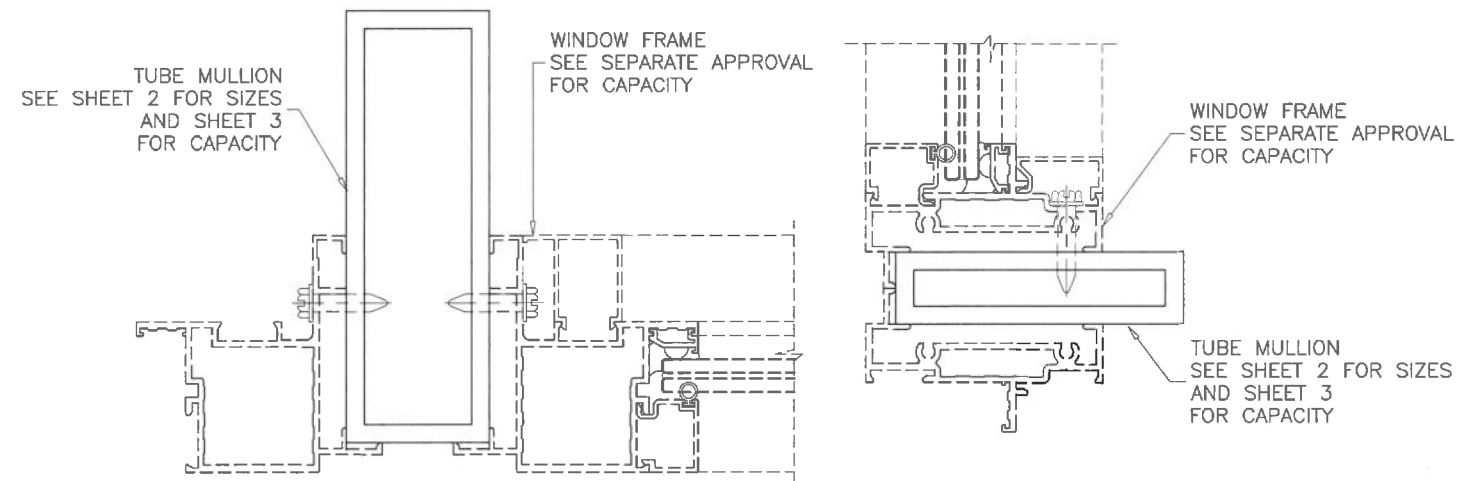


INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.
- STEP 2** USE F.B.C. APPROVED GLAZING PRODUCTS MEETING ABOVE LOAD REQUIREMENTS.
- STEP 3** USE GLAZING PRODUCT CONNECTION TO MULLION AS AS PER PRODUCT APPROVAL.
- STEP 4** USING CHARTS ON SHEET 3 SELECT MULLION SIZE WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** USING ANCHOR TYPES AND ANCHOR CAPACITY CHARTS ON SHEETS 4 THRU 10, SELECT ANCHOR TYPE WITH DESIGN RATING MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.



EXTRUDED ALUMINUM CLIPPED MULLIONS
USING MULLION PROPERTIES ONLY

SEE SEPARATE APPROVALS FOR WINDOWS/DOORS LOAD RATINGS.
LOWER VALUES FROM MULLION APPROVAL OR WINDOW/DOOR APPROVAL
WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE FOR NON HIGH VELOCITY HURRICANE ZONE.

ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE BUILDING CODE REQUIREMENTS I.E: WIND LOAD, WATER INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.
REFER TO AL-FAROOQ STATEMENT OF EQUIVALENCY UPLOADED ALONGSIDE THIS DOCUMENT FOR FURTHER DETAILS.

APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.

INDIVIDUAL UNITS ATTACHED TO MULLIONS MUST BE IMPACT RATED.

APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4. INDIVIDUAL UNITS ATTACHED TO MULLIONS MUST BE IMPACT RATED OR PROTECTED BY SHUTTERS.

Sealed: 8/7/2026

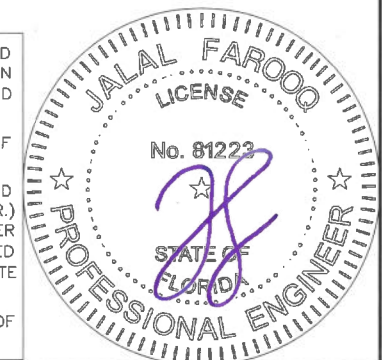
FL #47181

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



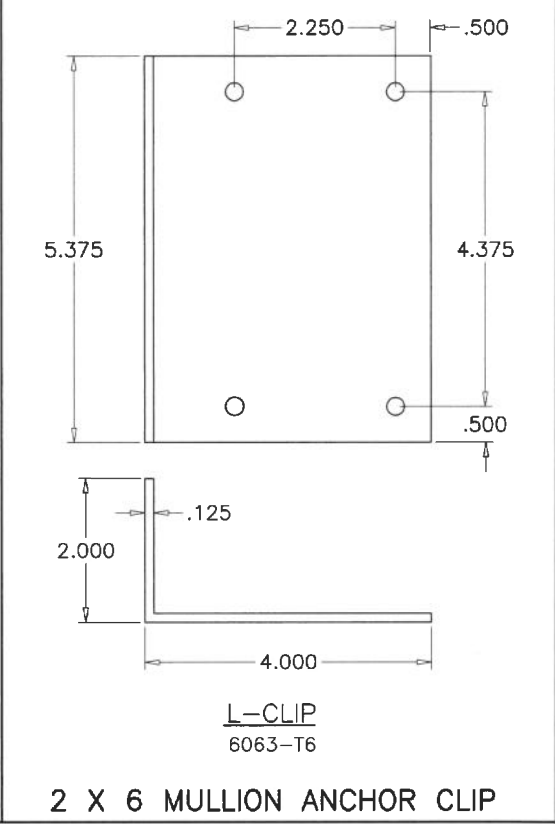
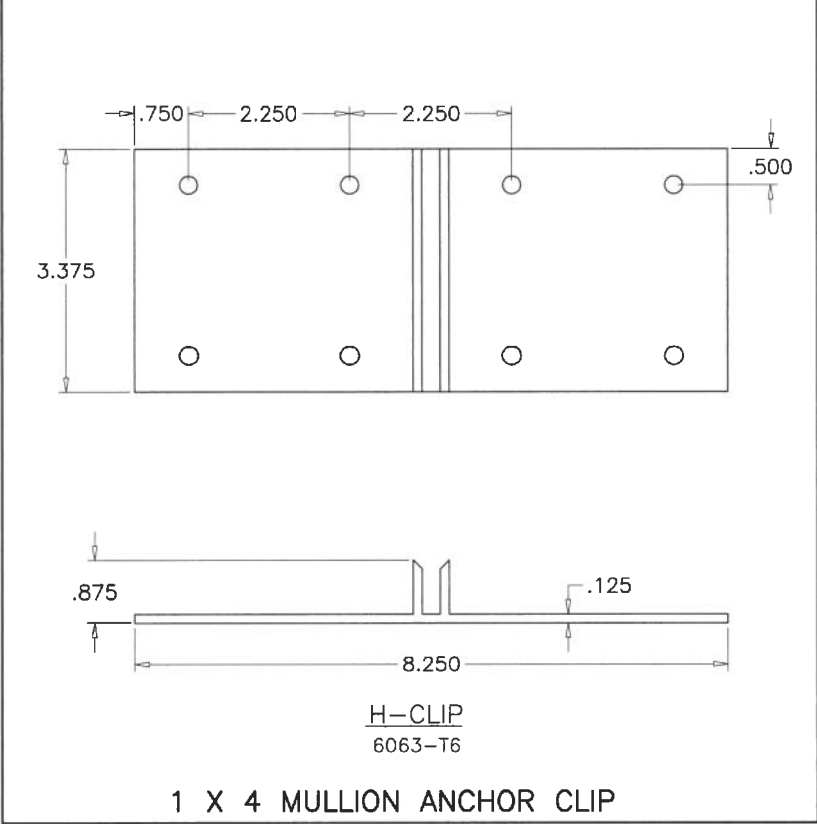
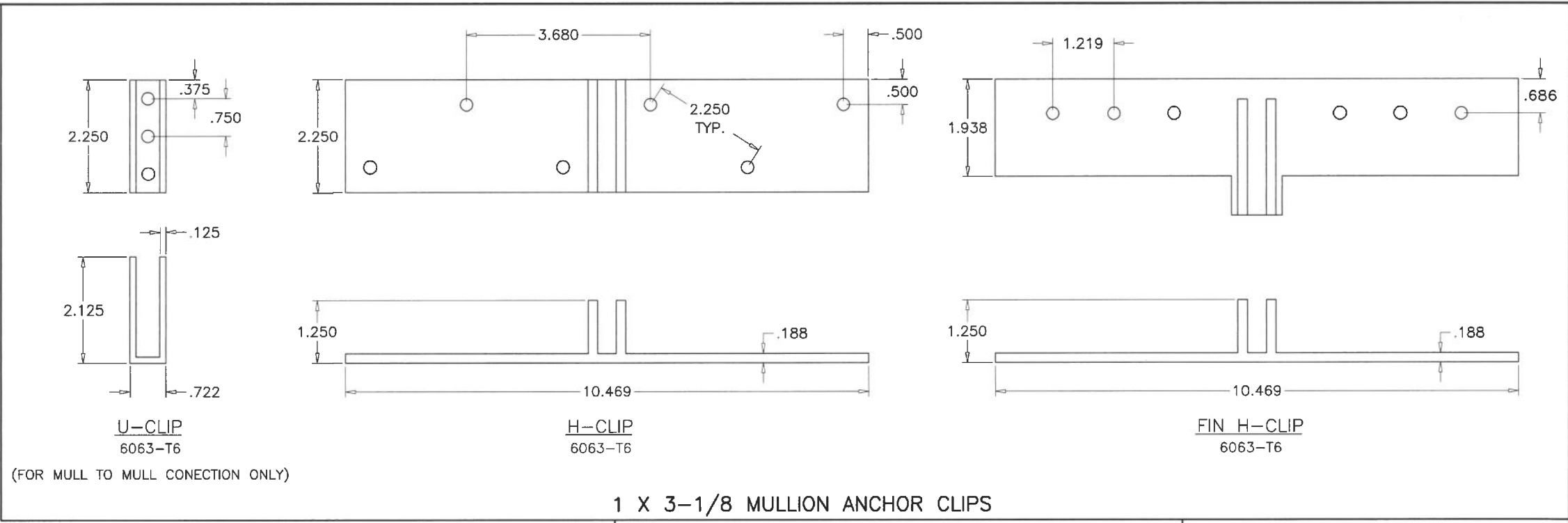
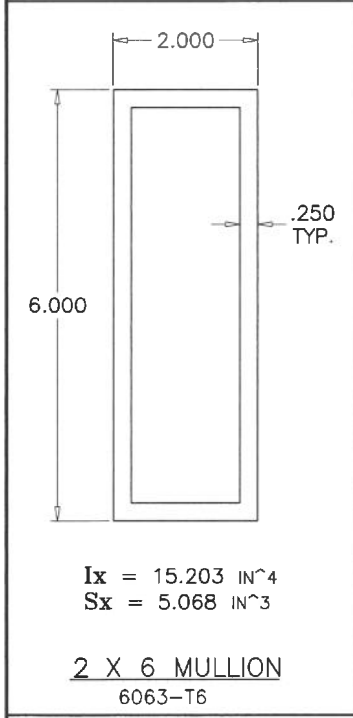
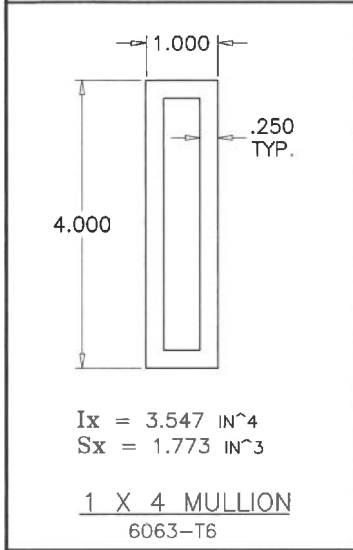
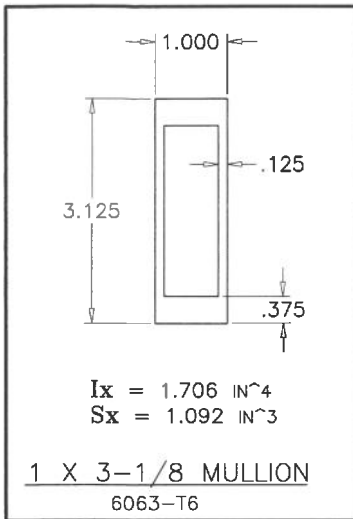
EXTRUDED ALUMINUM CLIPPED MULLIONS

Aldora Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL. 33065

Tel. (954) 784-6900 Fax. (954) 784-6901

date:		10-01-24	
drawing no.		24-70F	
sheet		1 of 10	
scale:		$\frac{3}{8}'' = 1''$	
dr. by:		TARIQ	
chk. by:			
revisions:			
no	date	by	description
A	07.29.26		UPDATED TO 2026 FBC

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 WWW.AFCENG.COM
FBPE #3538 MULLION\24-



Sealed: 8/7/2026



FL #47181

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af c

MULLION\24-70F-AAG

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revisions:	no	date	by	description

date: 10-01-24

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

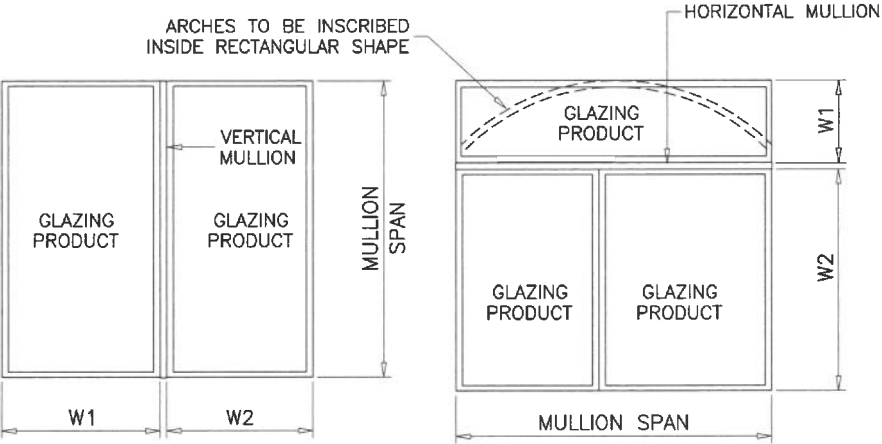
drawing no.

24-70F

sheet 2 of 10

DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		1 X 3-1/8	1 X 4	2 X 6
WIDTH (W)	MULL SPAN	CUSTOM	HEAVY	HEAVY
19-1/8"	38-3/8"	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0
30"		90.0	90.0	90.0
37"		90.0	90.0	90.0
42"		90.0	90.0	90.0
48"		90.0	90.0	90.0
54"		90.0	90.0	90.0
60"		90.0	90.0	90.0
66"	50-5/8"	90.0	90.0	90.0
72"		90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0
30"		90.0	90.0	90.0
37"		90.0	90.0	90.0
42"		90.0	90.0	90.0
48"		90.0	90.0	90.0
54"		90.0	90.0	90.0
60"		90.0	90.0	90.0
66"		90.0	90.0	90.0
72"		88.6	90.0	90.0
19-1/8"	63"	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0
30"		90.0	90.0	90.0
37"		90.0	90.0	90.0
42"		90.0	90.0	90.0
48"		84.2	90.0	90.0
54"		74.8	90.0	90.0
60"		67.3	90.0	90.0
66"	74-1/4"	61.2	90.0	90.0
72"		56.1	90.0	90.0
19-1/8"		90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0
30"		86.2	90.0	90.0
37"		69.9	90.0	90.0
42"		61.6	90.0	90.0
48"		53.9	90.0	90.0
54"	76"	47.9	86.8	90.0
60"		43.1	78.1	90.0
66"		39.2	71.0	90.0
72"		35.9	65.1	90.0
19-1/8"		90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0
30"		80.4	90.0	90.0
37"		65.2	90.0	90.0
42"	84"	57.4	90.0	90.0
48"		50.2	90.0	90.0
54"		44.7	82.6	90.0
60"		40.2	74.4	90.0
66"		36.5	67.6	90.0
72"		33.5	62.0	90.0

DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		1 X 3-1/8	1 X 4	2 X 6
WIDTH (W)	MULL SPAN	CUSTOM	HEAVY	HEAVY
19-1/8"	84"	90.0	90.0	90.0
26-1/2"		67.4	90.0	90.0
30"		59.5	90.0	90.0
37"		48.3	90.0	90.0
42"		42.5	86.1	90.0
48"		37.2	75.3	90.0
54"		33.1	67.0	90.0
60"		29.8	60.3	90.0
66"	96"	27.1	54.8	90.0
72"		24.8	50.2	90.0
19-1/8"		62.6	90.0	90.0
26-1/2"		45.1	90.0	90.0
30"		39.9	82.9	90.0
37"		32.3	67.2	90.0
42"		28.5	59.2	90.0
48"		24.9	51.8	90.0
54"	108"	22.2	46.1	90.0
60"		-	41.5	90.0
66"		-	37.7	90.0
72"		-	34.6	90.0
19-1/8"		43.9	90.0	90.0
26-1/2"		31.7	65.9	90.0
30"		28.0	58.2	90.0
37"		22.7	47.2	90.0
42"	120"	20.0	41.6	90.0
48"		-	36.4	90.0
54"		-	32.4	90.0
60"		-	29.1	90.0
19-1/8"		-	66.6	90.0
26-1/2"		-	48.1	90.0
30"		-	42.5	90.0
37"		-	34.4	90.0
42"	132"	-	30.3	90.0
48"		-	26.5	90.0
54"		-	23.6	90.0
57"		-	22.3	90.0
19-1/8"		-	50.0	90.0
26-1/2"		-	36.1	90.0
30"		-	31.9	90.0
37"		-	25.9	90.0
42"	144"	-	22.8	90.0
48"		-	-	85.5
52"		-	-	78.9
19-1/8"		-	38.5	90.0
26-1/2"		-	27.8	90.0
30"		-	24.6	90.0
37"		-	-	85.4
42"		-	-	75.2
48"		-	-	65.8



TYPICAL MULLION ARRANGEMENTS

WIDTH (W) = $\frac{W1 + W2}{2}$

NOTE:
TUBE MULLIONS RATED IN THESE CHARTS MAY BE ORIENTED
VERTICALLY OR HORIZONTALLY.
(INTERPOLATION BETWEEN WIDTHS ALLOWED)

afcc

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

TEL. (305) 264-8100

WWW.AFCENG.COM

FBPE #8538

MULLION\24-70F--AAG

EXTRUDED ALUMINUM CLIPPED MULLIONS

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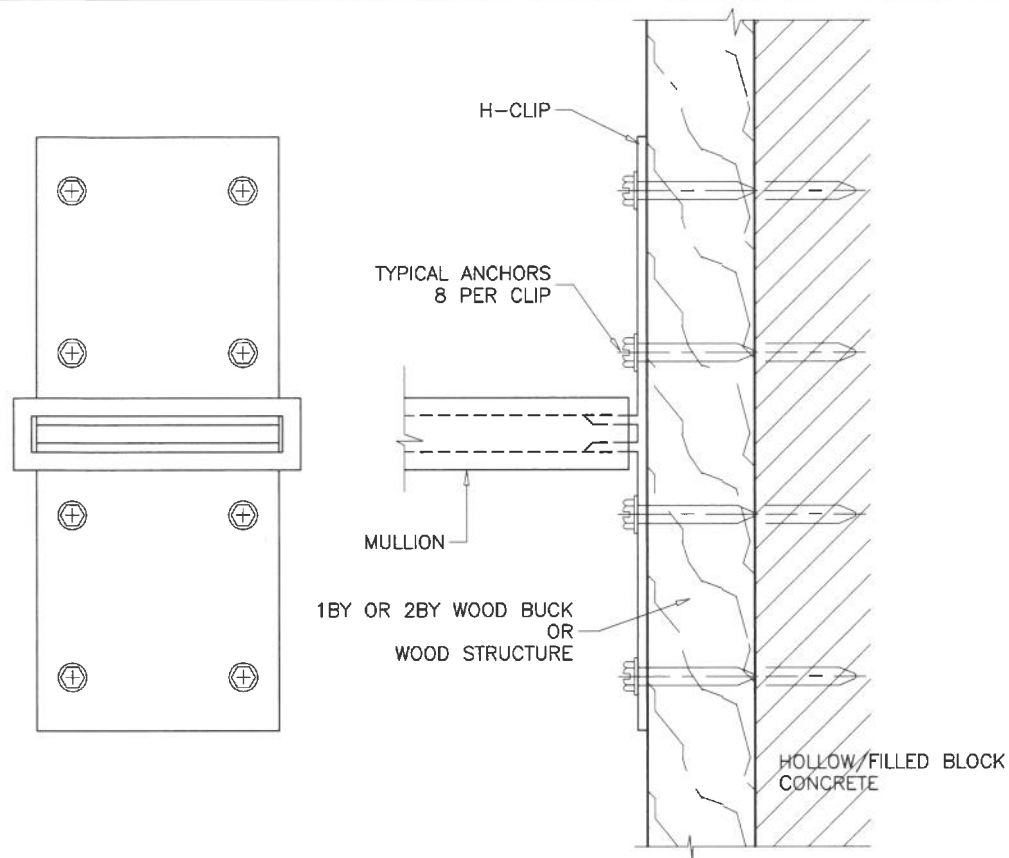
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date:	10-01-24	scale:	-
dr. by:	TARIQ	chk. by:	
drawing no.	24-70F	sheet	3 of 10



ALL LOADS ARE EXT.(+)/INT.(-).

Sealed: 8/7/2026

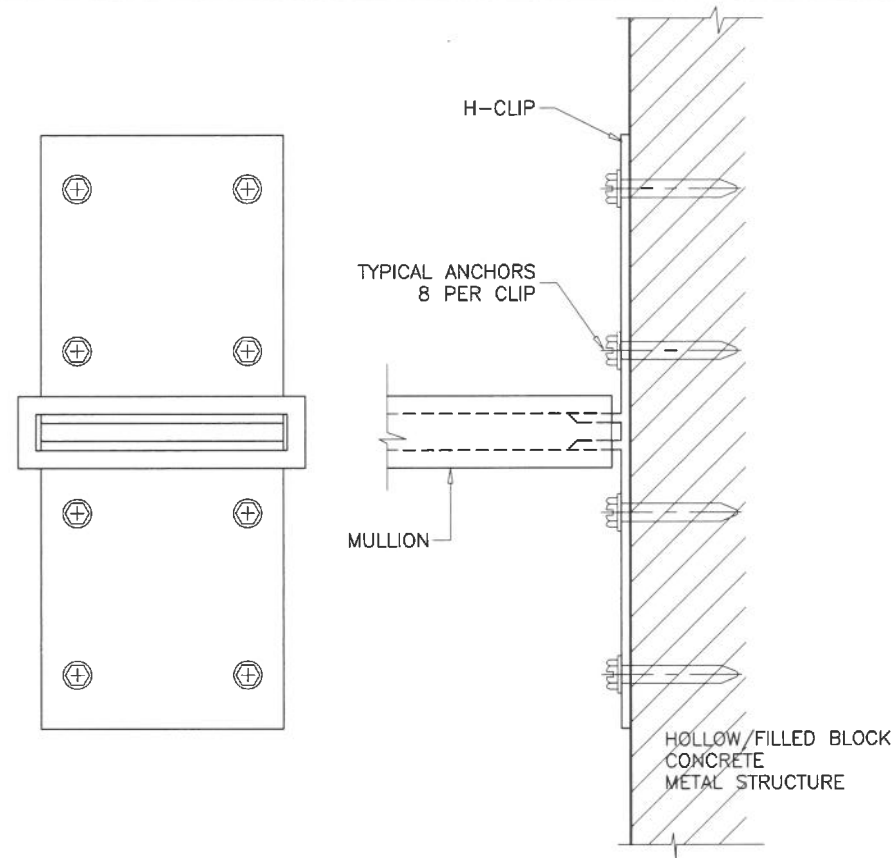
FL #47181



TYPICAL ANCHORS TYPE 'W8', 'B8'

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES (W8)
THRU 1BY BUCKS INTO CONC. OR BLOCKS (B8)

SEE SHEET 7 FOR ANCHOR CAPACITIES



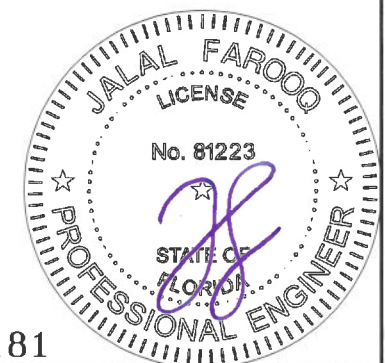
TYPICAL ANCHORS TYPE 'B8', 'C8', 'M8'

DIRECTLY INTO HOLLOW/FILLED BLOCK (B8)
DIRECTLY INTO CONCRETE (C8)
INTO METAL STRUCTURES (M8)

SEE SHEET 7 FOR ANCHOR CAPACITIES

1 X 4 MULLION ANCHOR CLIP

Sealed: 8/7/2026



FL #47181

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revisions:
no date by description

date: 10-01-24
scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

24-70F

sheet 6 of 10

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W8	B8	C8	M8
19-1/8"	38-3/8"	90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0
66"	50-5/8"	90.0	90.0	90.0	90.0
72"		90.0	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"	63"	90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0
66"		90.0	90.0	90.0	90.0
72"		90.0	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"	74-1/4"	90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0
66"		90.0	90.0	90.0	90.0
72"		90.0	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"	76"	90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0
66"		90.0	90.0	90.0	90.0
72"		90.0	90.0	90.0	90.0

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W8	B8	C8	M8
19-1/8"	84"	90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0
66"	96"	90.0	90.0	90.0	90.0
72"		90.0	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"	108"	90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0
66"		90.0	90.0	90.0	90.0
72"		88.0	88.3	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"	120"	90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
57"		88.9	89.3	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"	132"	90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
52"		88.6	89.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"	144"	88.0	88.3	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
52"		88.6	89.0	90.0	90.0

TYPICAL ANCHORS:

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

W8: INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

B8: THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS

B8: DIRECTLY INTO HOLLOW/FILLED BLOCKS
1-1/4" MIN. EMBED INTO BLOCKS

C8: DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)

M8: INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

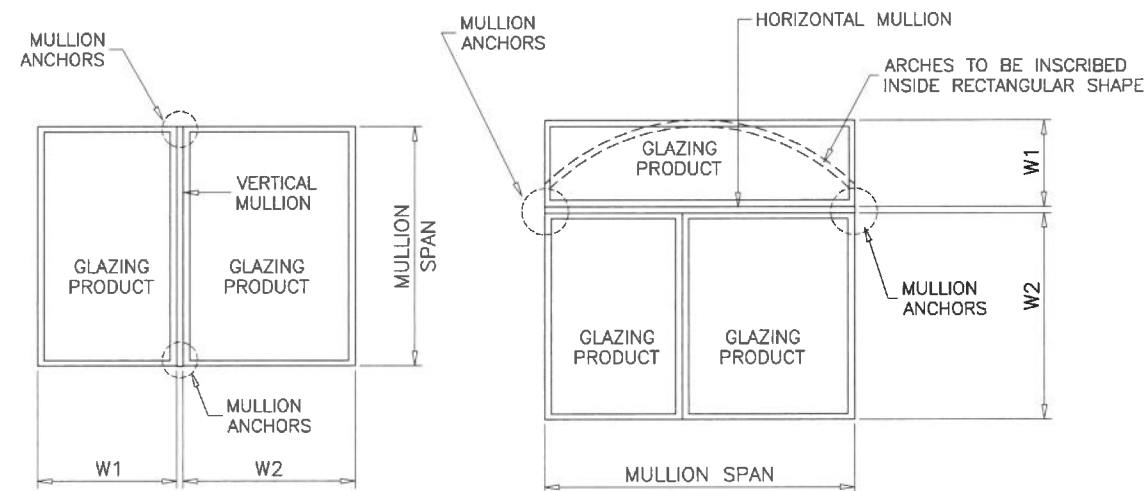
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED NORMAL WEIGHT BLOCK AT JAMBS f'm = 2000 PSI MIN.

ANCHORS MAY BE HEX OR FLAT HEAD

NOTE:
ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER LOCATIONS
AT HEAD, SILL OR JAMB ENDS.
SEE SHEET 6 FOR ANCHOR DETAILS.

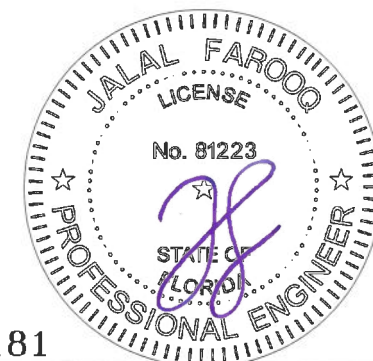
(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)



TYPICAL MULLION ARRANGEMENTS

WIDTH (W) = $\frac{W1 + W2}{2}$

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ALL LOADS ARE EXT.(+)/INT.(-).

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ENGINEERS & PRODUCT DEVELOPMENT
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TEL. (305) 264-8100
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FBPE #8538

EXTRUDED ALUMINUM CLIPPED MULLIONS

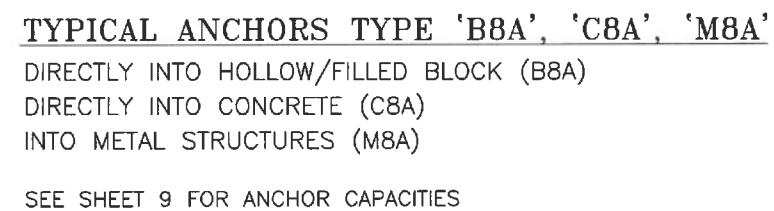
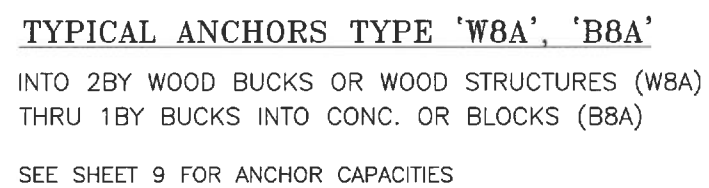
Aldora Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL. 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

revisions:
no date by description

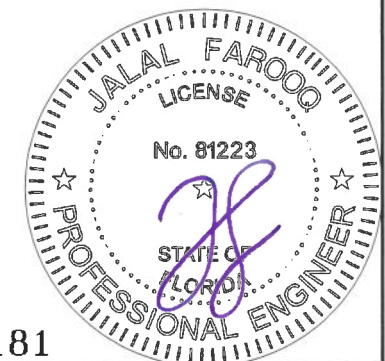
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dr. by: TARIQ
chk. by:

drawing no.
24-70F
sheet 7 of 10

FL #47181



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MULLION\24-70F-AAG

EXTRUDED ALUMINUM CLIPPED MULLIONS

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drawing no.		revisions:	
24-70F			
date: 10-01-24	scale: 3/8" = 1"	no	date
			by
dr. by: TARIQ			
chk. by:			
sheet 8 of 10			

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W8A	B8A	C8A	M8A
19-1/8"	38-3/8"	90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0
66"	50-5/8"	90.0	90.0	90.0	90.0
72"		90.0	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"	63"	90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0
66"		90.0	90.0	90.0	90.0
72"		90.0	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"	74-1/4"	90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0
66"		90.0	90.0	90.0	90.0
72"		90.0	90.0	90.0	90.0
19-1/8"	76"	90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W8A	B8A	C8A	M8A
19-1/8"	84"	90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
60"	96"	90.0	90.0	90.0	90.0
66"		90.0	90.0	90.0	90.0
72"		90.0	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"	108"	90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
37"	120"	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
57"		88.9	89.3	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"	132"	90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
52"		88.6	89.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0
30"	144"	90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		88.0	88.3	90.0	90.0

TYPICAL ANCHORS:

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

W8A: INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

B8A: THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS

B8A: DIRECTLY INTO HOLLOW/FILLED BLOCKS
1-1/4" MIN. EMBED INTO BLOCKS

C8A: DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)

M8A: INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

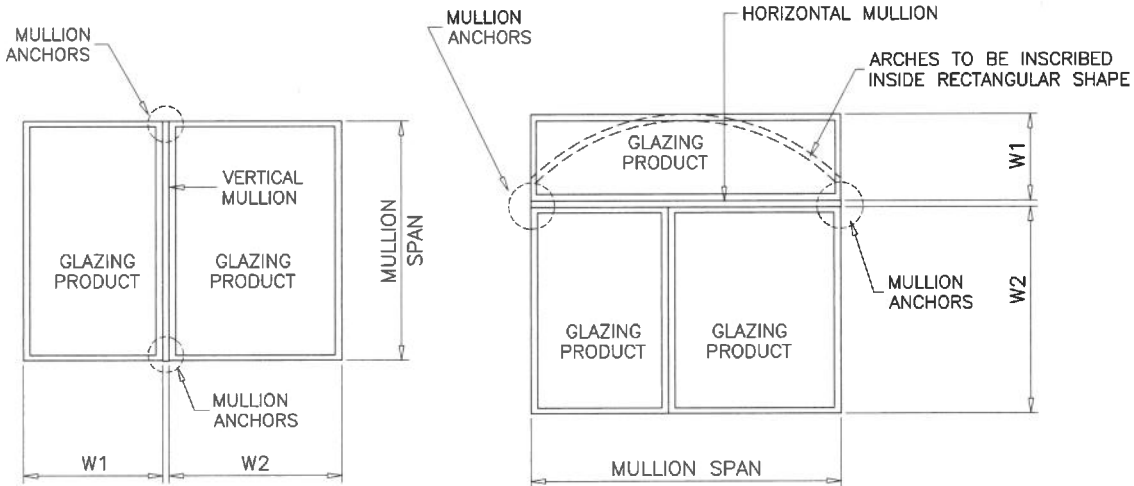
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED NORMAL WEIGHT BLOCK AT JAMBS f'm = 2000 PSI MIN.

ANCHORS MAY BE HEX OR FLAT HEAD

NOTE:
ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER LOCATIONS
AT HEAD, SILL OR JAMB ENDS.
SEE SHEET 8 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)



TYPICAL MULLION ARRANGEMENTS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

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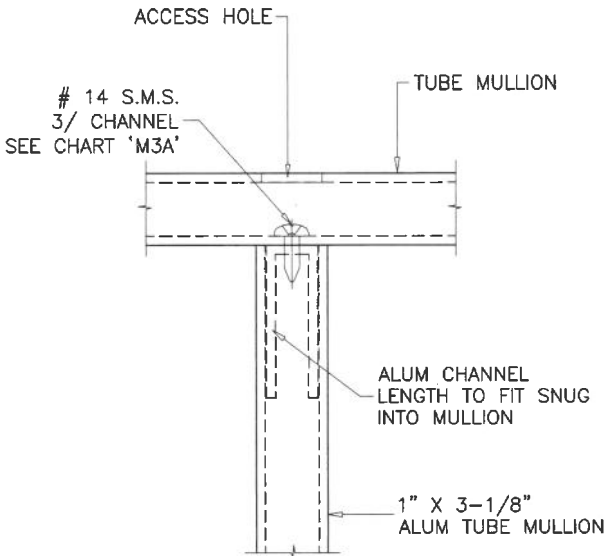
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FDPB #8538
MULLION\24-70F-AAG

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revisions:
no date by description
date: 10-01-24
scale: -
dr. by: TARIQ
chk. by:
drawing no.
24-70F
sheet 9 of 10

DESIGN LOAD CAPACITY - PSF		
WINDOW DIMS.		ANCHORS TYPE
WIDTH (W)	MULL SPAN	M3
19-1/8"	38-3/8"	90.0
26-1/2"		90.0
30"		90.0
37"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
66"	50-5/8"	90.0
72"		90.0
19-1/8"		90.0
26-1/2"		90.0
30"		90.0
37"		90.0
42"		90.0
48"		90.0
54"	63"	90.0
60"		90.0
66"		90.0
72"		85.3
19-1/8"	74-1/4"	90.0
26-1/2"		90.0
30"		90.0
37"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		86.9
66"	76"	79.0
72"		72.4
19-1/8"		90.0
26-1/2"		90.0
30"		90.0
37"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		84.9
66"		77.2
72"		70.7

DESIGN LOAD CAPACITY - PSF		
WINDOW DIMS.		ANCHORS TYPE
WIDTH (W)	MULL SPAN	M3
19-1/8"	84"	90.0
26-1/2"		90.0
30"		90.0
37"		90.0
42"		90.0
48"		90.0
54"		85.3
60"		76.8
66"	96"	69.8
72"		64.0
19-1/8"		90.0
26-1/2"		90.0
30"		90.0
37"		90.0
42"		90.0
48"		84.0
54"	108"	74.7
60"		67.2
66"		61.1
72"		56.0
19-1/8"	120"	90.0
26-1/2"		90.0
30"		90.0
37"		87.2
42"		76.8
48"		67.2
54"		59.7
57"		56.6
19-1/8"	132"	90.0
26-1/2"		90.0
30"		90.0
37"		79.3
42"		69.8
48"		61.1
52"		56.4
19-1/8"	144"	90.0
26-1/2"		90.0
30"		89.6
37"		72.6
42"		64.0
48"		56.0



ANCHOR DETAIL #1

#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)

M3: MULLION TO MULLION CONNECTION
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)

Sealed: 8/7/2026



FL #47181

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sheet 10 of 10