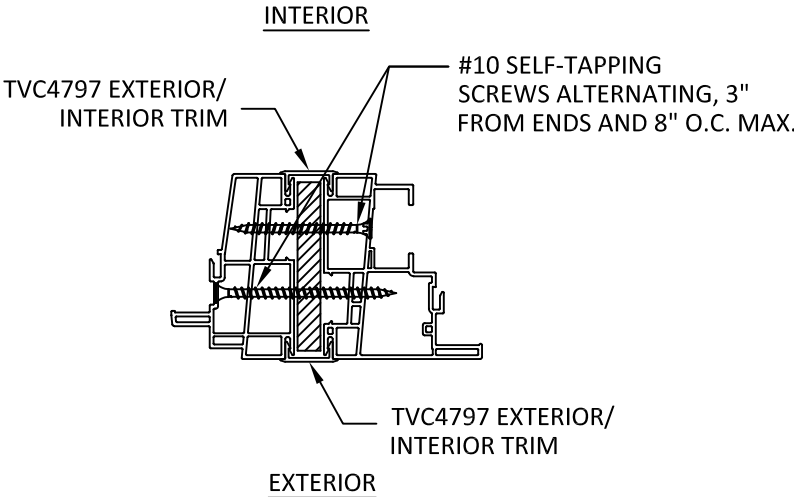
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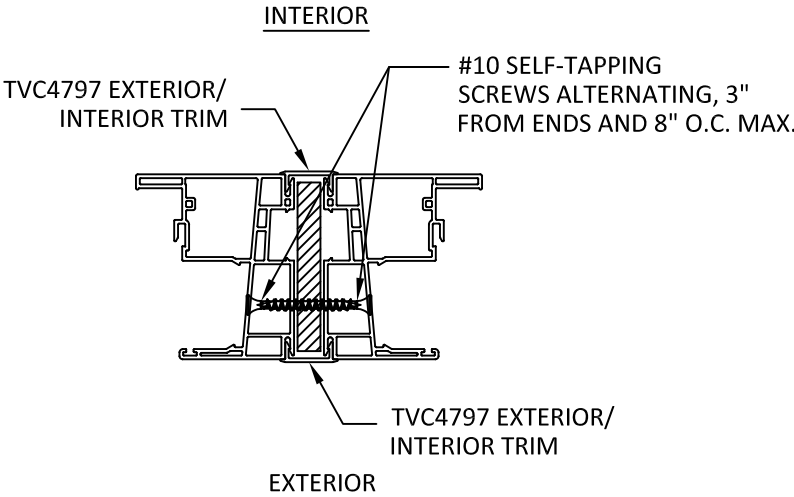
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2 **PW TO PW**
VERTICAL OR HORIZONTAL MULL
3/8" X 2-3/4" ALUMINUM BAR



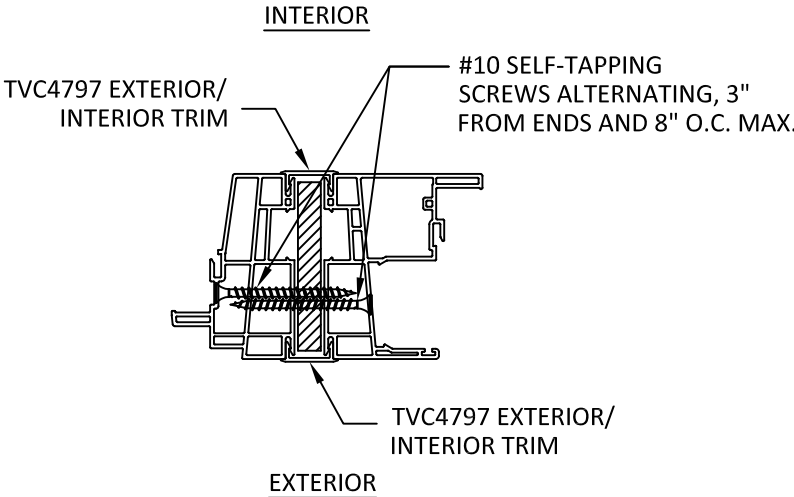
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VERTICAL OR HORIZONTAL MULL
3/8" X 2-3/4" ALUMINUM BAR



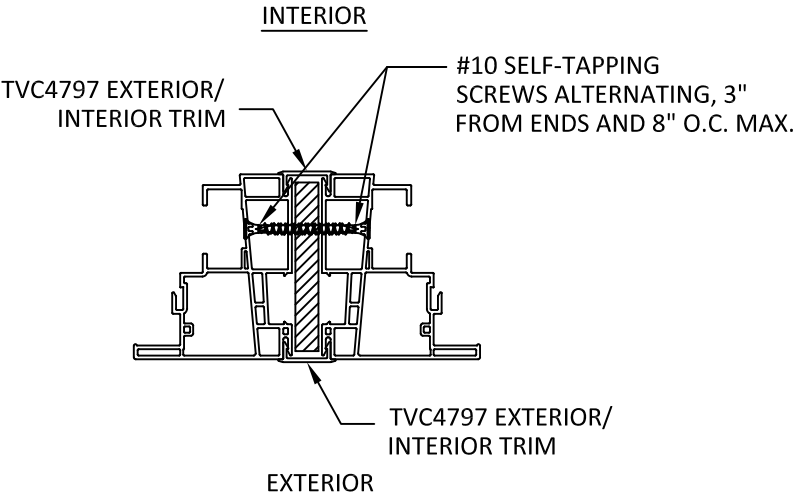
B
2 **PW TO SH**
VERTICAL OR HORIZONTAL MULL
3/8" X 2-3/4" ALUMINUM BAR



E
2 **HS TO HS**
VERTICAL OR HORIZONTAL MULL
3/8" X 2-3/4" ALUMINUM BAR



C
2 **PW TO HS**
VERTICAL OR HORIZONTAL MULL
3/8" X 2-3/4" ALUMINUM BAR



F
2 **SH TO SH**
VERTICAL OR HORIZONTAL MULL
3/8" X 2-3/4" ALUMINUM BAR



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MULLION
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MULL ASSEMBLY SECTIONS

PREPARED BY: BUILDING DROPS, INC.

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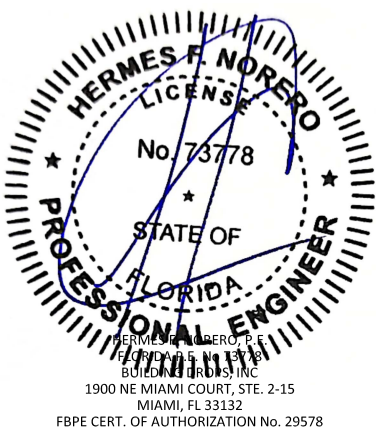
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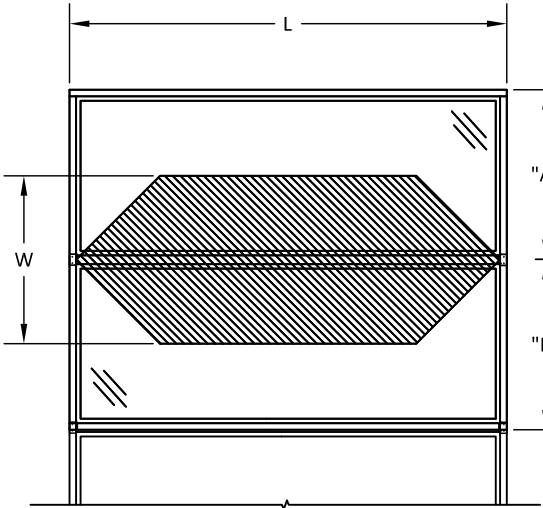
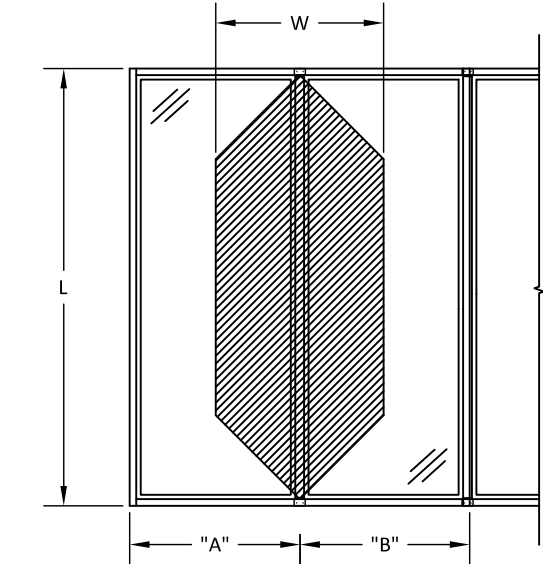


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DWG. #:	CRF030
SHEET:	2
	OF 5

UN-CLIPPED MULLION ALLOWABLE DESIGN PRESSURE TABLE

MULLION ALLOWABLE DESIGN PRESSURE TABLE (PSF)																				
L - MULL LENGTH (IN.)	W - TRIBUTARY WIDTH (IN.)																			
	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	
36	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
39	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
42	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
45	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
48	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
51	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
54	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
57	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.7	45.6
60	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.0	44.8	41.2	
63	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.3	48.9	48.8	44.4	40.6	37.3	
66	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	48.2	46.2	44.5	43.2	42.2	41.4	40.9	40.6	40.5	37.0	34.0	
69	50.0	50.0	50.0	50.0	50.0	49.8	46.5	43.8	41.6	39.7	38.2	37.0	36.0	35.2	34.6	34.2	34.0	33.9	31.1	
72	50.0	50.0	50.0	50.0	47.1	43.5	40.5	38.1	36.1	34.4	33.1	31.9	31.0	30.2	29.6	29.1	28.8	28.6	28.6	
75	50.0	50.0	50.0	45.5	41.4	38.2	35.6	33.4	31.6	30.1	28.8	27.7	26.9	26.1	25.5	25.1	24.7	24.5	24.3	
78	50.0	50.0	44.8	40.3	36.7	33.8	31.4	29.4	27.8	26.4	25.3	24.3	23.5	22.8	22.2	21.7	21.4	21.1	20.9	
81	50.0	45.3	39.9	35.8	32.6	30.0	27.9	26.1	24.6	23.3	22.3	21.4	20.6	20.0	19.5	19.0	18.6	18.3	18.1	
84	46.9	40.5	35.7	32.0	29.1	26.8	24.8	23.2	21.9	20.7	19.8	19.0	18.3	17.7	17.1	16.7	16.4	16.1	-	
87	42.2	36.4	32.1	28.7	26.1	24.0	22.2	20.8	19.6	18.5	17.6	16.9	16.2	-	-	-	-	-	-	
90	38.1	32.8	28.9	25.9	23.5	21.6	20.0	18.7	17.5	16.6	-	-	-	-	-	-	-	-	-	
93	34.5	29.7	26.2	23.4	21.2	19.5	18.0	16.8	-	-	-	-	-	-	-	-	-	-	-	
96	31.3	27.0	23.7	21.2	19.3	17.7	16.3	-	-	-	-	-	-	-	-	-	-	-	-	

- NOTE:
- 1. MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
 - 2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3. 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.
 - 4. DEFLECTION HAS BEEN LIMITED TO L/175.
 - 5. MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
NAIL-FIN TO 2X WOOD OR METAL STUD.
 - 6. TRIBUTARY WIDTH = W = (A+B)/2
 - 7. REFER TO SHEETS 4 AND 5 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.



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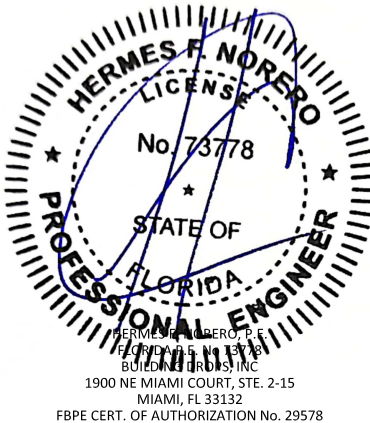
TITLE: SREIES 10 UN-CLIPPED MULLION (WZ3) (IMPACT) ONE-WAY MULLION TABLE

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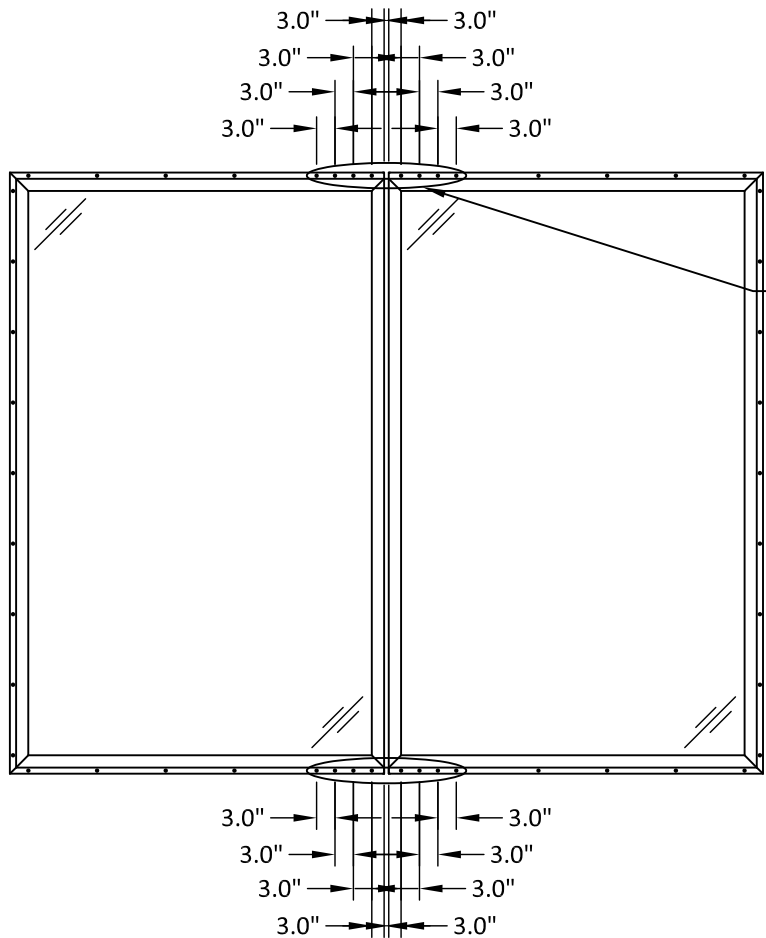
DWG. BY: SH	CHK. BY: HFN
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SCALE: NTS

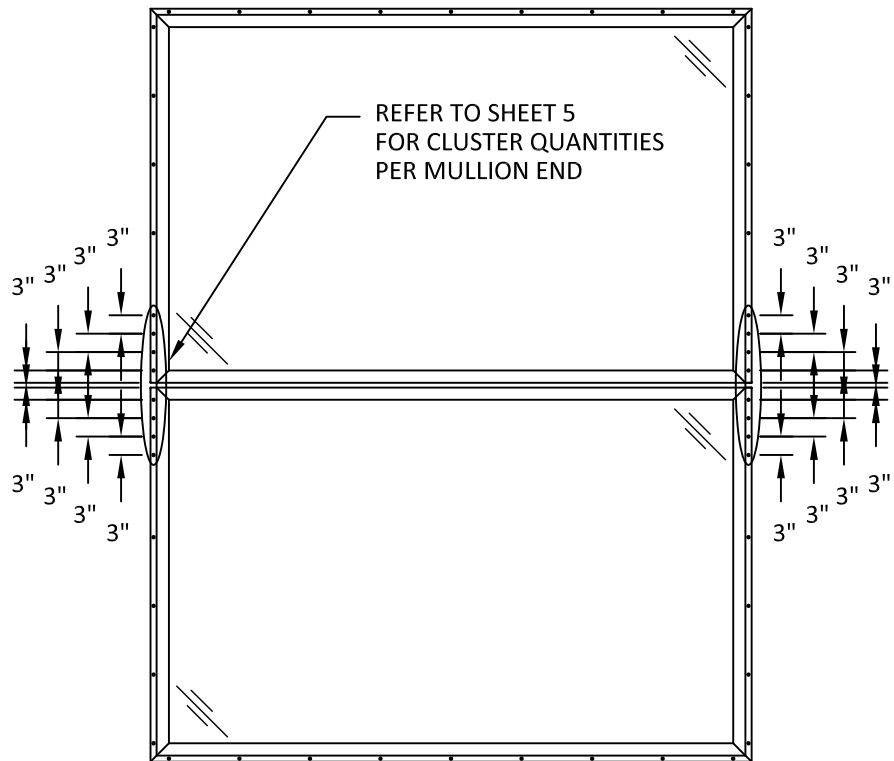
DWG. #: CRF030

SHEET: 3 OF 5

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ANCHOR LAYOUT
NAIL FIN INSTALLATION
VERTICAL MULLION



ANCHOR LAYOUT
NAIL FIN INSTALLATION
HORIZONTAL MULLION



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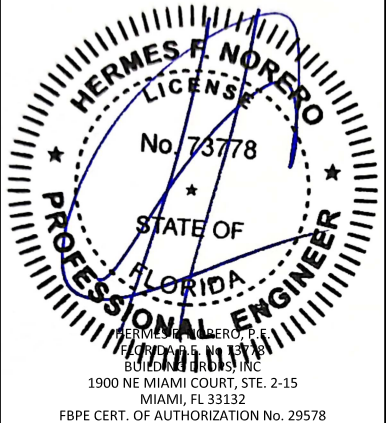
TITLE: SRE/IES 10 UN-CLIPPED
MULLION
(WZ3) (IMPACT)
TYPICAL ANCHOR
LAYOUTS

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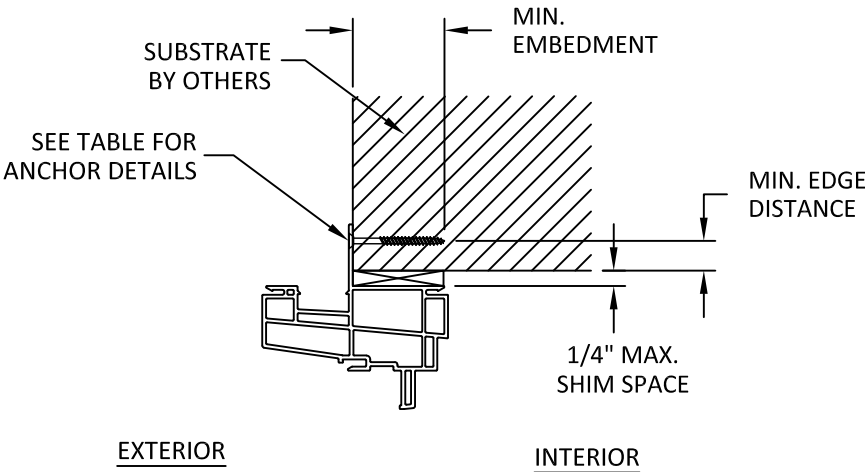
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SH	HFN
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DWG. #:	CRF030
SHEET:	4
	OF 5

ANCHOR CLUSTER TABLE

MINIMUM ANCHOR CLUSTER PER MULLION END																			
L - MULL LENGTH (IN.)	W - TRIBUTARY WIDTH (IN.)																		
	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72
36	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	5
39	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	5
42	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	5	5	5	5
45	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	5	6
48	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
51	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
54	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7
57	2	2	3	3	3	3	4	4	4	5	5	5	5	6	6	6	6	7	6
60	2	2	3	3	3	4	4	4	4	5	5	5	6	6	6	6	7	6	6
63	2	3	3	3	3	4	4	4	5	5	5	6	6	6	6	7	6	6	6
66	2	3	3	3	4	4	4	5	5	5	5	5	5	5	6	6	6	6	6
69	2	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6	5
72	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5
75	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5
78	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
81	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4
84	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-
87	3	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-	-	-	-
90	2	2	2	2	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-
93	2	2	2	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-
96	2	2	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-



A
5

VERTICAL SECTION
HEAD - NAIL FIN

NOTE: JAMB & SILL SIMILAR

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
NAIL FIN	WOOD: MIN. SG = 0.55	#8 WOOD SCREW	1.50"	0.75"
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#8 SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"



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INSTALLATION DETAILS AND ANCHOR CLUSTER TABLE

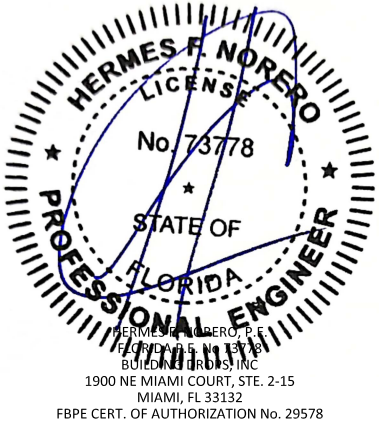
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SHEET:

5

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