

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 PER PRODUCT APPROVAL.
- STEP 4** USING CHARTS ON SHEET 3 & 3.1 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 18, SELECT ANCHOR TYPE WITH DESIGN RATING MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.

EXTRUDED ALUMINUM TUBE MULLIONS
USING MULLION PROPERTIES ONLY

MULLION SYSTEM IS RATED FOR LARGE 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.

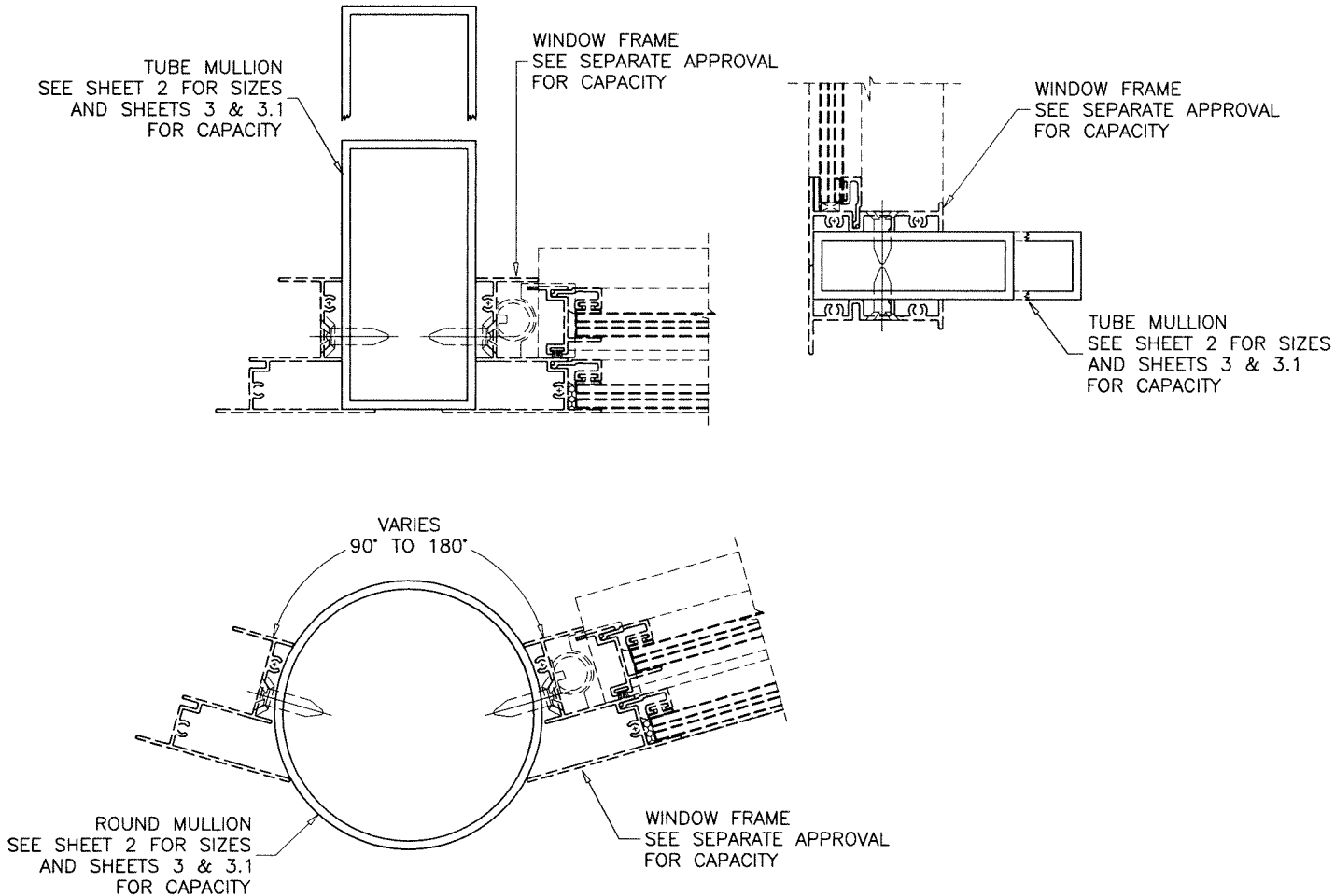
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.



MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS
HORIZONTAL OR VERTICAL

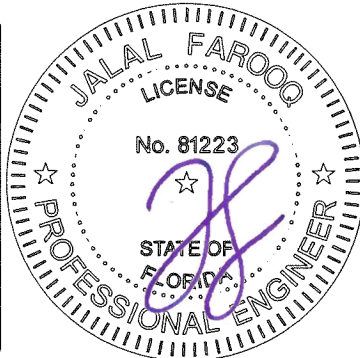
SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING

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: 9/1/2026

FL #31169

- 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.



THESE MULLIONS CAN ONLY BE USED WITH
'SUNSHINE WINDOWS' GLAZING PRODUCTS

afc

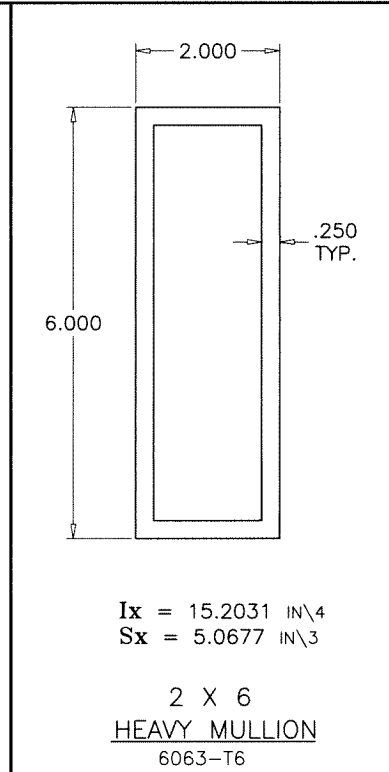
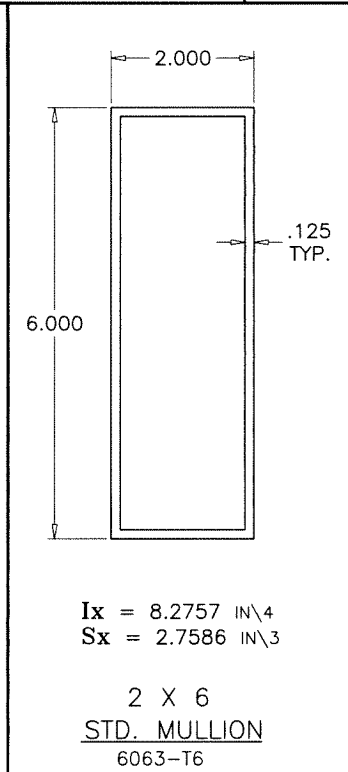
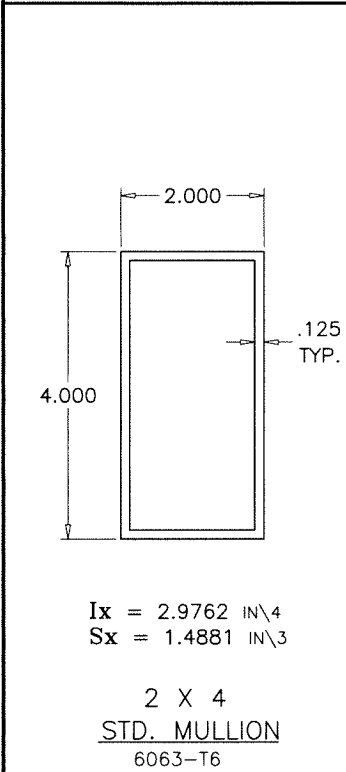
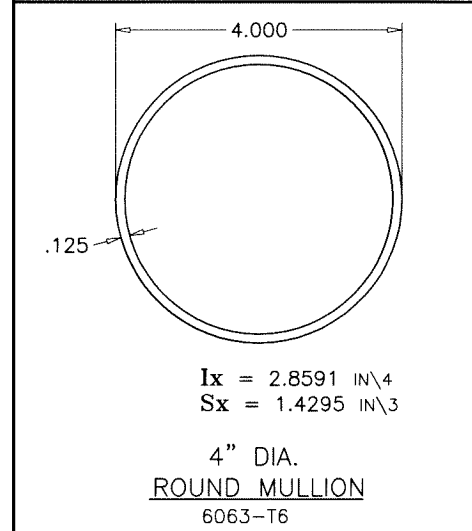
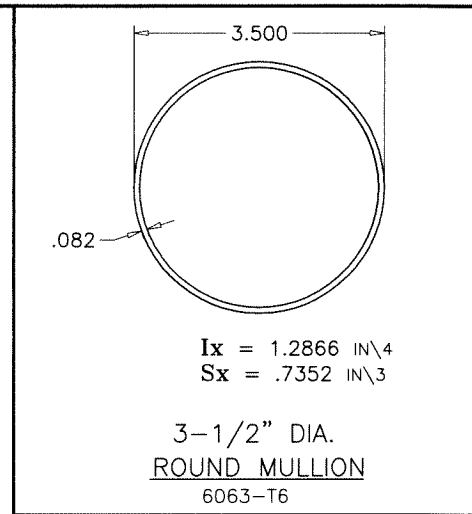
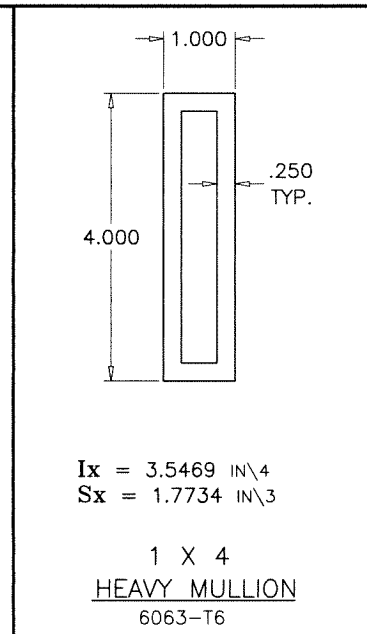
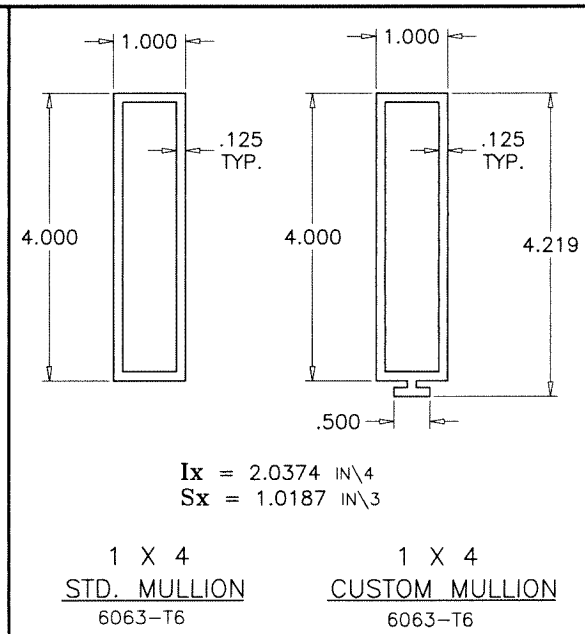
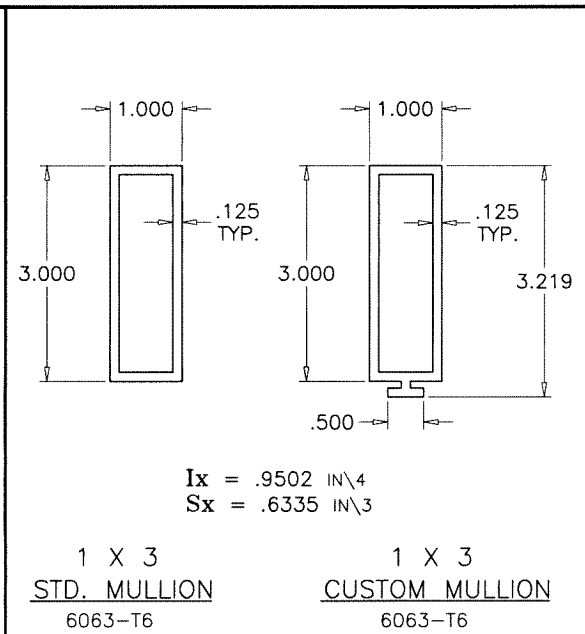
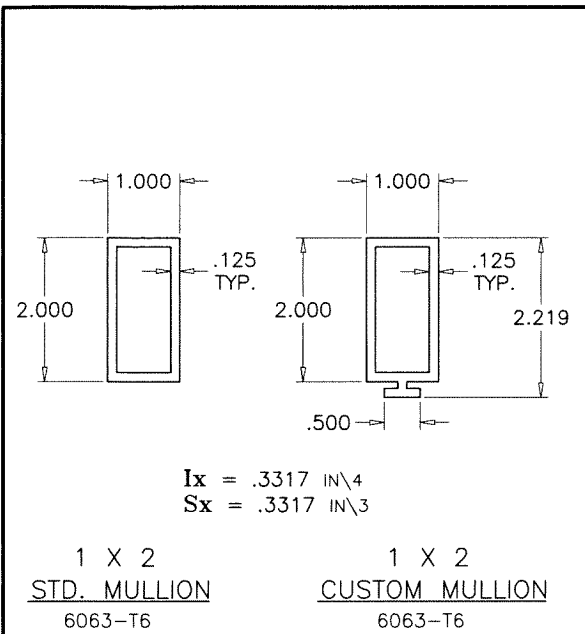
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL: (305) 264-8100 FAX: (305) 262-6978
(C.A.N. 3538)

MULLION\19-119F-SWM

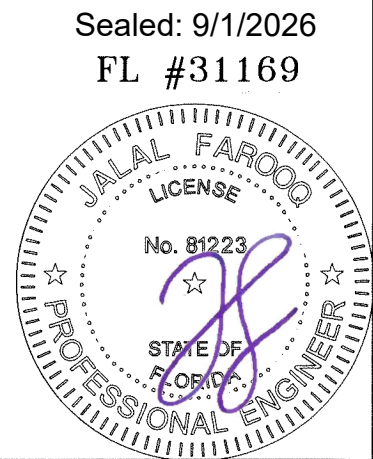
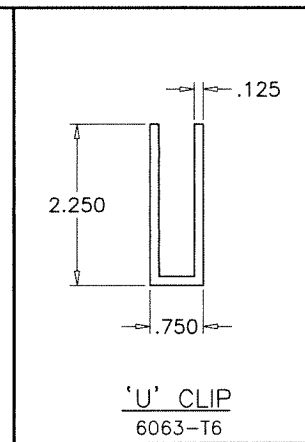
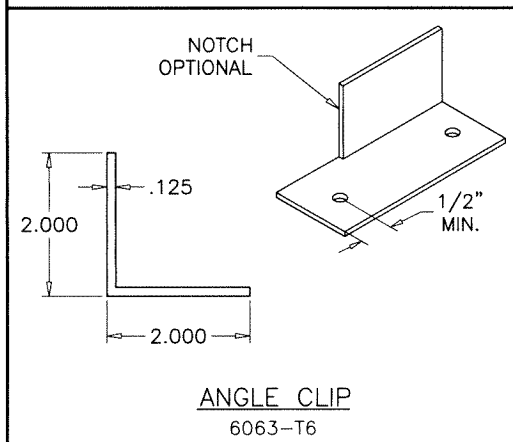
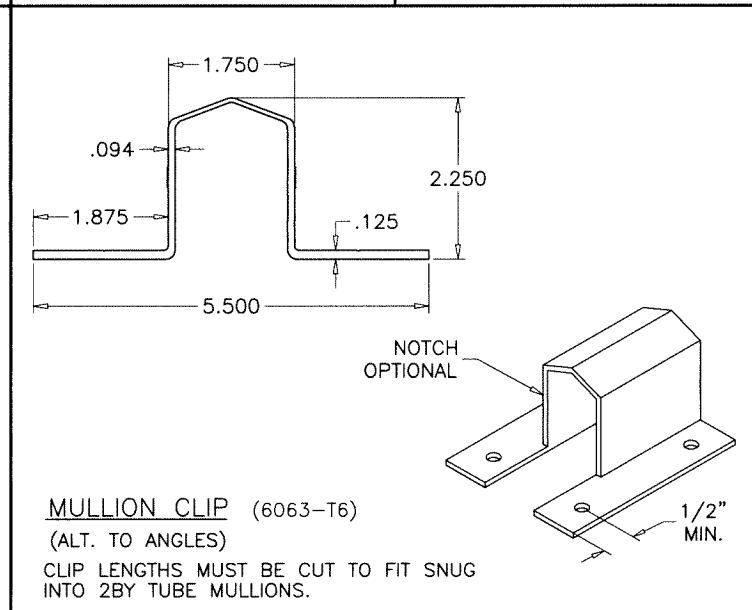
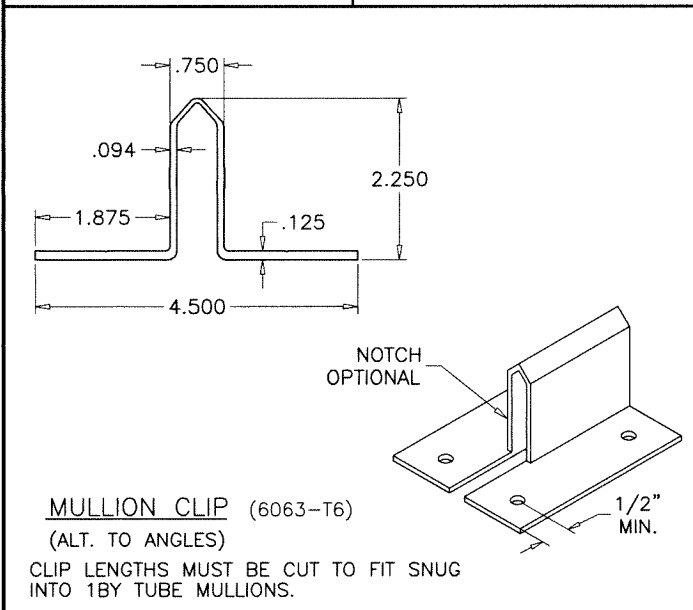
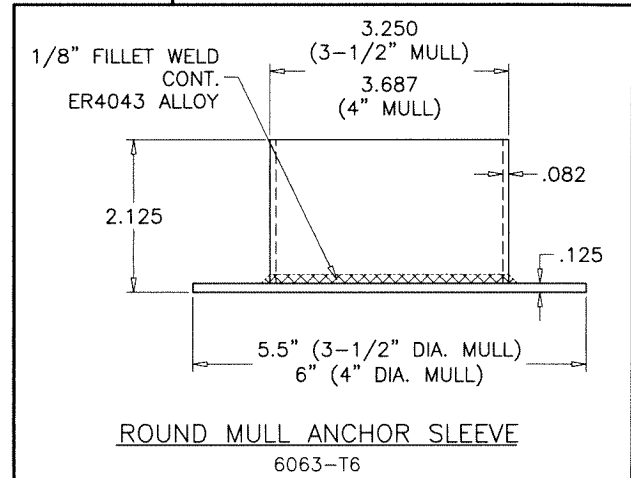
EXTRUDED ALUMINUM TUBE MULLIONS

Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:		no		date		by		description	
		A		08.27.20				UPDATED TO 2020 FBC	
		B		07.21.23				UPDATED TO 2023 FBC	
		C		09.01.26				UPDATED TO 2026 FBC	



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MULLION 19-119F-SWM

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revisions:		date		by description	
no	date	no	date	no	date

date: 11-12-19

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

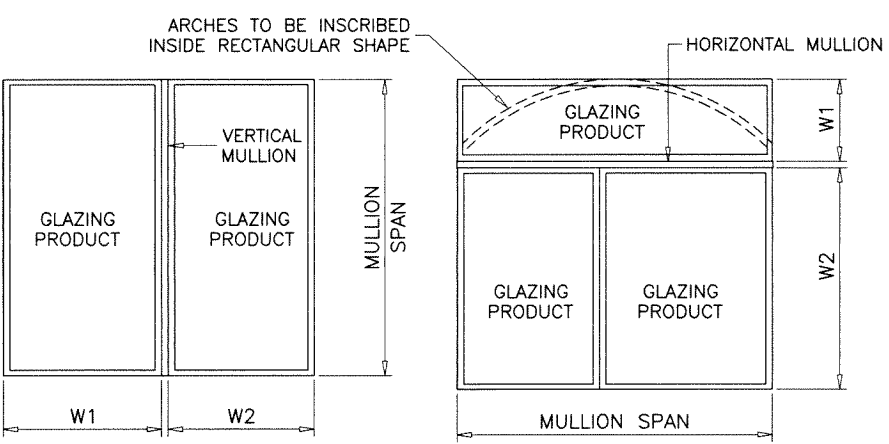
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19-119F

sheet 2 of 16

DESIGN LOAD CAPACITY – PSF (TUBE MULLIONS)								
WINDOW DIMS.		1 X 2	1 X 3	1 X 4	1 X 4	2 X 4	2 X 6	2 X 6
WIDTH (W)	MULL SPAN	STD. CUSTOM	STD. CUSTOM	STD. CUSTOM	HEAVY	STD.	STD.	HEAVY
19–1/8"	38–3/8"	140.0	140.0	140.0	140.0	140.0	140.0	140.0
26–1/2"		137.4	140.0	140.0	140.0	140.0	140.0	140.0
30"		121.4	140.0	140.0	140.0	140.0	140.0	140.0
37"		98.4	140.0	140.0	140.0	140.0	140.0	140.0
42"		86.7	140.0	140.0	140.0	140.0	140.0	140.0
48"		75.9	140.0	140.0	140.0	140.0	140.0	140.0
54"		67.4	127.8	140.0	140.0	140.0	140.0	140.0
60"		60.7	115.0	140.0	140.0	140.0	140.0	140.0
66"	50–5/8"	55.2	104.5	140.0	140.0	140.0	140.0	140.0
72"		50.6	95.8	140.0	140.0	140.0	140.0	140.0
19–1/8"		83.0	140.0	140.0	140.0	140.0	140.0	140.0
26–1/2"		59.9	140.0	140.0	140.0	140.0	140.0	140.0
30"		52.9	130.4	140.0	140.0	140.0	140.0	140.0
37"		42.9	105.7	140.0	140.0	140.0	140.0	140.0
42"		37.8	93.1	140.0	140.0	140.0	140.0	140.0
48"		33.1	81.5	128.6	140.0	140.0	140.0	140.0
54"		29.4	72.4	114.3	140.0	140.0	140.0	140.0
60"	63"	26.4	65.2	102.9	140.0	140.0	140.0	140.0
66"		24.0	59.3	93.5	140.0	139.8	140.0	140.0
72"		22.0	54.3	85.7	140.0	128.2	140.0	140.0
19–1/8"		43.0	123.3	140.0	140.0	140.0	140.0	140.0
26–1/2"		31.1	89.0	140.0	140.0	140.0	140.0	140.0
30"		27.4	78.6	130.9	140.0	140.0	140.0	140.0
37"		22.2	63.7	106.2	140.0	140.0	140.0	140.0
42"		–	56.1	93.5	140.0	140.0	140.0	140.0
48"		–	49.1	81.8	138.5	122.7	140.0	140.0
54"	74–1/4"	–	43.7	72.7	123.1	109.1	140.0	140.0
60"		–	39.3	65.5	110.8	98.2	140.0	140.0
66"		–	35.7	59.5	100.7	89.2	140.0	140.0
72"		–	32.8	54.6	92.3	81.8	140.0	140.0
19–1/8"		26.3	75.3	140.0	140.0	140.0	140.0	140.0
26–1/2"		–	54.4	105.4	140.0	140.0	140.0	140.0
30"		–	48.0	93.1	140.0	140.0	140.0	140.0
37"		–	38.9	75.5	127.5	113.5	140.0	140.0
42"	76"	–	34.3	66.5	112.3	100.0	140.0	140.0
48"		–	30.0	58.2	98.2	87.5	140.0	140.0
54"		–	26.7	51.7	87.3	77.8	139.9	140.0
60"		–	24.0	46.6	78.6	70.0	125.9	140.0
66"		–	21.8	42.3	71.5	63.6	114.5	140.0
72"		–	20.0	38.8	65.5	58.3	105.0	140.0
19–1/8"		24.5	70.2	139.2	140.0	140.0	140.0	140.0
26–1/2"		–	50.7	100.5	140.0	140.0	140.0	140.0
30"	84"	–	44.8	88.7	140.0	133.4	140.0	140.0
37"		–	36.3	71.9	121.4	108.2	140.0	140.0
42"		–	32.0	63.4	106.9	95.3	140.0	140.0
48"		–	28.0	55.5	93.6	83.4	140.0	140.0
54"		–	24.9	49.3	83.2	74.1	133.3	140.0
60"		–	22.4	44.4	74.9	66.7	120.0	140.0
66"		–	20.4	40.3	68.0	60.7	109.1	140.0
72"		–	–	37.0	62.4	55.6	100.0	140.0

ALL LOADS ARE EXT.(+)/INT.(–).

DESIGN LOAD CAPACITY – PSF (TUBE MULLIONS)								
WINDOW DIMS.		1 X 2	1 X 3	1 X 4	1 X 4	2 X 4	2 X 6	2 X 6
WIDTH (W)	MULL SPAN	STD. CUSTOM	STD. CUSTOM	STD. CUSTOM	HEAVY	STD.	STD.	HEAVY
19–1/8"	84"	–	52.0	111.5	140.0	140.0	140.0	140.0
26–1/2"		–	37.5	80.5	137.4	117.6	140.0	140.0
30"		–	33.2	71.1	121.3	103.9	140.0	140.0
37"		–	26.9	57.7	98.4	84.2	140.0	140.0
42"		–	23.7	50.8	86.7	74.2	139.2	140.0
48"		–	20.7	44.4	75.8	64.9	121.8	140.0
54"		–	–	39.5	67.4	57.7	108.3	140.0
60"		–	–	35.6	60.7	51.9	97.4	140.0
66"	96"	–	–	32.3	55.2	47.2	88.6	140.0
72"		–	–	29.6	50.6	43.3	81.2	140.0
19–1/8"		–	34.8	74.7	130.1	109.1	140.0	140.0
26–1/2"		–	25.1	53.9	93.9	78.8	140.0	140.0
30"		–	22.2	47.6	82.9	69.6	140.0	140.0
37"		–	–	38.6	67.2	56.4	119.6	140.0
42"		–	–	34.0	59.2	49.7	105.3	140.0
48"		–	–	29.8	51.8	43.5	92.2	140.0
54"	108"	–	–	26.5	46.1	38.7	81.9	140.0
60"		–	–	23.8	41.5	34.8	73.7	130.9
66"		–	–	21.7	37.7	31.6	67.0	119.0
72"		–	–	–	34.6	29.0	61.4	109.1
19–1/8"		–	24.5	52.5	91.4	76.7	140.0	140.0
26–1/2"		–	–	37.9	65.9	55.3	130.5	140.0
30"		–	–	33.5	58.2	48.9	115.2	140.0
37"		–	–	27.1	47.2	39.6	93.4	140.0
42"	120"	–	–	23.9	41.6	34.9	82.3	140.0
48"		–	–	20.9	36.4	30.5	72.0	127.6
54"		–	–	–	32.4	27.1	64.0	113.4
60"		–	–	–	29.1	24.4	57.6	102.1
66"		–	–	–	26.5	22.2	52.4	92.8
72"		–	–	–	24.3	20.4	48.0	85.0
19–1/8"		–	–	38.3	66.6	55.9	140.0	140.0
26–1/2"		–	–	27.6	48.1	40.3	104.6	140.0
30"	132"	–	–	24.4	42.5	35.6	92.4	140.0
37"		–	–	–	34.4	28.9	74.9	132.3
42"		–	–	–	30.3	25.4	66.0	116.6
48"		–	–	–	26.5	22.3	57.7	102.0
54"		–	–	–	23.6	–	51.3	90.7
60"		–	–	–	21.2	–	46.2	81.6
66"		–	–	–	–	–	42.0	74.2
72"		–	–	–	–	–	38.5	68.0
19–1/8"	144"	–	–	28.7	50.0	42.0	116.7	140.0
26–1/2"		–	–	20.7	36.1	30.3	84.3	140.0
30"		–	–	–	31.9	26.8	74.4	133.2
37"		–	–	–	25.9	21.7	60.3	108.0
42"		–	–	–	22.8	–	53.2	95.1
48"		–	–	–	–	–	46.5	83.3
54"		–	–	–	–	–	41.3	74.0
60"		–	–	–	–	–	37.2	66.6
66"	144"	–	–	–	–	–	33.8	60.5
72"		–	–	–	–	–	31.0	55.5
19–1/8"		–	–	22.1	38.5	32.3	89.9	140.0
26–1/2"		–	–	–	27.8	23.3	64.9	119.2
30"		–	–	–	24.6	20.6	57.3	105.3
37"		–	–	–	19.9	–	46.5	85.4
42"		–	–	–	–	–	40.9	75.2
48"		–	–	–	–	–	35.8	65.8
54"		–	–	–	–	–	31.8	58.5



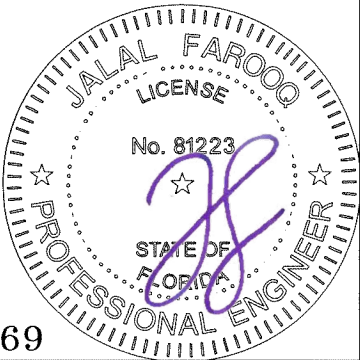
TYPICAL MULLION ARRANGEMENTS

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

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

Sealed: 9/1/2026

FL #31169



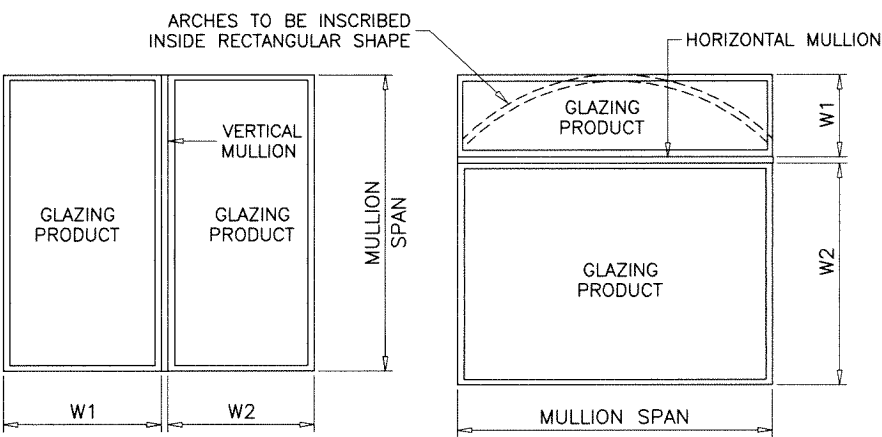
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revisions:
no date by description
11-12-19
scale: –
dr. by: TARIQ
chk. by:
drawing no.
19-119F
sheet 3 of 16

DESIGN LOAD CAPACITY - PSF (ROUND MULLIONS)			
WINDOW DIMS.		3-1/2"	4"
WIDTH (W)	MULL SPAN	DIA.	DIA.
19-1/8"	38-3/8"	140.0	140.0
26-1/2"		140.0	140.0
30"		140.0	140.0
37"		140.0	140.0
42"		140.0	140.0
48"		140.0	140.0
54"		140.0	140.0
60"		137.8	140.0
66"	50-5/8"	125.2	140.0
72"		114.8	140.0
19-1/8"		140.0	140.0
26-1/2"		140.0	140.0
30"		140.0	140.0
37"		127.3	140.0
42"		112.2	140.0
48"		98.2	140.0
54"		87.3	140.0
60"		78.5	140.0
66"		71.4	137.6
72"		65.4	126.1
19-1/8"	63"	140.0	140.0
26-1/2"		114.0	140.0
30"		100.7	140.0
37"		81.6	140.0
42"		71.9	138.4
48"		62.9	121.1
54"		55.9	107.7
60"		50.3	96.9
66"	74-1/4"	45.8	88.1
72"		42.0	80.8
19-1/8"		102.0	140.0
26-1/2"		73.6	140.0
30"		65.0	138.6
37"		52.7	112.3
42"		46.4	99.0
48"		40.6	86.6
54"	76"	36.1	77.0
60"		32.5	69.3
66"		29.6	63.0
72"		27.1	57.7
19-1/8"		95.1	140.0
26-1/2"		68.6	140.0
30"		60.6	132.1
37"		49.2	107.1
42"		43.3	94.4
48"		37.9	82.6
54"		33.7	73.4
60"		30.3	66.1
66"		27.6	60.1
72"		25.3	55.0



TYPICAL MULLION ARRANGEMENTS

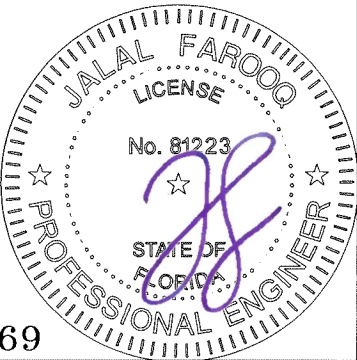
WIDTH (W) = $\frac{W1 + W2}{2}$

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

ALL LOADS ARE EXT.(+)/INT.(−).

Sealed: 9/1/2026

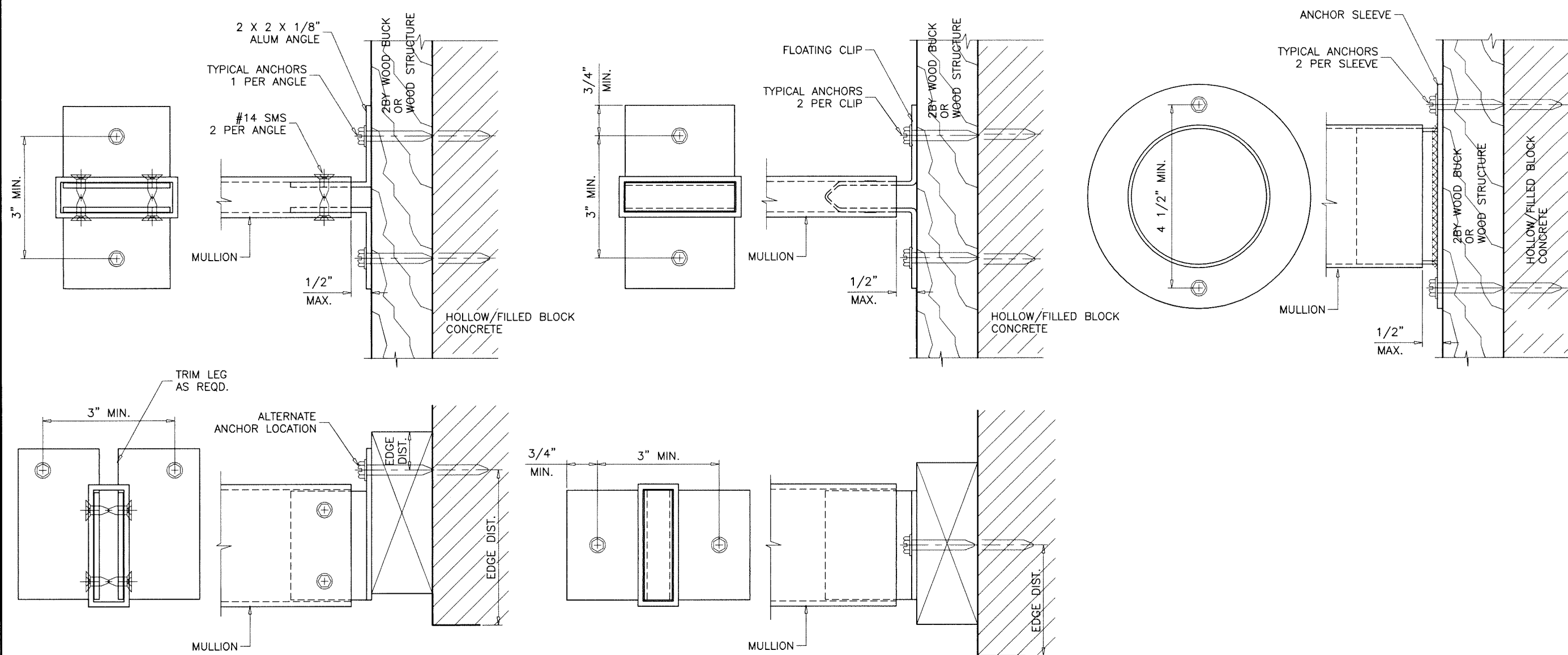
FL #31169



afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION 19-119F-SWM

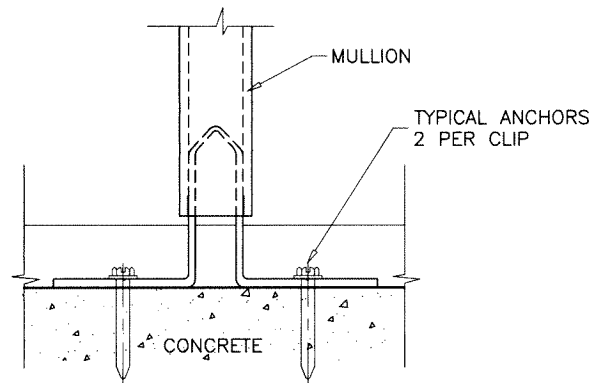
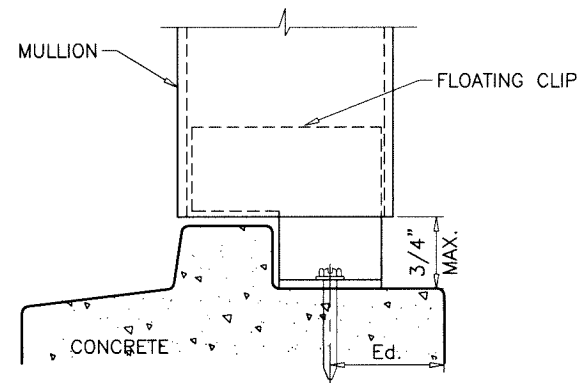
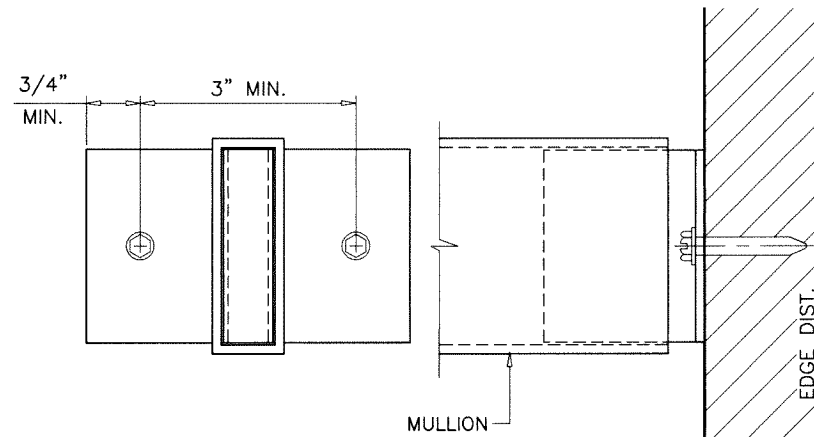
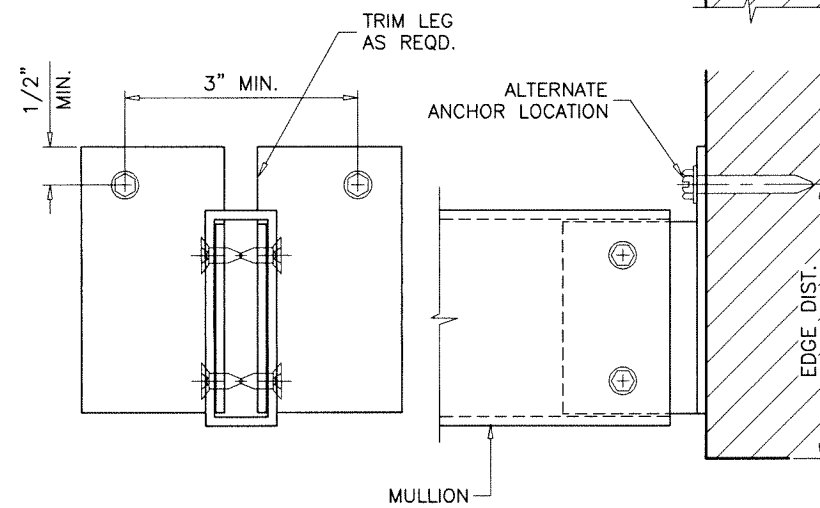
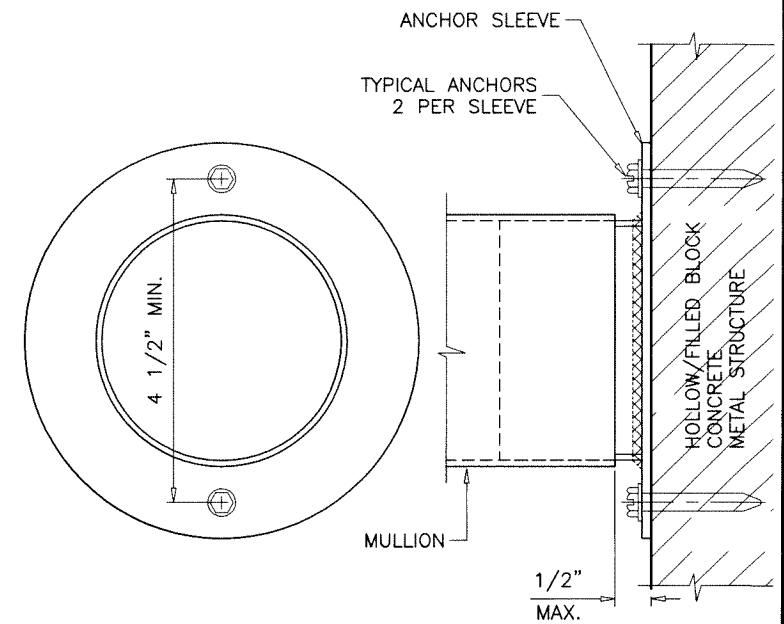
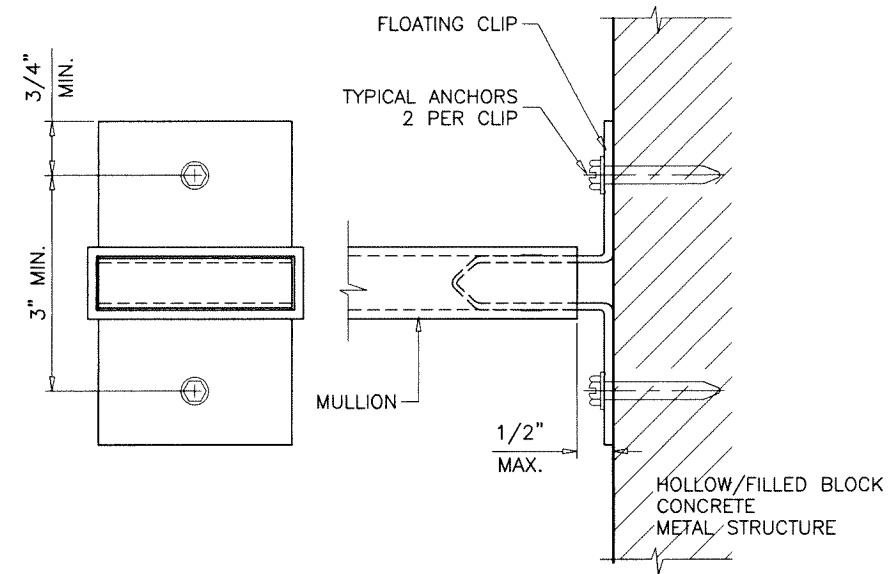
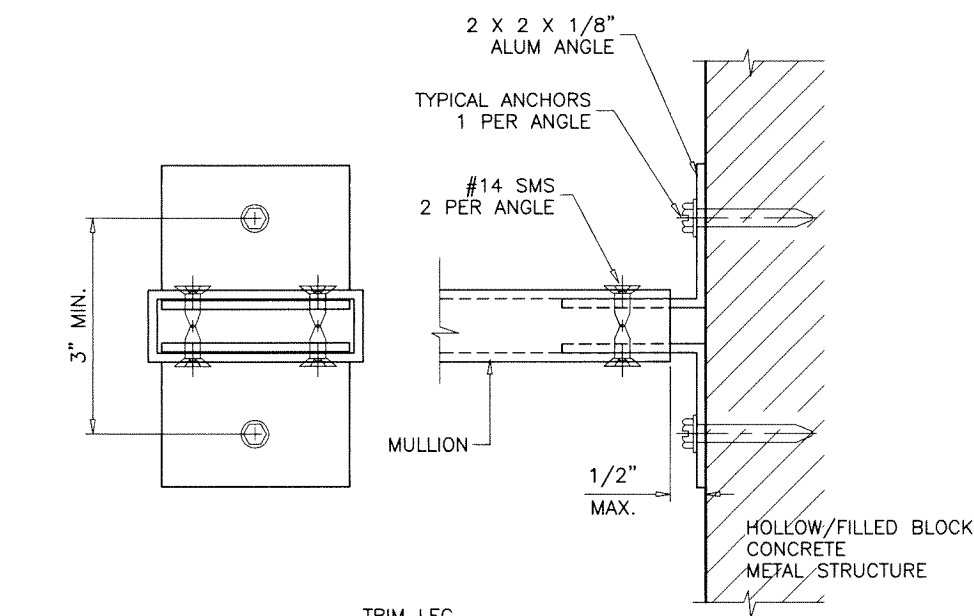
EXTRUDED ALUMINUM TUBE MULLIONS
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:
no date by description
11-12-19
scale: -
dr. by: TARIQ
chk. by:
drawing no.
19-119F
sheet 4 of 16



Sealed: 9/1/2026

TYPICAL ANCHORS TYPE 'W2'



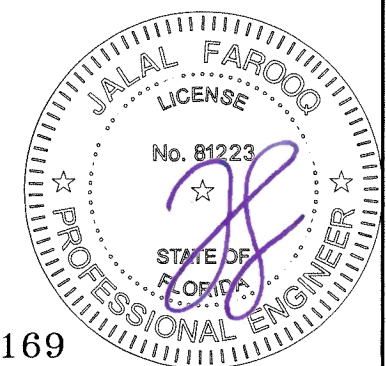
TYPICAL ANCHORS TYPE 'B2', 'C2', 'M2'

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

SEE SHEET 7 FOR ANCHOR CAPACITIES

Sealed: 9/1/2026

FL #31169



EXTRUDED ALUMINUM TUBE MULLIONS

Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:		no		date		by		description	

date: 11-12-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
19-119F
sheet 6 of 16

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION 19-119F-SWM

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2	B2	C2	M2
19-1/8"	38-3/8"	140.0	117.7	140.0	140.0
26-1/2"		140.0	85.0	140.0	140.0
30"		132.1	75.0	139.4	140.0
37"		107.1	60.9	113.0	140.0
42"		94.3	53.6	99.6	139.7
48"		82.6	46.9	87.1	122.3
54"		73.4	41.7	77.4	108.7
60"		66.0	37.5	69.7	97.8
66"		60.0	34.1	63.4	88.9
72"		55.0	31.3	58.1	81.4
19-1/8"	50-5/8"	140.0	89.2	140.0	140.0
26-1/2"		113.3	64.4	119.6	140.0
30"		100.1	56.9	105.7	140.0
37"		81.2	46.1	85.7	120.2
42"		71.5	40.6	75.5	105.9
48"		62.6	35.6	66.0	92.7
54"		55.6	31.6	58.7	82.4
60"		50.1	28.4	52.8	74.1
66"		45.5	25.9	48.0	67.4
72"		41.7	23.7	44.0	61.8
19-1/8"	63"	126.2	71.7	133.2	140.0
26-1/2"		91.1	51.8	96.1	134.9
30"		80.5	45.7	84.9	119.2
37"		65.2	37.1	68.8	96.6
42"		57.5	32.7	60.6	85.1
48"		50.3	28.6	53.1	74.5
54"		44.7	25.4	47.2	66.2
60"		40.2	22.9	42.4	59.6
66"		36.6	20.8	38.6	54.2
72"		33.5	-	35.4	49.7
19-1/8"	74-1/4"	107.1	60.8	113.0	140.0
26-1/2"		77.3	43.9	81.5	114.5
30"		68.3	38.8	72.0	101.1
37"		55.4	31.4	58.4	82.0
42"		48.8	27.7	51.5	72.2
48"		42.7	24.2	45.0	63.2
54"		37.9	21.5	40.0	56.2
60"		34.1	-	36.0	50.6
66"		31.0	-	32.7	46.0
72"		28.4	-	30.0	42.1

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2	B2	C2	M2
19-1/8"	76"	104.6	59.4	110.4	140.0
26-1/2"		75.5	42.9	79.7	111.8
30"		66.7	37.9	70.4	98.8
37"		54.1	30.7	57.1	80.1
42"		47.6	27.1	50.3	70.6
48"		41.7	23.7	44.0	61.7
54"		37.1	21.1	39.1	54.9
60"		33.3	-	35.2	49.4
66"		30.3	-	32.0	44.9
72"		27.8	-	29.3	41.2
19-1/8"	84"	94.7	53.8	99.9	140.0
26-1/2"		68.3	38.8	72.1	101.2
30"		60.3	34.3	63.7	89.4
37"		48.9	27.8	51.6	72.5
42"		43.1	24.5	45.5	63.8
48"		37.7	21.4	39.8	55.9
54"		33.5	-	35.4	49.7
60"		30.2	-	31.8	44.7
66"		27.4	-	28.9	40.6
72"		25.1	-	26.5	37.2
19-1/8"	96"	82.8	47.1	87.4	122.7
26-1/2"		59.8	34.0	63.1	88.5
30"		52.8	30.0	55.7	78.2
37"		42.8	24.3	45.2	63.4
42"		37.7	21.4	39.8	55.9
48"		33.0	-	34.8	48.9
54"		29.3	-	31.0	43.4
60"		26.4	-	27.9	39.1
66"		24.0	-	25.3	35.5
72"		22.0	-	23.2	32.6
19-1/8"	108"	73.6	41.8	77.7	109.0
26-1/2"		53.1	30.2	56.1	78.7
30"		46.9	26.7	49.5	69.5
37"		38.1	21.6	40.2	56.4
42"		33.5	-	35.4	49.7
48"		29.3	-	31.0	43.4
54"		26.1	-	27.5	38.6
60"		23.5	-	24.8	34.8
66"		21.3	-	22.5	31.6
72"		-	-	20.6	29.0

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W2	B2	C2	M2
19-1/8"	120"	66.3	37.6	69.9	98.1
26-1/2"		47.8	27.2	50.5	70.8
30"		42.2	24.0	44.6	62.6
37"		34.2	-	36.1	50.7
42"		30.2	-	31.8	44.7
48"		26.4	-	27.9	39.1
54"		23.5	-	24.8	34.8
60"		21.1	-	22.3	31.3
66"		-	-	20.3	28.4
72"		-	-	-	26.1
19-1/8"	132"	60.2	34.2	63.6	89.2
26-1/2"		43.5	24.7	45.9	64.4
30"		38.4	21.8	40.5	56.9
37"		31.1	-	32.9	46.1
42"		27.4	-	28.9	40.6
48"		24.0	-	25.3	35.5
54"		21.3	-	22.5	31.6
60"		-	-	20.3	28.4
66"		-	-	-	25.9
72"		-	-	-	23.7
19-1/8"	144"	55.2	31.4	58.3	81.8
26-1/2"		39.8	22.6	42.0	59.0
30"		35.2	20.0	37.1	52.1
37"		28.5	-	30.1	42.3
42"		25.1	-	26.5	37.2
48"		22.0	-	23.2	32.5
54"		-	-	20.6	29.0

TYPICAL ANCHORS:

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

- W2: INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
- W2: THRU 1BY BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE
- B2: THRU 1BY BUCKS INTO BLOCKS OR DIRECTLY INTO BLOCKS
1-1/4" MIN. EMBED INTO BLOCKS
- C2: DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

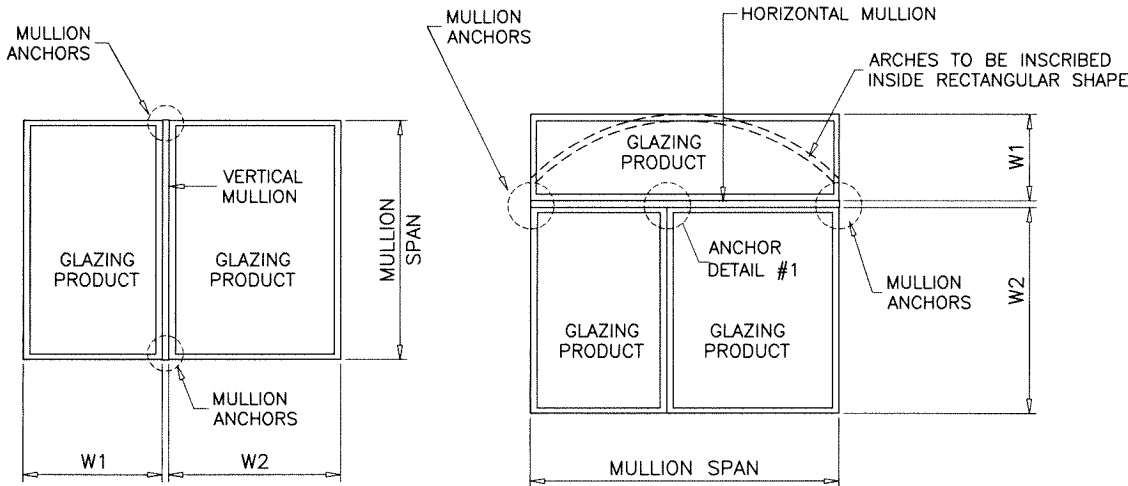
1/4" DIA. TEKS OR SELF DRILLING SCREWS

- M2: 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.



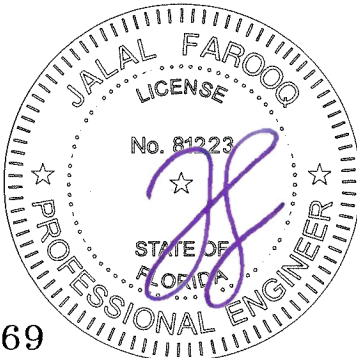
TYPICAL MULLION ARRANGEMENTS

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

NOTE:
ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER LOCATIONS
AT HEAD, SILL OR JAMB ENDS.
SEE SHEETS 5 & 6 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

Sealed: 9/1/2026



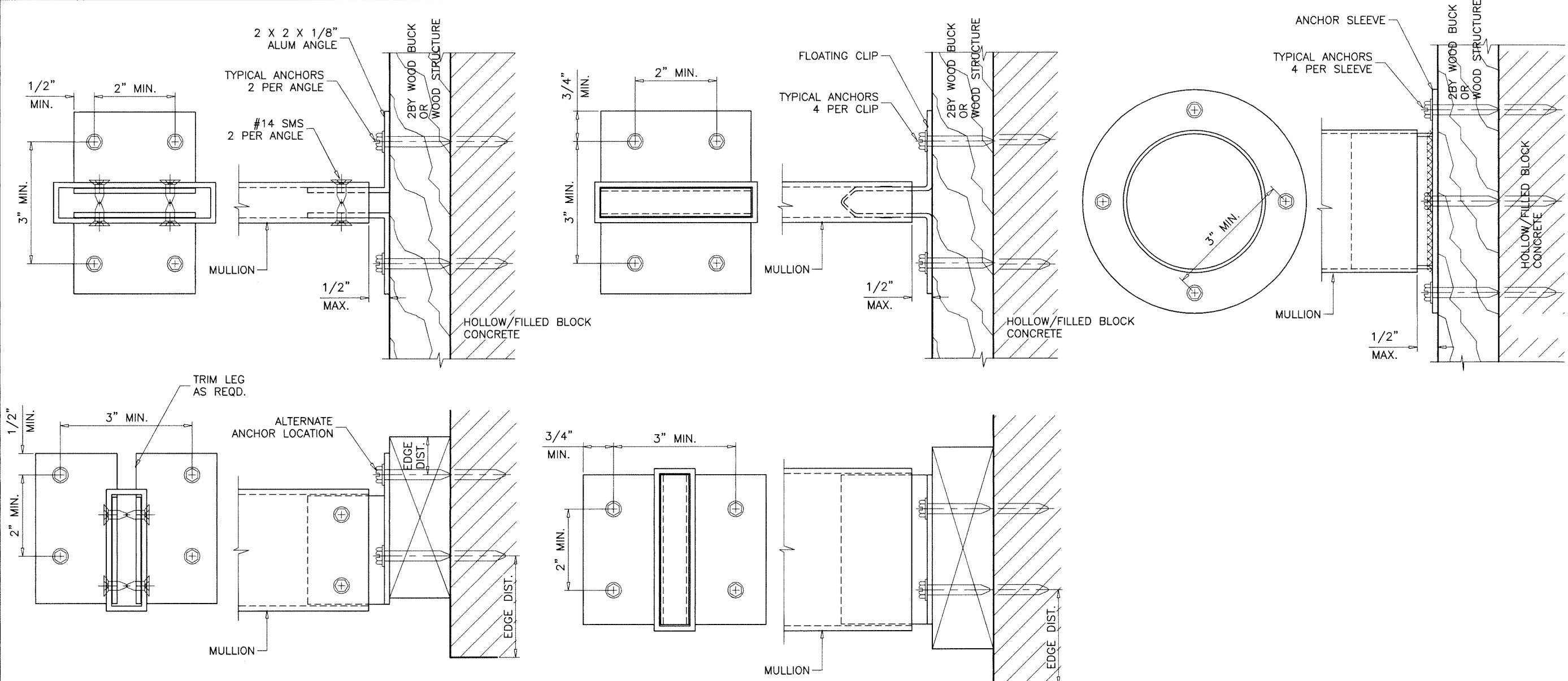
FL #31169

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION\19-119F-SWM

EXTRUDED ALUMINUM TUBE MULLIONS

Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

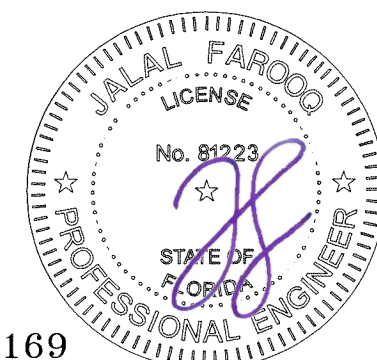
revisions:	no	date	by	description
date:	11-12-19	scale:	-	
dr. by:	TARIQ	chk. by:		
drawing no.	19-119F	sheet	7 of 16	



TYPICAL ANCHORS TYPE 'W4-2'

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

SEE SHEET 10 FOR ANCHOR CAPACITIES



Sealed: 9/1/2026

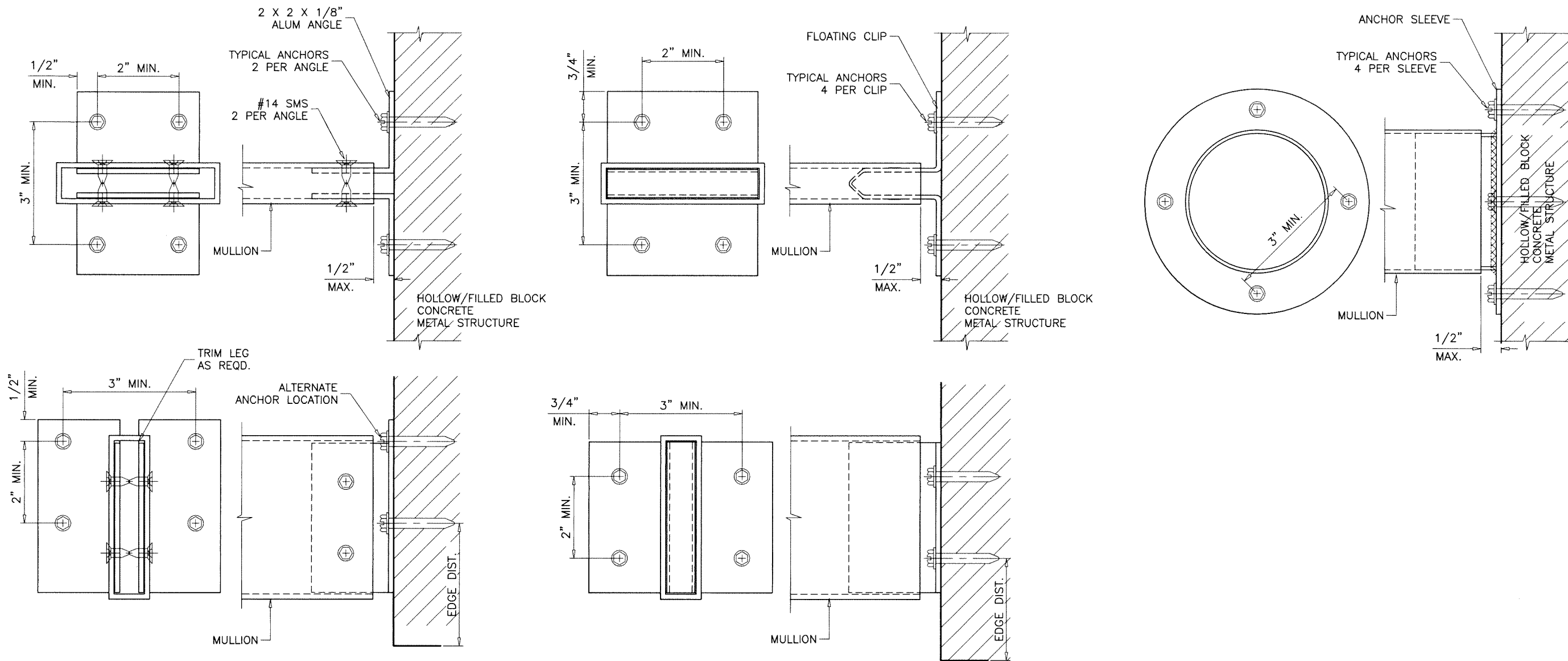
FL #31169

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 MULLION\19-119F-SWM

EXTRUDED ALUMINUM TUBE MULLIONS
Sunshine Windows Manufacturing, Inc.
 1785 West 33rd Place
 Hialeah, FL. 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:		no		date		by		description	

date: 11-12-19
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:
 drawing no.
19-119F
 sheet 8 of 16

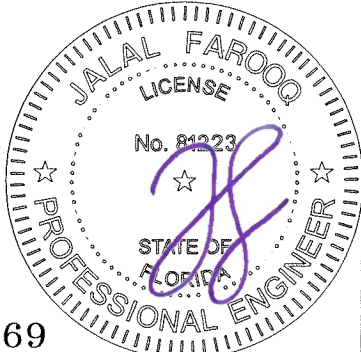


TYPICAL ANCHORS TYPE 'B4-2', 'C4-2', 'M4-2'

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

SEE SHEET 10 FOR ANCHOR CAPACITIES

Sealed: 9/1/2026



FL #31169

af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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MULLION\19-119F-SWM

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Hialeah, FL 33012
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revisions:

no	date	by description

date: 11-12-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
19-119F
sheet 9 of 16

DESIGN LOAD CAPACITY – PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W4-2	B4-2	C4-2	M4-2
19-1/8"	38-3/8"	140.0	140.0	140.0	140.0
26-1/2"		140.0	132.2	140.0	140.0
30"		140.0	116.7	140.0	140.0
37"		140.0	94.7	140.0	140.0
42"		140.0	83.4	140.0	140.0
48"		140.0	73.0	140.0	140.0
54"		140.0	64.9	135.0	140.0
60"		132.1	58.4	121.5	140.0
66"	50-5/8"	120.1	53.1	110.5	140.0
72"		110.1	48.6	101.3	140.0
19-1/8"		140.0	138.8	140.0	140.0
26-1/2"		140.0	100.2	140.0	140.0
30"		140.0	88.5	140.0	140.0
37"		140.0	71.8	140.0	140.0
42"		140.0	63.2	131.6	140.0
48"		125.2	55.3	115.1	140.0
54"	63"	111.2	49.2	102.3	140.0
60"		100.1	44.2	92.1	140.0
66"		91.0	40.2	83.7	134.8
72"		83.4	36.9	76.8	123.4
19-1/8"		140.0	111.6	140.0	140.0
26-1/2"		140.0	80.5	140.0	140.0
30"		140.0	71.1	140.0	140.0
37"		130.5	57.7	120.0	140.0
42"	74-1/4"	114.9	50.8	105.7	140.0
48"		100.6	44.4	92.5	140.0
54"		89.4	39.5	82.2	132.4
60"		80.5	35.6	74.0	119.2
66"		73.1	32.3	67.3	108.3
72"		67.0	29.6	61.7	99.3
19-1/8"		140.0	94.6	140.0	140.0
26-1/2"		140.0	68.3	140.0	140.0
30"	76"	136.5	60.3	125.6	140.0
37"		110.7	48.9	101.8	140.0
42"		97.5	43.1	89.7	140.0
48"		85.3	37.7	78.5	126.4
54"		75.9	33.5	69.8	112.3
60"		68.3	30.2	62.8	101.1
66"		62.1	27.4	57.1	91.9
72"		56.9	25.1	52.3	84.3

DESIGN LOAD CAPACITY – PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W4-2	B4-2	C4-2	M4-2
19-1/8"	76"	140.0	92.5	140.0	140.0
26-1/2"		140.0	66.7	138.9	140.0
30"		133.4	58.9	122.7	140.0
37"		108.2	47.8	99.5	140.0
42"		95.3	42.1	87.6	140.0
48"		83.4	36.8	76.7	123.5
54"		74.1	32.7	68.2	109.8
60"		66.7	29.5	61.4	98.8
66"	84"	60.6	26.8	55.8	89.8
72"		55.6	24.6	51.1	82.3
19-1/8"		140.0	83.7	140.0	140.0
26-1/2"		136.6	60.4	125.7	140.0
30"		120.7	53.3	111.0	140.0
37"		97.9	43.2	90.0	140.0
42"		86.2	38.1	79.3	127.7
48"		75.4	33.3	69.4	111.7
54"	96"	67.0	29.6	61.7	99.3
60"		60.3	26.7	55.5	89.4
66"		54.9	24.2	50.5	81.2
72"		50.3	22.2	46.3	74.5
19-1/8"		140.0	73.2	140.0	140.0
26-1/2"		119.5	52.8	110.0	140.0
30"		105.6	46.7	97.1	140.0
37"		85.6	37.8	78.8	126.8
42"	108"	75.4	33.3	69.4	111.7
48"		66.0	29.2	60.7	97.8
54"		58.7	25.9	54.0	86.9
60"		52.8	23.3	48.6	78.2
66"		48.0	21.2	44.2	71.1
72"		44.0	–	40.5	65.2
19-1/8"		140.0	65.1	135.5	140.0
26-1/2"		106.3	47.0	97.8	140.0
30"	120"	93.9	41.5	86.4	139.0
37"		76.1	33.6	70.0	112.7
42"		67.0	29.6	61.7	99.3
48"		58.7	25.9	54.0	86.9
54"		52.1	23.0	48.0	77.2
60"		46.9	20.7	43.2	69.5
66"		42.7	–	39.3	63.2
72"		39.1	–	36.0	57.9

DESIGN LOAD CAPACITY – PSF					
WINDOW DIMS.		ANCHORS TYPE			
WIDTH (W)	MULL SPAN	W4-2	B4-2	C4-2	M4-2
19-1/8"	120"	132.5	58.6	121.9	140.0
26-1/2"		95.6	42.3	88.0	140.0
30"		84.5	37.3	77.7	125.1
37"		68.5	30.3	63.0	101.4
42"		60.3	26.7	55.5	89.4
48"		52.8	23.3	48.6	78.2
54"		46.9	20.7	43.2	69.5
60"		42.2	–	38.9	62.6
66"	132"	38.4	–	35.3	56.9
72"		35.2	–	32.4	52.1
19-1/8"		120.5	53.2	110.8	140.0
26-1/2"		86.9	38.4	80.0	128.8
30"		76.8	33.9	70.7	113.7
37"		62.3	27.5	57.3	92.2
42"		54.9	24.2	50.5	81.2
48"		48.0	21.2	44.2	71.1
54"	144"	42.7	–	39.3	63.2
60"		38.4	–	35.3	56.9
66"		34.9	–	32.1	51.7
72"		32.0	–	29.4	47.4
19-1/8"		110.4	48.8	101.6	140.0
26-1/2"		79.7	35.2	73.3	118.0
30"		70.4	31.1	64.8	104.3
37"		57.1	25.2	52.5	84.5
42"		50.3	22.2	46.3	74.5
48"		44.0	–	40.5	65.2
54"		39.1	–	36.0	57.9

TYPICAL ANCHORS:

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

W4-2: INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

W4-2: THRU 1BY BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

B4-2: THRU 1BY BUCKS INTO BLOCKS OR DIRECTLY INTO BLOCKS
1-1/4" MIN. EMBED INTO BLOCK

C4-2: DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

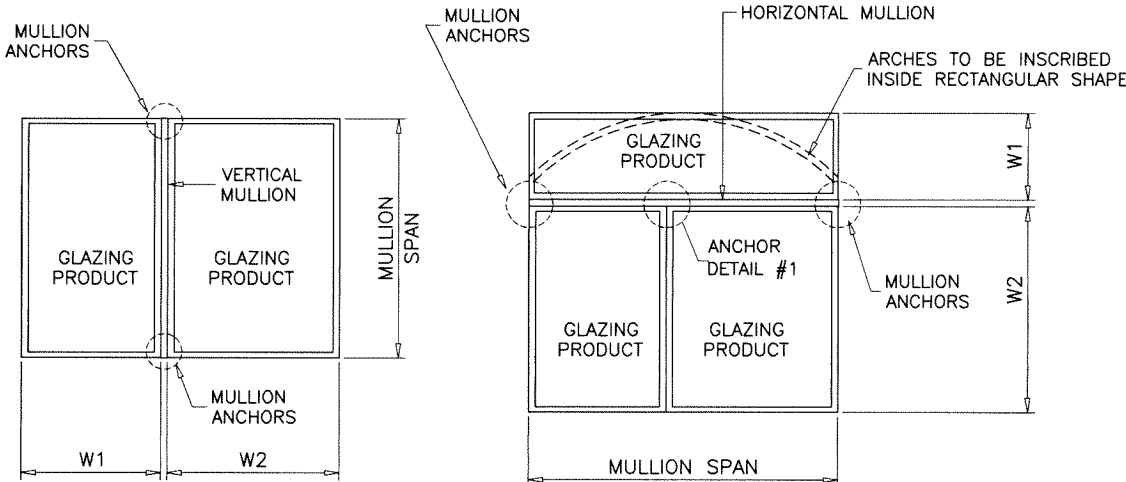
M4-2: INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

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

ANCHORS CL TO CL DISTANCE = 2" 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.



TYPICAL MULLION ARRANGEMENTS

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

ALL LOADS ARE EXT.(+)/INT.(–).

NOTE:
ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER LOCATIONS
AT HEAD, SILL OR JAMB ENDS.
SEE SHEETS 8 & 9 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

Sealed: 9/1/2026

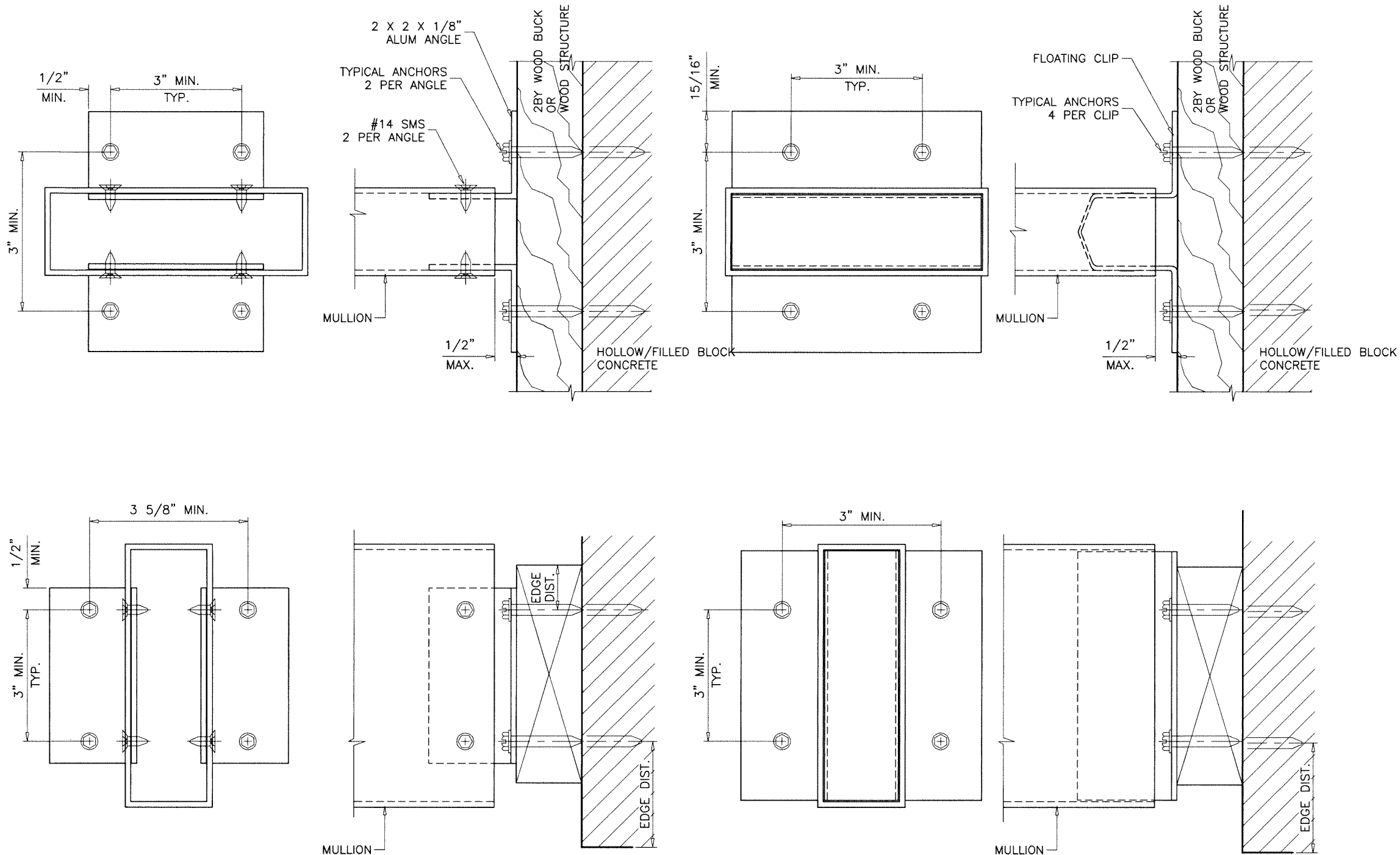


FL #31169

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 262-6978 FAX. (305) 262-6978
MULLION\19-119F-SWM

EXTRUDED ALUMINUM TUBE MULLIONS
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:		no date by description	
date:	11-12-19	scale:	–
dr. by:	TARQ	chk. by:	
drawing no.	19-119F	sheet	10 of 16



TYPICAL ANCHORS TYPE 'W4-3'
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 THRU 1BY BUCKS INTO CONC. OR MASONRY
 SEE SHEET 13 FOR ANCHOR CAPACITIES

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FL #31169

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978

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MULLION 19-119F-SWM

EXTRUDED ALUMINUM TUBE MULLIONS

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 1785 West 33rd Place
 Hialeah, FL 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:

no	date	by description

date: 11-12-19
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
19-119F
 sheet 11 of 16

DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		ANCHORS TYPE		
WIDTH (W)	MULL SPAN	W4-3	B4-3	C4-3
19-1/8"	38-3/8"	140.0	140.0	140.0
26-1/2"		140.0	140.0	140.0
30"		140.0	140.0	140.0
37"		140.0	121.7	140.0
42"		140.0	107.2	140.0
48"		140.0	93.8	140.0
54"		140.0	83.4	140.0
60"		132.1	75.0	139.4
66"	50-5/8"	120.1	68.2	126.7
72"		110.1	62.5	116.1
19-1/8"		140.0	140.0	140.0
26-1/2"		140.0	128.8	140.0
30"		140.0	113.8	140.0
37"		140.0	92.3	140.0
42"		140.0	81.3	140.0
48"		125.2	71.1	132.1
54"		111.2	63.2	117.4
60"		100.1	56.9	105.7
66"		91.0	51.7	96.0
72"		83.4	47.4	88.0
19-1/8"	63"	140.0	140.0	140.0
26-1/2"		140.0	103.5	140.0
30"		140.0	91.4	140.0
37"		130.5	74.1	137.7
42"		114.9	65.3	121.3
48"		100.6	57.1	106.1
54"		89.4	50.8	94.3
60"		80.5	45.7	84.9
66"	74-1/4"	73.1	41.6	77.2
72"		67.0	38.1	70.7
19-1/8"		140.0	121.7	140.0
26-1/2"		140.0	87.8	140.0
30"		136.5	77.6	140.0
37"		110.7	62.9	116.8
42"		97.5	55.4	102.9
48"		85.3	48.5	90.0
54"	108"	75.9	43.1	80.0
60"		68.3	38.8	72.0
66"		62.1	35.3	65.5
72"		56.9	32.3	60.0

DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		ANCHORS TYPE		
WIDTH (W)	MULL SPAN	W4-3	B4-3	C4-3
19-1/8"	76"	140.0	118.9	140.0
26-1/2"		140.0	85.8	140.0
30"		133.4	75.8	140.0
37"		108.2	61.5	114.1
42"		95.3	54.1	100.5
48"		83.4	47.4	88.0
54"		74.1	42.1	78.2
60"		66.7	37.9	70.4
66"	84"	60.6	34.4	64.0
72"		55.6	31.6	58.6
19-1/8"		140.0	107.6	140.0
26-1/2"		136.6	77.6	140.0
30"		120.7	68.6	127.3
37"		97.9	55.6	103.3
42"		86.2	49.0	91.0
48"		75.4	42.9	79.6
54"	96"	67.0	38.1	70.7
60"		60.3	34.3	63.7
66"		54.9	31.2	57.9
72"		50.3	28.6	53.1
19-1/8"		140.0	94.1	140.0
26-1/2"		119.5	67.9	126.1
30"		105.6	60.0	111.4
37"		85.6	48.6	90.3
42"	108"	75.4	42.9	79.6
48"		66.0	37.5	69.6
54"		58.7	33.3	61.9
60"		52.8	30.0	55.7
66"		48.0	27.3	50.6
72"		44.0	25.0	46.4
19-1/8"		140.0	83.7	140.0
26-1/2"		106.3	60.4	112.1
30"	120"	93.9	53.3	99.0
37"		76.1	43.2	80.3
42"		67.0	38.1	70.7
48"		58.7	33.3	61.9
54"		52.1	29.6	55.0
60"		46.9	26.7	49.5
66"		42.7	24.2	45.0
72"		39.1	22.2	41.3

DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		ANCHORS TYPE		
WIDTH (W)	MULL SPAN	W4-3	B4-3	C4-3
19-1/8"	120"	132.5	75.3	139.8
26-1/2"		95.6	54.3	100.9
30"		84.5	48.0	89.1
37"		68.5	38.9	72.3
42"		60.3	34.3	63.7
48"		52.8	30.0	55.7
54"		46.9	26.7	49.5
60"		42.2	24.0	44.6
66"	132"	38.4	21.8	40.5
72"		35.2	20.0	37.1
19-1/8"		120.5	68.4	127.1
26-1/2"		86.9	49.4	91.7
30"		76.8	43.6	81.0
37"		62.3	35.4	65.7
42"		54.9	31.2	57.9
48"		48.0	27.3	50.6
54"	144"	42.7	24.2	45.0
60"		38.4	21.8	40.5
66"		34.9	-	36.8
72"		32.0	-	33.8
19-1/8"		110.4	62.7	116.5
26-1/2"		79.7	45.3	84.1
30"		70.4	40.0	74.3
37"		57.1	32.4	60.2
42"	156"	50.3	28.6	53.1
48"		44.0	25.0	46.4
54"		39.1	22.2	41.3

TYPICAL ANCHORS:

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

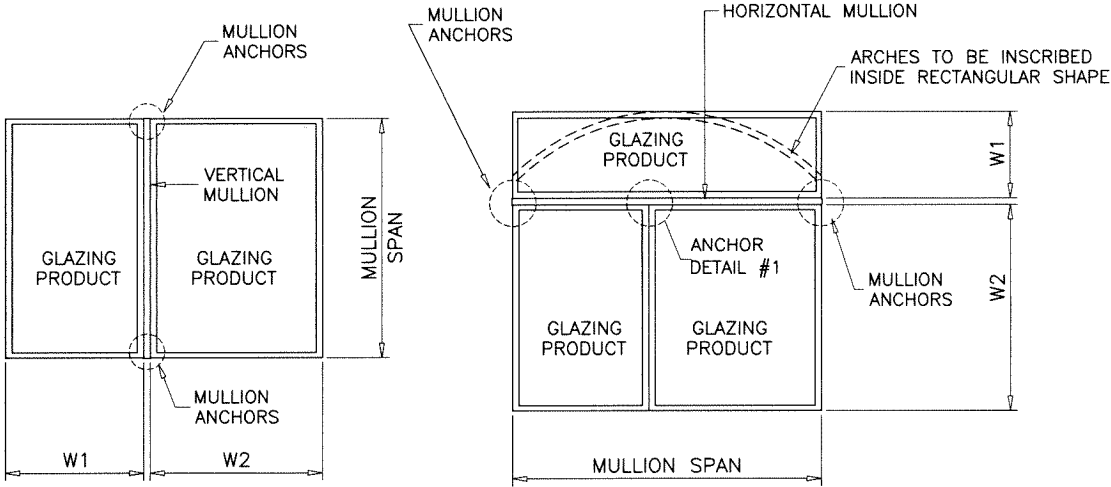
- W4-3: INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
- W4-3: THRU 1BY BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE
- B4-3: THRU 1BY BUCKS INTO BLOCKS OR DIRECTLY INTO BLOCKS
1-1/4" MIN. EMBED INTO BLOCK
- C4-3: DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

TYPICAL EDGE DISTANCE

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

ANCHORS CL TO CL DISTANCE = 3" 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.



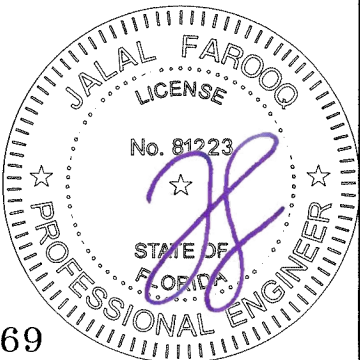
TYPICAL MULLION ARRANGEMENTS

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

ALL LOADS ARE EXT.(+)/INT.(−).

NOTE:
ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER LOCATIONS
AT HEAD, SILL OR JAMB ENDS.
SEE SHEETS 11 & 12 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)



Sealed: 9/1/2026

FL #31169

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION\19-119F-SWM

EXTRUDED ALUMINUM TUBE MULLIONS

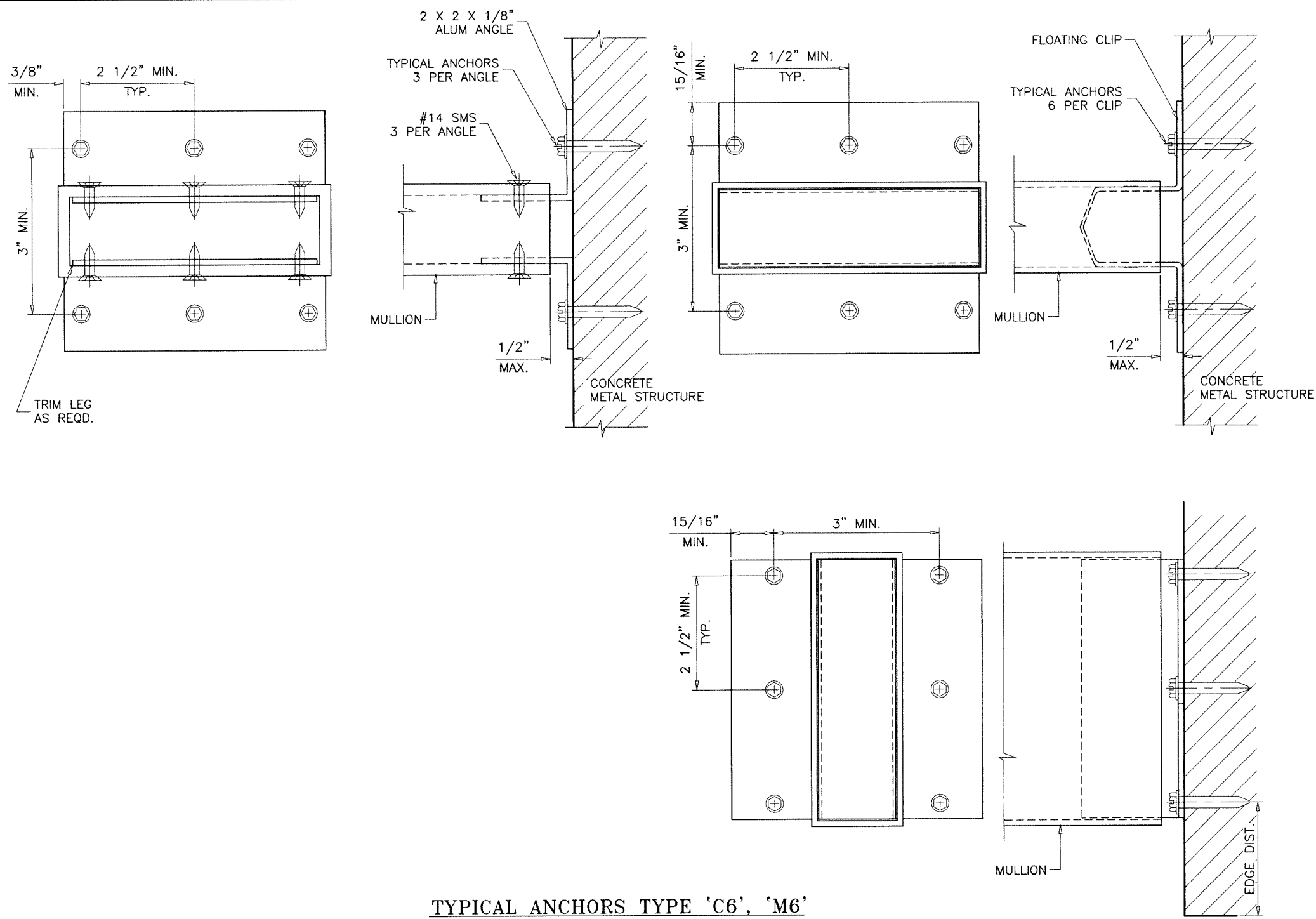
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:

no	date	by	description

date: 11-12-19
scale: -
dr. by: TARIQ
chk. by:

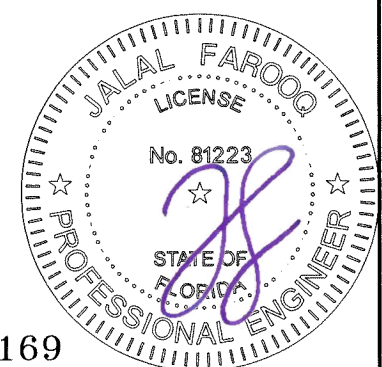
drawing no.
19-119F
sheet 13 of 16



TYPICAL ANCHORS TYPE 'C6', 'M6'

DIRECTLY INTO CONCRETE
INTO METAL STRUCTURES

SEE SHEET 15 FOR ANCHOR CAPACITIES



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FL #31169

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

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EXTRUDED ALUMINUM TUBE MULLIONS

Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:

no	date	by description

date: 11-12-19

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

19-119F

sheet 14 of 16

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	C6	M6	WIDTH (W)	MULL SPAN	C6	M6	WIDTH (W)	MULL SPAN	C6	M6
19-1/8"	38-3/8"	140.0	140.0	19-1/8"	76"	140.0	140.0	19-1/8"	120"	140.0	140.0
26-1/2"		140.0	140.0	26-1/2"		140.0	140.0	26-1/2"		140.0	140.0
30"		140.0	140.0	30"		140.0	140.0	30"		125.1	140.0
37"		140.0	140.0	37"		140.0	140.0	37"		101.5	140.0
42"		140.0	140.0	42"		140.0	140.0	42"		89.4	134.1
48"		140.0	140.0	48"		123.5	140.0	48"		78.2	117.3
54"		140.0	140.0	54"		109.8	140.0	54"		69.5	104.3
60"		140.0	140.0	60"		98.8	140.0	60"		62.6	93.8
66"	50-5/8"	140.0	140.0	66"	84"	89.8	134.7	66"	132"	56.9	85.3
72"		140.0	140.0	72"		82.3	123.5	72"		52.1	78.2
19-1/8"		140.0	140.0	19-1/8"		140.0	140.0	19-1/8"		140.0	140.0
26-1/2"		140.0	140.0	26-1/2"		140.0	140.0	26-1/2"		128.8	140.0
30"		140.0	140.0	30"		140.0	140.0	30"		113.8	140.0
37"		140.0	140.0	37"		140.0	140.0	37"		92.2	138.3
42"		140.0	140.0	42"		127.7	140.0	42"		81.3	121.9
48"		140.0	140.0	48"		111.7	140.0	48"		71.1	106.6
54"	63"	140.0	140.0	54"	96"	99.3	140.0	54"	144"	63.2	94.8
60"		140.0	140.0	60"		89.4	134.1	60"		56.9	85.3
66"		134.8	140.0	66"		81.3	121.9	66"		51.7	77.6
72"		123.6	140.0	72"		74.5	111.7	72"		47.4	71.1
19-1/8"		140.0	140.0	19-1/8"		140.0	140.0	19-1/8"		140.0	140.0
26-1/2"		140.0	140.0	26-1/2"		140.0	140.0	26-1/2"		118.1	140.0
30"		140.0	140.0	30"		140.0	140.0	30"		104.3	140.0
37"		140.0	140.0	37"		126.8	140.0	37"		84.6	126.8
42"	74-1/4"	140.0	140.0	42"	108"	111.7	140.0	42"		74.5	111.7
48"		140.0	140.0	48"		97.8	140.0	48"		65.2	97.8
54"		132.4	140.0	54"		86.9	130.3	54"		57.9	86.9
60"		119.2	140.0	60"		78.2	117.3				
66"		108.3	140.0	66"		71.1	106.6				
72"		99.3	140.0	72"		65.2	97.8				
19-1/8"		140.0	140.0	19-1/8"		140.0	140.0				
26-1/2"		140.0	140.0	26-1/2"		140.0	140.0				
30"		140.0	140.0	30"		139.0	140.0				
37"		140.0	140.0	37"		112.7	140.0				
42"		140.0	140.0	42"		99.3	140.0				
48"		126.4	140.0	48"		86.9	130.3				
54"		112.4	140.0	54"		77.2	115.9				
60"		101.1	140.0	60"		69.5	104.3				
66"		91.9	137.9	66"		63.2	94.8				
72"		84.3	126.4	72"		57.9	86.9				

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

NOTE:
ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER LOCATIONS
AT HEAD, SILL OR JAMB ENDS.
SEE SHEET 14 FOR ANCHOR DETAILS.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

TYPICAL ANCHORS:

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

C6: DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

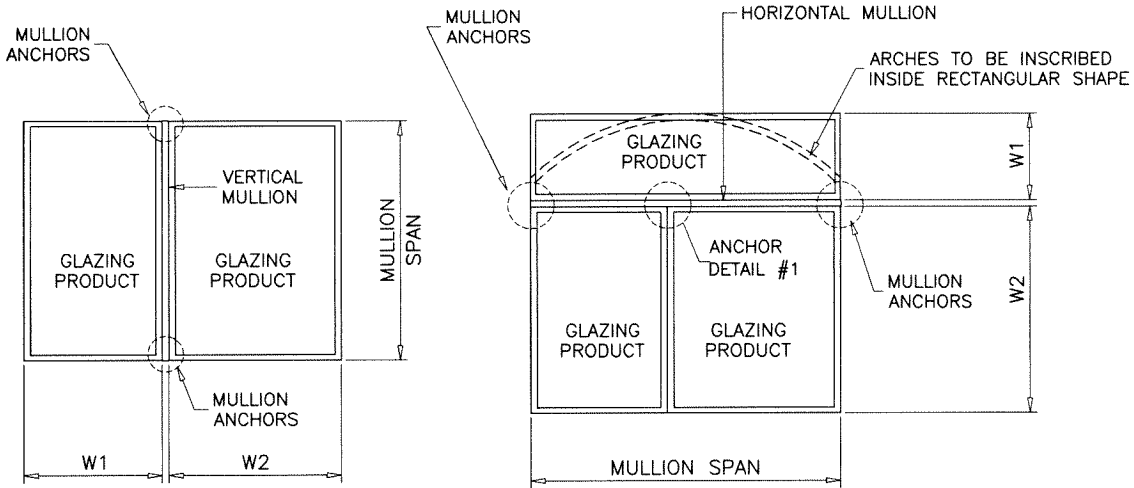
M6: INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

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

ANCHORS CL TO CL DISTANCE = 2-1/2" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.



TYPICAL MULLION ARRANGEMENTS

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

Sealed: 9/1/2026



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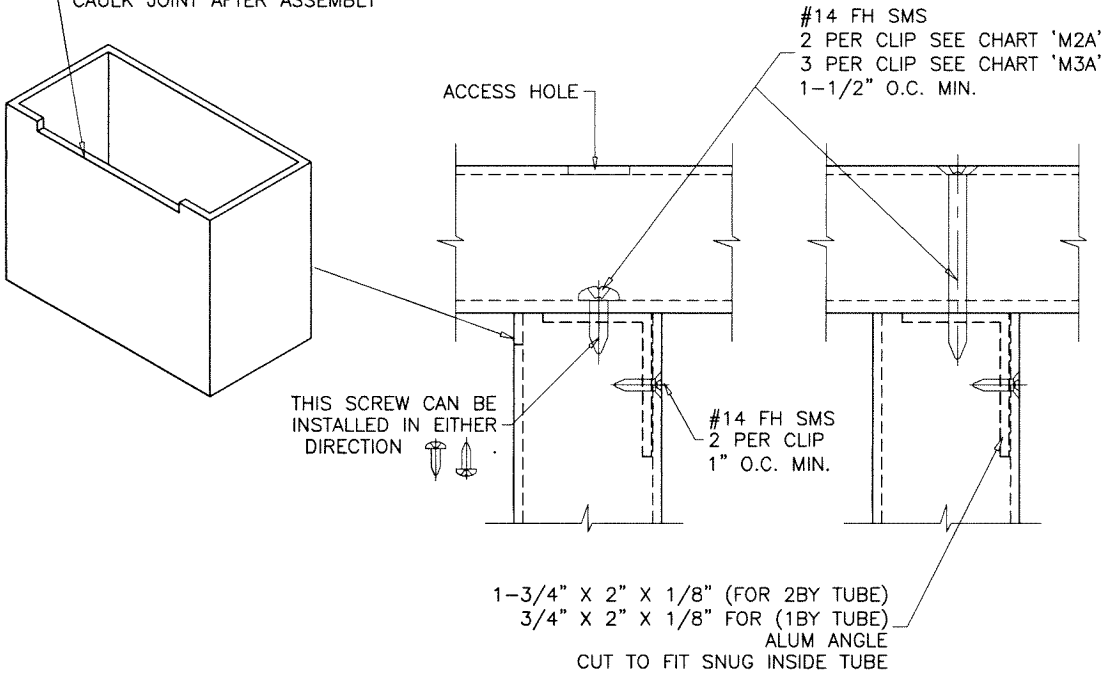
revisions:
no date by description
11-12-19
scale: -
dr. by: TARIQ
chk. by:
drawing no.
19-119F
sheet 15 of 16

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHORS TYPE	
WIDTH (W)	MULL SPAN	M2A	M3A
19-1/8"	38-3/8"	140.0	140.0
26-1/2"		140.0	140.0
30"		140.0	140.0
37"		140.0	140.0
42"		139.7	140.0
48"		122.3	140.0
54"		108.7	140.0
60"		97.8	140.0
66"	50-5/8"	88.9	133.4
72"		81.4	122.3
19-1/8"		140.0	140.0
26-1/2"		140.0	140.0
30"		140.0	140.0
37"		120.2	140.0
42"		105.9	140.0
48"		92.7	139.0
54"		82.4	123.6
60"		74.1	111.2
66"	63"	67.4	101.1
72"		61.8	92.7
19-1/8"		140.0	140.0
26-1/2"		134.9	140.0
30"		119.2	140.0
37"		96.6	140.0
42"		85.1	127.7
48"		74.5	111.7
54"	74-1/4"	66.2	99.3
60"		59.6	89.4
66"		54.2	81.2
72"		49.7	74.5
19-1/8"		140.0	140.0
26-1/2"		114.5	140.0
30"		101.1	140.0
37"		82.0	123.0

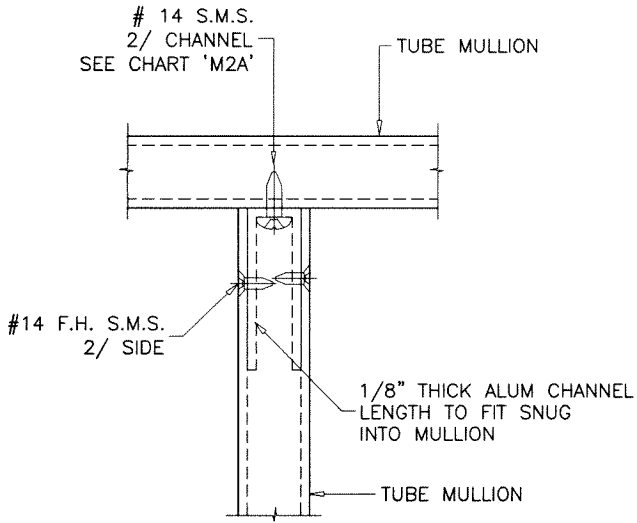
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHORS TYPE	
WIDTH (W)	MULL SPAN	M2A	M3A
19-1/8"	76"	140.0	140.0
26-1/2"		111.8	140.0
30"		98.8	140.0
37"		80.1	120.1
42"		70.6	105.8
48"		61.7	92.6
54"		54.9	82.3
60"		49.4	74.1
66"	84"	44.9	67.3
72"		41.2	61.7
19-1/8"		140.0	140.0
26-1/2"		101.2	140.0
30"		89.4	134.1
37"		72.5	108.7
42"		63.8	95.8
48"		55.9	83.8
54"	96"	49.7	74.5
60"		44.7	67.0
66"		40.6	60.9
72"		37.2	55.9
19-1/8"		122.7	140.0
26-1/2"		88.5	132.8
30"		78.2	117.3
37"		63.4	95.1
42"	108"	55.9	83.8
48"		48.9	73.3
54"		43.4	65.2
60"		39.1	58.7
66"		35.5	53.3
72"		32.6	48.9
19-1/8"		109.0	140.0
26-1/2"		78.7	118.0
30"		69.5	104.3
37"		56.4	84.5
42"		49.7	74.5
48"		43.4	65.2
54"		38.6	57.9
60"		34.8	52.1
66"		31.6	47.4
72"		29.0	43.4

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHORS TYPE	
WIDTH (W)	MULL SPAN	M2A	M3A
19-1/8"	120"	98.1	140.0
26-1/2"		70.8	106.2
30"		62.6	93.8
37"		50.7	76.1
42"		44.7	67.0
48"		39.1	58.7
54"		34.8	52.1
60"		31.3	46.9
66"	132"	28.4	42.7
72"		26.1	39.1
19-1/8"		89.2	133.8
26-1/2"		64.4	96.6
30"		56.9	85.3
37"		46.1	69.2
42"		40.6	60.9
48"		35.5	53.3
54"	144"	31.6	47.4
60"		28.4	42.7
66"		25.9	38.8
72"		23.7	35.5
19-1/8"		81.8	122.7
26-1/2"		59.0	88.5
30"		52.1	78.2
37"		42.3	63.4
42"		37.2	55.9
48"		32.5	48.9
54"		29.0	43.4
60"		26.0	39.1
66"		23.7	35.5

TUBES MAY BE NOTCHED AS SHOWN TO ALLOW INSTALLATION OF CLIP ANGLE
CAULK JOINT AFTER ASSEMBLY



ANCHOR DETAIL #1
METAL TO METAL CONNECTION



Sealed: 9/1/2026

FL #31169

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 262-6978 FAX. (305) 262-8100

EXTRUDED ALUMINUM TUBE MULLIONS

Sunshine Windows Manufacturing, Inc.
 1785 West 33rd Place
 Hialeah, FL 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:	no	date	by	description

date: 11-12-19
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
19-119F
 sheet 16 of 16