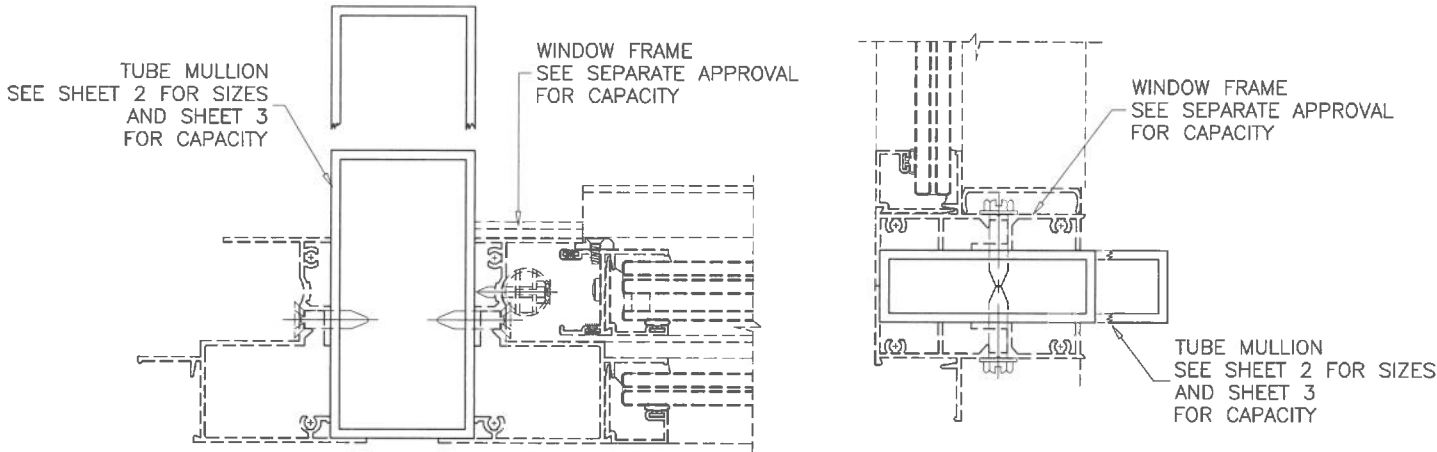


INSTRUCTIONS:

USE CHARTS AND GRAPHS 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 17, SELECT ANCHOR TYPE WITH DESIGN RATING MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.



MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS
HORIZONTAL OR VERTICAL

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING

EXTRUDED ALUMINUM CLIPPED MULLIONS
USING MULLION PROPERTIES ONLY

MULLION SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SEE SEPARATE APPROVAL'S FOR WINDOWS/DOORS IMPACT AND LOAD RATINGS. LOWER VALUES FROM MULLION APPROVAL OR WINDOW/DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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

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.

Sealed: 7/31/2026

FL #40673

- 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.



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FDPF #3538
MULLION\21-75F-MG

EXTRUDED ALUMINUM CLIPPED MULLIONS
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

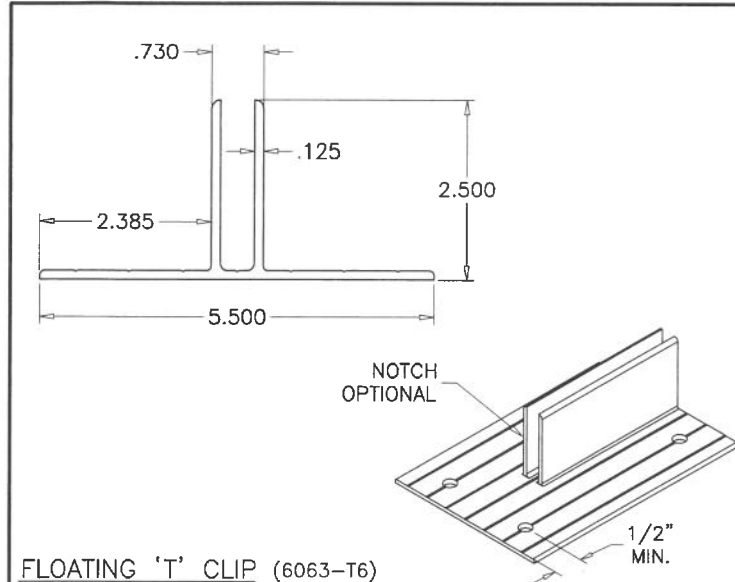
revisions:		no		date		description	
A	09.27.22	B	07.18.23	C	07.30.26	F' CLIP ADDED	UPDATED TO 2023 FBC

date: 12-21-21
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

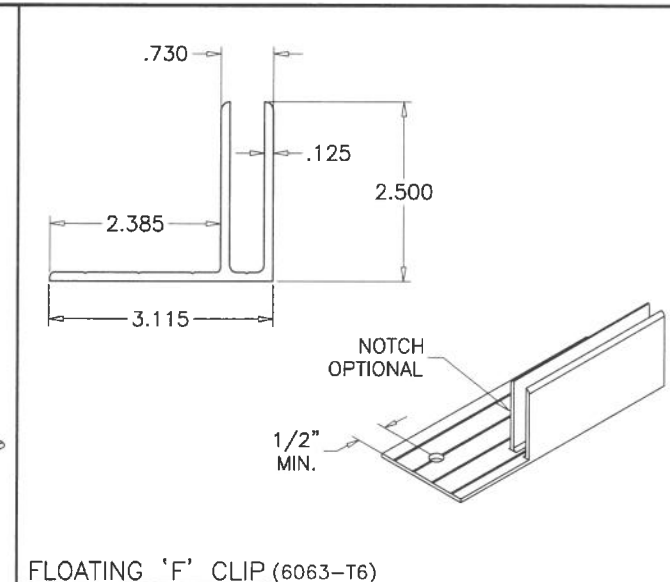
drawing no.

21-75F

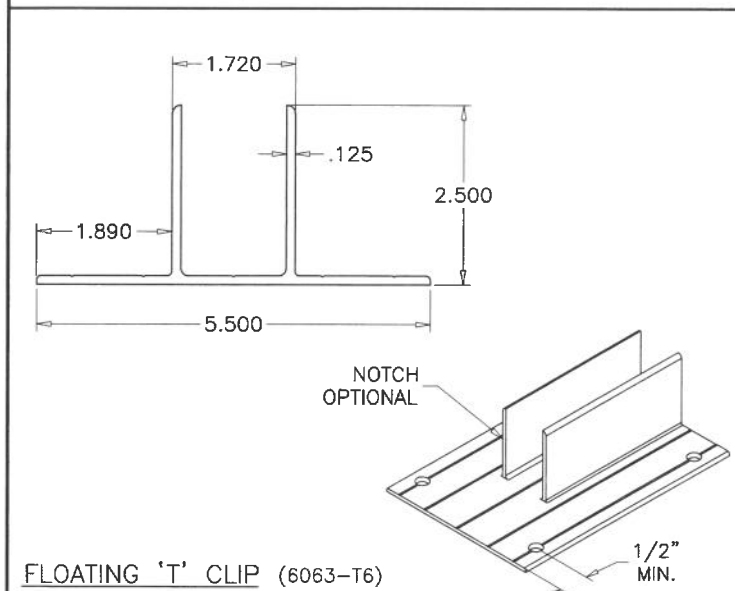
sheet 1 of 17



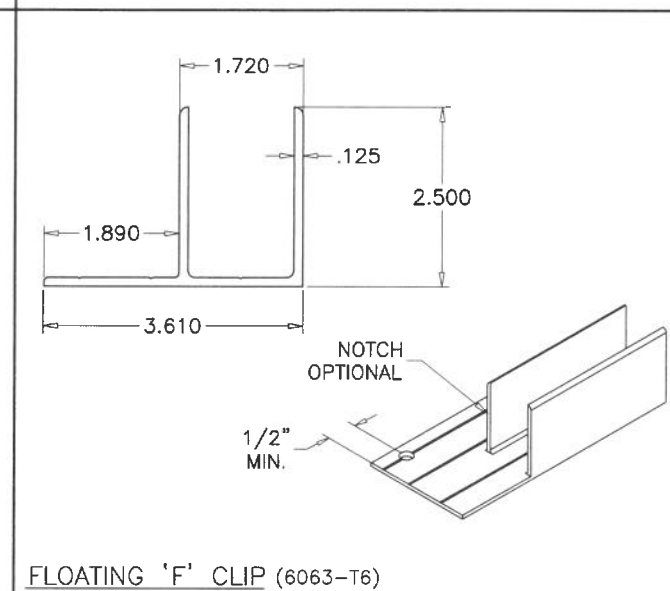
FLOATING 'T' CLIP (6063-T6)
(ALT. TO ANGLES)
CLIP LENGTHS MUST BE CUT TO FIT SNUG INTO 1BY TUBE MULLIONS.



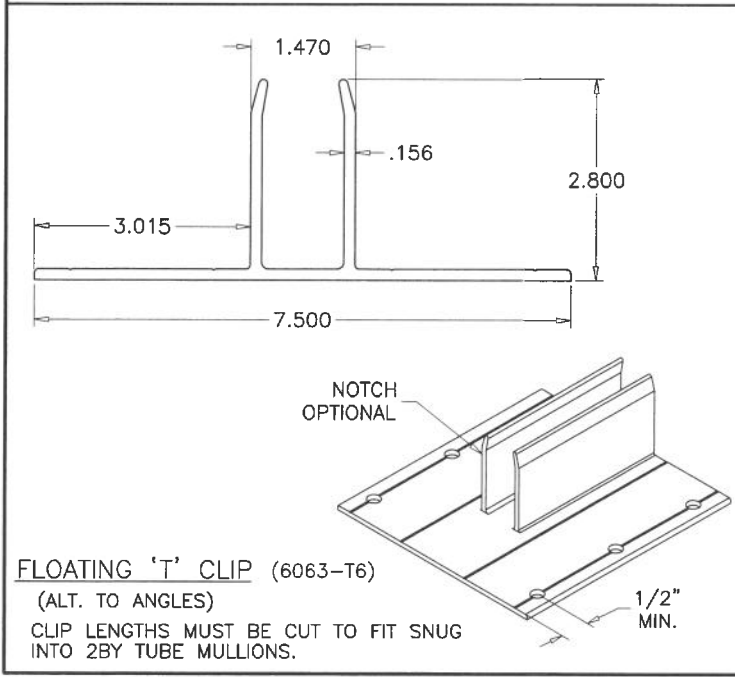
FLOATING 'F' CLIP (6063-T6)
(ALT. TO ANGLES)
CLIP LENGTHS MUST BE CUT TO FIT SNUG INTO 1BY TUBE MULLIONS.



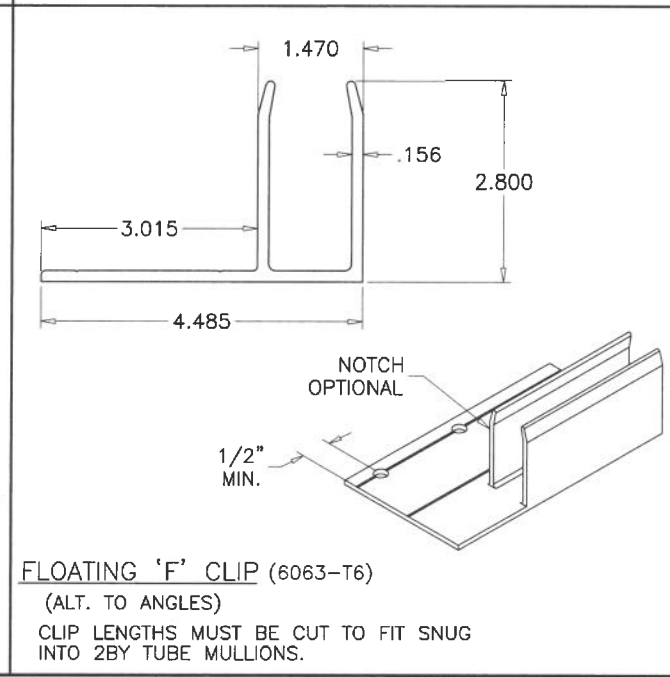
FLOATING 'T' CLIP (6063-T6)
(ALT. TO ANGLES)
CLIP LENGTHS MUST BE CUT TO FIT SNUG INTO 2BY TUBE MULLIONS.



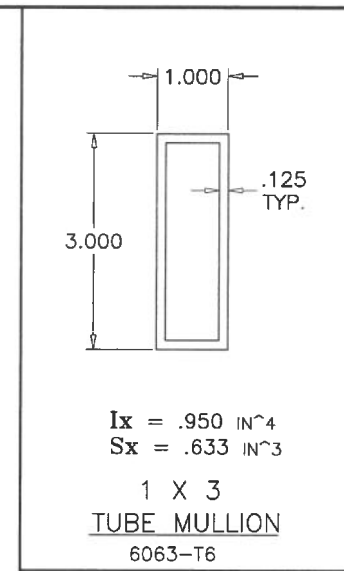
FLOATING 'F' CLIP (6063-T6)
(ALT. TO ANGLES)
CLIP LENGTHS MUST BE CUT TO FIT SNUG INTO 2BY TUBE MULLIONS.



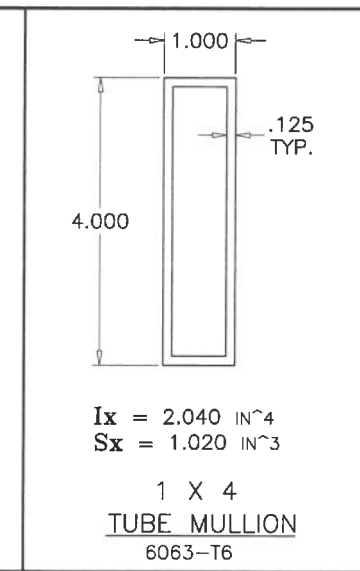
FLOATING 'T' CLIP (6063-T6)
(ALT. TO ANGLES)
CLIP LENGTHS MUST BE CUT TO FIT SNUG INTO 2BY TUBE MULLIONS.



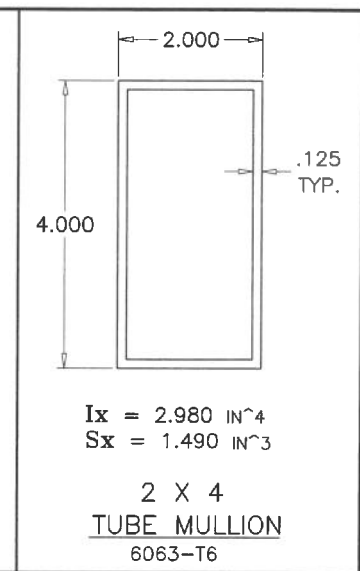
FLOATING 'F' CLIP (6063-T6)
(ALT. TO ANGLES)
CLIP LENGTHS MUST BE CUT TO FIT SNUG INTO 2BY TUBE MULLIONS.



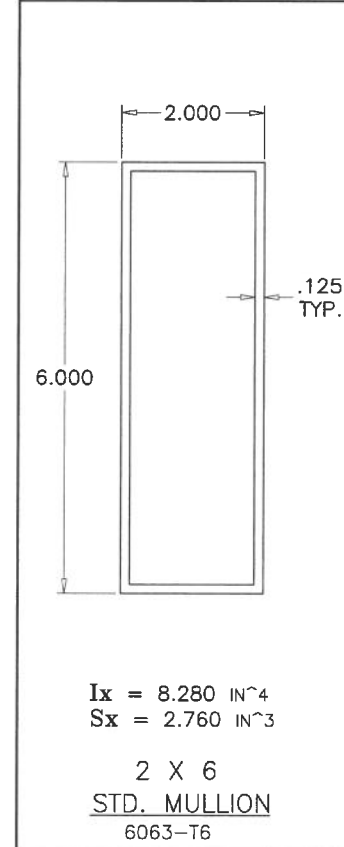
$I_x = .950 \text{ IN}^4$
 $S_x = .633 \text{ IN}^3$
1 X 3
TUBE MULLION
6063-T6



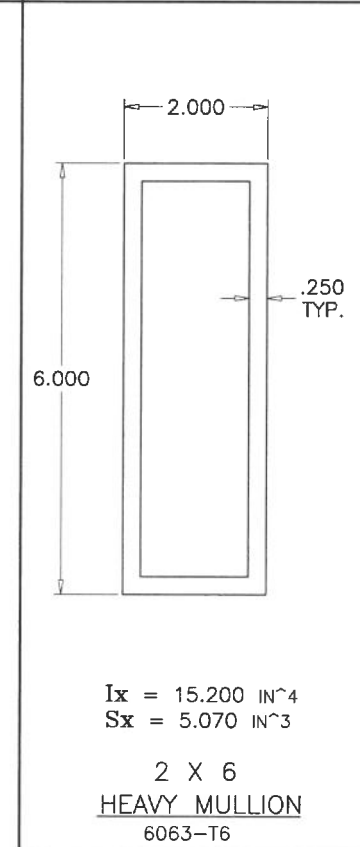
$I_x = 2.040 \text{ IN}^4$
 $S_x = 1.020 \text{ IN}^3$
1 X 4
TUBE MULLION
6063-T6



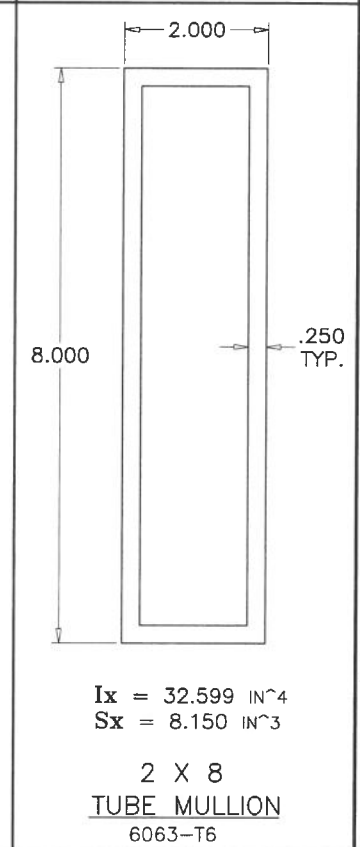
$I_x = 2.980 \text{ IN}^4$
 $S_x = 1.490 \text{ IN}^3$
2 X 4
TUBE MULLION
6063-T6



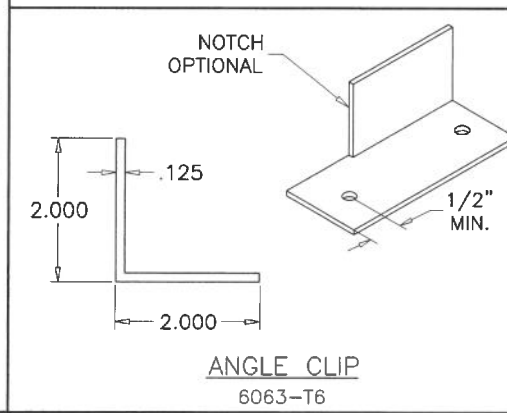
$I_x = 8.280 \text{ IN}^4$
 $S_x = 2.760 \text{ IN}^3$
2 X 6
STD. MULLION
6063-T6



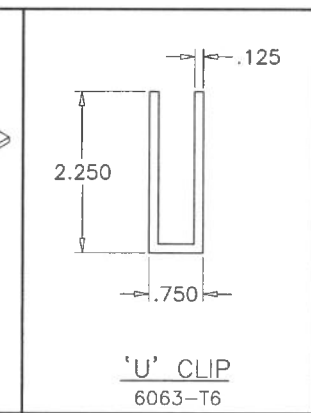
$I_x = 15.200 \text{ IN}^4$
 $S_x = 5.070 \text{ IN}^3$
2 X 6
HEAVY MULLION
6063-T6



$I_x = 32.599 \text{ IN}^4$
 $S_x = 8.150 \text{ IN}^3$
2 X 8
TUBE MULLION
6063-T6



ANGLE CLIP
6063-T6



'U' CLIP
6063-T6

Sealed: 7/31/2026



FL #40673

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

date: 12-21-21

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

revisions:

no	date	description

drawing no.

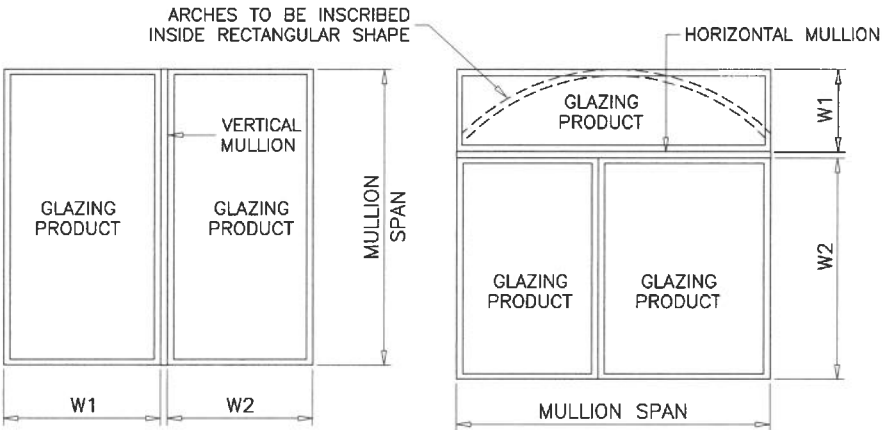
21-75F

sheet 2 of 17

DESIGN LOAD CAPACITY – PSF (TUBE MULLIONS)							
WINDOW DIMS.		1 X 3	1 X 4	2 X 4	2 X 6	2 X 6	2 X 8
WIDTH (W)	MULL SPAN	TUBE	TUBE	TUBE	STD.	HEAVY	TUBE
19–1/8"	38–3/8"	150.0	150.0	150.0	150.0	150.0	150.0
26–1/2"		150.0	150.0	150.0	150.0	150.0	150.0
30"		150.0	150.0	150.0	150.0	150.0	150.0
37"		150.0	150.0	150.0	150.0	150.0	150.0
42"		150.0	150.0	150.0	150.0	150.0	150.0
48"		140.6	150.0	150.0	150.0	150.0	150.0
54"		124.9	150.0	150.0	150.0	150.0	150.0
60"		112.5	150.0	150.0	150.0	150.0	150.0
66"		102.2	150.0	150.0	150.0	150.0	150.0
72"		93.7	149.6	150.0	150.0	150.0	150.0
19–1/8"	50–5/8"	150.0	150.0	150.0	150.0	150.0	150.0
26–1/2"		143.9	150.0	150.0	150.0	150.0	150.0
30"		127.1	150.0	150.0	150.0	150.0	150.0
37"		103.0	150.0	150.0	150.0	150.0	150.0
42"		90.8	144.7	150.0	150.0	150.0	150.0
48"		79.4	126.6	150.0	150.0	150.0	150.0
54"		70.6	112.5	150.0	150.0	150.0	150.0
60"		63.5	101.3	150.0	150.0	150.0	150.0
66"		57.8	92.1	142.6	150.0	150.0	150.0
72"		53.0	84.4	130.7	150.0	150.0	150.0
19–1/8"	63"	123.3	150.0	150.0	150.0	150.0	150.0
26–1/2"		89.0	145.6	150.0	150.0	150.0	150.0
30"		78.6	128.6	150.0	150.0	150.0	150.0
37"		63.7	104.3	150.0	150.0	150.0	150.0
42"		56.1	91.9	143.3	150.0	150.0	150.0
48"		49.1	80.4	125.4	150.0	150.0	150.0
54"		43.7	71.5	111.5	150.0	150.0	150.0
60"		39.3	64.3	100.3	150.0	150.0	150.0
66"		35.7	58.5	91.2	150.0	150.0	150.0
72"		32.7	53.6	83.6	150.0	150.0	150.0
19–1/8"	74–1/4"	75.3	143.2	150.0	150.0	150.0	150.0
26–1/2"		54.4	103.4	150.0	150.0	150.0	150.0
30"		48.0	91.3	143.4	150.0	150.0	150.0
37"		38.9	74.0	116.3	150.0	150.0	150.0
42"		34.3	65.2	102.4	150.0	150.0	150.0
48"		30.0	57.1	89.6	150.0	150.0	150.0
54"		26.7	50.7	79.7	146.3	150.0	150.0
60"		24.0	45.7	71.7	131.7	150.0	150.0
66"		21.8	41.5	65.2	119.7	150.0	150.0
72"		20.0	38.0	59.7	109.7	150.0	150.0
19–1/8"	76"	70.2	136.4	150.0	150.0	150.0	150.0
26–1/2"		50.7	98.5	150.0	150.0	150.0	150.0
30"		44.8	87.0	136.7	150.0	150.0	150.0
37"		36.3	70.5	110.8	150.0	150.0	150.0
42"		32.0	62.1	97.6	150.0	150.0	150.0
48"		28.0	54.4	85.4	150.0	150.0	150.0
54"		24.9	48.3	75.9	139.5	150.0	150.0
60"		22.4	43.5	68.4	125.5	150.0	150.0
66"		20.3	39.5	62.1	114.1	150.0	150.0
72"		–	36.2	57.0	104.6	150.0	150.0

DESIGN LOAD CAPACITY – PSF (TUBE MULLIONS)							
WINDOW DIMS.		1 X 3	1 X 4	2 X 4	2 X 6	2 X 6	2 X 8
WIDTH (W)	MULL SPAN	TUBE	TUBE	TUBE	STD.	HEAVY	TUBE
19–1/8"	84"	52.0	110.6	150.0	150.0	150.0	150.0
26–1/2"		37.5	79.8	117.7	150.0	150.0	150.0
30"		33.2	70.5	104.0	150.0	150.0	150.0
37"		26.9	57.2	84.3	150.0	150.0	150.0
42"		23.7	50.4	74.3	146.0	150.0	150.0
48"		20.7	44.1	65.0	127.7	150.0	150.0
54"		–	39.2	57.8	113.5	150.0	150.0
60"		–	35.3	52.0	102.2	150.0	150.0
66"		–	32.1	47.3	92.9	150.0	150.0
72"		–	29.4	43.3	85.2	150.0	150.0
19–1/8"	96"	34.8	74.8	109.3	150.0	150.0	150.0
26–1/2"		25.1	54.0	78.9	150.0	150.0	150.0
30"		22.2	47.7	69.7	150.0	150.0	150.0
37"		–	38.7	56.5	125.9	150.0	150.0
42"		–	34.1	49.8	110.9	150.0	150.0
48"		–	29.8	43.5	97.0	150.0	150.0
54"		–	26.5	38.7	86.2	150.0	150.0
60"		–	23.8	34.8	77.6	142.0	150.0
66"		–	21.7	31.7	70.6	129.1	150.0
72"		–	–	29.0	64.7	118.3	150.0
19–1/8"	108"	24.5	52.5	76.8	150.0	150.0	150.0
26–1/2"		–	37.9	55.4	137.8	150.0	150.0
30"		–	33.5	48.9	121.8	150.0	150.0
37"		–	27.2	39.7	98.7	150.0	150.0
42"		–	23.9	35.0	87.0	150.0	150.0
48"		–	20.9	30.6	76.1	139.2	150.0
54"		–	–	27.2	67.6	123.7	150.0
60"		–	–	24.5	60.9	111.3	150.0
66"		–	–	22.2	55.3	101.2	150.0
72"		–	–	20.4	50.7	92.8	147.7
19–1/8"	120"	–	38.3	56.0	150.0	150.0	150.0
26–1/2"		–	27.6	40.4	110.9	150.0	150.0
30"		–	24.4	35.7	97.9	150.0	150.0
37"		–	–	28.9	79.4	145.2	150.0
42"		–	–	25.5	69.9	127.9	150.0
48"		–	–	22.3	61.2	111.9	150.0
54"		–	–	–	54.4	99.5	150.0
60"		–	–	–	49.0	89.5	142.4
66"		–	–	–	44.5	81.4	129.4
72"		–	–	–	40.8	74.6	118.7
19–1/8"	132"	–	28.8	42.0	116.8	150.0	150.0
26–1/2"		–	20.8	30.3	84.3	150.0	150.0
30"		–	–	26.8	74.5	136.7	150.0
37"		–	–	21.7	60.4	110.8	150.0
42"		–	–	–	53.2	97.6	150.0
48"		–	–	–	46.5	85.4	146.0
54"		–	–	–	41.4	75.9	129.8
60"		–	–	–	37.2	68.4	116.8
66"		–	–	–	33.8	62.1	106.2
72"		–	–	–	31.0	57.0	97.3

DESIGN LOAD CAPACITY – PSF (TUBE MULLIONS)							
WINDOW DIMS.		1 X 3	1 X 4	2 X 4	2 X 6	2 X 6	2 X 8
WIDTH (W)	MULL SPAN	TUBE	TUBE	TUBE	STD.	HEAVY	TUBE
19–1/8"	144"	–	22.2	32.4	90.0	150.0	150.0
26–1/2"		–	–	23.4	64.9	119.2	150.0
30"		–	–	20.6	57.4	105.3	150.0
37"		–	–	–	46.5	85.4	150.0
42"		–	–	–	41.0	75.2	139.2
48"		–	–	–	35.8	65.8	121.8
54"		–	–	–	31.9	58.5	108.2
60"		–	–	–	28.7	52.6	97.4
66"		–	–	–	26.1	47.9	88.6
72"		–	–	–	23.9	43.9	81.2
19–1/8"	156"	–	–	–	70.8	129.9	150.0
26–1/2"		–	–	–	51.1	93.8	150.0
30"		–	–	–	45.1	82.8	150.0
37"		–	–	–	36.6	67.1	133.6
42"		–	–	–	32.2	59.2	117.7
48"		–	–	–	28.2	51.8	103.0
54"		–	–	–	25.1	46.0	91.6
60"		–	–	–	22.6	41.4	82.4
66"		–	–	–	20.5	37.6	74.9
72"		–	–	–	–	34.5	68.7
19–1/8"	168"	–	–	–	57.7	105.9	150.0
26–1/2"		–	–	–	41.6	76.4	150.0
30"		–	–	–	36.8	67.5	141.1
37"		–	–	–	29.8	54.7	114.4
42"		–	–	–	26.3	48.2	100.8
48"		–	–	–	23.0	42.2	88.2
54"		–	–	–	20.4	37.5	78.4
60"		–	–	–	–	33.7	70.6
66"		–	–	–	–	30.7	64.2
72"		–	–	–	–	28.1	58.8



TYPICAL MULLION ARRANGEMENTS

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

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

FL #40673



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

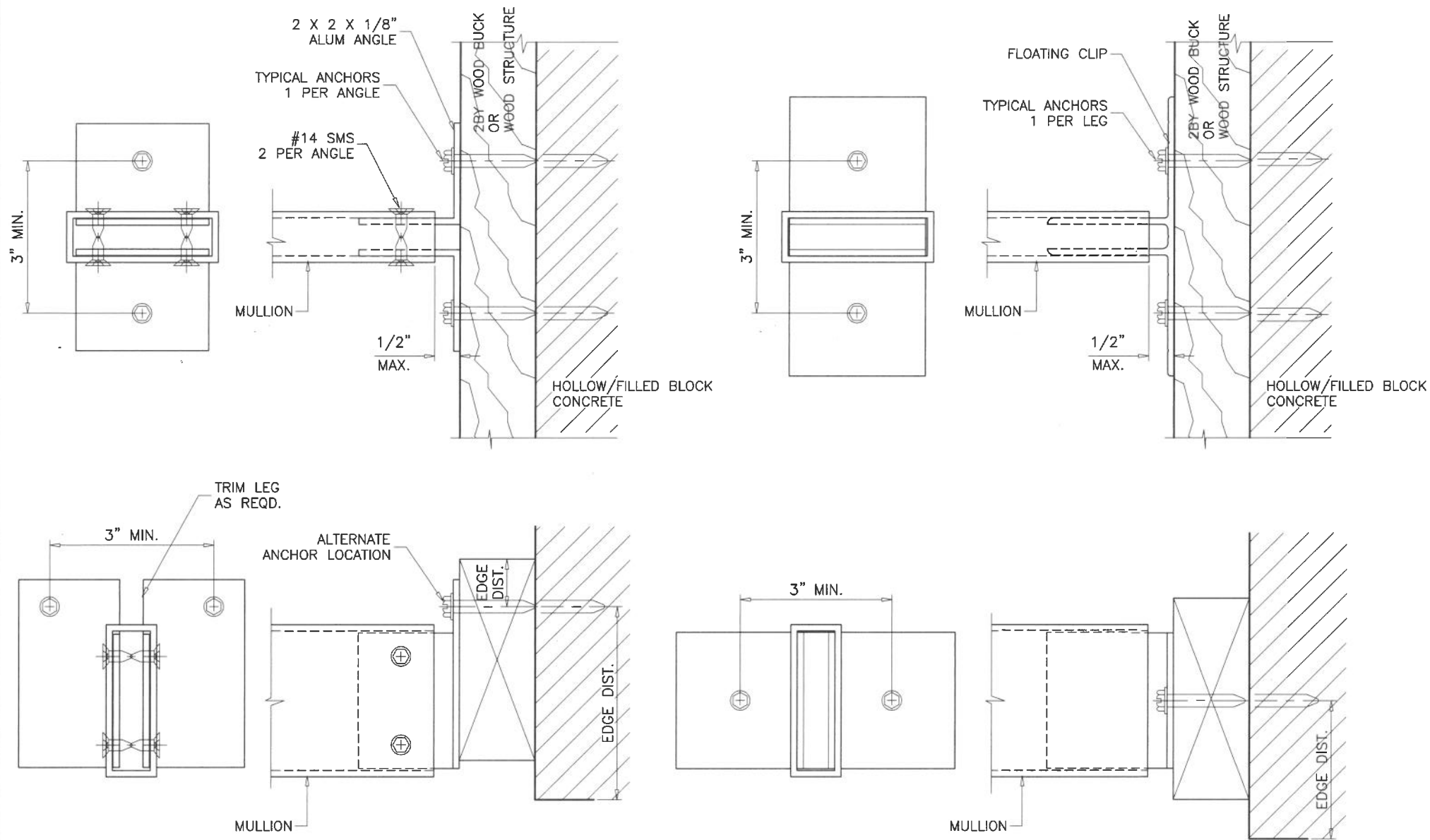
MULLION \ 21 – 75F – MG

FBPE #3538

EXTRUDED ALUMINUM CLIPPED MULLIONS

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

revisions:		no	date	by	description
date:	12-21-21				
scale:	–				
dr. by:	TARIQ				
chk. by:					
drawing no.		21–75F			
sheet		3 of 17			

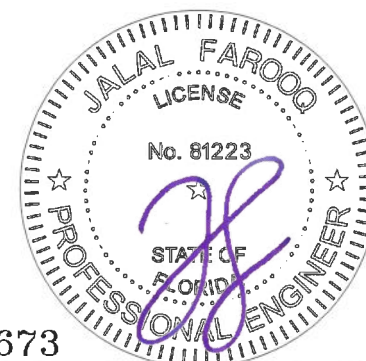


TYPICAL ANCHORS TYPE 'W2'

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
THRU 1BY BUCKS INTO CONC. OR MASONRY

SEE SHEET 6 FOR 'T' CLIP ANCHOR CAPACITIES

Sealed: 7/31/2026

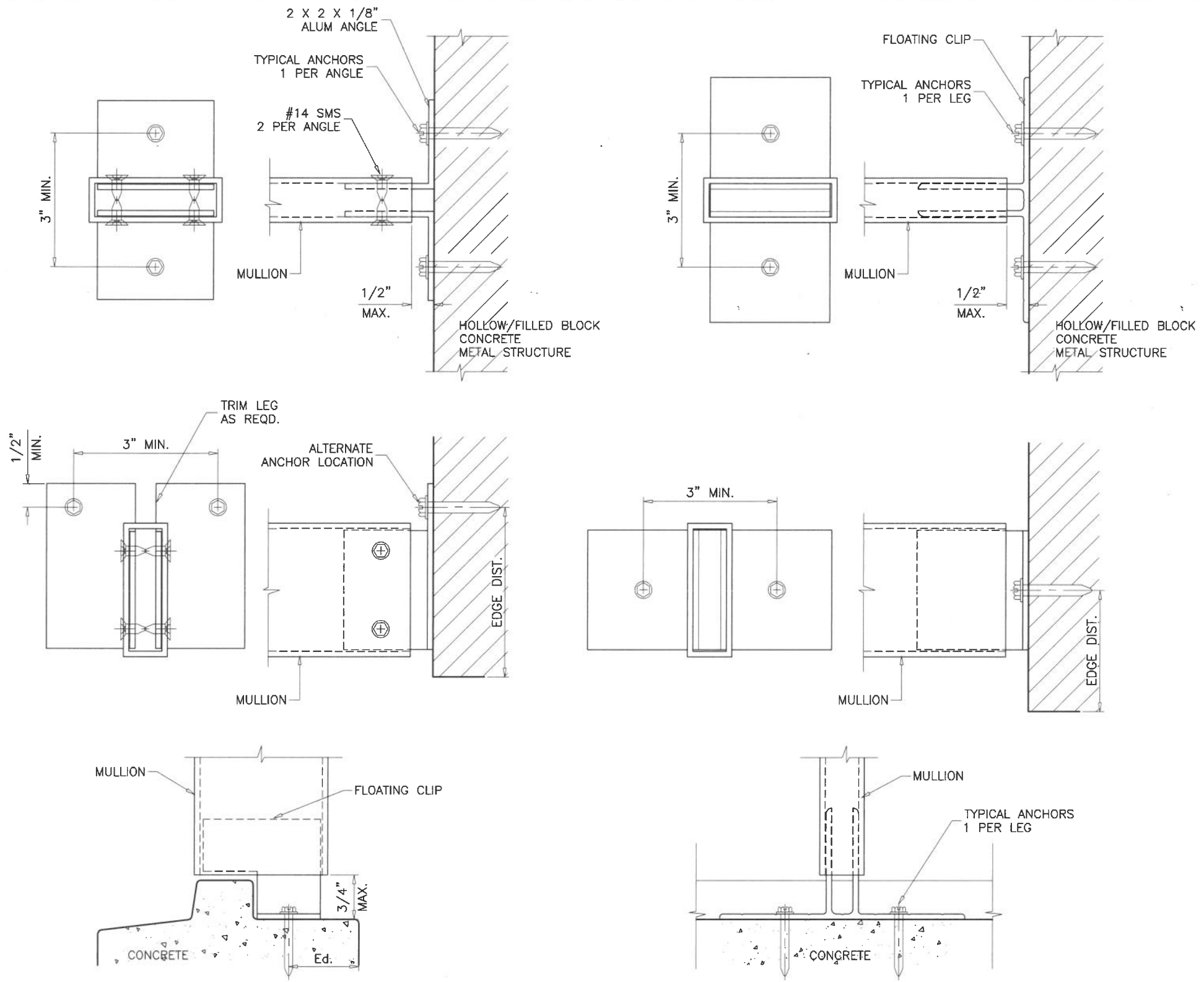


FL #40673

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100
WWW.AFCENG.COM
FBPE #3538
MULLION\21-75F-MG

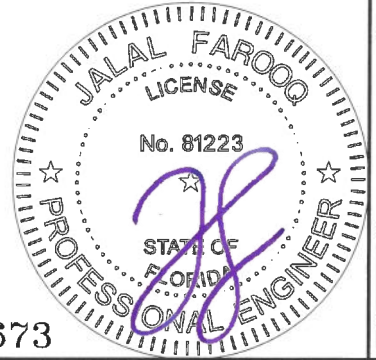
EXTRUDED ALUMINUM CLIPPED MULLIONS
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
WWW.MRGLOSSWINDOWS.COM

revisions:		no		date		by		description	
date:	12-21-21	scale:	3/8" = 1"	dr. by:	TARIQ	chk. by:		drawing no.	21-75F
								sheet 4 of 17	



TYPICAL ANCHORS TYPE 'B2', 'C2', 'M2'
 DIRECTLY INTO HOLLOW/FILLED BLOCK
 DIRECTLY INTO CONCRETE
 INTO METAL STRUCTURES
 SEE SHEET 6 FOR 'T' CLIP ANCHOR CAPACITIES

Sealed: 7/31/2026



FL #40673

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL (305) 264-8100
 FBPE #3538

MULLION\21-75F-MG

EXTRUDED ALUMINUM CLIPPED MULLIONS

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
 8051 N.W. 79th Place
 Medley, FL. 33166
 Tel. (305) 764-3963
 www.mrglasswindows.com

revisions:

no	date	by description

date: 12-21-21

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

21-75F

sheet 5 of 17

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2T	B2T	C2T	M2T
19-1/8"	38-3/8"	150.0	150.0	150.0	150.0
26-1/2"		149.5	150.0	150.0	150.0
30"		132.1	145.1	150.0	150.0
37"		107.1	117.6	150.0	150.0
42"		94.3	103.6	150.0	139.7
48"		82.6	90.7	133.5	122.3
54"		73.4	80.6	118.7	108.7
60"		66.0	72.5	106.8	97.8
66"		60.0	66.0	97.1	88.9
72"		55.0	60.5	89.0	81.5
19-1/8"	50-5/8"	150.0	150.0	150.0	150.0
26-1/2"		113.3	124.5	150.0	150.0
30"		100.1	110.0	150.0	148.3
37"		81.2	89.2	131.3	120.2
42"		71.5	78.6	115.7	105.9
48"		62.6	68.7	101.2	92.7
54"		55.6	61.1	90.0	82.4
60"		50.1	55.0	81.0	74.1
66"		45.5	50.0	73.6	67.4
72"		41.7	45.8	67.5	61.8
19-1/8"	63"	126.2	138.6	150.0	150.0
26-1/2"		91.1	100.1	147.3	134.9
30"		80.5	88.4	130.1	119.2
37"		65.2	71.7	105.5	96.6
42"		57.5	63.1	93.0	85.1
48"		50.3	55.2	81.3	74.5
54"		44.7	49.1	72.3	66.2
60"		40.2	44.2	65.1	59.6
66"		36.6	40.2	59.2	54.2
72"		33.5	36.8	54.2	49.7
19-1/8"	74-1/4"	107.1	117.6	150.0	150.0
26-1/2"		77.3	84.9	125.0	114.5
30"		68.3	75.0	110.4	101.1
37"		55.4	60.8	89.5	82.0
42"		48.8	53.6	78.9	72.2
48"		42.7	46.9	69.0	63.2
54"		37.9	41.7	61.3	56.2
60"		34.1	37.5	55.2	50.6
66"		31.0	34.1	50.2	46.0
72"		28.4	31.2	46.0	42.1
19-1/8"	76"	104.6	114.9	150.0	150.0
26-1/2"		75.5	82.9	122.1	111.8
30"		66.7	73.3	107.9	98.8
37"		54.1	59.4	87.5	80.1
42"		47.6	52.3	77.1	70.6
48"		41.7	45.8	67.4	61.7
54"		37.1	40.7	59.9	54.9
60"		33.3	36.6	53.9	49.4
66"		30.3	33.3	49.0	44.9
72"		27.8	30.5	44.9	41.2

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2T	B2T	C2T	M2T
19-1/8"	84"	94.7	104.0	150.0	140.2
26-1/2"		68.3	75.0	110.5	101.2
30"		60.3	66.3	97.6	89.4
37"		48.9	53.7	79.1	72.5
42"		43.1	47.3	69.7	63.8
48"		37.7	41.4	61.0	55.9
54"		33.5	36.8	54.2	49.7
60"		30.2	33.1	48.8	44.7
66"		27.4	30.1	44.4	40.6
72"		25.1	27.6	40.7	37.2
19-1/8"	96"	82.8	91.0	134.0	122.7
26-1/2"		59.8	65.7	96.7	88.5
30"		52.8	58.0	85.4	78.2
37"		42.8	47.0	69.2	63.4
42"		37.7	41.4	61.0	55.9
48"		33.0	36.3	53.4	48.9
54"		29.3	32.2	47.4	43.4
60"		26.4	29.0	42.7	39.1
66"		24.0	26.4	38.8	35.5
72"		22.0	24.2	35.6	32.6
19-1/8"	108"	73.6	80.9	119.1	109.0
26-1/2"		53.1	58.4	85.9	78.7
30"		46.9	51.6	75.9	69.5
37"		38.1	41.8	61.5	56.4
42"		33.5	36.8	54.2	49.7
48"		29.3	32.2	47.4	43.4
54"		26.1	28.6	42.2	38.6
60"		23.5	25.8	38.0	34.8
66"		21.3	23.4	34.5	31.6
72"		-	21.5	31.6	29.0
19-1/8"	120"	66.3	72.8	107.2	98.1
26-1/2"		47.8	52.5	77.3	70.8
30"		42.2	46.4	68.3	62.6
37"		34.2	37.6	55.4	50.7
42"		30.2	33.1	48.8	44.7
48"		26.4	29.0	42.7	39.1
54"		23.5	25.8	38.0	34.8
60"		21.1	23.2	34.2	31.3
66"		-	21.1	31.1	28.4
72"		-	-	28.5	26.1
19-1/8"	132"	60.2	66.2	97.4	89.2
26-1/2"		43.5	47.8	70.3	64.4
30"		38.4	42.2	62.1	56.9
37"		31.1	34.2	50.4	46.1
42"		27.4	30.1	44.4	40.6
48"		24.0	26.4	38.8	35.5
54"		21.3	23.4	34.5	31.6
60"		-	21.1	31.1	28.4
66"		-	-	28.2	25.9
72"		-	-	25.9	23.7

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2T	B2T	C2T	M2T
19-1/8"	144"	55.2	60.7	89.3	81.8
26-1/2"		39.8	43.8	64.5	59.0
30"		35.2	38.7	56.9	52.1
37"		28.5	31.4	46.2	42.3
42"		25.1	27.6	40.7	37.2
48"		22.0	24.2	35.6	32.6
54"		-	21.5	31.6	29.0
60"		-	-	28.5	26.1
66"		-	-	25.9	23.7
72"		-	-	23.7	21.7
19-1/8"	156"	51.0	56.0	82.4	75.5
26-1/2"		36.8	40.4	59.5	54.5
30"		32.5	35.7	52.6	48.1
37"		26.3	28.9	42.6	39.0
42"		23.2	25.5	37.5	34.4
48"		20.3	22.3	32.8	30.1
54"		-	-	29.2	26.7
60"		-	-	26.3	24.1
66"		-	-	23.9	21.9
72"		-	-	21.9	20.1
19-1/8"	168"	47.3	52.0	76.5	70.1
26-1/2"		34.2	37.5	55.2	50.6
30"		30.2	33.1	48.8	44.7
37"		24.5	26.9	39.6	36.2
42"		21.6	23.7	34.9	31.9
48"		-	20.7	30.5	27.9
54"		-	-	27.1	24.8
60"		-	-	24.2	22.3
66"		-	-	22.2	20.3
72"		-	-	20.3	-

TYPICAL ANCHORS AT 'T' CLIP:

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

W2T: INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

W2T: THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS

B2T: DIRECTLY INTO HOLLOW/FILLED BLOCKS
1-1/4" MIN. EMBED INTO BLOCKS

C2T: DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

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

M2T: 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.

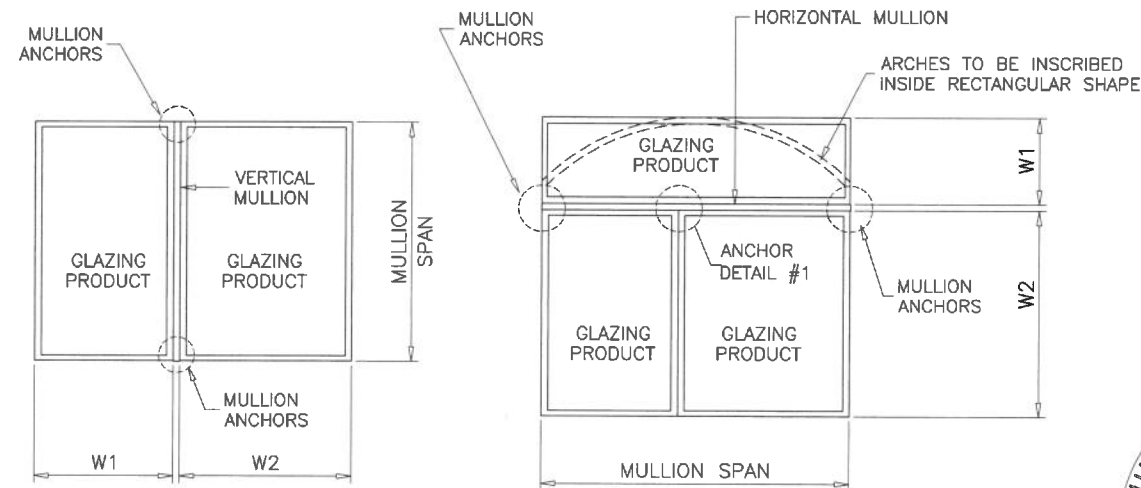
C-90 HOLLOW/FILLED NORMAL WEIGHT BLOCK AT JAMBS f'm = 2000 PSI MIN.

ANCHORS MAY BE HEX OR FLAT HEAD

NOTE:

ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER LOCATIONS
AT HEAD, SILL OR JAMB ENDS.
SEE SHEETS 4 & 5 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

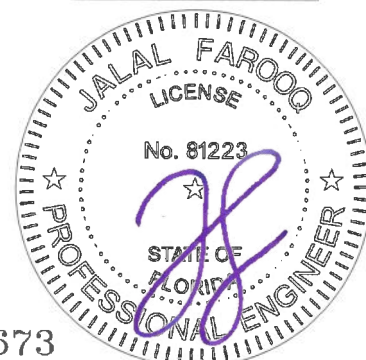


TYPICAL MULLION ARRANGEMENTS

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

Sealed: 7/31/2026

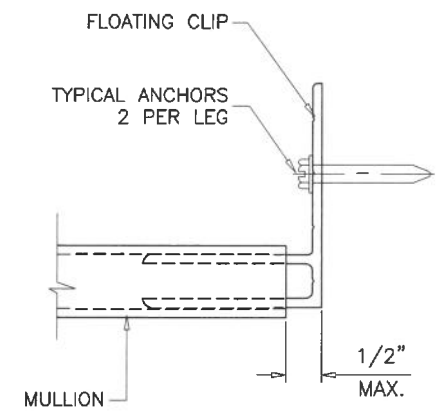
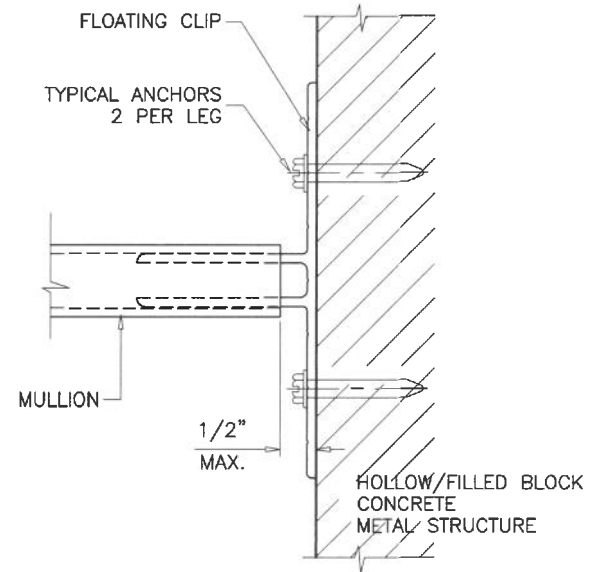
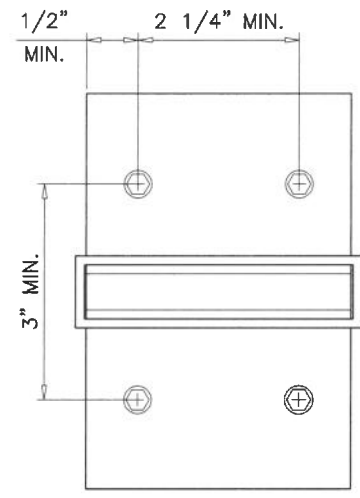
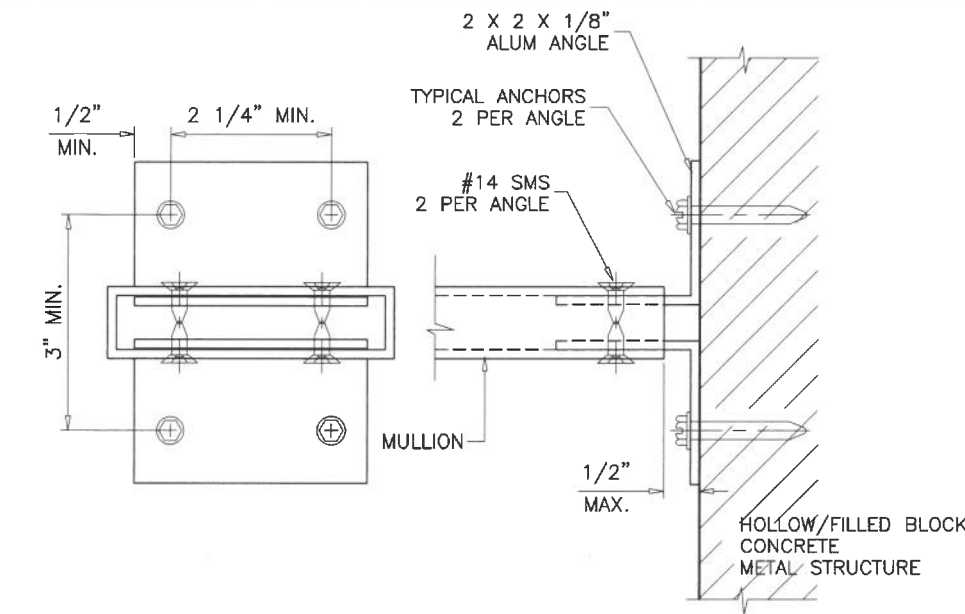
FL #40673



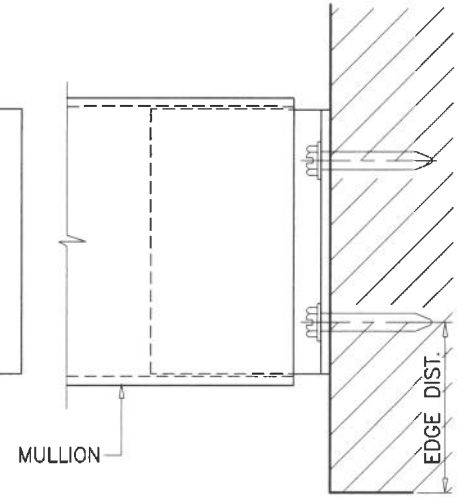
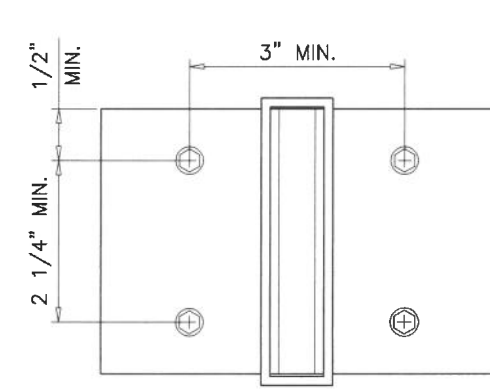
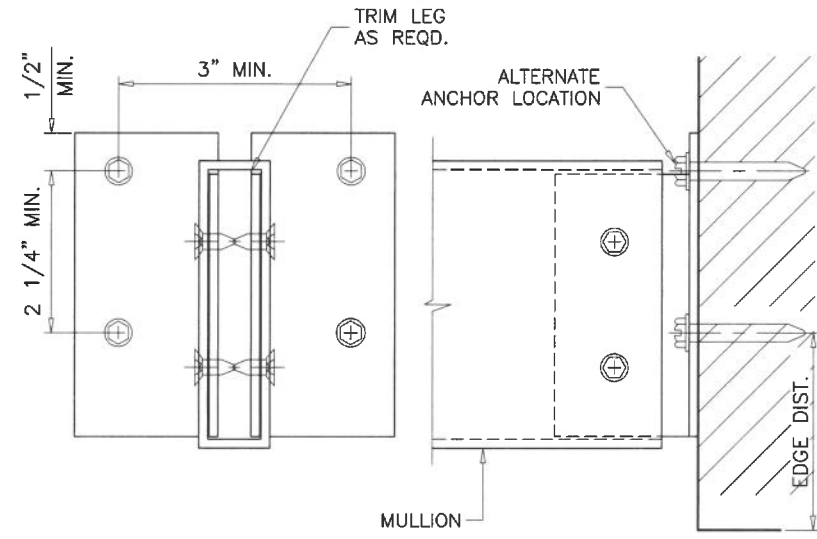
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

EXTRUDED ALUMINUM CLIPPED MULLIONS
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

revisions:		date:		by description:	
no	date	no	date	no	date
1	12-21-21	1	12-21-21	1	12-21-21
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
7		7		7	
8		8		8	
9		9		9	
10		10		10	
11		11		11	
12		12		12	
13		13		13	
14		14		14	
15		15		15	
16		16		16	
17		17		17	
18		18		18	
19		19		19	
20		20		20	
21		21		21	
22		22		22	
23		23		23	
24		24		24	
25		25		25	
26		26		26	
27		27		27	
28		28		28	
29		29		29	
30		30		30	
31		31		31	
32		32		32	
33		33		33	
34		34		34	
35		35		35	
36		36		36	
37		37		37	
38		38		38	
39		39		39	
40		40		40	
41		41		41	
42		42		42	
43		43		43	
44		44		44	
45		45		45	
46		46		46	
47		47		47	
48		48		48	
49		49		49	
50		50		50	
51		51		51	
52		52		52	
53		53		53	
54		54		54	
55		55		55	
56		56		56	
57		57		57	
58		58		58	
59		59		59	



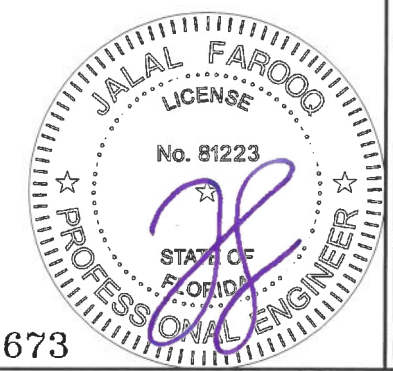
'F' CLIP DETAIL
APPLICABLE TO ALL SUBSTRATES
SHOWN FOR 'T' CLIP



TYPICAL ANCHORS TYPE 'B4', 'C4', 'M4'
DIRECTLY INTO HOLLOW/FILLED BLOCK
DIRECTLY INTO CONCRETE
INTO METAL STRUCTURES

SEE SHEET 9 FOR 'T' CLIP ANCHOR CAPACITIES
SEE SHEET 9.1 FOR 'F' CLIP ANCHOR CAPACITIES

Sealed: 7/31/2026



FL #40673

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
FAX (305) 264-8100

af c

WWW.AFCENG.COM

MULLION\21-75F-MG

EXTRUDED ALUMINUM CLIPPED MULLIONS

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

revisions:

no	date	by	description

date: 12-21-21
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
21-75F

sheet 8 of 17

FL #40673

DESIGN LOAD CAPACITY – PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W4T	B4T	C4T	M4T
19–1/8"	38–3/8"	150.0	150.0	150.0	150.0
26–1/2"		150.0	150.0	150.0	150.0
30"		150.0	150.0	150.0	150.0
37"		150.0	150.0	150.0	150.0
42"		150.0	150.0	150.0	150.0
48"		150.0	150.0	150.0	150.0
54"		146.8	147.3	150.0	150.0
60"		132.1	132.6	150.0	150.0
66"		120.1	120.5	150.0	150.0
72"		110.1	110.5	150.0	150.0
19–1/8"	50–5/8"	150.0	150.0	150.0	150.0
26–1/2"		150.0	150.0	150.0	150.0
30"		150.0	150.0	150.0	150.0
37"		150.0	150.0	150.0	150.0
42"		143.0	143.6	150.0	150.0
48"		125.2	125.6	150.0	150.0
54"		111.2	111.7	150.0	150.0
60"		100.1	100.5	150.0	148.3
66"		91.0	91.4	145.8	134.8
72"		83.4	83.8	133.7	123.6
19–1/8"	63"	150.0	150.0	150.0	150.0
26–1/2"		150.0	150.0	150.0	150.0
30"		150.0	150.0	150.0	150.0
37"		130.5	131.0	150.0	150.0
42"		114.9	115.4	150.0	150.0
48"		100.6	101.0	150.0	149.0
54"		89.4	89.7	143.2	132.4
60"		80.5	80.8	128.9	119.2
66"		73.1	73.4	117.2	108.3
72"		67.0	67.3	107.4	99.3
19–1/8"	74–1/4"	150.0	150.0	150.0	150.0
26–1/2"		150.0	150.0	150.0	150.0
30"		136.5	137.1	150.0	150.0
37"		110.7	111.1	150.0	150.0
42"		97.5	97.9	150.0	144.4
48"		85.3	85.7	136.7	126.4
54"		75.9	76.1	121.5	112.3
60"		68.3	68.5	109.4	101.1
66"		62.1	62.3	99.4	91.9
72"		56.9	57.1	91.2	84.3
19–1/8"	76"	150.0	150.0	150.0	150.0
26–1/2"		150.0	150.0	150.0	150.0
30"		133.4	133.9	150.0	150.0
37"		108.2	108.6	150.0	150.0
42"		95.3	95.6	150.0	141.1
48"		83.4	83.7	133.6	123.5
54"		74.1	74.4	118.7	109.8
60"		66.7	66.9	106.9	98.8
66"		60.6	60.9	97.1	89.8
72"		55.6	55.8	89.1	82.3

DESIGN LOAD CAPACITY – PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W4T	B4T	C4T	M4T
19–1/8"	84"	150.0	150.0	150.0	150.0
26–1/2"		136.6	137.1	150.0	150.0
30"		120.7	121.1	150.0	150.0
37"		97.9	98.2	150.0	144.9
42"		86.2	86.5	138.1	127.7
48"		75.4	75.7	120.9	111.7
54"		67.0	67.3	107.4	99.3
60"		60.3	60.6	96.7	89.4
66"		54.9	55.1	87.9	81.2
72"		50.3	50.5	80.6	74.5
19–1/8"	96"	150.0	150.0	150.0	150.0
26–1/2"		119.5	120.0	150.0	150.0
30"		105.6	106.0	150.0	150.0
37"		85.6	85.9	137.2	126.8
42"		75.4	75.7	120.9	111.7
48"		66.0	66.3	105.8	97.8
54"		58.7	58.9	94.0	86.9
60"		52.8	53.0	84.6	78.2
66"		48.0	48.2	76.9	71.1
72"		44.0	44.2	50.3	65.2
19–1/8"	108"	147.2	147.8	150.0	150.0
26–1/2"		106.3	106.7	150.0	150.0
30"		93.9	94.2	150.0	139.0
37"		76.1	76.4	121.9	112.7
42"		67.0	67.3	107.4	99.3
48"		58.7	58.9	94.0	86.9
54"		52.1	52.3	83.6	77.2
60"		46.9	47.1	75.2	69.5
66"		42.7	42.8	68.4	63.2
72"		39.1	39.3	62.7	57.9
19–1/8"	120"	132.5	133.0	150.0	150.0
26–1/2"		95.6	96.0	150.0	141.6
30"		84.5	84.8	135.4	125.1
37"		68.5	68.8	109.8	101.4
42"		60.3	60.6	96.7	89.4
48"		52.8	53.0	84.6	78.2
54"		46.9	47.1	75.2	69.5
60"		42.2	42.4	67.7	62.6
66"		38.4	38.5	61.5	56.9
72"		35.2	35.3	56.4	52.1
19–1/8"	132"	120.5	120.9	150.0	150.0
26–1/2"		86.9	87.3	139.3	128.8
30"		76.8	77.1	123.1	113.7
37"		62.3	62.5	99.8	92.2
42"		54.9	55.1	87.9	81.2
48"		48.0	48.2	76.9	71.1
54"		42.7	42.8	68.4	63.2
60"		38.4	38.5	61.5	56.9
66"		34.9	35.0	55.9	51.7
72"		32.0	32.1	51.3	47.4

DESIGN LOAD CAPACITY – PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W4T	B4T	C4T	M4T
19–1/8"	144"	110.4	110.8	150.0	150.0
26–1/2"		79.7	80.0	127.7	118.0
30"		70.4	70.7	112.8	104.3
37"		57.1	57.3	91.5	84.5
42"		50.3	50.5	80.6	74.5
48"		44.0	44.2	70.5	65.2
54"		39.1	39.3	62.7	57.9
60"		35.2	35.3	56.4	52.1
66"		32.0	32.1	51.3	47.4
72"		29.3	29.4	47.0	43.4
19–1/8"	156"	101.9	102.3	150.0	150.0
26–1/2"		73.6	73.8	117.9	109.0
30"		65.0	65.2	104.1	96.2
37"		52.7	52.9	84.4	78.0
42"		46.4	46.6	74.4	68.7
48"		40.6	40.8	46.5	60.2
54"		36.1	36.2	57.8	53.5
60"		32.5	32.6	52.1	48.1
66"		29.5	29.7	47.3	43.7
72"		27.1	27.2	43.4	40.1
19–1/8"	168"	94.7	95.0	150.0	140.2
26–1/2"		68.3	68.6	109.5	101.2
30"		60.3	60.6	96.7	89.4
37"		48.9	49.1	78.4	72.5
42"		43.1	43.3	69.1	63.8
48"		37.7	37.9	60.4	55.9
54"		33.5	33.7	53.7	49.7
60"		30.2	30.3	48.3	44.7
66"		27.4	27.5	43.9	40.6
72"		25.1	25.2	40.3	37.2

TYPICAL ANCHORS AT 'T' CLIP:

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

W4T: INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1–1/2" MIN. PENETRATION INTO WOOD

W4T: THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1–1/4" MIN. EMBED INTO CONCRETE OR BLOCKS

B4T: DIRECTLY INTO HOLLOW/FILLED BLOCKS
1–1/4" MIN. EMBED INTO BLOCK

C4T: DIRECTLY INTO CONCRETE
1–3/4" MIN. EMBED INTO CONCRETE

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

M4T: 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

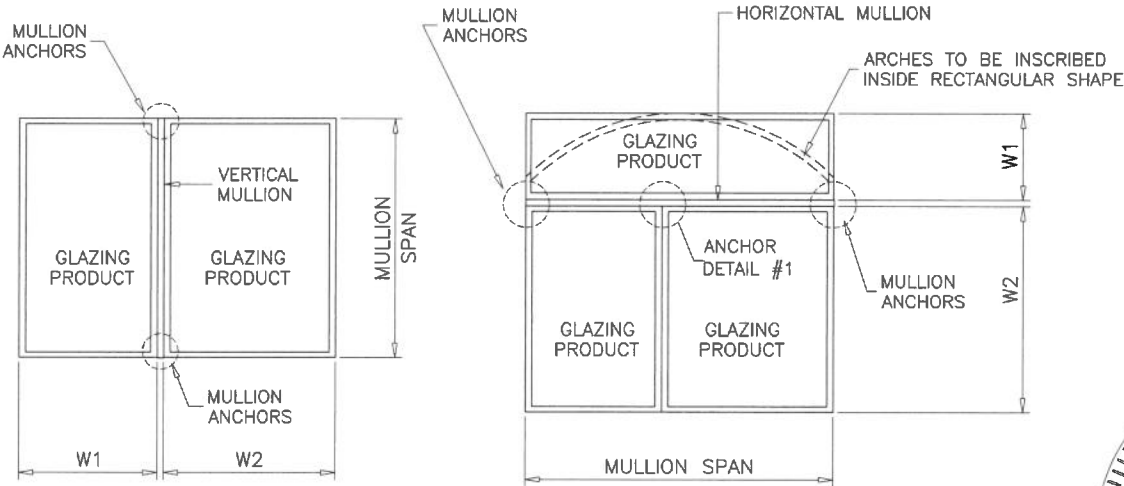
INTO CONCRETE AND BLOCKS = 2–1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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 SHEETS 7 & 8 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)



TYPICAL MULLION ARRANGEMENTS

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

Sealed: 7/31/2026

FL #40673



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

EXTRUDED ALUMINUM CLIPPED MULLIONS

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

revisions:	no	date	by	description

date:	12-21-21
scale:	--
dr. by:	TARIQ
chk. by:	

drawing no.	21-75F
sheet	9 of 17

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2F	B2F	C2F	M2F
19-1/8"	38-3/8"	150.0	150.0	150.0	150.0
26-1/2"		149.5	150.0	150.0	150.0
30"		132.1	132.6	150.0	150.0
37"		107.1	107.5	150.0	150.0
42"		94.3	94.7	150.0	139.7
48"		82.6	82.9	132.3	122.3
54"		73.4	73.7	117.6	108.7
60"		66.0	66.3	105.8	97.8
66"	50-5/8"	60.0	60.3	96.2	88.9
72"		55.0	55.2	88.2	81.5
19-1/8"		150.0	150.0	150.0	150.0
26-1/2"		113.3	113.8	150.0	150.0
30"		100.1	100.5	150.0	148.3
37"		81.2	81.5	130.1	120.2
42"		71.5	71.8	114.6	105.9
48"		62.6	62.8	100.3	92.7
54"		55.6	55.8	89.1	82.4
60"	63"	50.1	50.3	80.2	74.1
66"		45.5	45.7	72.9	67.4
72"		41.7	41.9	66.8	61.8
19-1/8"		126.2	126.7	150.0	150.0
26-1/2"		91.1	91.4	145.9	134.9
30"		80.5	80.8	128.9	119.2
37"		65.2	65.5	104.5	96.6
42"		57.5	57.7	92.1	85.1
48"	74-1/4"	50.3	50.5	80.6	74.5
54"		44.7	44.9	71.6	66.2
60"		40.2	40.4	64.5	59.6
66"		36.6	36.7	58.6	54.2
72"		33.5	33.7	53.7	49.7
19-1/8"		107.1	107.5	150.0	150.0
26-1/2"		77.3	77.6	123.8	114.5
30"		68.3	68.5	109.4	101.1
37"	76"	55.4	55.6	88.7	82.0
42"		48.8	48.9	78.1	72.2
48"		42.7	42.8	68.4	63.2
54"		37.9	38.1	60.8	56.2
60"		34.1	34.3	54.7	50.6
66"		31.0	31.1	49.7	46.0
72"		28.4	28.6	45.6	42.1
19-1/8"	76"	104.6	105.0	150.0	150.0
26-1/2"		75.5	75.8	121.0	111.8
30"		66.7	66.9	106.9	98.8
37"		54.1	54.3	86.6	80.1
42"		47.6	47.8	76.3	70.6
48"		41.7	41.8	66.8	61.7
54"		37.1	37.2	59.4	54.9
60"		33.3	33.5	53.4	49.4
66"	76"	30.3	30.4	48.6	44.9
72"		27.8	27.9	44.5	41.2

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2F	B2F	C2F	M2F
19-1/8"	84"	94.7	95.0	150.0	140.2
26-1/2"		68.3	68.6	109.5	101.2
30"		60.3	60.6	96.7	89.4
37"		48.9	49.1	78.4	72.5
42"		43.1	43.3	69.1	63.8
48"		37.7	37.9	60.4	55.9
54"		33.5	33.7	53.7	49.7
60"		30.2	30.3	48.3	44.7
66"	96"	27.4	27.5	43.9	40.6
72"		25.1	25.2	40.3	37.2
19-1/8"		82.8	83.1	132.7	122.7
26-1/2"		59.8	60.0	95.8	88.5
30"		52.8	53.0	84.6	78.2
37"		42.8	43.0	68.6	63.4
42"		37.7	37.9	60.4	55.9
48"		33.0	33.1	52.9	48.9
54"	108"	29.3	29.4	47.0	43.4
60"		26.4	26.5	42.3	39.1
66"		24.0	24.1	38.5	35.5
72"		22.0	22.1	35.3	32.6
19-1/8"		73.6	73.9	118.0	109.0
26-1/2"		53.1	53.3	85.1	78.7
30"		46.9	47.1	75.2	69.5
37"		38.1	38.2	61.0	56.4
42"	120"	33.5	33.7	53.7	49.7
48"		29.3	29.4	47.0	43.4
54"		26.1	26.2	41.8	38.6
60"		23.5	23.6	37.6	34.8
66"		21.3	21.4	34.2	31.6
72"		-	-	31.3	29.0
19-1/8"		66.3	66.5	106.2	98.1
26-1/2"		47.8	48.0	76.6	70.8
30"	132"	42.2	42.4	67.7	62.6
37"		34.2	34.4	54.9	50.7
42"		30.2	30.3	48.3	44.7
48"		26.4	26.5	42.3	39.1
54"		23.5	23.6	37.6	34.8
60"		21.1	21.2	33.8	31.3
66"		-	-	30.8	28.4
72"		-	-	28.2	26.1
19-1/8"	132"	60.2	60.5	96.5	89.2
26-1/2"		43.5	43.6	69.7	64.4
30"		38.4	38.5	61.5	56.9
37"		31.1	31.3	49.9	46.1
42"		27.4	27.5	43.9	40.6
48"		24.0	24.1	38.5	35.5
54"		21.3	21.4	34.2	31.6
60"		-	-	30.8	28.4
66"	132"	-	-	28.0	25.9
72"		-	-	25.6	23.7

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2F	B2F	C2F	M2F
19-1/8"	144"	55.2	55.4	88.5	81.8
26-1/2"		39.8	40.0	63.8	59.0
30"		35.2	35.3	56.4	52.1
37"		28.5	28.6	45.7	42.3
42"		25.1	25.2	40.3	37.2
48"		22.0	22.1	35.3	32.6
54"		-	-	31.3	29.0
60"		-	-	28.2	26.1
66"	156"	-	-	25.6	23.7
72"		-	-	23.5	21.7
19-1/8"		51.0	51.2	81.7	75.5
26-1/2"		36.8	36.9	58.9	54.5
30"		32.5	32.6	52.1	48.1
37"		26.3	26.4	42.2	39.0
42"		23.2	23.3	37.2	34.4
48"		20.3	20.4	32.5	30.1
54"	168"	-	-	28.9	26.7
60"		-	-	26.0	24.1
66"		-	-	23.7	21.9
72"		-	-	21.7	20.1
19-1/8"		47.3	47.5	75.8	70.1
26-1/2"		34.2	34.3	54.7	50.6
30"		30.2	30.3	48.3	44.7
37"		24.5	24.6	39.2	36.2
42"	168"	21.6	21.6	34.5	31.9
48"		-	-	30.2	27.9
54"		-	-	26.9	24.8
60"		-	-	24.2	22.3
66"		-	-	22.0	20.3
72"		-	-	20.1	-

TYPICAL ANCHORS AT 'F' CLIP:

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

W2F: INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

W2F: THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS

B2F: DIRECTLY INTO HOLLOW/FILLED BLOCKS
1-1/4" MIN. EMBED INTO BLOCK

C2F: DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

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

M2F: 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

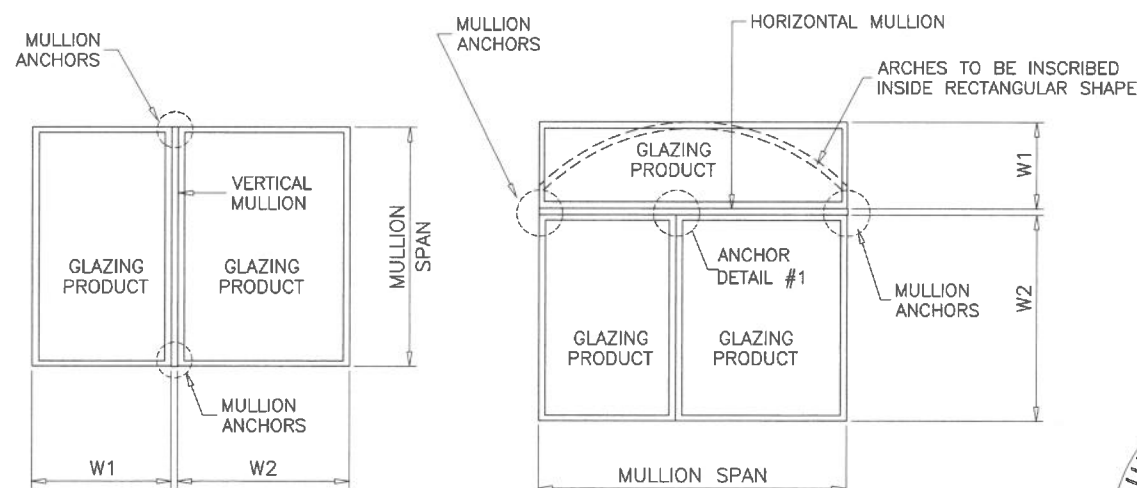
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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 SHEETS 7 & 8 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

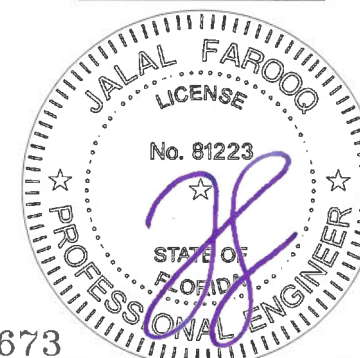


TYPICAL MULLION ARRANGEMENTS

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

Sealed: 7/31/2026

FL #40673



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

EXTRUDED ALUMINUM CLIPPED MULLIONS

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel: (305) 764-3963
www.mrglasswindows.com

revisions:		date:	12-21-21	scale:	by:	chk. by:
no	date	by	description			

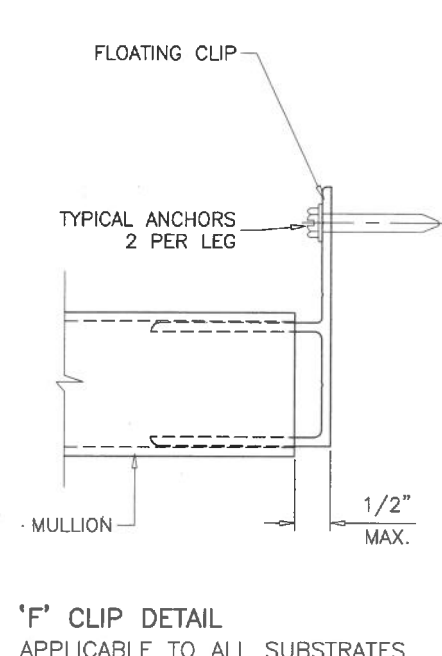
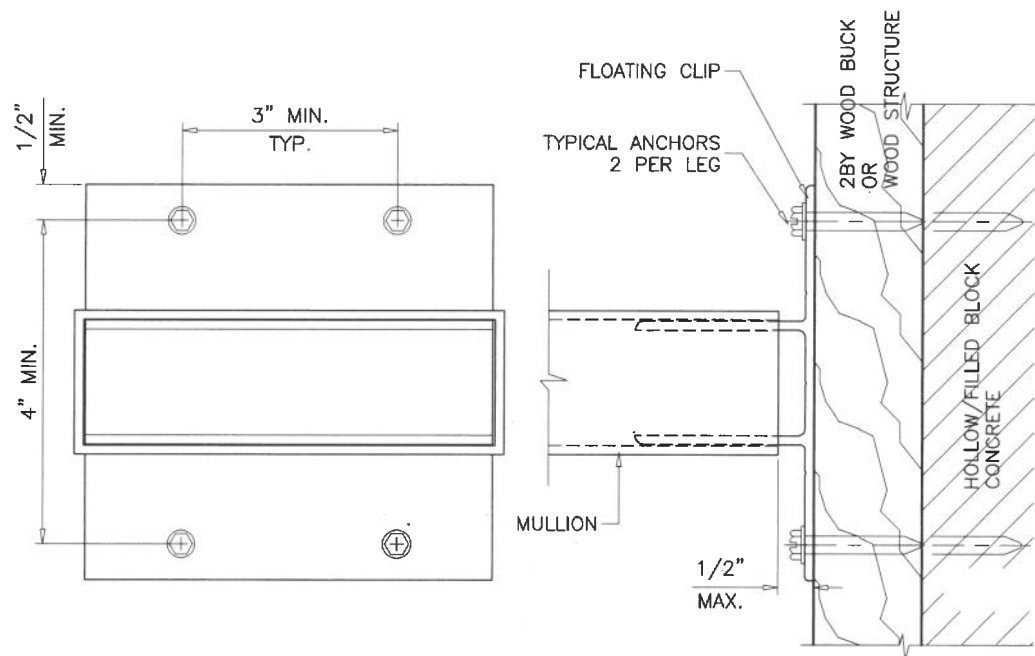
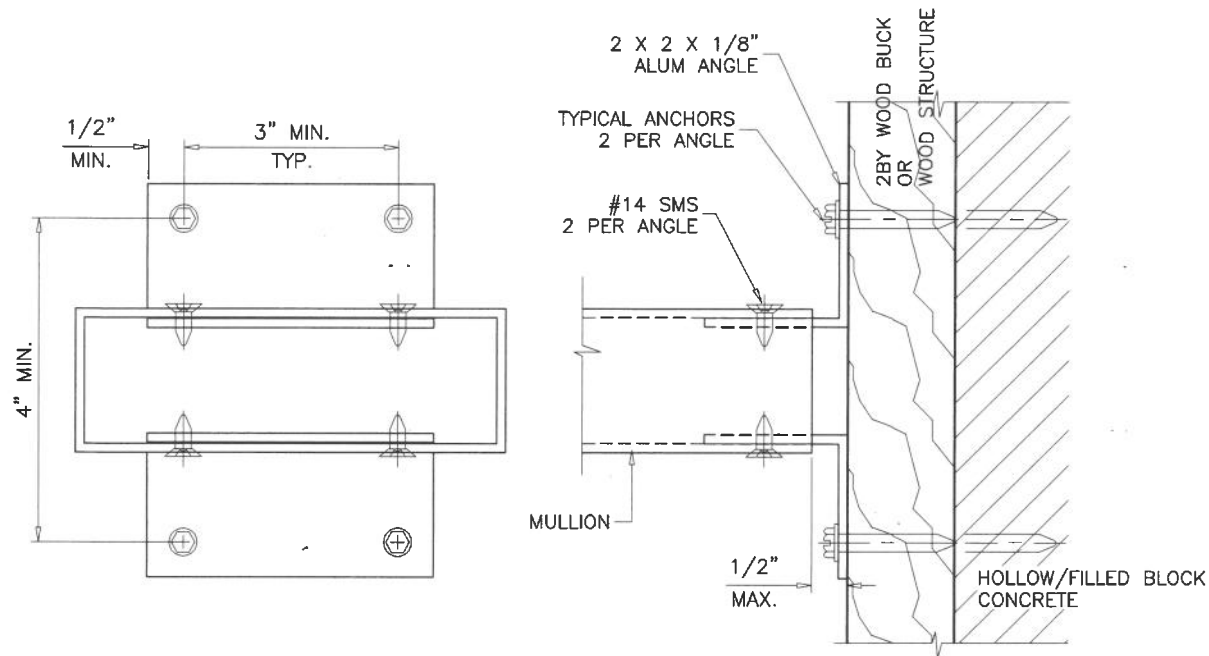
drawing no.

21-75F

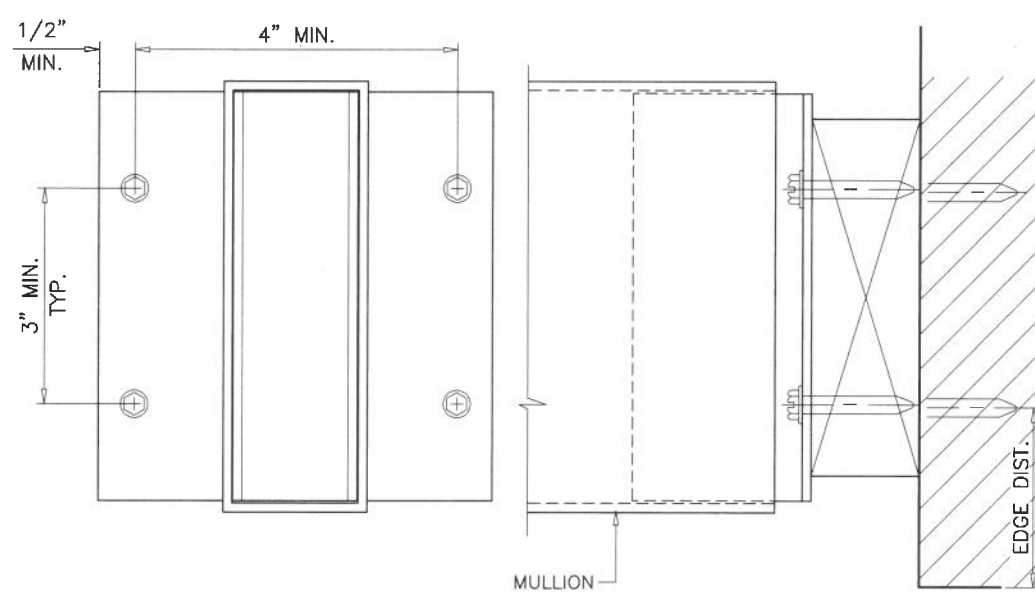
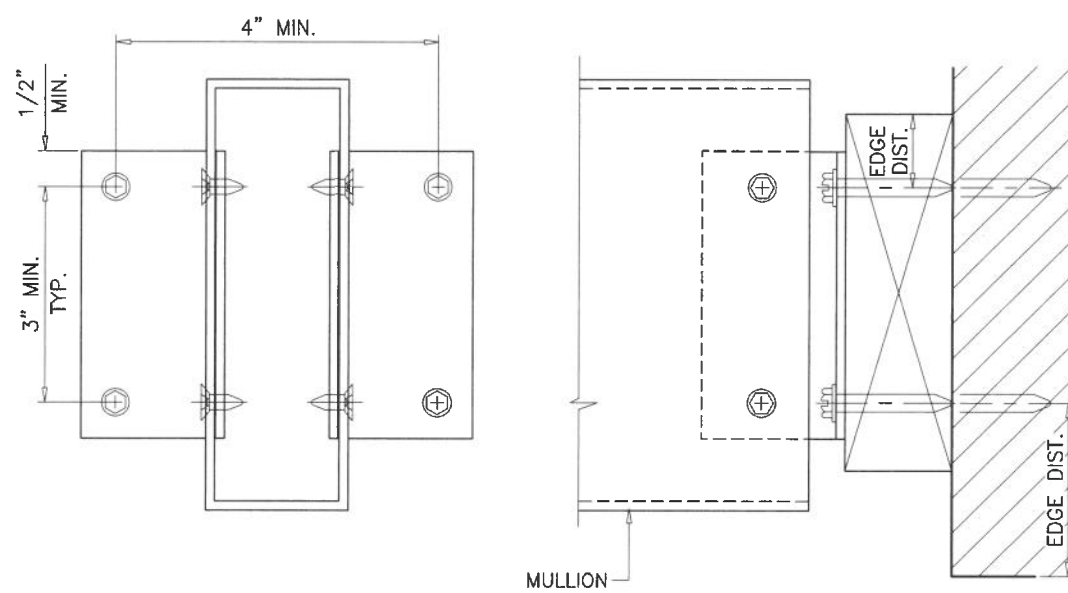
sheet 9.1 of 17

FL #40673

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



'F' CLIP DETAIL
APPLICABLE TO ALL SUBSTRATES
SHOWN FOR 'T' CLIP



TYPICAL ANCHORS TYPE 'W4A'
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 THRU 1BY BUCKS INTO CONC. OR MASONRY

 SEE SHEET 12 FOR 'T' CLIP ANCHOR CAPACITIES
 SEE SHEET 12.1 FOR 'F' CLIP ANCHOR CAPACITIES

Sealed: 7/31/2026



FL #40673

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

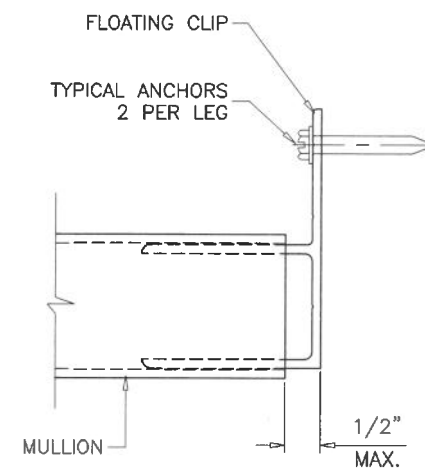
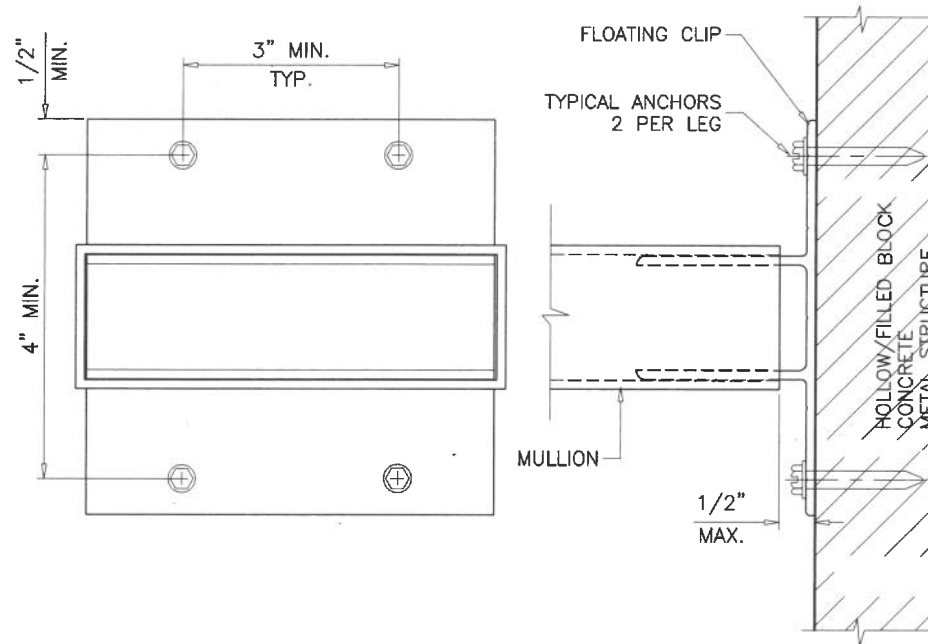
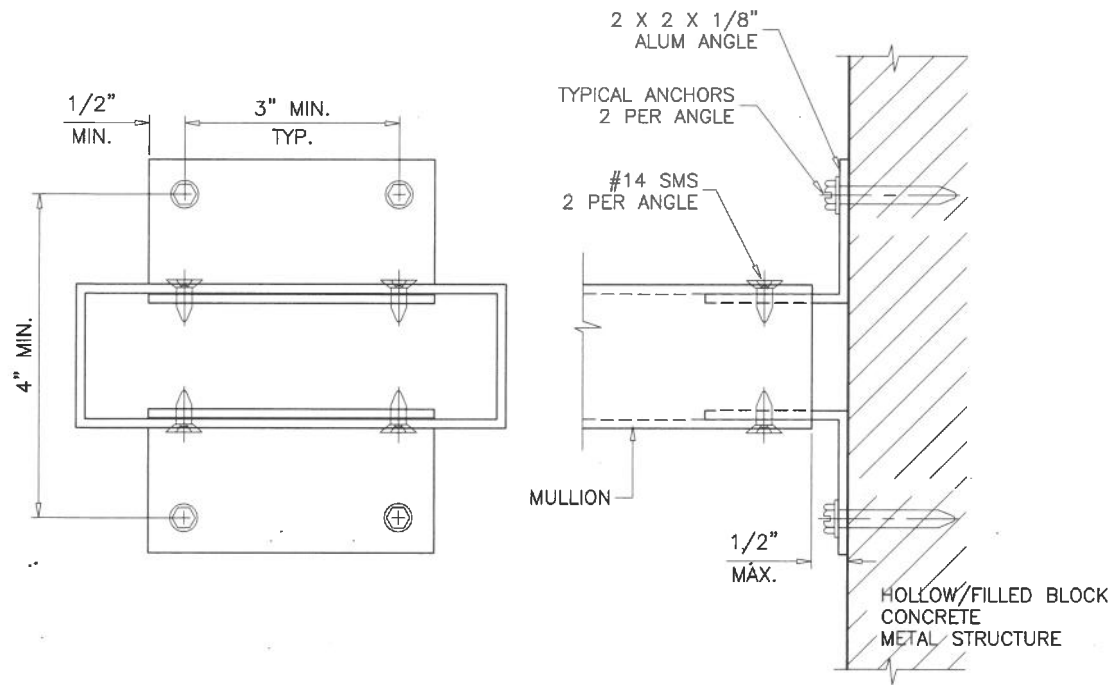
MULLION 21-75F-MG

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
 8051 N.W. 79th Place
 Medley, FL 33166
 Tel. (305) 764-3963
 WWW.MRGLASSWINDOWS.COM

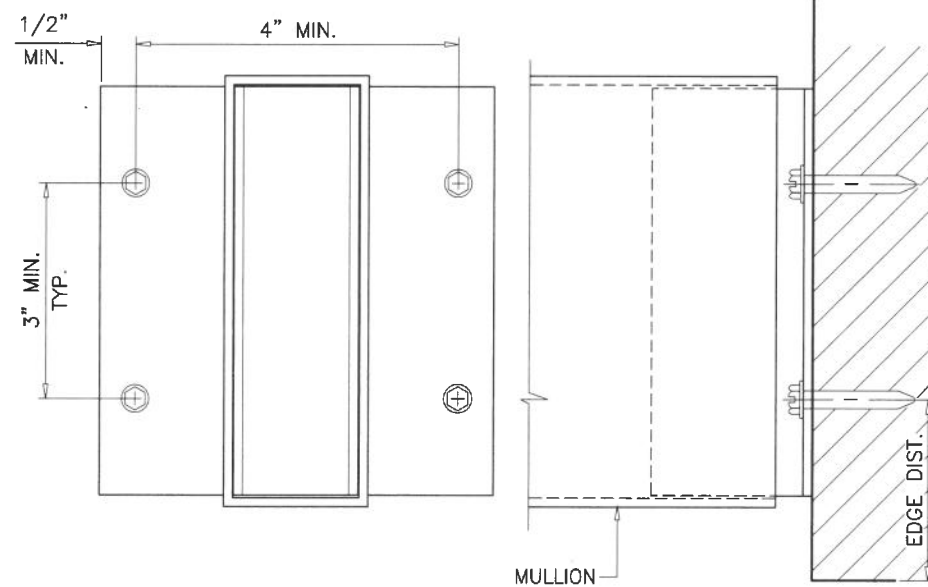
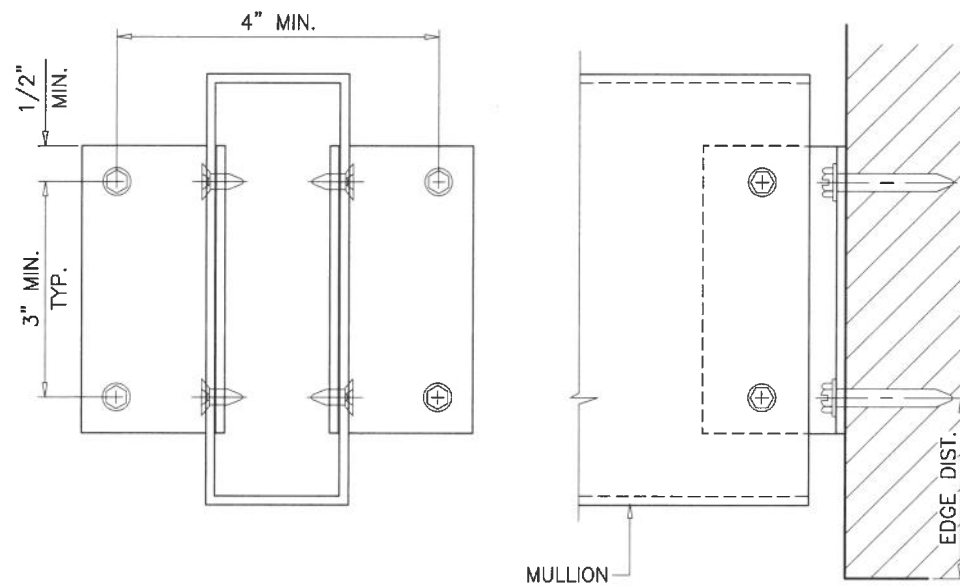
FBPE #3538

revisions:	
no	date by description

date: 12-21-21	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:	drawing no. 21-75F
sheet 10 of 17				



'F' CLIP DETAIL
APPLICABLE TO ALL SUBSTRATES
SHOWN FOR 'T' CLIP



TYPICAL ANCHORS TYPE 'B4A', 'C4A', 'M4A'

DIRECTLY INTO HOLLOW/FILLED BLOCK
DIRECTLY INTO CONCRETE
INTO METAL STRUCTURES

SEE SHEET 12 FOR 'T' CLIP ANCHOR CAPACITIES
SEE SHEET 12.1 FOR 'F' CLIP ANCHOR CAPACITIES

Sealed: 7/31/2026



FL #40673

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538
MULLION 21-75F-MG

EXTRUDED ALUMINUM CLIPPED MULLIONS
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

revisions:		no date by description	
date:	12-21-21	scale:	3/8" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	21-75F	sheet	11 of 17

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W4AT	B4AT	C4AT	M4AT
19-1/8"	38-3/8"	150.0	150.0	150.0	150.0
26-1/2"		150.0	150.0	150.0	150.0
30"		150.0	150.0	150.0	150.0
37"		150.0	150.0	150.0	150.0
42"		150.0	150.0	150.0	150.0
48"		150.0	150.0	150.0	150.0
54"		146.8	150.0	150.0	150.0
60"		132.1	145.1	150.0	150.0
66"		120.1	131.9	150.0	150.0
72"		110.1	120.9	150.0	150.0
19-1/8"	50-5/8"	150.0	150.0	150.0	150.0
26-1/2"		150.0	150.0	150.0	150.0
30"		150.0	150.0	150.0	150.0
37"		150.0	150.0	150.0	150.0
42"		143.0	150.0	150.0	150.0
48"		125.2	137.5	150.0	150.0
54"		111.2	122.2	150.0	150.0
60"		100.1	110.0	150.0	148.3
66"		91.0	100.0	147.2	134.8
72"		83.4	91.7	135.0	123.6
19-1/8"	63"	150.0	150.0	150.0	150.0
26-1/2"		150.0	150.0	150.0	150.0
30"		150.0	150.0	150.0	150.0
37"		130.5	143.3	150.0	150.0
42"		114.9	126.3	150.0	150.0
48"		100.6	110.5	150.0	149.0
54"		89.4	98.2	144.6	132.4
60"		80.5	88.4	130.1	119.2
66"		73.1	80.3	118.3	108.3
72"		67.0	73.7	108.4	99.3
19-1/8"	74-1/4"	150.0	150.0	150.0	150.0
26-1/2"		150.0	150.0	150.0	150.0
30"		136.5	150.0	150.0	150.0
37"		110.7	121.6	150.0	150.0
42"		97.5	107.1	150.0	144.4
48"		85.3	93.7	138.0	126.4
54"		75.9	83.3	122.7	112.3
60"		68.3	75.0	110.4	101.1
66"		62.1	68.2	100.4	91.9
72"		56.9	62.5	92.0	84.3
19-1/8"	76"	150.0	150.0	150.0	150.0
26-1/2"		150.0	150.0	150.0	150.0
30"		133.4	146.5	150.0	150.0
37"		108.2	118.8	150.0	150.0
42"		95.3	104.7	150.0	141.1
48"		83.4	91.6	134.8	123.5
54"		74.1	81.4	119.9	109.8
60"		66.7	73.3	107.9	98.8
66"		60.6	66.6	98.1	89.8
72"		55.6	61.1	89.9	82.3

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W4AT	B4AT	C4AT	M4AT
19-1/8"	84"	150.0	150.0	150.0	150.0
26-1/2"		136.6	150.0	150.0	150.0
30"		120.7	132.6	150.0	150.0
37"		97.9	107.5	150.0	144.9
42"		86.2	94.7	139.4	127.7
48"		75.4	82.9	122.0	111.7
54"		67.0	73.7	108.4	99.3
60"		60.3	66.3	97.6	89.4
66"		54.9	60.3	88.7	81.2
72"		50.3	55.2	81.3	74.5
19-1/8"	96"	150.0	150.0	150.0	150.0
26-1/2"		119.5	131.3	150.0	150.0
30"		105.6	116.0	150.0	150.0
37"		85.6	94.1	138.5	126.8
42"		75.4	82.9	122.0	111.7
48"		66.0	72.5	106.8	97.8
54"		58.7	64.4	94.9	86.9
60"		52.8	58.0	85.4	78.2
66"		48.0	52.7	77.6	71.1
72"		44.0	48.3	71.2	65.2
19-1/8"	108"	147.2	150.0	150.0	150.0
26-1/2"		106.3	116.7	150.0	150.0
30"		93.9	103.1	150.0	139.0
37"		76.1	83.6	123.1	112.7
42"		67.0	73.7	108.4	99.3
48"		58.7	64.4	94.9	86.9
54"		52.1	57.3	84.3	77.2
60"		46.9	51.6	75.9	69.5
66"		42.7	46.9	69.0	63.2
72"		39.1	43.0	63.3	57.9
19-1/8"	120"	132.5	145.6	150.0	150.0
26-1/2"		95.6	105.1	150.0	141.6
30"		84.5	92.8	136.6	125.1
37"		68.5	75.2	110.8	101.4
42"		60.3	66.3	97.6	89.4
48"		52.8	58.0	85.4	78.2
54"		46.9	51.6	75.9	69.5
60"		42.2	46.4	68.3	62.6
66"		38.4	42.2	62.1	56.9
72"		35.2	38.7	56.9	52.1
19-1/8"	132"	120.5	132.3	150.0	150.0
26-1/2"		86.9	95.5	140.6	128.8
30"		76.8	84.4	124.2	113.7
37"		62.3	68.4	100.7	92.2
42"		54.9	60.3	88.7	81.2
48"		48.0	52.7	77.6	71.1
54"		42.7	46.9	69.0	63.2
60"		38.4	42.2	62.1	56.9
66"		34.9	38.3	56.5	51.7
72"		32.0	35.2	51.8	47.4

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W4AT	B4AT	C4AT	M4AT
19-1/8"	144"	110.4	121.3	150.0	150.0
26-1/2"		79.7	87.5	128.9	118.0
30"		70.4	77.3	113.9	104.3
37"		57.1	62.7	92.3	84.5
42"		50.3	55.2	81.3	74.5
48"		44.0	48.3	71.2	65.2
54"		39.1	43.0	63.3	57.9
60"		35.2	38.7	56.9	52.1
66"		32.0	35.2	51.8	47.4
72"		29.3	32.2	4A7.4A	43.4
19-1/8"	156"	101.9	112.0	150.0	150.0
26-1/2"		73.6	80.8	119.0	109.0
30"		65.0	71.4	105.1	96.2
37"		52.7	57.9	85.2	78.0
42"		46.4	51.0	75.1	68.7
48"		40.6	44.6	65.7	60.2
54"		36.1	39.7	58.4	53.5
60"		32.5	35.7	52.6	48.1
66"		29.5	32.4	47.8	43.7
72"		27.1	29.7	43.8	40.1
19-1/8"	168"	94.7	104.0	150.0	140.2
26-1/2"		68.3	75.0	110.5	101.2
30"		60.3	66.3	97.6	89.4
37"		48.9	53.7	79.1	72.5
42"		43.1	47.3	69.7	63.8
48"		37.7	41.4	61.0	55.9
54"		33.5	36.8	54.2	49.7
60"		30.2	33.1	48.8	44.7
66"		27.4	30.1	44.4	40.6
72"		25.1	27.6	40.7	37.2

TYPICAL ANCHORS AT 'T' CLIP:

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

W4AT: INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

W4AT: THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS

B4AT: DIRECTLY INTO HOLLOW/FILLED BLOCKS
1-1/4" MIN. EMBED INTO BLOCK

C4AT: DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

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

M4AT: 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

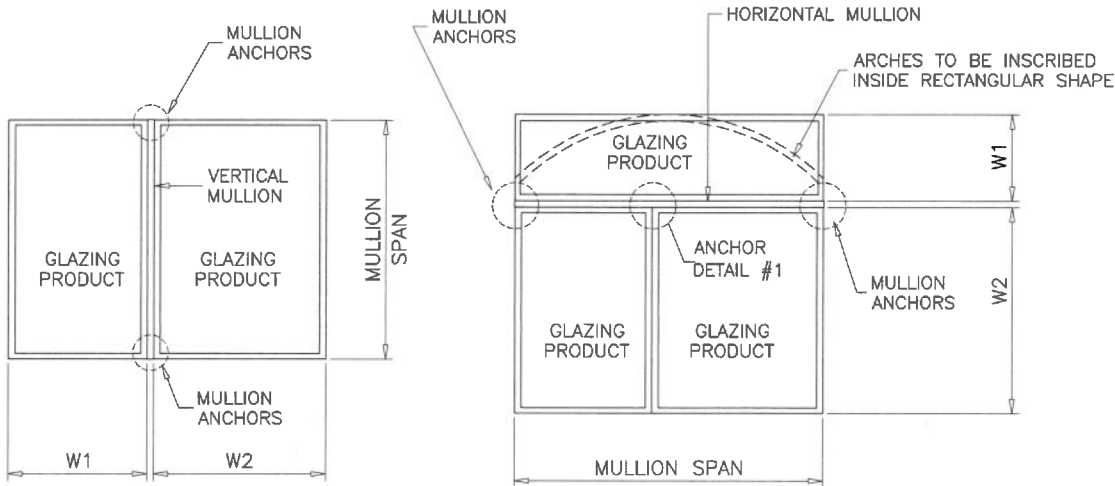
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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 SHEETS 10 & 11 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)



TYPICAL MULLION ARRANGEMENTS

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

Sealed: 7/31/2026

FL #40673



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

EXTRUDED ALUMINUM CLIPPED MULLIONS
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

revisions:	no	date	by	description
date:	12-21-21			
scale:	-			
dr. by:	TARIQ			
chk. by:				
drawing no.	21-75F			
sheet	12 of 17			

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2AF	B2AF	C2AF	M2AF
19-1/8"	38-3/8"	150.0	150.0	150.0	150.0
26-1/2"		149.5	150.0	150.0	150.0
30"		132.1	145.1	150.0	150.0
37"		107.1	117.6	150.0	150.0
42"		94.3	103.6	150.0	139.7
48"		82.6	90.7	133.5	122.3
54"		73.4	80.6	118.7	108.7
60"		66.0	72.5	106.8	97.8
66"	50-5/8"	60.0	66.0	97.1	88.9
72"		55.0	60.5	89.0	81.5
19-1/8"		150.0	150.0	150.0	150.0
26-1/2"		113.3	124.5	150.0	150.0
30"		100.1	110.0	150.0	148.3
37"		81.2	89.2	131.3	120.2
42"		71.5	78.6	115.7	105.9
48"		62.6	68.7	101.2	92.7
54"		55.6	61.1	90.0	82.4
60"		50.1	55.0	81.0	74.1
66"		45.5	50.0	73.6	67.4
72"		41.7	45.8	67.5	61.8
19-1/8"	63"	126.2	138.6	150.0	150.0
26-1/2"		91.1	100.1	147.3	134.9
30"		80.5	88.4	130.1	119.2
37"		65.2	71.7	105.5	96.6
42"		57.5	63.1	93.0	85.1
48"		50.3	55.2	81.3	74.5
54"		44.7	49.1	72.3	66.2
60"		40.2	44.2	65.1	59.6
66"	74-1/4"	36.6	40.2	59.2	54.2
72"		33.5	36.8	54.2	49.7
19-1/8"		107.1	117.6	150.0	150.0
26-1/2"		77.3	84.9	125.0	114.5
30"		68.3	75.0	110.4	101.1
37"		55.4	60.8	89.5	82.0
42"		48.8	53.6	78.9	72.2
48"		42.7	46.9	69.0	63.2
54"		37.9	41.7	61.3	56.2
60"		34.1	37.5	55.2	50.6
66"	76"	31.0	34.1	50.2	46.0
72"		28.4	31.2	46.0	42.1
19-1/8"		104.6	114.9	150.0	150.0
26-1/2"		75.5	82.9	122.1	111.8
30"		66.7	73.3	107.9	98.8
37"		54.1	59.4	87.5	80.1
42"		47.6	52.3	77.1	70.6
48"		41.7	45.8	67.4	61.7
54"	120"	37.1	40.7	59.9	54.9
60"		33.3	36.6	53.9	49.4
66"		30.3	33.3	49.0	44.9
72"		27.8	30.5	44.9	41.2

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2AF	B2AF	C2AF	M2AF
19-1/8"	84"	94.7	104.0	150.0	140.2
26-1/2"		68.3	75.0	110.5	101.2
30"		60.3	66.3	97.6	89.4
37"		48.9	53.7	79.1	72.5
42"		43.1	47.3	69.7	63.8
48"		37.7	41.4	61.0	55.9
54"		33.5	36.8	54.2	49.7
60"		30.2	33.1	48.8	44.7
66"	96"	27.4	30.1	44.4	40.6
72"		25.1	27.6	40.7	37.2
19-1/8"		82.8	91.0	134.0	122.7
26-1/2"		59.8	65.7	96.7	88.5
30"		52.8	58.0	85.4	78.2
37"		42.8	47.0	69.2	63.4
42"		37.7	41.4	61.0	55.9
48"		33.0	36.3	53.4	48.9
54"	108"	29.3	32.2	47.4	43.4
60"		26.4	29.0	42.7	39.1
66"		24.0	26.4	38.8	35.5
72"		22.0	24.2	35.6	32.6
19-1/8"		73.6	80.9	119.1	109.0
26-1/2"		53.1	58.4	85.9	78.7
30"		46.9	51.6	75.9	69.5
37"		38.1	41.8	61.5	56.4
42"	120"	33.5	36.8	54.2	49.7
48"		29.3	32.2	47.4	43.4
54"		26.1	28.6	42.2	38.6
60"		23.5	25.8	38.0	34.8
66"		21.3	23.4	34.5	31.6
72"		-	21.5	31.6	29.0
19-1/8"		66.3	72.8	107.2	98.1
26-1/2"		47.8	52.5	77.3	70.8
30"	132"	42.2	46.4	68.3	62.6
37"		34.2	37.6	55.4	50.7
42"		30.2	33.1	48.8	44.7
48"		26.4	29.0	42.7	39.1
54"		23.5	25.8	38.0	34.8
60"		21.1	23.2	34.2	31.3
66"		-	21.1	31.1	28.4
72"		-	-	28.5	26.1
19-1/8"	168"	60.2	66.2	97.4	89.2
26-1/2"		43.5	47.8	70.3	64.4
30"		38.4	42.2	62.1	56.9
37"		31.1	34.2	50.4	46.1
42"		27.4	30.1	44.4	40.6
48"		24.0	26.4	38.8	35.5
54"		21.3	23.4	34.5	31.6
60"		-	21.1	31.1	28.4
66"	168"	-	-	28.2	25.9
72"		-	-	25.9	23.7
19-1/8"		51.0	56.0	82.4	75.5
26-1/2"		36.8	40.4	59.5	54.5
30"		32.5	35.7	52.6	48.1
37"		26.3	28.9	42.6	39.0
42"		23.2	25.5	37.5	34.4
48"		20.3	22.3	32.8	30.1
54"	156"	-	-	29.2	26.7
60"		-	-	26.3	24.1
66"		-	-	23.9	21.9
72"		-	-	21.9	20.1
19-1/8"	168"	47.3	52.0	76.5	70.1
26-1/2"		34.2	37.5	55.2	50.6
30"		30.2	33.1	48.8	44.7
37"		24.5	26.9	39.6	36.2
42"		21.6	23.7	34.9	31.9
48"		-	20.7	30.5	27.9
54"		-	-	27.1	24.8
60"		-	-	24.4	22.3
66"	168"	-	-	22.2	20.3
72"		-	-	20.3	-

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2AF	B2AF	C2AF	M2AF
19-1/8"	144"	55.2	60.7	89.3	81.8
26-1/2"		39.8	43.8	64.5	59.0
30"		35.2	38.7	56.9	52.1
37"		28.5	31.4	46.2	42.3
42"		25.1	27.6	40.7	37.2
48"		22.0	24.2	35.6	32.6
54"		-	21.5	31.6	29.0
60"		-	-	28.5	26.1
66"	156"	-	-	25.9	23.7
72"		-	-	23.7	21.7
19-1/8"		51.0	56.0	82.4	75.5
26-1/2"		36.8	40.4	59.5	54.5
30"		32.5	35.7	52.6	48.1
37"		26.3	28.9	42.6	39.0
42"		23.2	25.5	37.5	34.4
48"		20.3	22.3	32.8	30.1
54"	168"	-	-	29.2	26.7
60"		-	-	26.3	24.1
66"		-	-	23.9	21.9
72"		-	-	21.9	20.1
19-1/8"	168"	47.3	52.0	76.5	70.1
26-1/2"		34.2	37.5	55.2	50.6
30"		30.2	33.1	48.8	44.7
37"		24.5	26.9	39.6	36.2
42"		21.6	23.7	34.9	31.9
48"		-	20.7	30.5	27.9
54"		-	-	27.1	24.8
60"		-	-	24.4	22.3
66"	168"	-	-	22.2	20.3
72"		-	-	20.3	-

TYPICAL ANCHORS AT 'F' CLIP:

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

W2AF: INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

W2AF: THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS

B2AF: DIRECTLY INTO HOLLOW/FILLED BLOCKS
1-1/4" MIN. EMBED INTO BLOCK

C2AF: DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

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

M2AF: 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

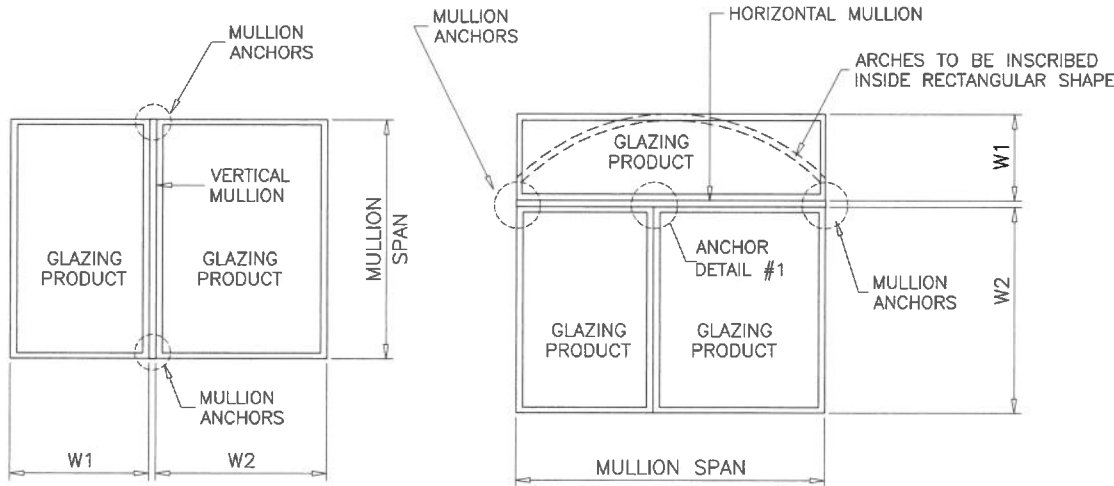
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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 SHEETS 10 & 11 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)



TYPICAL MULLION ARRANGEMENTS

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

Sealed: 7/31/2026

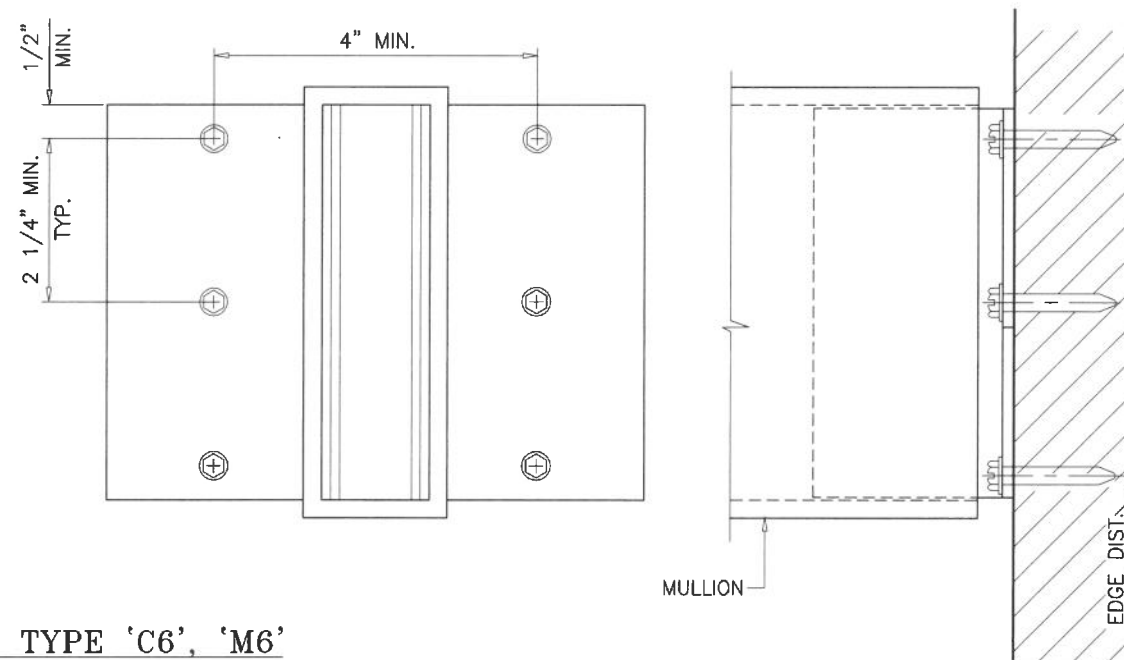
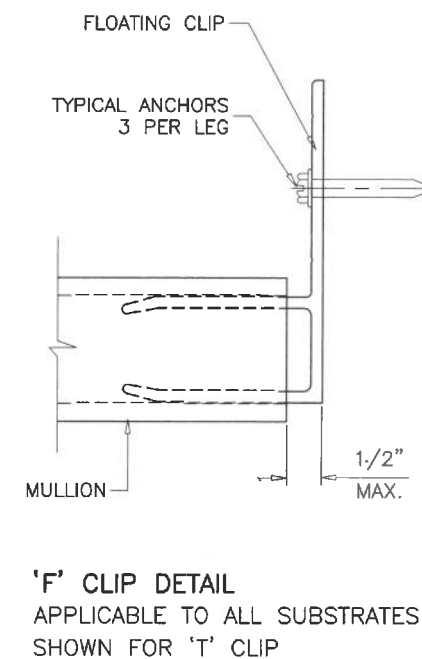
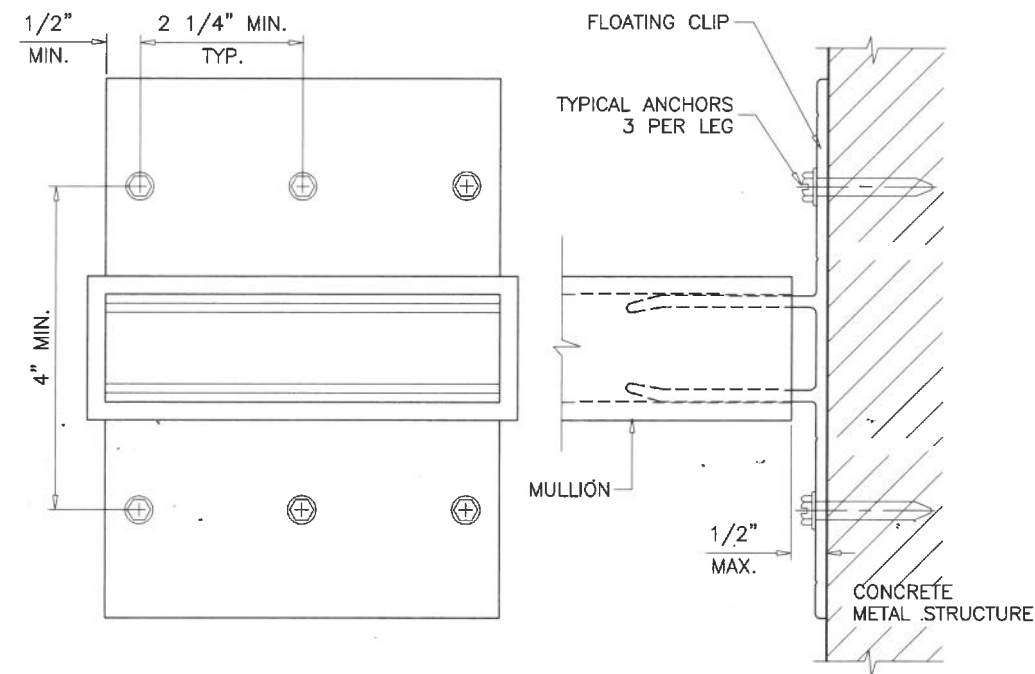
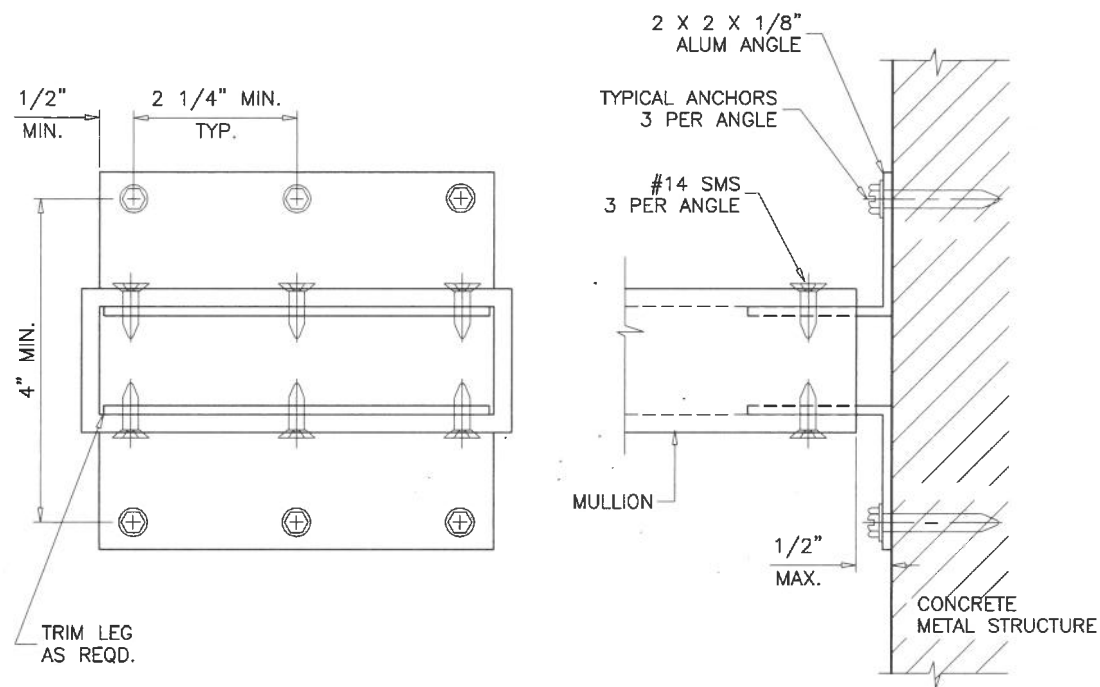
FL #40673



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

EXTRUDED ALUMINUM CLIPPED MULLIONS
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3963
www.mrglasswindows.com

revisions:		no date by description	
date:	12-21-21	scale:	-
dr.	TARIQ	chk.	by:
drawing no.	21-75F	sheet 12.1 of 17	



TYPICAL ANCHORS TYPE 'C6', 'M6'
DIRECTLY INTO CONCRETE
INTO METAL STRUCTURES

SEE SHEET 14 FOR 'T' CLIP ANCHOR CAPACITIES
SEE SHEET 14.1 FOR 'F' CLIP ANCHOR CAPACITIES

Sealed: 7/31/2026



FL #40673

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

af c
MULLION 21-75F-MG

EXTRUDED ALUMINUM CLIPPED MULLIONS
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

FBPE #3538

revisions:		no	date	by	description
date:	12-21-21	scale:	3/8" = 1"	dr. by:	TARIQ
chk. by:					

drawing no.
21-75F

sheet 13 of 17

DESIGN LOAD CAPACITY - PSF				DESIGN LOAD CAPACITY - PSF				DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHORS TYPE		WINDOW DIMS.		ANCHORS TYPE		WINDOW DIMS.		ANCHORS TYPE	
WIDTH (W)	MULL SPAN	C6T	M6T	WIDTH (W)	MULL SPAN	C6T	M6T	WIDTH (W)	MULL SPAN	C6T	M6T
19-1/8"	38-3/8"	150.0	150.0	19-1/8"	84"	150.0	150.0	19-1/8"	144"	150.0	150.0
26-1/2"		150.0	150.0	26-1/2"		150.0	150.0	26-1/2"		150.0	150.0
30"		150.0	150.0	30"		150.0	150.0	30"		150.0	150.0
37"		150.0	150.0	37"		150.0	150.0	37"		137.2	126.8
42"		150.0	150.0	42"		150.0	150.0	42"		120.9	111.7
48"		150.0	150.0	48"		150.0	150.0	48"		105.8	97.8
54"		150.0	150.0	54"		150.0	149.0	54"		94.0	86.9
60"		150.0	150.0	60"		145.0	134.1	60"		84.6	78.2
66"	50-5/8"	150.0	150.0	66"	96"	131.8	121.9	66"	156"	76.9	71.1
72"		150.0	150.0	72"		120.9	111.7	72"		70.5	65.2
19-1/8"		150.0	150.0	19-1/8"		150.0	150.0	19-1/8"		150.0	150.0
26-1/2"		150.0	150.0	26-1/2"		150.0	150.0	26-1/2"		150.0	150.0
30"		150.0	150.0	30"		150.0	150.0	30"		150.0	144.4
37"		150.0	150.0	37"		150.0	150.0	37"		126.6	117.1
42"		150.0	150.0	42"		150.0	150.0	42"		111.6	103.1
48"		150.0	150.0	48"		150.0	146.6	48"		97.6	90.2
54"	63"	150.0	150.0	54"	108"	141.0	130.3	54"	168"	86.8	80.2
60"		150.0	150.0	60"		126.9	117.3	60"		78.	72.2
66"		150.0	150.0	66"		115.4	106.6	66"		71.0	65.6
72"		150.0	150.0	72"		105.8	97.8	72"		65.1	60.2
19-1/8"		150.0	150.0	19-1/8"		150.0	150.0	19-1/8"		150.0	150.0
26-1/2"		150.0	150.0	26-1/2"		150.0	150.0	26-1/2"		150.0	150.0
30"		150.0	150.0	30"		150.0	150.0	30"		145.0	134.1
37"		150.0	150.0	37"		150.0	150.0	37"		117.6	108.7
42"	74-1/4"	150.0	150.0	42"	120"	150.0	149.0	42"		103.6	95.8
48"		150.0	150.0	48"		141.0	130.3	48"		90.6	83.8
54"		150.0	150.0	54"		125.3	115.9	54"		80.6	74.5
60"		150.0	150.0	60"		112.8	104.3	60"		72.5	67.0
66"		150.0	150.0	66"		102.5	94.8	66"		65.9	60.9
72"		150.0	149.0	72"		94.0	86.9	72"		60.4	55.9
19-1/8"		150.0	150.0	19-1/8"		150.0	150.0	19-1/8"		150.0	150.0
26-1/2"		150.0	150.0	26-1/2"		150.0	150.0	26-1/2"		150.0	150.0
30"	76"	150.0	150.0	30"	132"	150.0	150.0	30"		150.0	150.0
37"		150.0	150.0	37"		150.0	150.0	37"		149.7	138.3
42"		150.0	150.0	42"		150.0	150.0	42"		149.7	138.3
48"		150.0	150.0	48"		149.7	138.3	48"		131.8	121.9
54"		150.0	150.0	54"		131.8	121.9	54"		115.4	106.6
60"		150.0	150.0	60"		115.4	106.6	60"		102.5	94.8
66"		150.0	148.2	66"		102.5	94.8	66"		92.3	85.3
72"		145.7	134.7	72"		92.3	85.3	72"		83.9	77.6
19-1/8"	76"	150.0	150.0	19-1/8"	132"	150.0	150.0	19-1/8"		150.0	150.0
26-1/2"		150.0	150.0	26-1/2"		150.0	150.0	26-1/2"		150.0	150.0
30"		150.0	150.0	30"		150.0	150.0	30"		150.0	150.0
37"		150.0	150.0	37"		149.7	138.3	37"		149.7	138.3
42"		150.0	150.0	42"		131.8	121.9	42"		131.8	121.9
48"		150.0	150.0	48"		115.4	106.6	48"		115.4	106.6
54"		150.0	150.0	54"		102.5	94.8	54"		102.5	94.8
60"		150.0	148.2	60"		92.3	85.3	60"		92.3	85.3
66"	76"	145.7	134.7	66"		83.9	77.6	66"		83.9	77.6
72"		133.6	123.5	72"		76.9	71.1	72"		76.9	71.1

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

TYPICAL ANCHORS AT 'T' CLIP:

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

C6T: DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

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

M6T: 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

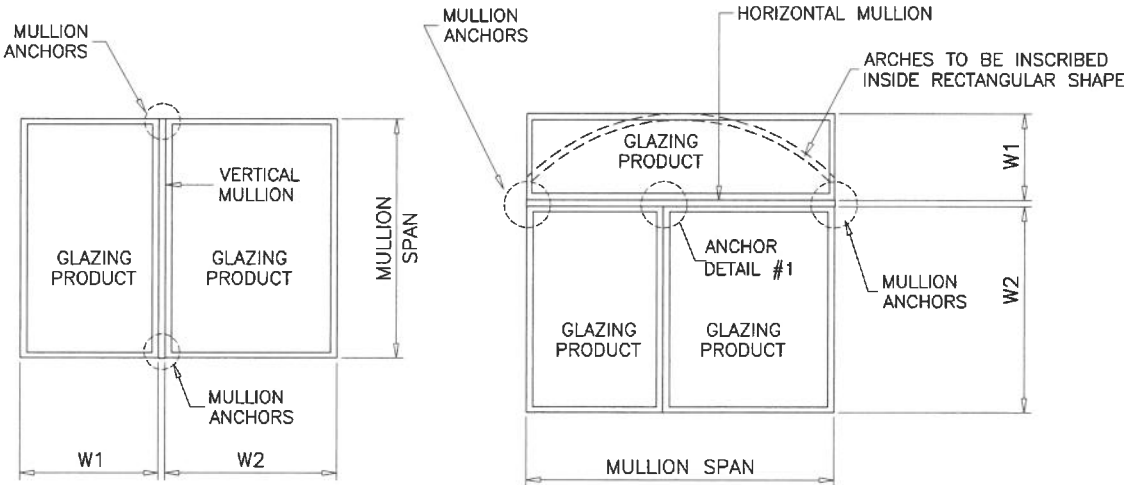
INTO CONCRETE = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 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 13 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)



TYPICAL MULLION ARRANGEMENTS

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

Sealed: 7/31/2026

FL #40673



af c

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

EXTRUDED ALUMINUM CLIPPED MULLIONS

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

revisions:

no	date	by	description

date: 12-21-21

scale: -

dr. by: TARIQ

chk. by:

drawing no.

21-75F

sheet 14 of 17

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHORS TYPE	
WIDTH (W)	MULL SPAN	C3F	M3F
19-1/8"	38-3/8"	150.0	150.0
26-1/2"		150.0	150.0
30"		150.0	150.0
37"		150.0	150.0
42"		150.0	150.0
48"		150.0	150.0
54"		150.0	150.0
60"		150.0	146.7
66"	50-5/8"	144.3	133.4
72"		132.3	122.3
19-1/8"		150.0	150.0
26-1/2"		150.0	150.0
30"		150.0	150.0
37"		150.0	150.0
42"		150.0	150.0
48"		150.0	139.0
54"		133.7	123.6
60"		120.3	111.2
66"		109.4	101.1
72"		100.3	92.7
19-1/8"	63"	150.0	150.0
26-1/2"		150.0	150.0
30"		150.0	150.0
37"		150.0	144.9
42"		138.1	127.7
48"		120.9	111.7
54"		107.4	99.3
60"		96.7	89.4
66"	74-1/4"	87.9	81.2
72"		80.6	74.5
19-1/8"		150.0	150.0
26-1/2"		150.0	150.0
30"		150.0	150.0
37"		133.0	123.0
42"		117.2	108.3
48"		102.5	94.8
54"		91.2	84.3
60"		82.0	75.8
66"		74.6	68.9
72"		68.4	63.2
19-1/8"	76"	150.0	150.0
26-1/2"		150.0	150.0
30"		150.0	148.2
37"		130.0	120.1
42"		114.5	105.8
48"		100.2	92.6
54"		89.1	82.3
60"		80.1	74.1
66"	132"	72.9	67.3
72"		66.8	61.7
19-1/8"		144.8	133.8
26-1/2"		104.5	96.6
30"		92.3	85.3
37"		74.8	69.2
42"		65.9	60.9
48"		57.7	53.3
54"		51.3	47.4
60"		46.1	42.7
66"		42.0	150.0
72"		38.5	150.0

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHORS TYPE	
WIDTH (W)	MULL SPAN	C3F	M3F
19-1/8"	84"	150.0	150.0
26-1/2"		150.0	150.0
30"		145.0	134.1
37"		117.6	108.7
42"		103.6	95.8
48"		90.6	83.8
54"		80.6	74.5
60"		72.5	67.0
66"	96"	65.9	60.9
72"		60.4	55.9
19-1/8"		150.0	150.0
26-1/2"		143.7	132.8
30"		126.9	117.3
37"		102.9	95.1
42"		90.6	83.8
48"		79.3	73.3
54"		70.5	65.2
60"		63.5	58.7
66"		57.7	53.3
72"		52.9	48.9
19-1/8"	108"	150.0	150.0
26-1/2"		127.7	118.0
30"		112.8	104.3
37"		91.5	84.5
42"		80.6	74.5
48"		70.5	65.2
54"		62.7	57.9
60"		56.4	52.1
66"	120"	51.3	47.4
72"		47.0	43.4
19-1/8"		150.0	147.2
26-1/2"		114.9	106.2
30"		101.5	93.8
37"		82.3	76.1
42"		72.5	67.0
48"		63.5	58.7
54"		56.4	52.1
60"		50.8	46.9
66"		46.1	42.7
72"		42.3	39.1
19-1/8"	120"	150.0	147.2
26-1/2"		114.9	106.2
30"		101.5	93.8
37"		82.3	76.1
42"		72.5	67.0
48"		63.5	58.7
54"		56.4	52.1
60"		50.8	46.9
66"	132"	46.1	42.7
72"		42.3	39.1
19-1/8"		150.0	147.2
26-1/2"		114.9	106.2
30"		101.5	93.8
37"		82.3	76.1
42"		72.5	67.0
48"		63.5	58.7
54"		56.4	52.1
60"		50.8	46.9
66"		46.1	42.7
72"		42.3	39.1
19-1/8"	132"	150.0	147.2
26-1/2"		114.9	106.2
30"		101.5	93.8
37"		82.3	76.1
42"		72.5	67.0
48"		63.5	58.7
54"		56.4	52.1
60"		50.8	46.9
66"	156"	46.1	42.7
72"		42.3	39.1
19-1/8"		150.0	147.2
26-1/2"		114.9	106.2
30"		101.5	93.8
37"		82.3	76.1
42"		72.5	67.0
48"		63.5	58.7
54"		56.4	52.1
60"		50.8	46.9
66"		46.1	42.7
72"		42.3	39.1
19-1/8"	168"	113.7	105.1
26-1/2"		82.1	75.9
30"		72.5	67.0
37"		58.8	54.3
42"		51.8	47.9
48"		45.3	41.9
54"		40.3	37.2
60"		36.3	33.5
66"	168"	33.0	30.5
72"		30.2	27.9
19-1/8"		113.7	105.1
26-1/2"		82.1	75.9
30"		72.5	67.0
37"		58.8	54.3
42"		51.8	47.9
48"		45.3	41.9
54"		40.3	37.2
60"		36.3	33.5
66"		33.0	30.5
72"		30.2	27.9

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHORS TYPE	
WIDTH (W)	MULL SPAN	C3F	M3F
19-1/8"	144"	132.7	122.7
26-1/2"		95.8	88.5
30"		84.5	78.2
37"		68.6	63.4
42"		60.4	55.9
48"		52.9	48.9
54"		47.0	43.4
60"		42.3	39.1
66"	156"	38.5	35.5
72"		35.3	32.6
19-1/8"		122.5	113.2
26-1/2"		88.4	81.7
30"		78.1	72.2
37"		63.3	58.5
42"		55.8	51.6
48"		48.8	45.1
54"		43.4	40.1
60"		39.0	36.1
66"		35.5	32.8
72"		32.5	30.1
19-1/8"	168"	113.7	105.1
26-1/2"		82.1	75.9
30"		72.5	67.0
37"		58.8	54.3
42"		51.8	47.9
48"		45.3	41.9
54"		40.3	37.2
60"		36.3	33.5
66"	168"	33.0	30.5
72"		30.2	27.9
19-1/8"		113.7	105.1
26-1/2"		82.1	75.9
30"		72.5	67.0
37"		58.8	54.3
42"		51.8	47.9
48"		45.3	41.9
54"		40.3	37.2
60"		36.3	33.5
66"		33.0	30.5
72"		30.2	27.9

TYPICAL ANCHORS AT 'F' CLIP:

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

C3F: DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

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

M3F: 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

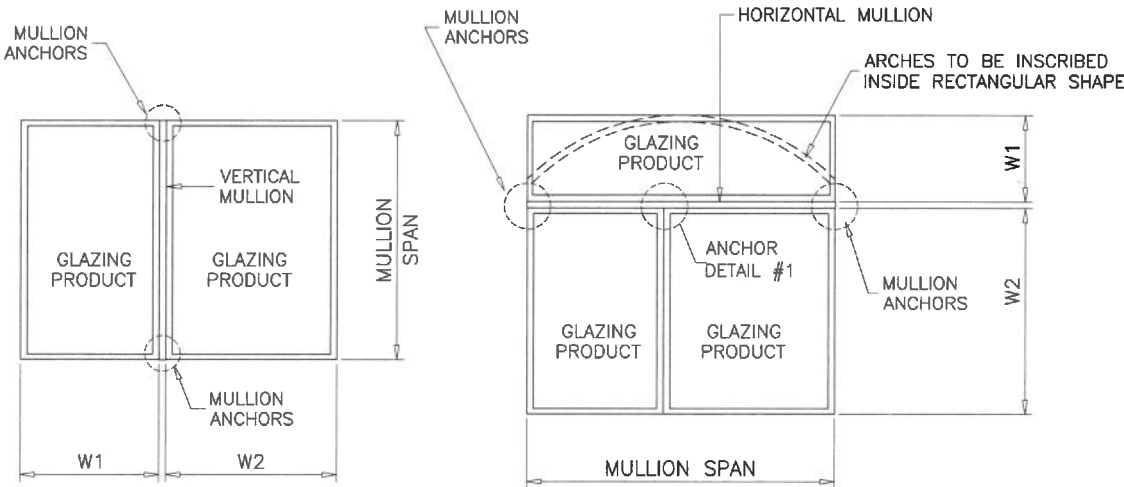
INTO CONCRETE = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 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 13 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)



TYPICAL MULLION ARRANGEMENTS

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

Sealed: 7/31/2026

FL #40673



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL: (305) 264-8100
WWW.AFCENG.COM

EXTRUDED ALUMINUM CLIPPED MULLIONS

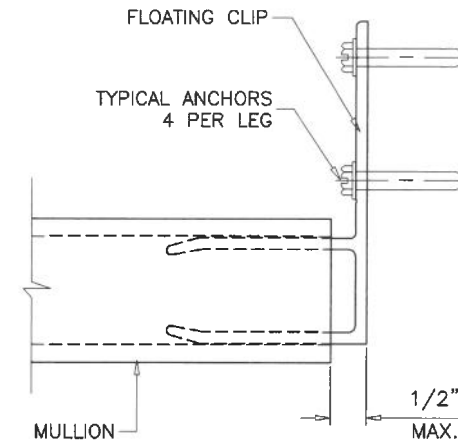
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel: (305) 764-3963
www.mrglasswindows.com

revisions:

no	date	by	description

date: 12-21-21
scale: -
dr. by: TARIQ
chk. by:

drawing no.
21-75F
sheet 14.1 of 17

[illegible]

DESIGN LOAD CAPACITY – PSF				DESIGN LOAD CAPACITY – PSF				DESIGN LOAD CAPACITY – PSF			
WINDOW DIMS.		ANCHORS TYPE		WINDOW DIMS.		ANCHORS TYPE		WINDOW DIMS.		ANCHORS TYPE	
WIDTH (W)	MULL SPAN	C4F	M4F	WIDTH (W)	MULL SPAN	C4F	M4F	WIDTH (W)	MULL SPAN	C4F	M4F
19–1/8"	38–3/8"	150.0	150.0	19–1/8"	84"	150.0	150.0	19–1/8"	144"	150.0	150.0
26–1/2"		150.0	150.0	26–1/2"		150.0	150.0	26–1/2"		127.7	118.0
30"		150.0	150.0	30"		150.0	150.0	30"		112.8	104.3
37"		150.0	150.0	37"		150.0	144.9	37"		91.5	84.5
42"		150.0	150.0	42"		138.1	127.7	42"		80.6	74.5
48"		150.0	150.0	48"		120.9	111.7	48"		70.5	65.2
54"		150.0	150.0	54"		107.4	99.3	54"		62.7	57.9
60"		150.0	150.0	60"		96.7	89.4	60"		56.4	52.1
66"		150.0	150.0	66"		87.9	81.2	66"		51.3	47.4
72"		150.0	150.0	72"		80.6	74.5	72"		47.0	43.4
19–1/8"	50–5/8"	150.0	150.0	19–1/8"	96"	150.0	150.0	19–1/8"	156"	150.0	150.0
26–1/2"		150.0	150.0	26–1/2"		150.0	150.0	26–1/2"		117.9	109.0
30"		150.0	150.0	30"		150.0	150.0	30"		104.1	96.2
37"		150.0	150.0	37"		137.2	126.8	37"		84.4	78.0
42"		150.0	150.0	42"		120.9	111.7	42"		74.4	68.7
48"		150.0	150.0	48"		105.8	97.8	48"		65.1	60.2
54"		150.0	150.0	54"		94.0	86.9	54"		57.8	53.5
60"		150.0	148.3	60"		84.6	78.2	60"		52.1	48.1
66"		145.8	134.8	66"		76.9	71.1	66"		47.3	43.7
72"		133.7	123.6	72"		70.5	65.2	72"		43.4	40.1
19–1/8"	63"	150.0	150.0	19–1/8"	108"	150.0	150.0	19–1/8"	168"	150.0	140.2
26–1/2"		150.0	150.0	26–1/2"		150.0	150.0	26–1/2"		109.5	101.2
30"		150.0	150.0	30"		150.0	139.0	30"		96.7	89.4
37"		150.0	150.0	37"		121.9	112.7	37"		78.4	72.5
42"		150.0	150.0	42"		107.4	99.3	42"		69.1	63.8
48"		150.0	149.0	48"		94.0	86.9	48"		60.4	55.9
54"		143.2	132.4	54"		83.6	77.2	54"		53.7	49.7
60"		128.9	119.2	60"		75.2	69.5	60"		48.3	44.7
66"		117.2	108.3	66"		68.4	63.2	66"		43.9	40.6
72"		107.4	99.3	72"		62.7	57.9	72"		40.3	37.2
19–1/8"	74–1/4"	150.0	150.0	19–1/8"	120"	150.0	150.0				
26–1/2"		150.0	150.0	26–1/2"		150.0	141.6				
30"		150.0	150.0	30"		135.4	125.1				
37"		150.0	150.0	37"		109.8	101.4				
42"		150.0	144.4	42"		96.7	89.4				
48"		136.7	126.4	48"		84.6	78.2				
54"		121.5	112.3	54"		75.2	69.5				
60"		109.4	101.1	60"		67.7	62.6				
66"		99.4	91.9	66"		61.5	56.9				
72"		91.2	84.3	72"		56.4	52.1				
19–1/8"	76"	150.0	150.0	19–1/8"	132"	150.0	150.0				
26–1/2"		150.0	150.0	26–1/2"		139.3	128.8				
30"		150.0	150.0	30"		123.1	113.7				
37"		150.0	150.0	37"		99.8	92.2				
42"		150.0	141.1	42"		87.9	81.2				
48"		133.6	123.5	48"		76.9	71.1				
54"		118.7	109.8	54"		68.4	63.2				
60"		106.9	98.8	60"		61.5	56.9				
66"		97.1	89.8	66"		55.9	51.7				
72"		89.1	82.3	72"		51.3	47.4				

TYPICAL MULLION ARRANGEMENTS

TYPICAL ANCHORS AT 'F' CLIP:

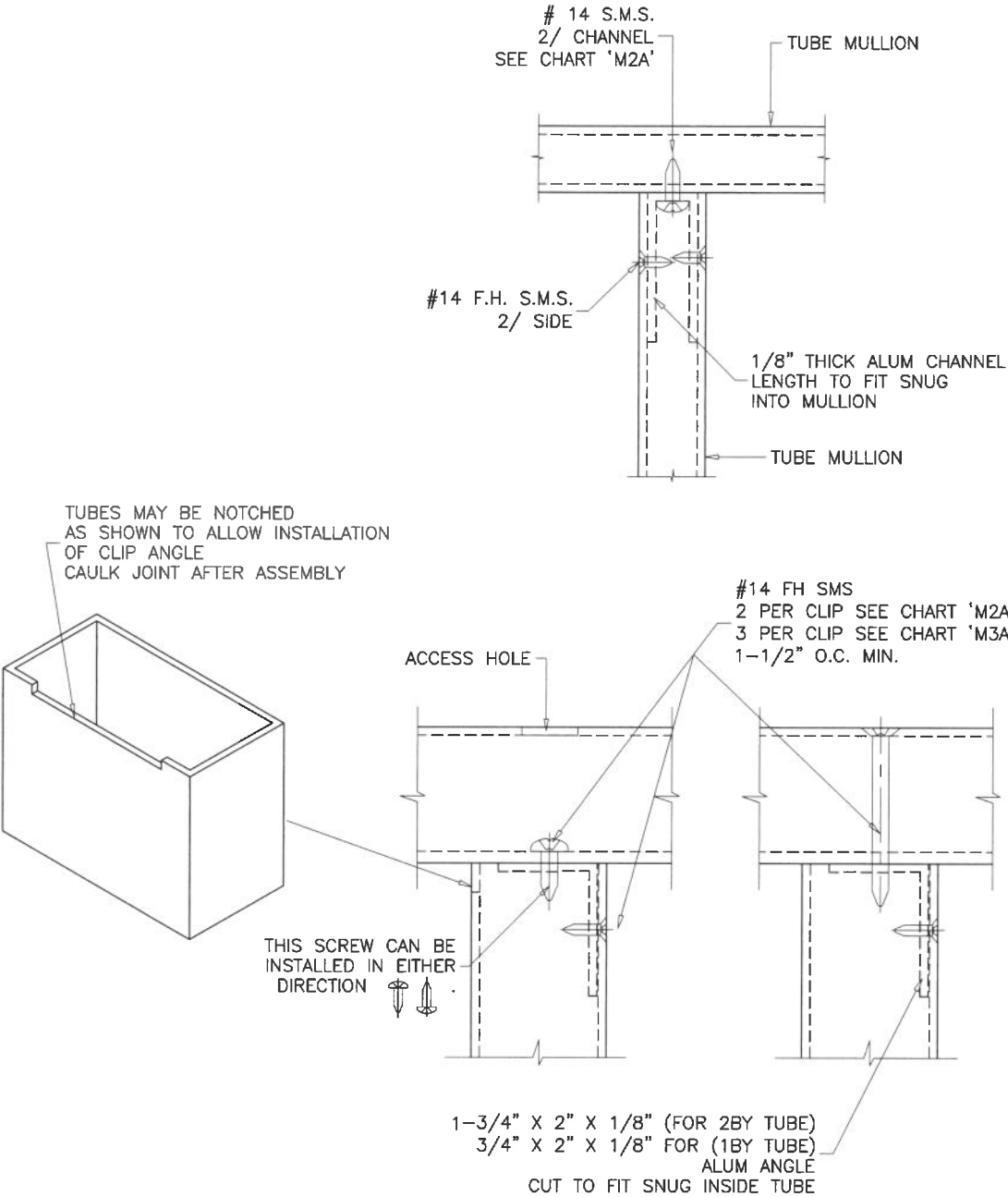
Sealed: 7/31/2026

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
MULLION\21-75F-MG

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHORS TYPE	
WIDTH (W)	MULL SPAN	M2A	M3A
19-1/8"	38-3/8"	150.0	150.0
26-1/2"		150.0	150.0
30"		150.0	150.0
37"		150.0	150.0
42"		150.0	150.0
48"		140.1	150.0
54"		124.5	150.0
60"		112.1	150.0
66"	50-5/8"	101.9	150.0
72"		93.4	140.1
19-1/8"		150.0	150.0
26-1/2"		150.0	150.0
30"		150.0	150.0
37"		137.8	150.0
42"		121.4	150.0
48"		106.2	150.0
54"		94.4	141.6
60"		85.0	127.4
66"		77.2	115.8
72"		70.8	106.2
19-1/8"	63"	150.0	150.0
26-1/2"		150.0	150.0
30"		136.5	150.0
37"		110.7	150.0
42"		97.5	146.3
48"		85.3	128.0
54"		75.9	113.8
60"		68.3	102.4
66"	74-1/4"	62.1	93.1
72"		56.9	85.3
19-1/8"		150.0	150.0
26-1/2"		131.1	150.0
30"		115.8	150.0
37"		93.9	140.9
42"		82.7	124.1
48"		72.4	108.6
54"		64.4	96.5
60"		57.9	86.9
66"		52.7	79.0
72"		48.3	72.4
19-1/8"	76"	150.0	150.0
26-1/2"		128.1	150.0
30"		113.2	150.0
37"		91.8	137.7
42"		80.8	121.3
48"		70.7	106.1
54"		62.9	94.3
60"		56.6	84.9
66"	84"	51.4	77.2
72"		47.2	70.7
19-1/8"		150.0	150.0
26-1/2"		140.5	150.0
30"		89.6	134.4
37"		72.6	109.0
42"		64.0	96.0
48"		56.0	84.0
54"		49.8	74.7
60"		44.8	67.2
66"		40.7	61.1
72"		37.3	56.0

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHORS TYPE	
WIDTH (W)	MULL SPAN	M2A	M3A
19-1/8"	84"	150.0	150.0
26-1/2"		115.9	150.0
30"		102.4	150.0
37"		83.0	124.5
42"		73.1	109.7
48"		64.0	96.0
54"		56.9	85.3
60"		51.2	76.8
66"	96"	46.5	69.8
72"		42.7	64.0
19-1/8"		140.5	150.0
26-1/2"		101.4	150.0
30"		89.6	134.4
37"		72.6	109.0
42"		64.0	96.0
48"		56.0	84.0
54"		49.8	74.7
60"		44.8	67.2
66"		40.7	61.1
72"		37.3	56.0
19-1/8"	108"	124.9	150.0
26-1/2"		90.2	135.2
30"		79.6	119.5
37"		64.6	96.9
42"		56.9	85.3
48"		49.8	74.7
54"		44.2	66.4
60"		39.8	59.7
66"	120"	36.2	54.3
72"		33.2	49.8
19-1/8"		112.4	150.0
26-1/2"		81.1	121.7
30"		71.7	107.5
37"		58.1	87.2
42"		51.2	76.8
48"		44.8	67.2
54"		39.8	59.7
60"		35.8	53.8
66"		32.6	48.9
72"		29.9	44.8
19-1/8"	132"	102.2	150.0
26-1/2"		73.8	110.7
30"		65.2	97.7
37"		52.8	79.3
42"		46.5	69.8
48"		40.7	61.1
54"		36.2	54.3
60"		32.6	48.9
66"	144"	29.6	44.4
72"		27.2	40.7
19-1/8"		86.5	129.7
26-1/2"		62.4	93.6
30"		55.1	82.7
37"		44.7	67.1
42"		39.4	59.1
48"		34.5	51.7
54"	156"	30.6	45.9
60"		27.6	41.4
66"		25.1	37.6
72"		23.0	34.5
19-1/8"		80.3	120.5
26-1/2"		58.0	86.9
30"		51.2	76.8
37"		41.5	62.3
42"	168"	36.6	54.9
48"		32.0	48.0
54"		28.4	42.7
60"		25.6	38.4
66"		23.3	34.9
72"		21.3	32.0

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHORS TYPE	
WIDTH (W)	MULL SPAN	M2A	M3A
19-1/8"	144"	93.7	140.5
26-1/2"		67.6	101.4
30"		59.7	89.6
37"		48.4	72.6
42"		42.7	64.0
48"		37.3	56.0
54"		33.2	49.8
60"		29.9	44.8
66"	156"	27.2	40.7
72"		24.9	37.3
19-1/8"		86.5	129.7
26-1/2"		62.4	93.6
30"		55.1	82.7
37"		44.7	67.1
42"		39.4	59.1
48"		34.5	51.7
54"		30.6	45.9
60"		27.6	41.4
66"		25.1	37.6
72"		23.0	34.5
19-1/8"	168"	80.3	120.5
26-1/2"		58.0	86.9
30"		51.2	76.8
37"		41.5	62.3
42"		36.6	54.9
48"		32.0	48.0
54"		28.4	42.7
60"		25.6	38.4
66"	180"	23.3	34.9
72"		21.3	32.0



ANCHOR DETAIL #1
METAL TO METAL CONNECTION

Sealed: 7/31/2026



FL #40673

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

EXTRUDED ALUMINUM CLIPPED MULLIONS
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

revisions:
no date by description
date: 12-21-21
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:
drawing no.
21-75F
sheet 17 of 17