

c:\users\franciscobriceno\building drops, inc\building drops landing - common\projects\la finestra, lc\lc-24-1248.1 - fbc submittal - new mullion - 010507 & 020400 revisions\dwgs\lft013.dwg 4/25/2025 1:57 PM

LA FINESTRA, LC

SERIES ALUMINUM MULLIONS

(HVHZ)(IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- TAS 201-94

TAS 202-94

TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 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.
5. 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.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
7. MULLION MATERIAL: ALUMINUM 6063-T6
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 ON SHEETS 4 & 7.
2. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 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.
3. 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.
4. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE 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. 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.
7. 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.
8. 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.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES AND INSTALLATION NOTES
2	TYPICAL ELEVATIONS
3	ONE-WAY MULLION CAPACITY TABLES
4	MULLION CLIP CAPACITY TABLES
5	MULLION DETAILS
6	MULLION DETAILS
7	INSTALLATION DETAILS & ANCHOR SCHEDULE
8	BILL OF MATERIALS & COMPONENTS

INSTRUCTIONS FOR USE:

1. DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, RISK CATEGORY, & WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
2. CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3.
3. USING CHARTS ON SHEETS 4 AND 7 SELECT ANCHOR TYPE AND CLIP OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
4. THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO THE ENTIRE SYSTEM.



2790 NW 104TH COURT
DORAL, FL 33172
PH: (305) 599-8093

TITLE: SERIES ALUMINUM MULLIONS
(HVHZ)(IMPACT)

GENERAL NOTES &
INSTALLATION NOTES

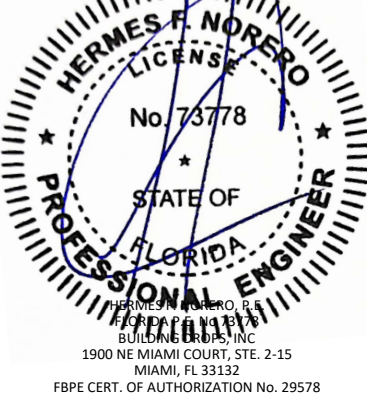
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MULLION ADDITION	FB	04/25

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.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2025.04.25 14:02:11 -04'00'



FL #:

FL20400

DATE: 02.20.2024

DWG. BY:
SH

CHK. BY:
HFN

SCALE: NTS

DWG. #: LFT013

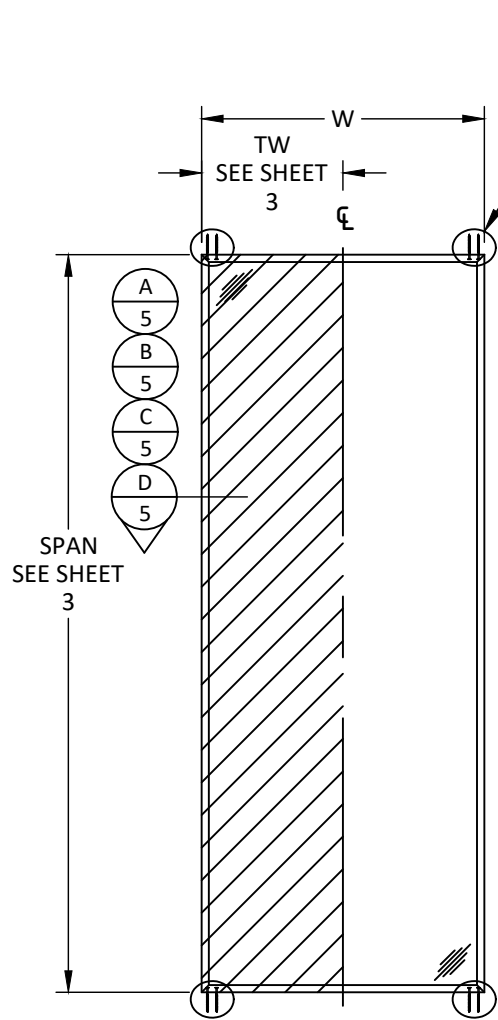
SHEET:

1

OF 8

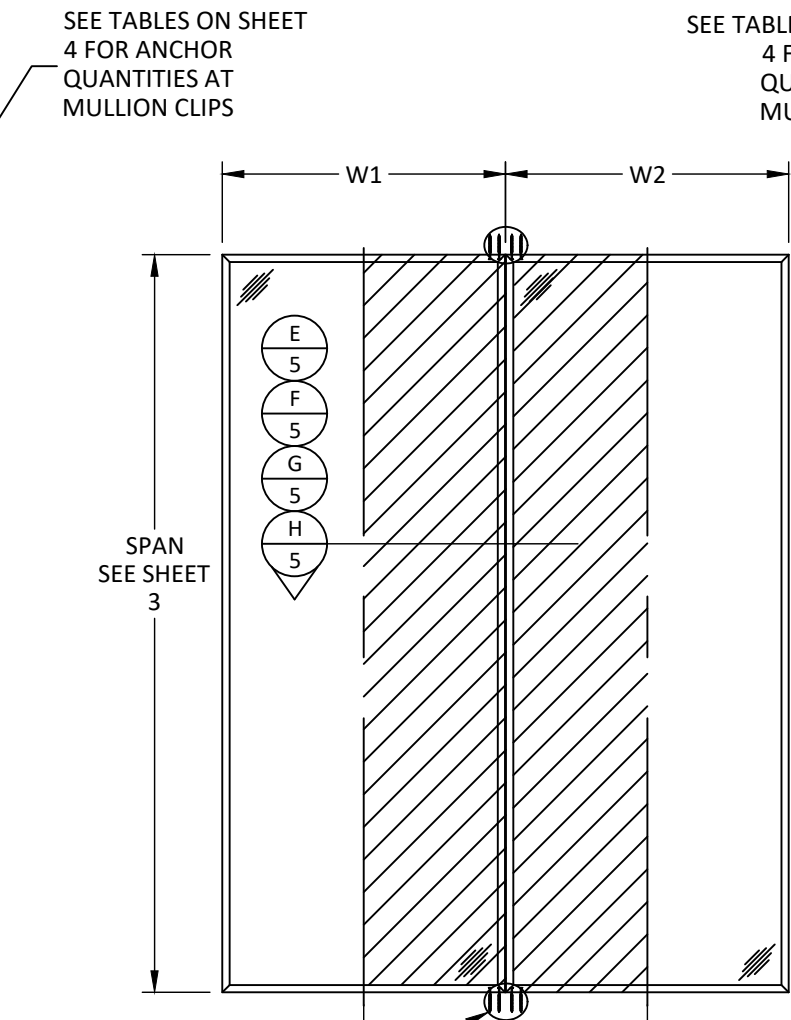
c:\users\franciscobreno\building drops, inc\building drops landing - common\projects\la finestra, c\fc-24-1248.1 - fbc submittal - new mullion - 0118507 & 020400 revisions\dwgs\lft013.dwg 4/25/2025 1:57 PM

NOTE: WINDOWS AND DOORS UNDER SEPARATE FLORIDA PRODUCT APPROVAL. LESSER DESIGN PRESSURE SHALL GOVERN THE ASSEMBLY.



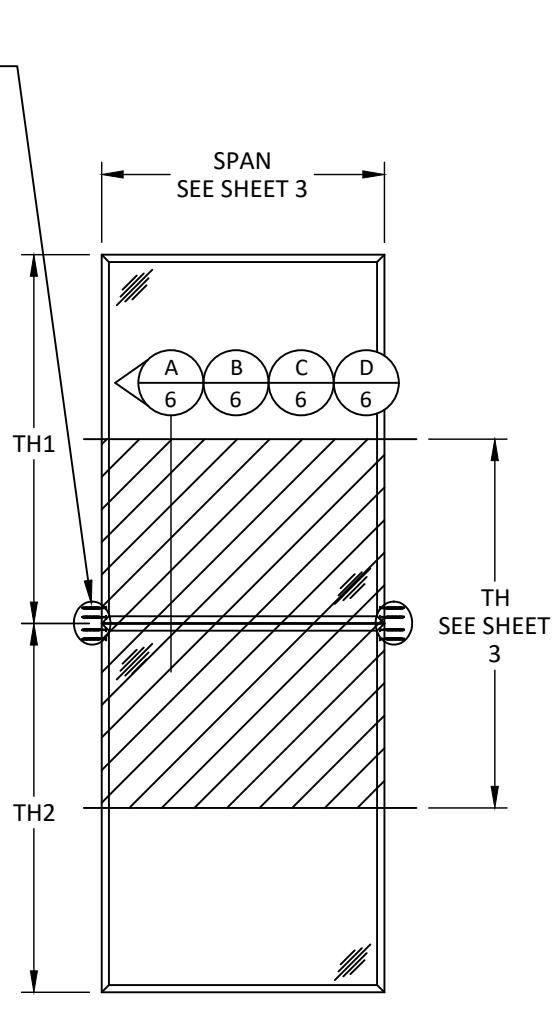
ELEVATION
MULLION AT JAMB

TW = TRIBUTARY WIDTH
TW = W/2



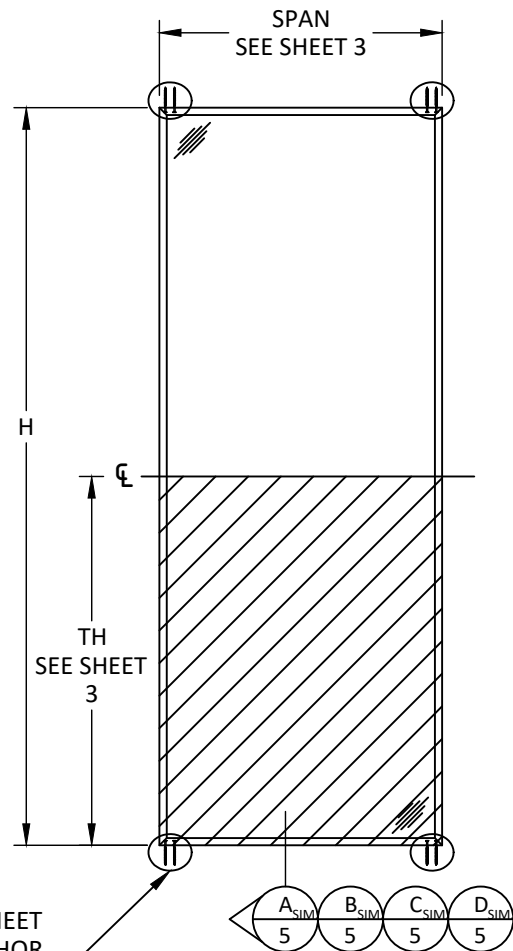
ELEVATION
VERTICAL MULLION

TW = TRIBUTARY WIDTH
TW = (W1+W2)/2



ELEVATION
HORIZONTAL MULLION

TH = TRIBUTARY HEIGHT
TH = (TH1+TH2)/2



ELEVATION
MULLION AT HEAD/SILL

TH = TRIBUTARY HEIGHT
TH = H/2



2790 NW 104TH COURT
DORAL, FL 33172
PH: (305) 599-8093

TITLE: SERIES ALUMINUM MULLIONS
(HVHZ)(IMPACT)

TYPICAL ELEVATIONS

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
MULLION ADDITION	FB	04/25

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.



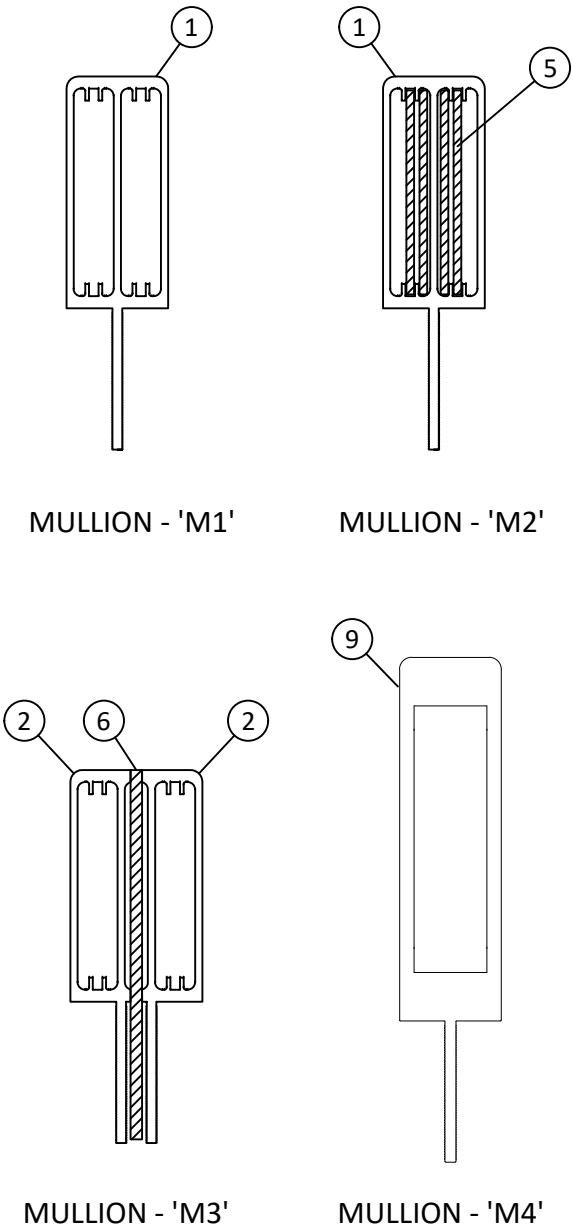
FL #:	FL20400
DATE:	02.20.2024
DWG. BY:	CHK. BY:
SH	HFN
SCALE:	NTS
DWG. #:	LFT013
SHEET:	2

ONE-WAY MULLION CAPACITY TABLES

DESIGN LOAD CAPACITY (PSF)									
NOMINAL DIMS		MULLION - M1		MULLION - M2		MULLION - M3		MULLION - M4	
TW/TH (IN.)	SPAN (IN.)	POS (+)	NEG (-)	POS (+)	NEG (-)	POS (+)	NEG (-)	POS (+)	NEG (-)
30	72	80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
36		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
42		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
48		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
54		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
60		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
66		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
72		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
78		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
84		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
90	80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0	
96	80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0	
30	78	80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
36		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
42		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
48		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
54		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
60		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
66		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
72		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
78		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
84		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
90	80.0	80.0	-	-	90.0	100.0	90.0	100.0	
96	80.0	80.0	-	-	90.0	100.0	90.0	100.0	
30	84	80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
36		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
42		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
48		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
54		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
60		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
66		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
72		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
78		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
84		80.0	80.0	-	-	90.0	100.0	90.0	100.0
90	80.0	80.0	-	-	90.0	100.0	90.0	100.0	
96	-	-	-	-	90.0	100.0	90.0	100.0	
30	90	80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
36		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
42		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
48		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
54		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
60		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
66		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
72		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
78		80.0	80.0	-	-	90.0	100.0	90.0	100.0
84		80.0	80.0	-	-	90.0	100.0	90.0	100.0
90	-	-	-	-	90.0	100.0	90.0	100.0	
96	-	-	-	-	90.0	100.0	90.0	100.0	
30	96	80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
36		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
42		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
48		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
54		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
60		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
66		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
72		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
78		80.0	80.0	-	-	90.0	100.0	90.0	100.0
84		-	-	-	-	90.0	100.0	90.0	100.0
90	-	-	-	-	90.0	100.0	90.0	100.0	
96	-	-	-	-	-	-	65.0	67.0	
30	102	80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
36		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
42		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
48		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
54		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
60		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
66		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
72		80.0	80.0	-	-	90.0	100.0	90.0	100.0
78		-	-	-	-	90.0	100.0	90.0	100.0
84		-	-	-	-	90.0	100.0	90.0	100.0
90	-	-	-	-	-	-	65.0	67.0	
96	-	-	-	-	-	-	65.0	67.0	

NOMINAL DIMS		DESIGN LOAD CAPACITY (PSF)							
		MULLION - M1		MULLION - M2		MULLION - M3		MULLION - M4	
TW/TH (IN.)	SPAN (IN.)	POS (+)	NEG (-)	POS (+)	NEG (-)	POS (+)	NEG (-)	POS (+)	NEG (-)
30	108	80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
36		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
42		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
48		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
54		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
60		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
66		80.0	80.0	-	-	90.0	100.0	90.0	100.0
72		-	-	-	-	90.0	100.0	90.0	100.0
78		-	-	-	-	90.0	100.0	90.0	100.0
84		-	-	-	-	-	-	65.0	67.0
90	-	-	-	-	-	-	65.0	67.0	
96	-	-	-	-	-	-	65.0	67.0	
30	114	80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
36		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
42		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
48		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
54		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
60		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
66		80.0	80.0	-	-	90.0	100.0	90.0	100.0
72		-	-	-	-	90.0	100.0	90.0	100.0
78		-	-	-	-	-	-	65.0	67.0
84		-	-	-	-	-	-	65.0	67.0
90	-	-	-	-	-	-	65.0	67.0	
96	-	-	-	-	-	-	65.0	67.0	
30	120	80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
36		80.0	80.0	85.0	100.0	110.0	130.0	110.0	130.0
42		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
48		80.0	80.0	85.0	100.0	90.0	100.0	90.0	100.0
54		80.0	80.0	-	-	90.0	100.0	90.0	100.0
60		80.0	80.0	-	-	90.0	100.0	90.0	100.0
66		-	-	-	-	90.0	100.0	90.0	100.0
72		-	-	-	-	90.0	100.0	90.0	100.0
78		-	-	-	-	-	-	65.0	67.0
84		-	-	-	-	-	-	65.0	67.0
90	-	-	-	-	-	-	65.0	67.0	
96	-	-	-	-	-	-	65.0	67.0	
30	126	-	-	85.0	100.0	90.0	100.0	90.0	100.0
36		-	-	85.0	100.0	90.0	100.0	90.0	100.0
42		-	-	85.0	100.0	90.0	100.0	90.0	100.0
48		-	-	85.0	100.0	90.0	100.0	90.0	100.0
54		-	-	85.0	100.0	90.0	100.0	90.0	100.0
60		-	-	-	-	90.0	100.0	90.0	100.0
66		-	-	-	-	90.0	100.0	90.0	100.0
72		-	-	-	-	-	-	65.0	67.0
78		-	-	-	-	-	-	65.0	67.0
84		-	-	-	-	-	-	65.0	67.0
90	-	-	-	-	-	-	65.0	67.0	
96	-	-	-	-	-	-	65.0	67.0	
30	132	-	-	85.0	100.0	90.0	100.0	90.0	100.0
36		-	-	85.0	100.0	90.0	100.0	90.0	100.0
42		-	-	85.0	100.0	90.0	100.0	90.0	100.0
48		-	-	85.0	100.0	90.0	100.0	90.0	100.0
54		-	-	-	-	90.0	100.0	90.0	100.0
60		-	-	-	-	90.0	100.0	90.0	100.0
66		-	-	-	-	-	-	65.0	67.0
72		-	-	-	-	-	-	65.0	67.0
78		-	-	-	-	-	-	65.0	67.0
84		-	-	-	-	-	-	65.0	67.0
90	-	-	-	-	-	-	65.0	67.0	
96	-	-	-	-	-	-	65.0	67.0	
30	138	-	-	85.0	100.0	90.0	100.0	90.0	100.0
36		-	-	85.0	100.0	90.0	100.0	90.0	100.0
42		-	-	85.0	100.0	90.0	100.0	90.0	100.0
48		-	-	85.0	100.0	90.0	100.0	90.0	100.0
54		-	-	-	-	90.0	100.0	90.0	100.0
60		-	-	-	-	90.0	100.0	90.0	100.0
66		-	-	-	-	-	-	65.0	67.0
72		-	-	-	-	-	-	65.0	67.0
78		-	-	-	-	-	-	65.0	67.0
84		-	-	-	-	-	-	65.0	67.0
90	-	-	-	-	-	-	65.0	67.0	
96	-	-	-	-	-	-	65.0	67.0	

DESIGN LOAD CAPACITY (PSF)									
NOMINAL DIMS	MULLION - M1		MULLION - M2		MULLION - M3		MULLION - M4		
TW/TH (IN.)	SPAN (IN.)	POS (+)	NEG (-)	POS (+)	NEG (-)	POS (+)	NEG (-)	POS (+)	NEG (-)
30	144	-	-	85.0	100.0	90.0	100.0	90.0	100.0
36		-	-	85.0	100.0	90.0	100.0	90.0	100.0
42		-	-	85.0	100.0	90.0	100.0	90.0	100.0
48		-	-	85.0	100.0	90.0	100.0	90.0	100.0
54		-	-	-	-	90.0	100.0	90.0	100.0
60		-	-	-	-	90.0	100.0	90.0	100.0
66		-	-	-	-	-	-	65.0	67.0
72		-	-	-	-	-	-	65.0	67.0
78		-	-	-	-	-	-	65.0	67.0
84		-	-	-	-	-	-	65.0	67.0
90		-	-	-	-	-	-	65.0	67.0
96		-	-	-	-	-	-	65.0	67.0
30	150	-	-	-	-	-	-	65.0	67.0
36		-	-	-	-	-	-	65.0	67.0
42		-	-	-	-	-	-	65.0	67.0
48		-	-	-	-	-	-	65.0	67.0
54		-	-	-	-	-	-	65.0	67.0
60		-	-	-	-	-	-	65.0	67.0
66		-	-	-	-	-	-	65.0	67.0
72		-	-	-	-	-	-	65.0	67.0
78		-	-	-	-	-	-	65.0	67.0
84		-	-	-	-	-	-	65.0	67.0
90		-	-	-	-	-	-	65.0	67.0
30		156	-	-	-	-	-	-	65.0
36	-		-	-	-	-	-	65.0	67.0
42	-		-	-	-	-	-	65.0	67.0
48	-		-	-	-	-	-	65.0	67.0
54	-		-	-	-	-	-	65.0	67.0
60	-		-	-	-	-	-	65.0	67.0
66	-		-	-	-	-	-	65.0	67.0
72	-		-	-	-	-	-	65.0	67.0
78	-		-	-	-	-	-	65.0	67.0
84	-		-	-	-	-	-	65.0	67.0
90	-		-	-	-	-	-	65.0	67.0
30	162		-	-	-	-	-	-	65.0
36		-	-	-	-	-	-	65.0	67.0
42		-	-	-	-	-	-	65.0	67.0
48		-	-	-	-	-	-	65.0	67.0
54		-	-	-	-	-	-	65.0	67.0
60		-	-	-	-	-	-	65.0	67.0
66		-	-	-	-	-	-	65.0	67.0
72		-	-	-	-	-	-	65.0	67.0
78		-	-	-	-	-	-	65.0	67.0
84		-	-	-	-	-	-	65.0	67.0
90		-	-	-	-	-	-	65.0	67.0
30		168	-	-	-	-	-	-	65.0
36	-		-	-	-	-	-	65.0	67.0
42	-		-	-	-	-	-	65.0	67.0
48	-		-	-	-	-	-	65.0	67.0
54	-		-	-	-	-	-	65.0	67.0
60	-		-	-	-	-	-	65.0	67.0
66	-		-	-	-	-	-	65.0	67.0
72	-		-	-	-	-	-	65.0	67.0
78	-		-	-	-	-	-	65.0	67.0
84	-		-	-	-	-	-	65.0	67.0
90	-		-	-	-	-	-	65.0	67.0



NOTE:

- 1) MULLION CHART APPLIES TO ONE-WAY, STACK, OR RIBBON CONFIGURATIONS.
- 2) MAXIMUM DEFLECTION HAS BEEN LIMITED TO $L/180$.
- 3) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FLORIDA PRODUCT APPROVAL.



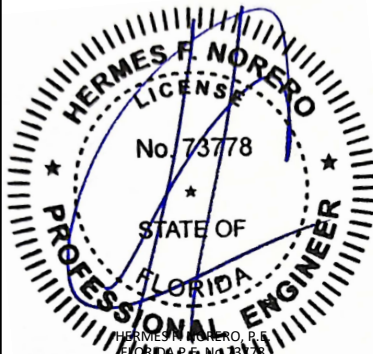
2790 NW 104TH COURT
DORAL, FL 33172
PH: (305) 599-8093

TITLE: **SERIES ALUMINUM MULLIONS
(HVHZ)(IMPACT)**

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
MULLION ADDITION	FB	04/25

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 P. LOPEZ, P.E.
FLORIDA PE No. 3176
BUILDING DROPS, INC
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL20400**

DATE: 02.20.2024

DWG. BY: SH	CHK. BY: HFN
-----------------------	------------------------

SCALE: NTS

DWG. #: LFT013

SHEET:

c:\users\franciscobriceno\building drops, inc\building drops landing - common\projects\la finestra, c\pc-24-1248.1 - fbc submittal - new mullion - 010507 & 020400 revisions\dwgs\lft013.dwg 4/25/2025 1:57 PM

MULLION CLIP CAPACITY TABLES

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)				
NOMINAL DIMS.		CLIP - C1	CLIP - C2/C4	CLIP - C3/C5
WIDTH (IN.)	FRAME HEIGHT (IN.)			
30	72	130.0	130.0	130.0
36		130.0	130.0	130.0
42		130.0	130.0	130.0
48		130.0	128.3	130.0
54		125.0	114.1	130.0
60		112.5	102.7	130.0
66		102.2	93.3	130.0
72		93.7	85.6	130.0
78		86.5	79.0	130.0
84		80.3	73.3	130.0
90	78	75.0	68.4	130.0
96		70.3	64.2	128.3
30		130.0	130.0	130.0
36		130.0	130.0	130.0
42		130.0	130.0	130.0
48		129.8	118.5	130.0
54		115.3	105.3	130.0
60		103.8	94.8	130.0
66		94.4	86.2	130.0
72		86.5	79.0	130.0
78		79.9	72.9	130.0
84	84	74.2	67.7	130.0
90		69.2	63.2	126.4
96		64.9	59.2	118.5
30		130.0	130.0	130.0
36		130.0	130.0	130.0
42		130.0	125.7	130.0
48		120.5	110.0	130.0
54		107.1	97.8	130.0
60		96.4	88.0	130.0
66		87.6	80.0	130.0
72		80.3	73.3	130.0
78	90	74.2	67.7	130.0
84		68.9	62.9	125.7
90		64.3	58.7	117.3
96		60.2	55.0	110.0
30		130.0	130.0	130.0
36		130.0	130.0	130.0
42		128.5	117.3	130.0
48		112.5	102.7	130.0
54		100.0	91.3	130.0
60		90.0	82.1	130.0
66		81.8	74.7	130.0
72		75.0	68.4	130.0
78		69.2	63.2	126.4
84		64.3	58.7	117.3
90		60.0	54.8	109.5
96		56.2	51.3	102.7

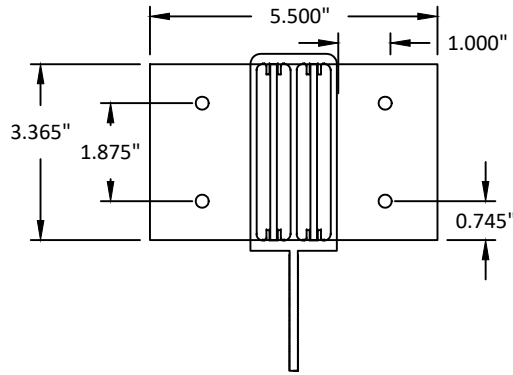
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)				
NOMINAL DIMS.		CLIP - C1	CLIP - C2/C4	CLIP - C3/C5
WIDTH (IN.)	FRAME HEIGHT (IN.)			
30	96	130.0	130.0	130.0
36		130.0	128.3	130.0
42		120.5	110.0	130.0
48		105.4	96.3	130.0
54		93.7	85.6	130.0
60		84.3	77.0	130.0
66		76.7	70.0	130.0
72		70.3	64.2	128.3
78		64.9	59.2	118.5
84		60.2	55.0	110.0
90	102	56.2	51.3	102.7
96		52.7	48.1	96.3
30		130.0	130.0	130.0
36		130.0	120.8	130.0
42		113.4	103.5	130.0
48		99.2	90.6	130.0
54		88.2	80.5	130.0
60		79.4	72.5	130.0
66		72.2	65.9	130.0
72		66.2	60.4	120.8
78		61.1	55.7	111.5
84	108	56.7	51.8	103.5
90		52.9	48.3	96.6
96		49.6	45.3	90.6
30		130.0	130.0	130.0
36		125.0	114.1	130.0
42		107.1	97.8	130.0
48		93.7	85.6	130.0
54		83.3	76.0	130.0
60		75.0	68.4	130.0
66		68.2	62.2	124.4
72		62.5	57.0	114.1
78	114	57.7	52.6	105.3
84		53.6	48.9	97.8
90		50.0	45.6	91.3
96		46.9	42.8	85.6
30		130.0	129.7	130.0
36		118.4	108.1	130.0
42		101.5	92.6	130.0
48		88.8	81.1	130.0
54		78.9	72.0	130.0
60		71.0	64.8	129.7
66		64.6	58.9	117.9
72		59.2	54.0	108.1
78		54.6	49.9	99.8
84		50.7	46.3	92.6
90		47.4	43.2	86.5
96		44.4	40.5	81.1

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)				
NOMINAL DIMS.		CLIP - C1	CLIP - C2/C4	CLIP - C3/C5
WIDTH (IN.)	FRAME HEIGHT (IN.)			
30	120	130.0	123.2	130.0
36		112.5	102.7	130.0
42		96.4	88.0	130.0
48		84.3	77.0	130.0
54		75.0	68.4	130.0
60		67.5	61.6	123.2
66		61.3	56.0	112.0
72		56.2	51.3	102.7
78		51.9	47.4	94.8
84		48.2	44.0	88.0
90	126	45.0	41.1	82.1
96		42.2	38.5	77.0
30		128.5	117.3	130.0
36		107.1	97.8	130.0
42		91.8	83.8	130.0
48		80.3	73.3	130.0
54		71.4	65.2	130.0
60		64.3	58.7	117.3
66		58.4	53.3	106.7
72		53.6	48.9	97.8
78	132	49.4	45.1	90.3
84		45.9	41.9	83.8
90		42.8	39.1	78.2
96		40.2	36.7	73.3
30		122.7	112.0	130.0
36		102.2	93.3	130.0
42		87.6	80.0	130.0
48		76.7	70.0	130.0
54		68.2	62.2	124.4
60		61.3	56.0	112.0
66	138	55.8	50.9	101.8
72		51.1	46.7	93.3
78		47.2	43.1	86.2
84		43.8	40.0	80.0
90		40.9	37.3	74.7
96		38.3	35.0	70.0
30		117.4	107.1	130.0
36		97.8	89.3	130.0
42		83.8	76.5	130.0
48		73.3	67.0	130.0
54	144	65.2	59.5	119.0
60		58.7	53.6	107.1
66		53.3	48.7	97.4
72		48.9	44.6	89.3
78		45.1	41.2	82.4
84		41.9	38.3	76.5
90		39.1	35.7	71.4
96		36.7	33.5	67.0

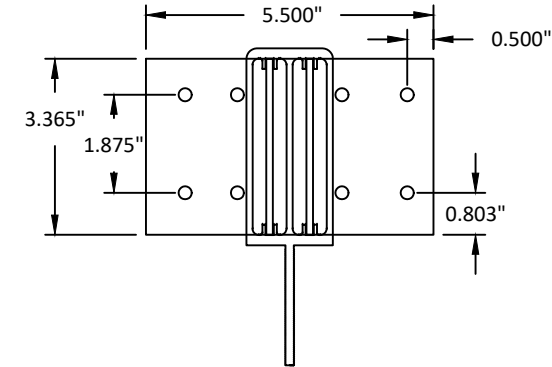
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)				
NOMINAL DIMS.		CLIP - C1	CLIP - C2/C4	CLIP - C3/C5
WIDTH (IN.)	FRAME HEIGHT (IN.)			
30	144	112.5	102.7	130.0
36		93.7	85.6	130.0
42		80.3	73.3	130.0
48		70.3	64.2	128.3
54		62.5	57.0	114.1
60		56.2	51.3	102.7
66		51.1	46.7	93.3
72		46.9	42.8	85.6
78		43.3	39.5	79.0
84		40.2	36.7	73.3
90	150	37.5	34.2	68.4
96		35.1	32.1	64.2
30		108.0	98.6	130.0
36		90.0	82.1	130.0
42		77.1	70.4	130.0
48		67.5	61.6	123.2
54		60.0	54.8	109.5
60		54.0	49.3	98.6
66		49.1	44.8	89.6
72		45.0	41.1	82.1
78	156	41.5	37.9	75.8
84		38.6	35.2	70.4
90		36.0	32.9	65.7
96		33.7	30.8	61.6
30		103.8	94.8	130.0
36		86.5	79.0	130.0
42		74.2	67.7	130.0
48		64.9	59.2	118.5
54		57.7	52.6	105.3
60		51.9	47.4	94.8
66	162	47.2	43.1	86.2
72		43.3	39.5	79.0
78		39.9	36.4	72.9
84		37.1	33.8	67.7
90		34.6	31.6	63.2
96		32.4	29.6	59.2
30		100.0	91.3	130.0
36		83.3	76.0	130.0
42		71.4	65.2	130.0
48		62.5	57.0	114.1
54	168	55.5	50.7	101.4
60		50.0	45.6	91.3
66		45.4	41.5	83.0
72		41.7	38.0	76.0
78		38.4	35.1	70.2
84		35.7	32.6	65.2
90		33.3	30.4	60.8
96		31.2	28.5	57.0
30		96.4	88.0	130.0
36		80.3	73.3	130.0
42	174	68.9	62.9	125.7
48		60.2	55.0	110.0
54		53.6	48.9	97.8
60		48.2	44.0	88.0
66		43.8	40.0	80.0
72				
78				
84				

NOTE: CLIP ITEM #7 IS EQUIVALENT TO CLIP-C2.

NOTE: CLIPS SHOWN ARE FOR INTERMEDIATE MULLIONS. JAMB, HEAD, & SILL CLIPS ARE F-CLIPS AND USE HALF THE ANCHORS. REFER TO SHEET 8 FOR ALL CLIP OPTIONS.

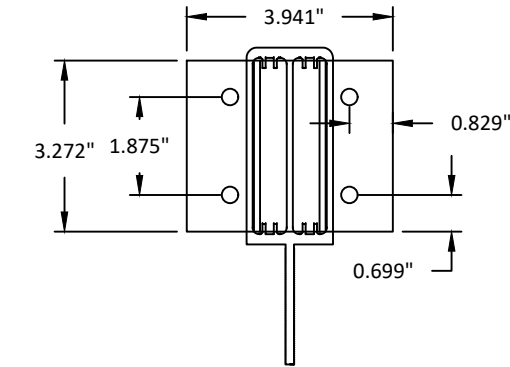


CLIP - C2

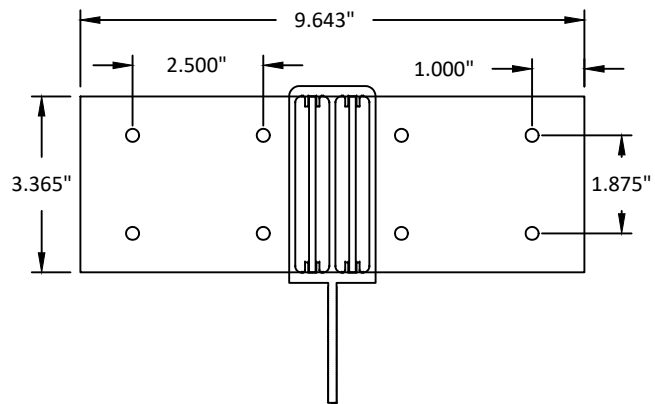


CLIP - C3

*NOTE CANNOT BE USED WITH CONCRETE ANCHORS



CLIP - C4



CLIP - C5



2790 NW 104TH COURT
DORAL, FL 33172
PH: (305) 599-8093

TITLE: SERIES ALUMINUM MULLIONS
(HVHZ)(IMPACT)

MULLION CLIP
CAPACITY TABLES

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



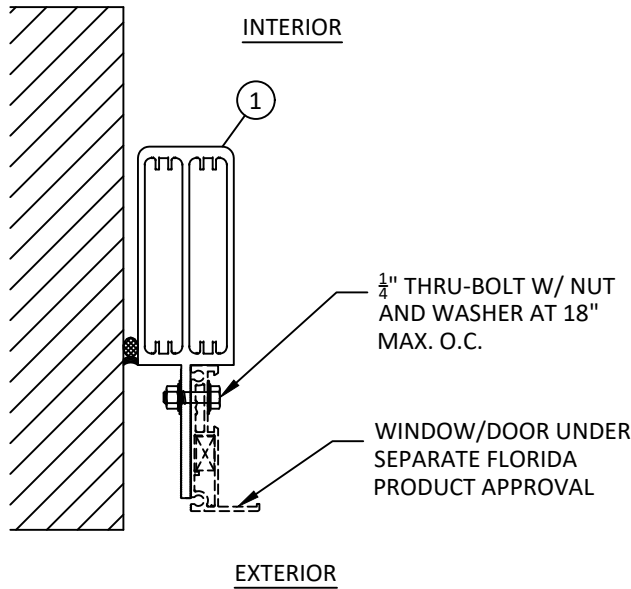
REMARKS	BY	DATE
MULLION ADDITION	FB	04/25

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.

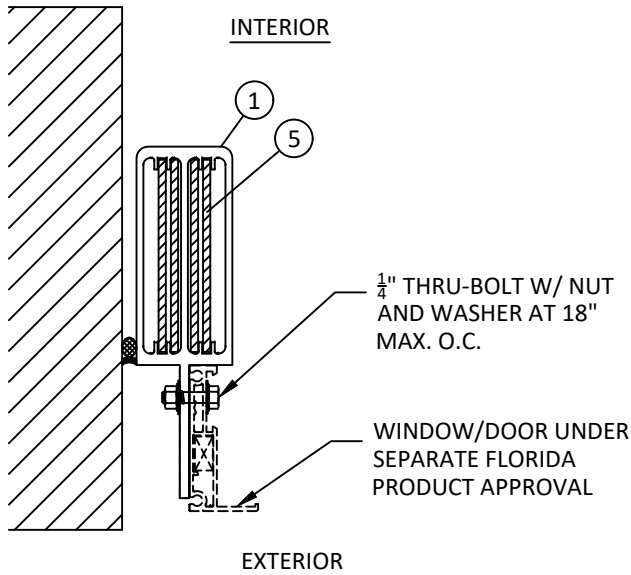


FL #:		FL20400
DATE: 02.20.2024		
DWG. BY:	SH	CHK. BY: HFN
SCALE:		NTS
DWG. #:		LFT013
SHEET:		

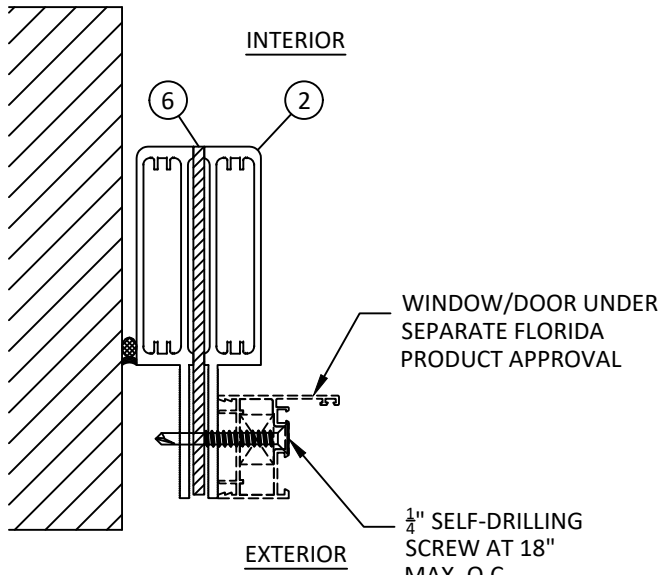
c:\users\franciscobriceno\building drops, inc\building drops landing - common\projects\la finestra, lc\lft-24-1248.1 - fbc submittal - new mullion - 010507 & 020400 revisions\dwgs\lft013.dwg 4/25/2025 1:57 PM



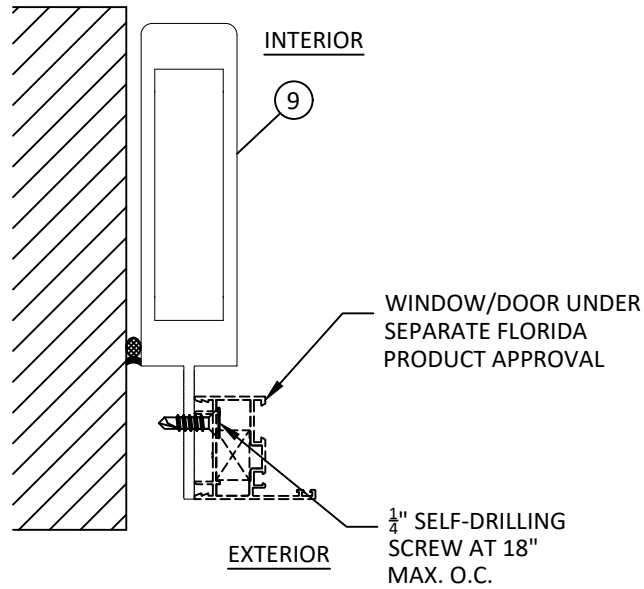
A
5 **MULLION AT JAMB**
MULLION - M1



B
5 **MULLION AT JAMB**
MULLION - M2

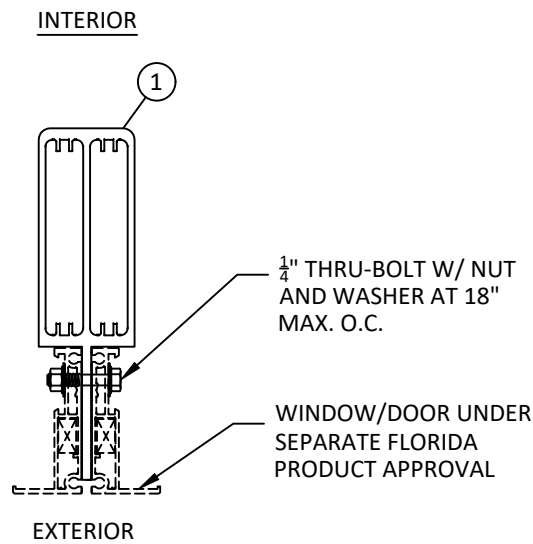


C
5 **MULLION AT JAMB**
MULLION - M3

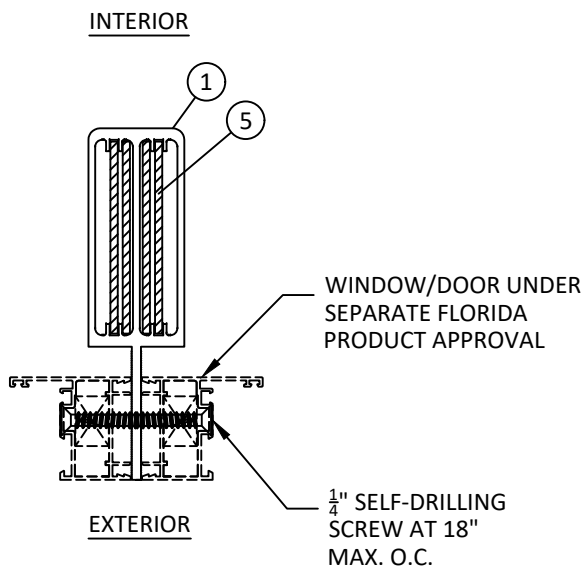


D
5 **MULLION AT JAMB**
MULLION - M4

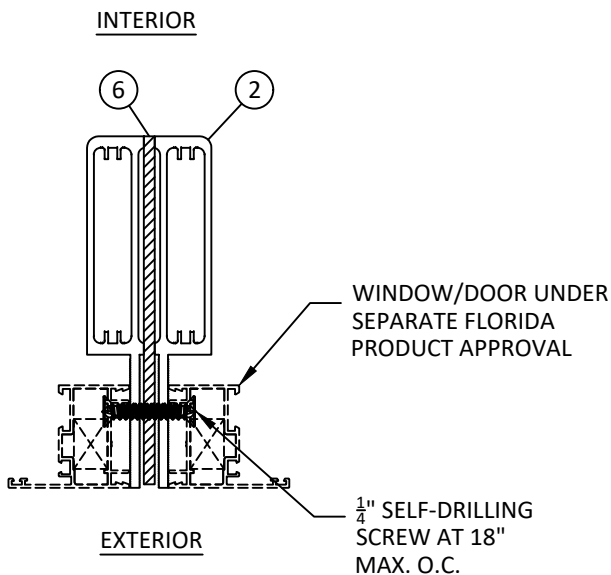
NOTE: HEAD & SILL
MULLION SIMILAR.



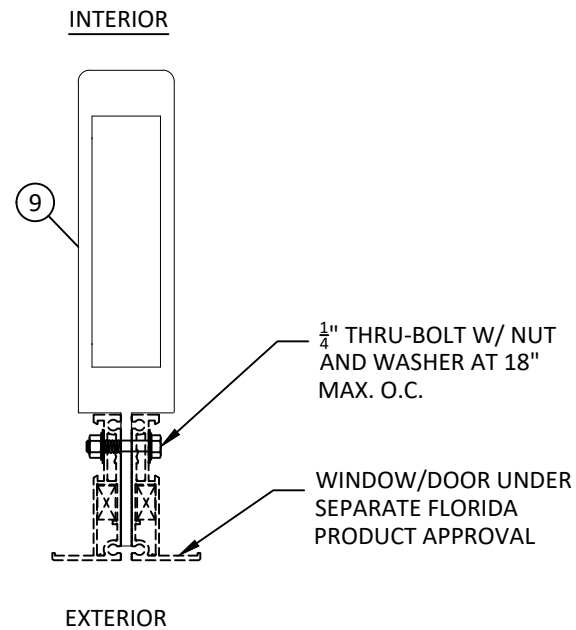
E
5 **VERTICAL MULLION**
MULLION - M1



F
5 **VERTICAL MULLION**
MULLION - M2



G
5 **VERTICAL MULLION**
MULLION - M3



H
5 **VERTICAL MULLION**
MULLION - M4



2790 NW 104TH COURT
DORAL, FL 33172
PH: (305) 599-8093

TITLE: SERIES ALUMINUM MULLIONS
(HVHZ)(IMPACT)

MULLION DETAILS

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132

PH: (954) 399-8478

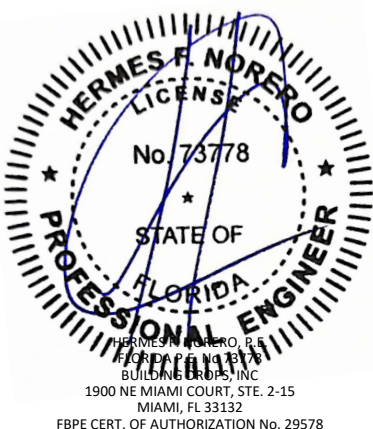
FAX: (954) 744-4738

WEB: www.buildingdrops.com



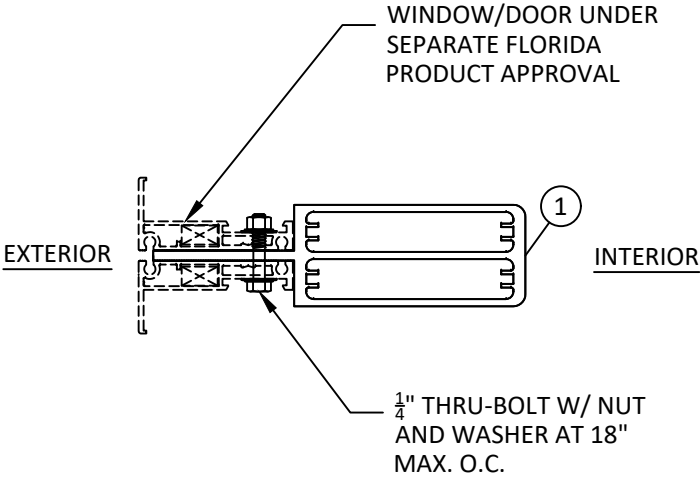
REMARKS	BY	DATE
MULLION ADDITION	FB	04/25

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.

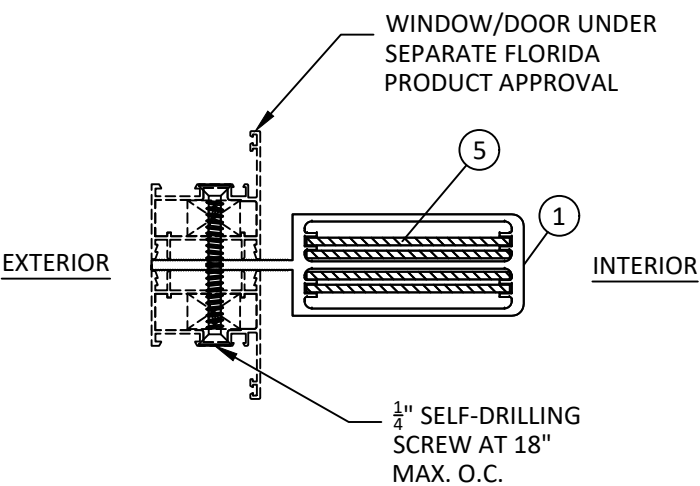


FL #:	FL20400
DATE:	02.20.2024
DWG. BY:	SH
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	LFT013
SHEET:	5

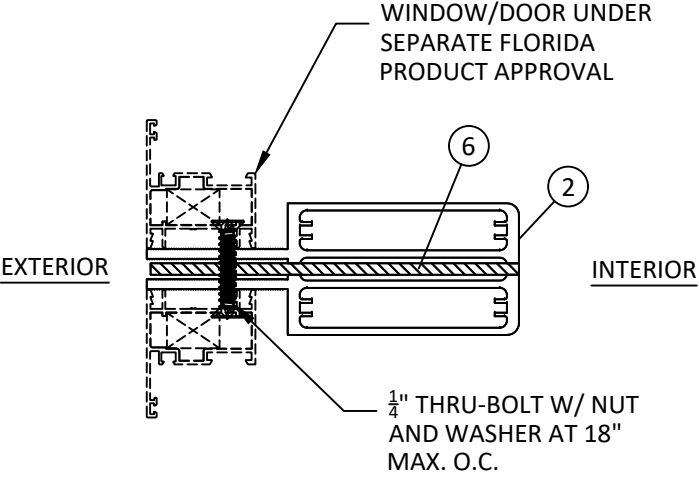
c:\users\franciscobriceno\building drops, inc\building drops landing - common\projects\la finestra, lc\fc-24-1248.1 - fbc submittal - new mullion - 010507 & 020400 revisions\dwgs\lft01.3.dwg 4/25/2025 1:57 PM



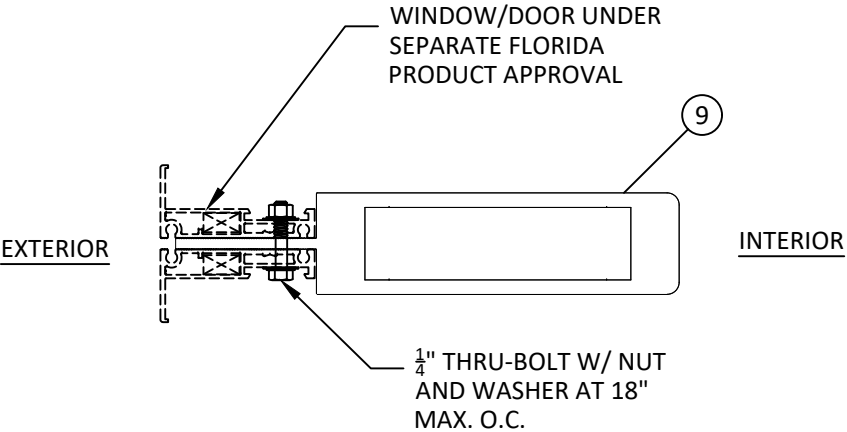
A
6 HORIZONTAL MULLION
MULLION - M1



B
6 HORIZONTAL MULLION
MULLION - M2



C
6 HORIZONTAL MULLION
MULLION - M3



D
6 HORIZONTAL MULLION
MULLION - M4



2790 NW 104TH COURT
DORAL, FL 33172
PH: (305) 599-8093

TITLE: SERIES ALUMINUM MULLIONS
(HVHZ)(IMPACT)

MULLION DETAILS

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15

MIAMI, FL 33132

PH: (954) 399-8478

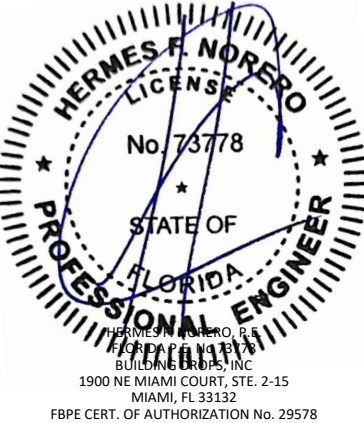
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
MULLION ADDITION	FB	04/25

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 #:	FL20400
DATE:	02.20.2024
DWG. BY:	CHK. BY:
SH	HFN
SCALE:	NTS
DWG. #:	LFT013
SHEET:	6 OF 8

c:\users\franciscobreno\building drops, inc\building drops landing - common\projects\la finestra, lc\fc-24-1248.1 - fbc submittal - new mullion - f18507 & f120400 revisions\dwgs\lft013.dwg 4/25/2025 1:57 PM



2790 NW 104TH COURT
DORAL, FL 33172
PH: (305) 599-8093

TITLE: SERIES ALUMINUM MULLIONS
(HVHZ)(IMPACT)
INSTALLATION DETAILS &
ANCHOR SCHEDULE

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
MULLION ADDITION	FB	04/25

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 #:
FL20400

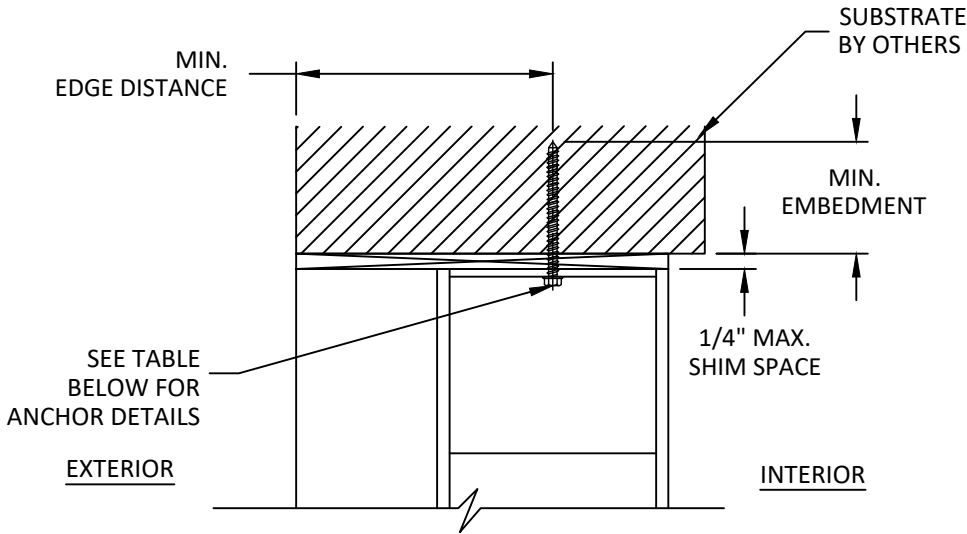
DATE: **02.20.2024**

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

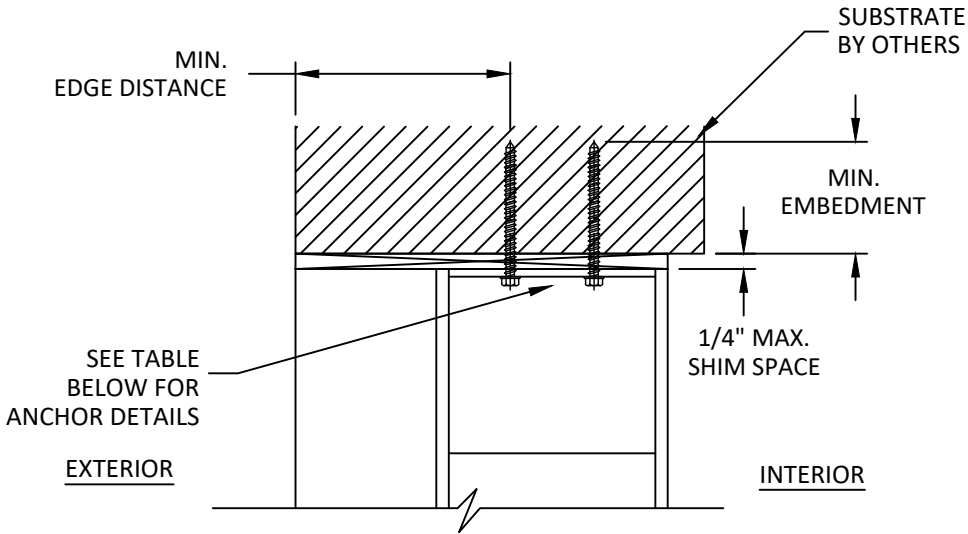
SCALE: **NTS**

DWG. #: **LFT013**

SHEET:
7
OF 8



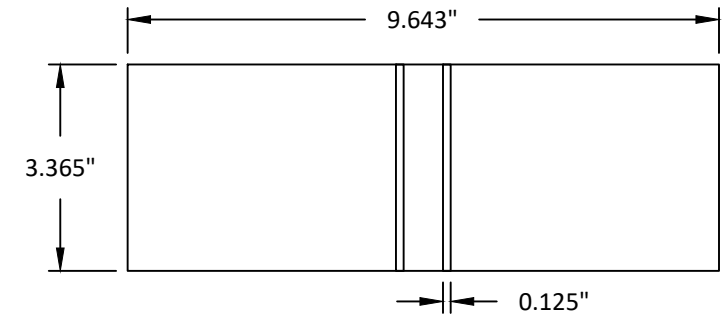
A
7 INSTALLATION DETAIL
MULLION CLIP - C1



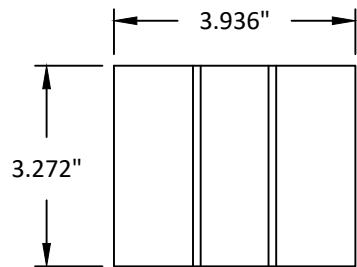
B
7 INSTALLATION DETAIL
MULLION CLIP - C2
MULLION CLIP - C3 SIMILAR

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME/ MULLION CLIPS	WOOD: MIN. SG = 0.55	5/16" DEWALT ULTRACON	1.50"	0.75"
	METAL: MIN. 1/8" THK., MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	1/4" SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"
	WOOD: MIN. SG = 0.55	5/16" WOOD SCREW	1.50"	0.75"
	CONCRETE: f'c=3000PSI	5/16" DEWALT ULTRACON	2.00"	3.125"

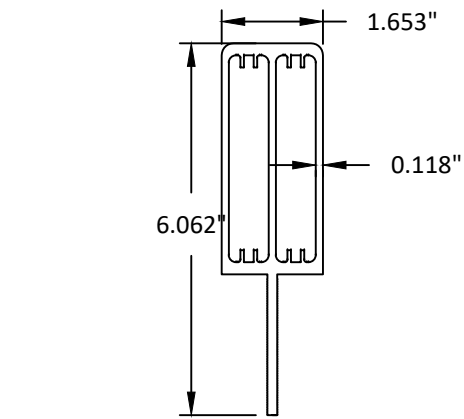
BILL OF MATERIALS			
ITEM	PART NO.	DESCRIPTION	MATERIAL
1	P027570	LARGE MULLION	6063-T6
2	P027570 (MOD.)	LARGE MODIFIED MULLION	6063-T6
3	P027571	T-CLIP LARGE MULLION	6063-T6
4	-	T-CLIP LARGE MULLION	6063-T6
5	-	STEEL REINFORCEMENT	SAE GR. 2 MIN.
6	HRB80	STEEL REINFORCEMENT	SAE GR. 2 MIN.
7	P027571	T-CLIP LARGE MULLION	6063-T6
8	P027571	T-CLIP SMALL MULLION	6063-T6
9	-	SUPER MULLION	6063-T6



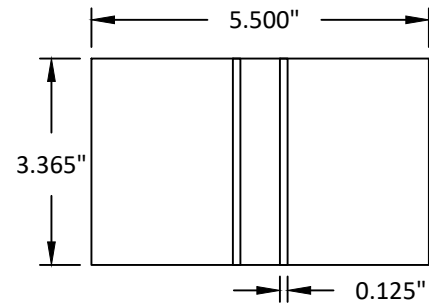
3 T-CLIP LARGE MULLION
6063-T6



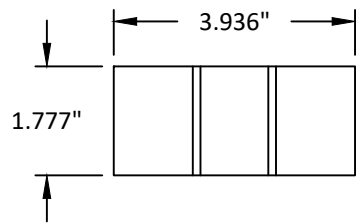
7 T-CLIP LARGE MULLION
6063-T6



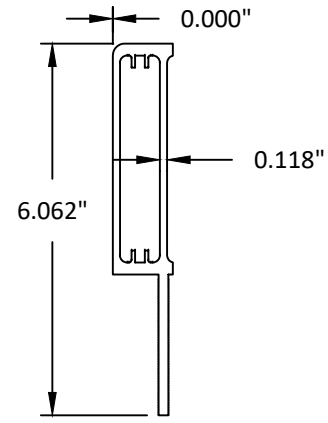
1 LARGE MULLION
6063-T6



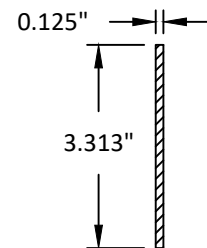
4 T-CLIP LARGE MULLION
6063-T6



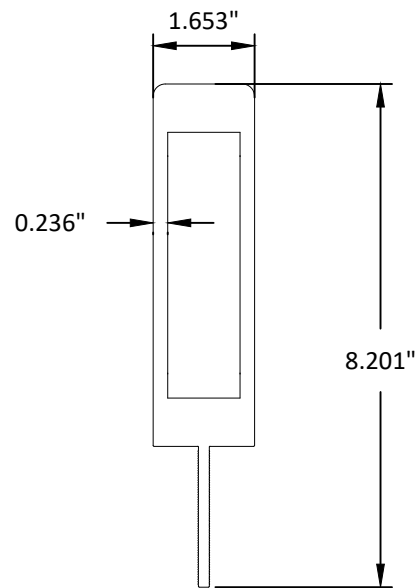
8 T-CLIP SMALL MULLION
6063-T6



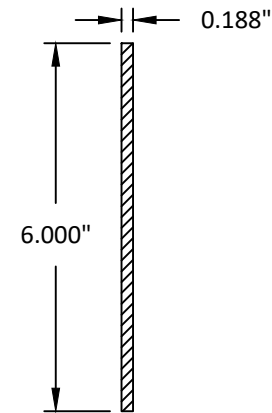
2 LARGE MODIFIED MULLION
6063-T6



5 STEEL REINFORCEMENT
SAE GR. 2 MIN.



9 SUPER MULLION
6063-T6



6 STEEL REINFORCEMENT
SAE GR. 2 MIN.



2790 NW 104TH COURT
DORAL, FL 33172
PH: (305) 599-8093

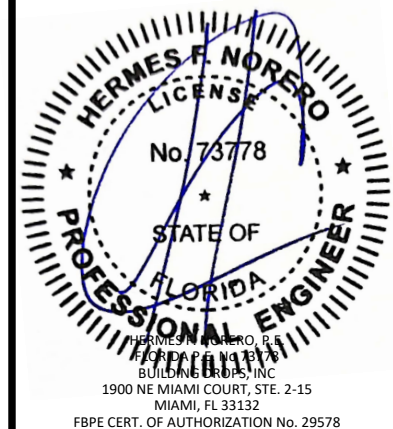
TITLE: SERIES ALUMINUM MULLIONS
(HVHZ)(IMPACT)
BILL OF MATERIALS
& COMPONENTS

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

BUILDING DROPS

REMARKS	BY	DATE
MULLION ADDITION	FB	04/25

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 #:
FL20400

DATE: **02.20.2024**

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

SCALE: **NTS**

DWG. #: **LFT013**

SHEET:
8
OF 8