

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 & 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 2020 (7TH EDITION)/2023 (8TH 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.

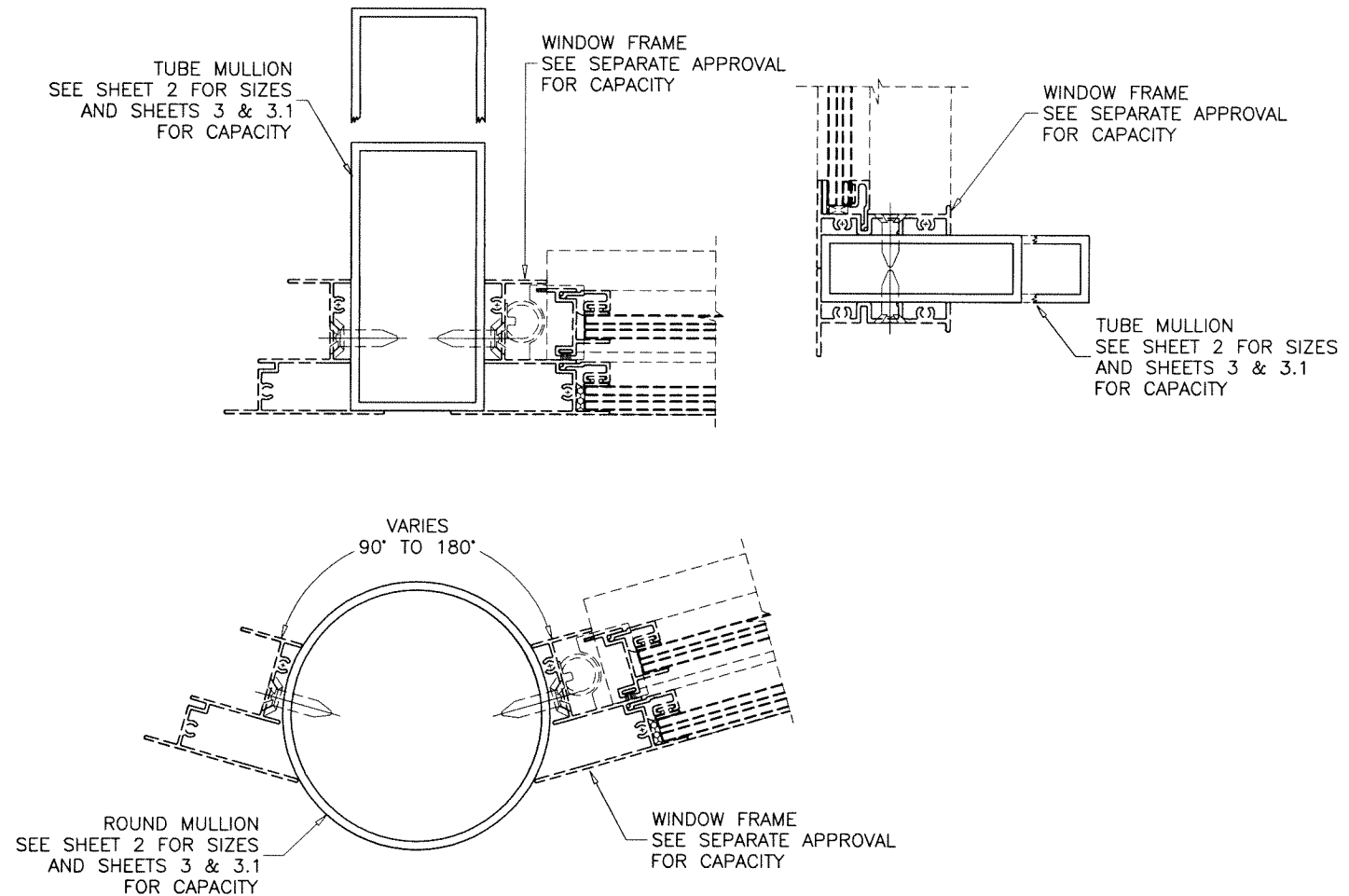
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2020/2023 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

Sealed: 7/26/2023

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

af c
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

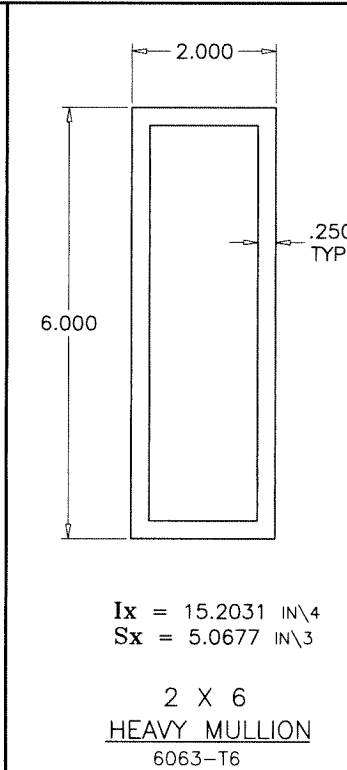
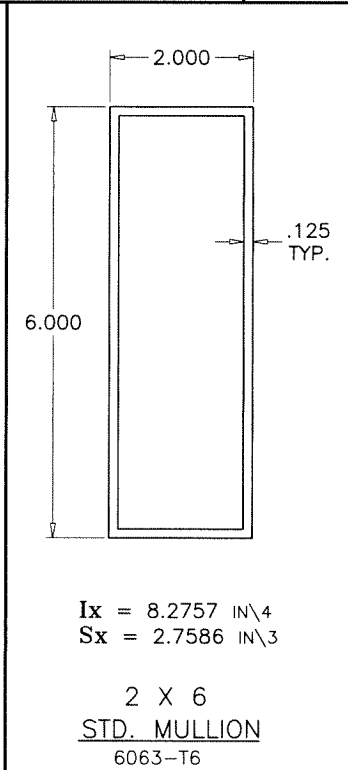
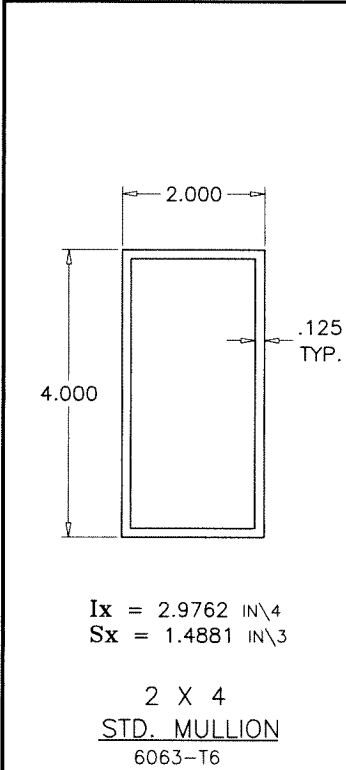
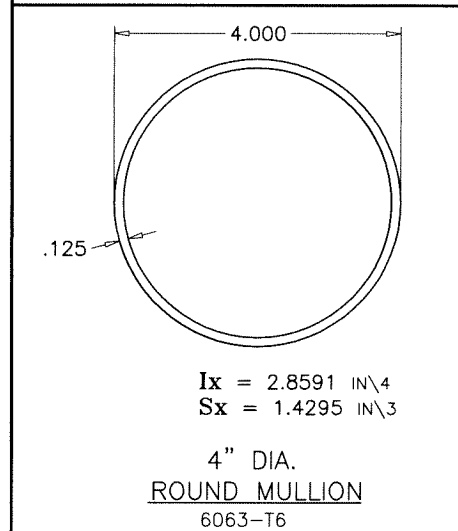
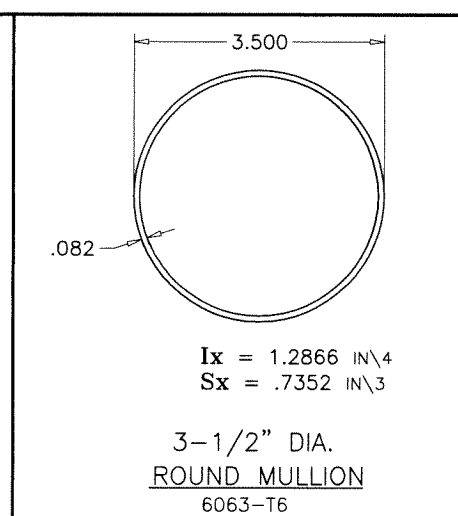
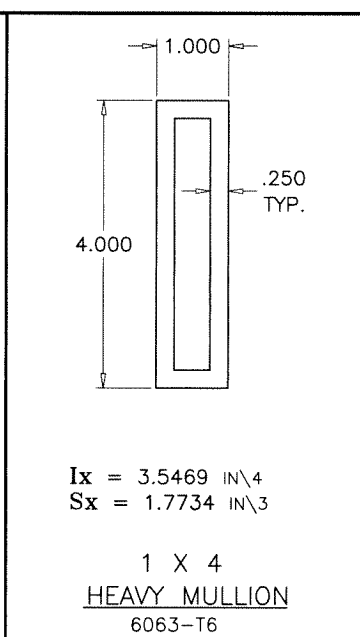
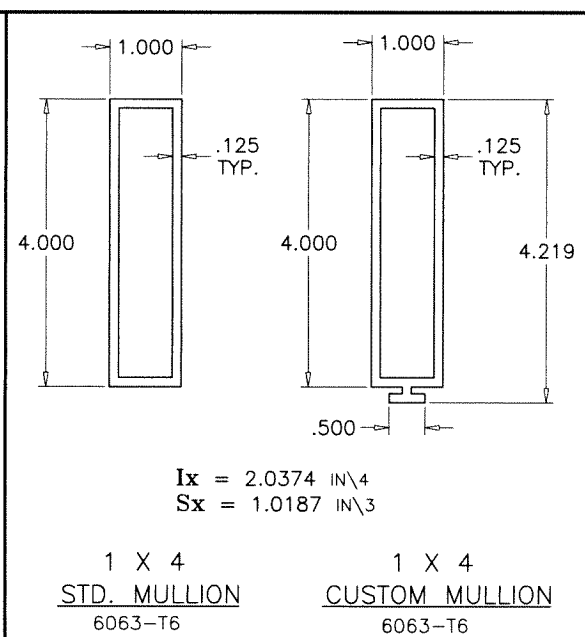
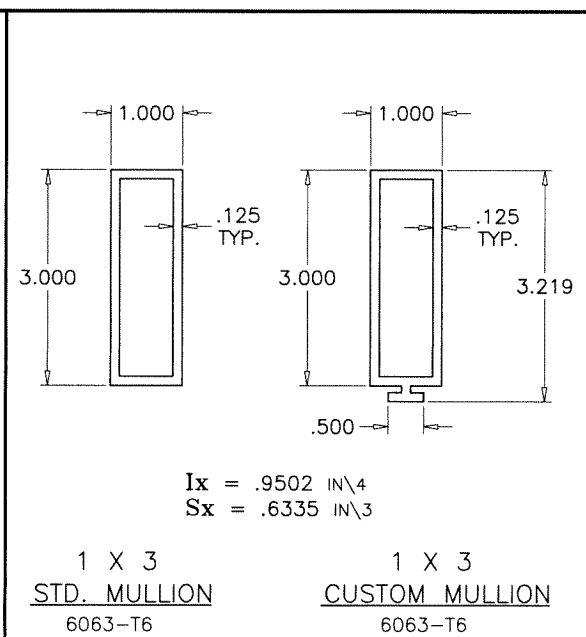
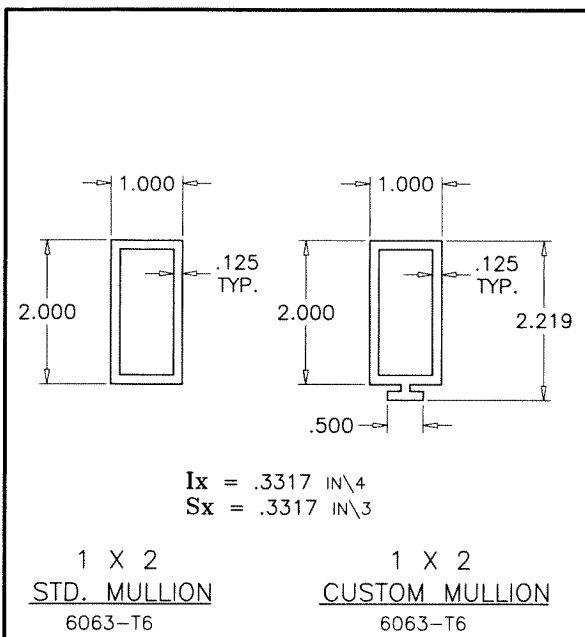
EXTRUDED ALUMINUM TUBE MULLIONS

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

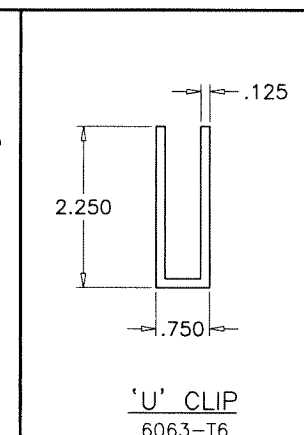
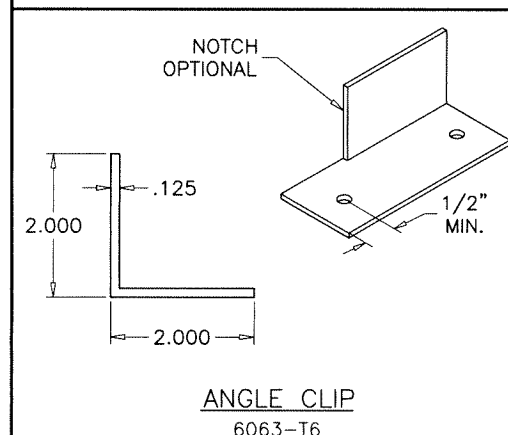
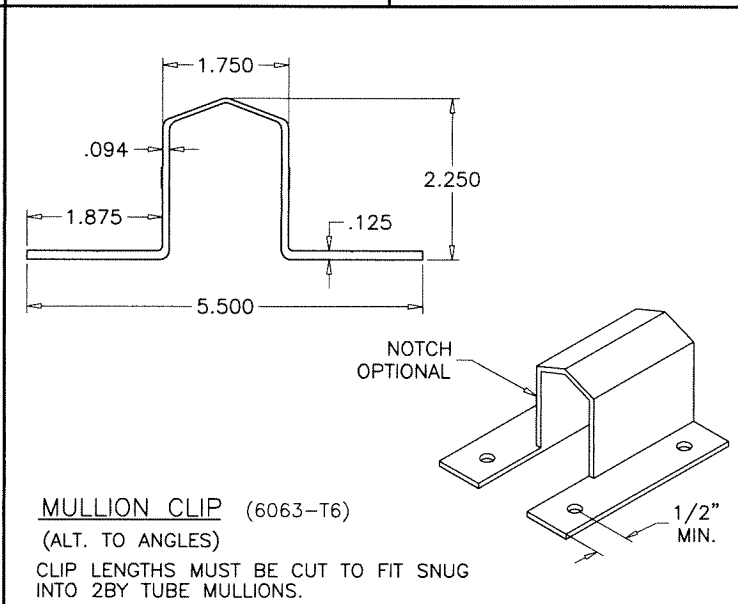
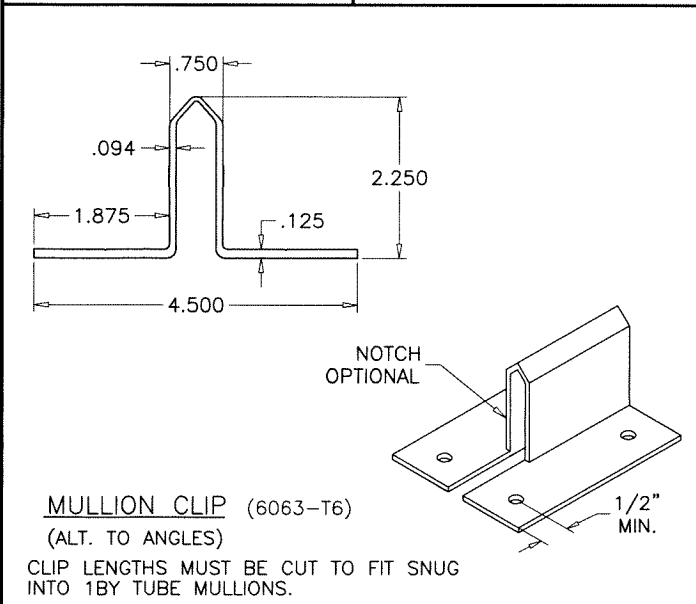
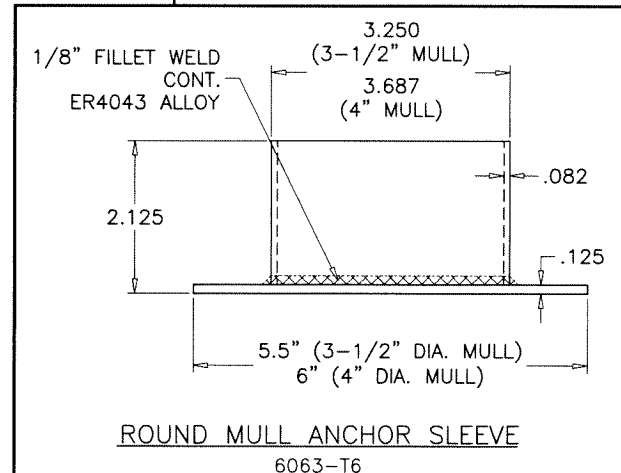
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					UPDATED TO 2023 FBC
B	07.21.23	2			

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

drawing no.
19-119F
sheet 1 of 16



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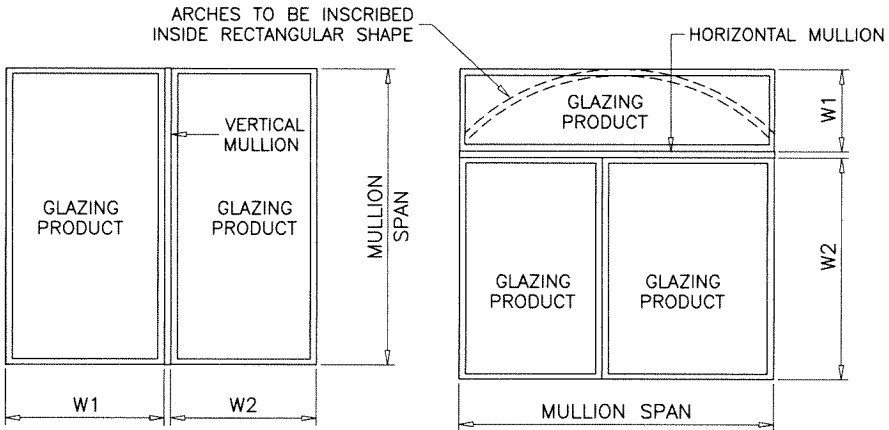
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sheet 2 of 16

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"		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"	50-5/8"	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"		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"	63"	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"		-	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"	74-1/4"	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"		-	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"	76"	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"		-	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"		-	-	32.3	55.2	47.2	88.6	140.0
72"		-	-	29.6	50.6	43.3	81.2	140.0
19-1/8"	96"	-	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"		-	-	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"	108"	-	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"		-	-	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"	120"	-	-	38.3	66.6	55.9	140.0	140.0
26-1/2"		-	-	27.6	48.1	40.3	104.6	140.0
30"		-	-	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"	132"	-	-	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"		-	-	-	-	-	33.8	60.5
72"		-	-	-	-	-	31.0	55.5
19-1/8"	144"	-	-	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



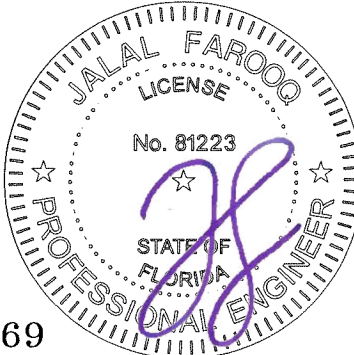
TYPICAL MULLION ARRANGEMENTS

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

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

Sealed: 7/26/2023

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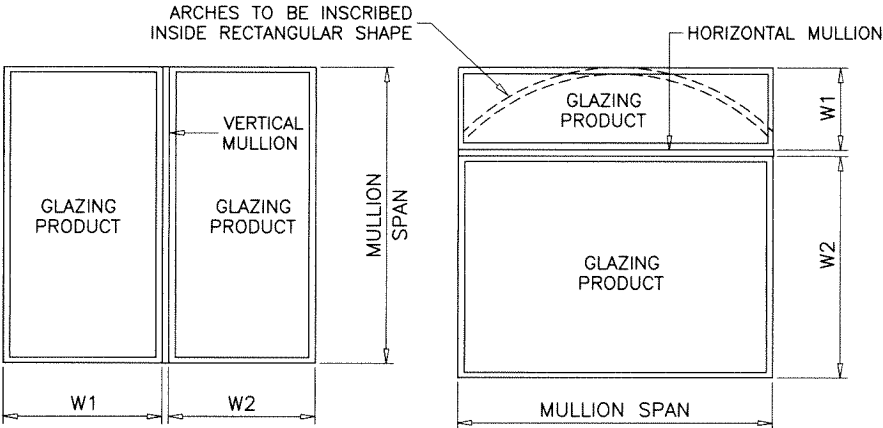
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revisions:
no date by description

date: 11-12-19 scale: - dr. by: TARIQ chn. 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"	63"	87.3	140.0
60"		78.5	140.0
66"		71.4	137.6
72"		65.4	126.1
19-1/8"		140.0	140.0
26-1/2"		114.0	140.0
30"		100.7	140.0
37"		81.6	140.0
42"	74-1/4"	71.9	138.4
48"		62.9	121.1
54"		55.9	107.7
60"		50.3	96.9
66"		45.8	88.1
72"		42.0	80.8
19-1/8"		102.0	140.0
26-1/2"		73.6	140.0
30"	76"	65.0	138.6
37"		52.7	112.3
42"		46.4	99.0
48"		40.6	86.6
54"		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

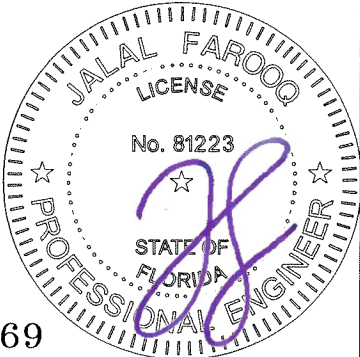
WIDTH (W) = $\frac{W1 + W2}{2}$

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

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

Sealed: 7/26/2023

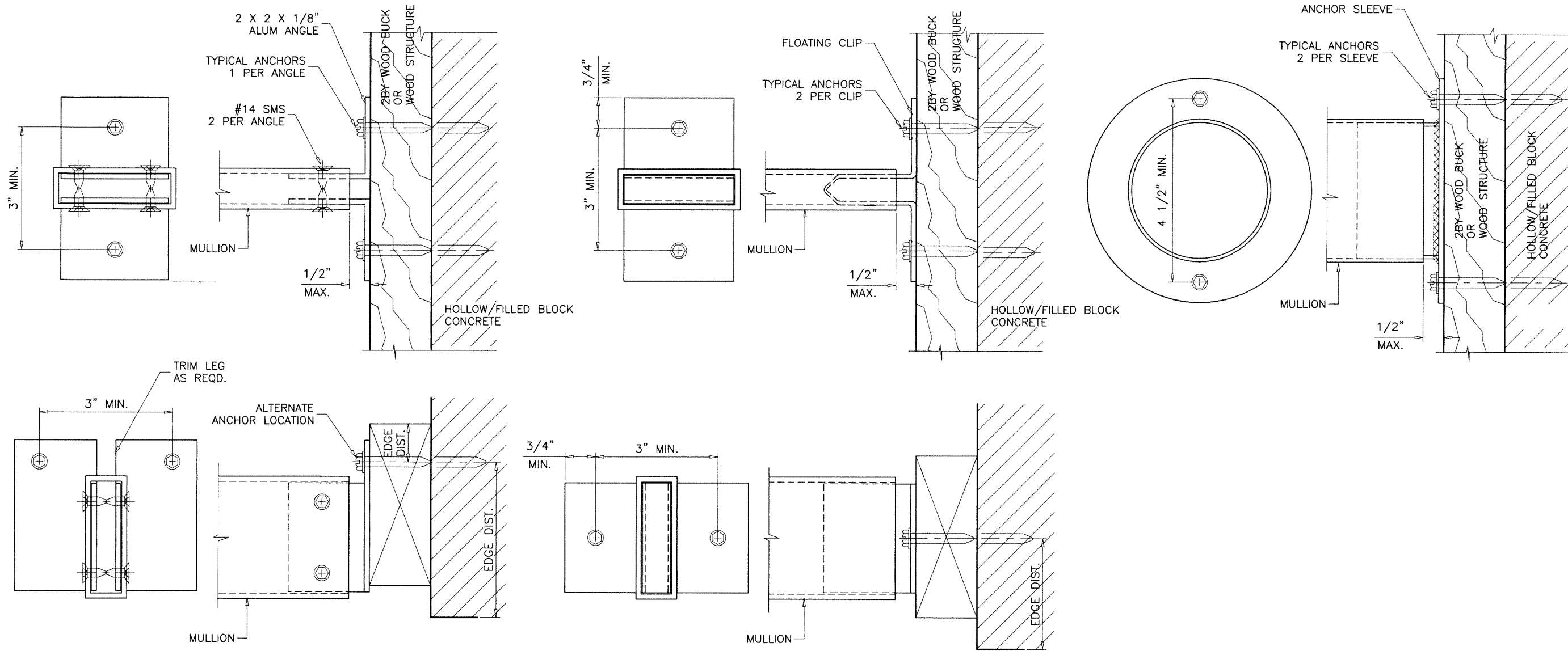
FL #31169



af c
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

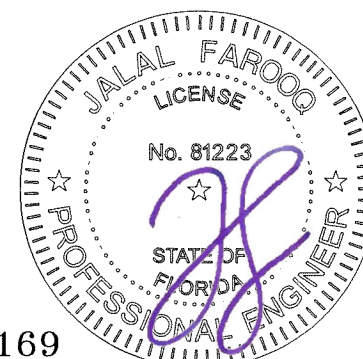
revisions:
no date by description
11-12-19
scale: -
dr. by: TARIQ
chk. by:
drawing no.
19-119F
sheet 4 of 16



TYPICAL ANCHORS TYPE 'W2'

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

SEE SHEET 7 FOR ANCHOR CAPACITIES



Sealed: 7/26/2023

FL #31169

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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af c
(C.A.N. 3538)
MULLION 19-119F-SWM

EXTRUDED ALUMINUM TUBE MULLIONS

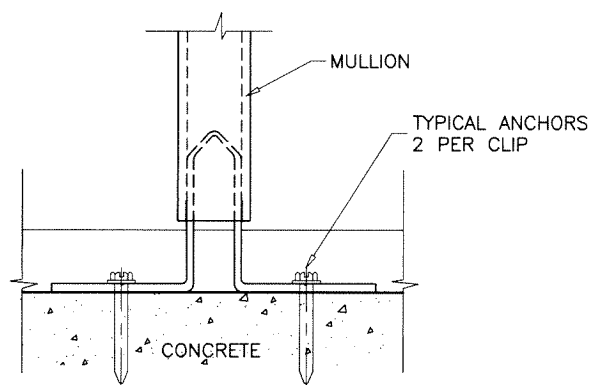
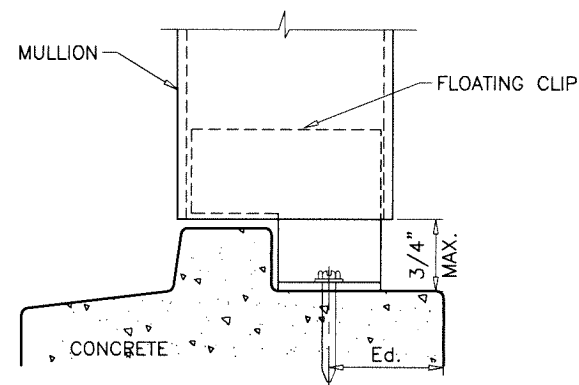
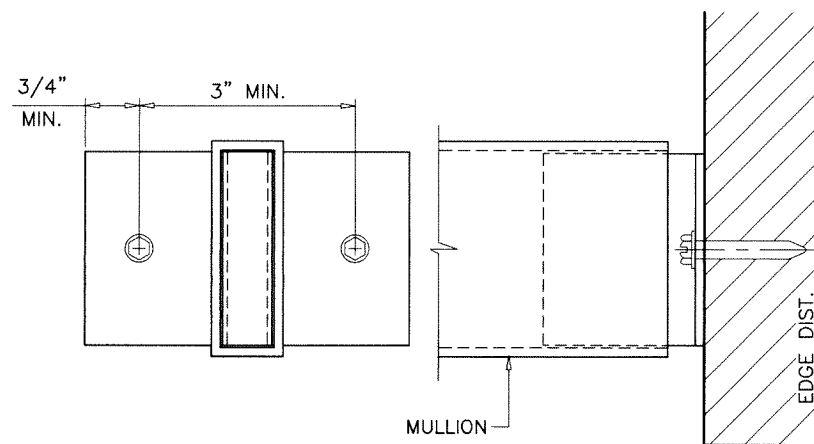
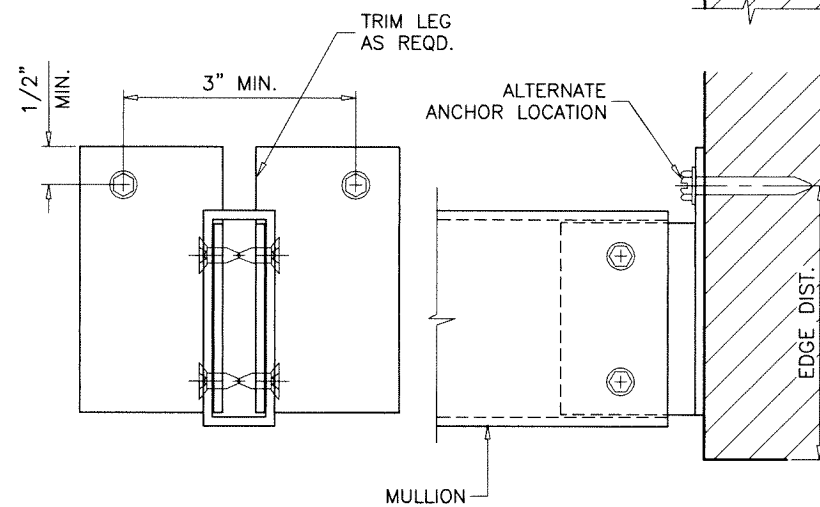
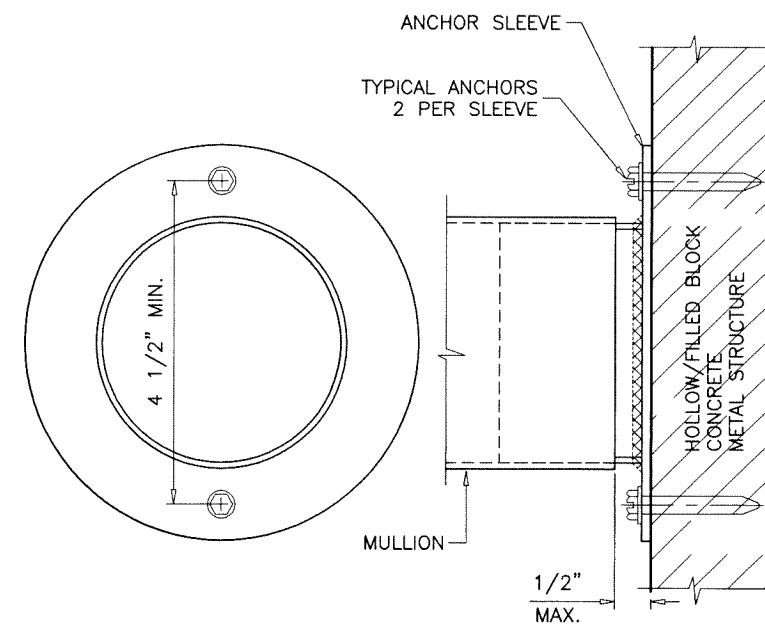
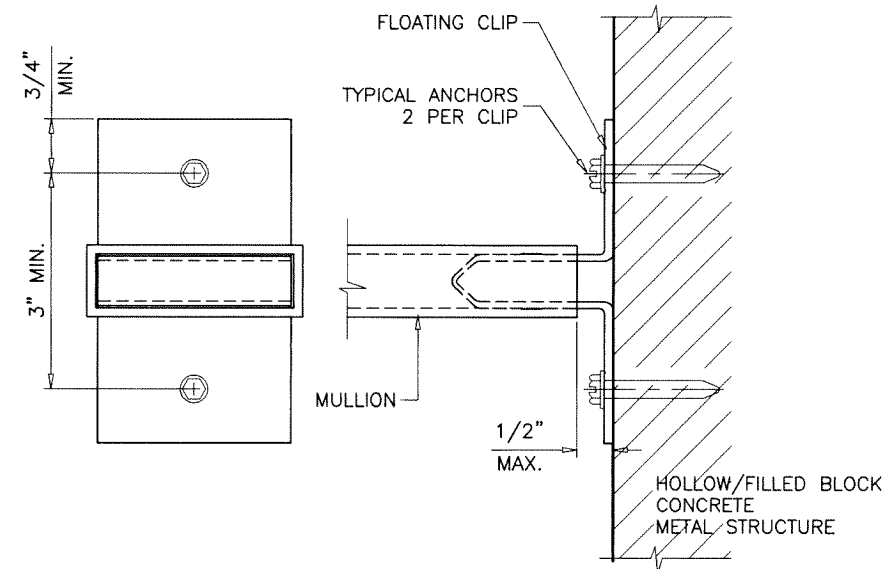
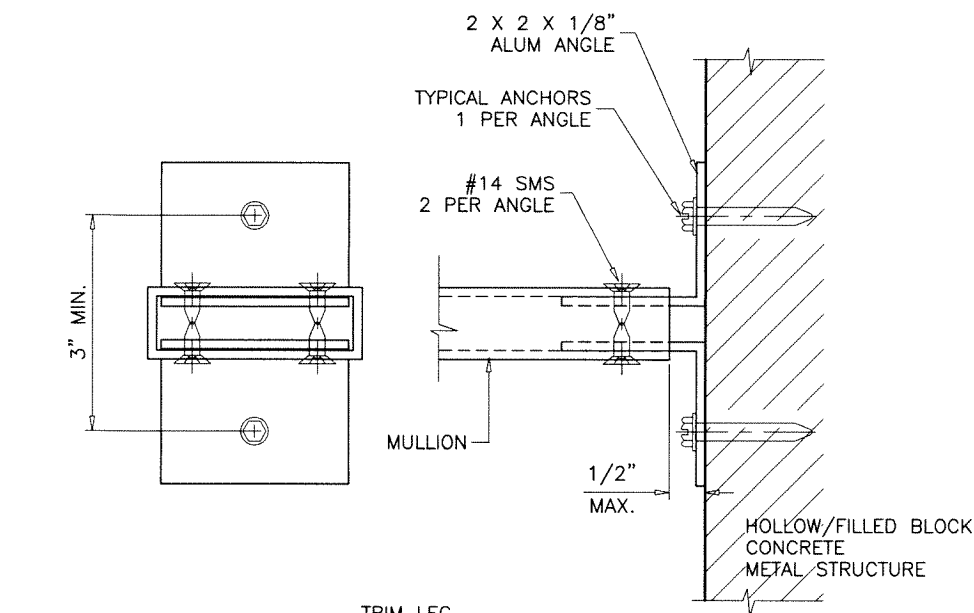
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:

no	date	description

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

drawing no.
19-119F
sheet 5 of 16



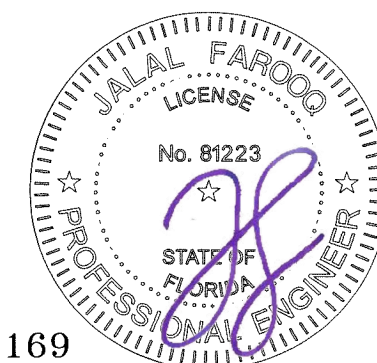
TYPICAL ANCHORS TYPE 'B2', 'C2', 'M2'

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

SEE SHEET 7 FOR ANCHOR CAPACITIES

Sealed: 7/26/2023

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: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

19-119F

sheet 6 of 16

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"	50-5/8"	60.0	34.1	63.4	88.9
72"		55.0	31.3	58.1	81.4
19-1/8"		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"	63"	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"		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"	74-1/4"	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"		107.1	60.8	113.0	140.0
26-1/2"		77.3	43.9	81.5	114.5
30"	76"	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"	84"	30.3	-	32.0	44.9
72"		27.8	-	29.3	41.2
19-1/8"		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"	96"	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"		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"	108"	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"		73.6	41.8	77.7	109.0
26-1/2"		53.1	30.2	56.1	78.7
30"	120"	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"	132"	-	-	20.3	28.4
72"		-	-	-	26.1
19-1/8"		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"	144"	21.3	-	22.5	31.6
60"		-	-	20.3	28.4
66"		-	-	-	25.9
72"		-	-	-	23.7
19-1/8"		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

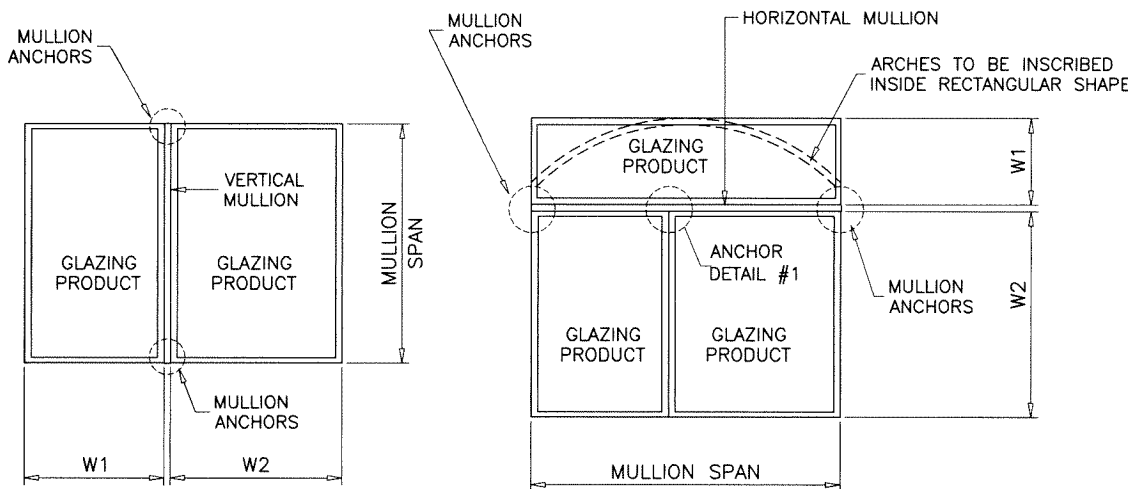
1/4" DIA. TEKS OR SELF DRILLING SCREWS

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

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

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

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

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

Sealed: 7/26/2023

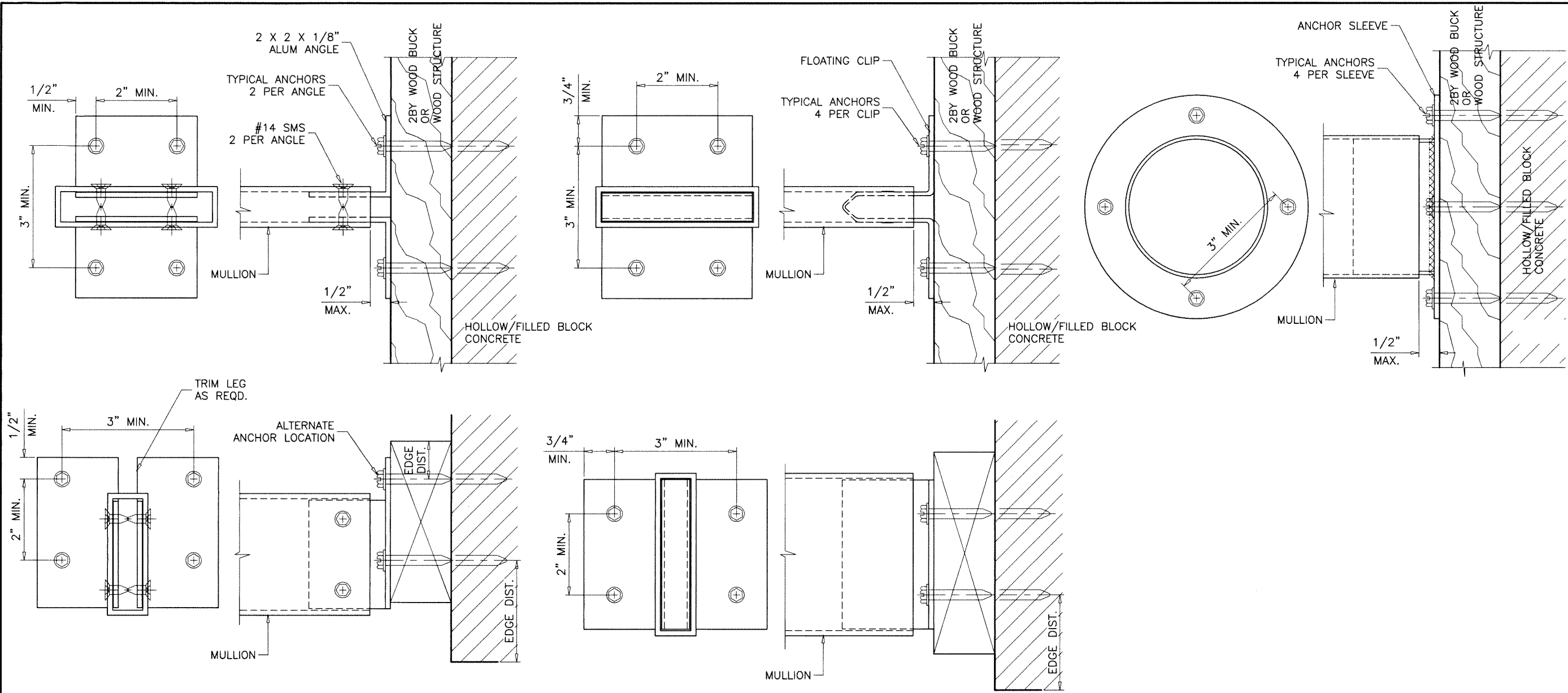
FL #31169



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)

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: 7/26/2023

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

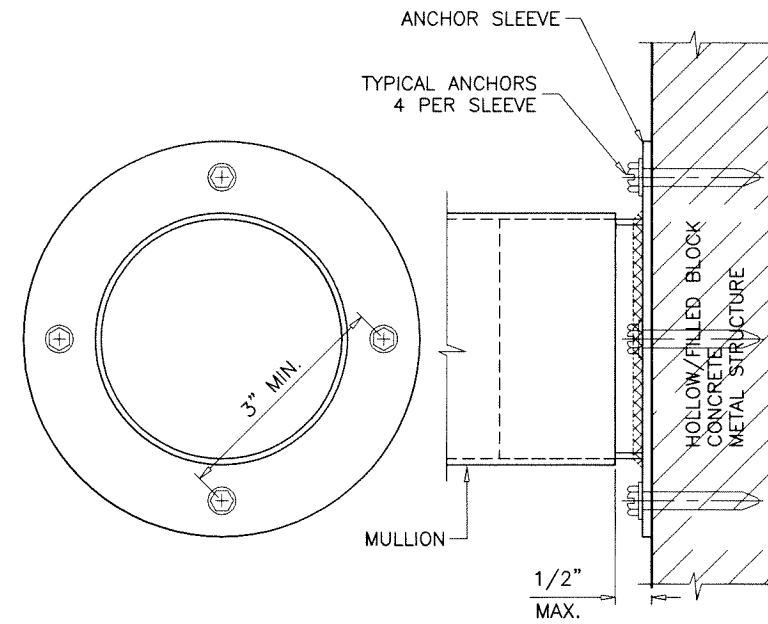
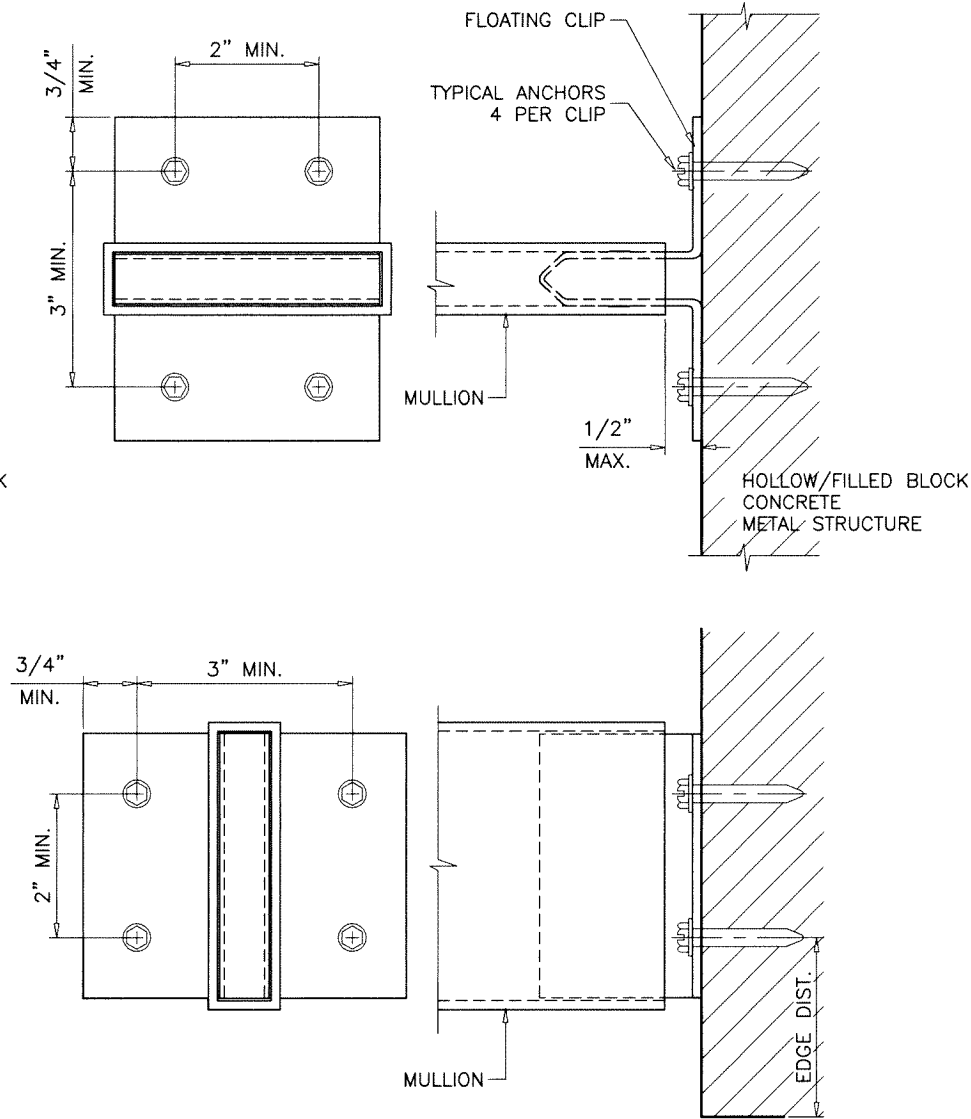
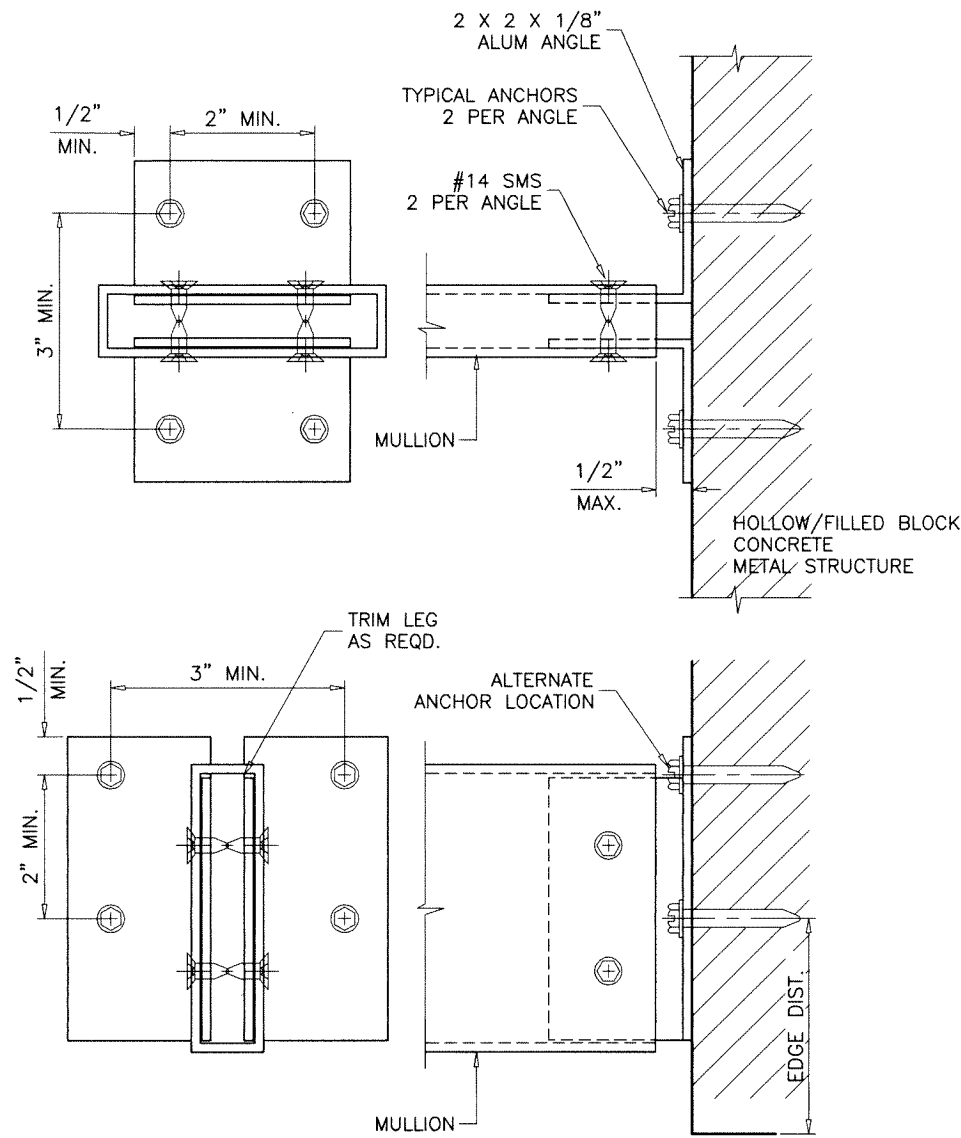
Sunshine Windows Manufacturing, Inc.
 1785 West 33rd Place
 Hialeah, FL. 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:

no	date	description

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

drawing no.
19-119F
 sheet 8 of 16



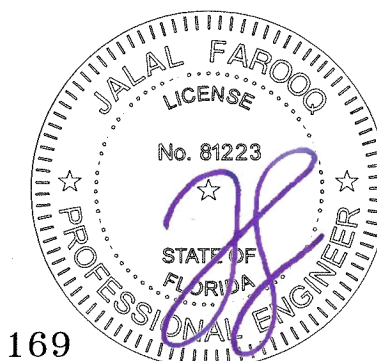
TYPICAL ANCHORS TYPE 'B4-2', 'C4-2', 'M4-2'

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

SEE SHEET 10 FOR ANCHOR CAPACITIES

Sealed: 7/26/2023

FL #31169



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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a f c
(C.A.N. 3538)
MULLION \ 19-119F-SWM

EXTRUDED ALUMINUM TUBE MULLIONS

Sunshine Windows Manufacturing, Inc.
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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 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)

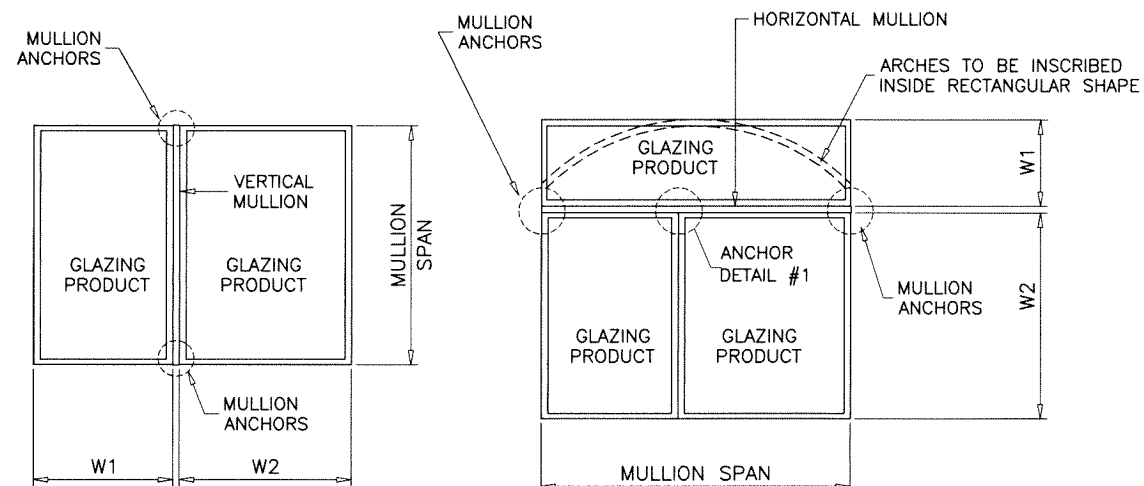
M4-2: INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

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

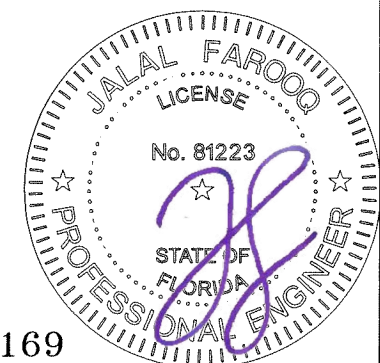
ALL LOADS ARE EXT.(+)/INT.(-).

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: 7/26/2023

FL #31169



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

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: -

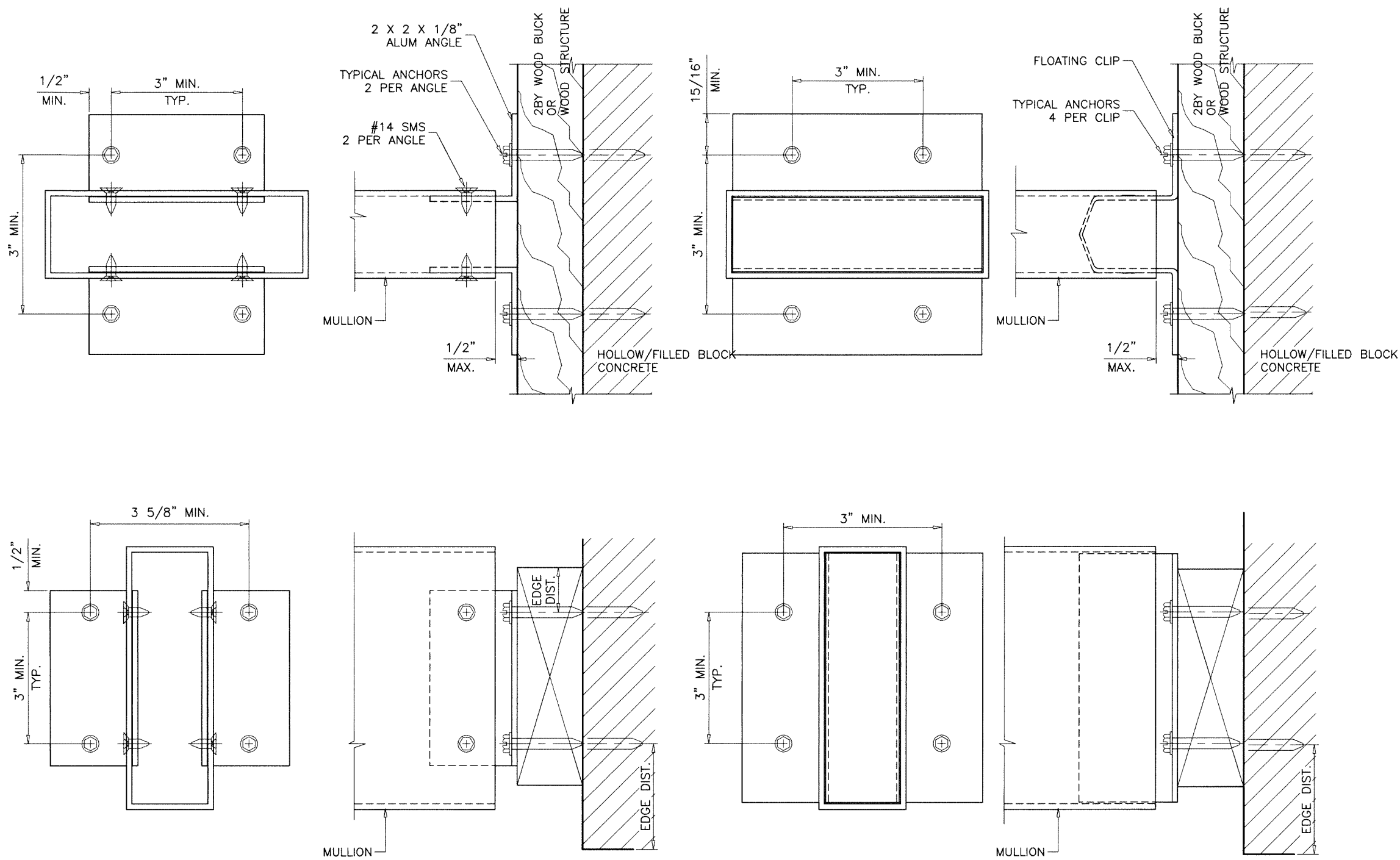
dr. by: TARIQ

chk. by:

drawing no.

19-119F

sheet 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



Sealed: 7/26/2023

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

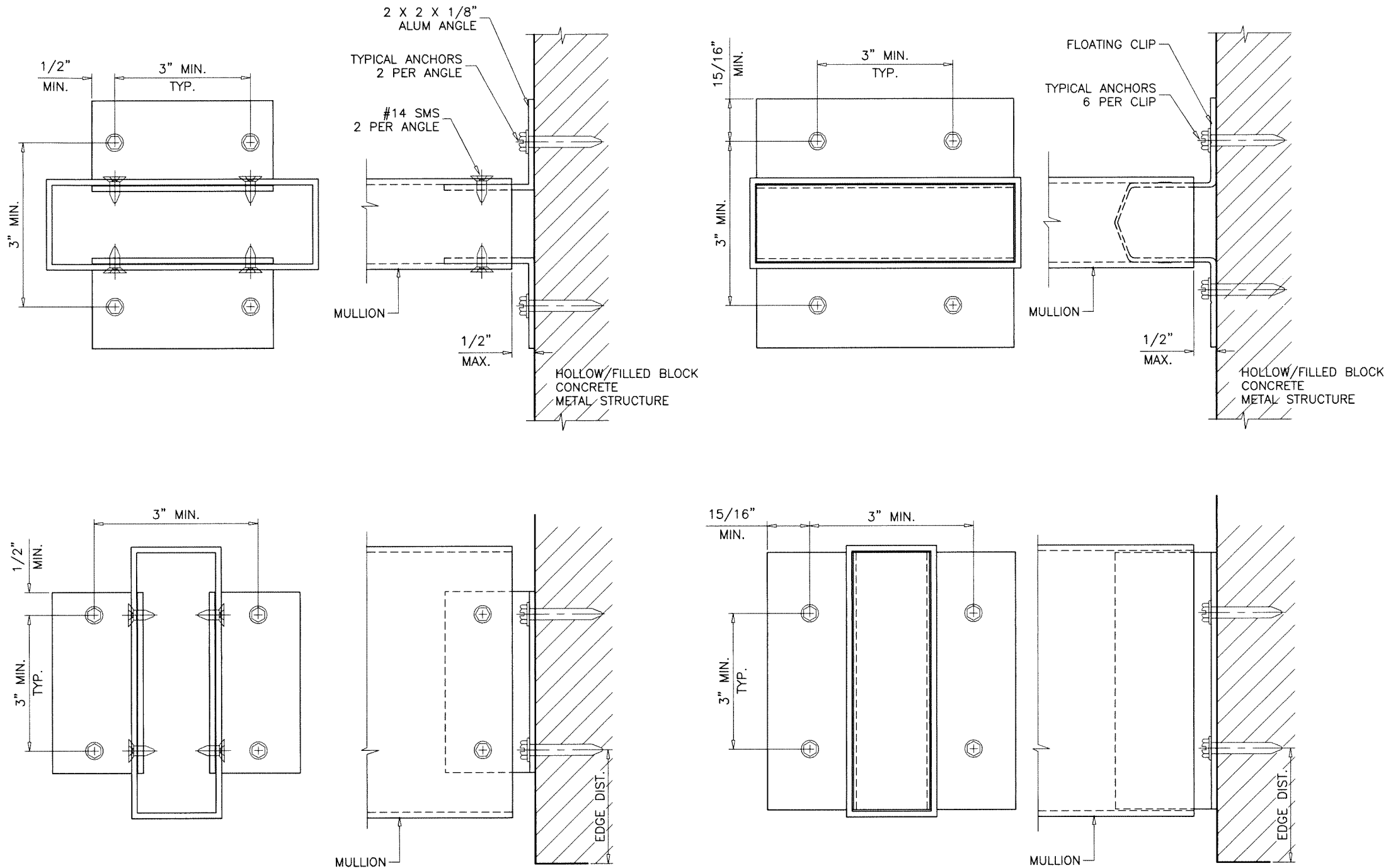
Sunshine Windows Manufacturing, Inc.
 1785 West 33rd Place
 Hialeah, FL. 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:

no	date	by description

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

drawing no.
19-119F
 sheet 11 of 16



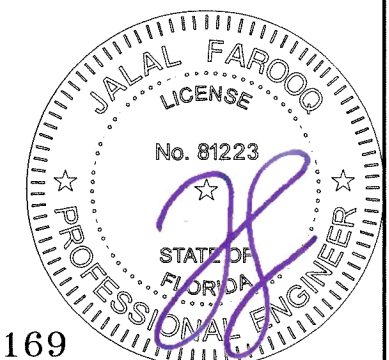
TYPICAL ANCHORS TYPE 'B4-3', 'C4-3'

DIRECTLY INTO HOLLOW/FILLED BLOCK
DIRECTLY INTO CONCRETE

SEE SHEET 13 FOR ANCHOR CAPACITIES

Sealed: 7/26/2023

FL #31169



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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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	date:	3/8" = 1"	scale:	TARIQ	dr. by:		chk. by:		
drawing no.		19-119F		sheet 12 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"		120.1	68.2	126.7
72"		110.1	62.5	116.1
19-1/8"	50-5/8"	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"		73.1	41.6	77.2
72"		67.0	38.1	70.7
19-1/8"	74-1/4"	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"		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"		60.6	34.4	64.0
72"		55.6	31.6	58.6
19-1/8"	84"	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"		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"	96"	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"		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"	108"	140.0	83.7	140.0
26-1/2"		106.3	60.4	112.1
30"		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"		38.4	21.8	40.5
72"		35.2	20.0	37.1
19-1/8"	132"	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"		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"	144"	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"		50.3	28.6	53.1
48"		44.0	25.0	46.4
54"		39.1	22.2	41.3

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)

TYPICAL ANCHORS:

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

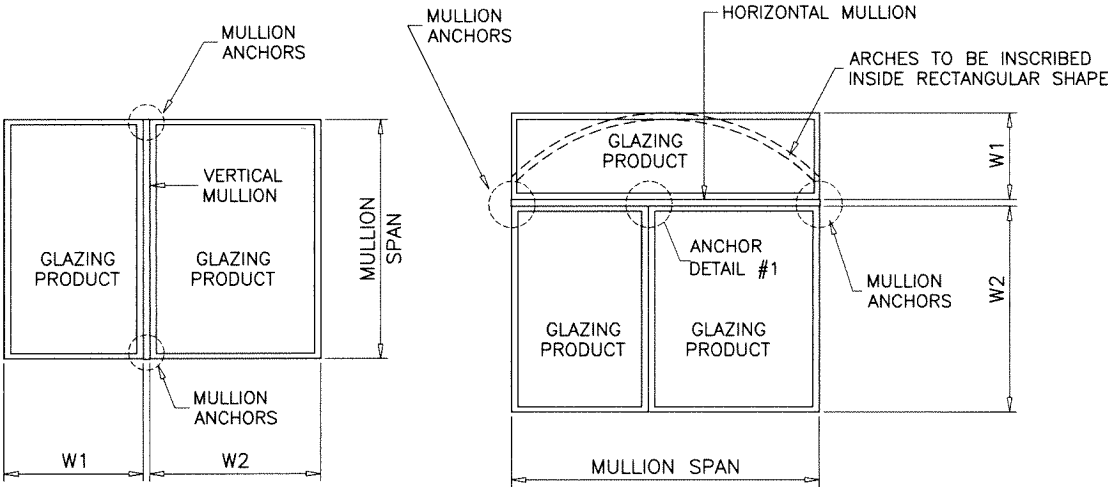
- W4-3: INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
- W4-3: THRU 1BY BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE
- B4-3: THRU 1BY BUCKS INTO BLOCKS OR DIRECTLY INTO BLOCKS
1-1/4" MIN. EMBED INTO BLOCK
- C4-3: DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

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) = $\frac{W1 + W2}{2}$



Sealed: 7/26/2023

FL #31169

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

EXTRUDED ALUMINUM TUBE MULLIONS

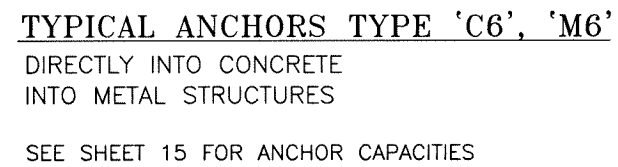
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:

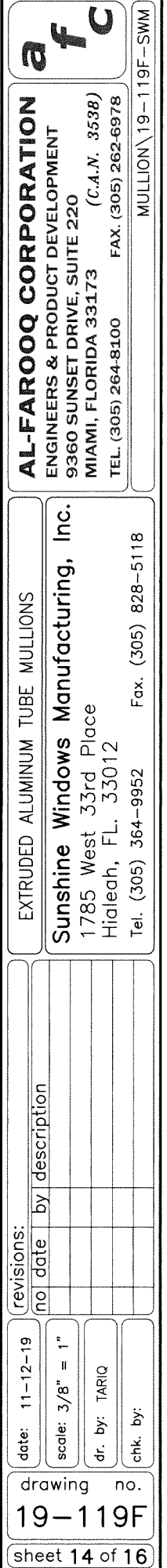
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date: 11-12-19
scale: -
dr. by: TARIQ
chk. by: -

drawing no.
19-119F
sheet 13 of 16



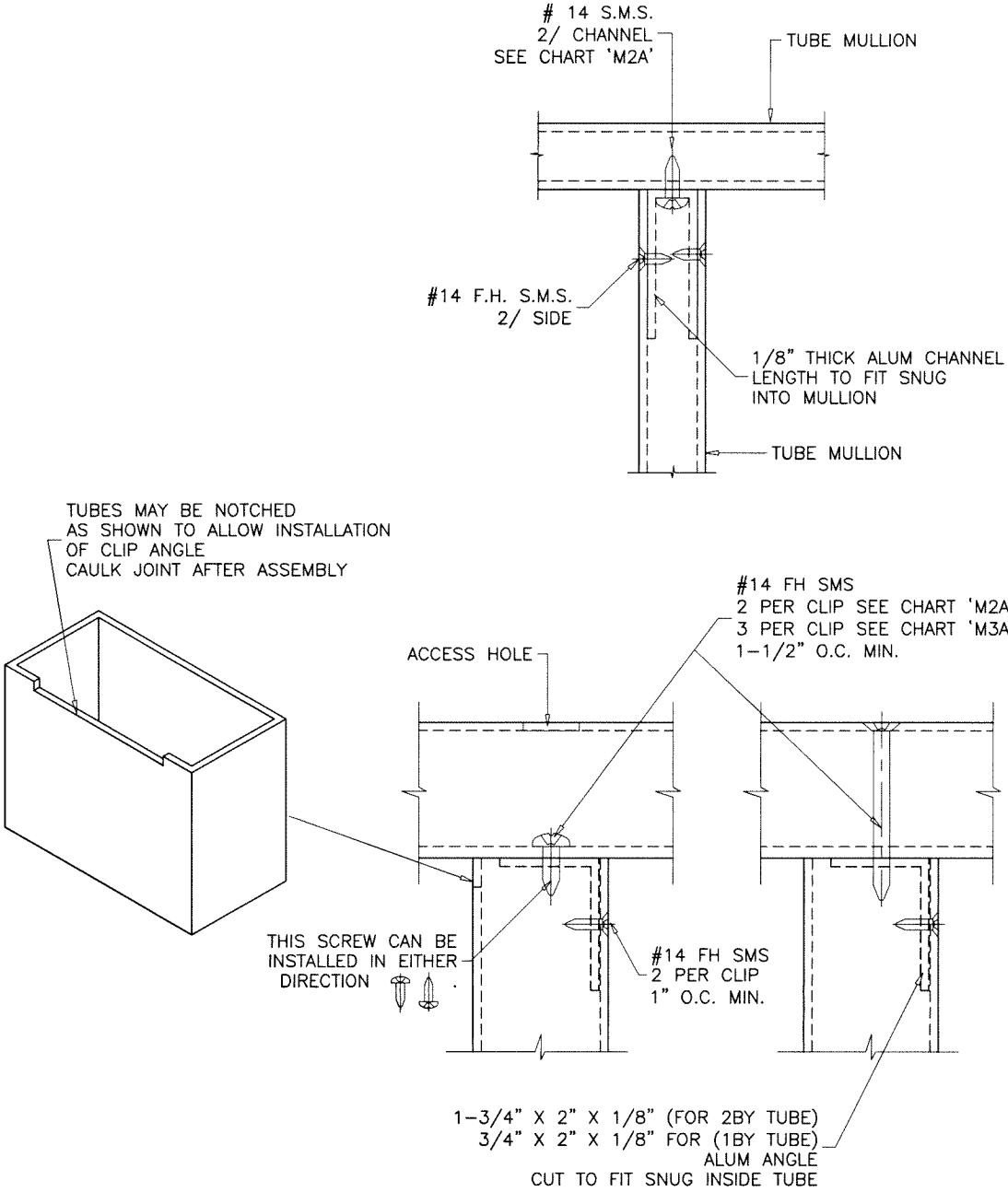
FL #31169



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"		88.9	133.4
72"		81.4	122.3
19-1/8"	50-5/8"	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"		67.4	101.1
72"		61.8	92.7
19-1/8"	63"	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"		66.2	99.3
60"		59.6	89.4
66"		54.2	81.2
72"		49.7	74.5
19-1/8"	74-1/4"	140.0	140.0
26-1/2"		114.5	140.0
30"		101.1	140.0
37"		82.0	123.0
42"		72.2	108.3
48"		63.2	94.8
54"		56.2	84.3
60"		50.6	75.8
66"		46.0	68.9
72"		42.1	63.2

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"		44.9	67.3
72"		41.2	61.7
19-1/8"	84"	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"		49.7	74.5
60"		44.7	67.0
66"		40.6	60.9
72"		37.2	55.9
19-1/8"	96"	122.7	140.0
26-1/2"		88.5	132.8
30"		78.2	117.3
37"		63.4	95.1
42"		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"	108"	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"		28.4	42.7
72"		26.1	39.1
19-1/8"	132"	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"		31.6	47.4
60"		28.4	42.7
66"		25.9	38.8
72"		23.7	35.5
19-1/8"	144"	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



ANCHOR DETAIL #1
METAL TO METAL CONNECTION

Sealed: 7/26/2023

FL #31169



AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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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 16 of 16